

Prince George's County Planning Department, MNCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPII-006-13				
	Approved by	Date	DRD #	Reason for Revision
00	Megan Reiser	4/25/2014	SDP-0805	
01	Megan Reiser	2/12/2015	SDP-0805-02	Add Water Line & Lot #s. Updated Approved Block
02				
03				
04				
05				
06				

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OFFICIAL USE ONLY**
QR label certifies that this plan
meets conditions of final approval
by the Planning Board, its designee
or the District Council.
**M-NCPPC
APPROVAL**



PROJECT NAME: KENWOOD VILLAGE
PROJECT NUMBER: SDP-0805-02
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revision numbers must be included in the Project Number

SCALE:	NTS
DATE:	12.12.13
DESIGN:	LET
DRAWN:	LET
REVIEWED:	LNG
PROJECT #:	11-0010.01
SHEET No:	

2
OF 10

KENWOOD VILLAGE
TYPE II TREE CONSERVATION PLAN
PLAN APPROVAL SHEET
[15TH] ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

APPLICANT / OWNERS:
THE WHITEHOUSE ROAD
LIMITED PARTNERSHIP
1615 M STREET, N.W.
SUITE 850
WASHINGTON D.C. 20036
(202) 429-6900

[illegible]

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS
OF SUBRS 11-25 AND 106 WOODLAND AND WILDLIFE
HABITAT CONSERVATION TECHNICAL MANUAL (2010).

[Signature] DATE *5/26/16*

KEVIN D. SANCHEZ, PRA 056042
ANIMATED DESIGN GROUP, LLC
10000 W. 10TH AVE., SUITE 1500
DENVER, COLORADO 80202
442-576-0020 | k.sanchez@adg.com

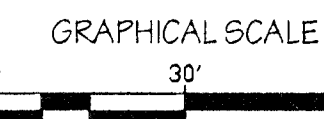
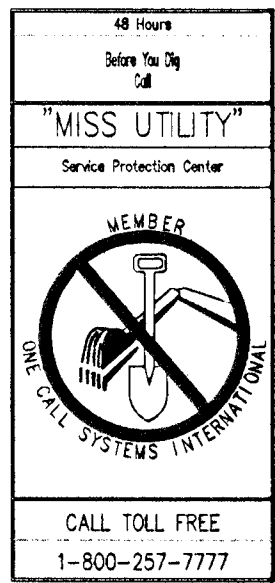
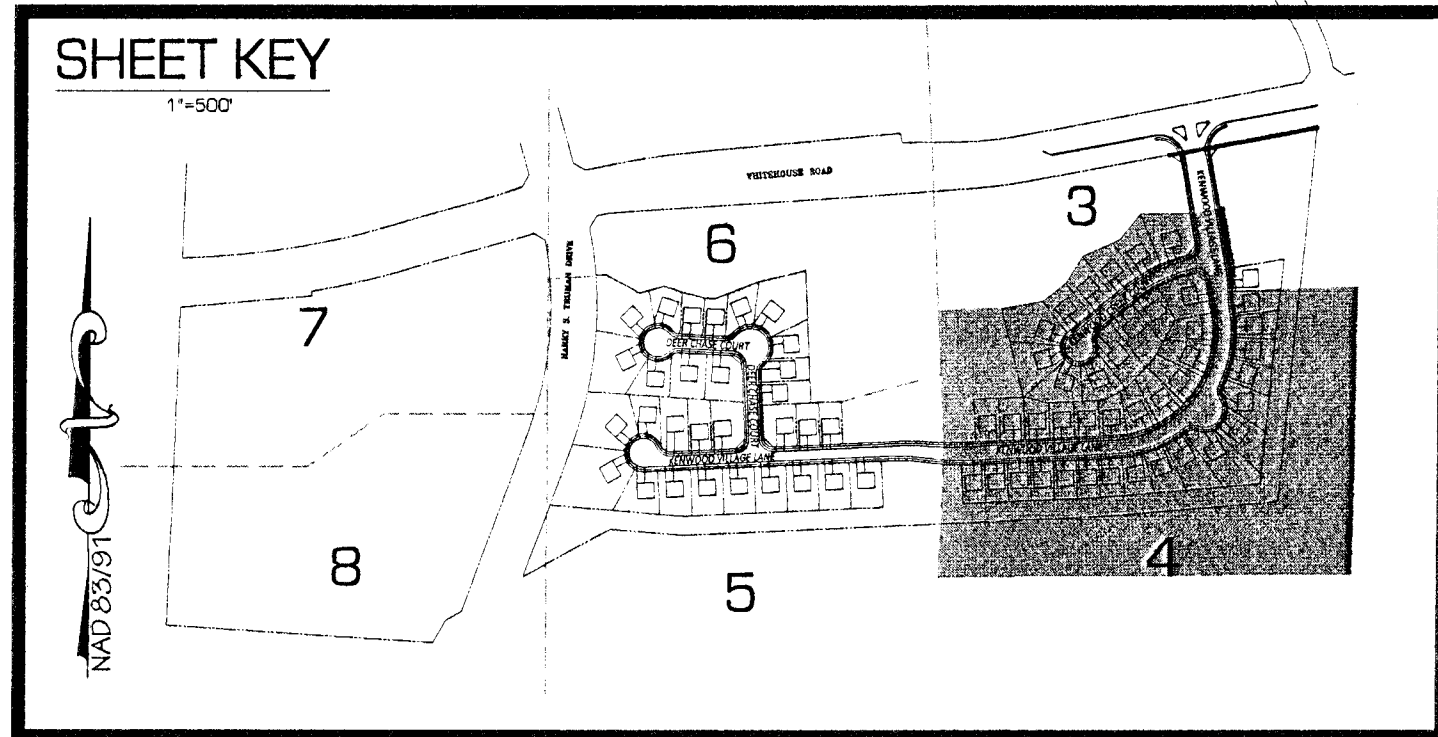
Axiom
Engineering Design

Civil Engineering • Land Surveying • Landscape Architecture • Land Planning

6590 Columbia Gateway Dr., Ste. 150 Columbia, Maryland 21046
www.axiomnc.com

Office: 443.276.6820
Fax: 443.276.6821
info@axiomnc.com

Lot Sheet 2 of 12 (2015), Last Printed 2/12/2015, 2:55 PM, Sheet 11, PROJECT: 11-001045 KENWOOD VILLAGE, ENGINEERING: DSR, 11/21/11, 10:01 AM, 10/19/15



MATCHLINE - FOR CONTINUATION SEE SHEET 3

MATCHLINE - FOR CONTINUATION SEE SHEET 3

MATCHLINE - FOR CONTINUATION SEE SHEET 5

MATCHLINE - FOR CONTINUATION SEE SHEET 5

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPH-006-13			
Approved by	Date	DRD #	Reason for Revision
00 Megan Reiser	4/25/2014	SDP-0805	
01 Megan Reiser	2/11/15	SDP-0805-02	Add Water Line & Lot #s. Updated Approved Block
02			
03			
04			
05			
06			

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M-NCPPC APPROVAL
PROJECT NAME: KENWOOD VILLAGE
PROJECT NUMBER: SDP-0805-02
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet
Revision numbers must be included in the Project Number

SCALE: 1" = 30'
DATE: 12.12.13
DESIGN: LET
DRAWN: LET
REVIEWED: LNG
PROJECT #: 11-0010101
SHEET No: 4 OF 10

Axiom Engineering Design
Civil Engineering • Land Surveying • Landscape Architecture • Land Planning
6590 Columbia Gateway Dr., Ste. 150 Columbia, Maryland 21046
www.axiom-ed.com
Office: 443.276.8220
Fax: 443.276.8221

THIS PLAN COMPLETES THE CURRENT REQUIREMENTS OF SUBMITTERS AND THE WOOD AND WILDLIFE HAVING CONSERVATION TECHNICAL MANUAL (COTM).

APPLICANT / OWNERS:
THE WHITEHOUSE ROAD
LIMITED PARTNERSHIP
1615 M STREET, N.W.
SUITE 850
WASHINGTON D.C. 20036
(202) 459-9800

REVISIONS

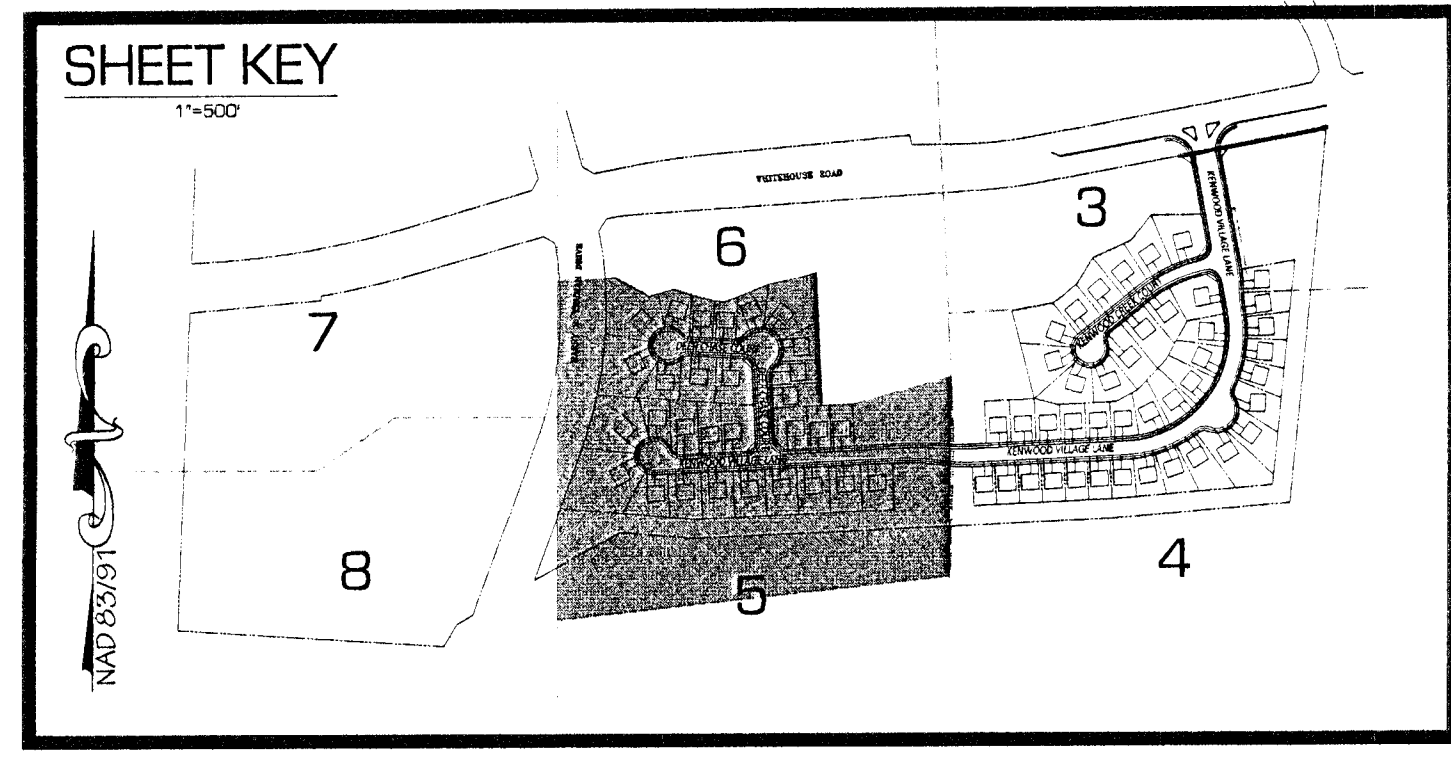
DATE	BY	REVISIONS
12/12/14WZ		ADD WATER LINE & REUSE 500 S. LOT AREAS

KENWOOD VILLAGE
TYPE II TREE CONSERVATION PLAN

(15TH) ELECTION DISTRICT
PRINCE GEORGES COUNTY, MARYLAND



LEGEND	
	EXISTING INTER CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED INTER CONTOUR
	PROPOSED INDEX CONTOUR
	EXISTING PROPERTY LINE
	PROPOSED RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING STREAM LINE
	STREAM BUFFER
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING CURB LINE
	EXISTING TREE LINE
	FLOODPLAIN
	25' FLOODPLAIN BUFFER
	EX. WETLANDS
	25' WETLAND BUFFER
	PRIMARY MANAGEMENT AREA
	PROPOSED LIMIT OF DISTURBANCE
	PROP. SIDEWALK
	5% STEEP SLOPES 15-25%
	5% STEEP SLOPES >25%
	GROUND LEVEL UNMITIGATED 65' ABA
	UPPER LEVEL UNMITIGATED 65' ABA

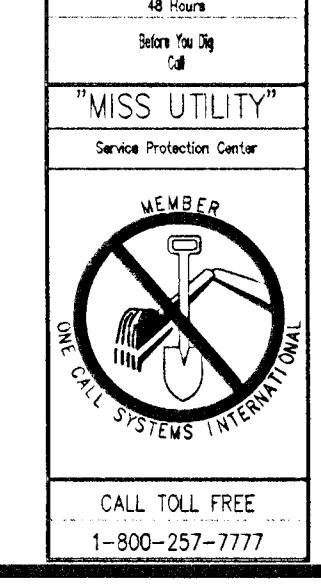


TREE CONSERVATION LEGEND	
	Off-Site Clearing
	Clearing in the Floodplain
	Preservation
	Afforestation/Reforestation
	Preserved but not Counted
	Specimen Tree with Critical Root Zone, to be saved
	Specimen Tree with Critical Root Zone, to be removed
	Preservation Area Sign
	Afforestation/Reforestation Area Sign
	Specimen Tree Sign
	Permanent Protection Fence
	Temporary Protection Fence

TCP AREAS	
Off-Site Clearing	
A1	0.02 Ac.
A2	0.05 Ac.
A3	0.27 Ac.
A4	0.04 Ac.
A5	0.04 Ac.
Clearing in the Floodplain	
B1	0.26 Ac.
B2	0.07 Ac.
B3	0.28 Ac.
B4	0.99 Ac.
B5	0.20 Ac.
B6	0.16 Ac.
B7	0.02 Ac.
B8	0.04 Ac.
B9	0.04 Ac.
B10	0.04 Ac. (off-site)
B11	0.02 Ac. (off-site)

Preservation	
C1	0.02 Ac.
C2	0.02 Ac.
C3	2.02 Ac.
C4	1.93 Ac.
C5	0.27 Ac.
C6	0.02 Ac.
C7	1.31 Ac.
C8	1.26 Ac.
C9	0.20 Ac.
C10	11.12 Ac.
Afforestation	
D1	2.34 Ac.
Reforestation	
E1	0.08 Ac.

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPH-006-13			
Approved by	Date	DRD #	Reason for Revision
00 Megan Reiser	4/25/2014	SDP-0805	
01 Megan Reiser	2/11/15	SDP-0805-02	Add Water Line & Lot #'s. Updated
02			Approved Block
03			
04			
05			
06			



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M-NCPPC APPROVAL
PROJECT NAME: KENWOOD VILLAGE
PROJECT NUMBER: SDP-0805-02
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet. Revision numbers must be included in the Project Number.

Axiom Engineering Design
Civil Engineering • Land Surveying • Landscape Architecture • Land Planning
6950 Columbia Gateway Dr., Ste. 150 Columbia, Maryland 21046
Office: 443.876.6620
www.axiomed.com
info@axiomed.com

THE PLAN COMPLETES THE CURRENT REQUIREMENTS OF THE HANCOCK CONSERVATION TECHNICAL MANUAL (2010).
DATE: 2/11/15
DATE: 2/11/15

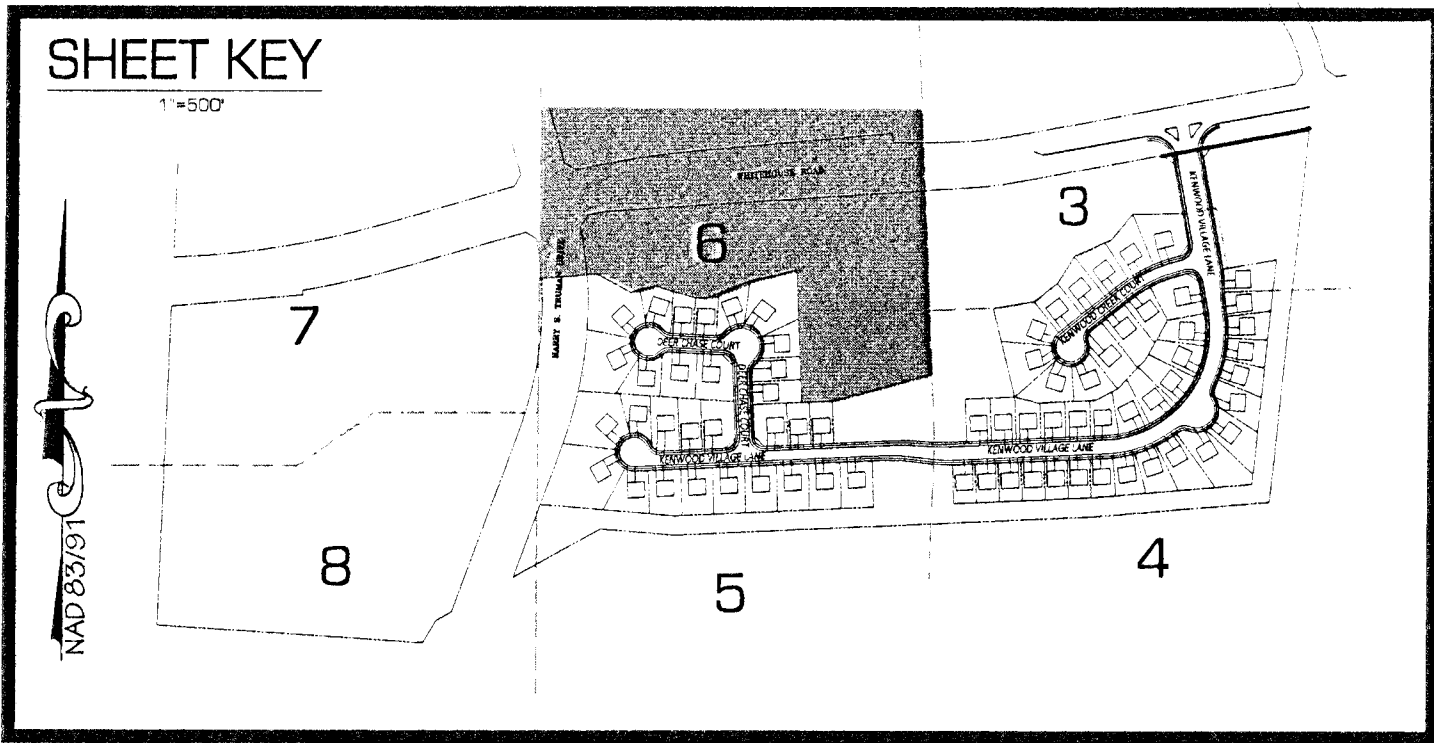
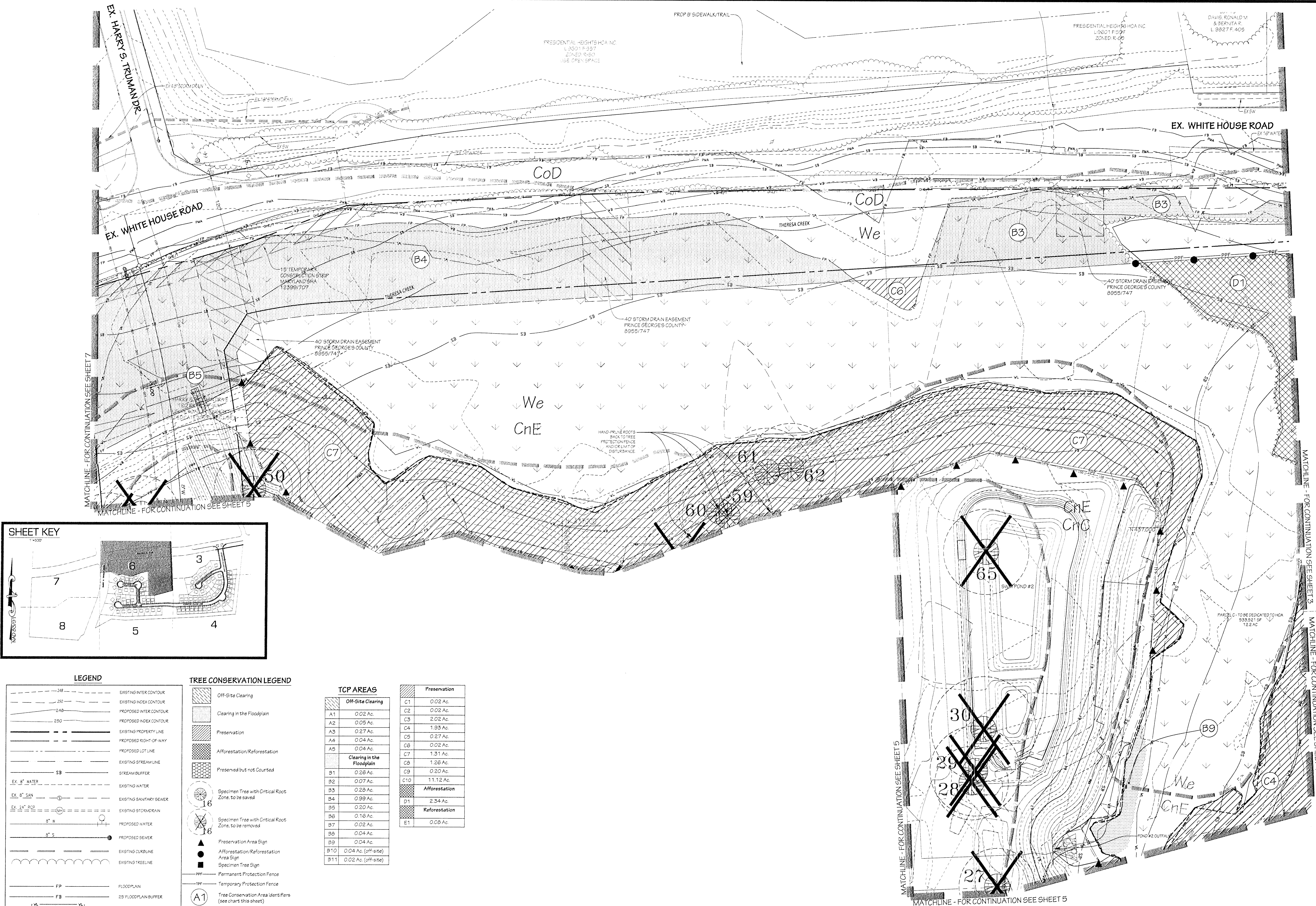
REVISIONS
DATE: 12/12/14
BY: 14WAZ
ADD WATER LINE & REUSE BLDG & LOT AREAS

APPLICANT / OWNERS:
THE WHITEHOUSE ROAD
LIMITED PARTNERSHIP
1815 M STREET, N.W.
SUITE 650 WASHINGTON, D.C. 20036
(202) 463-6800

KENWOOD VILLAGE
TYPE II TREE CONSERVATION PLAN

(15TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

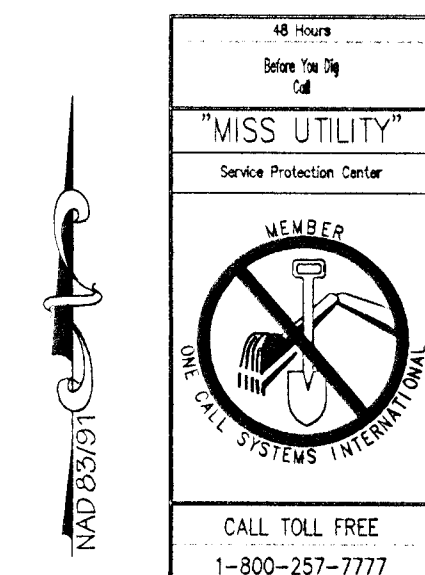
SCALE: 1" = 30'
DATE: 12.12.13
DESIGN: LET
DRAWN: LET
REVIEWED: LNG
PROJECT #: 11-0010.D1
SHEET No: 5 OF 10



LEGEND	
	EXISTING INTER CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED INTER CONTOUR
	PROPOSED INDEX CONTOUR
	EXISTING PROPERTY LINE
	PROPOSED RIGHT-OF-WAY
	PROPOSED LOT LINE
	EXISTING STREAM LINE
	STREAM BUFFER
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING CURBLINE
	EXISTING TREELINE
	FLOODPLAIN
	25 FLOODPLAIN BUFFER
	EX. WETLANDS
	25 WETLAND BUFFER
	PRIMARY MANAGEMENT AREA
	PROPOSED LIMIT OF DISTURBANCE
	PROP. SIDEWALK
	GROUND LEVEL UNMITIGATED 65 JBA
	UPPER LEVEL UNMITIGATED 65 JBA

TREE CONSERVATION LEGEND	
	Off-Site Clearing
	Clearing in the Floodplain
	Preservation
	Afforestation/Reforestation
	Preserved but not Counted
	Specimen Tree with Critical Root Zone, to be saved
	Specimen Tree with Critical Root Zone, to be removed
	Preservation Area Sign
	Afforestation/Reforestation Area Sign
	Specimen Tree Sign
	Permanent Protection Fence
	Temporary Protection Fence
	Tree Conservation Area Identifier (see chart this sheet)

TCP AREAS	
Off-Site Clearing	
A1	0.02 Ac.
A2	0.05 Ac.
A3	0.27 Ac.
A4	0.04 Ac.
A5	0.04 Ac.
Clearing in the Floodplain	
B1	0.26 Ac.
B2	0.07 Ac.
B3	0.23 Ac.
B4	0.99 Ac.
B5	0.20 Ac.
B6	0.16 Ac.
B7	0.02 Ac.
B8	0.04 Ac.
B9	0.04 Ac.
B10	0.04 Ac. (off-site)
B11	0.02 Ac. (off-site)
Preservation	
C1	0.02 Ac.
C2	0.02 Ac.
C3	2.02 Ac.
C4	1.93 Ac.
C5	0.27 Ac.
C6	0.02 Ac.
C7	1.31 Ac.
C8	1.26 Ac.
C9	0.20 Ac.
C10	11.12 Ac.
Afforestation	
D1	2.34 Ac.
Reforestation	
E1	0.08 Ac.



Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPIL-006-13			
Approved by	Date	DDP #	Reason for Revision
00 Megan Reiser	4/25/2014	SDP-0805	
01 Megan Reiser	2/19/15	SDP-0805-02	Add Water Line & Lot #s. Updated Approved Block
02			
03			
04			
05			
06			

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M-NCPPC APPROVAL

PROJECT NAME: KENWOOD VILLAGE

PROJECT NUMBER: SDP-0805-02

For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet

Revision numbers must be included in the Project Number

Axiom Engineering Design

Civil Engineering • Land Surveying • Landscape Architecture • Land Planning

6890 Columbia Gateway Dr., Ste. 150 Columbia, Maryland 21045

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info@axiom-ed.com

443.276.8291

THE PLAN COMPLETES WITH THE CURRENT REQUIREMENTS

HANSON CONSERVATION TECHNICAL MANUAL (2010)

DATE: 12/12/14

BY: M. Reiser

REVISIONS

DATE	BY	REVISIONS
12/12/14	MWR	ADD WATERLINE & FENCE B3D & LOT AREAS

APPLICANT / OWNERS:

THE WHITEHOUSE ROAD

LIMITED PARTNERSHIP

1615 M STREET, NW

SUITE 800

PRINCE GEORGE, MD 20066

(202) 458-6900

KENWOOD VILLAGE

TYPE II TREE CONSERVATION PLAN

SCALE: 1" = 30'

DATE: 12/12/13

DESIGN: LET

DRAWN: LET

REVIEWED: LNG

PROJECT #: 11-0010-01

SHEET No: 6 OF 10

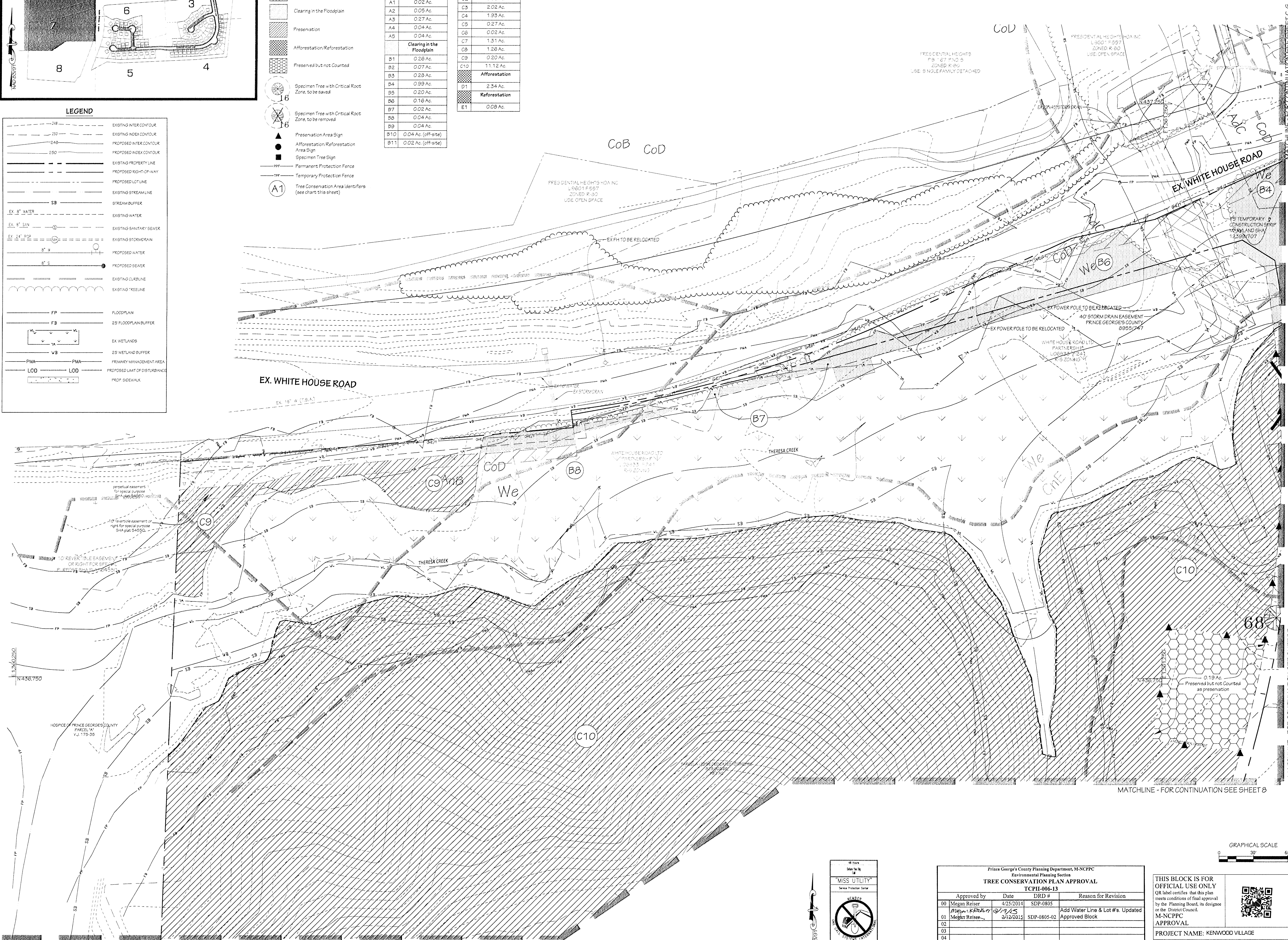
Units: Sheets 2, 12, 2010 Units: Printed 12/12/2015 5:56 PM Sheet: 6 OF 10 PROJECTS: 11-0010-DENWOOD

248
EXISTING INTER CONTOUR
250
EXISTING INDEX CONTOUR
250
PROPOSED INDEX CONTOUR
EXISTING PROPOSED LINE
PROPOSED RIGHT-OF-WAY
PROPOSED LOT LINE
EXISTING STREAMLINE
SB
STREAM BUFFER
EX. 8' WATER
EXISTING WATER
EX. 8' SAN
EXISTING SANITARY SEWER
EX. 24' ROP
EXISTING STORM DRAIN
8' N
PROPOSED WATER
8' S
PROPOSED SEWER
EXISTING CURBLINE
EXISTING TREELINE
FP
FLOODPLAIN
FB
25 FLOODPLAIN BUFFER
W1
EX. WETLANDS
W2
25 WETLAND BUFFER
PMA
PRIMARY MANAGEMENT AREA
LOD
PROPOSED LIMIT OF DISTURBANCE
PROP. SIDEWALK

	Off-Site Clearing
	Cleaning in the Floodplain
	Preservation
	Afforestation/Reforestation
	Preserved but not Counted
	Specimen Tree with Critical Root Zone, to be saved
	Specimen Tree with Critical Root Zone, to be removed
	Preservation Area Sign
	Afforestation/Reforestation Area Sign
	Specimen Tree Sign
	Permanent Protection Fence
	Temporary Protection Fence
	Tree Conservation Area Identifier (see chart this sheet)

	Off-Site Clearing
A1	0.02 Ac.
A2	0.05 Ac.
A3	0.27 Ac.
A4	0.04 Ac.
A5	0.04 Ac.
	Clearing in the Floodplain
B1	0.28 Ac.
B2	0.07 Ac.
B3	0.23 Ac.
B4	0.39 Ac.
B5	0.20 Ac.
B6	0.16 Ac.
B7	0.02 Ac.
B8	0.04 Ac.
B9	0.04 Ac.
B10	0.04 Ac. (off-site)
B11	0.02 Ac. (off-site)

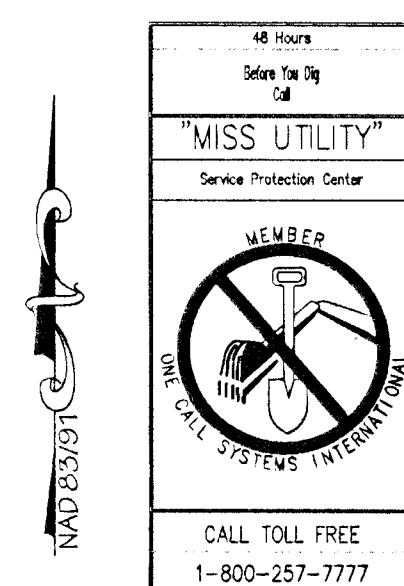
C1	0.02 Ac.
C2	0.02 Ac.
C3	2.02 Ac.
C4	1.93 Ac.
C5	0.27 Ac.
C6	0.02 Ac.
C7	1.31 Ac.
C8	1.26 Ac.
C9	0.20 Ac.
C10	11.12 Ac.
	Afforestation
D1	2.34 Ac.
	Reforestation
E1	0.08 Ac.



GRAPHICAL SCALE



A graphical scale bar with alternating black and white segments. It is marked with '0' at the left end, '30'' at the midpoint, and '60'' at the right end.



Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPH-006-13			
	Approved by	Date	DRD # Reason for Revision
00	Megan Reiser	4/25/2014	SDP-0805
01	Megan Reiser	5/19/15	Add Water Line & Lot #s. Updated
02	Megan Reiser	2/12/2015	SDP-0805-02 Approved Block
03			
04			
05			
06			

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**M-NCPPC
APPROVAL**



PROJECT NAME: KENWOOD VILLAGE
PROJECT NUMBER: SDP-0805-02
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revision numbers must be included in the Project Number

KENWOOD VILLAGE
TYPE II TREE CONSERVATION PLAN

Axiom
Engineering Design

Civil Engineering • Land Surveying • Landscape Architecture • Land Planning

6930 Columbia Gateway Dr., Ste. 150 Columbia, Maryland 21046
Office: 443.276.6520
443.276.6521
Fax: 443.276.6521
www.axiom-ed.com
info@axiom-ed.com

THIS PLAN COMPLIES WITH THE CURRENT REQUIREMENTS
OF SUBTITLE 2 AND THE WOOD AND WILDLIFE
HABITAT CONSERVATION TECHNICAL MANUAL (2010).

[Signature]
DATE 2/14/2015

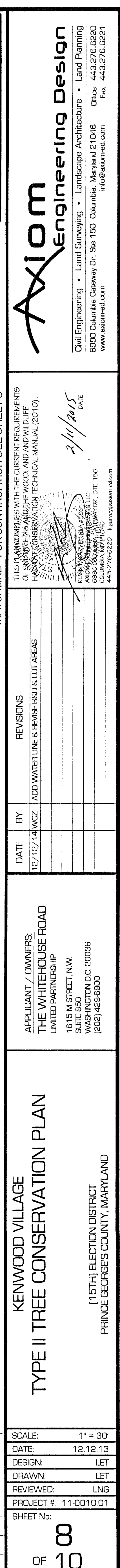
AMERICAN CONCRETE PIPES, LLC
10000 W. 150th Street, Suite 1500
Columbus, MN 55009-1746
442-276-6220 / highway@acpipes.com

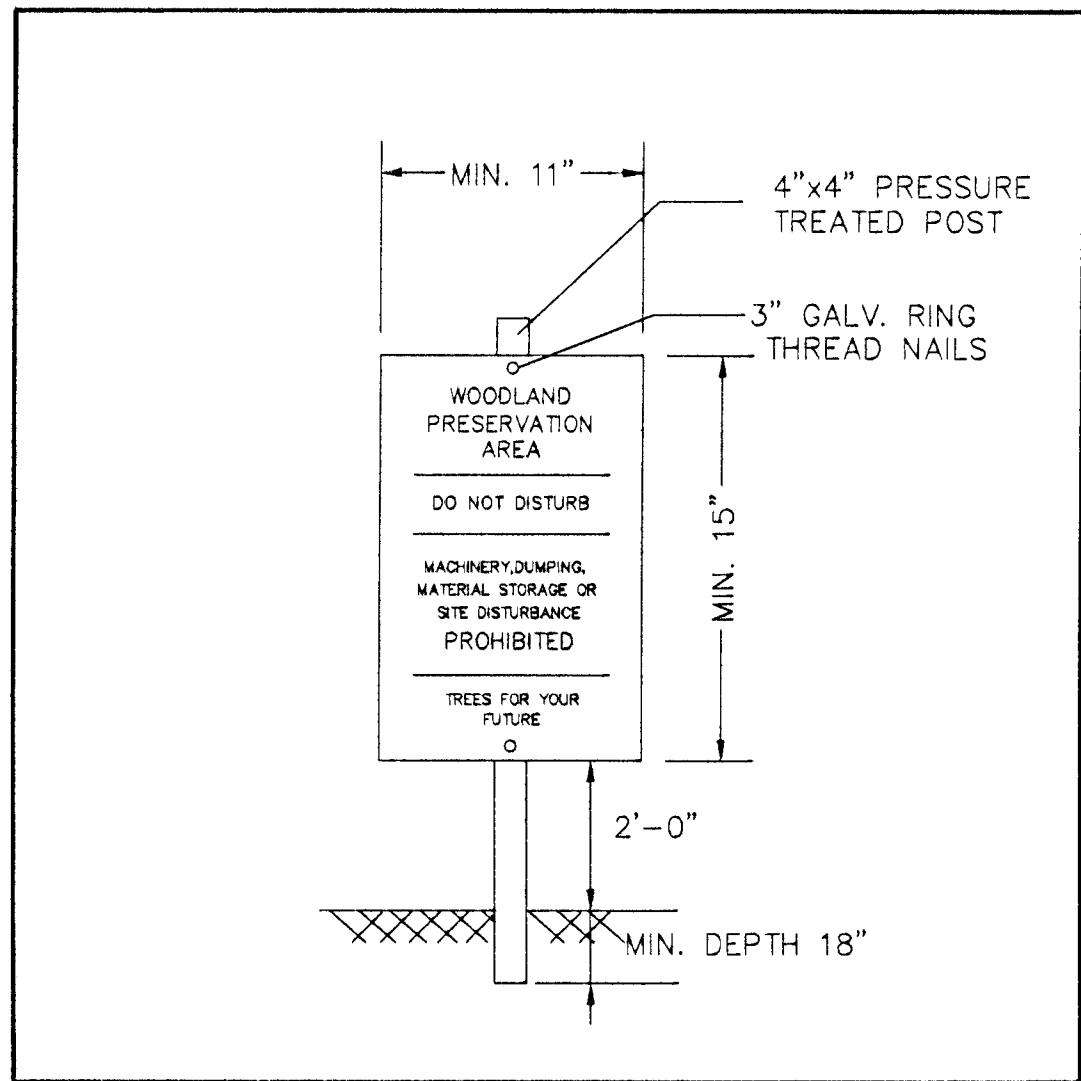
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APPLICANT / OWNERS:
THE WHITEHOUSE ROAD
LIMITED PARTNERSHIP
1615 M STREET, N.W.
SUITE 850
WASHINGTON D.C. 20036
(202) 429-6900

KENWOOD VILLAGE
TREE CONSERVATION PLAN

SCALE:	1" = 30'
DATE:	12.12.13
DESIGN:	LET
DRAWN:	LET
REVIEWED:	LNG
PROJECT #:	11-0010.01
SHEET No:	7 OF 10



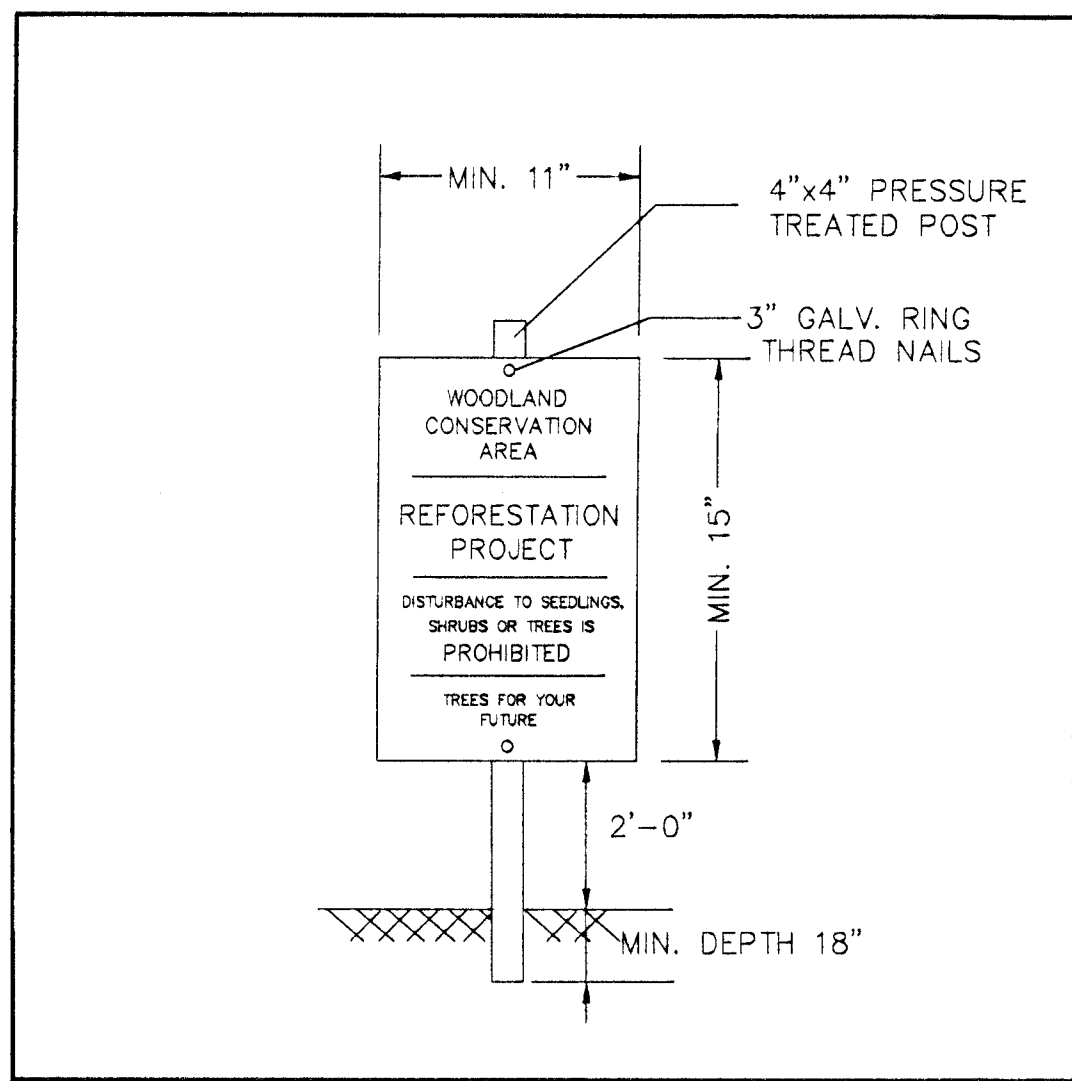


- NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 2. SIGNS SHOULD BE PROPERLY MAINTAINED.
 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

WOODLAND PRESERVATION AREA SIGN

August 2010

A-4.DET-1

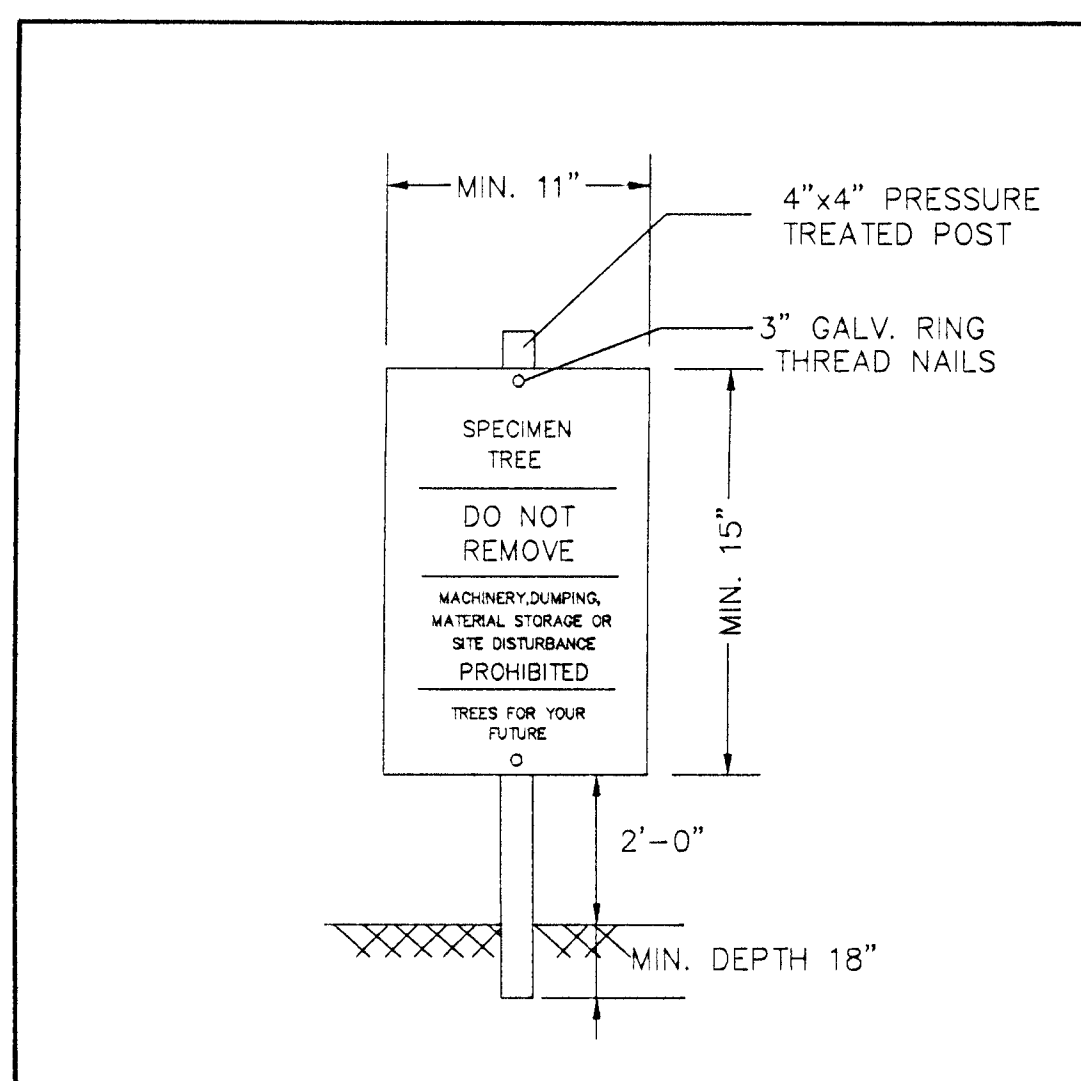


- NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 2. SIGNS SHOULD BE PROPERLY MAINTAINED.
 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN

August 2010

A-4.DET-2

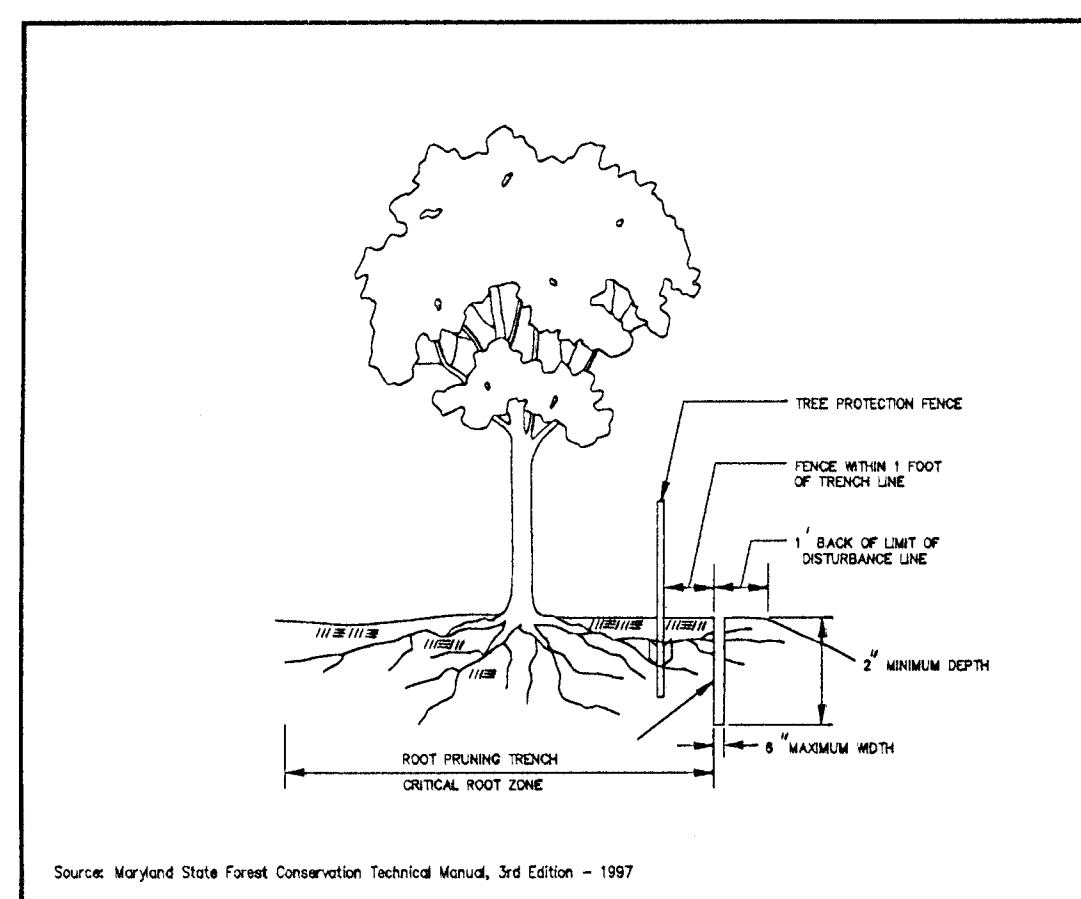


- NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 2. SIGNS SHOULD BE PROPERLY MAINTAINED.
 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

SPECIMEN TREE SIGN

August 2010

A-4.DET-3

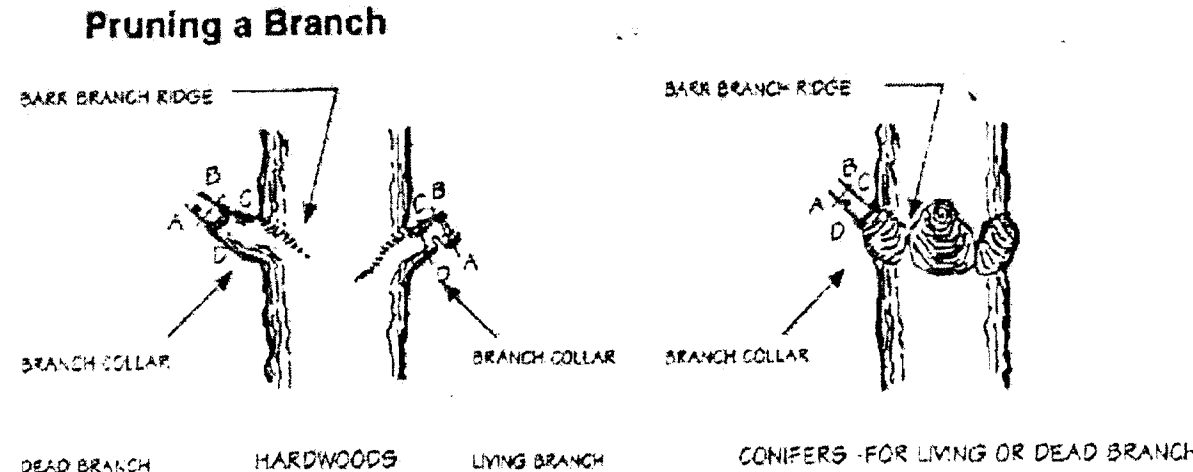


- NOTES:
1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 2. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCING.
 3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL.
 5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

ROOT PRUNING

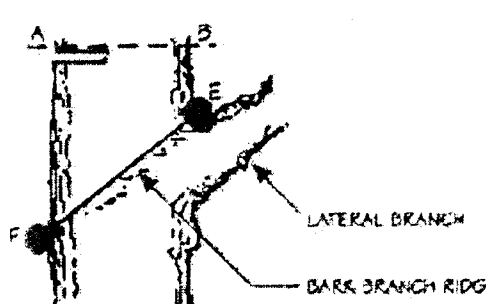
August 2010

10/10/2010



- Notes:
1. Remove branch weight by undercutting at A and remove limb by cutting through at AB.
 2. Remove stub at CD (line between branch bark ridge and outer edge of branch collar).
 3. If D is difficult to find on hardwoods, angle of CD to trunk should be the reflective angle of the bark branch ridge to the trunk.
 4. Only prune at specified times.
 5. Remove no more than 30% of crown at one time.

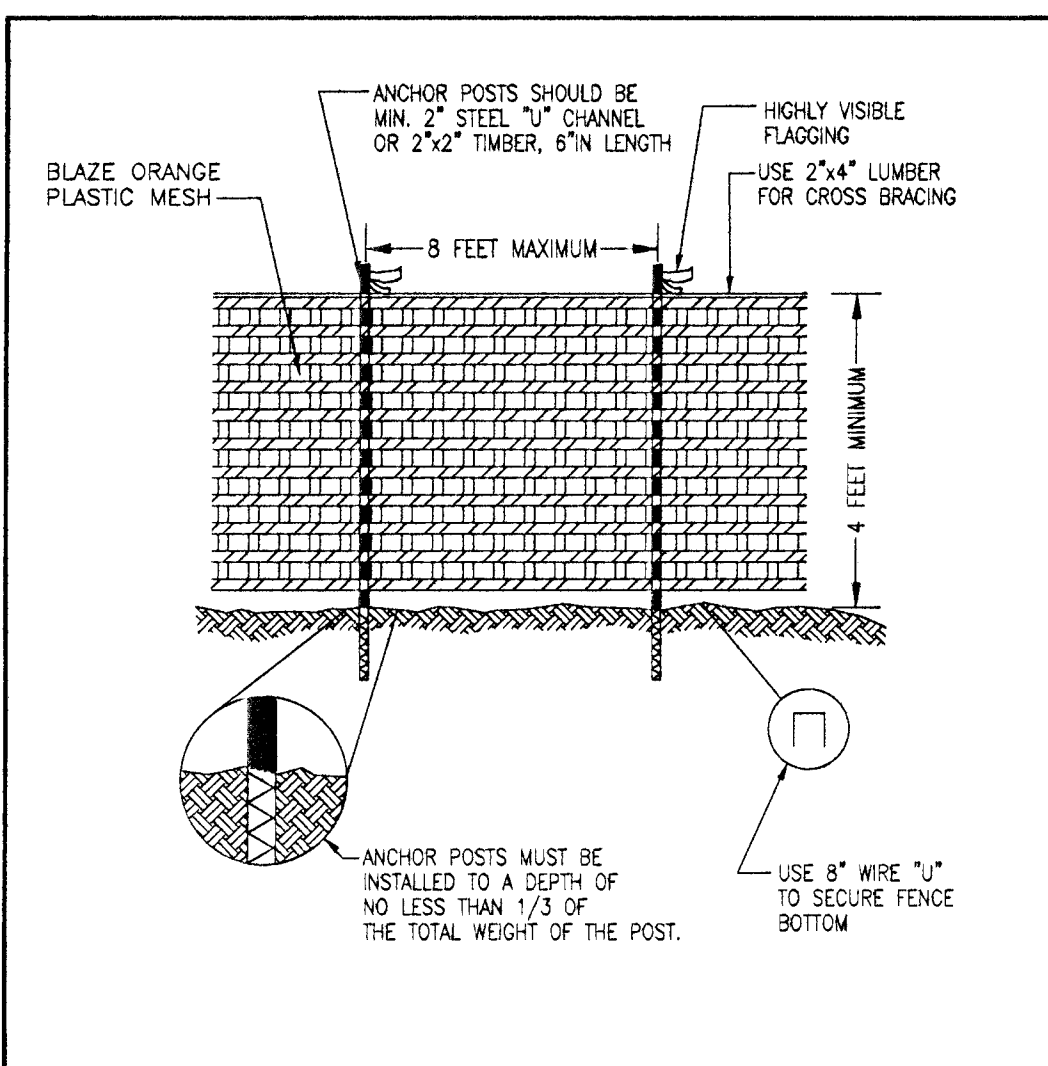
Pruning a Leader to Reduce Size



- Notes:
1. Remove top weight by undercutting at A and remove limb by cutting through AB.
 2. Remove stub at EF (parallel to the bark branch ridge).
 3. Only prune at specified times.
 4. No more than 30% of crown to be removed at one time.
 5. Diameter of lateral branch should be no less than 30% of the diameter of the leader.

Source: Fairfax County, Virginia Vegetation Preservation & Planning, January 1986

Tree Pruning

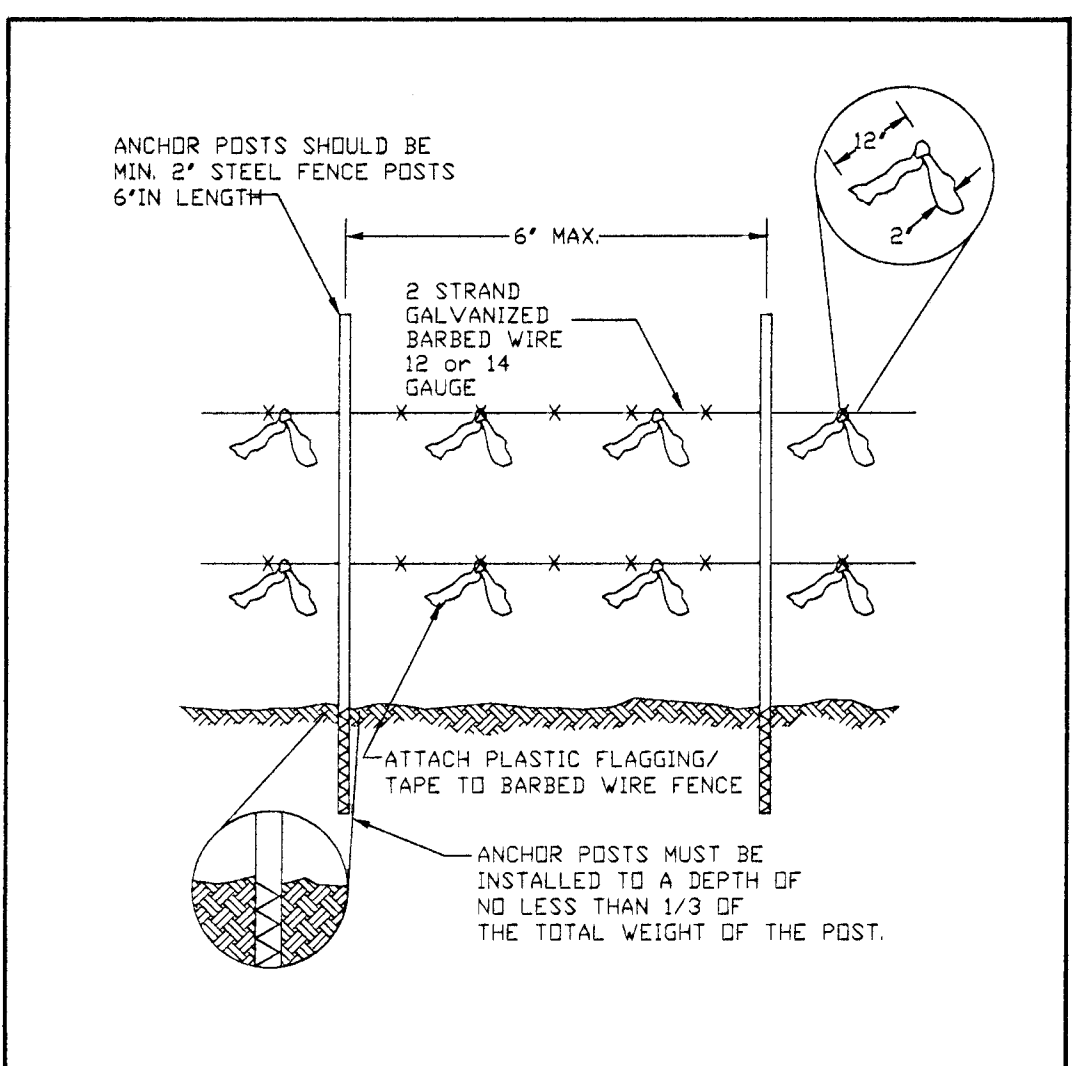


- NOTES: (MUST BE INCLUDED WITH DETAIL)
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
 6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

TYPE 1 (TEMPORARY) TREE PROTECTION FENCE DETAIL FOR WOODLAND PRESERVATION AREAS

August 2010

A-4.DET-4

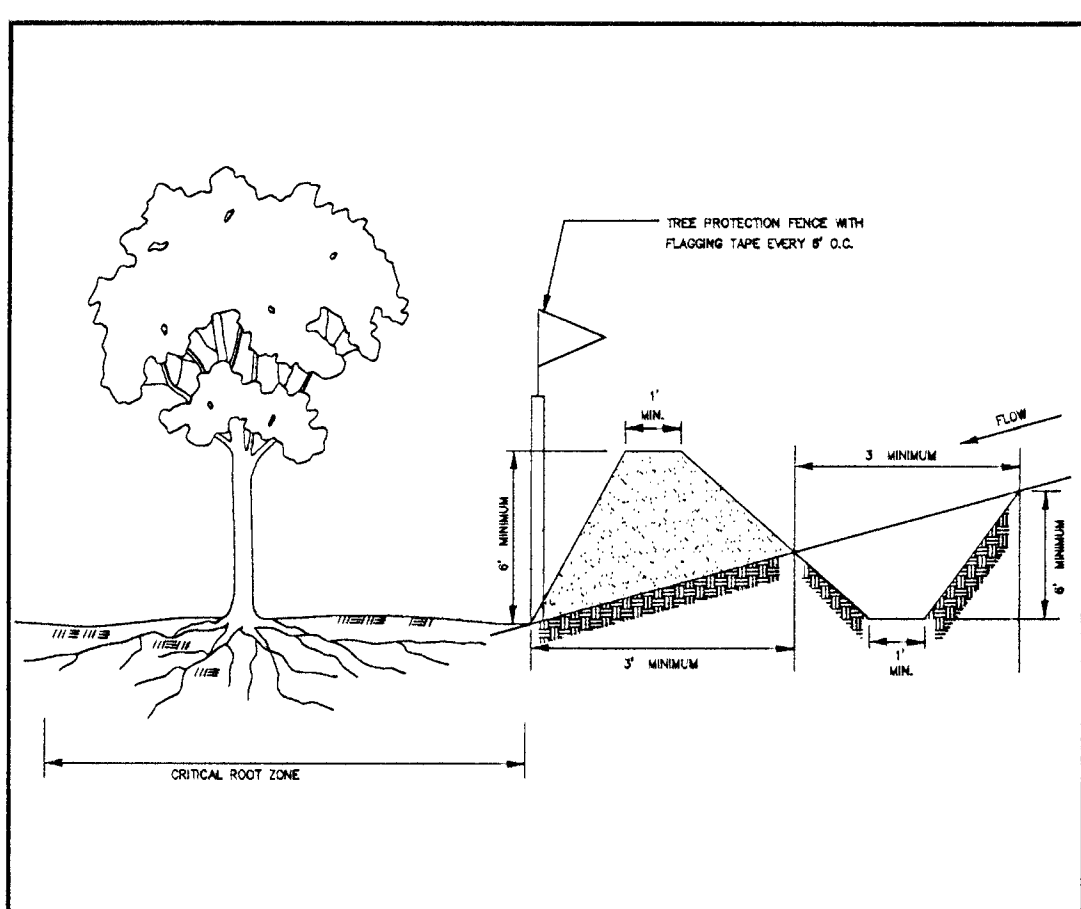


- NOTES: (MUST BE INCLUDED WITH DETAIL)
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 5. BARBED WIRE SHOULD BE SECURELY ATTACHED TO POSTS.
 6. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
 7. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

TYPE 2 (TEMPORARY) TREE PROTECTION FENCE FOR REFORESTATION AREAS

August 2010

A-4.DET-5

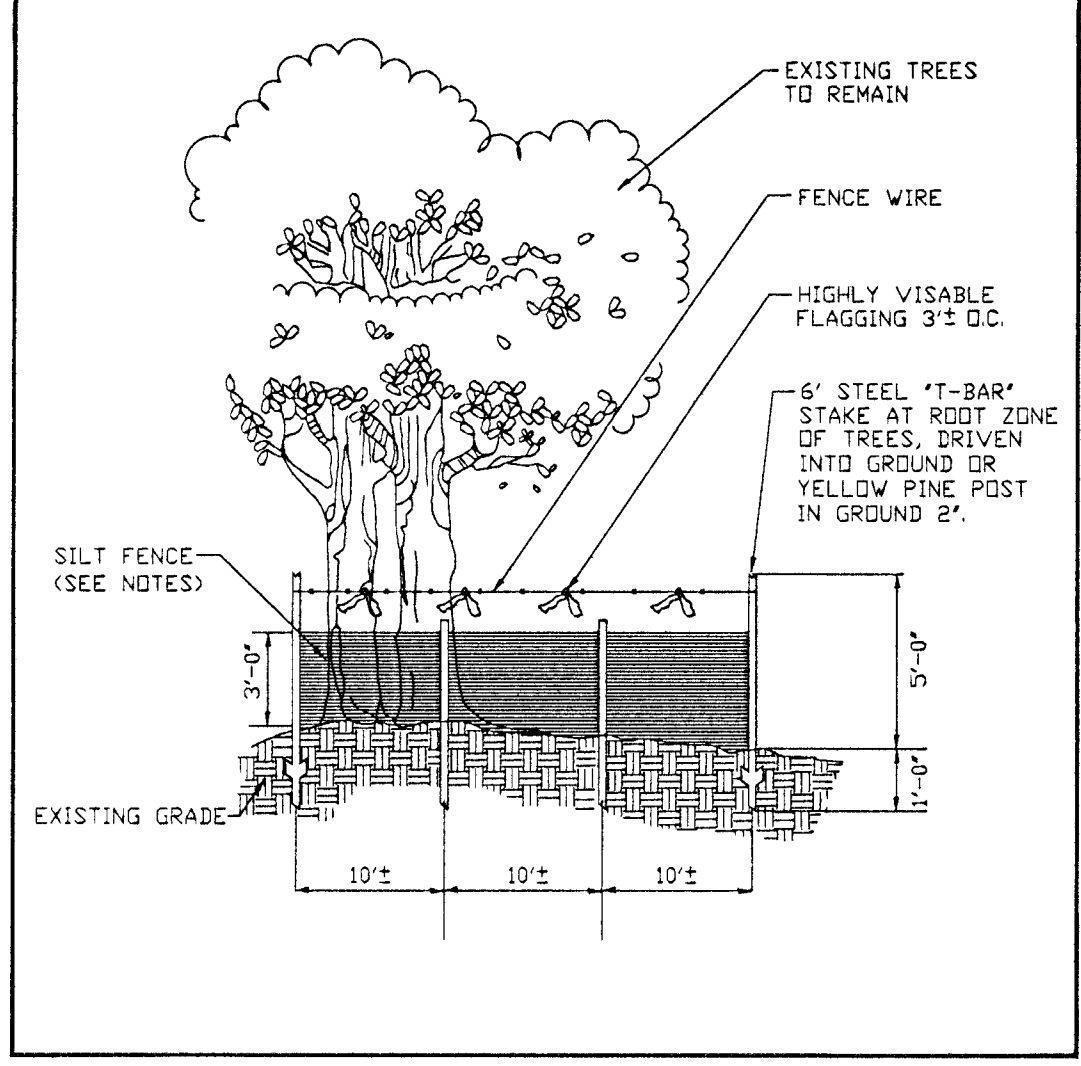


- NOTES:
1. COMBINATION SEDIMENT CONTROL AND FOREST PROTECTION DEVICE.
 2. BOUNDARIES OF THE RETENTION AREA WILL BE SET AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
 4. ROOT DAMAGE SHOULD BE AVOIDED.
 5. THE TOE OF SLOPE SHOULD BE OUTSIDE THE CRITICAL ROOT ZONE.
 6. EQUIPMENT IS PROHIBITED WITHIN CRITICAL ROOT ZONE OF RETENTION AREA, PLACE DIKE ACCORDINGLY.
 7. ALL STANDARD MAINTENANCE FOR EARTHEN DIKES AND SWALES APPLY TO THESE DETAILS.
 8. ALL STANDARD RECLAMATION PRACTICES FOR EARTHEN DIKES AND SWALES SHALL APPLY TO THESE DETAILS.

TYPE 3 (TEMPORARY) TREE PROTECTION FENCE COMBINATION SILT FENCE & TREE PROTECTION

August 2010

A-4.DET-7

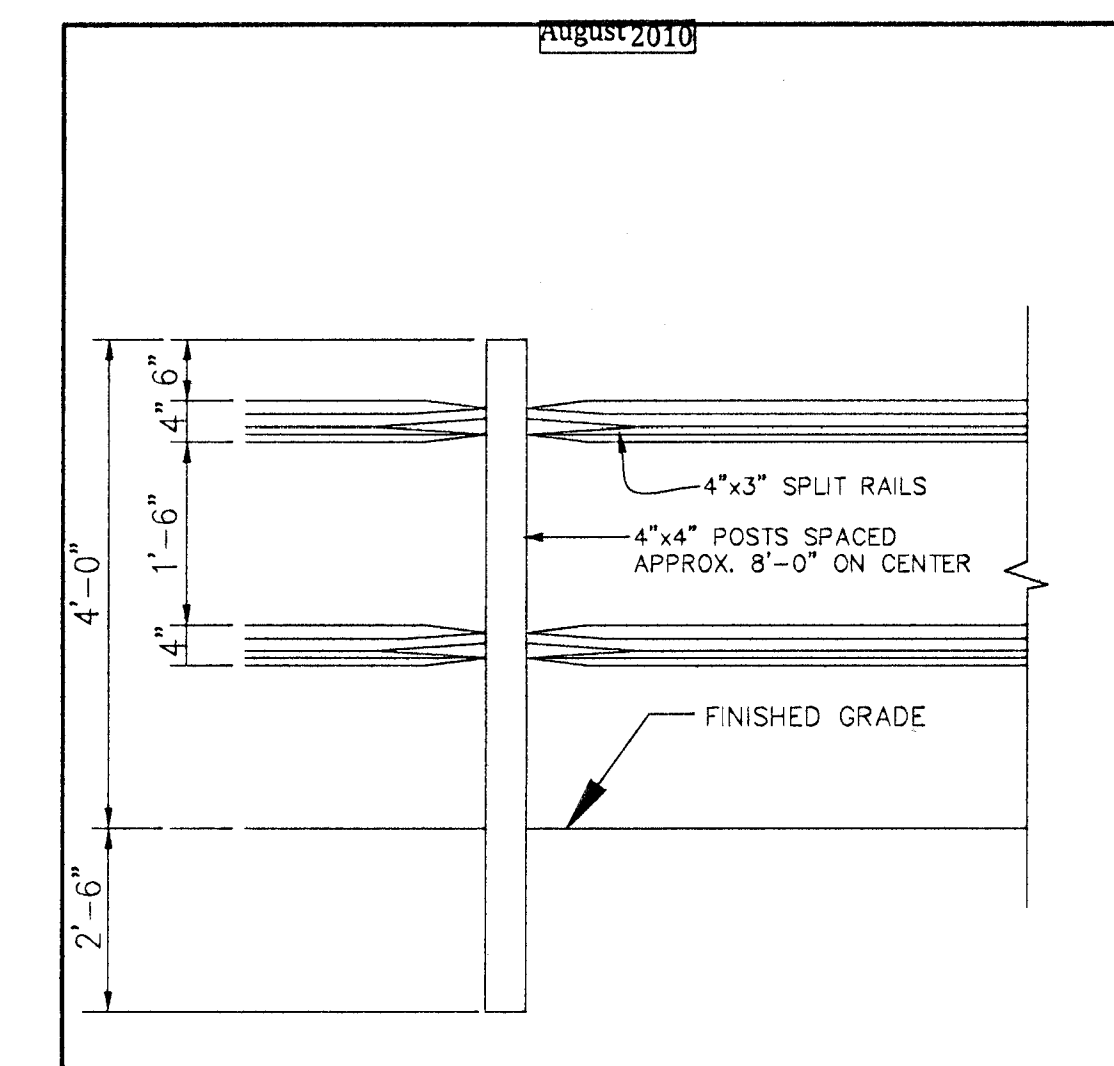


- NOTES:
1. SILT FENCE TO BE HELED TO SOIL.
 2. WIRE, SNOW FENCE, ETC. FOR TREE PROTECTION ONLY.
 3. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE TREE CONSERVATION PLAN REVIEW PROCESS.
 4. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 5. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 6. DEVICE SHOULD BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.
 7. PROTECTIVE SIGNAGE IS ALSO REQUIRED.
 8. LOCATE FENCE OUTSIDE THE CRITICAL ROOT ZONE.

TYPE 4 (TEMPORARY) TREE PROTECTION FENCE COMBINATION SILT FENCE & TREE PROTECTION

August 2010

A-4.DET-8

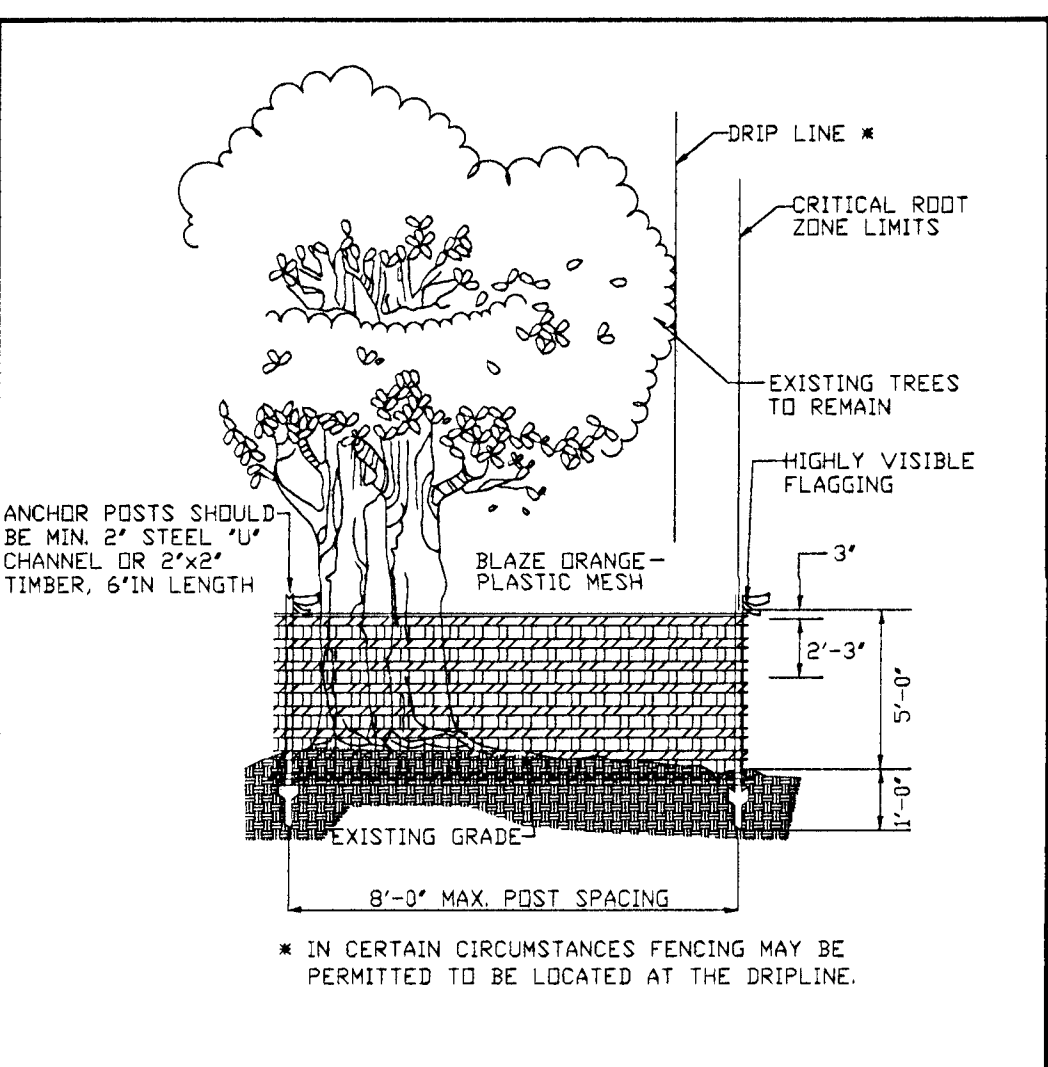


- NOTES:
1. POSTS SHALL STAND PLUMB.
 2. RAILS SHALL BE HUNG WITH UNIFORM HEIGHT AND SPACING.
 3. REFORESTATION SIGNS TO BE ATTACHED TO WOOD POSTS EVERY 50 FEET..
 4. TOP OF SIGN TO BE FLUSH WITH TOP OF WOOD POST.
 5. SIGNS TO BE ATTACHED USING 2 GALVANIZED WOOD SCREWS EACH WITH A GALVANIZED WASHER.

PERMANENT (SPLIT RAIL) TREE PROTECTION FENCE FOR REFORESTATION AREAS

August 2010

A-4.DET-9

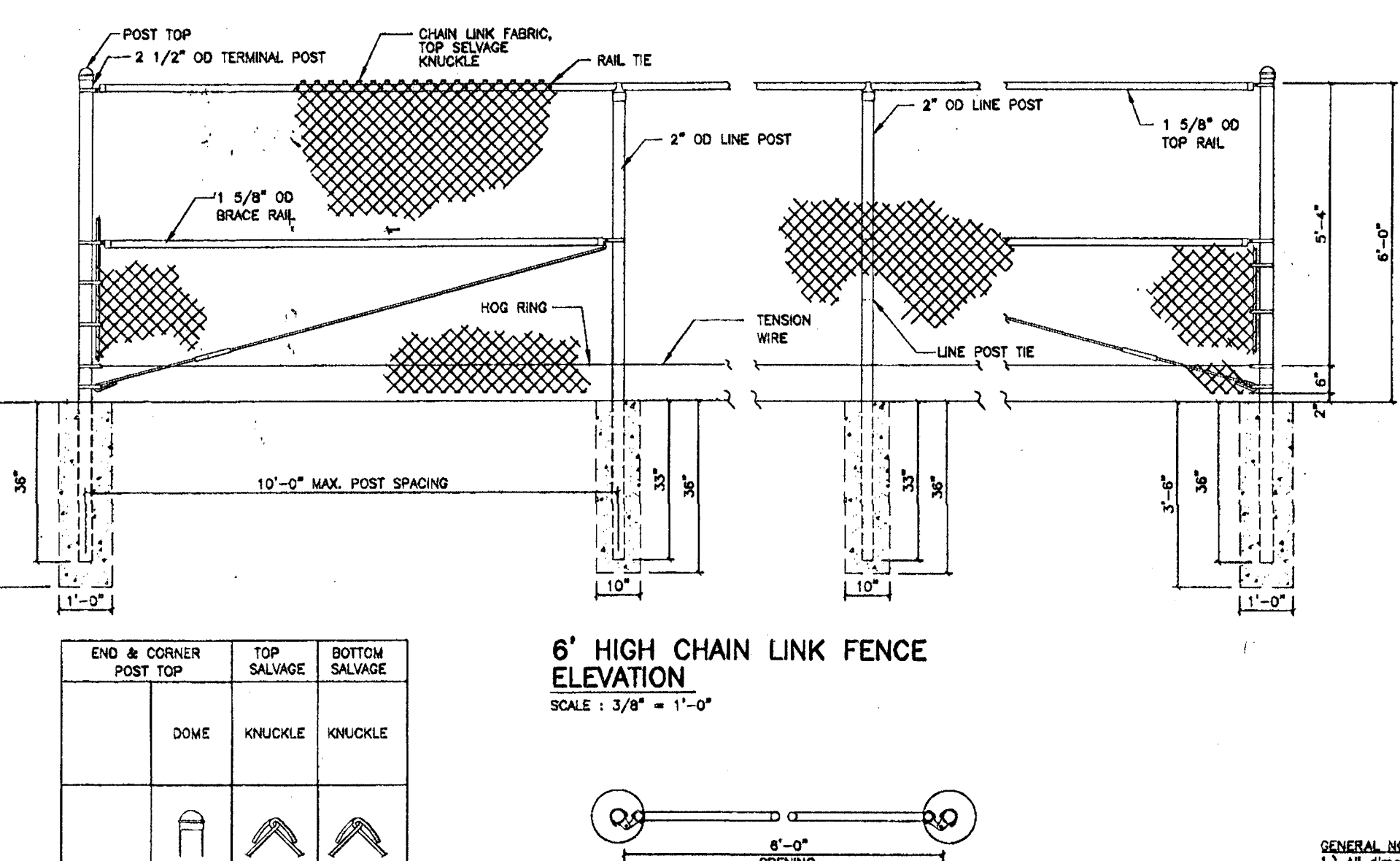


- NOTES: (MUST BE INCLUDED WITH DETAIL)
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
 6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

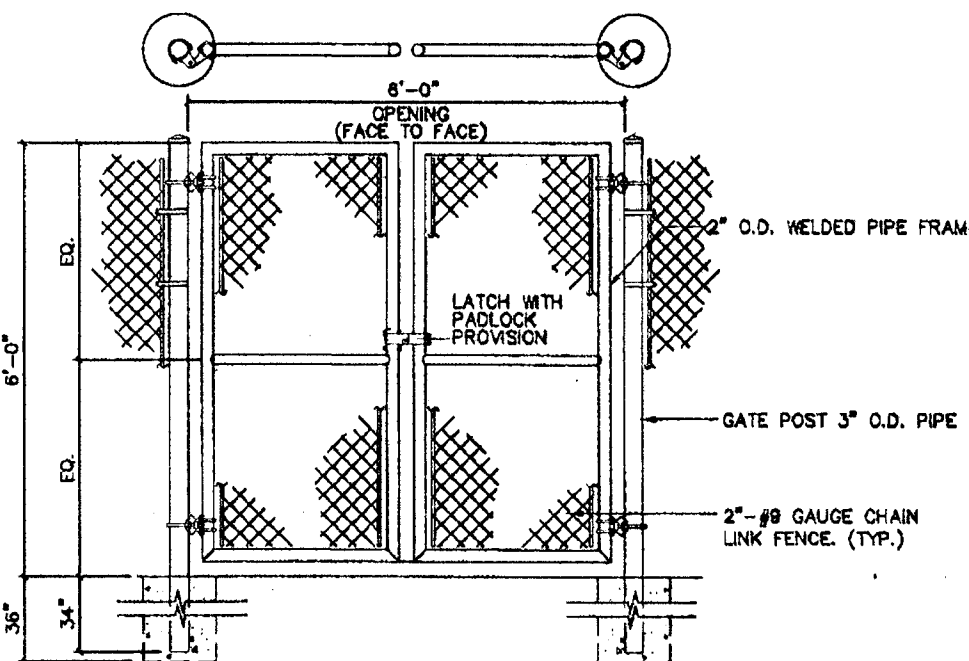
TEMPORARY FENCE PROTECTION DETAIL FOR WOODLAND PRESERVATION AREAS

August 2010

A-4.DET-3



END & CORNER POST TOP	TOP SALVAGE	BOTTOM SALVAGE
DOVE	KNUCKLE	KNUCKLE



6' HIGH X 6' WIDE DOUBLE SWING GATE

SCALE: 1/8" = 1'-0"

- GENERAL NOTES:
- 1) All dimensions to be verified in the field.
- MATERIAL SPECIFICATIONS:
- ~ Fence fabric - #8 gauge, black vinyl, 1 3/4" mesh.
 - ~ Gate posts - 3" OD SS-40 galvanized pipe @ 4.64 lbs/ft
 - ~ Terminal posts - 2 1/2" OD SS-40 galvanized pipe @ 3.12 lbs/ft
 - ~ Line posts - 2" OD SS-40 galvanized pipe @ 2.28 lbs/ft
 - ~ Top and brace rails - 1 5/8" OD SS-40 galvanized pipe @ 1.84 lbs/ft
- FINISHING:
- ~ Line posts - 10" diameter x 36" deep
 - ~ End and corner posts - 12" diameter x 36" deep
 - ~ Swing gate posts - 12" diameter x 36" deep All footings will be 3000 psi or equivalent concrete.
 - ~ Hardware - all parts to be galvanized steel.
- *NOTE: Bored finish on the top and bottom salvage is not recommended for safety reasons.

Price George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCPII-006-13		
Approved by	Date	Reason for Revision
00 Megan Reiser	4/25/2014	SDP-0805
01 Megan Reiser	2/19/15	Add Water Line & Lot #s. Updated
02 Megan Reiser	2/12/2015	SDP-0805-02
03		Approved Block
04		
05		
06		

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QR label certifies that this plan meets conditions of final approval by the Planning Board, its designee or the District Council.
M-NCPPC
APPROVAL



PROJECT NAME: KENWOOD VILLAGE
PROJECT NUMBER: SDP-0805-02

For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet
Revision numbers must be included in the Project Number

DATE	BY	REVISIONS
12/12/14WZ		ADD WATER LINE & FENCE SUB & LOT AREAS

APPLICANT / OWNERS:
THE WHITEHOUSE ROAD
LIMITED PARTNERSHIP
1615 N STREET, N.W.
SUITE 650
WASHINGTON DC 20036
(202) 463-6600

KENWOOD VILLAGE
TYPE 2 TREE CONSERVATION PLAN
DETAILS SHEET
(15TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

Handling Seedlings in the Field

Seedlings and Whips

Bare Root Trees

Handling Bare Root Stock

Size	Number Required per Acre	Approximate Spacing feet on center	Survivability Requirement At the end of the second growing season	
Bare Root Seedlings or Whips	700	8 x 8	75%	525
Container Grown Seedling Tubes (Minimum Cavity Width 1.5")	500	10 x 10	75%	375
Container Grown 1, 2, 3 Gallon	400	12 x 12	75%	300
Container Grown 5, 7 Gallon or 1" Caliper B & B	300	15 x 15	85%	255
Container Grown 15, 25 Gallon or 1.5" Caliper B & B	150	20 x 20	100%	150

Notes:

1. These stocking and survival requirements are the minimum numbers estimated to meet the definition of forest from base land. In certain circumstances, any combination of the above mentioned stocking options, dry seeding, tree shelters, temporary, and/or natural regeneration may be appropriate strategies to fulfill the requirements of an approved TCP. They will be evaluated on a case-by-case basis by the approving authority.

2. Spacing does not imply that trees or shrubs must be planted in a grid pattern.

Site Stocking

Tasks	Months
Thinning or DBH or Greater	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Planting Bare Root	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Minimum Monitoring	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Pruning (if necessary)	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Watering	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Pruning	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec

Legend:

Recommended Optimal time

Recommended with Additional Care

Dependent Upon Site Conditions

Dependent Upon Site Conditions (Heavily Watered) is Strongly Recommended From May Through October unless Weekly Irrigation is required

Notes:

1. Activities during November through February depend on ground conditions.

2. No till planting of bare and pines.

3. The planting and care of trees is most successful when coordinated with the local conditions.

4. The calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.

Source: Adapted from Forest Conservation Manual, 1991

Tree Planting and Maintenance Calendar

Typical Forest Tree Distribution Patterns

Aggregate Distribution Drift

Mixing Transplant Stock

Planting Distribution Patterns

Typical Upright Staking Detail

Typical Tree Guying Detail

Tree Staking and Guying Specifications

PLANT LIST: Preferred Species			
Acer saccharinum	Silver Maple	FACW	
Betula nigra	River Birch	FACW	
Chamaecyparis thyoides	Atlantic White Cedar	OBL	
Crataegus viridis	Green Hawthorn	FACW	
Magnolia virginiana	Sweetbay Magnolia	FACW	Tolerates occasional flooding, some salt
Pinus serotina	Marsh Pine	OBL	
Platanus occidentalis	American Sycamore	FACW	
Populus heterophylla	Swamp Cottonwood	OBL	
Quercus bicolor	Swamp White Oak	FACW	
Quercus palustris	Pin Oak	FACW	
Salix nigra	Black Willow	OBL	Suckers, Stream bank stabilization
Taxodium distichum	Bald Cypress	OBL	
Ulmus americana	American Elm	FACW	

PLANT LIST: Secondary Species			
Acer glabrum	Box Elder	FAC+	Thicket forming
Acer rubrum	Red Maple	FAC	
Betula alleghaniensis	Yellow Birch	FAC	prefers cool, moist conditions
Carya cordiformis	Swamp Hickory	FACU	
Celtis occidentalis	Hackberry	FACU	Tolerates occasional flooding, can sprout in deep shade
Liquidambar styraciflua	Sweetgum	FAC	
Nyssa sylvatica	Black Gum	FAC	
Pinus taeda	Loblolly Pine	FAC+	
Populus deltoides	Eastern Cottonwood	FAC	
Quercus nigra	Water Oak	FAC	
Quercus phellos	Willow Oak	FAC	

NOTE: Wetland indicator status taken from the State of Maryland - NWPL Final Draft Ratings 2012. U.S. Army Corps of Engineers - Cold Regions Research and Engineering Laboratory (CRREL).

Planting With Dibble Bar

Seedling Planting Techniques

Seedling and Whip Planting

Correct and Incorrect Planting Depth

Mattock Planting

Seedling and Whip Planting Techniques

Undisturbed Soil

Disturbed Soil

Planting on Slope

Container Grown and B&B Planting Techniques

- PLANTING SPECIFICATION NOTES
1. QUANTITY: SEE PLANT SCHEDULE.
 2. TYPE: SEE PLANT SCHEDULE.
 3. PLANT QUALITY STANDARDS: THE PLANTS SELECTED SHALL BE HEALTHY AND STURDY REPRESENTATIVES OF THEIR SPECIES. SEEDLINGS SHALL HAVE A MINIMUM TOP GROWTH OF 18" THE DIAMETER OF THE ROOT COLLAR (THE PART OF THE ROOT JUST BELOW GROUND LEVEL) SHALL BE AT LEAST 3/8" THE ROOTS SHALL BE WELL DEVELOPED AND AT LEAST 8" LONG, NO MORE THAN TWENTY-FIVE PERCENT (25%) OF THE ROOT SYSTEM (BOTH PRIMARY AND AUXILIARY/FIBROUS ROOTS) SHALL BE PRESENT.
 4. PLANT HANDLING: THE QUANTITY OF SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY OR TEMPORARY STORAGE AREA SHALL BE PLANTED IMMEDIATELY.
 5. TIMING OF PLANTING: THE BEST TIME TO PLANT SEEDLINGS IS WHILE THEY ARE DORMANT, PRIOR TO SPRING BUDDING. THE MOST SUITABLE MONTHS FOR PLANTING ARE MARCH AND APRIL, WHEN THE SOIL IS MOIST BUT MAY BE PLANTED FROM MARCH THROUGH NOVEMBER. NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING SHALL OCCUR WITHIN ONE GROWING SEASON OF THE ISSUANCE OF GRADING/BUILDING PERMITS AND/OR REACHING THE FINAL GRADES AND STABILIZATION OF PLANTING AREAS.
 6. SEEDLING PLANTING: TREES SEEDLINGS SHALL BE HAND PLANTED USING A DIBBLE BAR OR SHARP SHOOTER SHOVEL. IT IS IMPORTANT THAT THE SEEDLING BE PLACED IN THE HOLE SO THAT THE ROOTS CAN SPREAD OUT NATURALLY; THEY SHOULD NOT BE TWISTED, BALLED UP OR BENT. MOIST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHOULD BE PLANTED AT A DEPTH WHERE THEIR ROOTS LIE JUST BELOW THE GROUND SURFACE. AIR POCKETS SHOULD NOT BE LEFT AFTER CLOSING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. SEE PLANTING DETAILS FOR FURTHER EXPLANATION. IF THE CONTRACTOR WISHES TO PLANT BY ANOTHER METHOD, THE PREPARED OF THIS TREE CONSERVATION PLAN MUST BE CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.
 7. SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING THEORY.
 8. SOIL UPON THE COMPLETION OF ALL GRADING OPERATIONS, A SOIL TEST SHALL BE CONDUCTED TO DETERMINE WHAT SOIL PREPARATION AND SOIL AMENDMENTS, IF ANY, ARE NECESSARY TO CREATE GOOD TREE GROWING CONDITIONS. SOIL SAMPLES SHALL BE TAKEN AT A RATE THAT PROVIDES ONE SOIL SAMPLE FOR EACH AREA THAT APPEARS TO HAVE A DIFFERENT SOIL TYPE. IF THE ENTIRE AREA APPEARS UNIFORM, THEN ONLY ONE SAMPLE IS NECESSARY, AND SUBMITTED FOR TESTING TO A PRIVATE COMPANY. THE COMPANY OF CHOICE SHALL MAKE RECOMMENDATIONS FOR IMPROVING THE EXISTING SOIL. THE SOIL WILL BE TESTED AND RECOMMENDED FOR CORRECTIONS OF SOIL TEXTURE, pH, MAGNESIUM, PHOSPHORUS, POTASSIUM, CALCIUM, AND ORGANIC MATTER.
 9. SOIL IMPROVEMENT MEASURES: THE SOIL SHALL BE IMPROVED ACCORDING TO THE RECOMMENDATIONS MADE BY THE TESTING COMPANY.
 10. FENCING AND SIGNAGE: FINAL PROTECTIVE FENCING SHALL BE PLACED ON THE VISIBLE AND/OR DEVELOPMENT SIDE OF PLANTING AREAS. THE FINAL PROTECTIVE FENCE SHALL BE INSTALLED UPON COMPLETION OF PLANTING OPERATIONS UNLESS IT WAS INSTALLED DURING THE INITIAL STAGES OF DEVELOPMENT. SIGNS SHALL BE POSTED PER THE SIGNAGE DETAIL ON THIS SHEET.
 11. PLANTING METHOD: CONSULT THE PLANTING DETAILS SHOWN ON THIS PLAN.
 12. MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHEEDED HARDWOOD MULCH (AS NOTED) TO EACH PLANTING SITE (SEE DETAIL SHOWN ON THIS PLAN).
 13. GROUND COVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.
 14. MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.
 15. SURVIVAL CHECK FOR BOND RELEASE: THE SEEDLING PLANTING IS TO BE CHECKED AT THE END OF EACH YEAR FOR FOUR YEARS TO ASSURE THAT NO LESS THAN 75% OF THE ORIGINAL PLANTED QUANTITY SURVIVED. IF THE MINIMUM NUMBER HAS NOT BEEN PROVIDED, THE AREA MUST BE SUPPLEMENTED WITH ADDITIONAL SEEDLINGS TO REACH THE REQUIRED NUMBER AT TIME OF PLANTING.
 16. SOURCE OF SEEDLINGS: Environmental Concern, Inc. 201 Boundary Lane P.O. Box P St. Michaels, MD 21663 410-745-3620

Approved by	Date	DRD #	Reason for Revision
00 Megan Reiser	4/23/2014	SDP-0805	
01 Megan Reiser	2/19/15	SDP-0805-02	Add Water Line & Lot #'s. Updated Approved Block
02			
03			
04			
05			
06			

- FOUR-YEAR MANAGEMENT PLAN FOR REFORESTATION/AFFORESTATION AREAS
- FIELD CHECK THE RE-AFFORESTATION AREA ACCORDING TO THE FOLLOWING SCHEDULE:
- YEAR 1:
1. SITE PREPARATION AND TREE PLANTING
 2. SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER) SEE NOTE 1
 3. WATERING IF NEEDED (2X MONTH)
 4. CONTROL OF UNDESIRABLE VEGETATION AS NEEDED (1X IN JUNE AND 1X IN SEPTEMBER/MIN)
- YEAR 2-3:
1. REINFORCEMENT PLANTING IF NEEDED (SEE NOTE 2)
 2. SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER)
 3. CONTROL OF UNDESIRABLE VEGETATION IF NEEDED (1X IN MAY AND 1X IN AUGUST/MIN)
- YEAR 4:
1. REINFORCEMENT PLANTING IF NEEDED (SEE NOTE 2)
 2. SURVIVAL CHECK IF NEEDED
- OFF-SITE WOODLAND CONSERVATION
- IF THE DEVELOPER OR BUILDER NO LONGER HAS AN INTEREST IN THE PROPERTY AND THE NEW OWNER DESIRES TO REMOVE A HAZARDOUS TREE OR PORTION THEREOF, THE NEW OWNER SHALL OBTAIN A WRITTEN STATEMENT FROM A CERTIFIED ARBORIST OR LICENSED TREE EXPERT IDENTIFYING THE HAZARDOUS CONDITION AND THE PROPOSED CORRECTIVE MEASURES PRIOR TO HAVING THE WORK CONDUCTED. AFTER PROPER DOCUMENTATION HAS BEEN COMPLETED PER THE HANDOUT GUIDANCE FOR PRINCE GEORGES COUNTY PROPERTY OWNERS, PRESERVATION OF WOODLAND AND CONSERVATION AREA, THE ARBORIST OR TREE EXPERT MAY THEN REMOVE THE TREE. THE STUMP SHALL BE CUT AS CLOSE TO THE GROUND AS POSSIBLE AND LEFT IN PLACE. THE REMOVAL OR GRINDING OF THE STUMPS IN THE WOODLAND CONSERVATION AREA IS NOT PERMITTED.
- IF A TREE OR PORTIONS THEREOF ARE IN IMMINENT DANGER OF STRIKING A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE, THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITTEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHY PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.
- TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS SHOWN WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT.
- a. THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE PLANT SPECIES FROM ANY WOODLAND PRESERVATION AREA SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY (PRUNERS OR A CHAIN SAW). THESE PLANTS MAY BE CUT NEAR THE GROUND AND MATERIAL LESS THAN TWO INCHES DIAMETER MAY BE REMOVED FROM THE AREA AND DISPOSED OF APPROPRIATELY. ALL MATERIAL FROM THESE NOXIOUS, INVASIVE, AND NON-NATIVE PLANTS GREATER THAN TWO INCHES DIAMETER SHALL BE CUT TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING DECOMPOSITION.
- c. THE USE OF BROADCAST SPRAYING OF HERBICIDES IS NOT PERMITTED. HOWEVER, THE USE OF HERBICIDES TO DISCOURAGE RE-SPROUTING OF INVASIVE NOXIOUS OR NON-NATIVE PLANTS IS PERMITTED IF DONE AS AN APPLICATION OF THE CHEMICAL DIRECTLY TO THE CUT STUMP IMMEDIATELY FOLLOWING CUTTING OF PLANT TOPS. THE USE OF ANY HERBICIDE SHALL BE DONE IN ACCORDANCE WITH THE LABEL INSTRUCTIONS.
- d. THE USE OF CHAINSAWS IS EXTREMELY DANGEROUS AND SHOULD NOT BE CONDUCTED WITH POORLY MAINTAINED EQUIPMENT, WITHOUT SAFETY EQUIPMENT, OR BY INDIVIDUALS NOT TRAINED IN THE USE OF THIS EQUIPMENT FOR THE PRUNING AND/OR CUTTING OF TREES.
- PROTECTION OF REFORESTATION AND AFFORESTATION AREAS BY INDIVIDUAL HOMEOWNERS
1. REFORESTATION FENCING AND SIGNAGE SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE APPROVED TYPE 2 TREE CONSERVATION PLAN.
 2. REFORESTATION AREAS SHALL NOT BE MOVED; HOWEVER, THE MANAGEMENT OF COMPETING VEGETATION AND REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION AROUND INDIVIDUAL TREES IS ACCEPTABLE.

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QR label certifies that this plan meets conditions of final approval by the Planning Board, its designee or the District Council.

M-NCPPC APPROVAL

PROJECT NAME: KENWOOD VILLAGE

PROJECT NUMBER: SCP-0805-02

For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet

Revision numbers must be included in the Project Number

Axiom Engineering Design

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