### **GENERAL NOTES**

### TOWN OF VIENNA GENERAL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO THE START OF CONSTRUCTION. CALL 703-255-6384 TO SCHEDULE THE PRE-CONSTRUCTION MEETING.
- 2. ALL CONSTRUCTION GENERATED DEBRIS MUST BE HAULED AWAY BY THE CONTRACTOR OR OWNER.
- 3. PRIOR TO THE REMOVAL OF ANY TOWN TREES (TREES WITHIN THE RIGHT OF WAY), THE APPLICANT OR THEIR REPRESENTATIVE SHALL CONTACT THE TOWN OF VIENNA ARBORIST AT 703-255-6360 TO COORDINATE HAVING THE TOWN ARBORIST ONSITE DURING ALL TOWN TREE REMOVAL.
- 4. TREE PROTECTION FOR ANY TOWN TREE, AS SHOWN ON PLAN, MUST BE INSTALLED PRIOR TO ANY SITE WORK.
- 5. IT IS UNLAWFUL TO PERFORM ANY CONSTRUCTION ABOVE FOUNDATION CORNERS PRIOR TO APPROVAL OF SETBACKS. WORK COMPLETED IN VIOLATION OF THIS REQUIREMENT IS SUBJECT TO DEMOLITION.
- 6. ALL DUMPSTERS/PODS ARE TO BE PLACED ON PRIVATE PROPERTY.
- 7. FRONT ELEVATION CHECKS ARE REQUIRED.
- 8. WALL CHECK SURVEYS ARE REQUIRED AND MUST BE SUBMITTED PRIOR TO CONSTRUCTION ABOVE FOUNDATION CORNERS.
- 9. A CERTIFICATE OF OCCUPANCY IS REQUIRED PRIOR TO OCCUPANCY. ALL REQUIRED DOCUMENTATION AND INSPECTIONS MUST BE SUBMITTED/COMPLETED BEFORE THE TOWN OF VIENNA WILL ISSUE A CERTIFICATE OF OCCUPANCY.
- 10. EXISTING SANITARY SEWER LATERALS ARE TYPICALLY CAPPED AT OR NEAR THE PROPERTY LINE. THE REUSE OF THE PORTION OF THE EXISTING SANITARY SEWER LATERAL BETWEEN THE TOWN OWNED SEWER MAIN AND THE CAPPED END MAY BE ALLOWED PROVIDING THAT A LICENSED PLUMBER CERTIFIES THAT THE EXISTING PIECE OF PIPE IS GRADED PROPERLY AND IN LIKE NEW CONDITION. THE REUSE OF A PORTION OF THE EXISTING LATERAL DOES NOT IMPLY THAT THE TOWN IS WARRANTING THE CONDITION IN ANY WAY.
- 11. PRIOR TO ANY CONSTRUCTION, CONTRACTOR / DEVELOPER TO CONTACT MISS UTILITY AT 1-800-257-7777.
- 12. ALL CONSTRUCTION SHALL CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF VDOT AND TOWN OF VIENNA.
- 13. USE EXISTING DRIVEWAY FOR TEMPORARY STONE CONSTRUCTION ENTRANCE.
- 14. THIS PLAN HAS BEEN PREPARED WITHOUT A CERTIFIED TITLE AND DOES NOT NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY.
- 15. THIS PARCEL IS SHOWN ON FAIRFAX COUNTY TAX MAP: 0482 03K 0025 AND 0482 03K 0028

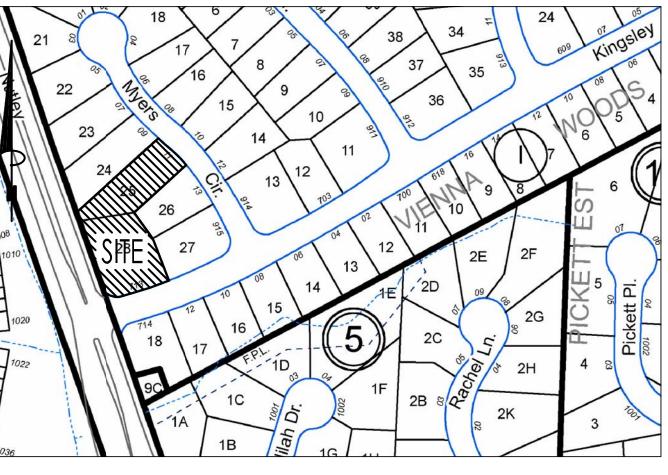
LOT NO.	TAX MAP	OWNER / SUBDIVIDER	ZONE	AREA	DESIGN ENGINEER
LT 25 BLK K SEC 8	0482 03K 0025	SHARYN COVINGTON, 10720 HUNTERS PL VIENNA VA 22181 2843 PHONE:	RS-10 (10000 3.2 DU/AC)	10,248 SF 0.2353 AC	CIVILAND, LLC. P.O. BOX 650206 STERLING, VIRGINIA
LT 28 BLK K SEC 8	0482 03K 0028	713 KINGSLEY LLC, 10720 HUNTERS PL PHONE:	RS-10 (10000 3.2 DU/AC)	21,919 SF 0.5032 AC	20165
LT 24 BLK K SEC 8	0482 03K 0024	PURDUM OLYMPIA C, 909 MYERS CI SW PHONE:	RS-10 (10000 3.2 DU/AC)	16,599 SF 0.3810 AC	

- 16. TOTAL AREA OF THE SITE = (10,248 + 11,811 + 10,108) = 32,167 SF = 0.7385 AC
- 17. TOTAL IMPERVIOUS AREA = 7,299 SF = 0.1676 AC
- 18. EXISTING ZONING: RS-10 (10000 3.2 DU/AC)
- 19. ONSITE DISTURBED AREA = 28,600 SF (0.657 AC) AND OFFSITE DISTURED AREA = 4,600 SF (0.105 AC) TOTAL DISTURBED AREA = 0.657 AC + 0.105 AC = 0.762 AC
- 20. PROPERTY HAS PUBLIC WATER AND SEWER CONNECTED.
- 21. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF VIENNA BUILDING CODE.
- 22. PERMITTEE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY WITHIN THE RIGHT-OF-WAY DURING CONSTRUCTION. STABILIZE AREAS WITH SOD.
- 23. TOPOGRAPHY INFORMATION SHOWN HEREON ARE FROM PLANS OF RECORD AND FIELD RUN TOPO PERFORMED BY WILLIAM E. RAMSEY, P.C. SURVEYS ON JUNE 21, 2017 AND THE CONTOUR INTERVAL IS 2 FEET.

# **UTILITY NOTES:**

- 1. CONTRACTOR TO RELOCATE THE EXISTING GAS LINE AND METER ONTO THE NEW BUILDING AS PER THE ARCHITECTURAL DRAWING AND TO REPLACE THE GAS METER IF NECESSARY.
- 2. CONTRACTOR TO DAYLIGHT FOUNDATION DRAIN, AS SHOWN ON SHEET 3. SEE DETAIL ON SHEET 5.
- 3. SANITARY AND WATER MAINS ARE TAKEN FROM AVAILABLE RECORDS. TEST PITS ARE REQUIRED TO VERIFY LOCATION AND DEPTH OF SANITARY AND WATER MAIN.

# RESUBDIVISION PLAN OF LOTS 25 AND 28 BLOCK K, SECTION 8 VIENNA WOODS TOWN OF VIENNA, VIRGINIA



VICINITY MAP SCALE - 1':200'



**SOILS MAP** SCALE - 1':200'

# **SOIL CLASSIFICATION**

SOILS DATA								
LOT NO.	SOIL I.D. NAME	SERIES NAME	FOUNDATION SUPPORT	DRAINAGE	SLOPE CLASS	EROSION POTENTIAL	PROBLEM CLASS	SEPTIC DRAIN FIELDS
25 & 28	107B	Wheaton - Meadowville complex*	FAIR	MARGINAL	2-15%	MEDIUM	IVB	MARGINAL

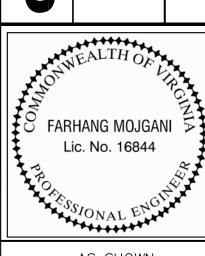
# PROJECT DESCRIPTION:

THE PLAN PROPOSES TO DEMOLISH EXISTING BUILDING, DECK, WALKWAY, STEPS AND DRIVEWAY ON LOT 25 AND LOT 28.

IT IS ALSO PROPOSED TO SUBDIVIDE THE LOT25 AND LOT28 INTO THREE (3) LOT AS LOT 25A, LOT 28A AND LOT 28B. THE PLAN PROPOSED TO CONSTRUCT A HOUSE ON EACH LOT WITH ASSOCIATED DRIVEWAY AND WALKWAY. THE PROJECT IS ANTICIPATED TO TAKE APPROXIMATELY 9 MONTHS AND CONSTRUCTION IS EXPECTED TO BEGIN AS SOON AS PERMITS ARE OBTAINED.

### RS-10 ZONING REQUIREMENTS:

RS-10 ZONE:	REQUIREMENTS:	PROVIDED LOT 25A1:	PROVIDED LOT 28A:	PROVIDED LOT 28B:
FRONT SETBACK:	25 FT	27.18 FT	25.07 FT	25.45 FT
REAR SETBACK:	35 FT	65.43 FT	35.54 FT	35.23 FT
SIDE SETBACK:	12 FT	14.86 FT LEFT SIDE 13.24 FT RIGHT SIDE	52.01 FT LEFT SIDE 12.03 FT RIGHT SIDE (CORNER LOT)	15.70 FT LEFT SIDE 12.50 FT RIGHT SIDE
MINIMUM LOT AREA:	10,000 SF	10,248 SF	11,811 SF	10,108 SF
	AT STREET ROW=45'	72.09 FT	104.12 FT	90.12 FT
MINIMUM LOT WIDTH:	AT FRONT BUILDING=60'	73.48 FT	128.25 FT	93.80 FT
	AT LOT MIDLINE=75'	75.00 FT	127.43 FT	91.43 FT
BUILDING HT.:	35 FT			
MAXIMUM LOT COVERAGE	25%	24.12%	21.56%	22.15%
SHAPE FACTOR	25	17.44	14.99	17.28



AS SHOWN

 Example 1

NOTE

COVER

AND WO(

OTS VIEI

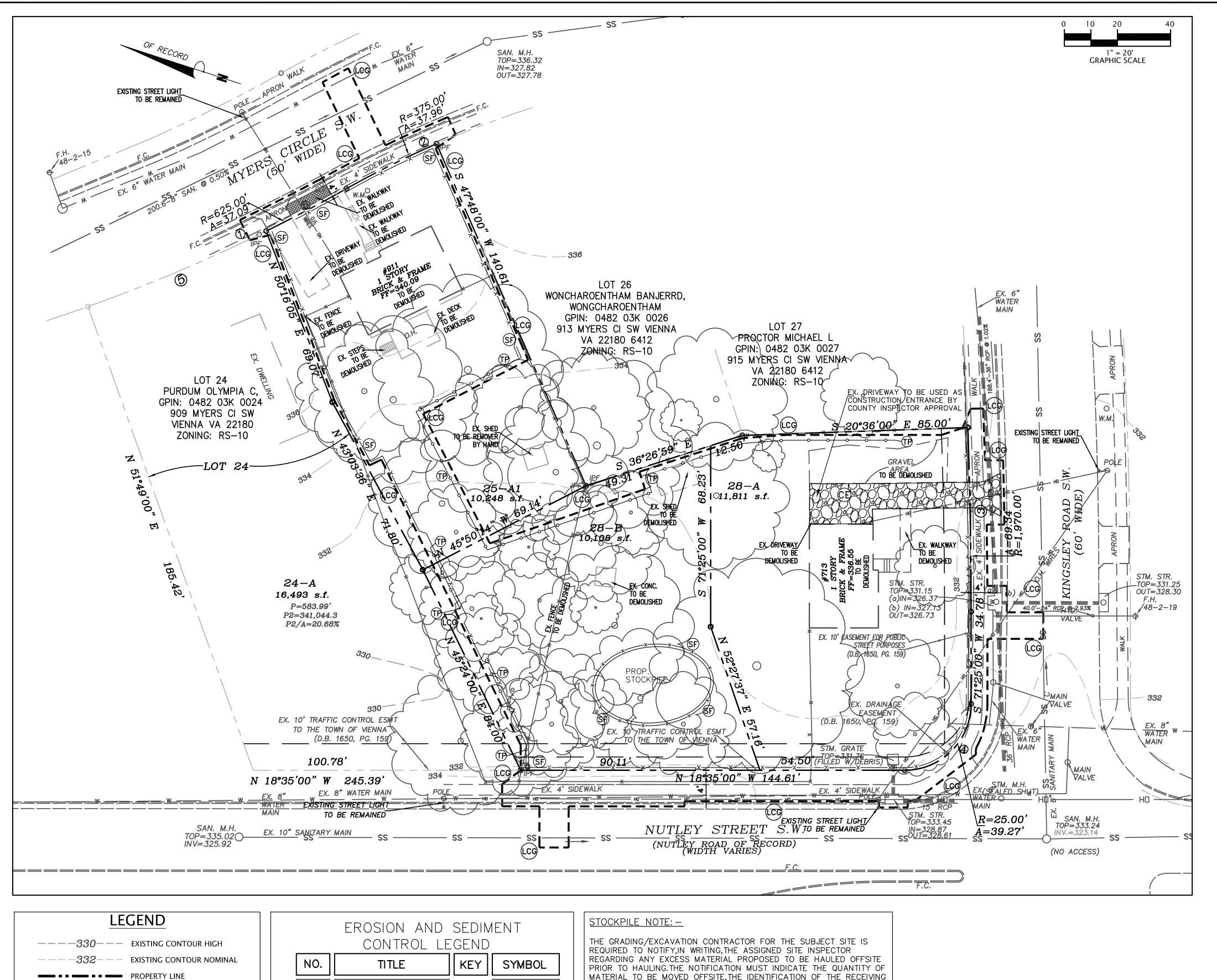
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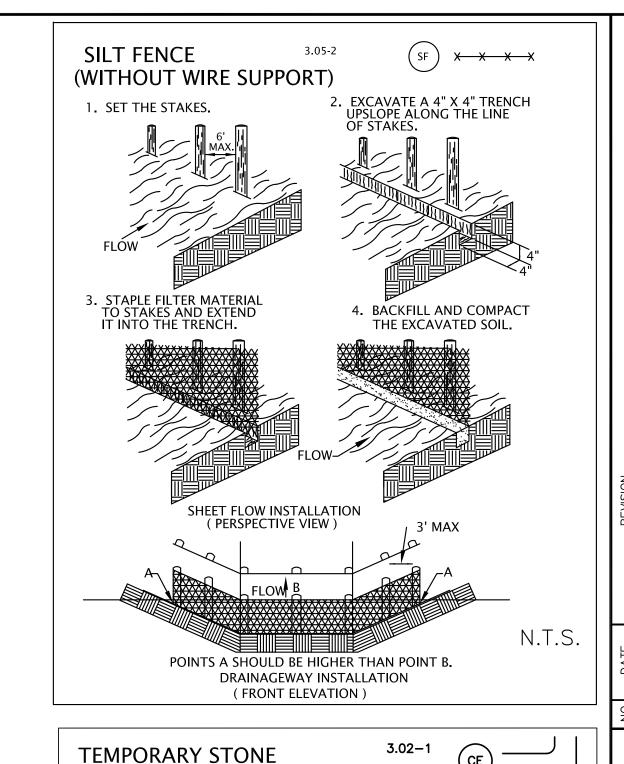
SDIVISION OF SECTION

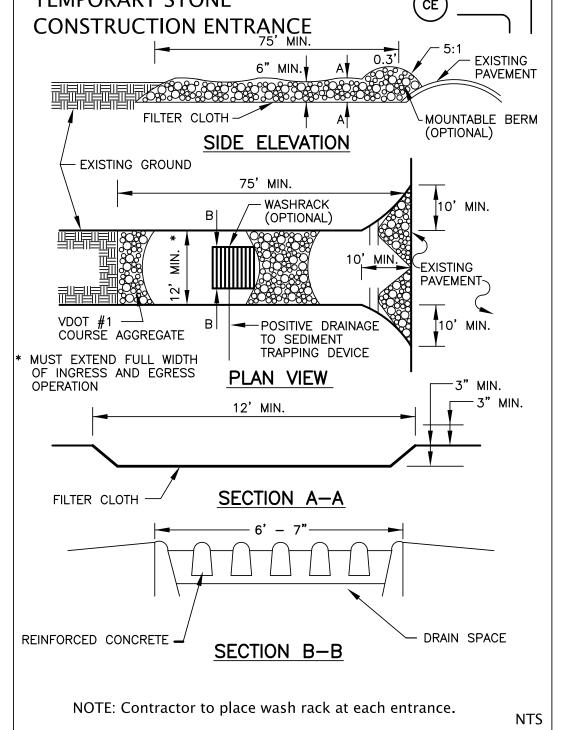
### SHEET INDEX

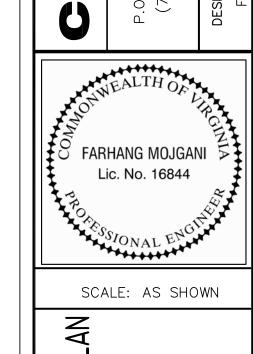
- 1. COVER, NOTES & DETAIL
- 2. EXISTING CONDITION, DEMOLITION AND E & S CONTROL PHASE I
- 3. GRADING PLAN
- 3A. LOT AND BUILDING DATA
- 4. EROSION & SEDIMENT CONTROL PHASE II 5. E & S CONTROL DETAILS AND NARRATIVE
- 6. SWM & DRAINAGE DIVIDE PLAN
- 7. ENERGY BALANCE CALCULATION
- 8. BMP DESIGN AND DETAILS
- 9. RUNOFF REDUCTION METHOD REDEVELOPMENT COMPLIANCE
- 10. EXISTING VEGETATION MAP
- 11. TREE PRESERVATION PLAN, NARRATIVES AND DETAILS
- 12. SIGHT DISTANCE PLAN

SHEET NO. 1 OF 12 FILE. NO. <u>17-14</u>









S CONTROL BLOCK K,

WOODS

EXISTING CONDITION, DEMOLITION A RESUBDIVISION OF LOTS 25 A SECTION 8 VIENNA

SHEET NO. 2 OF 12

FILE. NO. <u>17-14</u>

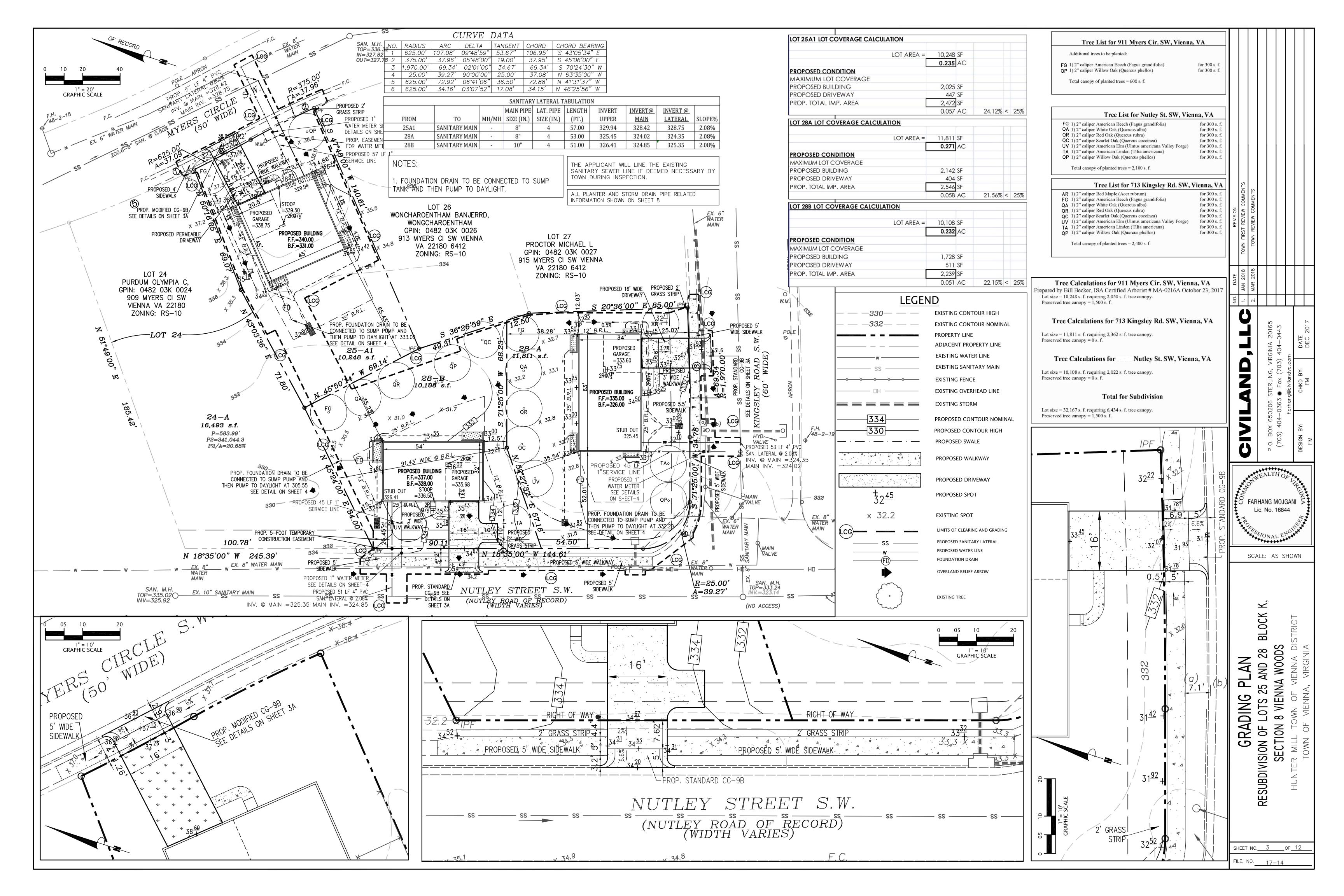
MATERIAL TO BE MOVED OFFSITE, THE IDENTIFICATION OF THE RECEIVING SITE WHERE THE EXCESS WILL BE TAKEN, AND ALL INFORMATION NECESSARY TO SHOW THAT SUCH RECEIVING SITE HAS BEEN PROPERLY PERMITTED AND HAS E&S CONTROLS INSTALLED.

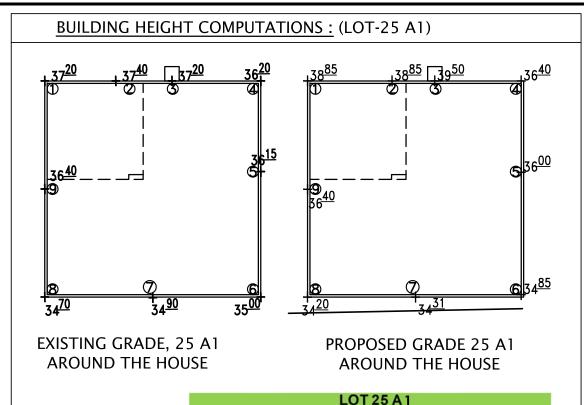
ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

330	EXISTING CONTOUR HIGH
332	EXISTING CONTOUR NOMINAL
	PROPERTY LINE
	ADJACENT PROPERTY LINE
———w ———	EXISTING WATER LINE
——— ss ———	EXISTING SANITARY MAIN
xxxx	EXISTING FENCE
— но — —	EXISTING OVERHEAD LINE
(cg — —	LIMITS OF CLEARING AND GRADING
	EXISTING STORM
	EXISTING TREE

	TITLE	KEY	SYMBOL
2	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
	SILT FENCE	(SE)	

3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.05	SILT FENCE	SF	<del>* * * *</del>
3.38	TREE PROTECTION	TP	-00-





	SPOT	EXISTING	PROPOSED	DEVIATION
. [	1	337.20	338.85	1.65
ᅵ	2	337.40	338.85	1.45
FRONT	3	337.20	339.50	2.30
ഥ	4	336.20	336.40	0.20
	5	336.15	336.00	-0.15
	6	335.00	334.85	-0.15
	7	334.90	334.31	-0.59
	8	334.40	334.20	-0.20
	9	336.40	336.40	0.00

### BUILDING HEIGHT COMPUTATIONS

AVERAGE FRONT GRADE (AT GRADE) -------- 338.40

FF ELEVATION ELEVATION OF PICK RIDGE (MAX. HEIGHT ELEVATION): 373.40

ACTUAL BUILDING HEIGHT (FEET) ----- TBD \* (FROM FRONT AVERAGE GRADE)

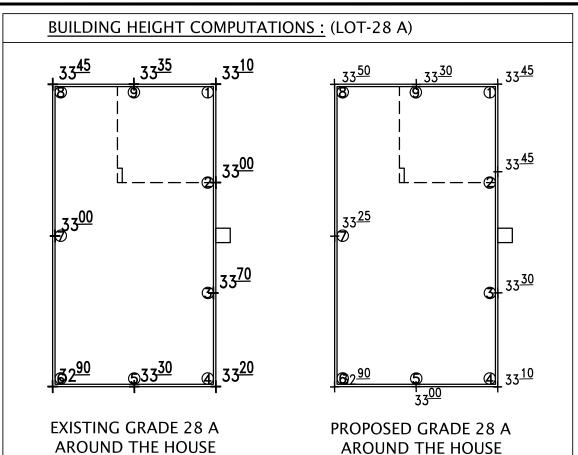
(35' MAXIMUM HEIGHT ALLOWED)

BUILDING INFORMATION BELOW PROVDED

BY ARCHITECT: FINISHED FLOOR TO PEAK RIDGE = TBD \*

### RS-10 ZONING REQUIREMENTS: (LOT-25 A1)

DESCRIPTION	REQIRED/	PROVIDED/
DESCRIPTION	ALLOWED	EXISTING
ZONE	RS-10	RS-10
LOT AREA (SF)	10,000	10,248
MAXIMUM LOT COVERAGE (%)	25%	24.12%
MAXIMUM LOT COVERAGE (SF)	2500	2472
HOUSE WITH PORCHES		2,025
DRIVEWAYS		447
SETBACK (FT)		
FRONT(50' MIN. ROW)	25	27.18
SIDE		
@ LEFT	12	14.86
@ RIGHT	12	13.24
REAR	35	65.43
LOT WIDTH (FT)		
@ STREET ROW	45	72.09
@ FRONT BUILDING	60	73.48
@ LOT MIDLINE	75	75.00
LOT SHAPE FACTOR (MAX.)	25	17.44
PERIMETER (FT)		422.74



			,		
		LOT 28 A			
	SPOT	EXISTING	PROPOSED	DEVIATION	
	1	333.10	333.45	0.35	
FRONT	2	333.00	333.45	0.45	
) <u> </u>	3	333.70	333.30	-0.40	
<u> </u>	4	333.20	333.10	-0.10	
	5	333.30	333.00	-0.30	
	6	332.90	332.90	0.00	
	7	333.00	333.25	0.25	
	8	333.45	333.50	0.05	
	9	333.35	333.30	-0.05	

### **BUILDING HEIGHT COMPUTATIONS**

AVERAGE FRONT GRADE (AT GRADE) ----- 333.33

----- 335.00 FF ELEVATION

ELEVATION OF PICK RIDGE (MAX. HEIGHT ELEVATION): 368.33 ACTUAL BUILDING HEIGHT (FEET) ----- TBD \* (FROM FRONT AVERAGE GRADE)

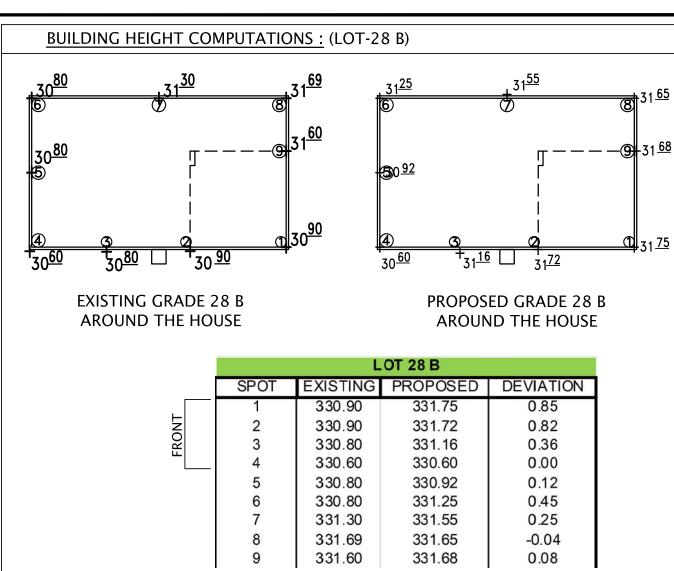
(35' MAXIMUM HEIGHT ALLOWED)

BUILDING INFORMATION BELOW PROVDED BY ARCHITECT:

FINISHED FLOOR TO PEAK RIDGE = TBD \*

### RS-10 ZONING REQUIREMENTS: (LOT-28 A)

DESCRIPTION	REQIRED/	PROVIDED/
DESCRIPTION	ALLOWED	EXISTING
ZONE	RS-10	RS-10
LOT AREA (SF)	10,000	11,811
MAXIMUM LOT COVERAGE (%)	25%	21.56%
MAXIMUM LOT COVERAGE (SF)	2500	2546
HOUSE WITH PORCHES		2,142
DRIVEWAYS		404
SETBACK (FT)		
FRONT(50' MIN. ROW)	25	25.07
SIDE		
@ LEFT	12	52.01
@ RIGHT	12	12.03
REAR	35	35.54
LOT WIDTH (FT)		
@ STREET ROW	45	104.12
@ FRONT BUILDING	60	128.15
@ LOT MIDLINE	75	127.43
LOT SHAPE FACTOR (MAX.)	25	14.99
PERIMETER (FT)		420.78



3	330.80	331.16	0.36
4	330.60	330.60	0.00
5	330.80	330.92	0.12
6	330.80	331.25	0.45
7	331.30	331.55	0.25
8	331.69	331.65	-0.0
9	331.60	331.68	0.08
	4 5 6 7 8	4 330.60 5 330.80 6 330.80 7 331.30 8 331.69	4 330.60 330.60 5 330.80 330.92 6 330.80 331.25 7 331.30 331.55 8 331.69 331.65

### BUILDING HEIGHT COMPUTATIONS

AVERAGE FRONT GRADE (AT GRADE) ----- 331.31

FF ELEVATION ----- 337.00

ELEVATION OF PICK RIDGE (MAX. HEIGHT ELEVATION): 366.31 ACTUAL BUILDING HEIGHT (FEET) ----- TBD \*

(FROM FRONT AVERAGE GRADE) (35' MAXIMUM HEIGHT ALLOWED)

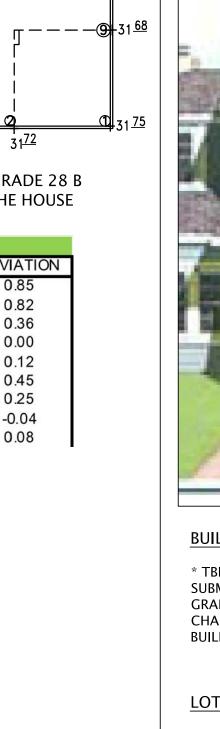
BUILDING INFORMATION BELOW PROVDED

BY ARCHITECT:

FINISHED FLOOR TO PEAK RIDGE = TBD \*

### RS-10 ZONING REQUIREMENTS: (LOT-28 B)

DESCRIPTION	REQIRED/ ALLOWED	PROVIDED/ EXISTING
ZONE	RS-10	RS-10
LOT AREA (SF)	10,000	10,108
MAXIMUM LOT COVERAGE (%)	25%	22.15%
MAXIMUM LOT COVERAGE (SF)	2500	2239
HOUSE WITH PORCHES		1,728
DRIVEWAYS		511
SETBACK (FT)		
FRONT(50' MIN. ROW)	25	25.45
SIDE		
@ LEFT	12	15.70
@ RIGHT	12	12.50
REAR	35	35.23
LOT WIDTH (FT)		
@ STREET ROW	45	90.12
@ FRONT BUILDING	60	93.80
@ LOT MIDLINE	75	91.43
LOT SHAPE FACTOR (MAX.)	25	17.28
PERIMETER (FT)		417.96

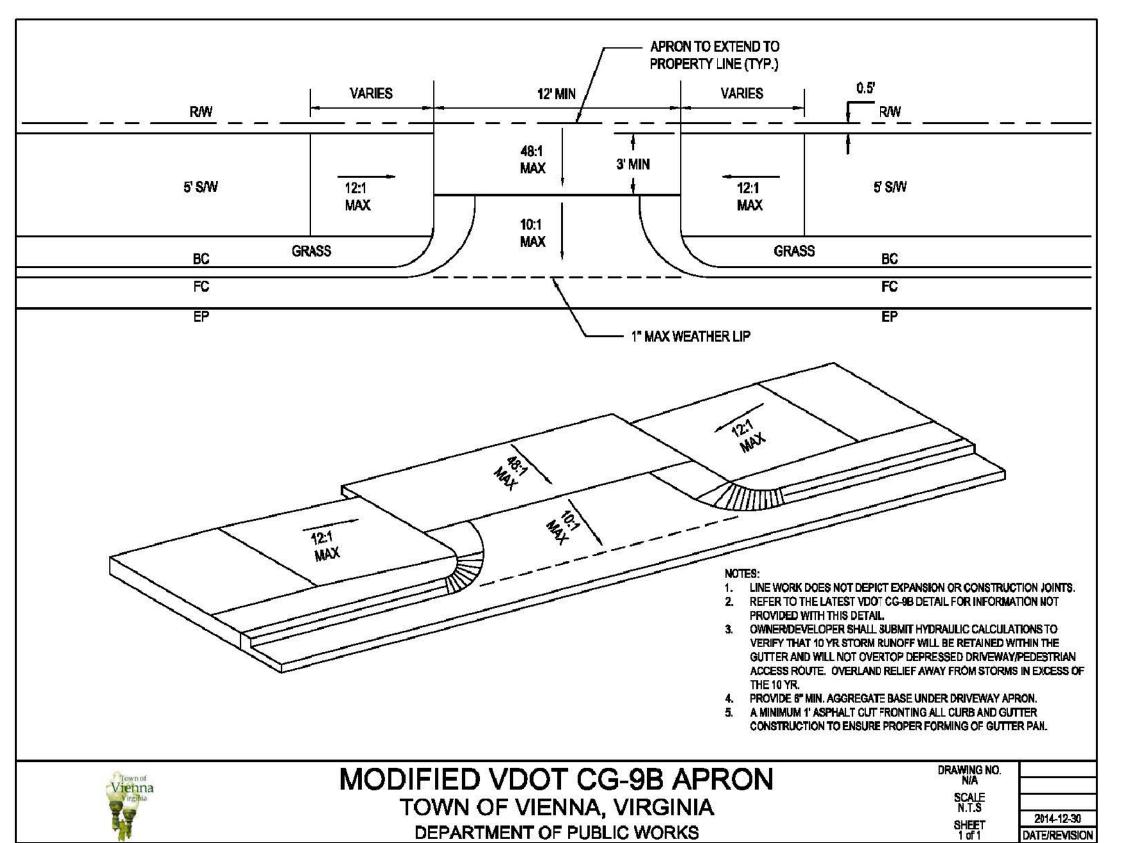


### **BUILDING HEIGHT NOTE**

\* TBD TO BE DETERMINED BY AT TIME OF LOT GRADING PLAN SUBMISSION. FROM ELEVATION OF PEAK RIDGE TO AVERAGE FRONT GRADE SHALL NOT EXCEED 35'. BUILDING FOOTPRINTS SUBJECT TO CHANGE AT TIME OF SUBMISSION OF LOT GRADING PLANS FOR BUILDING PERMITS.

### LOT AND DECK COVERAGE NOTE

LOT AND DECK COVERAGE WILL BE DETERMINED AT THE TIME OF LOT GRADING PLAN AND BUILDING PLAN SUBMISSION.LOT AND DECK COVERAGE WILL NOT EXCEED ALLOWABLE MAXIMUMS.





PEAK RIDGE

AVERAGE

FRONT GRADE

AS SHOWN

 $\leq$ BLOCK DA 28 00S AND WO BUILDING

OTS 25 A  $\supset \infty$ 

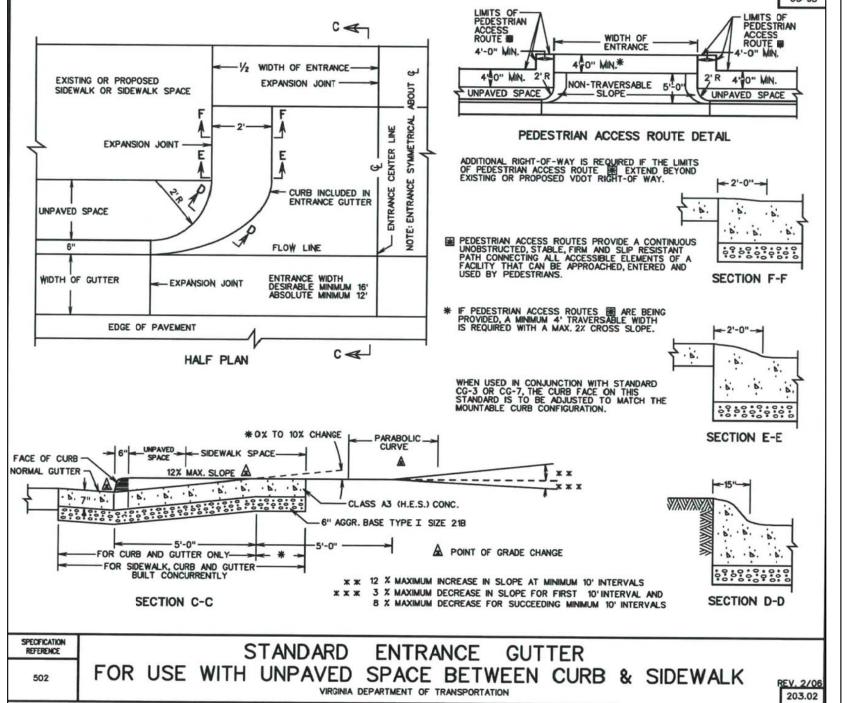
RESUBDIVISION OF I AND LOT

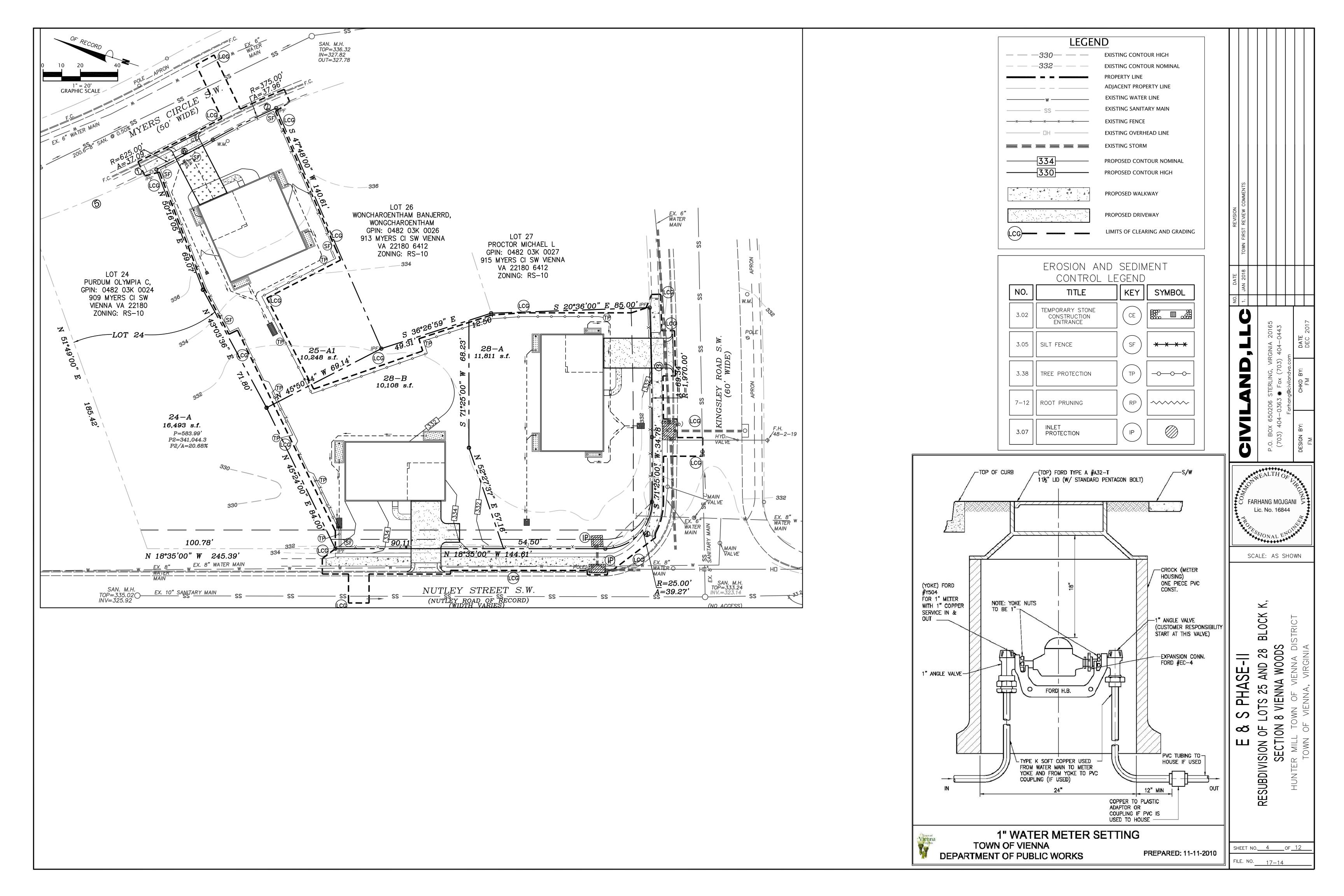
SHEET NO. 3A OF 12 FILE. NO. <u>17-14</u>

DATE/REVISION

# FIRE MARSHAL REQUEREMENTS:

DESCRIPTION	LOT 25A1	LTOT 28 A	LTOT 28 B
Use group (IBC Classification). PFM 9- 0202.2C(1)	R-5 detached single family residence	R-5 detached single family residence	R-5 detached single family residence
Type of constraction (IBC Classification). PFM 9- 0202.2C(2)	Type V, wood framed construction	Type V, wood framed construction	Type V, wood framed construction
Building height and number of stories	2 story above ground, building height not to exceed 30'	2 story above ground, building height not to exceed 30'	2 story above ground, building height not to exceed 30'
Maximum Distance of site to Fire Hydrant.	260 LF (from F.H. 48-2-15)	350 LF (from F.H. 48-2-19)	230 LF (from F.H. 48-2-19)





### **EROSION AND SEDIMENT CONTROL NARRATIVE**

### PROJECT DESCRIPTION

THE PLAN PROPOSES TO DEMOLISH EXISTING BUILDING, DECK. WALKWAY, STEPS AND DRIVEWAY ON LOT 25 AND LOT 28.

IT IS ALSO PROPOSED TO SUBDIVIDE THE LOT25 AND LOT28 INTO THREE (3) LOT AS LOT 25A1, LOT 28A AND LOT 28B. THE PLAN PROPOSED TO CONSTRUCT A HOUSE ON EACH LOT WITH ASSOCIATED DRIVEWAY AND WALKWAY. THE PROJECT IS ANTICIPATED TO TAKE APPROXIMATELY 9 MONTHS AND CONSTRUCTION IS EXPECTED TO BEGIN AS SOON AS PERMITS ARE OBTAINED.

ONSITE DISTURBED AREA IS 28,600 SF AND OFFSITE DISTURBED AREA IS 4,600 SF.

### **EXISTING PROPERTY:**

THE EXISTING PROPERTY (LOT25 AND LOT28) CONSISTS OF BUILDING, DECK, WALKWAY, STEPS, DRIVEWAY, GRAVEL AND SHED. THE SITE HAS AVERAGE SLOPE OF 6% IN THE EAST AND 3-5% IN THE WEST.

### ADJACENT PROPERTY

THE SITE IS BORDERED BY MYERS CIRCLE S.W. IN THE NORTH AND NORTH-EAST, NUTLEY STREET S.W. IN THE WEST, KINGSLEY STREET S.W. IN THE SOUTH AND RS-10 PROPERTIES ON TO THE OTHER

### OFFSITE AREA

OFFSITE SIDEWALK IMPROVEMENT ALONG THE RIGHT OF WAY INFRONT OF LOTS 25A1, 28A AND 28B HAVE BEEN PROPOSED. WATER AND SANITARY TIE UPS ARE ALSO PROPOSED.

### CRITICAL EROSION AREAS

NO CRITICAL AREAS HAVE BEEN IDENTIFIED ON THE SITE.

REFER TO SHEET 1 SOILS MAP AND DESCRIPTION. EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). THESE STANDARDS SHALL BE ADHERED TO UNLESS OTHERWISE AUTHORIZED BY AN AGENT OF THE GOVERNING COUNTY AGENCY.

### STRUCTURAL PRACTICES

1. TEMPORARY CONSTRUCTION ENTRANCE - 3.02 EXISTING DRIVEWAY WILL BE USED AS CONSTRUCTION ENTRANCE WITH AN ACCESS FROM KINGSLEY STREET S.W. ALL MUD AND DEBRIS SHALL BE REMOVED FROM CONSTRUCTION VEHICLES PRIOR TO RE-ENTERING THE STREET. SOURCE OF WATER IS AVAILABLE ONSITE.

2. TREE PRESERVATION AND PROTECTION TREE PRESERVATION AND PROTECTION MEASURES SHALL BE ADOPTED AS SHOWN ON THE PLAN TO PROTECT THE TREES IN THE PLOT.

3. SILT FENCE - 3.05

SILT FENCE SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN TO FILTER SEDIMENT LADEN SHEET FLOW FROM LEAVING THE DISTURBED

4. INLET PROTECTION - 3.07 A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET. THE PURPOSE IS TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

### **VEGETATIVE PRACTICES**

1. TEMPORARY SEEDING - 3.31

ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITHIN 14 DAYS WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING.

2. PERMANENT STABILIZATION-3.32

ALL AREAS DISTURBED BY CONSTRUCTION NOT RECEIVING PAVEMENT SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING IN ACCORDANCE WITH MINIMUM STANDARD #3.32. WHEN THE SEDIMENT HAS BUILT UP ALL EROSION CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EVERY SIGNIFICANT RAINFALL.

### MAINTENANCE OF PERIMETER CONTROLS

1. THE SILT FENC SHALL BE CLEANED TO ONE HALF OF THE HEIGHT OF THE SILT FENCE OR WHEN "BULGES" APPEAR.

THE FENCE SHALL ALSO BE CHECKED DAILY FOR RIPS TEARS, OR FALLEN SECTIONS. DAMAGED FENCE SHALL BE REPLACED IMMEDIATELY.

2. THE RESPONSIBLE LAND DISTURBER HAS PRIMARY RESPONSIBILITY FOR FIELD INSPECTION TO ENSURE THAT THE E&S CONTROL MEASURES SHOWN ON APPROVED GRADING PLANS OR SITE AND SUBDIVISION PLANS ARE ACTUALLY PROVIDED. FIELD INSPECTORS ARE AUTHORIZED TO MAKE MINOR MODIFICATIONS TO THE REQUIREMENTS SHOWN ON PLANS WHERE NECESSARY TO CONFORM TO FIELD CONDITIONS OR TO ENSURE EFFECTIVE CONTROL. MAJOR CHANGES SHALL BE CLEARED WITH THE ENVIRONMENTAL AND FACILITIES REVIEW DIVISION.

LIMITS OF CLEARING AND PHASE I CONTROLS SHALL BE IN PLACE AND APPROVED BY THE COUNTY INSPECTOR PRIOR TO COMMENCING ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITIES. COUNTY INSPECTOR'S APPROVAL IS REQUIRED PRIOR TO PHASE II CONSTRUCTION.

### PHASE I IMPLEMENTATION

1. EXISTING DRIVEWAY TO BE USED AS CONSTRUCTION ENTRANCE. ORGANIZE SOURCE OF WATER ONSITE. 2. CLEAR AREAS NECESSARY FOR THE INSTALLATION OF PHASE I PERIMETER

CONTROLS. 3. INSTALL SILT FENCE AND TREE PROTECTION.

4. DEMOLISH EXISTING BUILDING, DECK, WALKWAY, STEPS AND DRIVEWAY. 5. OBTAIN TOWN INSPECTOR'S APPROVAL OF PHASE I IMPLEMENTATION AND PERMISSION TO PROCEED TO PHASE II.

### PHASE II IMPLEMENTATION

1. OBTAIN INSPECTOR'S APPROVAL TO BEGIN PHASE II CONSTRUCTION ACTIVITIES. 2. COMMENCE CONSTRUCTION OF PROPOSED UTILITIES.

3. COMMENCE CONSTRUCTION OF HOUSE WITH ASSOCIATED PORCH, DRIVEWAY AND WALKWAY. 4. INSTALL PLANTERS.

5. REMOVE EXISTING DRIVEWAY USED AS CONSTRUCTION ENTRANCE. 6. ONCE ALL AREAS HAVE BEEN STABILIZED, PERIMETER CONTROLS MAY BE REMOVED FROM THE GRADE SITE, WITH THE APPROVAL OF THE COUNTY INSPECTOR.

### Lime and Fertilizer Application Specs.

Lime 2 tons/acre Pulverized Agricultural Grade Limestone Mixed Grasses & Legumes 1000 lbs/acre 10-20-10 or Equiv.

Legume Stands Only 1000 lbs/acre 5-20-10 (23 lbs/acre) 1000 lbs/acre 10-20-10 or Equiv. Grass Stands Only

### **Seeding Mixtures**

Minimum Care Lawn - Kentucky 31 or Turf-Type Tall Fescue OR 175-200 lbs/acre - Common Bermudagrass\*\* 75 lbs/acre

High Maintenance Lawn - Kentucky 31 or Turf-Type Tall Fescue OR 200-250 lbs/acre - Hybrid Bermudagrass (seed)\*\* OR 40lbs/acre (unhulled) 30lbs/acre (hulled)

- Hybrid Bermudagrass (by other establishment method see Std & Spec 3.34)

General Slope (3:1 or less)

- Kentucky 31 Tall Fescue 128lbs/acre - Red Top Grass 2lbs/acre - Seasonal Nurse Crop\* 20 lbs/acre

150 lbs/acre Low Maintenance (Steeper than 3:1)

- Kentucky 31 Tall Fescue 93-108 lbs/acre · Common Bermuda Grass \*\* 0-15 lbs/acre - Red Top Grass 2 lbs/acre - Seasonal Nurse Crop\* 20 lbs/acre - Sericea Lespedeza\*\* 20lbs/acre

150lbs/acre \* Use seasonal nurse crop in accordance with seeding

Annual Rye February, March through April Foxtail Millet May 1st through August September, October through November 15th Annual Rye November 16th through January

\*\* May through October, use hulled seed. All other seeding periods, use unhulled seed. Weeping Lovegrass may be added to any slope or low maintenance mix during warmer seeding periods; add 10-20 lbs/acre in mixes.

Winter Rye

### Lime and Fertilizer Application Specs for Temporary Seeding

Re	c. Ap	plication
of	Aa. Li	mestone

below 4.2 3 tons per acre 4.2 to 5.2 2 tons per acre 5.2 to 6 1 ton per acre

Fertilizer shall be applied @ 600 lbs/acre of 10-20-10 (14 lbs/1000sf) or equiv.

### Temporary Seeding Application Specifications

Planting Dates	Species	(lbs/acre)
Sept. 1 - Feb. 15	50/50 Mix of	50-100
•	Annual Ryegrass	5
	& Cereal (winter)	)
	Ryegrass	
Feb. 16 - Apr 30	Annual Ryegrass	60-10

German Millet

### **GENERAL NOTES**

May 1 - Aug 31

I. EROSION AND SEDIMENT CONTROLS ARE NECESSARY IN ORDER TO PREVENT TRANSPORTATION OF SEDIMENTS DOWNSTREAM.

### 2. INSTRUCTION TO THE CONTRACTOR

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL & DUST CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP OF CLEARING. ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

### **GENERAL LAND CONSERVATION NOTES**

1. NO DISTURBED AREA WHICH IS NOT ACTIVELY BEING WORKED SHALL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR.

2. ALL E&S CONTROL MEASURES APPROVED WITH THE PHASE I E&S CONTROL PLAN SHALL BE PLACED AS THE FIRST STEP IN GRADING.

3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL. NO MORE THAN 500' SHALL BE OPEN AT ANYONE TIME.

4. ELECTRIC POWER. TELEPHONE AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL.

5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY (AS SOON AS POSSIBLE BUT NO LATER THAN 48HR) AFTER COMPLETION OF GRADING. STRAW OR HAY MULCH IS REQUIRED. ALL SOIL STOCKPILES SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING.

6. DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS, MAINTAINED AND MODIFIED DURING CONSTRUCTION PROGRESS AS REQUIRED.

7. ANY DISTURBED AREA NOT COVERED BY AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE (4483 KGIBA) AND OVER-SEEDED BY APRIL 15.

8. AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE. ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

### MINIMUM STANDARDS

#1:PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR MORE THAN THIRTY DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

#2:DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE

#3:A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREA NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

#4:SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

#5:STABILIZATION MEASURES SHAL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

#6:CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE FROSION, SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

#7:CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

#8.UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANOR THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE

D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.

E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

### **TEMPORARY SEEDING**

Selection of plants should be based on the specific site and season and per VESCH Tables 3.31-B&C Liming requirements should be based on Table 3.31-A of VESCH Fertilizers shall be applied as 600 lbs per acre. Fertilizer shall be incorporated into top 2 -4" of soil.

Seed shall be evenly applied and small grains shall be planted no more than 11/2 inches deep. Seeding made in fall for winter cover and during hot summer months shall be mulched.

Permanent vegetation cover must meet the requirements of minimum standards #3 (MS #3) Provide a note which describe the procedure followed in selecting plant

depending on climate, topography, soils and site conditions. The planting soil must have enough fine grained soil, sufficient pore space, sufficient depth and free from toxic or excessive quantities of roots and shall be applied in accordance with std. 3.30.

material. The selection should be based on Tables 3.32-A & B

Sodded areas shall be brought to final grade in accordance with the approved plans. Soil tests should be made to determine the exact requirements for lime and fertilizer. Prior to laying sod, soil surface shall be clear of trash, debris and large objects. Quality of sod shall be state certified and ensure genetic purity and high quality. Sod shall not be laid in excessively wet or dry weather and be delivered and installed with 36 hrs. Sod should not be laid on frozen soil surface and shall be installed per Plate 3.33-I of VESCH

Provision for dust control shall be made in accordance with STD. and SPEC. 3.39 of VESCH.

### **TABLE 3.32-D** (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

LAND USE	SPECIES	APPLICATION PER ACRE
	Tall Fescue <sup>1</sup>	95-10
Minimum Care Lawn	Perennial Ryegrass	0∹
(Commercial or Residential)	Kentucky Bluegrass <sup>1</sup>	0-
	62/10/00/00/00/00/00/00/00/00/00/00/00/00/	TOTAL: 175-200 I
High-Maintenance Lawn	Tall Fescue <sup>1</sup>	TOTAL: 200-250 I
	Tall Fescue <sup>1</sup>	128
General Slope (3:1 or less)	Red Top Grass or Creeping Red Fescue	21
General Stupe (3.1 of less)	Seasonal Nurse Crop <sup>2</sup>	<u>20 I</u>
	The second and transfer about the second and the se	TOTAL: 150 I
	Tall Fescue <sup>1</sup>	108 I
Low-Maintenance Slope	Red Top Grass or Creeping Red Fescue	21
(Steeper than 3:1)	Seasonal Nurse Crop <sup>2</sup>	20
Oteeper uran o. 17	Crownvetch <sup>3</sup>	<u>20 l</u>
,		TOTAL: 150

variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html

2 - Use seasonal nurse crop in accordance with seeding dates as stated below: February 16<sup>th</sup> - April ..... May 1st - August 15th ..... Foxtail Millet

August 16th - October ..

Winter Rve November - February 15th - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40

Annual Rye

### FERTILIZER & LIME

 Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. - Incorporate the lime and fertilizer into the top 4-6 inches of the soil by disking or by other means. When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin

# 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

### **TABLE 3.31-B** (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

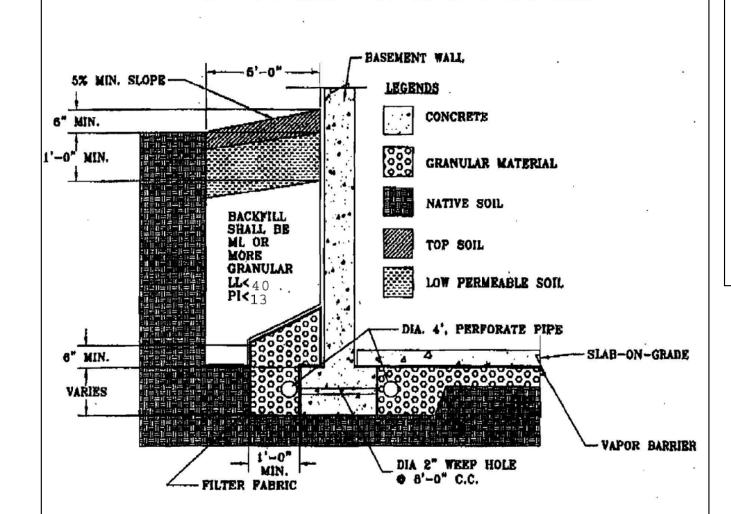
	<u>SEED</u>	
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi- florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

### **FERTILIZER & LIME**

 Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means. 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

# FOUNDATION DRAINAGE DETAIL



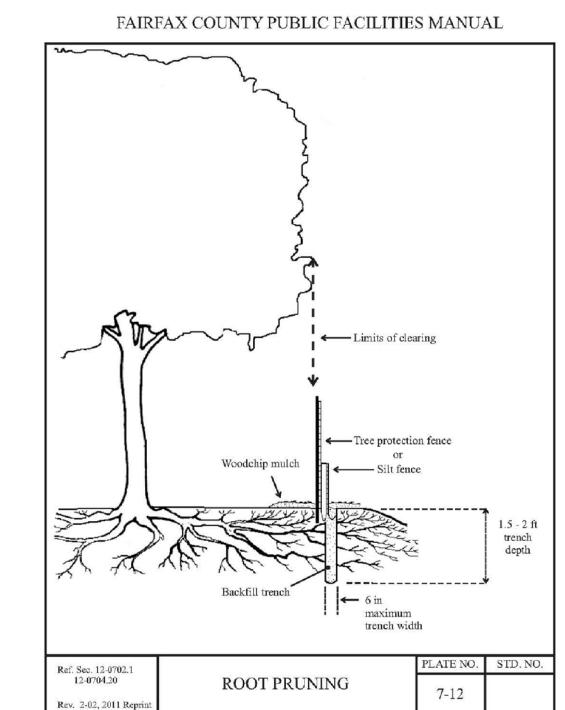
1. Foundation drain discharge shall be day lighted by gravity or ejected by sump

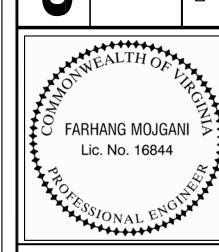
2. Youndation drain system shall not be connected to storm sewer, unless the gradient for the 100-yr storm is at least 1 ft below the lowest floor elevation at the point of connection.

3. Roof drains must discharge at least 5 ft away from the foundation walls. 4. Wall and slab reinforcing steel shall be per structural drawings.

# FENCING AND ARMORING BOARD FENCE -CORRECT METHODS OF TREE FENCING

TRIANGULAR BOARD FENCE





SCALE: AS SHOWN

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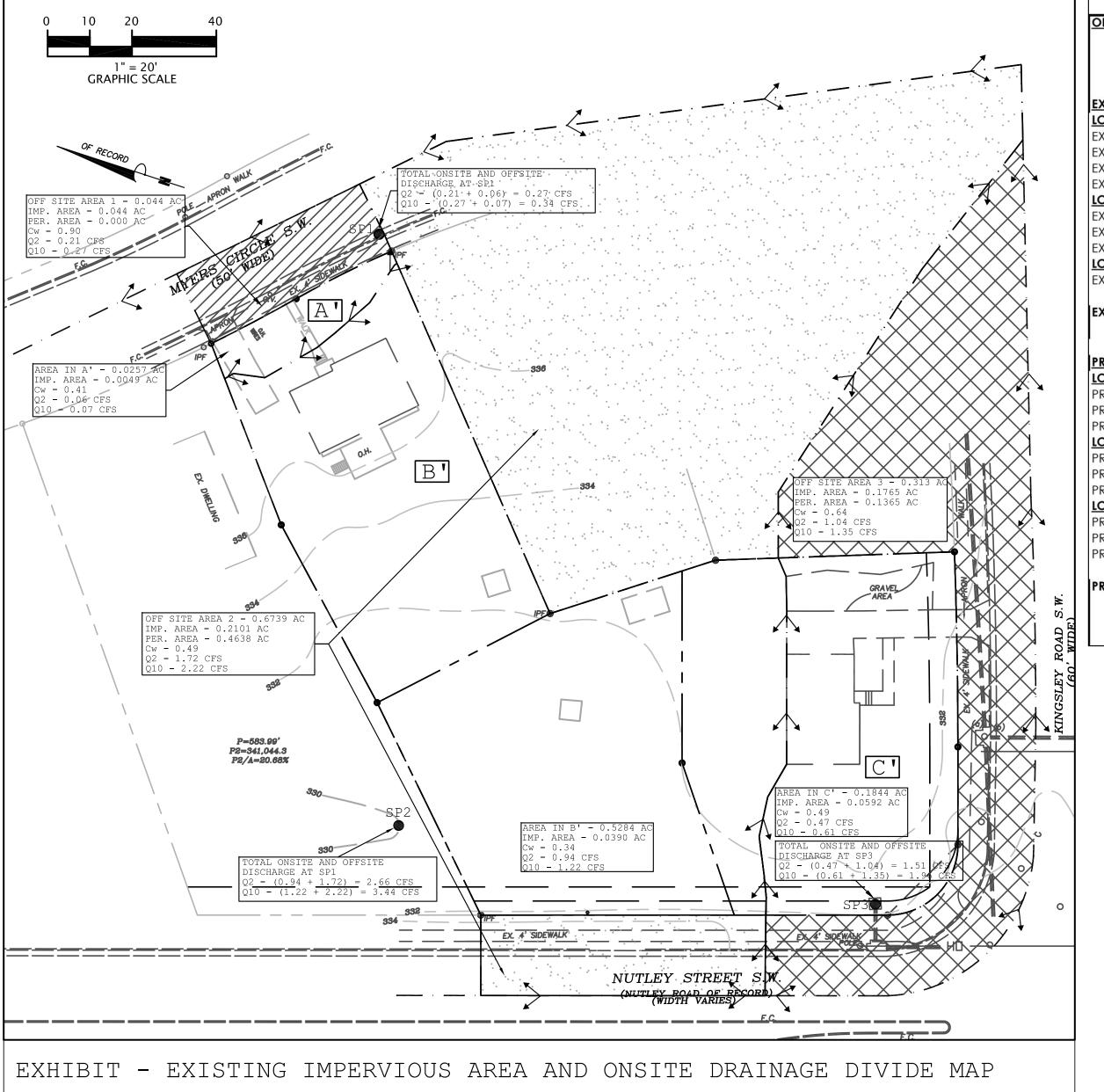
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SHEET NO.<u>5</u> OF <u>12</u> FILE. NO. 17-14

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St St

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PREDEVELOPED CONDITION

A'= 0.0257 AC

**IMP AREA** = 0.0049 AC

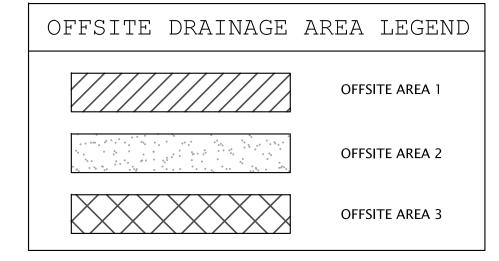
PER AREA = 0.0208 AC

From Area P1

Q2=(0.000+0.06-0.06)=0.00 CFS

Q10=(0.000+0.07-0.07)=0.00 CFS

107.155	- 00 1 / 7 05		
LOI AREA	32,167 SF		
	<b>0.7385</b> AC		
EXISTING CONDITION			
LOT #25A			
EXISTING BUILDING	1,276 SF		
EXISITNG WALKWAY	103 SF		
EXISITNG DRIVEWAY	281 SF		
exisitng shed	64 SF		
LOT #28A			
EXISTING BUILDING	982 SF		
EXISITNG WALKWAY	145 SF		
EXISITNG DRIVEWAY	1,452 SF		
LOT #28B			
exisitng shed	190 SF		
EXISTING TOTAL IMP. AREA	4,493 SF		
EXISTING TOTAL IMIT. AREA	0.1031 AC	12 0797	
	0.1031 AC	13.77/0	
PROPOSED CONDITION			
LOT #25A			
PROPOSED BUILDING AND STOOP	2,025 SF		
PROPOSED DRIVEWAY	447 SF		
PROPOSED WALKWAY	43 SF		
	70 01		
LOT #28A	40 01		
	2,142 SF		
PROPOSED BUILDING AND STOOP			
PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY	2,142 SF		
PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY PROPOSED WALKWAY AND STEPS	2,142 SF 404 SF		
PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY PROPOSED WALKWAY AND STEPS LOT #28B	2,142 SF 404 SF		
LOT #28A PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY PROPOSED WALKWAY AND STEPS LOT #28B PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY	2,142 SF 404 SF 58 SF		
PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY PROPOSED WALKWAY AND STEPS LOT #28B PROPOSED BUILDING AND STOOP	2,142 SF 404 SF 58 SF 1,728 SF		
PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY PROPOSED WALKWAY AND STEPS LOT #28B PROPOSED BUILDING AND STOOP PROPOSED DRIVEWAY	2,142 SF 404 SF 58 SF 1,728 SF 407 SF		



PREDEVELOPED CONDITION

POST DEVELOPED ONSITE RUNOFF:

From Area P1

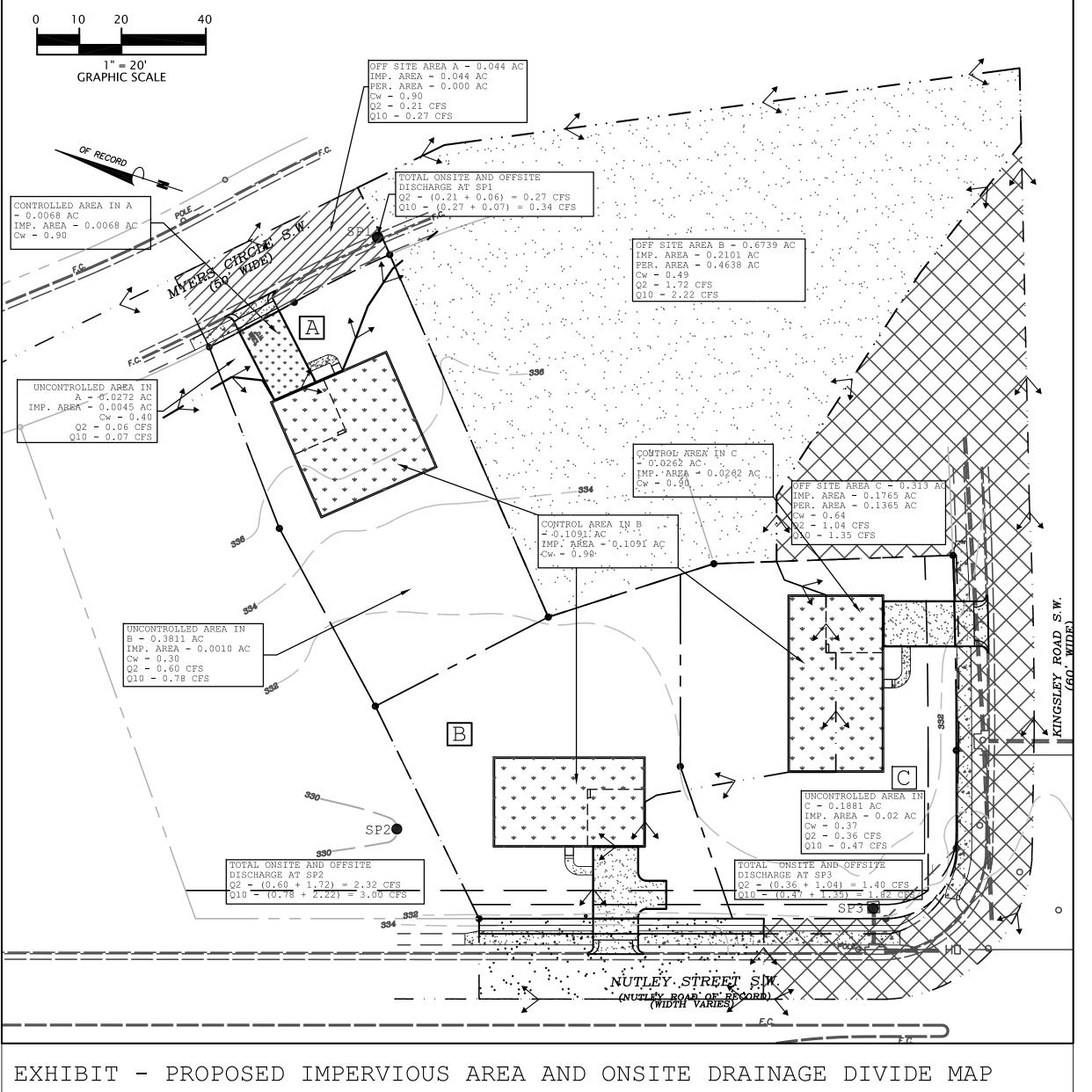
Q2=(0.000+0.36-0.47)=-0.11 CFS

Q10=(0.000+0.47-0.61)=-0.14 CFS

C'= 0.1844 AC

**IMP AREA** = 0.0592 AC

PER AREA = 0.1252 AC



### PRE DEVELOPED CONDITION:

### THE TOTAL SITE AREA IS 0.7385 AC.

AREA "A" OF 0.0257 AC SHEET FLOWS TO THE NORTH EAST TOWARDS THE CURB AND GUTTER ALONG MYERS CIRCLE S.W. THE RUNOFF FURTHER FLOWS TO THE EAST IN THE CURB AND GUTTER. THE RUNOFF EVENTUALLY GETS INTERCEPTED BY THE EXISTING STORM NETWORK AND JOINS HUNTERS POND.

AREA "B" OF 0.5284 AC SHEET FLOWS TO THE WEST TOWARDS THE EXISTING SWALE ON ADJACENT PROPERTY 24A. THE RUNOFF FURTHER FLOWS TO THE WEST TOWARDS THE CURB AND GUTTER ALONG NUTLEY ST S.W. THE RUNOFF EVENTUALLY GETS INTERCEPTED BY THE EXISTING STORM NETWORK AND JOINS HUNTERS POND.

AREA "C" OF 0.1844 AC SHEET FLOWS TO THE SOUTH TOWARDS THE EXISTING ONSITE INLET AND TOWARDS THE EXISTING INLET ON KINGSLEY ROAD S.W. THE RUNOFF FURTHER FLOWS DOWNSTREAM IN A CLOSED EXISTING STORM NETWORK.

EROSION AND SEDIMENT CONTROL MEASURES ARE PROVIDED TO PROTECT PUBLIC STREET AND ADJACENT PROPERTIES FROM SEDIMENTATION.

### PHASE 1 OUTFALL STATEMENT:

DISTURBED AREA IN SUBAREA A SHEET FLOWS TO THE NORTH EAST TOWARDS THE CURB AND GUTTER ALONG MYERS CIRCLE S.W. DISTURBED AREA IN SUBAREA B SHEET FLOWS TO WEST TOWARDS THE EXISTING SWALE ON ADJACENT PROPERTY 24A. DISTURBED AREA IN SUBAREA C SHEET FLOWS TO THE SOUTH TOWARDS THE EXISTING ONSITE INLET AND TOWARDS THE EXISTING INLET ON KINGSLEY ROAD S.W.

THE DISTURBED AREA IS SURROUNDED BY SILT FENCE. PROPERLY CONSTRUCTED AND MAINTAINED FENCE WILL DETAIN THE PHASE I RUNOFF. SO IN OUR OPINION THE PHASE I OUTFALL IS ADEQUATE.

### POST DEVELOPED CONDITION:

### THE TOTAL SITE AREA IS 0.7385 AC.

AREA "A" OF 0.034 AC SHEET FLOWS TO THE NORTH EAST TOWARDS THE CURB AND GUTTER ALONG MYERS CIRCLE S.W. THE RUNOFF FURTHER FLOWS TO THE EAST IN THE CURB AND GUTTER. THE RUNOFF EVENTUALLY GETS INTERCEPTED BY THE EXISTING STORM NETWORK AND JOINS HUNTERS POND.

OUT OF AREA 0.034 AC, 0.0068 AC OF IMPERVIOUS AREA IS CONTROLLED AND DETAINED BY PERMEABLE PAVER. SO THERE IS NO INCREASE IN RUNOFF IN PROPOSED DEVELOPMENT DUE TO DETENTION. THUS, THE PROPOSED DEVELOPMENT WILL NOT HAVE ANY ADVERSE EFFECTS ONTO THE DOWNSTREAM PROPERTIES.

AREA "B" OF 0.4902 AC SHEET FLOWS TO THE WEST TOWARDS THE EXISTING SWALE ON ADJACENT PROPERTY 24A. THE RUNOFF FURTHER FLOWS TO THE WEST TOWARDS THE CURB AND GUTTER ALONG NUTLEY ST S.W. THE RUNOFF EVENTUALLY GETS INTERCEPTED BY THE EXISTING STORM NETWORK AND JOINS HUNTERS POND.

OUT OF AREA 0.4902 AC, 0.1091 AC OF IMPERVIOUS AREA IS CONTROLLED AND DETAINED BY THE PLANTERS. DUE TO PROPOSED DEVELOPMENT THE RUNOFF DECREASES BY 0.34 AND 0.44 CFS IN 2 AND 10YR RESPECTIVELY. THUS, THE PROPOSED DEVELOPMENT WILL NOT HAVE ANY ADVERSE EFFECTS ONTO THE DOWNSTREAM PROPERTIES.

AREA "C" OF 0.2143 AC SHEET FLOWS TO THE SOUTH TOWARDS THE EXISTING ONSITE INLET AND TOWARDS THE EXISTING INLET ON KINGSLEY ROAD S.W. THE RUNOFF FURTHER FLOWS DOWNSTREAM IN A CLOSED EXISTING STORM NETWORK.

OUT OF AREA 0.2143 AC, 0.0262 AC OF IMPERVIOUS AREA IS CONTROLLED AND DETAINED BY THE PLANTERS. DUE TO PROPOSED DEVELOPMENT THE RUNOFF DECREASES BY 0.11 AND 0.14 CFS IN 2 AND 10YR RESPECTIVELY. THUS, THE PROPOSED DEVELOPMENT WILL NOT HAVE ANY ADVERSE EFFECTS ONTO THE DOWNSTREAM PROPERTIES.

THUS, THE PROPOSED DEVELOPMENT WILL NOT HAVE ANY ADVERSE EFFECTS ONTO THE DOWNSTREAM PROPERTIES.

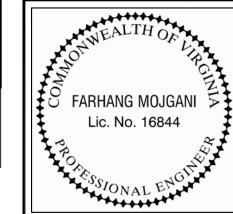
### **OVERLAND RELIEF NARRATIVE:**

FROM THE HIGH POINT IN SUB AREA A, THE 100 YR FLOOD WILL FLOW AROUND THE PROPOSED HOUSE TO THE NORTH EAST TOWARDS THE CURB AND GUTTER ALONG MYERS CIRCLE S.W. THE RUNOFF FURTHER FLOWS TO THE EAST IN THE CURB AND GUTTER.

THE 100 YR FLOOD FROM SUB AREA B WILL FLOWS TO THE WEST TOWARDS THE EXISTING SWALE ON ADJACENT PROPERTY 24A. THE RUNOFF FURTHER FLOWS TO THE WEST TOWARDS THE CURB AND GUTTER ALONG NUTLEY ST S.W.

THE 100 YR FLOOD FROM SUB AREA P3 WILL FLOWS TO THE SOUTH TOWARDS THE EXISTING ONSITE INLET AND TOWARDS THE EXISTING INLET ON KINGSLEY ROAD S.W.

THE OVERLAND RELIEF PATH IS SHOWN BY FLOW ARROWS ON SHEET 3.



SCALE: AS SHOWN

LAN OCK K B DIVIDE AND 28 WOOD GE D 'S 25 A IENNA  $\leq$ 

DRAINA(ION OF LOTSECTION 8 VII SWM

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SHEET NO.<u>6</u> OF <u>12</u> FILE. NO. <u>17-14</u>

0.41 0.34 0.49 CW = 0.41 CW = 0.34 CW = 0.49 12 = 5.2312 = 5.2312 = 5.23110 = 6.77110 = 6.77110 = 6.77Q2= 0.06 CFS Q2= 0.94 CFS Q2= 0.47 CFS Q10= 0.07 CFS Q10= 1.22 CFS Q10= 0.61 CFS POST DEVELOPED CONDITION POST DEVELOPED CONDITION POST DEVELOPED CONDITION CONTROLLED AREA A (BY PAVER) = 0.0068 AC CONTROLLED AREA C (BY PLANTER) = 0.0262 AC CONTROLLED AREA B (BY PLANTER) = 0.1091 AC **IMP AREA** = 0.0068 AC **IMP AREA** = 0.1091 AC **IMP AREA** = 0.0262 AC PER AREA = 0 AC PER AREA = 0.0000 AC PER AREA = 0 0.900 0.900 0.900 CW = 0.9 CW = 0.9 CW = 0.9 FROM PAVER = 0 CFS 2YR CFS 2YR CFS 2YR FROM PLANTER = 0 FROM PLANTER = 0 CFS 10YR CFS 10YR 10YR CFS UNCONTROLLED AREA A = 0.0272 AC UNCONTROLLED AREA A = 0.3811 AC UNCONTROLLED AREA C = 0.1881 AC IMP AREA = 0.0045 AC **IMP AREA** = 0.0010 AC **IMP AREA** = 0.0200 AC **PER AREA = 0.0227 AC PER AREA = 0.3801 AC PER AREA** = 0.1681 AC 0.399 0.302 0.364 CW = 0.4 CW = 0.3 CW = 0.37 12 = 5.2312 = 5.23 12 = 5.23110 = 6.77110 = 6.77110 = 6.77Q2= 0.06 CFS Q2= 0.60 CFS Q2= 0.36 CFS Q10= 0.07 CFS Q10= 0.77 CFS Q10= 0.47 CFS **POST DEVELOPED ONSITE RUNOFF:** 

POST DEVELOPED ONSITE RUNOFF:

From Area P1

Q10=(0.000+0.77-1.22)=-0.44 CFS

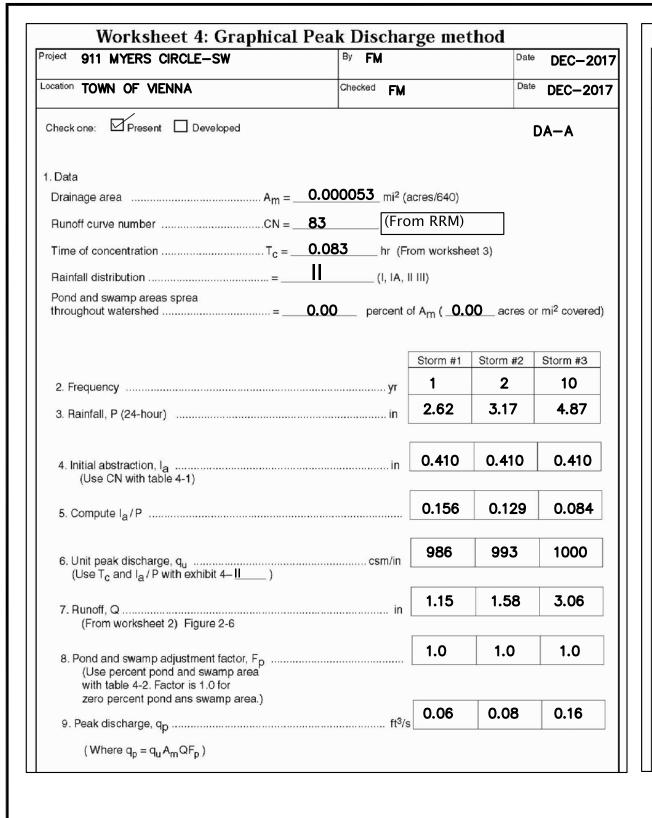
Q2=(0.000 + 0.60 - 0.94) = -0.34 CFS

PREDEVELOPED CONDITION

B'= 0.5284 AC

IMP AREA = 0.0390 AC

PER AREA = 0.4894 AC



oject 911 MYERS CIRCLE—SW		Ву	FM		Date	DEC-201
coation TOWN OF VIENNA		Che	ecked FM		Date	DEC-2017
Check one: Present Developed		'				DA-A
. Data						
Drainage area	A <sub>m</sub> = _	0.0000	<b>)53</b> _ mi² (a	acres/640)		
Runoff curve number	CN = _	85	(Frc	m RRM)		
Time of concentration	T <sub>c</sub> = _	0.083	hr (Fi	rom workshe	et 3)	
Rainfall distribution	=		(I, IA,	II III)		
Pond and swamp areas sprea throughout watershed	=	0.00	percent of	of Am ( O.C	O acres o	or mi <sup>2</sup> covered
Throughout Matorollog		0.00	_ porodin .	or 1/11 (	40,00	
				Storm #1	Storm #2	Storm #3
2. Frequency			yr	1	2	10
O Beinfall B (Od beaux)				2.62	3.17	4.87
3. Rainfall, P (24-hour)	•••••		in			
3. Hainfall, P (24-nour)			in	2.02		
4. Initial abstraction, Ia				0.353	0.353	0.353
				0.353	0.353	0.353
4. Initial abstraction, Ia			in			
4. Initial abstraction, I <sub>a</sub> (Use CN with table 4-1)			in	0.353	0.353	0.353
4. Initial abstraction, I <sub>a</sub> (Use CN with table 4-1)			in	0.353	0.353	0.353
4. Initial abstraction, I <sub>a</sub>	)		in	0.353	0.353 0.111 997	0.353
4. Initial abstraction, I <sub>a</sub>	)		in	0.353 0.135 991	0.353	0.353
4. Initial abstraction, I <sub>a</sub>	)		in	0.353 0.135 991	0.353 0.111 997	0.353
4. Initial abstraction, I <sub>a</sub>	) F <sub>p</sub>		in	0.353 0.135 991 1.27	0.353 0.111 997 1.73	0.353 0.072 1000 3.25
4. Initial abstraction, I <sub>a</sub>	F <sub>p</sub>		in	0.353 0.135 991 1.27 1.0	0.353 0.111 997 1.73	0.353 0.072 1000 3.25

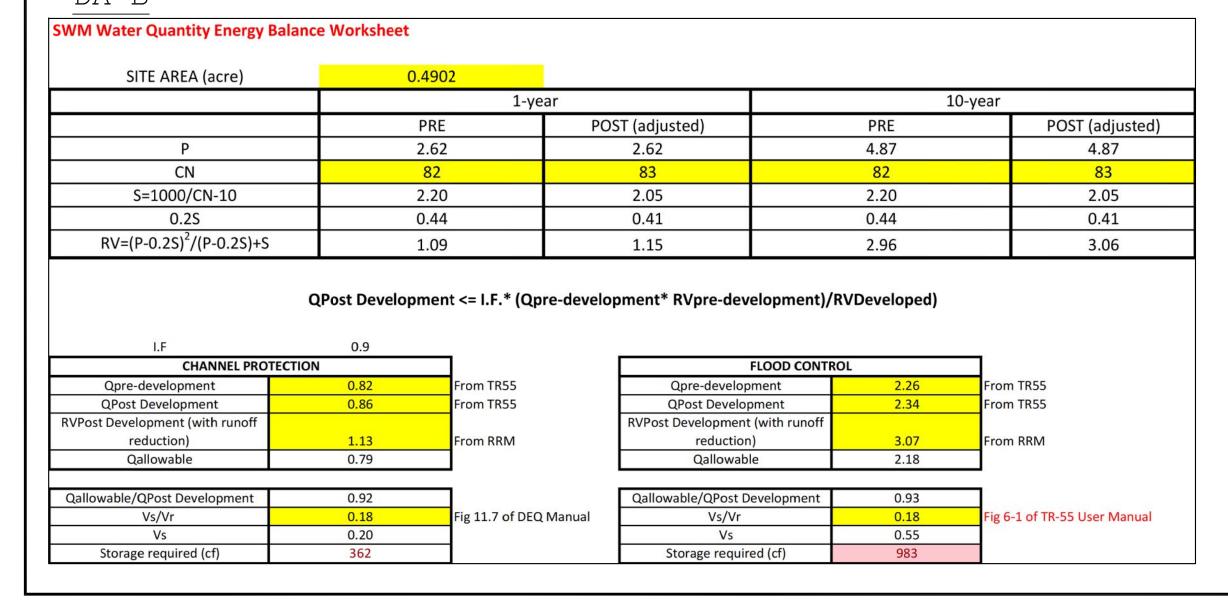
## DA-A**SWM Water Quantity Energy Balance Worksheet**

SITE AREA (acre)	0.	034			
		1-year		10-year	
	F	PRE P	OST (adjusted)	PRE	POST (adjusted
Р	2	.62	2.62	4.87	4.87
CN		83	85	83	85
S=1000/CN-10	2	.05	1.76	2.05	1.76
0.2S	C	.41	0.35	0.41	0.35
RV=(P-0.2S) <sup>2</sup> /(P-0.2S)+S	1	15	1.27	3.06	3.25
	QPost Developn	nent <= I.F.* (Qpre-deve	opment* RVpre-development)/	RVDeveloped)	
I.F	QPost Developn	nent <= I.F.* (Qpre-deve	opment* RVpre-development)/	RVDeveloped)	
I.F  CHANNEL PROTEC	0.9	nent <= I.F.* (Qpre-deve	opment* RVpre-development)/		
	0.9	nent <= I.F.* (Qpre-deve		ROL	om TR55
CHANNEL PROTEC	0.9 <b>TION</b>		FLOOD CONT	<b>ROL</b> 0.16 Fro	om TR55 om TR55
CHANNEL PROTEC  Qpre-development  QPost Development	0.9 <b>TION</b>	From TR55	FLOOD CONTI	<b>ROL</b> 0.16 Fro	
CHANNEL PROTEC  Qpre-development  QPost Development	0.9 <b>TION</b>	From TR55	FLOOD CONTI Qpre-development QPost Development	0.16 Fro	
Qpre-development QPost Development RVPost Development (with runoff	0.9 TION 0.06 0.07	From TR55 From TR55	PLOOD CONTE	0.16 Fro	om TR55
Qpre-development QPost Development RVPost Development (with runoff reduction) Qallowable	0.9 TION 0.06 0.07 1.26 0.05	From TR55 From TR55	Qpre-development QPost Development RVPost Development (with runoff reduction) Qallowable	3.26 0.15	om TR55
Qpre-development QPost Development RVPost Development (with runoff reduction)	0.9 TION 0.06 0.07	From TR55 From TR55	Qpre-development QPost Development RVPost Development (with runoff reduction)	3.26 0.15	om TR55

Storage required (cf)

# DA-B

Storage required (cf)



			By <b>FM</b>		Da	DEC-201
tion TOWN OF VIENNA			Checked FM		Da	te DEC-201
eck one: Present Developed						DA-B
)ata						
rainage area	A <sub>m</sub> = _	0.00	<b>0765</b> _ mi <sup>2</sup> (a	acres/640)		
unoff curve number	CN = _	82	(Fro	om RRM)		
me of concentration	T <sub>c</sub> = _	0.08	<b>3</b> hr (Fi	rom workshe	et 3)	
ainfall distribution	=		(I, IA,	II III)		
ond and swamp areas sprea roughout watershed	=	0.00	percent	of A <sub>m</sub> ( <b>0.</b> (	00 acres	or mi <sup>2</sup> covered
				III V		
				Storm #1	Storm #2	Storm #3
requency			yr	1	2	10
B. Rainfall, P (24-hour)			in	2.62	3.17	4.87
4. Initial abstraction, I <sub>a</sub>			in	0.439	0.439	0.439
(Use CN with table 4-1)						
5. Compute I <sub>a</sub> /P		·····		0.17	0.14	0.09
6. Unit pook disabargo a			aom/in	983	990	1000
6. Unit peak discharge, q <sub>u</sub> (Use T <sub>C</sub> and I <sub>a</sub> / P with exhibit 4– <u>II</u>	)	••••	CSIII/III			
7. Runoff, Q			in	1.09	1.51	2.96
(From worksheet 2) Figure 2-6						
8. Pond and swamp adjustment factor	r, F <sub>p</sub>			1.0	1.0	1.0
(Use percent pond and swamp a with table 4-2. Factor is 1.0 for	rea					
zero percent pond ans swamp ar	ea.)			0.82	1.14	2.26

Project 911 MYERS CIRCLE—SW		By FM		Da	te DEC-2017
ocation TOWN OF VIENNA		Checked FM		Da	ate DEC-2017
Check one: Present Developed					DA-B
1. Data					
Drainage areaA <sub>m</sub> =	0.00	00765_ mi² (a	acres/640)		
Runoff curve numberCN =	83_	(Fro	m RRM)		
Time of concentrationT <sub>C</sub> =	30.0	33hr (Fr	om workshe	et 3)	
Rainfall distribution=		(I, IA, I	I III)		
Pond and swamp areas sprea throughout watershed=_	0.00	percent o	of A <sub>m</sub> ( <b>_0.0</b>	00_ acres	or mi <sup>2</sup> covered)
		[	Storm #1	Storm #2	Storm #3
2. Frequency		yr	1	2	10
3. Rainfall, P (24-hour)		in	2.62	3.17	4.87
4. Initial abstraction, I <sub>a</sub> (Use CN with table 4-1)		in	0.410	0.410	0.410
5. Compute I <sub>a</sub> /P			0.156	0.129	0.084
6. Unit peak discharge, q <sub>u</sub> (Use T <sub>C</sub> and I <sub>a</sub> / P with exhibit 4– <u>II</u> )		csm/in	986	993	1000
		in	1.15	1.58	3.06
7. Runoff, Q(From worksheet 2) Figure 2-6			4.0	1.0	1.0
(From worksheet 2) Figure 2-6  8. Pond and swamp adjustment factor, F <sub>D</sub>			1.0		
(From worksheet 2) Figure 2-6			1.0		
(From worksheet 2) Figure 2-6  8. Pond and swamp adjustment factor, F <sub>p</sub> (Use percent pond and swamp area with table 4-2. Factor is 1.0 for			0.86	1.20	2.34

Worksheet 4: Gragiet 911 MYERS CIRCLE-SW			By FM			DEC-2017
cation TOWN OF VIENNA			Checked FM		Dat	*DEC-2017
heck one: Present Developed	I				I	DA-C
Data						
Drainage area	A <sub>m</sub> = _	0.00	0334_ mi² (8	acres/640)		
Runoff curve number	CN = _	83	(Frc	m RRM)		
Time of concentration	T <sub>c</sub> = _	0.08	13 hr (Fi	om workshe	et 3)	
Rainfall distribution	=		(I, IA,	I III)		
Pond and swamp areas sprea throughout watershed	=	0.00	percent of	of A <sub>m</sub> ( <b>_0.0</b>	00_ acres o	or mi <sup>2</sup> covered
				Storm #1	Storm #2	Storm #3
2. Frequency			yr	1	2	10
3. Rainfall, P (24-hour)			in	2.62	3.17	4.87
4. Initial abstraction, I <sub>a</sub> (Use CN with table 4-1)			in	0.410	0.410	0.410
5. Compute I <sub>a</sub> /P				0.156	0.129	0.084
6. Unit peak discharge, q <sub>u</sub> (Use T <sub>C</sub> and I <sub>a</sub> / P with exhibit 4– <u>I</u>	)		csm/in	986	993	1000
7. Runoff, Q(From worksheet 2) Figure 2-6			in	1.15	1.58	3.06
Pond and swamp adjustment factor     (Use percent pond and swamp)				1.0	1.0	1.0
with table 4-2. Factor is 1.0 for zero percent pond ans swamp a						
9. Peak discharge, q <sub>D</sub>			ft <sup>3</sup> /s	0.38	0.52	1.02
٦.,٠						

ct 911 MYERS CIRCLE-SW			By FM		Date	DEC-201
tion TOWN OF VIENNA			Checked FM		Dat	°DEC-2017
eck one: Present Developed						DA-C
ata						
rainage area	A <sub>m</sub> = _	0.00	0 <b>334</b> _ mi <sup>2</sup> (8	acres/640)		
unoff curve number	CN = _	83	(Frc	m RRM)		
me of concentration	T <sub>c</sub> = _	0.08	3 hr (Fr	rom workshe	et 3)	
ainfall distribution	=	Ш	(I, IA, I	II III)		
and and swamp areas sprea		0.00	energy like.		20	.2
oughout watershed	=	0.00	percent o	or A <sub>m</sub> (_ <b>U.</b> (	JO acres o	or mi- covered
			Ĭ	Storm #1	Storm #2	Storm #3
				Storiii #1	St01111 #2	5101111#3
			10000	1	2	10
				1	2	10
				1 2.62	3.17	10 4.87
. Rainfall, P (24-hour)			in	2.62	3.17	4.87
. Rainfall, P (24-hour)			in			
Rainfall, P (24-hour) Initial abstraction, I <sub>a</sub> (Use CN with table 4-1)			in	2.62	3.17	4.87
Rainfall, P (24-hour)			in	2.62	0.410	0.410
Rainfall, P (24-hour)			in	2.62	0.410	0.410
Rainfall, P (24-hour)			in	2.62 0.410 0.156	3.17 0.410 0.129	4.87 0.410 0.084
Rainfall, P (24-hour)  Initial abstraction, I <sub>a</sub>			in	2.62 0.410 0.156	3.17 0.410 0.129	4.87 0.410 0.084
Rainfall, P (24-hour)  Initial abstraction, I <sub>a</sub>			in	2.62 0.410 0.156 986	3.17 0.410 0.129 993	4.87 0.410 0.084 1000
Rainfall, P (24-hour)  Initial abstraction, I <sub>a</sub>	) F <sub>D</sub>		in	2.62 0.410 0.156 986	3.17 0.410 0.129 993	4.87 0.410 0.084 1000
Rainfall, P (24-hour)  Initial abstraction, I <sub>a</sub>	) F <sub>D</sub>		in	2.62 0.410 0.156 986 1.15	3.17 0.410 0.129 993 1.58	4.87 0.410 0.084 1000 3.06
5. Compute I <sub>a</sub> /P  6. Unit peak discharge, q <sub>u</sub> (Use T <sub>c</sub> and I <sub>a</sub> /P with exhibit 4— II  7. Runoff, Q  (From worksheet 2) Figure 2-6  8. Pond and swamp adjustment factor,  (Use percent pond and swamp are	) F <sub>D</sub>		in	2.62 0.410 0.156 986 1.15	3.17 0.410 0.129 993 1.58	0.410 0.08 1000 3.06

### $D \Lambda - C$

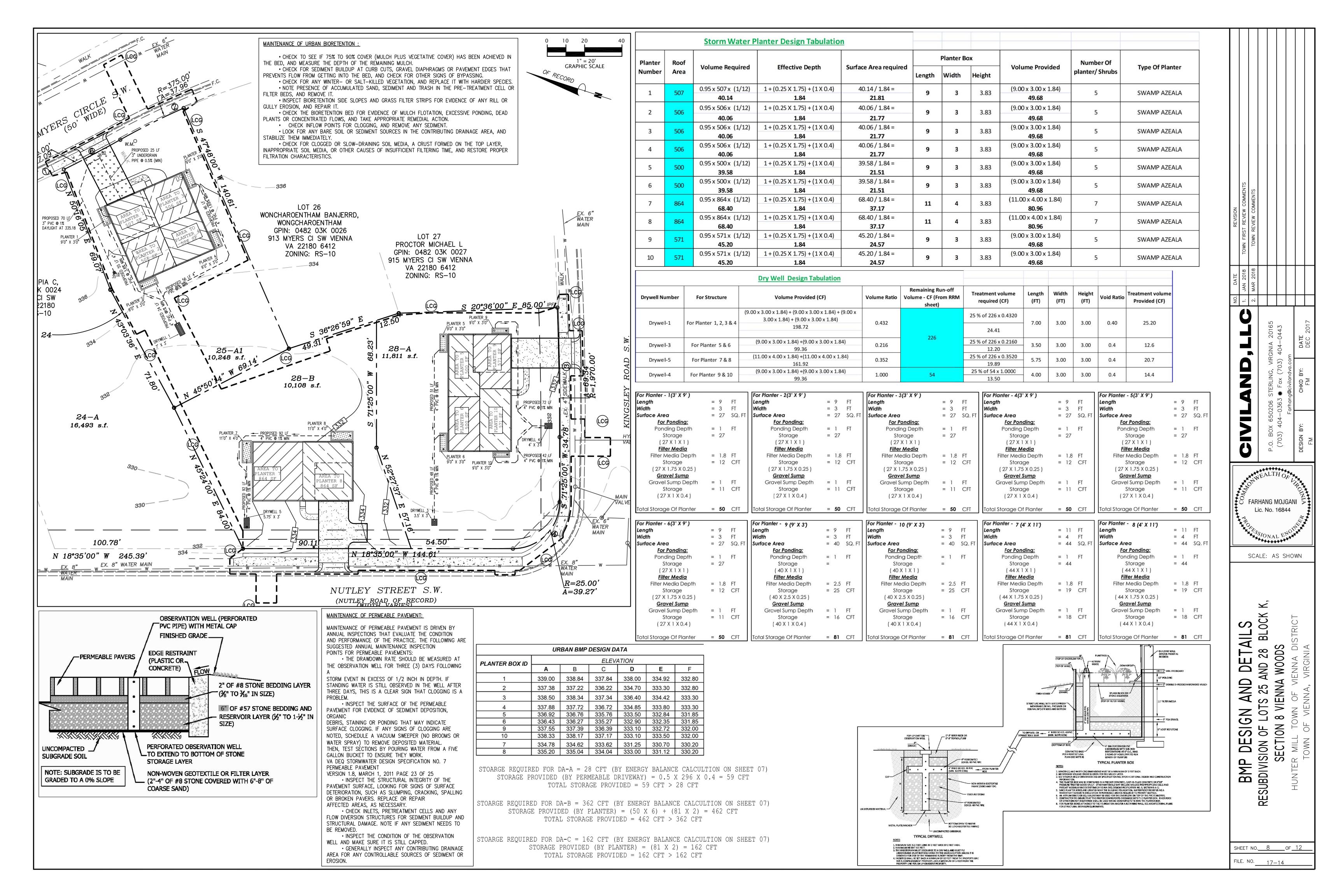
PRE 4.87 83 2.05	POST (adjusted) 4.87 83
PRE 4.87 83	POST (adjusted) 4.87 83
PRE 4.87 83	POST (adjusted) 4.87 83
PRE 4.87 83	POST (adjusted) 4.87 83
4.87 83	4.87 83
83	83
AND	
2.05	2.05
	2.05
0.41	0.41
3.06	3.06
CONTROL	$\neg$
1.02	From TR55
1.02	From TR55
unoff	
3.11	From RRM
1.00	
	_
	Sin C 1 of TD SS Upon Married
the second secon	Fig 6-1 of TR-55 User Manual
	_
ı	1.02 unoff 3.11

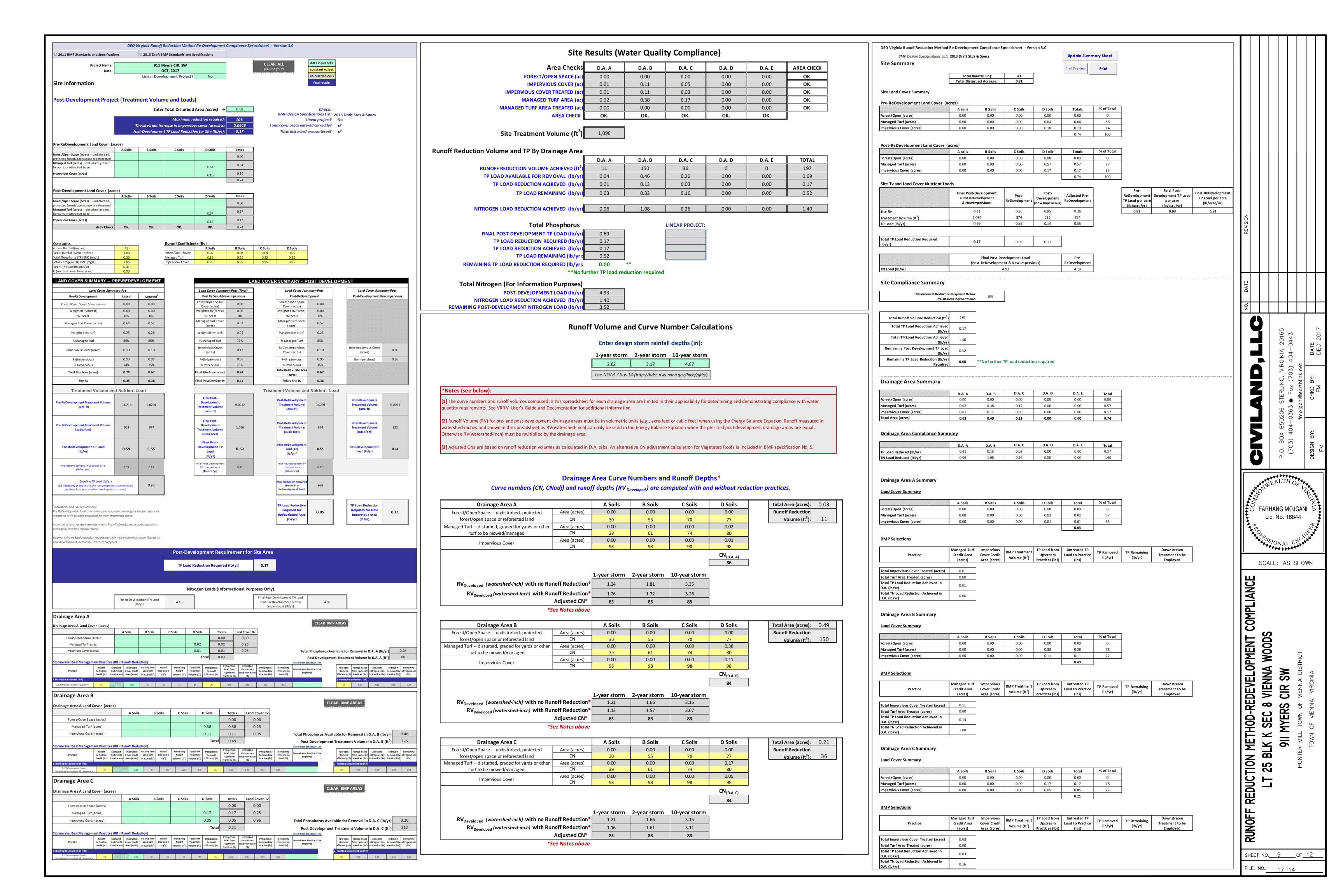
REVISION							
NO. DATE							
			P.O. BOX 650206 STERLING, VIRGINIA 20165	(703) 404-0363 • Fax (703) 404-0443	Farhang@civilandva.com	<u>;</u>	FM DEC 2017
	در کورس	EA	LT.	H <sub>O</sub>	y v	<b>X</b> .	

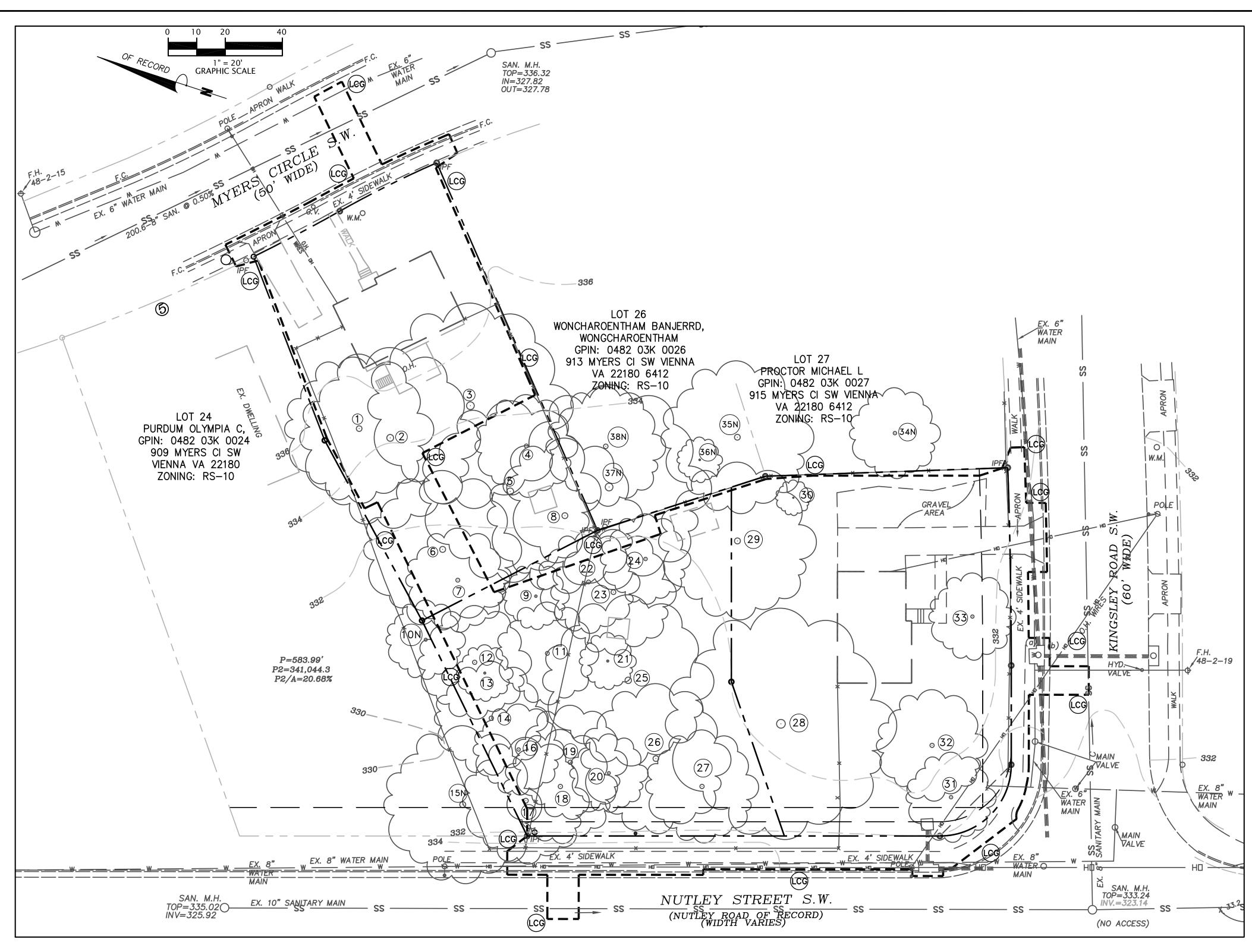
SCALE: AS SHOWN

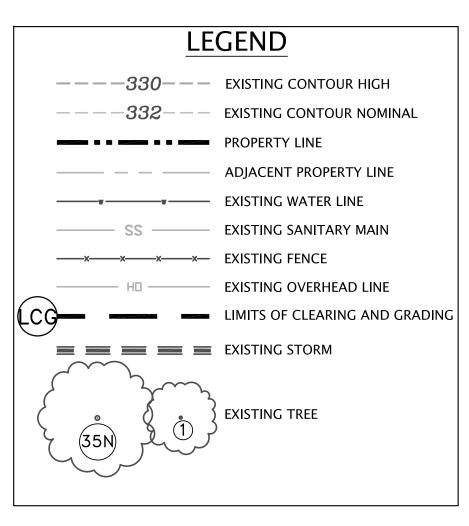
ENERGY BALANCE CALCULATION
RESUBDIVISION OF LOTS 25 AND 28 BLOCK K,
SECTION 8 VIENNA WOODS

FILE. NO. 17-14









EXISTING V RESUBDIVISION OF L SECTION 8

SHEET NO. 10 OF 12 FILE. NO. 17-14

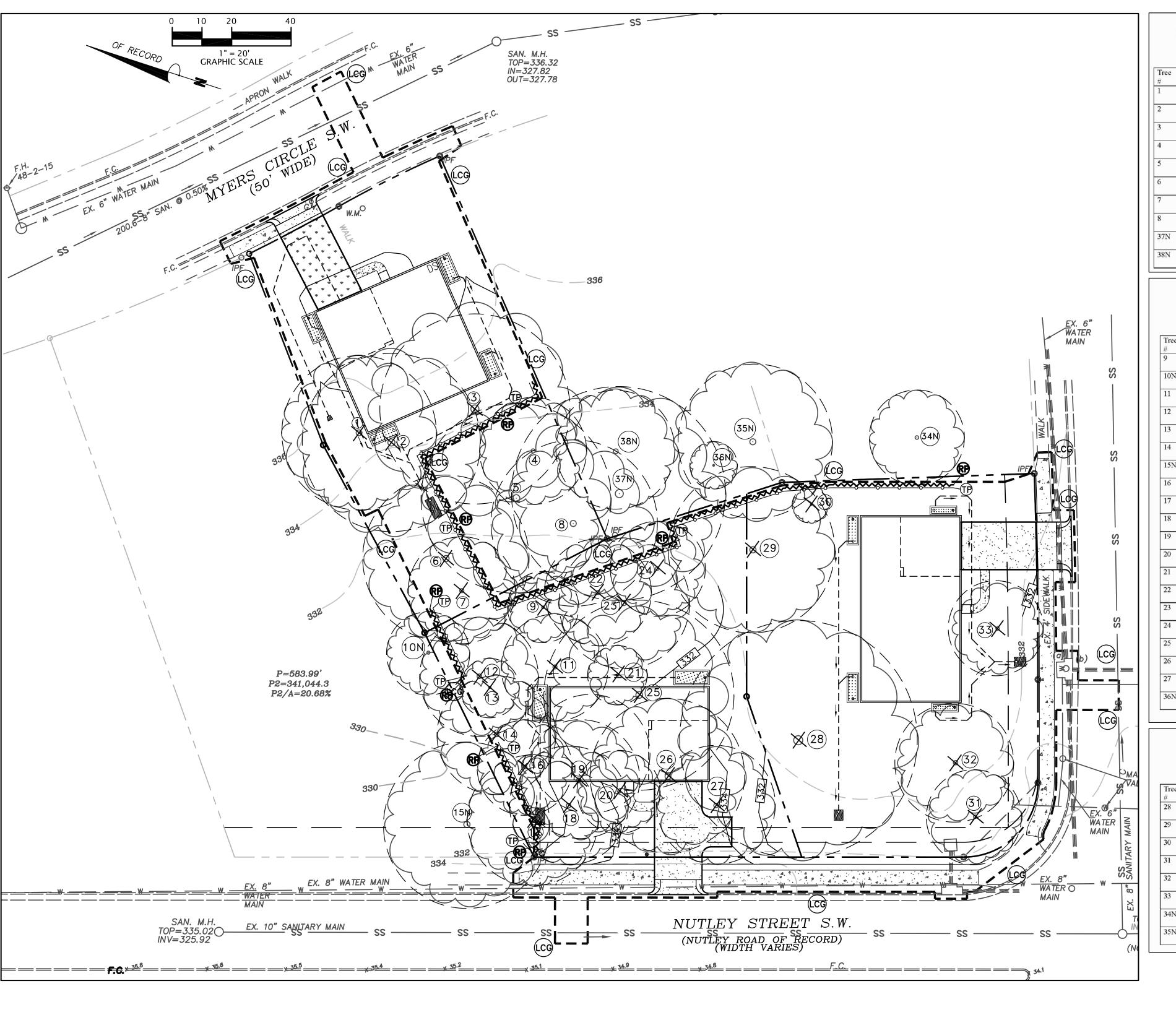
VEGETATION MAP

F LOTS 25 AND 28 BLOCK K

ON 8 VIENNA WOODS

Lic. No. 16844

SCALE: AS SHOWN



### Tree List for 911 Myers Cir. SW, Vienna, VA

Prepared by Bill Becker, ISA Certified Arborist # MA-0216A October 23, 2017 Lot size = 10,248 s. f. requiring 2,050 s. f. tree canopy.

Preserved tree canopy = 1,500 s. f.N denotes neighbor's tree. R denotes City ROW tree.

Tree #	Common Name Botanical name	DBH	Condition	Life Exp.	Preservation Measures	Canopy Sq. Ft.
1	Pin Oak Quercus palustris	26"	Fair	>7	Remove – within limits of disturbance.	N/A
2	Red Maple Acer rubrum	30"	Good	>10	Remove – within limits of disturbance.	N/A
3	White Oak Quercus alba	32"	Good	>10	Remove – within limits of disturbance.	N/A
4	White Oak Quercus alba	18"	Good	>10	Save – install protective fence. Root prune along fence.	N/A
5	White Oak Quercus alba	32"	Good	>10	Save – install protective fence. Root prune along fence.	1500
6	Red Maple Acer rubrum	28"	Good	>10	Remove – within limits of disturbance.	N/A
7	White Ash Fraxinus americana	18"	Dead	0	Remove – within limits of disturbance.	N/A
8	White Oak Quercus alba	28"	Good	>10	Save – install protective fence. Root prune along fence.	N/A
37N	Tulip Poplar Liriodendron tulipifera	36"	Good	>10	Save – install protective fence. Root prune along fence.	N/A
38N	Red Maple Acer rubrum	20"	Good	>10	Save – install protective fence. Root prune along fence.	N/A

### Tree List for Nutley St. SW, Vienna, VA Prepared by Bill Becker, ISA Certified Arborist # MA-0216A October 23, 2017

Preserved tree canopy = 0 s. f. N denotes neighbor's tree. R denotes City ROW tree.

Lot size = 10,108 s. f. requiring 2,022 s. f. tree canopy.

Tree #	Common Name Botanical name	DBH	Condition	Life Exp.	Preservation Measures	Canop Sq. Ft.
9	Red Maple	12"	Fair	>7	Remove – within limits of	N/A
,	Acer rubrum	12	T un		disturbance.	14021
10N	White Ash	14"	Dead	0	Save – install protective fence.	N/A
	Fraxinus americana	1.		-	and many processing resident	
11	Sycamore	18"	Good	>10	Remove – within limits of	N/A
	Platanus occidenralis				disturbance.	
12	Red Maple	20"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
13	Red Maple	10"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
14	Red Maple	20"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
15N	Sycamore	28"	Good	>10	Save – install protective fence.	N/A
	Platanus occidenralis				Root prune along fence.	
16	Pin Oak	16"	Good	>10	Remove – within limits of	N/A
	Quercus palustris				disturbance.	
17	Red Maple	22"	Fair, pruned	>7	Remove – within limits of	N/A
	Acer rubrum		by power co		disturbance.	
18	Red Maple	20"	Fair, pruned	>7	Remove – within limits of	N/A
	Acer rubrum		by power co		disturbance.	
19	Pin Oak	20"	Fair, pruned	>7	Remove – within limits of	N/A
	Quercus palustris		by power co		disturbance.	
20	White Ash	14"	Poor,	<2	Remove – within limits of	N/A
	Fraxinus americana		declining		disturbance.	
21	Sycamore	10"	Good	>10	Remove – within limits of	N/A
	Platanus occidenralis				disturbance.	
22	Red Maple	18"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
23	Sycamore	22"	Good	>10	Remove – within limits of	N/A
	Platanus occidenralis				disturbance.	
24	Red Maple	16"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
25	Pin Oak	32"	Dead	0	Remove – within limits of	N/A
	Quercus palustris				disturbance.	
26	White Ash	26"	Poor,	<2	Remove – within limits of	N/A
	Fraxinus americana		declining		disturbance.	
27	Red Maple	20"	Poor,	<5	Remove – within limits of	N/A
	Acer rubrum		topped		disturbance.	
36N	Wild Cherry	8"	Good	>10	Save – install protective fence.	N/A
	Prunus serotina				Root prune along fence.	

### Tree List for 713 Kingsley Rd. SW, Vienna, VA Prepared by Bill Becker, ISA Certified Arborist # MA-0216A October 23, 2017 Lot size = 11,811 s. f. requiring 2,362 s. f. tree canopy.

Preserved tree canopy = 0 s. f.

**LEGEND** 

PROPERTY LINE

——×——×——×— EXISTING FENCE

EXISTING STORM

---330--- Existing contour high

EXISTING CONTOUR NOMINAL

ADJACENT PROPERTY LINE

EXISTING SANITARY MAIN

EXISTING OVERHEAD LINE

LIMITS OF CLEARING AND GRADING

—**▼**— EXISTING WATER LINE

Tree	Common Name Botanical name	DBH	Condition	Life	Preservation Measures	Canopy
Ħ	Until Etteration to the Control of t			Exp.		Sq. Ft.
28	Red Maple	40"	Fair, has	>7	Remove – within limits of	N/A
	Acer rubrum		cavity		disturbance.	
29	Red Maple	28"	Good	>10	Remove – within limits of	N/A
	Acer rubrum				disturbance.	
30	Crab Apple	6"	Fair	>10	Remove – within limits of	N/A
	Malus sylvestris				disturbance.	
31	Eastern Redcedar	16"	Good	>10	Remove – within limits of	N/A
	Juniperus virginiana				disturbance.	
32	Arbor Vitae	20"	Good	>10	Remove – within limits of	N/A
	Thuja occidentalis				disturbance.	
33	Kwanzan Cherry	16"	Good	>10	Remove – within limits of	N/A
	Prunus kwanzan				disturbance.	
34N	Red Maple	16"	Good	>10	Save – install protective fence.	N/A
	Acer rubrum				Root prune along fence.	
35N	Red Maple	26"	Good	>10	Save – install protective fence.	N/A

Root prune along fence.

**LEGEND** 

EXISTING TREE TO BE REMOVED

EXISTING TREE TO REMAIN

CRITICAL ROOT ZONE

### **Becker Landscaping & Tree Service** 10698 Moore Dr. Manassas, Va. 20111 703-330-5204

### Narrative of Tree Preservation 911 Myers Cir. SW, Vienna, Va.

- All tree preservation activities shall be done according to the Town of Vienna Tree Protection, Preservation and Replacement Guide dated May 2014 (Updated September, 2015) and meet industry standards as specified by the International Society of Arboriculture and the American National Standards Institute. Any treatments or activities specified not meeting these standards will be as specified and approved by the Vienna
- Urban Forester. Excavation and demolition shall occur. Prior to excavation super silt fence which will also function as tree protective fence shall be installed. Signs shall be placed every 50' indicating the tree protection areas. No activity, materials or equipment shall go beyond the tree protective fence which shall remain in place until completion of construction
- Root pruning shall be performed for trees #4, 5, 8, 37N and 38N. This will be a trench 18" deep with the roots cut so there is no tearing or pulling of roots beyond the trench
- Due to the scope of construction some of the existing trees are to be removed. The canopy coverage requirements will be met through the preservation and planting of trees.
- There are no dead or hazardous trees to be removed in the tree preservation area. The shed near tree # 8 will be removed by hand. There are no human health or safety risks in forested areas.
- There are no "Heritage", "Specimen", "Memorial" or "Street" trees on this lot or
- New trees and shrubs shall be planted according to the Town of Vienna Tree Preservation and Planting Specifications Manual.

### **Becker Landscaping & Tree Service** 10698 Moore Dr. Manassas, Va. 20111 703-330-5204

### Narrative of Tree Preservation Nutley St. SW, Vienna, Va.

- All tree preservation activities shall be done according to the Town of Vienna Tree Protection, Preservation and Replacement Guide dated May 2014 (Updated September, 2015) and meet industry standards as specified by the International Society of Arboriculture and the American National Standards Institute. Any treatments or activities specified not meeting these standards will be as specified and approved by the Vienna Urban Forester. Excavation and demolition shall occur. Prior to excavation super silt fence which will
- also function as tree protective fence shall be installed. Signs shall be placed every 50' indicating the tree protection areas. No activity, materials or equipment shall go beyond the tree protective fence which shall remain in place until completion of construction. Root pruning shall be performed for trees # 15N and 36N. This will be a trench 18" deep
- with the roots cut so there is no tearing or pulling of roots beyond the trench wall. Due to the scope of construction all of the existing trees are to be removed. The canopy coverage requirements will be met through the planting of trees.
- There are no dead or hazardous trees to be removed in the tree preservation area. There are no human health or safety risks in forested areas.
- There are no "Heritage", "Specimen", "Memorial" or "Street" trees on this lot or New trees and shrubs shall be planted according to the Town of Vienna Tree Preservation and Planting Specifications Manual.

ISA Certified Arborist # MA – 0216A October 23, 2017

### **Becker Landscaping & Tree Service** 10698 Moore Dr. Manassas, Va. 20111

703-330-5204 Narrative of Tree Preservation

> All tree preservation activities shall be done according to the Town of Vienna Tree Protection, Preservation and Replacement Guide dated May 2014 (Updated September, 2015) and meet industry standards as specified by the International Society of Arboriculture and the American National Standards Institute. Any treatments or activities specified not meeting these standards will be as specified and approved by the Vienna

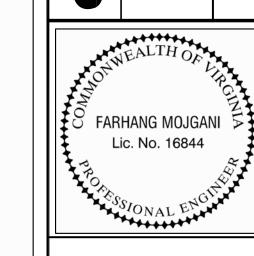
713 Kingsley Rd. SW, Vienna, Va.

- Urban Forester. Excavation and demolition shall occur. Prior to excavation super silt fence which will also function as tree protective fence shall be installed. Signs shall be placed every 50' indicating the tree protection areas. No activity, materials or equipment shall go beyond
- the tree protective fence which shall remain in place until completion of construction. Root pruning shall be performed for trees #34N and 35N. This will be a trench 18" deep with the roots cut so there is no tearing or pulling of roots beyond the trench wall.

Due to the scope of construction all of the existing trees are to be removed. The canopy

- coverage requirements will be met through the planting of trees. There are no dead or hazardous trees to be removed in the tree preservation area.
- There are no human health or safety risks in forested areas. There are no "Heritage", "Specimen", "Memorial" or "Street" trees on this lot or
- New trees and shrubs shall be planted according to the Town of Vienna Tree Preservation and Planting Specifications Manual.

ISA Certified Arborist # MA – 0216A October 23, 2017



SCALE: AS SHOWN

LAN TION PLAS AND 28 BLAY WOODS

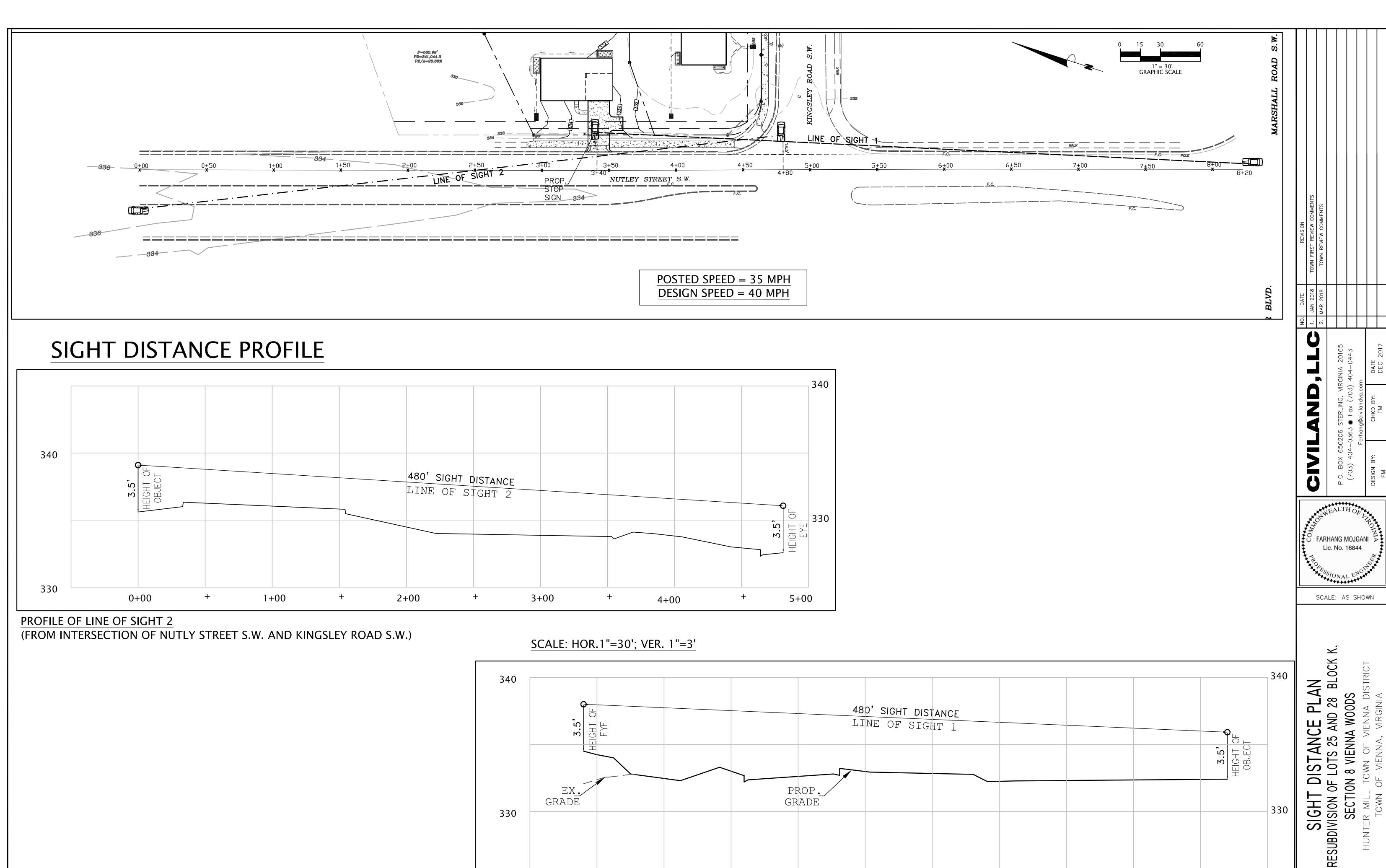
TREE PRESERVATION BDIVISION OF LOTS 25 AN SECTION 8 VIENNA V

TESUBE

CONTROL LEGEND NO. KEY SYMBOL 3.38 TP TREE PROTECTION 7-12 | ROOT PRUNING RP **-**

EROSION AND SEDIMENT

SHEET NO. 11 OF 12 FILE. NO. 17-14



EX. GRADE PROP.\_\_ GRADE 330 7+00 8+00 6+00 3+50 4+00 5+00

PROFILE OF LINE OF SIGHT 1 (FROM THE ENTRANCE OF LOT 28-B)

SHEET NO. 12 OF 12 FILE. NO. 17-14