

GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

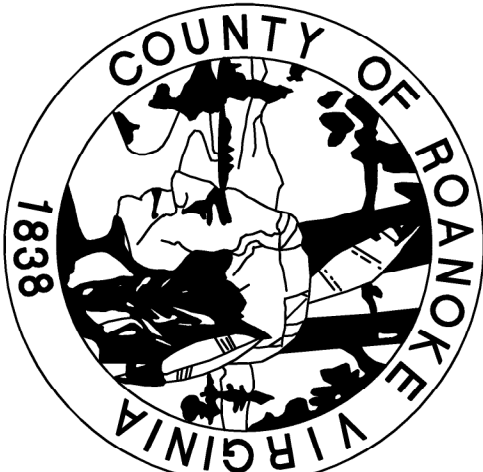
1. All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation.
2. Stormwater Management Agreements with an attached 8 1/2" x 11" or 8 1/2" x 14" plat must be approved and recorded prior to the pre-construction meeting.
3. Once all required items are submitted to the County of Roanoke, the developer must contact the Development Review Coordinator to indicate that a pre-construction meeting needs to be scheduled. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
4. All land disturbing projects that require approval of an erosion and sediment control plan, grading or clearing permit shall require that the applicant provide the name of an individual who will be responsible for and disturbing activities and that the individual be a resident of Roanoke County. (The individual must be a resident of Roanoke Environmental Quality. The Responsible Land Disturber can be anyone from the Project team that is certified by the Commonwealth of Virginia to be in charge of carrying out the land disturbing activity for the project.
5. It is the responsibility of the owner/developer to notify the certified Responsible Land Disturber and the Utility Contractor to attend the pre-construction meeting.
6. The Development Review Coordinator will schedule the pre-construction meeting with the owner/developer, the Utility Contractor, the Virginia Department of Virginia Water Authority and the Town of Vinton Public Works Department if applicable.
7. An approved set of plans, Storm Water Pollution Prevention Plan (SWPPP), VSNP Coverage Letter, and all permits must be available at the construction site at all times.
8. The developer and/or contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.
9. The project engineer will inform the owner/developer verbally and in writing of the County's obligation to perform inspections on site. Everyone in the meeting will be responsible for ensuring that the project complies with the knowledge of Roanoke County's obligation to perform inspections on site.
10. The Erosion Control Permit or Combined Erosion Control & VSNP Permit is given to the developer at this pre-construction meeting.
11. Notify the County of Roanoke prior to beginning installation of ESC measures. The County will inspect that installation to ensure compliance with approved plan prior to beginning any grading or construction on the property.
12. County inspectors must inspect storm drain / stormwater management / BMP installation during the process of installation. Please contact the site inspector 24 hours in advance.
13. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation inspectors.
14. Contractors shall notify utilities of proposed construction at least two (2) but not more than ten (10) working days in advance. Area public utilities may be notified thru Miss Utility : 1-800-552-7001 or VA 511.
15. The 100 year Floodway shall be staked prior to any construction.
16. Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all times of construction.
17. The Department of Community Development shall be notified when a spring is encountered during construction.
18. Construction debris shall be contained in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.
19. The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets or rights of ways. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control or stormwater management policies.
21. Field construction shall honor proposed drainage divides as shown on plans.
22. Field corrections shall be approved by the Roanoke County Engineering Division and/or the Western Virginia Water Authority and the Professional of Record, prior to such construction.
23. The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Built plans before final acceptance.

VIRGINIA DEPARTMENT OF TRANSPORTATION:

24. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
25. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
26. The preliminary pavement designs should be based on a predicted sub-grade CBR value of 7.0 and with a Resiliency Factor (RF) of 2.0 as shown in Appendix 1 of the 2000 Virginia Department of Transportation Pavement Design Guide for Subdivision Projects. The design should be based on the results of a geotechnical investigation laboratory and the results submitted to the Virginia Department of Transportation prior to base construction. Should the sub-grade CBR value and/or the RF value be less than the predicted values, additional base material will be required in accordance with Departmental specifications. Refer to the same manual as the number and locations of the required soil samples to be tested. All pavement designs shall be submitted to the Department for review and approval. The sub-grade shall be approved by the Virginia Department of Transportation prior to placement of the base. Base shall be approved by the Virginia Department of Transportation to depth, template, and compaction before the surface is applied.
27. Standard guardrail with safety end sections may be required on fills or in areas where hazards exist as deemed necessary. After completion of rough grading operations, the County Engineer and Virginia Department of Transportation shall be contacted to review the guardrail design and the guard rail shall be installed in accordance with VDOT Road and Bridge Standards as part of this development.
28. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
29. All traffic devices shall be in accordance with current edition of the Manual on Uniform Traffic Control Devices (MUTCD).
30. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet **N/A** for Stormwater Site Statistics Table.
See Sheet **N/A** for New BMP Information Table.

The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction meeting.
The notes on this sheet shall not be modified.



COUNTY OF ROANOKE, VA

LILA DRIVE

NAME OF DEVELOPMENT :		OWNER:	
LILA DRIVE		COUNTY OF ROANOKE DEPARTMENT OF COMMUNITY DEVELOPMENT ROANOKE, VIRGINIA 24018	
MASTERAL DISTRICT(S) :		HOLLINS	
CONTRACTOR:		SUBJECT TO BID	
ENGINEER:		CALDWELL WHITE ASSOCIATES P.O. BOX 6260 ROANOKE, VIRGINIA 24017	
TAX MAP NO(S) :		27-06-5-13	

WATER NOTES

All water facilities shall be constructed according to the Western Virginia Regional Design and Construction Standards (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering valve vaults after paving and adjustment to final grade if necessary.

All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12VACS-590-1150, where lines cross).

All trenches in existing or future highway right-of-ways shall be connected according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Regional Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 p.s.i.

Western Virginia Water Authority
Availability either number: **N/A**

SEWER NOTES

All sanitary sewer facilities shall be installed according to the Western Virginia Regional Design and Construction Standards. (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering all manholes after paving. Manhole tops shall be adjusted to grade if necessary.

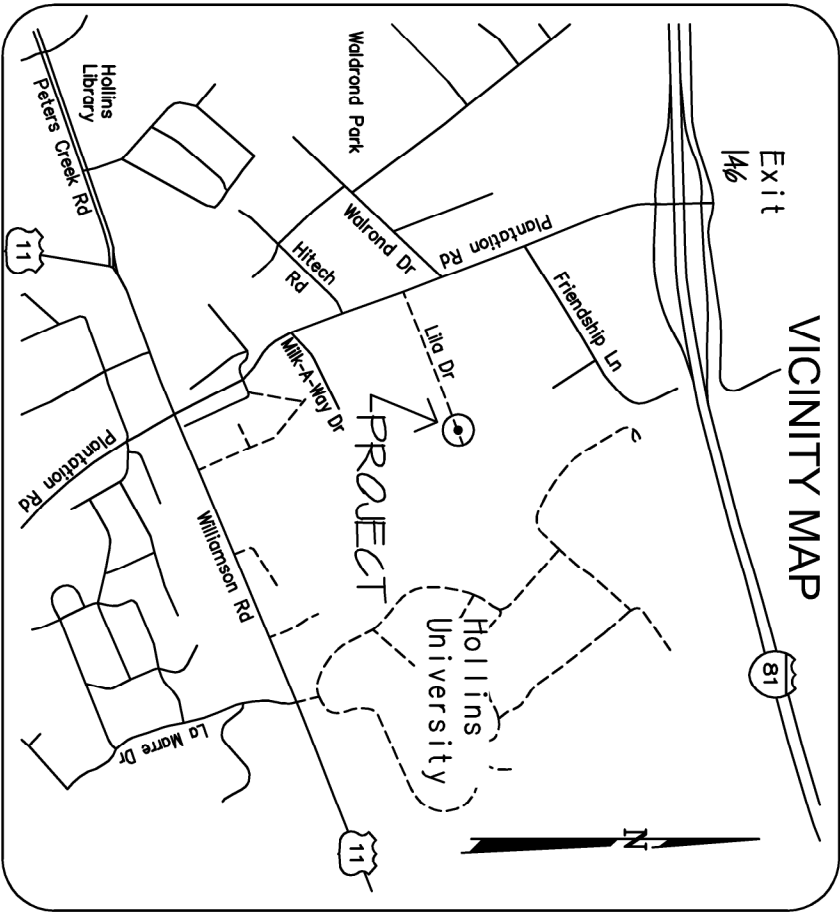
All existing utilities may not be shown in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12VACS-590-1150, where lines cross).

All trenches in existing or future rights-of-way shall be connected according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

PRIVATE UTILITIES

Underground utilities installed on private property or in private utility easements and building related storm drains shall be designed and installed per the current edition of the Virginia Uniform Statewide Building Code, Design and Installation Manual, and the Virginia Department of Transportation's (VDOT) standards. The USBC requirements are acceptable for private utilities. All private utilities are to be permitted through and inspected by the Roanoke County Inspections Office. Valves, valves and other devices installed by or under the control of the Western Virginia Water Authority may not substituted for the code required devices.



SHEET	TITLE
C-1	COVER SHEET
C-2	DEMOLITION PLAN
C-3	DIMENSIONAL PLAN
C-4	GRADING PLAN
C-5	EROSION & SEDIMENT CONTROL PLAN
C-6	EROSION & SEDIMENT CONTROL DETAILS
C-7	TEMPORARY TRAFFIC CONTROL PLAN
C-6	PAVEMENT REPAIR PLAN

LEGEND

Property Line	---
Right-of-way	---
Centerline	---
Minimum Building Line	---
Existing Storm Sewer	---
Existing Sanitary Sewer	---
Existing Water Main	---
Existing Contour	---
Proposed Contour	---
Proposed Drainage Divide	---
Proposed Limits of Clearing	---
Proposed Storm Sewer	---
Proposed Sanitary Sewer	---
Proposed Water Main	---

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: _____
By: _____

All vertical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or 1988. All horizontal elevations must be referenced to the North American Datum of 1927 or 1983.

Horizontal Datum: **N/A** Vertical Datum: **NAD 88**


Source of topographic mapping is dated: **CALDWELL WHITE ASSOCIATES**

Boundary was performed by **CALDWELL WHITE ASSOCIATES** dated **MARCH, 2015**

Benchmark Information: **SEE SHEET C-4**

QUANTITY & COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BIDDABLE
CHURNING AND GRABBING		AC			
EXCAVATION		C.Y.			
EMBANKMENT		C.Y.			
CURB INLET D.		EA			
CURB INLET D.		EA			
MANHOLE MH-		EA			
MANHOLE MH-		EA			
-IN CONCRETE PIPE CLASS III		LF			
-IN CONCRETE PIPE CLASS IV		LF			
-IN CM CULVERT		LF			
-IN CM CULVERT		LF			
BOX CULVERT		LS			
PAVED SWALE		LF			
RIPRAP CLASS		SF			
PERMANENT GRASS SWALE		LF			
-IN CONCRETE ENHWALL EXP-		EA			
-IN END SECTION IS-		EA			
HEADER CURB & GUTTER CG-					
CURB & GUTTER CG-					
VALLEY CUTTER					
GRAVEL BASE					
GRAVEL SHOULDER					
SURFACE TREATMENT					
-IN BIT CONC.: TYPE B					
-IN BASE MATERIAL					
-IN SUBBASE MATERIAL					
TRAFFIC BARRICADE					
-IN WATER LINE		LF			
-IN WATER LINE		LF			
FIRE HYDRANT ASSEMBLIES		EA			
BLOW OFFS W/ VALVE, FRAME & COVER		EA			
-IN GATE VALVES W/ VALVE, FRAME & COVER		EA			
-IN GATE VALVES W/ VALVE, FRAME & COVER		EA			
-IN SANITARY SEWER		LF			
STANDARD MANHOLE W/FRAME & COVER		EA			
SAMPIING MANHOLE/PORT		EA			
LANDSCAPING		LS			
AS-BUILT PLANS (STORM SEWER SYSTEMS)		LS			
AS-BUILT PLANS (STORMWATER MANAGEMENT)		LS			
10% CONTINGENCY					
ESTIMATED TOTAL					

**CWA**
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
4203 MELROSE AVENUE, N.W.
P.O. BOX 6260
ROANOKE, VIRGINIA 24017
(540) 366-3400
EMAIL: CWAROANOKE@AOL.COM

Designed: J.V.Judy
Drawn: J.V.Judy
Checked: F.B.Caldwell
Date: 11/09/15
N.B. No.: R/cCo 8
W.O. No.: 15-0060



Revisions

- # 1 12/08/15
per ROANOKE COUNTY 1st REVIEW
- # 2 8/02/17
per ROANOKE COUNTY 2nd REVIEW

APPROVED

Date Stamp

Approval Stamp

ROAD IMPROVEMENTS
LILA DRIVE
ROANOKE COUNTY, VA

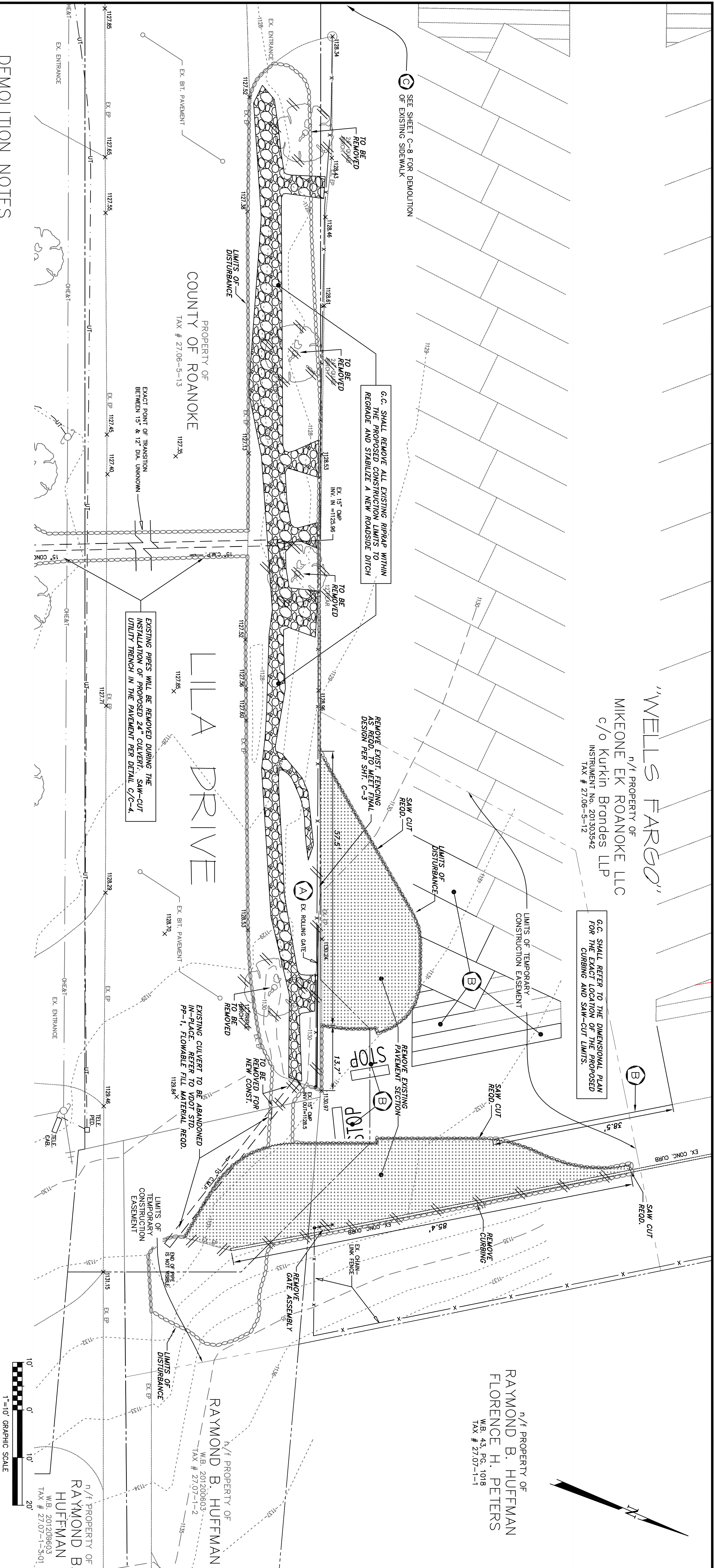
SHEET

C-1

"WELLS FARGO"
n/f PROPERTY OF
MIKEONE EK ROANOKE LLC
c/o Kurkin Brandes LLP
INSTRUMENT No. 201303542
TAX # 27.06-5-12

G.C. SHALL REFER TO THE DIMENSIONAL PLAN
FOR THE EXACT LOCATION OF THE PROPOSED
CURBING AND SAW-CUT LIMITS.

n/f PROPERTY OF
RAYMOND B. HUFFMAN
FLORENCE H. PETERS
W.B. 43, PG. 1018
TAX # 27.07-1-1



DEMOLITION NOTES

ALL REQUIRED PERMITS, FEES AND LICENSES SHALL BE SECURED AND PAID FOR BY THE GENERAL CONTRACTOR FROM ALL APPLICABLE AGENCIES PRIOR TO BEGINNING ANY CONSTRUCTION. G.C. SHALL ALSO BE RESPONSIBLE FOR ANY DISPOSAL CHARGES, ETC AS MAY BE REQUIRED.

THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES IDENTIFIED ON THE DRAWINGS ARE BASED ON OPERATING SURVEYS, AND AVAILABLE RECORDS. THE LOCATION, DEPTH AND CHARACTERISTICS OF ANY UTILITIES IDENTIFIED ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY DIGGING OR ANY CONSTRUCTION ACTIVITY IN THE VICINITY.

THE G.C. SHALL CONTACT "MISS UTILITIES OF VIRGINIA" AT 800-257-7777, (OR 811 LOCALLY) TO HAVE ANY UNDERGROUND CABLE, ELECTRIC, GAS, SANITARY SEWER, TELEPHONE OR WATER SERVICES LOCATED IN THE VICINITY OF ANY DIGGING.

DEMOLITION SHALL INCLUDE, UNLESS OTHERWISE NOTED ON THE DRAWINGS, REMOVAL OF EXISTING STRUCTURES OR THE CONSTRUCTION OF NEW STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING CURBING, CONCRETE SIDEWALK, ENTRANCES, BUILDING FOUNDATIONS AND TREES AND BRUSH, ETC THAT ARE DEMOLISHED SHALL BECOME PROPERTY OF THE G.C., UNLESS NOTED, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT.

WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES IN DEMOLITION OF EXISTING PAVEMENT, CURBS AND GUTTERS, DRAINAGE STRUCTURES AND UTILITIES AS MAY BE REQUIRED.

CONTRACTOR SHALL SAW-CUT ALL JOINTS WHERE EXISTING CURBING, PAVEMENT, ETC. IS TO BE DEMOLISHED AND NEW CONSTRUCTION JOINS THE EXISTING.

CONTRACTOR SHALL COMPLETELY FILL ALL AREAS AND VOIDS FROM DEMOLITION AND OR REMOVAL OF STRUCTURES (UNDERGROUND FUEL STORAGE TANK, BASEMENTS, WELLS, ETC.) USING APPROVED, COMPACTED SELECT FILL MATERIAL. PAVEMENT DEBRIS, ETC. SHALL NOT BE USED AS FILL MATERIAL ON THE SITE.

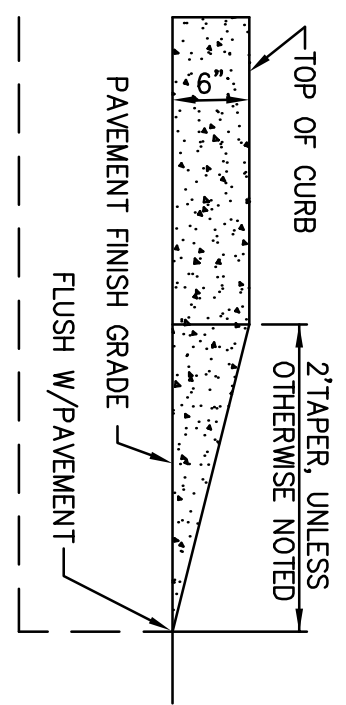
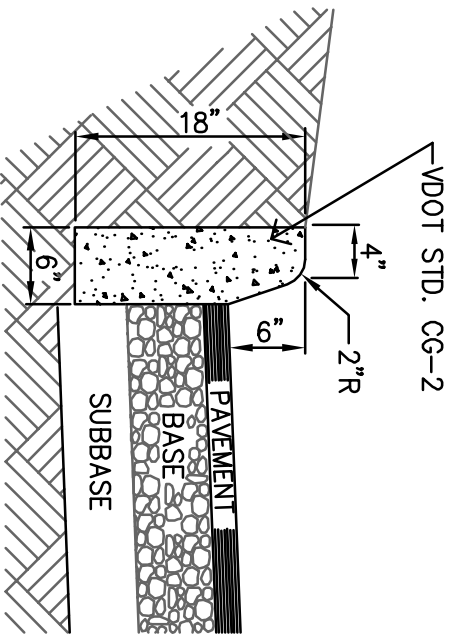
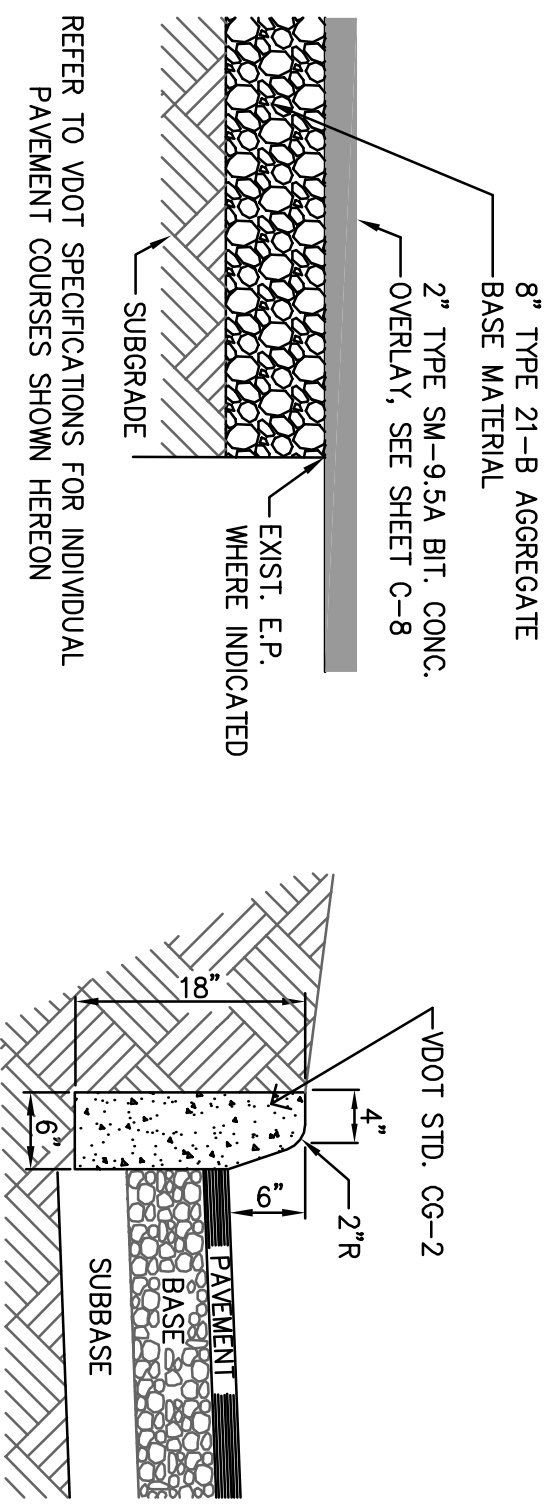
AREAS DISTURBED OR DAMAGED, THAT WERE NOT IDENTIFIED ON THE PLANS, OR AREAS THAT ARE OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE RESTORED, AT THE G.C.'s EXPENSE, TO THE SATISFACTION OF THE OWNERS.

SPECIAL INSTRUCTIONS

- A** THE GENERAL CONTRACTOR SHALL BE REQUIRED TO REMOVE THE EXISTING ROLLING GATE ASSEMBLY AND SAFE-KEEP UNTIL IT CAN BE RELOCATED AS INDICATED ON SHEET C-3.
- B** EXIST LINE STRIPING, WORDING AND STOP BARS TO BE PAINTED OVER WITH A BLACKOUT PAINT, TINTED TO MATCH THE EXISTING ASPHALT COLOR.
- C** REMOVE EXISTING 3' BRICK SIDEWALK AND BASE, RESTORE AREA WITH TOPSOIL AND SEEDING. SEE SHEET C-8 FOR LOCATION.

REVISED AUGUST 2, 2017 (PER ROANOKE COUNTY COMMENTS)

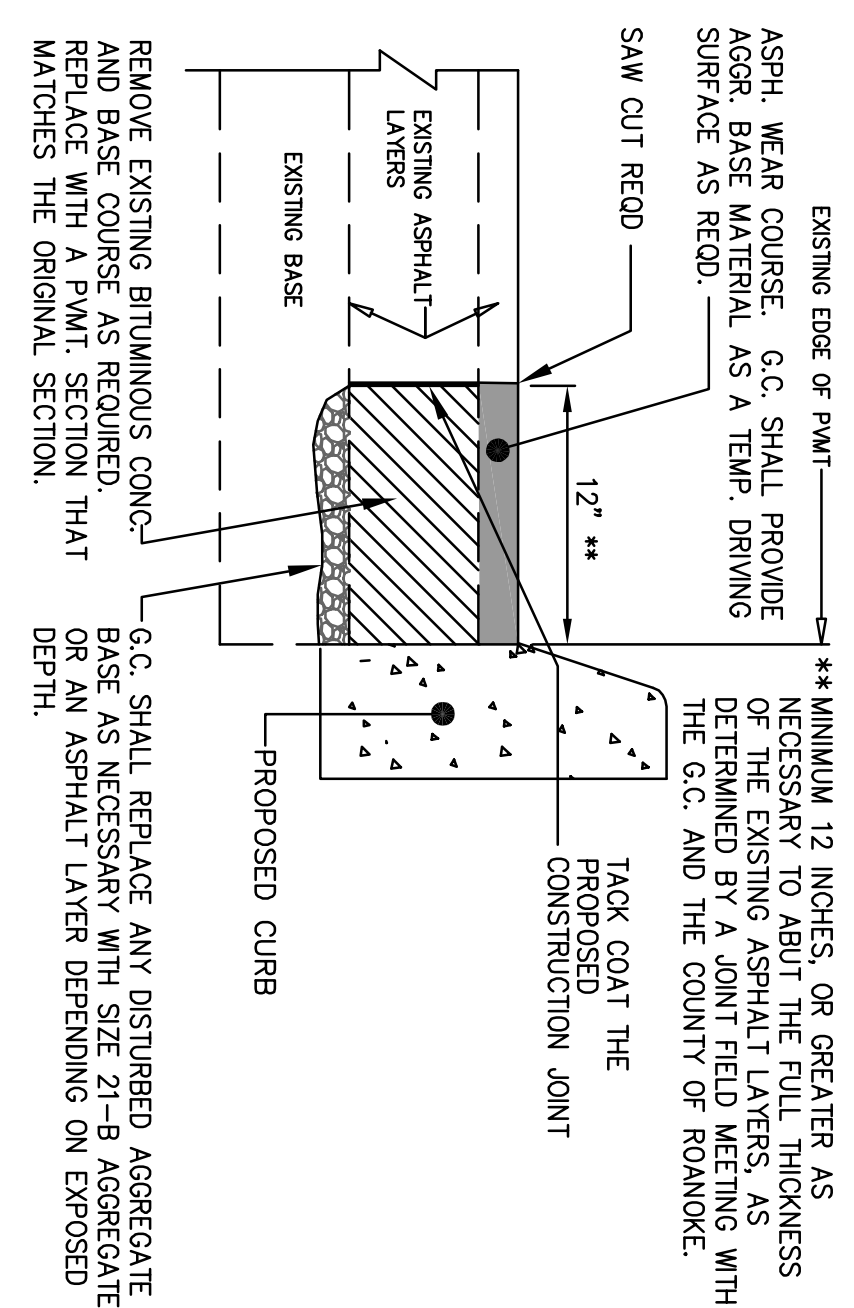
COMMONWEALTH OF VIRGINIA FRANK B. CAIDWELL III LIC. NO. 9184 2 Aug 17 PROFESSIONAL SEAL		DEMOLITION PLAN LILA DRIVE ROAD IMPROVEMENT PLAN COUNTY OF ROANOKE SITUATE OFF PLANTATION ROAD ROANOKE COUNTY, VIRGINIA	
Designed: J.V.L. Drawn: J.V.L. Checked: F.B.C. Revised: 12/09/15 Scale: 1"=10' For Parcel: 27.06-5-13 N.B. No.: RkCo 8 W.O. No.: 15-0060		CAIDWELL WHITE ASSOCIATES ENGINEERS / SURVEYORS / PLANNERS 4809 MEDFORD AVENUE, N.W. ROANOKE, VIRGINIA 24017 EMAIL: CWA@CAIDWELLWHITE.COM	



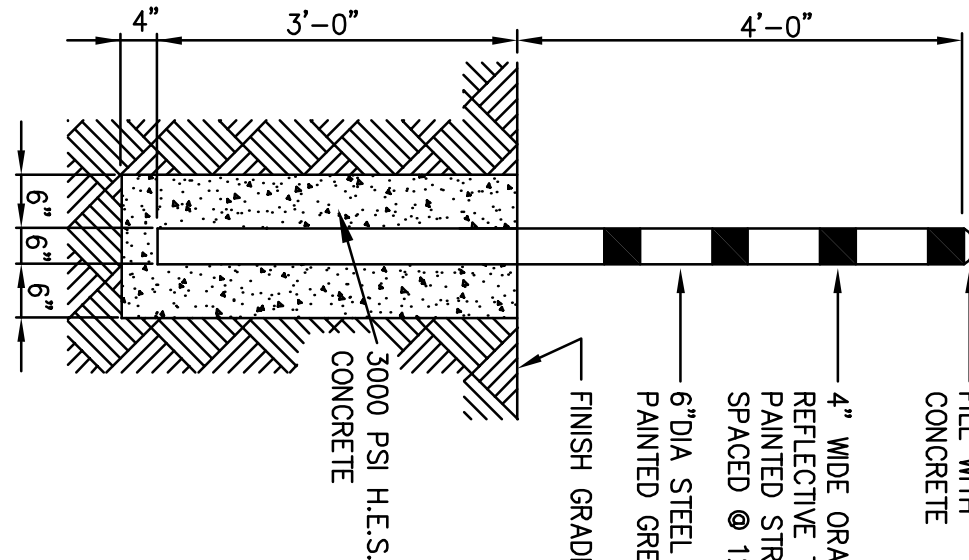
A BASE AGGREGATE
C3 NO SCALE

B CONCRETE CURB
C3 NO SCALE

C CURB TAPER
C3 NO SCALE



D PAVEMENT RESTORATION
C3 NO SCALE



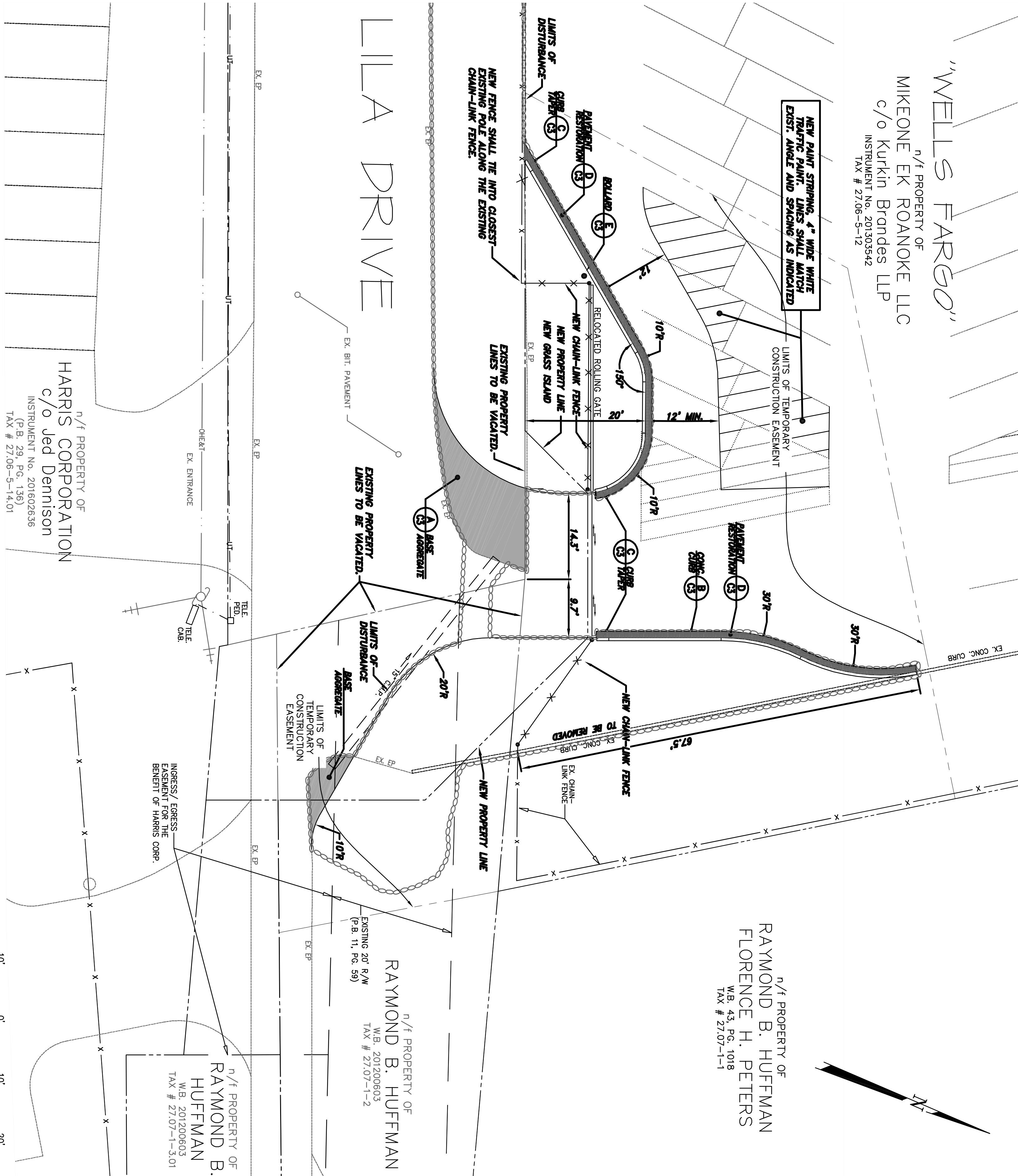
E BOLLARD
C3 NO SCALE

GENERAL NOTES

THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK AND ANY CLOSURES OF LILA DRIVE WITH THE ADJOINING PROPERTY OWNERS:
TAX #27-06-5-12, "WELLS FARGO" c/o JONES LANG LASALLE, MS. JESSICA CALL, 540-563-6070, TAX #27-06-5-14-01, "HARRIS CORPORATION" c/o MR. GENE TUCKER, 540-561-0484, AND TAX #27-06-5-14-02, "HARRIS CORPORATION" c/o MR. GENE TUCKER, 540-561-0484.
1. IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR COORDINATE CLOSELY WITH THESE ADJOINING PROPERTY OWNERS, AND THAT THEY ARE AWARE OF ALL CONSTRUCTION SCHEDULING.
2. CERTAIN HOURS OF THE DAY WILL BE MORE CONDUCTIVE FOR CERTAIN CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL INSURE THAT VEHICULAR ACCESS IS AVAILABLE AT ALL TIMES TO THE HUFFMAN PROPERTY.
AN APPROVED SET OF PLANS AND ALL PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT THE JOB SITE.
NO CONSTRUCTION OR FIELD CHANGES SHALL BE PERFORMED WITHOUT PRIOR APPROVAL OF THE CONSULTING ENGINEER AND THE COUNTY OF ROANOKE DEPARTMENT, DEPARTMENT OF COMMUNITY DEVELOPMENT.
THE SITE WORK AND LANDSCAPING CONTRACTOR(S) SHALL COMPLY WITH LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES, BOTH ON AND OFF THE SITE. REFER TO THE VIRGINIA UNIFORM CODING SYSTEM CONTAINED IN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, FOR DETAILS AND SPECIFICATIONS OF EROSION CONTROL ITEMS SHOWN ON THESE PLANS.
ALL PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. THE PAVEMENT DESIGN SHALL BE AS SHOWN HEREON.

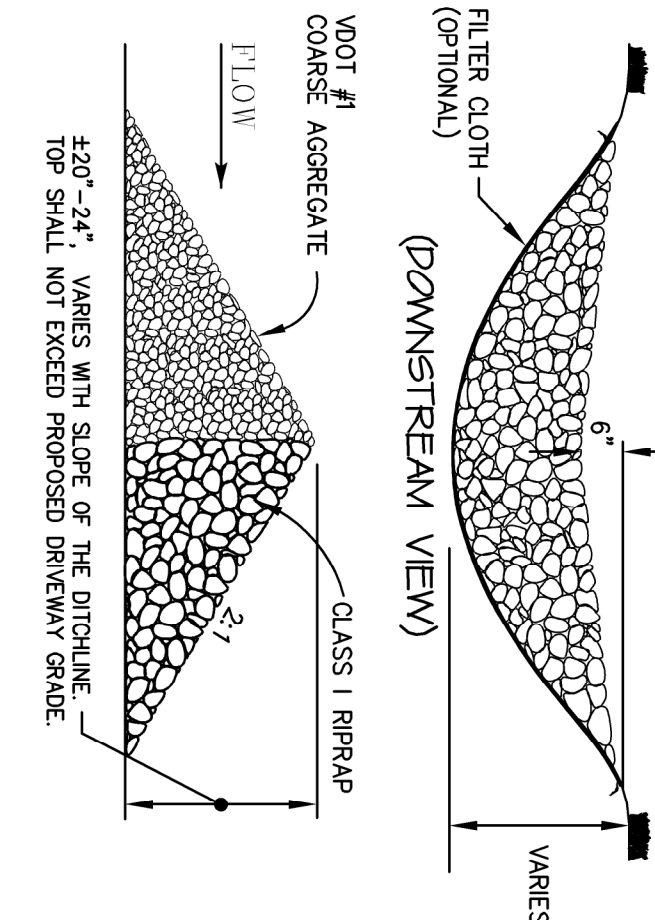
ALL NEW CHAIN-LINK FENCING SHALL MATCH THE EXISTING PERIMETER FENCING FOR TAX PARCEL #27-06-5-12, INCLUDING BRACES, POLE DIAMETERS, BARB-WIRE SECURITY, ETC.



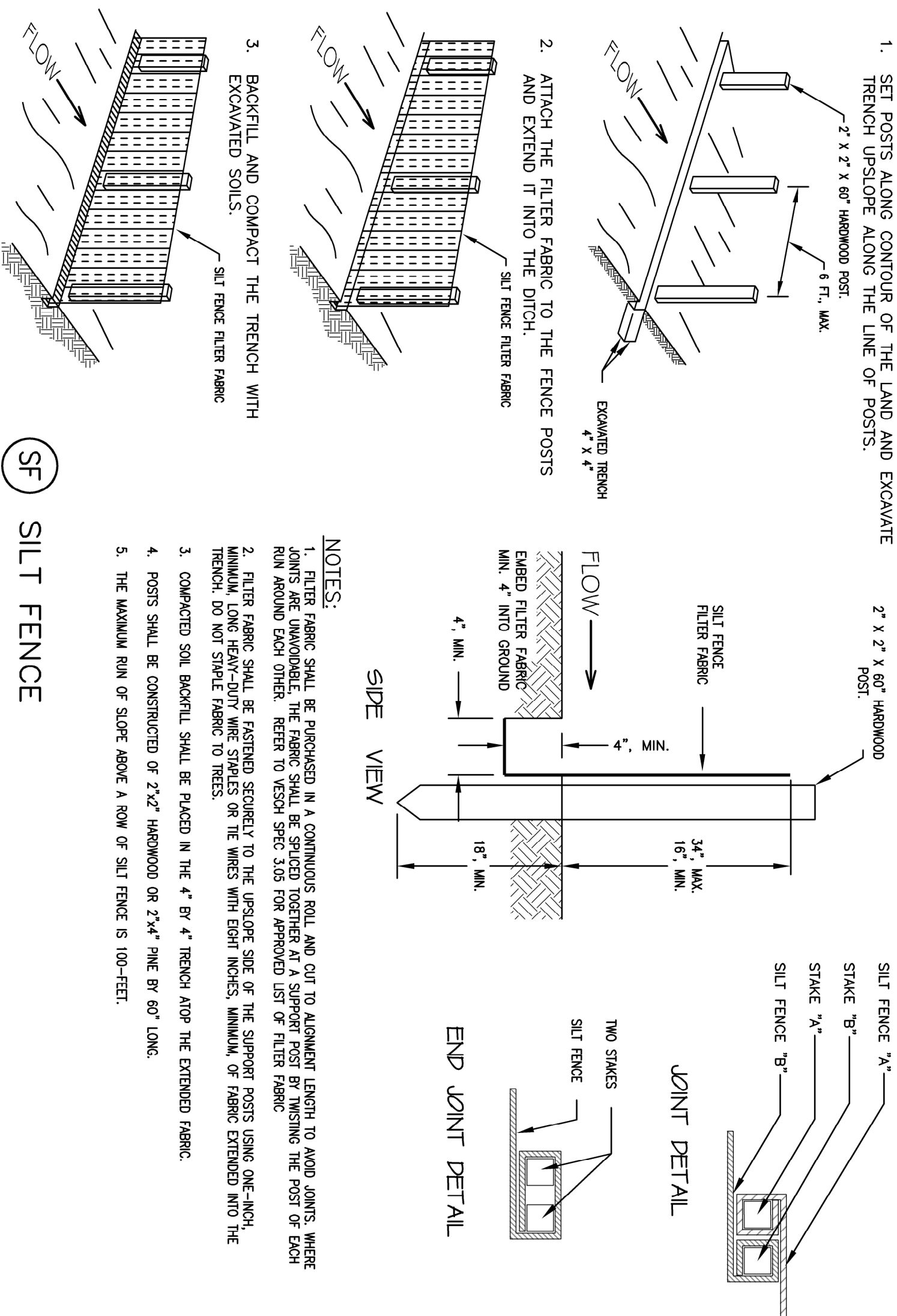
ENGINEER'S NOTES

ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT THE SOLE RISK OF THE OWNER.
CAIDWELL WHITE ASSOCIATES DOES NOT GUARANTEE THE COMPLETION OR QUALITY OF PERFORMANCE OF THE CONTRACTS BY CONTRACTORS OR OTHER THIRD PARTIES.
SOURCE OF TOPOGRAPHIC MAPPING IS A FIELD SURVEY BY CAIDWELL WHITE ASSOCIATES DATED: AUGUST, 2015.
BOUNDARY DATA SHOWN IS FROM FIELD SURVEY BY CAIDWELL WHITE ASSOCIATES DATED: AUGUST, 2015
THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY SITE CONDITIONS THAT WILL AFFECT THE INSTALLATION OF PROPOSED IMPROVEMENTS.

<p>DESIGNED: _____ L.V.L. CHECKED: _____ F.B.C. REVISED: _____ 12/09/15 Scale: _____ 1"=10' For Parcel: _____ 27-06-5-13 NB. No.: _____ RkCo 8 W.O. No.: _____ 15-0060</p>		<p>COMMONWEALTH OF VIRGINIA Jed B. Caldwell L.C. NO. 9184 2 ALE 17 PROFESSIONAL SEAL</p>	
<p>CAIDWELL WHITE ASSOCIATES ENGINEERS / SURVEYORS / PLANNERS 4803 MEDOBER AVENUE, N.W. ROANOKE, VIRGINIA 24017 EMAIL: CWA@CAIDWELLWHITE.COM</p>		<p>LILA DRIVE ROAD IMPROVEMENT PLAN COUNTY OF ROANOKE SITATE OFF PLANTATION ROAD ROANOKE COUNTY, VIRGINIA</p>	



CD ROCK CHECK DAMS

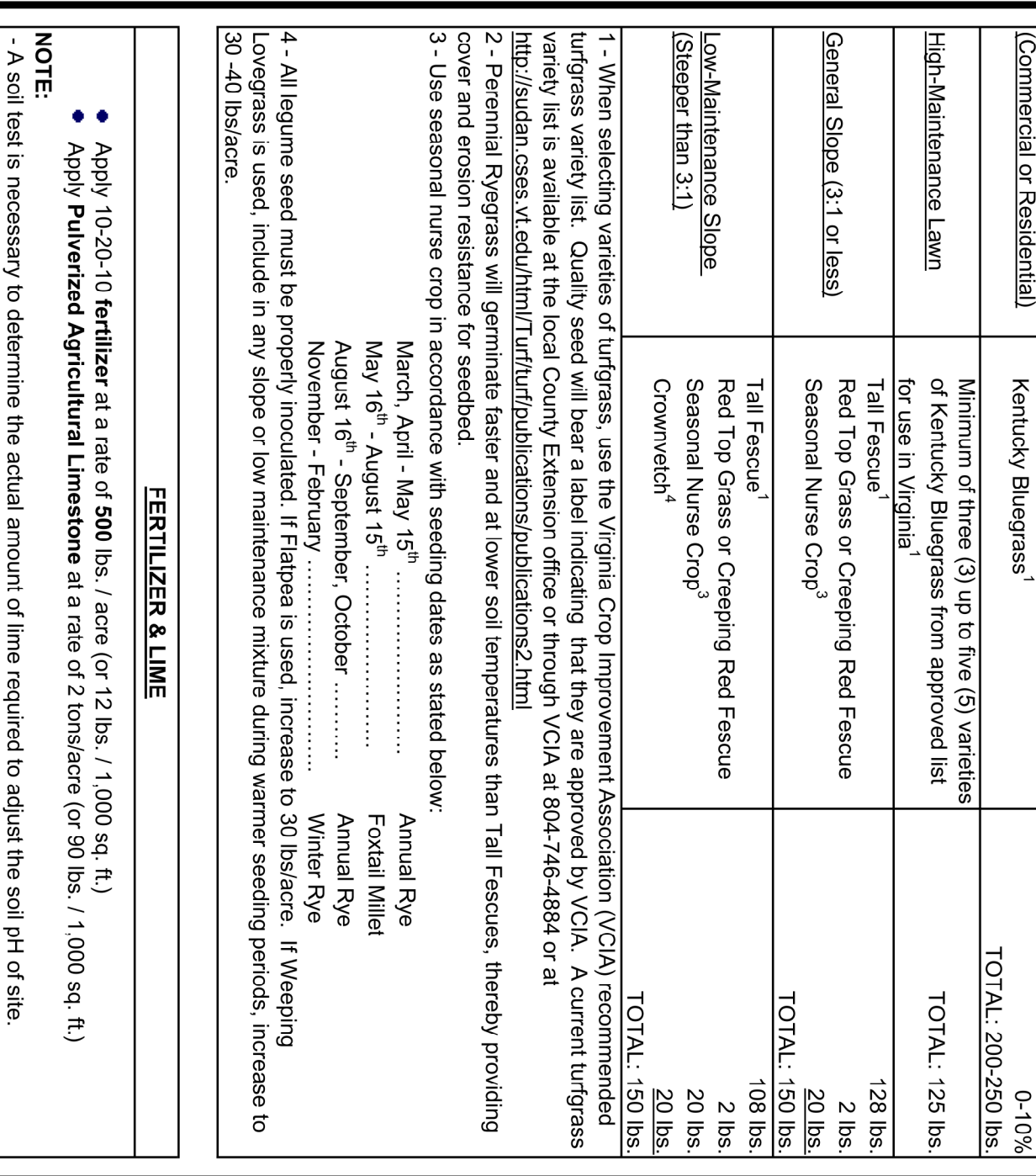


② SF SILT FENCE

DC DUST CONTROL

TABLE 3.32-C
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN MOUNTAIN AREA

SEED ¹		
LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn	Tall Fescue ¹ Perennial Ryegrass ²	90-100% 0-10%



PS PERMANENT SEEDLING

- 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.vt.us/sws/eds.htm#puls>

TABLE 3.31-B TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
(Regional Variations)		
<u>SEED</u>		
<u>APPLICATION DATES</u>	<u>SPECIES</u>	<u>APPLICATION RATES</u>
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (tollum multi- florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (tollum multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lb/acre)

FERTILIZER & LIME

- Apply 10-10-10 **fertilizer** at a rate of 450 lbs. (or 10 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestones** at a rate of 2 tons/acre (or 50 lbs. / 1,000 sq. ft.)

NOTES:

- 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 diskling or by other means.
- 3 - When applying Slowly Available Nitrogen, use the rates included in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.vt.us/sws/waqs_hmfrb03us

Designed:.....	J.V.A.
Drawn:.....	J.V.A.
Checked:.....	J.R.C.
Revised:.....	12/09/75
Scale:.....	1" = 10'
For Project:.....	Z/106-103
N.B. No.:.....	RMC6 8
Job No.:.....	15-0089

COMMONWEALTH OF VIRGINIA
 FRANK B. CALDWELL, III
 LIC. NO. 9184
 2 Ails 17
 PROFESSIONAL ENGINEER

EROSION & SEDIMENT CONTROL DETAILS


LILA DRIVE

ROAD IMPROVEMENT PLAN

COUNTY OF ROANOKE

SITE

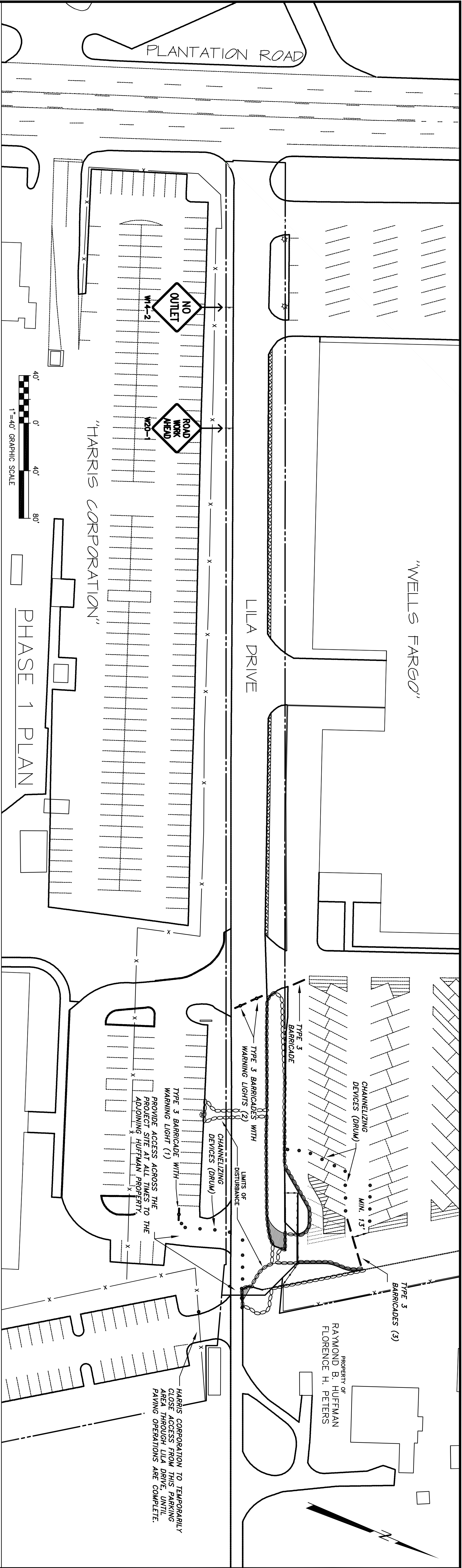
OFF PLANTATION ROAD
 ROANOKE COUNTY, VIRGINIA



CALDWELL WHITE ASSOCIATES

ENGINEERS / SURVEYORS / PLANNERS

4408 MERIDIAN AVENUE, N.W.
 P.O. BOX 4280
 ROANOKE (VA) 24061-4280
 EMAIL: CWA@CWAENGINEERS.COM



GENERAL NOTES

AGRONOMY, LANDSCAPE ARCHITECTURE, AND TRAFFIC CONTROL DEVICES, 2009 EDITION
VDMOT – VIRGINIA DEPARTMENT OF TRANSPORTATION
WAMP – VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION

THE GENERAL CONTRACTOR (G.C.) FOR THIS PROJECT SHALL BE COMMITTED TO PROVIDING SAFE AND EFFICIENT MOVEMENT OF MOTORIZED AND NON-MOTORIZED TRAFFIC THROUGH AND AROUND ROADWAY WORK ZONES, AS WELL AS PROVIDING PROTECTION FOR WORKERS AND EQUIPMENT LOCATED WITHIN WORK ZONES.

THE G.C. SHALL FOCUS ON ROADWAY VISIBILITY AND FUNCTIONALITY OF TEMPORARY TRAFFIC CONTROL IN WORK ZONES AND PROTECT FROM PROGRESSIVE COLLISIONS. ROADWORKERS SHALL BE MAINTAINED WITHIN THE PROTECTED WORK ZONE. ALL SAFETY DEVICES AND EQUIPMENT SHALL BE MAINTAINED AND EQUIPMENT NOR ANY OTHER OBSTACLE CAN BE ALLOWED TO INTERFERE WITH SIGHT DISTANCES AT ENTRANCES OR INTERSECTIONS ON THE PROJECT.

G.C. SHALL COMPLETE THE WORK IN A TIMELY MANNER TO MAINTAIN ACCESS FOR THE ADJOINING BUSINESSES.

G.C. SHALL EXPECT FREQUENT ON-SITE REVIEWS BY THE COUNTY OF ROANOKE AND VDOT TO INSPECT THE WORK ZONES PERFORMANCE AND TO IMPLEMENT ANY CHANGES TO THE TEMPORARY TRAFFIC PLAN TO ENHANCE THE WORK ZONE'S SAFETY AND MOBILITY.

THIS PROJECT CAN BE DIVIDED INTO TWO (2) DISTINCT AREAS OF IMPROVEMENT AND THE TEMPORARY TRAFFIC PLAN SHALL BE DIVIDED INTO THESE TWO (2) AREAS SHOULD THE CONTRACTOR NEED TO OVERLAP ANY OF THE CONSTRUCTION AREA, A MODIFIED TEMPORARY TRAFFIC PLAN SHALL BE PROVIDED TO THE COUNTY OF ROANOKE.

THE POSTED SPEED LIMIT ON LILA DRIVE IS 25 MPH. ALL TAPER LENGTHS, BUFFER LENGTHS, AND CHANNELIZING DEVICES SHALL BE BASED ON THIS SPEED.

ALL SIGNS, AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH VIRGINIA'S WAMP AND MUTCD STANDARDS.

IT IS NOT THE INTENT OF THIS PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH WORK ZONE, BUT ONLY TO SHOW THE GENERAL FEATURES NECESSARY TO PROVIDE FOR PROPER HANDLING OF TRAFFIC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR SAFE TRAVEL AROUND THE WORK ZONES.

THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF CONSTRUCTION WITH THE COUNTY OF ROANOKE. WRITTEN NOTIFICATION SHALL BE PROVIDED WITH A WORK SCHEDULE, TWO (2) WEEKS PRIOR TO BEGINNING ROAD WORK.

SIGN SPACING MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL TRAFFIC CONTROL DEVICES INDICATED SHALL BE REVIEWED DAILY TO ENSURE THEIR FUNCTIONALITY.

THE USE OF FLAGGERS SHALL BE PERMITTED IF NEEDED. ALL FLAGGERS SHALL BE STATE CERTIFIED AND HAVE THEIR CERTIFICATION IN THEIR POSSESSION WHEN PERFORMING FLAGGING DUTIES.

CHANNELIZING DEVICES, SUCH AS CONES OR BARRELS, AND/OR WORK VEHICLES SHALL BE UTILIZED WHERE REQUIRED IN ACCORDANCE WITH THE WAMP.

TRAVEL LANES SHALL MAINTAIN A MINIMUM WIDTH OF TEN (10) FEET AT ALL TIMES, UNLESS OTHERWISE NOTED.

WHEN WORK IS NOT ACTIVE, NO EQUIPMENT OR STORED MATERIALS SHALL BE LEFT WITHIN THE PUBLIC ROADWAYS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK WITH LOCAL PROPERTY OWNERS TO ACQUIRE TEMPORARY RIGHTS TO UTILIZE ANY ADJOINING PROPERTIES FOR STORING, PARKING, ETC.

IF CONSTRUCTION OCCURS AFTER DARK, FLOODLIGHTS SHALL BE UTILIZED TO PROVIDE ADEQUATE LIGHTING. FLOODLIGHTS SHALL NOT CREATE A DISTRACTING GLARE TO DRIVERS.

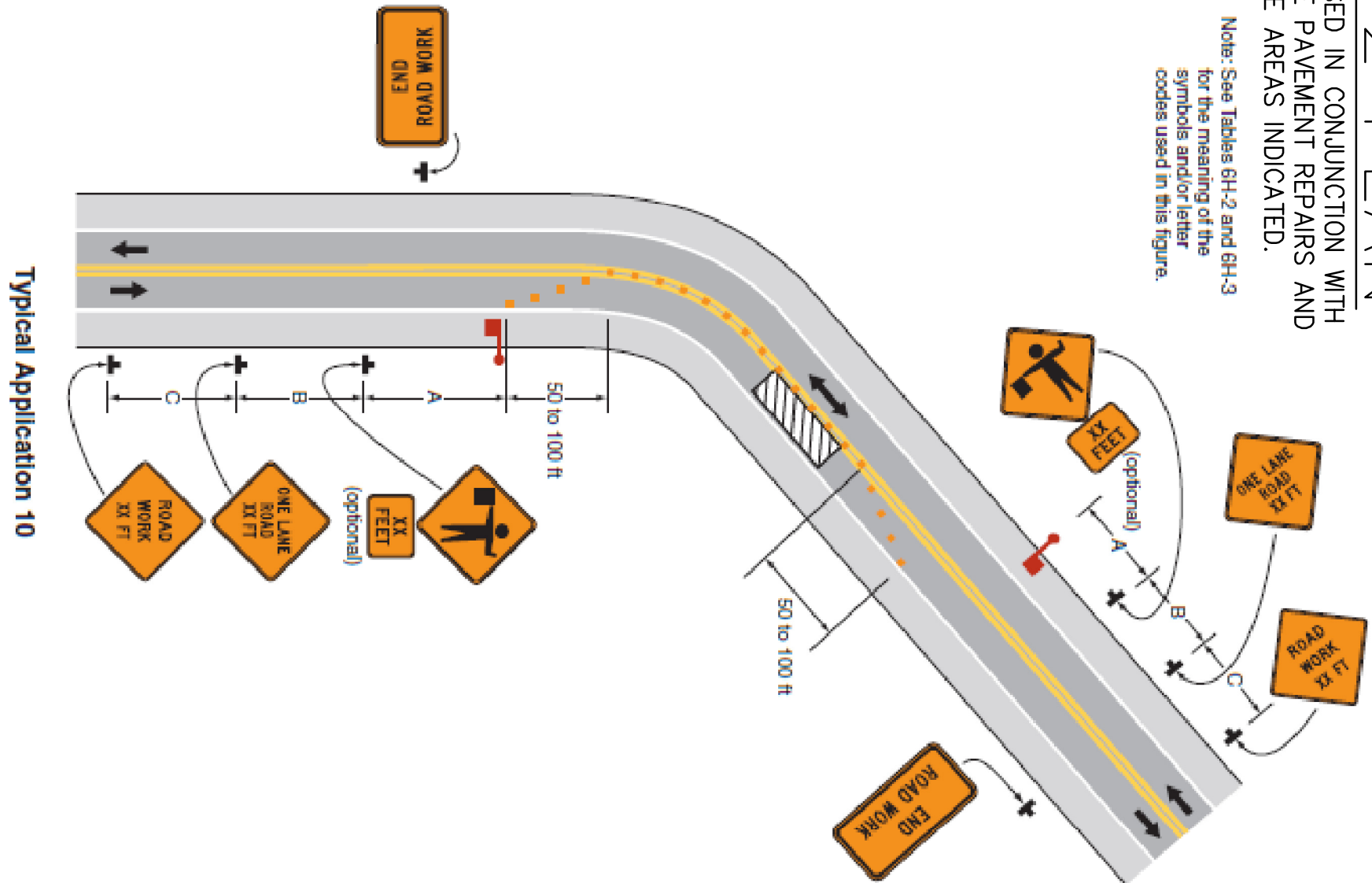
DIAGRAM FROM MUTCD

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

PHASE 2 PLAN

THIS PLAN TO BE USED IN CONJUNCTION WITH SHEET C-8 FOR THE PAVEMENT REPAIRS AND OVERLAYS WITHIN THE AREAS INDICATED.

Note: See Tables 6H-2 and 6H-3 for the meaning of the codes used in this figure.



REVISED AUGUST 2, 2017 (PER ROANOKE COUNTY COMMENTS)

COMMONWEALTH OF VIRGINIA
FRANK B. CALDWELL III
LIC. NO. 9184
2 AVE 17
PROFESSIONAL ENGINEER

TEMPORARY TRAFFIC CONTROL PLAN

LILA DRIVE

ROAD IMPROVEMENT PLAN

COUNTY OF ROANOKE

SITATE

OFF PLANTATION ROAD

ROANOKE COUNTY, VIRGINIA

CWA

CAIDWELL WHITE ASSOCIATES

ENGINEERS / SURVEYORS / PLANNERS

4808 MEDFORD AVENUE, N.W.
ROANOKE, VIRGINIA 24017
EMAIL: CWA@CAIDWELLWHITE.COM

Designed: KYL

Drawn: KYL

Checked: F.B.C.

Date: 12/09/15

Scales: 1"=40'

Tot. Parcel: 21.06-5-13

N.B. No.: RKG0.8

W.O. No.: 15-0060

