

Southern Albemarle Convenience Center

Virtual Public Meeting -- September 30, 2021



Project Team

Phillip McKalips

Director of Solid Waste
Rivanna Solid Waste Authority

Scott A. Schiller, P.E.

Engineering Manager
Rivanna Water & Sewer Authority

E. Campbell Bolton, PE

Project Manager
Draper Aden Associates

Lance Stewart

Director of Facilities and Environment Services
County of Albemarle

Background

- February 17, 2021: Albemarle Board of Supervisors (BOS) directed staff to pursue the development of a solid waste convenience center, located on a County-owned parcel in Keene
- March 17, 2021: BOS appropriated \$1.1 million to fund the design and construction of the facility, including all containers and compactors necessary to open the operation
- Design initiated by RSWA and Draper Aden
- Comprehensive Plan Compliance Review in October

A Convenience Center is a Place To Take...

- Bagged Household Waste
- Compostable Food Waste
- Recyclables, including:
 - Glass
 - Plastics
 - Paper and Cardboard
 - Tin and Other Metals
- Special Waste Streams (hazardous waste, e-waste) may be offered in the future
- Fully staffed during operating hours



Tag-A-Bag Household Trash

- Compacted and removed daily
- “Cost Convenient”
 - Dropped at Convenience Center: \$2.00 per 32-gallon bag
 - Average local hauler \$29/month for curbside
- Tags will be available from local merchants or for purchase by mail

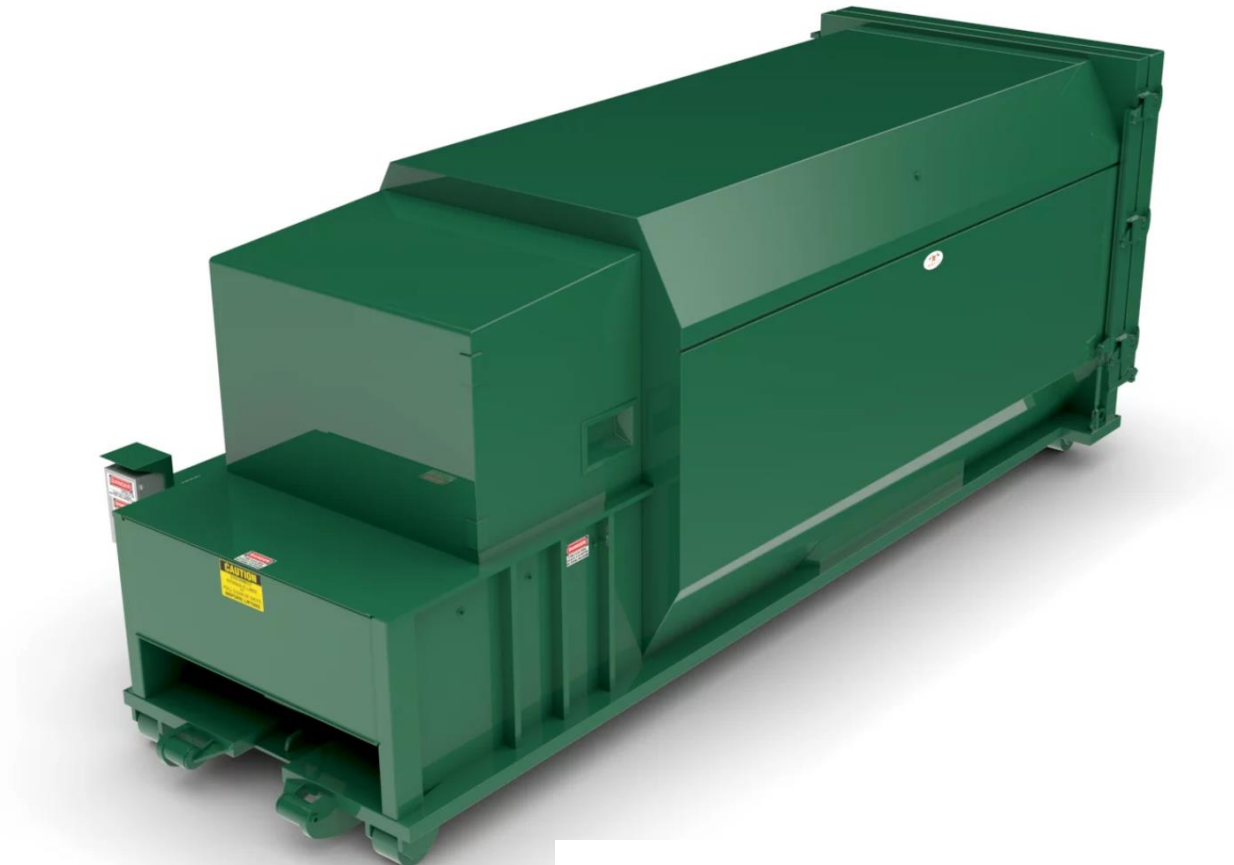


Sam is 5'8"

32 Gallon

MSW Self-Contained Compactor

- Door on feed shoot generally limits waste to trash bag sizes.
- Won't accept commercial, construction waste

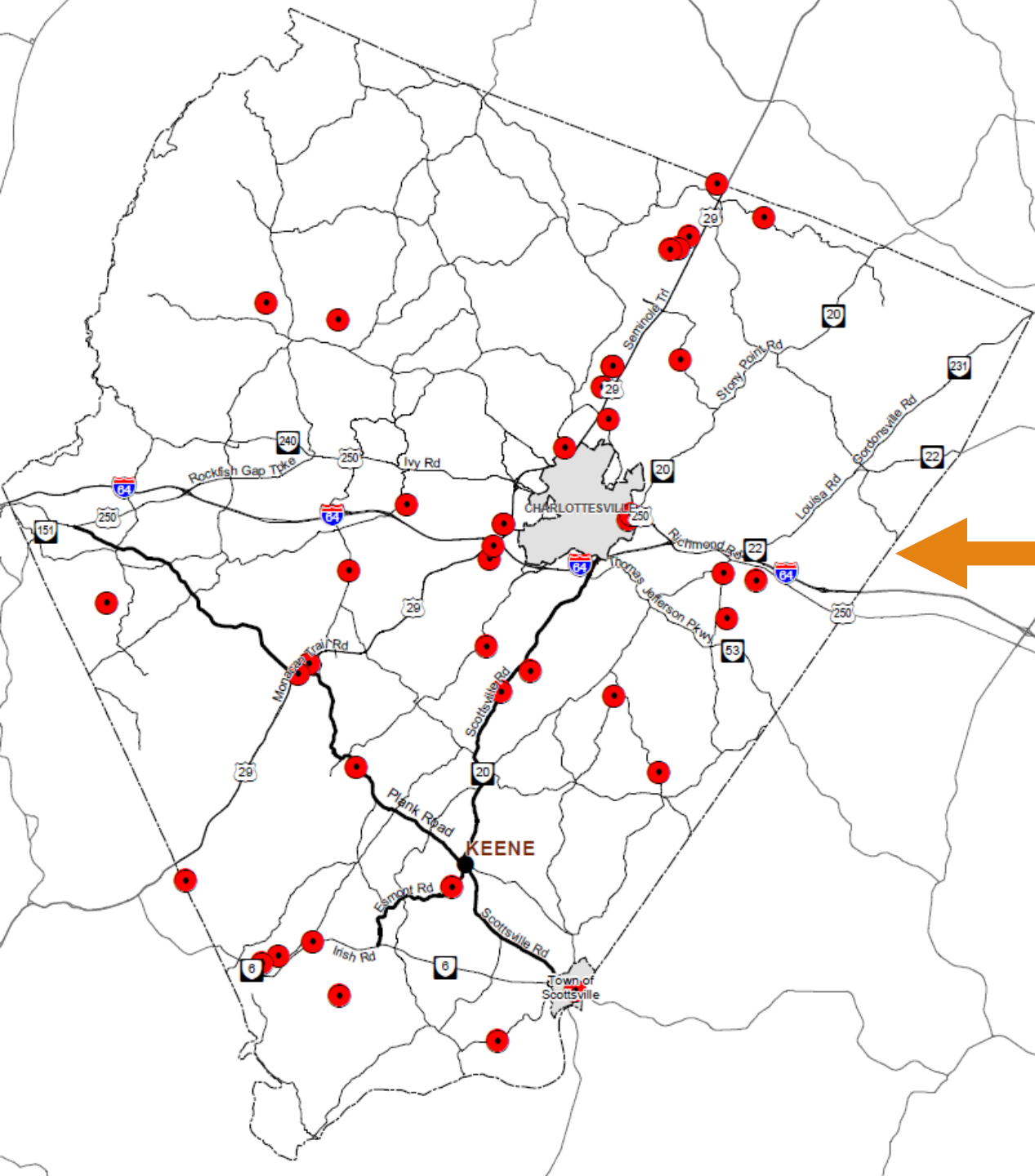


Hours of Operation

- Service Days: Monday, Tuesday, Wednesday, Friday, Saturday, and Sunday
- Operations closed on Thursday to facilitate emptying site containers, site cleaning and maintenance
- Service Hours: seasonally set (such as winter hours of 8:30 AM to 5:30 PM; 8:30 AM to 6:30 PM during summer months)

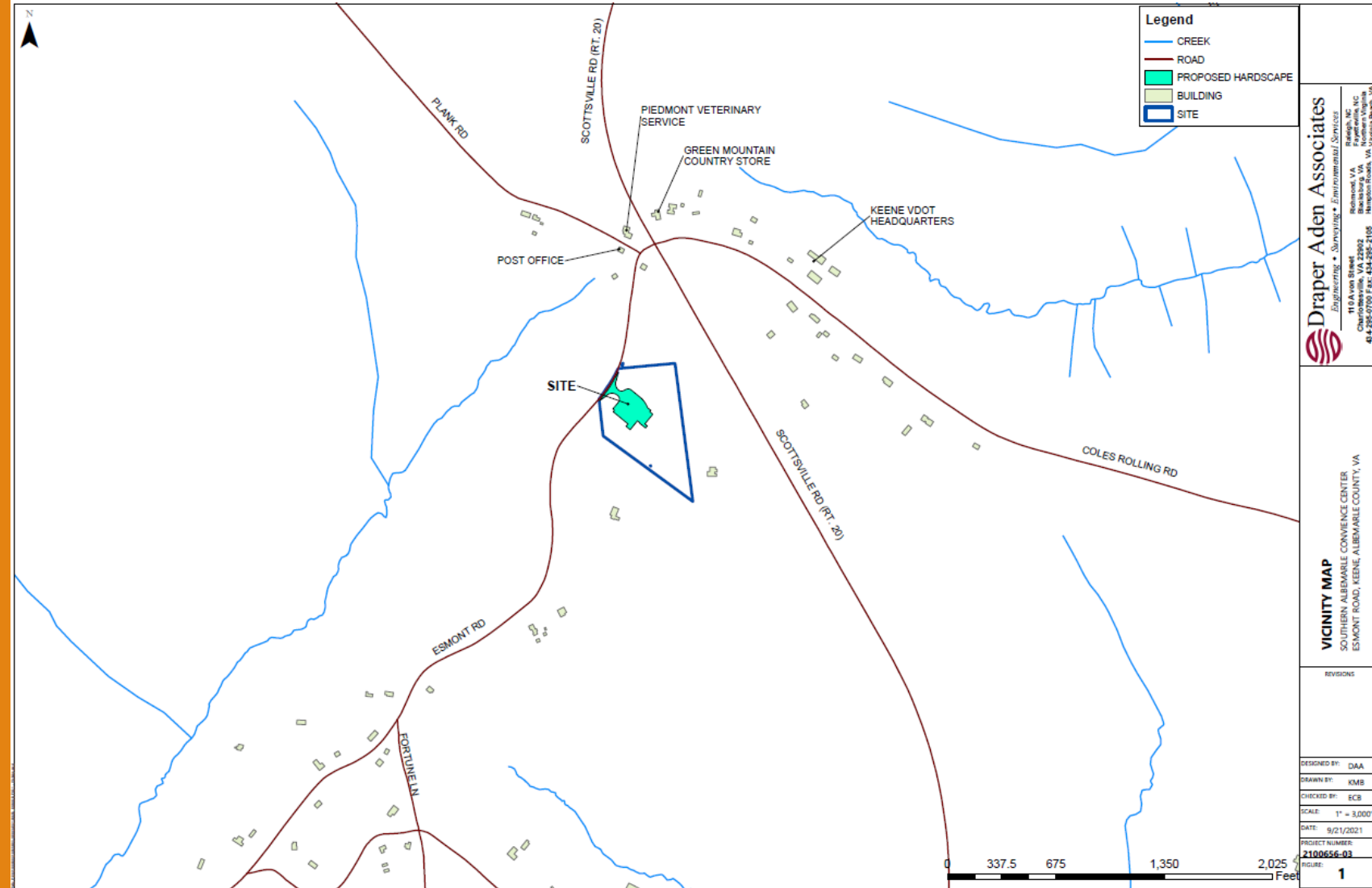
Community Benefits

- Convenience centers proven to reduce illegal dumping
 - 3 years of data – complaints to Police
- Curbs open burning

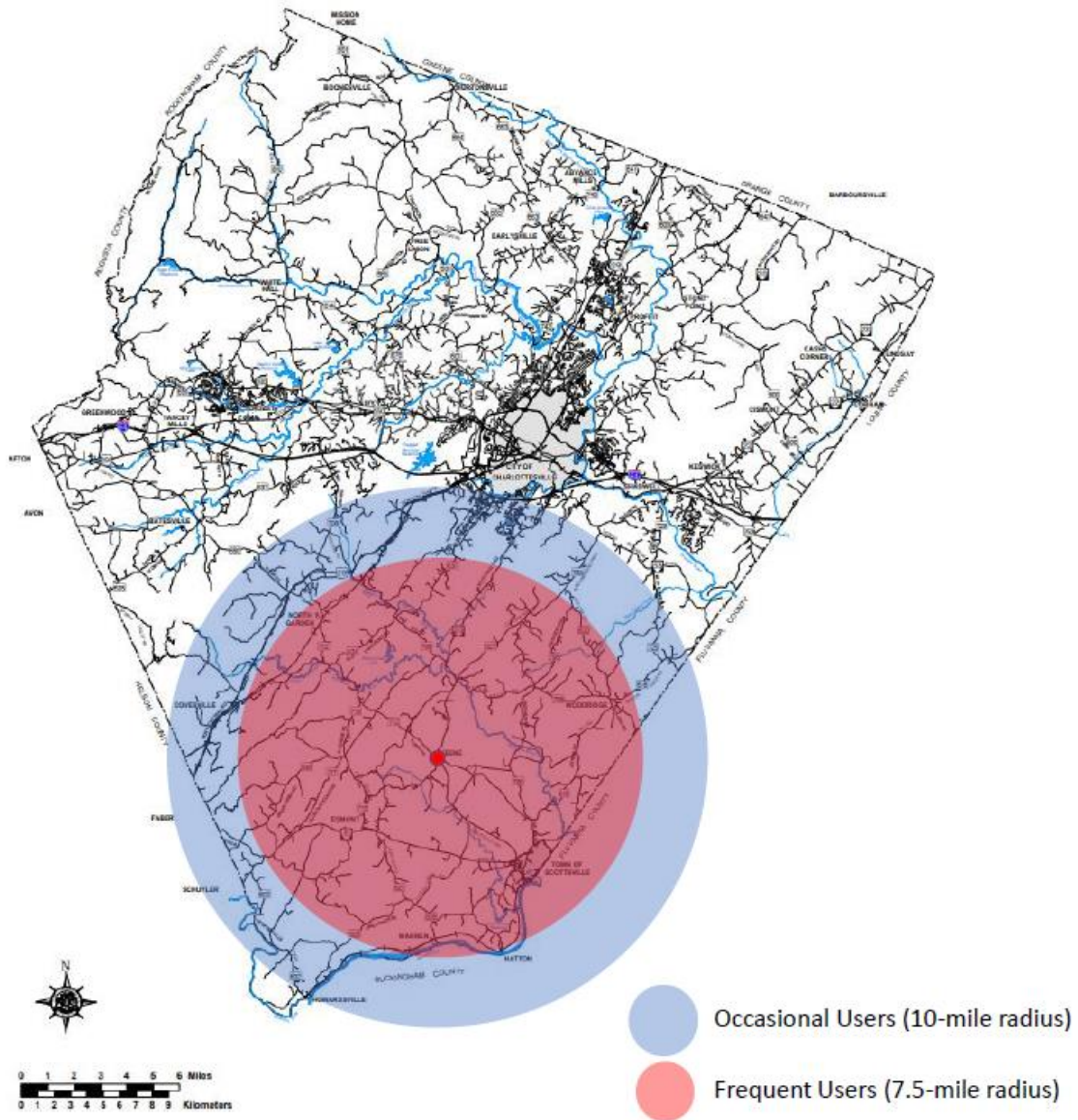


Where Will It Be Located?

- 6 Miles North of Scottsville (near post office)
- Undeveloped parcel (owned since 1990)
- Near intersection of US 20, Plank Road, Esmont Road and Coles Rolling Road



Draper Aden Associates
Engineering • Surveying • Environmental Services
115A Wood Street
Charlottesville, VA 22902
404-295-0700 Fax: 404-295-2195
Roanoke, VA
Blacksburg, VA
Northern Virginia
Hempden Harbor, VA
Virginia Beach, VA



Service Area

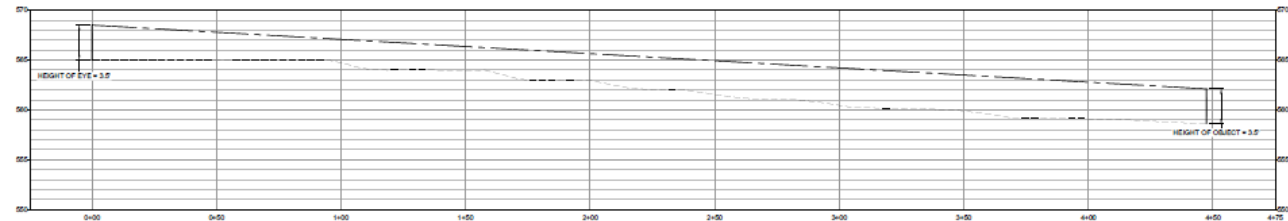
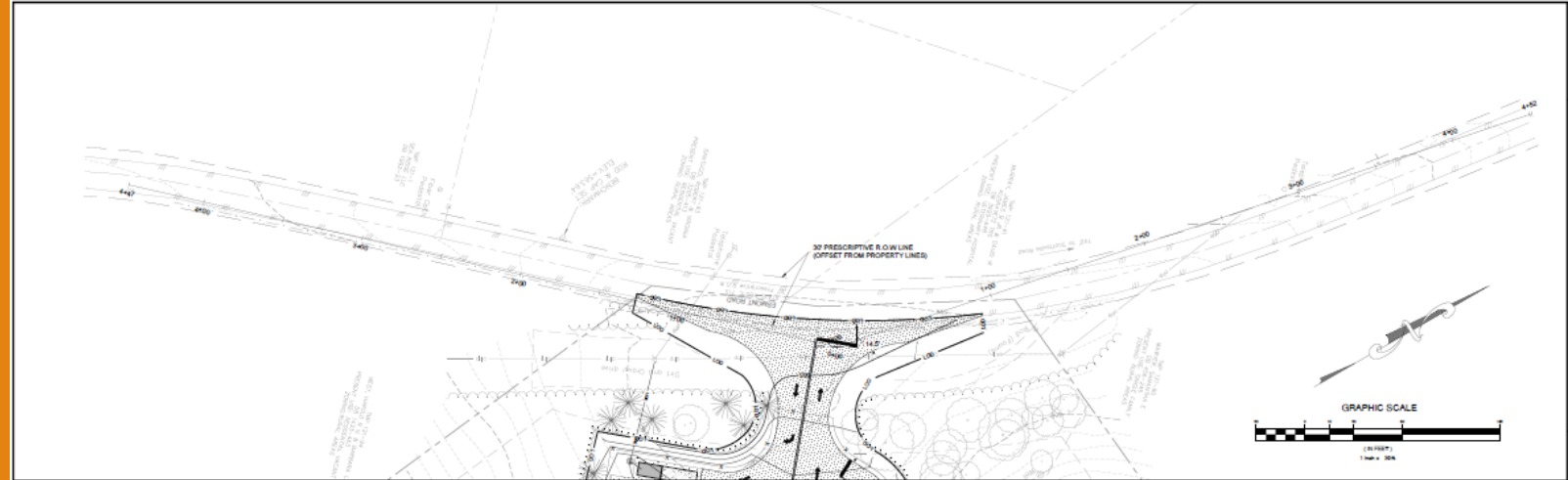
What Will It Look Like?

Conceptual design





Traffic Plan

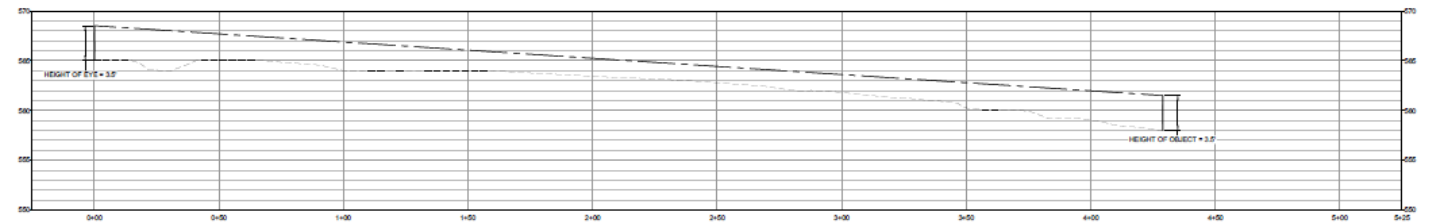


SDL - Scale: H: 1"=20', V: 4.00:1

TRAFFIC DATA

- VDOT ASST FOR EDMONT ROAD: 1,400 TRIPSDAY
- ASSUMING THE TRIPS ARE EQUALLY DIVIDED FOR EACH DIRECTION AND SUBSTANTIALLY TAKE PLACE OVER EIGHT HOURS, THIS WOULD EQUATE TO ~87 TRIP/HOUR IN EACH DIRECTION.
- ANTICIPATED MAXIMUM DAILY TRIPS TO FACILITY: 135 TRIPSDAY FOR WEDNESDAYS AND 200 TRIPSDAY ON SATURDAY (BASED ON TRAFFIC COUNTS AT SIMILAR COUNTY FACILITIES)
- ASSUMING ANTICIPATED ALL TRIPS FROM ROUTE 30 (SOUTH) AND EQUAL TRIPS OVER EIGHT HOURS OF OPERATION, THIS WOULD EQUATE TO ~87 VEHICLES TURNING LEFT PER HOUR.
- THE TOTAL VOLUME OF TRAFFIC ALONG EDMONT ROAD WOULD BE ~100 WITH THIS FACILITY (50-50) VEHICLES MAKING LEFT TURNS WOULD BE APPROXIMATELY 25% OF THE VOLUME (20/20).
- USING FIGURE 54.0 OF APPENDIX F OF THE ROAD DESIGN MANUAL, NO LEFT TURN LANE IS WARRANTED.

VDOT REQUIREMENTS FOR 40 MPH
100' + 4' HGT. REQ. SCL = 4:00 REQ.



SDL - Scale: H: 1"=20', V: 4.00:1

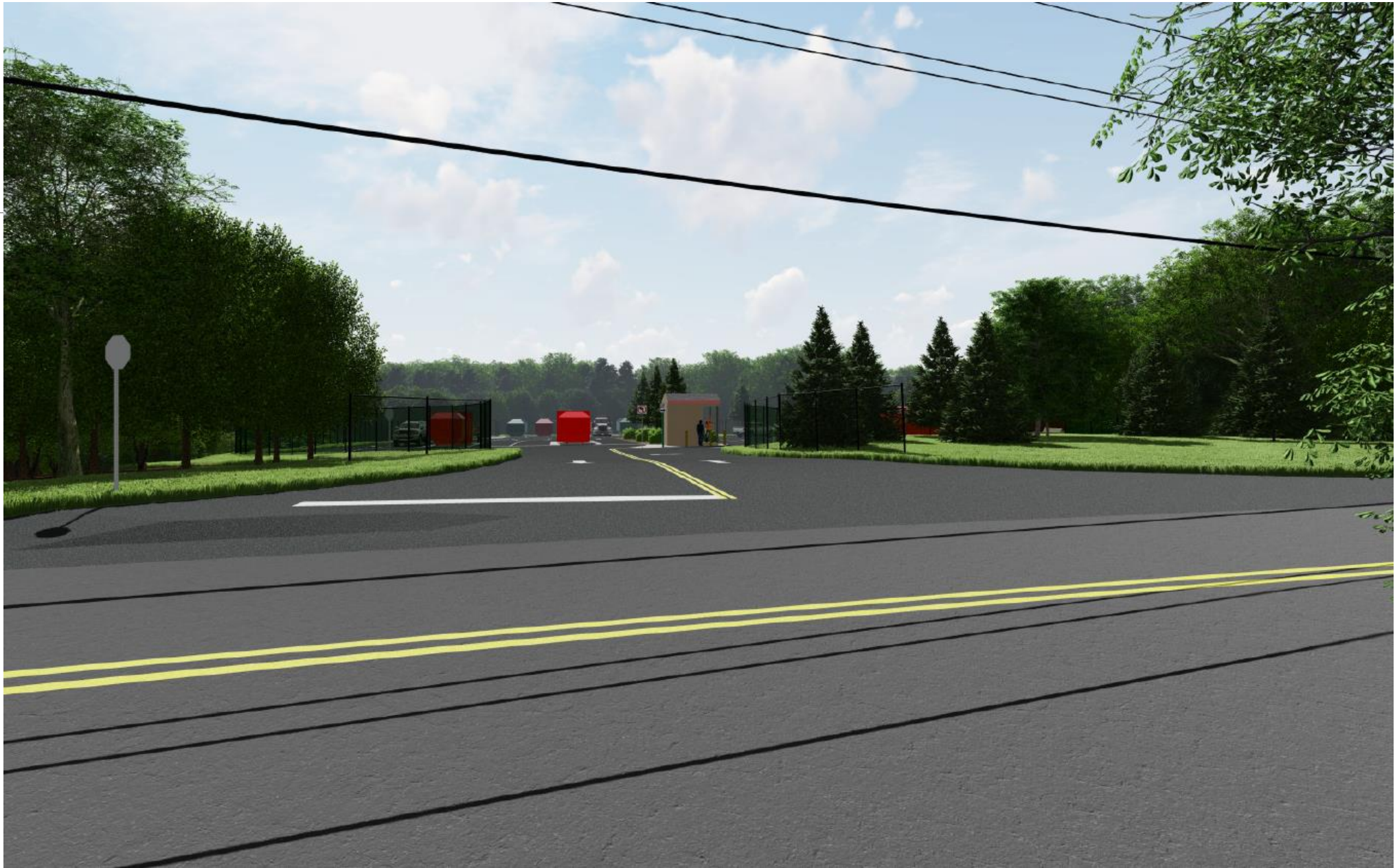
INITIAL SITE PLAN SUBMITTAL

Draper Aden Associates
Engineering • Surveying • Environmental Services
11814 Lee Street • Charlottesville, VA
434-282-5200 • Fax: 434-282-2100 • www.draperaden.com

ENTRANCE SIGHT DISTANCE
SOUTHERN ALBEMARLE CONVENIENCE CENTER
EDMONT ROAD, KEENE, ALBEMARLE COUNTY, VA

| | |
|-----------------|---------------|
| DESIGNED BY: | CAA |
| DRAWN BY: | EMD |
| CHECKED BY: | ECB |
| SCALE: | 1" = 20' |
| DATE: | JUNE 10, 2011 |
| PROJECT NUMBER: | Z100656 03 |

C2.2





Southern Albemarle Convenience Center

Questions?