2043 **Dickson County** Comprehensive **Plan**









September 2023



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INTRODUCTION

The 2043 Dickson County Comprehensive Plan (Plan) is a county-wide comprehensive planning document that outlines goals, policies, and implementation strategies developed through a public engagement process. The purpose of the plan is to enable government officials and citizens to anticipate and constructively respond to growth and change; to encourage the development of a vibrant build environment and a healthy natural environment; and to provide equitable opportunities for all citizens to enjoy a high quality of life.

CRITICAL GOALS OF THE COMPREHENSIVE PLAN

- The County and municipalities co-operate to create a community-wide vision for the future.
- Create a resource to inform policy decisions.
- Set priorities for staff and leadership to initiate tasks and aid decision making.
- Outline specific goals and strategies to achieve one vision.

"By failing to prepare, you are preparing to fail" — Benjamin Franklin

WHY IS IT NEEDED?

A Comprehensive Plan is required by state law in all jurisdictions that have zoning. In Tennessee this is dictated by the Tennessee Advisory Commission on Intergovernmental Relations (TACIR). The TACIR was created in 1978 in response to the need for a permanent intergovernmental body to study and take action on questions of organizational patterns, powers, functions, and relationships among federal, state, and local governments.



The plan sets out a vision for the future, establishes goals, and recommends actions to achieve those goals. It also serves as a guide to new development and for a way to preserve land for specific use.







Population:

Consideration for historic trends, projections, household number and sizes, education levels, and income.



Economic Development:

Consideration for labor force characteristics, employment, and analysis of the economic base.



Natural Resources:

Consideration for the natural environment (agricultural and forest land, plants and animal habitat, parks and recreation areas, scenic views, and soils).



Cultural Resources:

Consideration for historic buildings, structures, districts, and natural/scenic sites.



Community Facilities:

Consideration for utilities, solid waste collection and disposal, fire protection, police protection, emergency medical services, government facilities, educational facilities, and cultural facilities.



Land Use:

Consideration for existing and future categories, including new residential, commercial, industrial, agricultural, forestry, mining, public and quasi-public recreation, parks, open space and vacant or undeveloped land.



Transportation:

Consideration for major road improvements, new roads, transit projects, pedestrian and bicycle projects, and other elements of a network in coordination with land use.



COMPREHENSIVE PLAN PRIORITIES

5 Year Priorities

- Competitive Pay
- Larger Workforce
- More Affordable Housing
- More Youth Activities
- Diversity, Equity, and Inclusion



10 Year Priorities

- More Recreational Facilities
- Technology-Based Employment Opportunities
- Improved Entertainment Options
- Extension of Interstate 840 to State Route 96
- Expansion of the Airport
- Higher Education Opportunities
- Expand Tennessee College of Applied Technology (TCAT)



20 Year Priorities

- Revitalize Existing Developments
- Promote Internal Talent
- Generational Land Turnover Create Higher Density Development
- Diversify Existing Population
- Additional Recreational Opportunities
- Enhance Work From Home (WFH)
 Opportunities





How To Use This Document

Each of the core values, strategies, and actions included in this document are important for Dickson County to achieve its vision. In that sense, this plan is a living document that needs to be used and updated regularly. To be effective, it needs to influence the actions of County and municipal departments and encourage collaboration and cooperation between them. The Plan is a starting point where vision is articulated, themes are established, strategies are identified, and action items are defined.

A Tool for Decision Making

First and foremost, the Plan should serve as a reference tool that is referred to regularly and should be the foundation for internal actions and interactions with the County, local municipalities, and the region. The Core Values and Strategies in each element serve as these tools for decision making.

How to use in Decision Making



A Comprehensive Plan for Action:

The Plan also outlines specific action items in each element that achieves the core values and strategies. These action items are intended to be implemented within ten years' time. While this Plan provides specific steps for future action, it purposefully does not resolve all core principles and strategies with specific recommendations.

The Plan describes actions in terms of immediate activities that consist of:



Year 1 Years 1-3 Years 3-10 Years 10+

Adoption of Comprehensive Plan by Dickson County and participating municipalities Short-Term Activities from the Comprehensive Plan Implemented Mid-Term
Activities from the
Comprehensive
Plan Implemented

Long-Term
Activities from the
Comprehensive
Plan Implemented



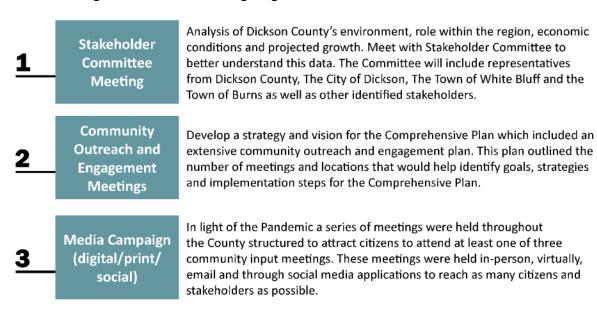
PROCESS: CAPTURING COMMUNITY VISION/GOALS

The comprehensive planning process was conducted after the social distancing requirements during the pandemic were lifted. Coming at the end of the pandemic, community engagement was slowly beginning again. As a changed result. community engagement resulting in citizens communicating through a variety of different platforms including virtual, web-based and in-person. We accommodated each of these communication avenues throughout the process.



PUBLIC INVOLVEMENT PROCESS

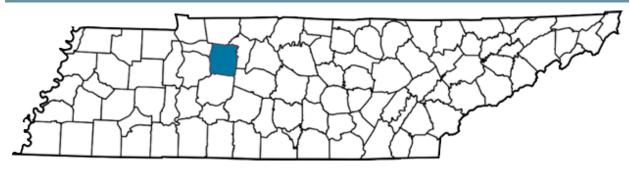
The process was organized in the following stages.



In 1790, President George Washington and the First United States Congress began to take the first US Census. Prior to this time, they had no idea how many citizens that the newly formed country held. This process was instrumental in helping them to develop the basic taxation laws and make plans for the future of the newly formed United States. In the same vein, it is important for each community to understand their population and the demographics of their community as they make plans for the future. The *Dickson County Comprehensive Plan* started by understanding the existing citizens and utilized data from the 2020 US Census.

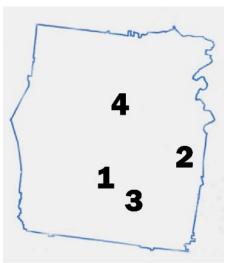
A GLIMPSE OF DICKSON COUNTY

US CENSUS BUREAU



Dickson County At A Glance

| † † † † † † | Population | 54,315 |
|----------------|----------------------------|----------|
| | Employment Rate | 58.6% |
| 000 | Median Age | 39.2 |
| | Median Household Income | \$61,388 |



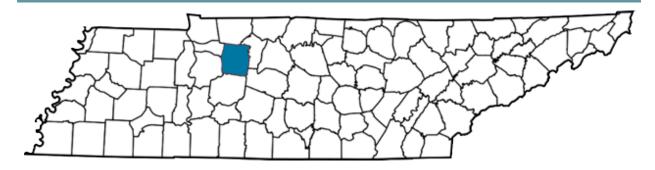
1. City of Dickson 2. Town of White Bluff 3. Town of Burns 4. City of Charlotte

Dickson County has over 489.9 square miles of land area with a population that is over 83% White. The largest minority groups consider themselves two or more races (5%) followed closely by the Hispanic or Latino population (4.5%) and the Black or African American Population (3%). Over 97% of the population speaks English. Dickson County and surrounding municipalities fall within the income averages with a small percentage of citizens below the poverty line. Only Burns and Charlotte currently fall below the national average. Dickson County is the 40th largest county in Tennessee by total area. Whether a railroad enthusiast, Civil War historian, or a music fan there is something fun and exciting waiting for you in Dickson County.

We have included similar information on the following pages for the areas that make up the 2043 Comprehensive Plan.

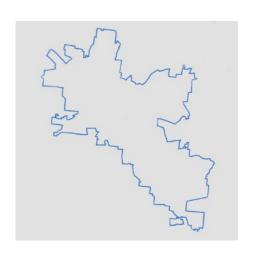
A GLIMPSE OF DICKSON COUNTY

US CENSUS BUREAU



City of Dickson At A Glance

| ŤŤŤ ŤŮŮ | Population | 16,058 |
|------------|----------------------------|----------|
| | Employment Rate | 59.4% |
| 000 | Median Age | 35.0 |
| | Median Household Income | \$55,318 |



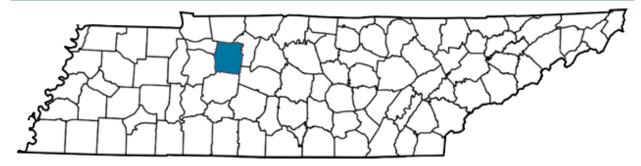
The City of Dickson has over 20.41 square miles of land area and owes much of its history to the railroad which connected Nashville to the Tennessee River as well as the Cumberland Furnace iron industry that ran between Dickson and the Cumberland River in Clarksville. The area is also home to the <u>Clement Railroad Museum</u> which celebrates the area's railroad heritage. Established in 1958, Dickson has hosted an Old Timers Day Festival every May that celebrates the history of the area through music and art.

Today Dickson is the 26th largest City in Tennessee with a population of 77% white, 8% African American, with Native Americans, Asians, and Hispanic and Latino races rounding out the racial makeup of the City.

https://www.cityofdickson.com/

A GLIMPSE OF DICKSON COUNTY

US CENSUS BUREAU



Town of White Bluff At A Glance

| ††† †ûû | Population | 3,862 |
|-------------------|----------------------------|----------|
| | Employment Rate | 66.5% |
| 0-0- | Median Age | 44.2 |
| | Median Household Income | \$53,696 |



Established in 1869, the Town of White Bluff has over 5.9 square miles of land area along US Route 70 in close proximity to the Nashville area. The population of White Bluff is over 90% white with Hispanic/Latino, Black/African American, and Native Americans making up the rest.

White Bluff plays host to many community events including the White Bluff Arts and Music Festival, Spring Fling, the Taste of White Bluff, Main Street Festival, July 4th Fireworks, Halloween Spooktacular and Christmas Parade. White Bluff is also home to the Bibb-White Bluff Civic Center, the Van F. Mills, M.D. Amphitheater, and the Jennie Woodworth Library.

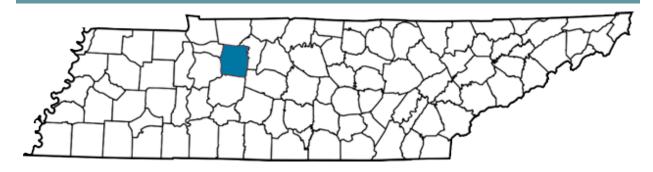
Currently under development, the future Bibb-White Bluff Nature Park promises to be another wonderful asset for this vibrant, growing community.

https://townofwhitebluff.com/



A GLIMPSE OF DICKSON COUNTY

US CENSUS BUREAU



Town of Burns At A Glance

| ††† †ůů | Population | 1,573 | |
|-------------------|----------------------------|----------|--|
| | Employment Rate | 63.6% | The state of the s |
| 0-0- | Median Age | 42.2 | |
| $\widetilde{000}$ | Median Household Income | \$60,417 | |

The Town of Burns is home to the Montgomery Bell State Park which is a natural oasis with three lakes nestled into 3,850 acres that provides camping, cabins, and a lodge available for events and festivals year round.

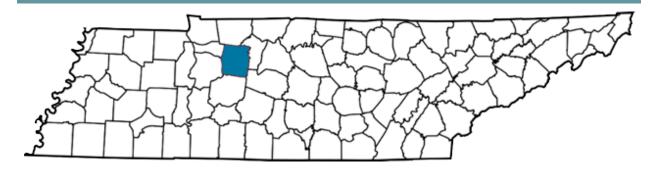
The area is over 88% white with nearly 2% black or African American with Native American, Hispanic/Latino making up the rest of the population. It's nearby access to I-840 and I-40 drives economic development and residential growth.

http://townofburnstn.net/



A GLIMPSE OF DICKSON COUNTY

US CENSUS BUREAU



City of Charlotte At A Glance

| † † † † Û Û | Population | 1,656 | |
|------------------------------|----------------------------|----------|---|
| | Employment Rate | 41.9% | |
| 000 | Median Age | 37.4 | 3 |
| | Median Household Income | \$47,941 | |

Established in 1804, Charlotte serves as the County Seat of Dickson County. Charlotte, home to the oldest still in use Courthouse in the State of Tennessee, sits along the western section of the Highland Rim. The area is over 87% white with nearly 7% Black or African American with Hispanic/Latino rounding out the rest of the municipality.

https://www.dicksoncountychamber.com/















DEMOGRAPHIC FORECASTS DASHBOARD

Datasets summarizing Dickson County's demographic forecasts were downloaded from the Greater Nashville Regional Council (GNRC) Demographic Forecasts Dashboard. The GNRC Dashboard provides public data on population and job projections for GNRC's 14 county region from 2017 through 2045, with projections provided incrementally through 2045. Demographic forecasts include base year totals and projections for population, population by race and ethnicity, population by age, jobs, and jobs by sector.

The base year, or 2017, is the first year from which projections begin. The population projection's base year data source is the American Community Survey 5-year estimates (2013-2017). The job projection's base year data source is the United States Bureau of Economic Analysis. GNRC sourced the projections from Woods and Poole Economics. Job sector classifications are based on the United States Census Bureau's North American Industry Classification System (NAICS).

Key takeaways from the Dashboard include the following:

- Dickson County's population and jobs are projected to grow 29% between 2017 and 2045.
- The Non-White population is projected to grow 165%.
- The Hispanic/Latino population is projected to grow 729%.
- 65 and Older are projected to grow the most at 115%.
- 25- to 65-year-olds are projected to grow 51% and still be the largest age demographic.
- Retail jobs will grow the most at 54%.
- Office jobs are projected to grow 37% and still be the largest job sector.

Table 1 summarizes the demographic projections from the Dashboard except for age and job sector. **Table 2** summarizes the demographic projections by age. **Table 3** summarizes the demographic projections by job sector.

TABLE 1: DICKSON COUNTY PROJECTIONS FOR POPULATION AND JOBS

| Demographic | 2017 | 2020 (Growth) | 2025 (Growth) | 2035 (Growth) | 2045 (Growth) | Growth (2017 to 2045) |
|-------------------------|--------|-------------------|-------------------|-----------------------------------|--------------------|--------------------------|
| Total Population | 51,341 | 53,116 (3.46%) | 56,089 (5.6%) | 61,698 66,221 (10%) (7.33%) 28.98 | | 28.98% |
| Non-White Population | 2,443 | 2,723 (11.46%) | 3,265 (19.9%) | 4,700 (43.95%) | 6,446 (37.15%) | 163.86% |
| Hispanics/ Latinos | 1,699 | 3,080 (81.28%) | 5,447 (76.85%) | 10,730 (96.99%) | 15,176 (41.44%) | 793.23% |
| Jobs | 25,579 | 26,664 (4.24%) | 27,705 (3.9%) | 31,124 (12.34%) | 33,019 (6.09%) | 29.09% |



TABLE 2: POPULATION PROJECTIONS BY AGE GROUP

| Age Group | 2017 | 2020 (Growth) | 2025 (Growth) | 2035 (Growth) | 2045 (Growth) | Growth (2017 to 2045) |
|--------------|-----------|----------------------|----------------------|-----------------------|-----------------------|--------------------------|
| Under 5 | 132,538 | 151,252 (14.12%) | 164,594 (8.82%) | 190,332 (15.64%) | 224,306 (18.85%) | 69.24% |
| 5 to 19 | 391,406 | 405,413 (3.58%) | 448,750 (10.69%) | 554,289 (23.52%) | 637,894 (15.08%) | 62.98% |
| 20 to 24 | 142,528 | 144,971 (1.78%) | 159,844 (10.26%) | 175,228 (9.62%) | 225,630 (28.76%) | 58.31% |
| 25 to 64 | 1,076,481 | 1,120,412 (4.08%) | 1,189,112 (6.13%) | 1,385,043 (16.48%) | 1,628,436 (17.57%) | 51.27% |
| 65 and Older | 238,435 | 276,518 (15.97% | 343,672 (23.29%) | 450,591 (31.11%) | 512,755 (13.80%) | 115.05% |

TABLE 3: JOB PROJECTIONS BY SECTOR

| Sector | 2017 | 2018 (Growth) | 2020 (Growth) | 2025 (Growth) | 2035 (Growth) | 2045 (Growth) | % Growth (2017 to 2045) |
|------------------------------|-------|------------------|------------------|-------------------|--------------------|-------------------|-------------------------------|
| Agriculture | 3,497 | 3,611 (3.27%) | 3,829 (6.03%) | 4,332 (13.13%) | 4,613 (6.50%) | 4,596 (-0.38%) | 31.42% |
| Government | 2,882 | 2,903 (0.72%) | 2,941 (1.32%) | 3,023 (2.77%) | 3,111 (2.92%) | 3,115 (0.13%) | 8.08% |
| Manufacturing | 3,785 | 3,795 (0.27%) | 3,808 (0.34% | 3,805 -0.08%) | 3,729 (-2.00%) | 3,608 (-3.25%) | -4.68% |
| Office | 9,383 | 9,493 (1.18%) | 9,740 (2.60%) | 10,441 (7.20%) | 11,858 (13.56%) | 12,889 (8.70%) | 37.37% |
| Retail | 4,829 | 4,936 (2.21%) | 5,126 (3.84%) | 5,572 (8.71%) | 6,485 (16.40%) | 7,443 (14.76%) | 54.13% |
| Transportation & Warehousing | 1,203 | 1,208 (0.29%) | 1,220 (1.02%) | 1,256 (2.98%) | 1,327 (5.64%) | 1,368 (3.08%) | 13.73% |

ECONOMIC DEVELPMENT

Core Values

- We are business friendly and create incentives to attract new businesses and support existing businesses.
- 2. We recognize that regional cooperation and coordination will expand opportunities for all.
- 3. We prepare our workforce with the skills to meet the needs of emerging opportunities.
- 4. We support clean and environmentally friendly industries and businesses that provide competitive pay to our citizens.
- 5. We support the growth and success of our County and local municipalities and collaborate on growth management and land use issues.





DICKSON COUNTY BY THE NUMBERS....

- Job growth 14% in 2022
- Employs 24,600 people
- 1 industrial park
- 9 active Industrial Sites
- Class I railroads 2,940 miles
- Class III railroads 763
 Miles
- 2,400 businesses
- 1.2 million workers within 60 minutes of Dickson County
- \$4.7 million in tourism taxes directly generated by visitors
- 672 hotel rooms with occupancy for over 654 visitors
- Average nightly hotel rate \$155.50
- 3 campgrounds
- 109 campsites with occupancy for over 600 visitors
- Average campsite cost \$28



CONTEXT

Dickson County's economy has a strong tradition of agricultural and forestry production. It is considered a suburb of Metro Nashville, which does provide significant opportunities.

Geographically

Dickson County is located in the Nashville metropolitan area within the State of Tennessee. It has relative proximity to regional transportation hubs like Chattanooga, Memphis, and Huntsville. Dickson County is situated in the central part of the state and is part of the Middle Tennessee region.

Geographically, Dickson County is bordered by several other counties:

- **To the north:** bordered by Montgomery County.
- To the east: bordered by Cheatham County.
- To the southeast: bordered by Williamson County.
- To the south: shares a border with Hickman County.
- **To the west:** bordered by Humphreys County.
- **To the northwest:** bordered by Houston County.

The County seat of Dickson County is the City of Charlotte, and the largest city in the County is the City of Dickson. The County covers an area of approximately 491 square miles (1,271 square kilometers) and is characterized by a mix of rural and suburban areas, with a variety of landscapes including rolling hills, farmland, and forests.

Economic Drivers

Dickson County has a strong manufacturing and industrial base, with companies in sectors such as automotive, aerospace, and advanced manufacturing. These industries provide employment opportunities and contribute to the local economy through job creation, capital investment, and export of goods. The County has a rich agricultural heritage and is known for its diverse agricultural products, including crops, livestock, and poultry.

Agribusinesses such as food processing, distribution, and equipment manufacturing play a significant role in the local economy.

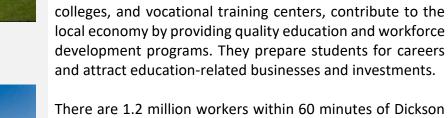


The healthcare sector is another major economic driver in Dickson County. The presence of hospitals, medical clinics, and specialized healthcare providers not only provides essential services to the community but also creates jobs and attracts healthcare-related businesses.



Retail and hospitality sectors contribute to the local economy by providing goods and services to citizens and visitors. The presence of shopping centers, restaurants, hotels, and other tourism-related businesses generate employment opportunities and support local businesses.

Dickson County's educational institutions, including schools,





There are 1.2 million workers within 60 minutes of Dickson County. Many who live in Dickson County but work elsewhere. Dickson County has Interstate thoroughfares (I-40 and I-840), and State Highways 70, 46, 47, 48 and 49 that provide easy access to the region's largest cities. Railroad access is essential to a variety of manufacturing industries in the area.



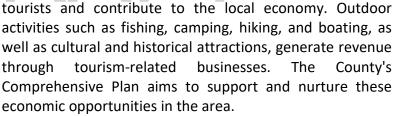
Dickson County has access to both Class I and Class III railway lines. Dickson County Municipal Airport offers two runways to service a variety of small engine aircraft.

The County's strategic location with access to major transportation routes, including highways and rail, makes it attractive for transportation and logistics companies. These businesses facilitate the movement of goods, create employment, and support supply chain activities. Dickson County fosters a vibrant small business community and entrepreneurial spirit.

Local businesses in various sectors, including retail, services, and professional services, contribute to the local economy and create job opportunities. Dickson County's natural beauty, recreational areas, and historical sites attract







Industries

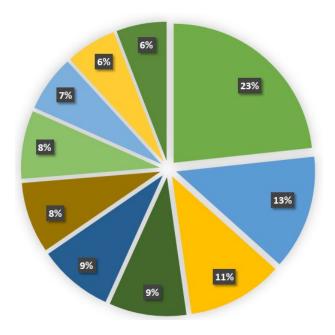


While the Cumberland Furnace Iron Works closed in 1942, it began the long history of manufacturing in Dickson County in 1793. Manufacturing has continued to be a prosperous industry within Dickson County as currently the community houses over 30 manufacturing locations. Manufacturing provides 12.9% of the positions within the County.

The service and retail industry currently provides over 60% of the jobs within Dickson County. Service and retail positions include healthcare, government and education employees that serve the citizens of Dickson County as well as the Nashville Metropolitan Area.







- Dickson County School District 23%
- Tennsco 13%
- TriStar Horizon Medical Center 11%
- Walmart Super Center 9%
- Nemak 9%
- Dickson County Government 8%
- Shiloh Industries 8%
- Monogram Foods (ConAgra Foods) 7%
- NHC Dickson 6%
- Dickson Medical Associates 6%

Education and Workforce

Dickson County is home to over 54,315 people. There are over 1.2 million potential workers within 60 minutes of Dickson County. The population is projected to grow to 80,709 people by 2040.

Dickson County is home to the Tennessee College of Applied Technology (TCAT) which provides technical and workforce specific education including industrial maintenance, machine tool technology, mechatronics, HVAC, diesel powered equipment technology, welding and more. Through the state programs, they can offer custom employee training as well.

Nashville State Community College has a satellite campus in Dickson offering access to over 80 programs across several industries. This provides undergraduate, graduate, and doctoral degrees in behavioral sciences, business, education, nursing, and theology.

Tourism

Dickson County offers various attractions and activities that appeal to tourists such as Montgomery Bell State Park. This state park offers a range of outdoor activities such as hiking, fishing, camping, boating, and golfing. The park features scenic trails, lakes, picnic areas, and a historic iron ore furnace site.

Situated in the historic downtown Dickson area, the <u>Clement Railroad Hotel and Museum</u> highlights the history of the town during the Civil War and its connection to the railroad industry. The museum offers opportunities to explore exhibits, artifacts, and learn about the impact of railroads on the local community.

The Hotel Halbrook, formerly managed by the family of Tennessee Governor Frank G. Clement, holds the distinguished status of being a State Historic Site under the supervision of the Tennessee Historical Commission.

Just to the east of Dickson County, the Narrows of the Harpeth is a natural scenic area along the Harpeth River that offers opportunities for canoeing, kayaking, hiking, and wildlife viewing. It is also known for its limestone bluffs, historic sites, and picturesque landscapes.

Dickson County hosts a variety of festivals and events throughout the year, showcasing local music, arts and crafts, food, and community spirit.

These include:

- The Dickson County Fair
- White Bluff Main Street Festival
- Old Timer's Day
- Charlotte Festival
- White Bluff Arts and Music Festival
- Promise Land Arts and Music Festival
- Burns BBQ Bash

The County's agricultural heritage provides opportunities for agritourism, where visitors can experience farm life, pick fruits or vegetables, go on hayrides, and participate in farm tours. Agriculture tourism is strong in the area, giving opportunities to capitalize on Dickson County's picturesque agricultural setting as a backdrop for weddings, recreation, and corporate events. Some farms in Dickson County offer these experiences to visitors such as Keller's Corny Country Pumpkin Patch & Corn Maze and Welker's Farm.

The downtown area of Dickson has historic charm with its well-preserved buildings, local shops, restaurants, and community events. Visitors can explore the downtown area and experience its unique atmosphere. Dickson County also has various antique shops, thrift stores, and flea markets that attract collectors and bargain hunters. Visitors can browse through unique items and discover hidden treasures. The County's natural beauty, recreational opportunities, historical sites, and local events contribute to its appeal as a tourist destination. Dickson County has six stops on the Screaming Eagle Tennessee State trail system which is part of the State's Tourism Campaign.

<u>Montgomery Bell State Park</u> is the main tourist attraction in Dickson County. As one of Tennessee's largest state parks, it provides a variety of outdoor activities and hosts multiple events each year. <u>GreyStone Golf Club</u> was named Golf Advisors' #1 Public Golf Course hosting the 2019 State Open and was home to the 2023 Tennessee State Open.



STRENGTHS

- **Location** Dickson County lies within the Nashville Metropolitan Statistical Area which allows for a variety of benefits within the area including educational, business, and tourism opportunities that capitalize on the area's natural landscape & beauty.
- Administrative The County has taken steps to create the Economic Development Alliance.
 The working relationships between the various municipalities and the County regarding
 economic growth and projects are agreeable and progressive. The Economic Development
 Alliance has programs in place for Industrial recruitment, business retention and expansion
 while the Chamber of Commerce focuses on relationships with local businesses.
- Montgomery Bell State Park The recent renovations as well as the increased interest in hiking, nature and camping are an asset to the livability of Dickson County and its tourism industry.
- **Transportation** Interstate, railroad, and aviation access provide a solid base for distribution of goods and services.
- **Tourism** Multiple wedding venues and agriculture tourism opportunities that take advantage of the natural landscape and beauty of the area.

WEAKNESSES

- Availability & capacity of infrastructure (wastewater treatment plant and broadband access).
- Younger generation moving out of the County seeking job opportunities elsewhere.
- Limited resources to dedicate to economic development, and a public conflict between growth and types of appropriate growth.
- Lack of public transit to work in the Nashville Metropolitan Area while living in Dickson County.

OPPORTUNITIES

- Large sites available for development to recruit industrial opportunities.
- Increase tourism by maximizing opportunities and potential to create 3-day events generating overnight stays, restaurant needs, and campground accommodation.
- Increase tourism with day trips from Nashville into Dickson County.
- Small business incubator program. There are a couple of existing facilities within the County that offer assistance to start-up businesses, but educating business entities as to how these facilities could benefit them would encourage more use.
- Expansion of agricultural tourism & wedding destination opportunities.

THREATS

- Conversion of available land to residential supply supporting the Nashville Metropolitan economy could cause a bedroom community effect which results in an increase in taxes to efficiently supply services to the citizens.
- Loss of a major employer or a downturn in the housing market could negatively impact Dickson County.
- Lack of options for wastewater treatment plant expansions and water/wastewater services.
- Citizen push for anti-growth policies.

NATURAL RESOURCES

Core Values

- 1. We depend on clean water to support our economy and recreational lifestyle.
- 2. We balance development with the preservation of our natural systems.
- 3. We value our agriculture heritage and our regional position as a provider of agricultural goods and services.
- 4. We value our relationship with Montgomery Bell State Park and the natural environment and the habitat that it preserves.
- 5. We recognize that our natural resources are also a source of tourism and economic vitality and embrace that legacy with a balance of preservation and conservation.



PAFT

DICKSON COUNTY BY THE NUMBERS

- 53 inches of rain on average per year
- 208 sunny days on average per year
- 2 inches of snow on average per year
- 120 freshwater streams

Climate and Weather

Generally, Tennessee has a temperate climate, with warm summers and mild winters. Specifically, the middle Tennessee climate is classified as humid subtropical climate. The area has an average of 53 inches of precipitation each year and only 2 inches of snow and the average number of sunny days is 208.

Elevation

Dickson County is located within an area known as the Highland Rim. The Highland Rim is identified as a wide circle touching the Tennessee River Valley in the west and the Cumberland Plateau in the east, together with the enclosed Central Basin make up the whole of Middle Tennessee. The Highland Rim ranges from about 600 feet in elevation along the Tennessee River to 1,000 feet in the east and rises 300 to 400 feet above the Central Basin which is a rolling plain of about 600 feet average elevation, but with a crescent of hills reaching to over 1,000 feet south of Nashville. The highest point in Dickson County is 960-980 feet. There are 12 named elevations in Dickson County, Tanbark Hill is the highest point, and the most prominent elevation change is Paint Rock Bluff.

Soils

In a typical profile of Dickson County, the topsoil is brown, friable (easily crumbles) silt loam. The subsoil is yellowish brown to pale brown, friable silt loam. The subsoil layer, at a depth ranging from 18 to 36 inches, is a compact and brittle layer called fragipan.

Groundwater

Tennessee, except for a small area east of Chattanooga, lies entirely within the drainage of the Mississippi River System.





Open Space

<u>Montgomery Bell State Park</u> is one of the largest natural resources in the County. It is preserved largely in a natural state and provides an area of recreation for all citizens.

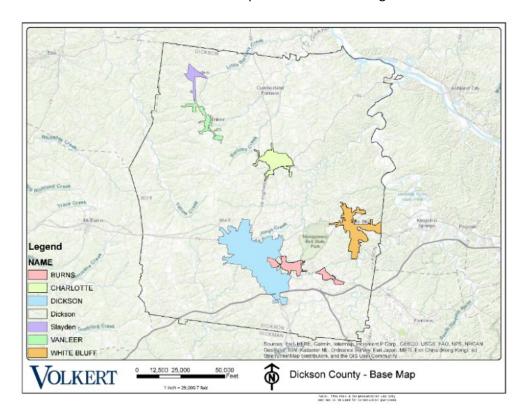
The City of Dickson and Town of White Bluff provide a variety of smaller parks and open spaces as well. Luther Lake is a 14-acre man-made lake popular for fishing and wildlife viewing as well as walking and running. City Lake is a 27-acre man-made lake that operates as a passive open space. White Bluff is currently planning an additional 50-acre nature park.

Environmental Strengths

- Citizen pride in the natural environment as evidenced by the investment in natural parks throughout the area surrounding the Montgomery Bell State Park.
- Montgomery Bell State Park recently renovated the Montgomery Bell Inn & Conference Center with support from the State of Tennessee.
- Vacant natural property is readily available.

Environmental Threats

Growth pressure from the Nashville Area has caused stress on natural resources and
ecosystems. As land is developed and natural habitats are fragmented or destroyed, biodiversity
loss and habitat degradation occur. Increased pollution, deforestation, water scarcity, and air
pollution are some of the environmental impacts associated with growth.



CULTURAL RESOURCES

Core Values

- We believe in protecting historic structures, communities, and characteristics within our County.
- 2. We believe in providing a variety of recreation opportunities that promote healthy living, social interactions, and our natural environment.
- 3. We understand that the County's attractiveness as a destination to live, work and play depends on a quality of life that includes cultural diversity and opportunities.
- 4. We support a variety of organizations that offer events and cultural opportunities.
- 5. We know that cultural diversity makes a strong and healthy community.



DICKSON COUNTY CULTURAL ATTRACTIONS

- Dickson Railroad Depot
- Montgomery Bell State Park
- Old Timers Day Festival
- Promise Land Community
- Bibb-White Bluff Civic Center
- Clement Railroad Hotel and Museum
- Cumberland Furnace Historic District
- Dickson County Historic Courthouse





Historic Resources

Railroad History – Dickson County has six communities that were developed along the Nashville to Tennessee River rail line. This created railroad history throughout the County in the forms of museums, tourist attractions, and educational opportunities.

The Dickson Railroad Depot, located in downtown Dickson, is a historic train station, built in 1914, that served as a hub for rail transportation in the county.

The <u>Clement Railroad Hotel and Museum</u>, situated in Dickson, is a historic building that originally served as a hotel for railroad passengers in the early 20th century. It now operates as a museum, showcasing the local history of the railroad and the role it played in the county's development.

Located just east of Dickson County in the Harpeth River State Park, the Montgomery Bell Tunnel is an impressive historic engineering feat associated with the area's early iron industry. Constructed in the mid-19th century, this tunnel is recognized as a National Historic Civil Engineering Landmark.

The Promise Land Community was established and settled by African Americans during the reconstruction period. In 2007 the Promise Land School was listed on the National Register of Historic Places (NRHP). In 2010, civil war trail markers were placed on the site of the historic school building. This opens the opportunity for educational and tourist attractions around this facility.









Scenic Highways

Dickson County is located within the Tennessee Trail System and is part of the Screaming Eagle Trail. The point of the trail is to explore charming small towns built by the iron industry featuring restaurants, tourist attractions. recreational activities. and retail opportunities.

It has six stops including:

- **Three Creeks Farm**
- **Historic Charlotte Square**
- **Country View Market**
- Montgomery Bell State Park
- **Historic Downtown Dickson**
- Keller's Farm

This opens the opportunity for tourist attractions around these locations that can show off the area's agricultural heritage.

Visual and Performing Arts

The Downtown Dickson area occasionally hosts art walks, where local artists display their works in participating businesses. This event allows visitors to explore the downtown area while enjoying diverse art forms.

The Dickson County Community Arts Council is dedicated to promoting and supporting the arts in the community. They organize events, exhibitions, and workshops, fostering collaboration and showcasing local talent. Dickson County's schools often host performances, student art showcases, exhibitions, providing opportunities for young artists to showcase their talents and engage with the community.

Several music and theater groups in Dickson County contribute to the performing arts scene. These groups may organize concerts, theater productions, and performances throughout the showcasing local talent and providing entertainment for the community.





Various individuals and organizations in Dickson County offer art classes and workshops in different mediums, providing opportunities for community members to learn and develop their artistic skills. Dickson County features public art installations, including sculptures, murals, and other forms of visual art, which contribute to the aesthetics and cultural enrichment of the area.

In White Bluff, the Bibb-White Bluff Civic Center, an arts and education focused facility, hosts concerts, live theater, singer-songwriter rounds, art shows and lectures. The Civic Center grounds, including the Van F. Mills, M.D. Amphitheater and a recently completed covered pavilion, offers a premier location for outdoor concerts, theater productions, festivals, and private events.

Located near Nashville, Dickson County has deep music connections that can be branded as tourist destinations that would result in overnight stays and hotel accommodations.



COMMUNITY FACILITIES

Core Values

- 1. We desire equitable access to quality facilities and services for all citizens to enjoy.
- 2. We believe that these facilities encourage community members to pursue personal and professional development through access to resources and educational opportunities.
- 3. We believe this is best achieved by providing common areas, meeting rooms, gathering spaces, and recreational amenities that encourage community members to connect and build relationships.





PAFT

DICKSON COUNTY BY THE NUMBERS

- 1 Detention Center
- 9 Fire Departments
- 150 Deputies
- 23rd Largest School District
- 8,500 Students

General Government

Dickson County has several governmental buildings located in the Charlotte area, including the Dickson County Administration Building, the Dickson County Justice Center, and the Dickson County Election Commission office.

In addition, located in the City of Dickson is the Dickson County Health Department and the Dickson County Government Building that includes the Dickson County Public Library and Life-long Learning Center and offers large meeting rooms and executive meeting space suitable for corporate events. There are also other County offices, City/Town Halls, and other municipal buildings available for public use upon request throughout the County.

The Town of White Bluff provides executive, corporate and public meeting and event spaces in the Bibb-White Bluff Civic Center, White Bluff Community Center, and White Bluff Town Hall. The Civic Center also contains the Jennie Woodworth Library, a local library of over 10,000 resources. Dickson County provides a branch of the Dickson County Health Department in White Bluff.

Fire

Dickson County is fortunate to have a variety of fire departments, both municipal and volunteer, which play a crucial role in ensuring the safety and well-being of our community.



- Dickson County Fire & Rescue Service
- City of Dickson 2 Stations
- White Bluff Fire Department
- Burns Volunteer Fire Department
- Vanleer Fire Department
- Charlotte Fire Department
- Claylick Volunteer Fire Department
- Cumberland Furnace Volunteer Fire Department
- Harpeth Ridge Volunteer Fire Department







Police & Detention Centers

Dickson County has law enforcement agencies responsible for maintaining public safety, including the Dickson County Sheriff's Office and municipal police departments. These agencies work collaboratively to enforce the law, respond to emergencies, and serve and protect the community.

The Dickson County Sheriff's Office serves as the primary law enforcement agency for the County, responsible for patrolling unincorporated areas and providing various law enforcement services. The sheriff's office in Dickson County is led by an elected sheriff and has specialized units such as investigations, K-9 units, and traffic enforcement. In addition to the sheriff's office, there are municipal police departments within Dickson County. The Patrol Division of the Dickson Police Department consists of 30 uniformed officers, commanded by a Captain and 4 shift supervisors. The Town of White Bluff Police Department consists of a Chief, Assistant Chief, 6 uniformed officers and various part-time and reserve officers and the Town of Burns has a Chief and 1 uniformed officer.

Dickson County operates the only detention center in the County, the Dickson County Jail, which serves as a secure facility for housing individuals who are arrested, awaiting trial, or serving sentences for criminal offenses. The jail is managed by the Dickson County Sheriff's Office and adheres to applicable laws and regulations concerning the custody and care of inmates.





Educational Facilities

The Dickson County school system is the 23rd largest school district in the state out of 142 different districts. The district services approximately 8,500 students and employees approximately 1,200 people. Over 6,000 students are transported each school day using 103 total buses which includes 17 special needs buses. They run 68 different bus routes with 13 special needs routes.

8 elementary schools:

- Dickson Elementary School
- Centennial Elementary School
- Oakmont Elementary School
- The Discovery School

4 Middle Schools:

- Dickson Middle School
- Burns Middle School

2 High Schools:

- Dickson County High School
- Creek Wood High School

2 Alternative Schools:

- New Direction Academy
- Distance Learning Academy

2 higher education schools:

- Tennessee College of Applied Technology (TCAT)
- Nashville State Community College

- Stuart Burns Elementary School
- White Bluff Elementary School
- Charlotte Elementary School
- Vanleer Elementary School
- William James Middle School
- Charlotte Middle School





Parks & Recreational Facilities

Dickson County is home to several <u>parks</u> maintained by local municipalities for residents and visitors to enjoy.

- <u>Montgomery Bell State Park</u> is a popular outdoor destination. It offers a wide range of recreational activities, including hiking trails, fishing, boating, camping, picnicking, and golfing. The park also has facilities for swimming, tennis, and basketball.
- <u>Luther Lake</u> is a 14-acre man-made lake popular for fishing and wildlife viewing as well as walking and running.
- <u>J. Dan Buckner Park</u> is a community park located in the heart of Dickson. The park offers amenities such as playgrounds, sports fields, walking trails, and picnic areas. Situated in downtown Dickson, War Memorial Plaza is a small park that pays tribute to the county's veterans. It features memorials, monuments, and green spaces for reflection and remembrance.

Henslee Park, which opened in 2023, has walking, running and biking trails as well as a 4,000 square foot splash pad and 25,000 square foot playground with inclusive and unique features. The seasonal splash pad opens around July 4th and closes around the time that the children head back to with school scheduled maintenance and cleaning days throughout use. It also includes a dog park open from sunrise to 10pm.



The Town of White Bluff, Town of Burns, and City of Charlotte offer additional amenities such as playgrounds, sports fields, walking trails, and community centers to the citizens. Throughout the county there are recreation centers that provide indoor facilities and programs for fitness, sports, and community activities. These centers may offer fitness equipment, gymnasiums, indoor pools, and dance classes for various age groups. These parks and recreational facilities can be utilized to attract multi-day athletic events which generate tourism dollars via hotel stays, restaurant usage and retail shopping.



Utility Infrastructure

Dickson County is completely served by the Dickson Electric Systems (DES) which is a public utility serving 38,000 customers in five counties in Tennessee: Dickson, Hickman, Cheatham, Houston, and Montgomery. The DES is a municipal electric utility owned and operated by the City of Dickson. The DES purchases power from the Tennessee Valley Authority (TVA) to provide reliable and affordable electricity to customers, offering services to residential, commercial, and industrial customers, setting rates based on factors like power purchase costs, infrastructure maintenance, and service provision. The DES emphasizes customer service and provides channels for inquiries, such as phone support and online account management. They also have programs to promote energy efficiency and may offer incentives for customers to reduce energy consumption. The DES is responsible for managing power outages in its service area. They often communicate outage updates and restoration timelines to customers through various means, such as automated phone calls, text messages, and online platforms.

DES is currently working on providing broadband services across Dickson County in partnership with Ignite Broadband. Ignite Broadband is a telecommunications company that provides high-speed Internet services in Dickson County to residential and business customers. Ignite Broadband employs various technologies to deliver Internet services, such as fiber-optic and fixed wireless connections. AT&T and Xfinity also provide fiber internet services in the more populated municipalities while other residents utilize satellite or home wireless capabilities.

Water & Wastewater

The Water Authority of Dickson County (WADC) is the largest provider of water in the County. The Water Authority was established in 2002 by the consolidation of the City of Dickson Water and Wastewater System, Turnbull-White Bluff Utility District and Harpeth Utility District. In 2006, they acquired the City of Fairview Water and Wastewater Department. This has allowed them to provide service to over 75% of the land mass in Dickson County as well as portions of the surrounding districts.



The WADC utilizes the Cumberland River in the north to produce drinking water. The Cumberland River Water Treatment Plant was completed in late 2003 as the first ultrafiltration membrane treatment facility in Tennessee. The Plant was designed to meet water supply needs for at least 50 years. It has a capacity of five-million-gallons-per-day with options for upgrades to 15-million-gallon-per-day with expansions. Combined with the Dickson Water Plant's 2.1-million-gallon capacity and the Turnbull Water Plant's capacity of 4.5-million-gallon-per-day, the WADC is prepared to supply customers' water needs in the County and beyond.



While the WADC operates multiple wastewater treatment Plants (WWTP), it is currently working to provide a fourth WWTP which would allow for future growth. The Jones Creek WWTP has recently implemented a rehabilitation project which has resulted in extending the life of the plant and allowing for improvements/opportunities in specific areas surrounding the Plant.

In 2006, WADC acquired the Fairview WWTP that resulted in improved compliance, termination of a sewer moratorium and removal of Flat Rock Branch as an impaired stream. This wastewater plant has the ability to take on additional customers in the Fairview area. In 2015, WADC acquired the Town of White Bluff's wastewater treatment facility as well as 933 customers and nearly 25 miles of sewer main.

Vanleer Water Works operates in the northern portion of the County to 1,200 customers in and around the town of Vanleer providing water services. The City of Charlotte has retained a wastewater treatment plant and provides sewer service.

Solid Waste & Recycling Centers

Dickson County provides ten convenience centers across the County. The County operates a landfill located on Eno Road in Dickson County. This landfill was operated by the City of Dickson from 1968 to 1977 when Dickson County assumed operations. It consists of approximately 74 acres. The landfill has undergone three expansions since it was first approved as a landfill in 1972. To reduce the number of recyclables going into the landfill, Dickson County has several projects including litter programs, Earth Day programs, public awareness campaigns, composting and expanding recycling at the Convenience Centers.

Dickson County's solid waste process involves the management and disposal of waste generated within the County. Residential, commercial, and industrial waste is collected by waste management services within the County. This typically includes the regular collection of household garbage, recycling materials, and bulk waste. Dickson County operates transfer stations where waste collected from various sources is consolidated and prepared for transportation to a designated landfill or recycling facility. These transfer stations serve as intermediate points between waste collection and final disposal.

Dickson County has a designated landfill for the disposal of non-recyclable waste. The landfill operates in compliance with state and federal regulations to ensure proper waste management and environmental protection. Waste is deposited in designated cells and covered with soil or other approved materials to minimize odor, litter, and environmental impact.

Dickson County promotes recycling as part of its solid waste management efforts. Recycling centers or drop-off locations are available for residents to deposit recyclable materials such as paper, plastic, glass, and metal. These materials are then processed and sent to recycling facilities for reuse or further processing. To ensure the proper handling and disposal of hazardous waste materials, Dickson County provides special collection events or designated facilities where residents can safely dispose of items such as household chemicals, batteries, electronics, and

other hazardous materials. Dickson County actively engages in education and outreach programs to promote waste reduction, recycling, and responsible waste management practices. These initiatives aim to raise awareness among residents, businesses, and schools about the importance of waste reduction, recycling, and the proper disposal of different waste streams.



LAND USE

Core Values

- 1. We believe that development should be focused on where it is best suited from an environmental, economic, infrastructure, and community service standpoint.
- 2. We respect private property and the ability for landowners to profit from their own land.
- 3. We collaborate regionally to coordinate the development of the built environment while protecting our natural environment.





DICKSON COUNTY EXISTING LAND USE

Agricultural Land

 Land used for Agriculture purposes or vacant property

Industrial

 Land utilized for manufacturing or more intense uses

Low Density Residential

Residential uses of 1
 acre or more in the
 County; .5 acres or more
 in the municipalities.

High Density Residential

 Residential uses on less than .5 acres

Natural

 Land uses that are left in forested or vacant states

Public

 Land owned for civic purposes



Historical Background

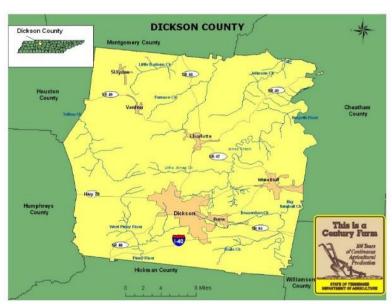
Dickson County has a long history of agricultural uses. Dickson County, the City of Dickson, Town of White Bluff and Town of Burns have all established their own zoning jurisdictions.

The current pressure from the growth rate of the nearby Nashville Area has created a pressure for agricultural land to turn into residential or commercial properties. This has created issues for community services such as water, sewer, and emergency services.

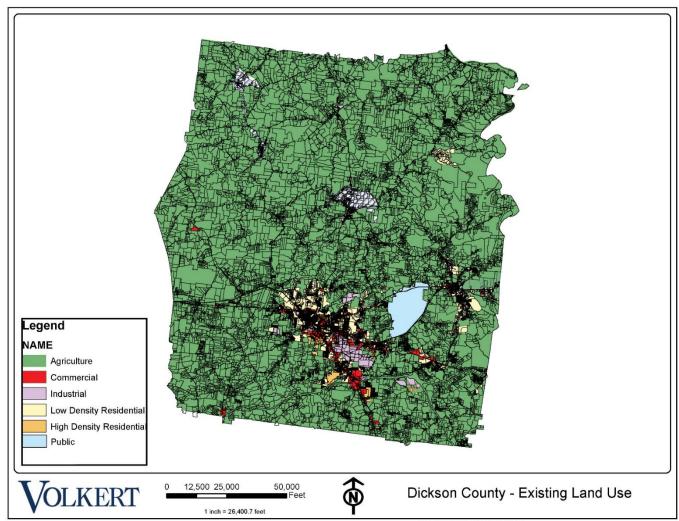
Current Planning Framework

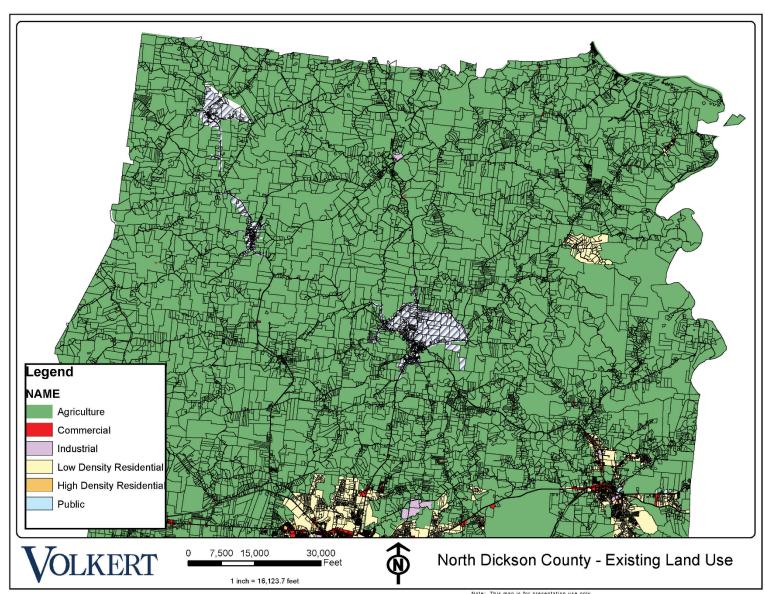
Dickson County and local municipalities have a broad district that encompasses agricultural uses as well as commercial and residential uses.

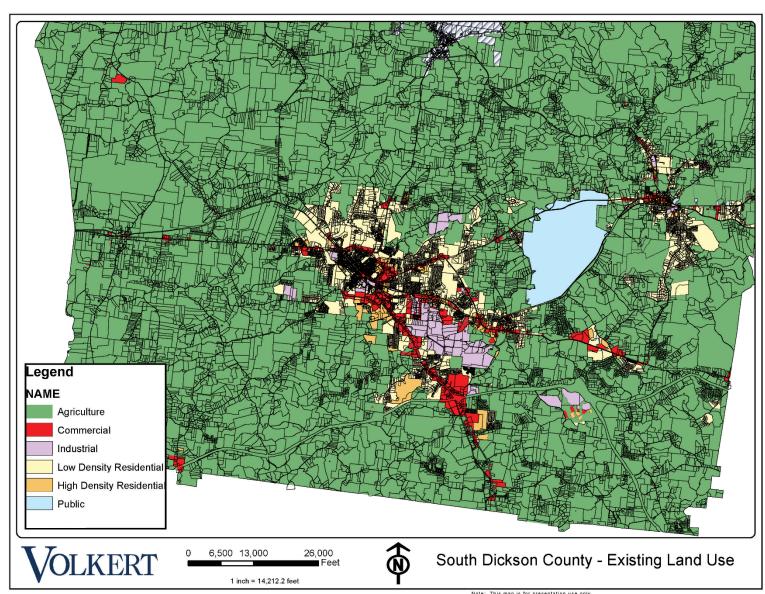
The current planning framework includes an agricultural zone to preserve the agricultural land use. This has been utilized in multiple counties across the state very effectively.

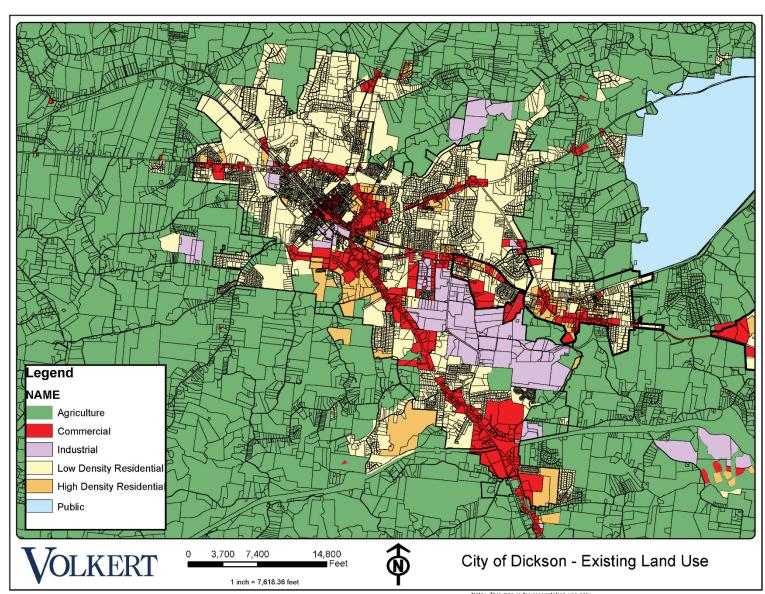


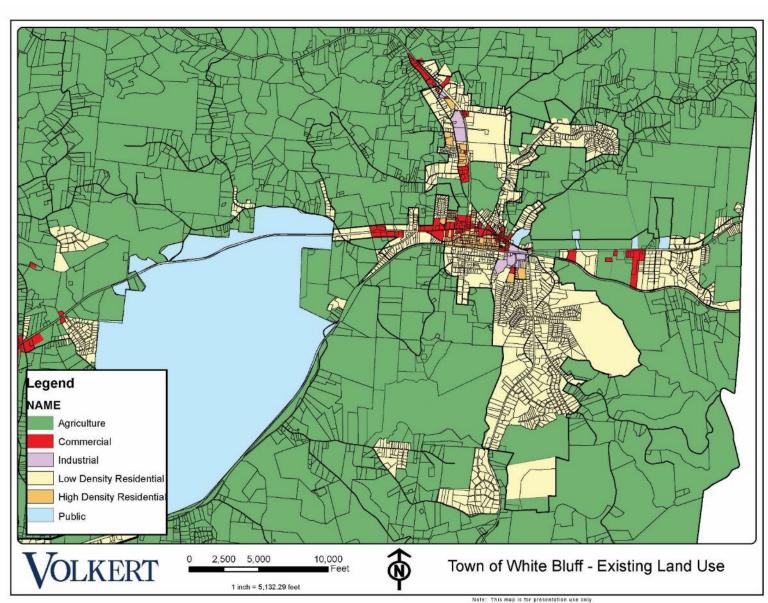
Land use and growth maps for the area can be found on the following pages.

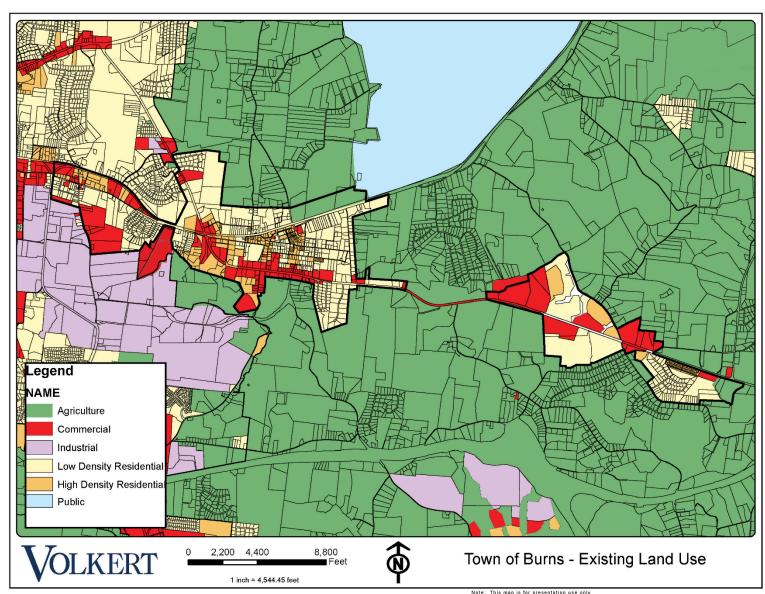


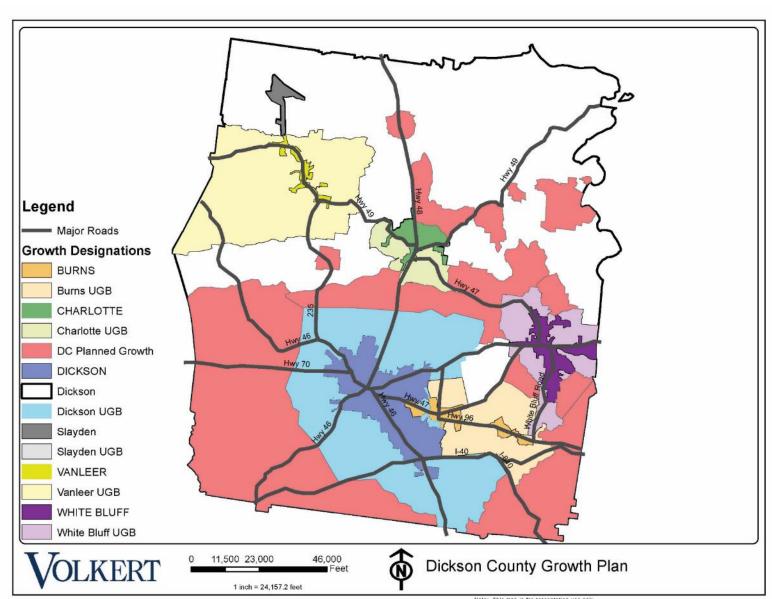














Proposed Future Land Use

The committee reviewed a variety of sources in determining the Future Land Use of Dickson County. This included public input from previously held meetings as well as information from utility providers, the state and economic development corporations. The following designations were created:

Agriculture — This district would be patterned after the existing agriculture district which allows for a variety of agriculture, commercial, and residential use. This requires that a minimum of a 1.5 acre lot size be reserved for agricultural use.

Agriculture Conservation — This district is proposed in areas where agriculture use has been present for 100+ years and is designated to receive a zoning that would allow for a minimum of 1.5 acre lot sizes reserved for agricultural use only.

Parks & Recreation — This district would allow for the property to remain in either passive parks, forested or formal recreation activity parks with no documented further restrictions.

Civic — This district is specifically for the use of the various jurisdictions at the state, County, and municipal level with no documented further restrictions.

Commercial/Mixed Commercial — This district would allow for all types of commercial uses including retail and restaurants with no documented further restrictions. For mixed commercial areas the district would allow for smaller and rural commercial uses such as produce stands, convenience stores, personal services such as offices, hair salons, etc. In the municipalities, this would allow for a true mix of residential uses with light commercial uses such as offices and personal services.

Industrial — Dickson County is fertile ground for emerging industries such as back-office enterprises or medical and automotive equipment production. Industrial districts include manufacturing facilities as well as warehouses, storage facilities, and other identified areas of site development for these types of facilities that utilize skilled workers to drive the local economy.

Residential Districts

- Low Density Residential This would include single family residential lots with a minimum of 20,000 sq ft.
- Medium Density Residential This would include a mixture of single-family residential lots with duplexes, town homes and condominium complexes. This should include a minimum of 7,500 sq ft lot sizes.
- *High Density Residential* This would include multi-family residential lots with requirements for lot size.

STRATEGIES & ACTION PLANS

Core Values

- 1. A Comprehensive Plan without strategies and actions for improvements remains stagnant and little use to the communities it's been designed to serve.
- 2. These strategies should only be implemented with the initial Core Values in mind of:
 - creating a community wide vision for the future.
 - creating resources to inform policy decisions.
 - set priorities for leadership to aid in decision making while achieving the goals of the Comprehensive Plan.





FORMALIZE EXISTING PROGRAMS

There are informal programs in place across Dickson County regarding business expansion and start-up businesses including a facility that is currently operating as an incubator to offer support and guidance for these expansions. These programs should be formalized and supported.

Suggested Actions

- 1. Hold regular meetings with existing businesses.
- 2. Hold regular meetings with facility owners of potential incubators to discuss issues and concerns that are impending development and land use.
- 3. Discussions on how to overcome those issues and concerns with County and municipal administrators.

ENTREPRENEUR BUSINESS PROGRAM & INCUBATOR

Entrepreneurs, with the right support, can evolve from small and rural communities and make a large impact. They are typically loyal and supportive to the community that supported them and are known to give back to the citizens that support them.

Suggested Actions

- 1. Set up a committee of local business owners to review other incubators and entrepreneurship programs.
- 2. Develop financial resources to create a grant program and mentor program to entice potential start-up programs and encourage site development without losing the natural agricultural history that attracted them to Dickson County in the first place.

TOURISM PROGRAMS

Several existing tourism programs should be formalized and utilized to create more formal campaigns.

Suggested Actions

- Tourism Day Trips Organize specific day trips between Nashville & Dickson County in order to attach the community to the larger tourist attractions in the Nashville area. This should include the potential of working with existing travel businesses or bus systems.
- 2. **Wedding Destination Campaign** Dickson County should build upon the successful and growing wedding industry in the area to become the preferred "Rural Wedding" destination outside of Nashville. A cost saving alternative to Nashville could potentially include working with wedding services such as florists, photographers,



venues, catering, and rental companies to market the area as a full-service wedding destination. The first step would be to create a listing of all the services and venues available and begin to work with them to create a campaign that can generate business for them while supporting County resources at the same time.

3. Tourism Events – The current festivals and events add to the livability and character of the communities. However, this does not typically result in an increase in overnight stays resulting in an increase in tourism dollars. A complete inventory of available facilities in Dickson County should be developed that highlights meeting spaces, overnight rooms available, natural and event spaces that could be utilized to boost tourism.

DIRECTING APPROPRIATE GROWTH

Bedroom community is the term used to identify areas in which people live, but all work, play, and business is completed in other adjacent communities. This causes difficulties in keeping taxes low to maintain services to the citizens including water, sewer, police, fire, and recreation. To combat the natural ability of the surrounding communities to become suburban areas of Nashville the following actions should be taken:

Suggested Actions

- 1. Review of existing zoning districts that would allow an increase in density in specific areas that have access to infrastructure and services allowing more rural areas to remain agriculture/nature specific.
- 2. Break down the County zoning Agricultural Districts into 3 different agricultural zones that would create distinct areas of preservation while outlining a plan for growth.

INDUSTRIAL SITE SURVEY & EXPANSION

The current industrial land is limited and difficult to market to the needs of the current job market.

Suggested Actions

- 1. Future Land Use Plans should identify the areas currently adjacent to existing industrial areas or services such as the interstate system and the airport as Industrial.
- 2. An Industrial Survey should be completed to identify potential industrial sites within the area. Consider a regional approach to sites that span boundaries (County/County) or (County/Municipal).



The Nashville Region has become a leader in aviation due to education programs at Middle Tennessee State University and Austin Peay State University as well as the variety of airports and the climate.

Suggested Actions

1. Develop regional partnerships with technical colleges and universities to provide additional training space and other programs within Dickson County.

PRESERVATION OF MONTGOMERY BELL STATE PARK

<u>Montgomery Bell State Park</u> is a highlight of Dickson County but it lies within the triangle of the three municipalities including Dickson, White Bluff and Burns. The growth of these jurisdictions has the potential to impact the natural aesthetic and tourism function of the park positively or negatively.

Suggested Actions

1. An overlay district should be created surrounding the Montgomery Bell State Park Area that allows for specific uses, design guidelines and required open space.

NEW ZONING MAP AND ORDINANCE

Dickson County should consider the establishment of a new zoning ordinance that includes the recommendations from the Land Use Plan and develop specific maps that will encourage growth without losing the area's history (i.e., new agricultural zones). Municipalities and other areas with appropriate infrastructure should support appropriate higher densities to help rural areas stay rural.

Suggested Actions

1. Discussion with the Planning Commission and staff regarding creating a new zoning ordinance.



FIRST STEPS

Set up the following Committees to oversee the implementation of this plan:

- 1. Existing Business Owners.
- 2. Entrepreneurship Committee.
- 3. Wedding Services Committee.
- 4. Task force of representatives of municipal Planning Commissions to begin the creation of an overlay district.
- 5. County Planning Commission to establish a Zoning Committee to study and implement a new zoning ordinance.

Detailed **Proposed** Future Land Use maps for Dickson County, City of Dickson, Town of White Bluff and Town of Burns as discussed during the preliminary planning phases of the Comprehensive Plan, can be made available for further discussion by municipalities.



TRANSPORTATION



Core Values

- 1. We believe in creating safe facilities for all modes of travel by designing and maintaining infrastructure to minimize accidents and injuries.
- 2. We will work towards efficiency of our transportation system to reduce congestion, travel times, and delays to enhance tourism and service to citizens by providing a connected multimodal network.
- 3. We believe in improving the nonvehicular infrastructure by creating transportation systems that promote active transportation such as walking and cycling.
- 4. We will improve connections between different modes of transportation, such as public transit, biking, walking, and private vehicles, to provide users with a wide range of transportation choices while recognizing the value of maintaining and preserving existing transportation infrastructure and assets to extend their useful life and minimize costs.

Prepared by: THE CORRADINO GROUP



Executive Summary

The transportation piece of the Comprehensive Plan is a strategic effort that incorporates consideration of all users of the transportation system. It acts as a guide for community decision-makers as they respond to and anticipate future growth while preserving the unique character found throughout the county and each municipality. This Plan differs from a traditional major thoroughfare plan in that analyses and recommendations consider all modes of travel, versus solely focusing on highway capacity (moving vehicles as efficiently as possible).

For the purposes of the transportation piece of the Plan, existing studies, plans, and guidelines for Dickson County, the City of Dickson, the Town of White Bluff, and the Town of Burns were reviewed to establish where and how the transportation network is being guided for future growth. Existing roadways, sidewalks, bicycle facilities and truck routes were inventoried, along with the collection of traffic data and crash history. Finally, analysis of the existing system and future growth helped determine recommendations for the transportation network, including infrastructure and policy, that will encourage safe, connected mode choices to enhance the overall mobility of the community.

Existing Conditions and Data Collection

For the Plan, the Annual Average Daily Traffic (AADT) volumes collected from TDOT count stations for the year of 2021 for all vehicle classifications, passenger vehicles, motorcycles, and trucks of all sizes was used for the analysis of the roadway segments.

Existing Traffic Operations

Based on the 2021 traffic volumes and existing roadway characteristics, evaluations were conducted to determine how well the roadways function throughout Dickson County. Specifically, the roadway segments that were determined to be operating at LOS D, E or F were identified for further study and potential improvements.

Projected 2043 Levels of Service (Existing Conditions)

By the year 2043, assuming no major improvements are made to the network, the levels of service are expected to degrade on some of Dickson County's major corridors. LOS analyses and evaluations were conducted to determine how well the roadways are expected to function throughout Dickson County in 2043. This resulting data was used to develop potential improvement projects for the network.

Safety Analysis of the Roadway Network

As part of this CTP, crash data for the last five years (2017-2021) was collected from the TDOT Enhanced Tennessee Roadway Information Management System (E-TRIMS) crash database. Once the top crash locations were identified, the study team delved into each segment to gather more information on crash trends, crash severity and manner of crash. Additionally, a site visit



was conducted on these selected roads to collect additional information on crash contributing factors. This analysis helped to propose recommended safety projects.

Pedestrian, Bicycle and Truck Analysis

Sidewalks are intended to help pedestrians move in a safe manner along a roadway, outside the vehicular path. When they are constructed to be aesthetically pleasing and properly located between uses, sidewalks further encourage walking trips.

According to the data collected from TDOT, there are two types of Bicycle Routes: Designated Bicycle Route and TN Bicycle Route. There are two state bicycle routes that intersect within Dickson County. One route is along US-70 within the project limits and the other is along SR 46, to the south of Dickson County, SR 235 (College Street) through the City of Dickson, and SR 46 north of the city. Other routes run along SR 48 (North), SR 96 (East), and SR 47.

According to the data collected from TDOT, there are two federal designated truck routes within Dickson County, US-70, and SR 96.

Recommendations

To keep the city's road system functioning safely and efficiently, recommended projects were selected based on the following:

- Existing reports and plans projects
- Public outreach and engagement
- Systematic safety analysis
- > Existing and future traffic operations
- Future land use evaluation

Recommended Projects with Cost Estimates

The projects identified as part of this study will help to meet three broad goals for improving the transportation system for Dickson County and participating public agencies:

- Relieving traffic congestion by providing additional capacity on the major corridors.
- ➤ Improving circulation by increasing the connectivity of the area network as the city continues to develop.
- Addressing the site-specific safety.

Proposed roadway projects for the 2043 Comprehensive Transportation Plan are grouped according to two timeframes: Short-Term and Long-Term. In all, as shown on Table 17: Recommended Projects and Cost, there were 15 identified Short-Term projects and 19 Long-Term projects.

Project Prioritization and Implementation

Implementation of transportation projects required justification for constructing the project and identification of funding sources. The projects identified in this Comprehensive Plan

Recommendations Section will address safety, connectivity, and mobility. The first step in the prioritization process requires the jurisdiction to determine a percentage of the total score that applies to each traffic issue (safety, operation, and connectivity) based on the benefits expected from construction of the project.

Identifying projects in the Comprehensive Plan is only the first step in the project delivery process. Moving projects through the design and construction phases requires planning and coordination that begins once funding for the project is identified. The possible funding sources identified in this plan include both federal and state options that usually require a local match. It is important to realize private funding through local developers can also serve as a funding source for some of these projects.

CONTEXT

The transportation portion of the Comprehensive Plan is a strategic effort that incorporates consideration of all users of the transportation system. This Plan particularly focuses on the intersection of land use and transportation goals. It acts as a guide for community decision-makers as they respond to and anticipate future growth while preserving the unique character found throughout the county and each municipality. The Plan differs from a traditional major thoroughfare plan in that analyses and recommendations consider all modes of travel, versus solely focusing on highway capacity (moving vehicles as efficiently as possible), and that links roadway function and accommodations to the area it serves.

To plan for the future, a strong understanding of the existing facilities in the transportation network and the pattern of land use in the community is required. For the purposes of this transportation part of the Plan, the Corradino Group reviewed existing studies, plans, and guidelines for Dickson County, the City of Dickson, the Town of White Bluff, and the Town of Burns to establish where and how the transportation network is being guided for future growth. They inventoried the existing roadways, sidewalks, bicycle facilities and truck routes, along with traffic data and crash history made available from TDOT for the communities. To prepare for future growth, the Corradino Group coordinated with County and municipal representatives to identify future projects and developments. Analysis of the existing system and future growth helped us determine recommendations for the transportation network, including infrastructure and policy, that will encourage safe, connected mode choices to enhance the overall mobility of the community.



Scope of Study

The scope of study for the transportation element of Plan is divided into five tasks: existing conditions & data collection, network analysis & evaluation, recommendations with cost estimates, prioritization & implementation, documentation, and GIS. Through these tasks the study focuses on four major aspects of inclusive transportation: Safety, Connectivity, Mode Choice, and Mobility [Figure 1].

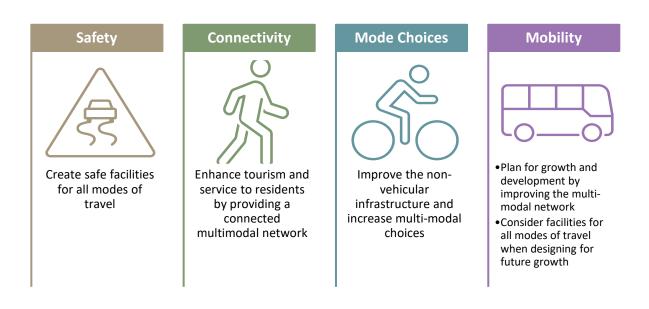


FIGURE 1: MAJOR ASPECTS OF THE INCLUSIVE TRANSPORTATION

All communities strive to provide a safe transportation network for all users. Planning adequate facilities designed for users of all levels, including children, older users, and various physical abilities, requires a design focused on expected movement between vehicles, pedestrians, and bicyclists. Properly connected facilities contribute to safer trips on the network.

An area with adequate connectivity is one that provides modal choices between different land uses identified as origin and destination trip pairs. For example, networks that connect residential areas with local parks and schools via sidewalks or separate bicycle facilities will promote walking and biking trips. Connecting residential areas to neighborhood retail, such as restaurants, convenience stores, and grocery stores, via sidewalks and separate bicycle facilities can also promote biking and walking trips. Promoting connected bicycle and pedestrian facilities accommodates mode choices for transportation trips.

Mode choices include providing safe, comfortable facilities for walking, biking, and vehicular trips. Separate facilities for vehicles, pedestrians, and bicycles and properly designed intersections where the three modes interact will help maintain good operation of the network.



Networks designed with these mode choices provide adequate mobility throughout the community.

Providing appropriate roadway characteristics so that interaction with pedestrians and cyclists occurs at expected locations is needed for a successful transportation network. The operation of a network's design is most successful when users can easily choose to walk or bike to destinations while providing adequate movement of vehicles.



This section deals with roadway operations focusing on the amount of traffic travelling through the road network of Dickson County and the various municipalities. Roadway level of service is analyzed for both existing and future conditions (without improvements) to understand current and future mobility of the study area.

Existing Functional Classification

The first step in gathering the existing conditions in Dickson County was to identify the roadway classifications based on established Federal Highway Administration (FHWA) standards which are like the TDOT functional classification system. Classifications are based on the purpose of the roadway and the purpose of the trips typically taken on the roadway. A brief description of each roadway classification is shown in Figure 2.

Local

- Carry a small amount of traffic at low speed
- •Serve trips that begin and end at residential uses
- •Through movements are limited

Collector

- Have a moderate amount of traffic travelling at a moderate speed
- •Serve vehicles travelling from local roadways to their destination or arterial roadway

Minor Arterial

- Have moderate to high volumes of traffic travelling at a moderate to high speed
- •Typically they will serve trips between collector roadways and their destination, major arterials or interstates

Major Arterial

- Have a moderate to high volume of traffic travelling at relatively high speeds
- •Serve traffic travelling between collector, arterial and higher classified roadways and tend to serve areas with dense development

Interstate

- •Intended to serve high speed traffic travelling long distances or between urbanized areas
- Connect larger cities and communities

FIGURE 2: TDOT FUNCTIONAL CLASSIFICATION SYSTEM

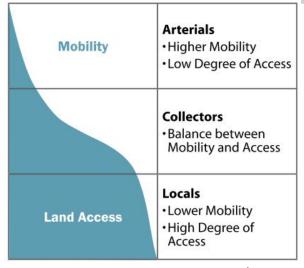


FIGURE 3: FUNCTIONAL CLASSIFICATION'S RELATIONSHIP TO MOBILITY AND ACCESS¹

¹ Safety Effectiveness of Highway Design Features: Volume I, Access Control, FHWA, 1992 Categories typically include interstate, principal and minor arterials, collectors, and local roads. As one moves up the hierarchy from local to collector to arterial to interstate, speeds generally increase and there is a corresponding decrease in access provided to adjoining properties (see Figure 3). Figure 4 shows the functional classification maps for the existing roads of Dickson County. The functional classification map and description of roadways in this study is limited to arterial and collector roads.

Based on the land use character, the roadway network and population base, it is evident that most of these arterial and collector roads are within rural settings. Primarily, the urban arterial and collector roads are mostly located within the City of Dickson. To understand the distribution of different road settings, a comparison of road mileage by functional classification between Dickson County and FHWA guideline is shown in Table 1 in Appendix B.

As discussed, it is important for the County and municipalities to continue establishing an adequate number of collector routes as new areas are developed, as opposed to having many local streets connect directly to arterial highways.

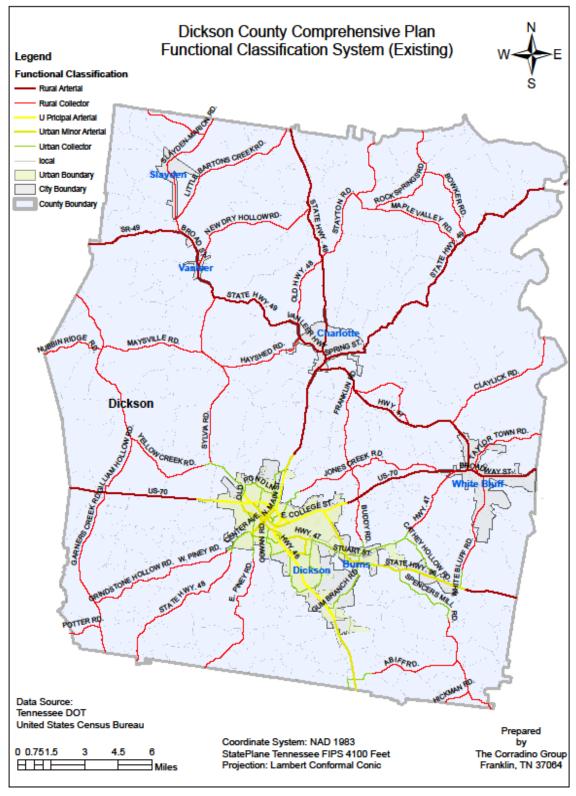


FIGURE 4: FUNCTIONAL CLASSIFICATION MAP FOR DICKSON COUNTY



Existing Traffic Volumes

Traffic volumes on the roadways help us identify where operational issues exist. For this Plan, the Annual Average Daily Traffic (AADT) volume was used for the analysis of the roadway segments. AADT volumes were collected from TDOT count stations for the year of 2021 for all vehicle classifications, passenger vehicles, motorcycles, and trucks of all sizes. It should be noted that the 2021 traffic volume data likely was still impacted by the COVID pandemic, which may have recorded some lower traffic volumes. However, with the generalized operational analysis of the corridors, the resulting Level of Service (LOS) is not expected to be significantly impacted by the potentially COVID impacted volumes.

Most often, the arterial roadways serve as the backbone of a region's transportation system, providing for the expeditious movement of people and goods. Dickson County is no different in that the arterials provide the much-needed mobility to/from major trip generators. Additionally, some collector roadways act as main commuting corridors in the county, specifically within the municipalities. Figure 5 shows the AADT map for Dickson County. Table 2 located in Appendix B shows the road segments having AADT of more than 10,000.

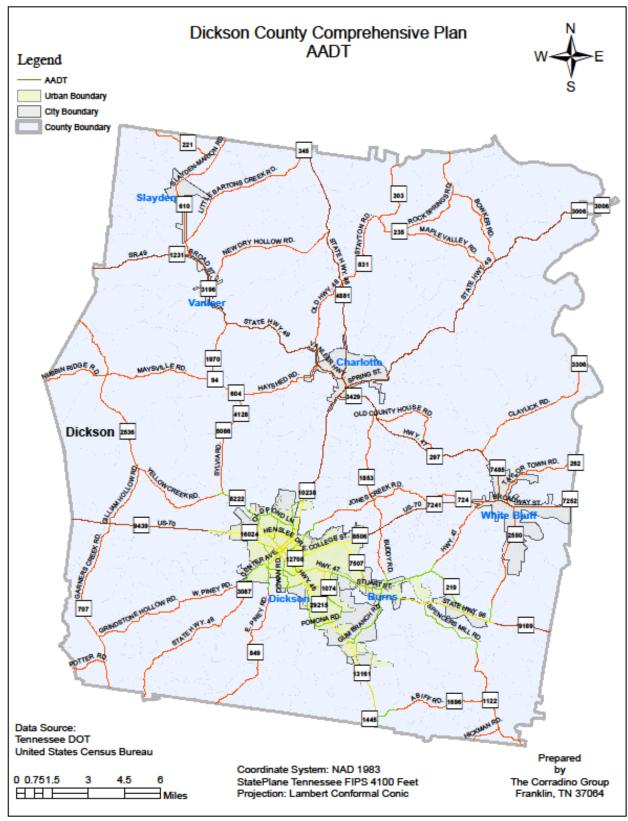


FIGURE 5: AADT MAP OF DICKSON COUNTY



Existing Traffic Operations

Based on the 2021 traffic volumes and existing roadway characteristics, evaluations were conducted to determine how well the roadways function throughout Dickson County. The segment analysis results in a LOS which represents operational function based on maneuverability, delays, and speed of vehicles. The LOS based on the daily traffic volumes and roadway geometry results in a value denoted as A through F as defined in Figure 6.

The evaluation is conducted using Highway Capacity Software (HCS). For the LOS determination, the following variables are used: AADT, design hourly volume (DHV), lane width, speed limit, shoulder width, access point density, truck traffic percentages, and peak hour factor. Analysis was conducted for all 203 roadway corridors, classified as collectors and arterials. Typically, LOS A through D is considered acceptable operation and LOS E or F is considered unacceptable. Figure 7 shows the LOS map for Dickson County. Table 3 shows the road segments having LOS E and/or LOS F. Table 4 shows the corridors with LOS D. The results of this analysis are included in Appendix C.

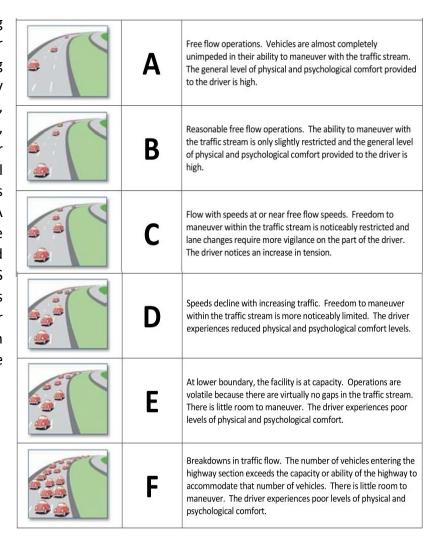


FIGURE 6: DESCRIPTION OF LEVEL OF SERVICE (LOS)

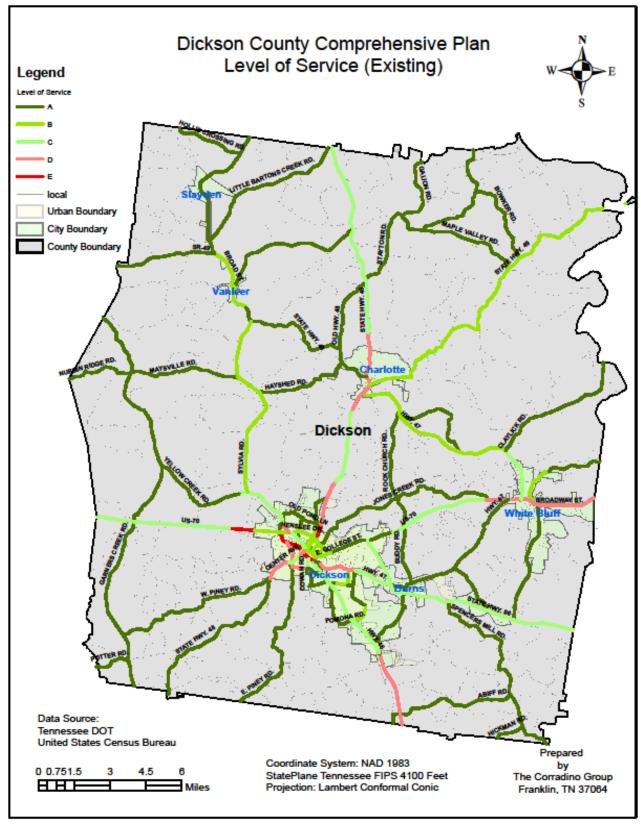


FIGURE 7: LOS MAP FOR DICKSON COUNTY (EXISTING)



2.4 Projected 2043 Levels of Service (Existing Conditions)

By the year 2043, assuming no major improvements are made, the level of service is expected to degrade on some of Dickson County's major corridors. The growth rate for every road segment was calculated using the TDOT count station. AADT for the last 10 years is utilized to calculate the growth rate. The final growth rate that is used for LOS calculation is determined using the calculated 10-year average growth and engineering judgement. Figure 8 shows the map for anticipated traffic operations on area roadways. Table 5, found in Appendix C, shows the 2043 AADT calculations based on the growth rate, existing and future 2043 LOS (LOS E and LOS F).

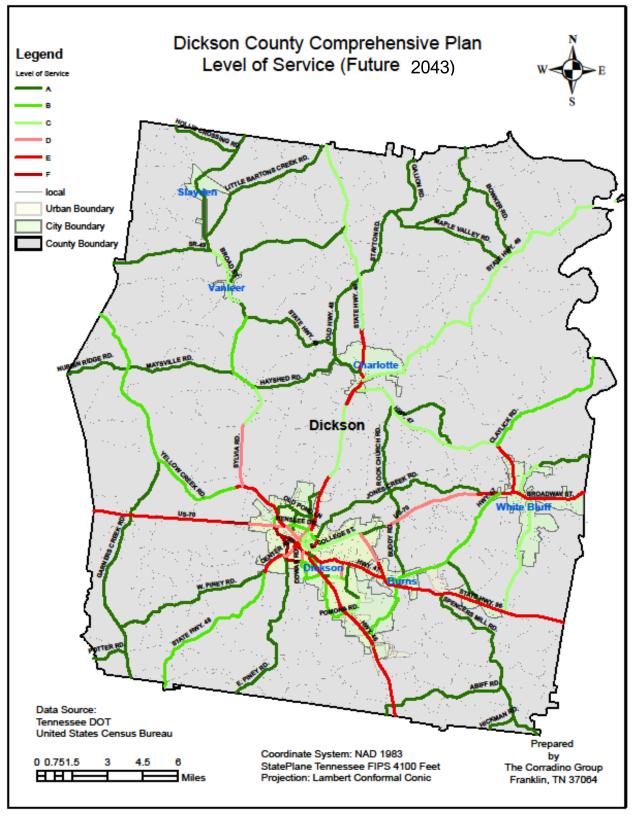


FIGURE 8: LOS MAP FOR DICKSON COUNTY (FUTURE 2043)



Safety Analysis of the Roadway Network

All agencies strive to provide a safe transportation network for vehicles, pedestrians, and cyclists. To achieve this goal, it is important to create a system where all users have an understanding and comfort with the use of facilities by all modes and interaction by all users is clearly established. As part of this CTP, crash data for the last five years (2017-2021) was collected from the TDOT Enhanced Tennessee Roadway Information Management System (E-TRIMS) crash database. Data obtained from the database includes severity of crash, collision type, time of crash, weather, and roadway conditions. From the information obtained and review of the data, a crash trend is attempted to be identified. A systematic approach was used to identify high crash locations and reduce the number of locations evaluated. Figure 9 shows the five-year crash history and associated severity map of Dickson County.

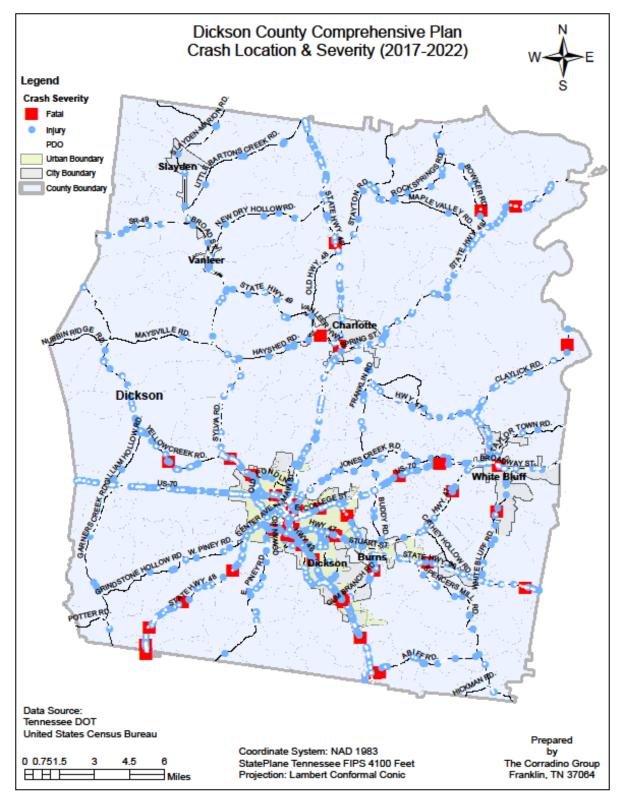


FIGURE 9: 5-YEAR (2017-2021) CRASH FOR DICKSON COUNTY



Crash Trend

Figure 10 shows the crash trends for Dickson County, the Town of White Bluff, the Town of Burns, and the City of Dickson in terms of severity. The information in the figure shows:

- From 2017-2020, a slight decreasing trend for the number of crashes. However, the 2021 crashes increased from 2020.
- The fatal crash proportion is less than one percent.
- Property Damage Only (PDO) crashes dominate the crash type in the study area.

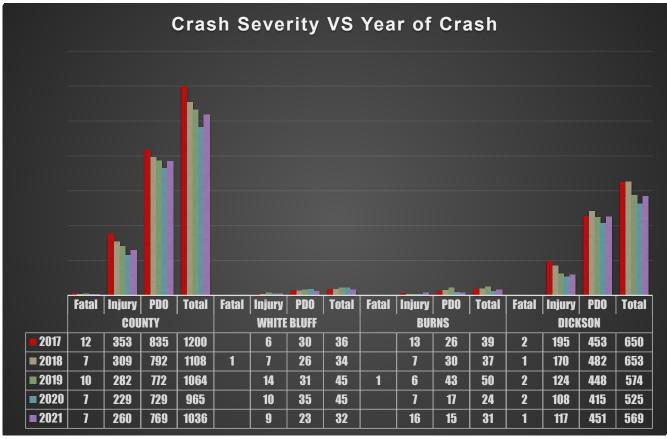


FIGURE 10: 5-YR CRASH TREND OF DICKSON COUNTY

Pedestrian, Bicycle and Truck Analysis

EXISTING SIDEWALKS AND BIKE FACILITIES

Walking and biking along roadways is allowed per law but adequate planning and construction of safe facilities are needed to help increase the number of pedestrians and bicyclists. The more comfortable it is for people to walk or bike, the more likely they are to choose this mode of travel.



Existing Sidewalk

Sidewalks are intended to help pedestrians move in a safe manner along a roadway, outside the vehicular path. When they are constructed to be aesthetically pleasing and properly located between uses, sidewalks further encourage walking trips. Inventory of the sidewalks conducted for Dickson County is illustrated in Figure 25. As shown, sidewalks are primarily only present within the urbanized areas.

In downtown area of the City of Dickson, especially College Street and Main Street, is where the heart and charm of the city reside. Businesses, restaurants, historic buildings, streetscapes, plazas, and pocket parks all add to the attraction of the downtown district. Sidewalks are available on West/East College Street, West/East Walnut Street, South/North Charlotte Street, South/North Main Street, and Center Avenue/Church Street near or within the downtown area of the City of Dickson.

Sidewalks in the Town of White Bluff are provided along portions of Highway 70/Broadway Street, along SR 47N from Highway 70 to just north of the commercial development, and on a portion of Charles Walton Speight Highway. In the City of Charlotte, sidewalks are available on Dunning Street, Court Square and Clark Street.

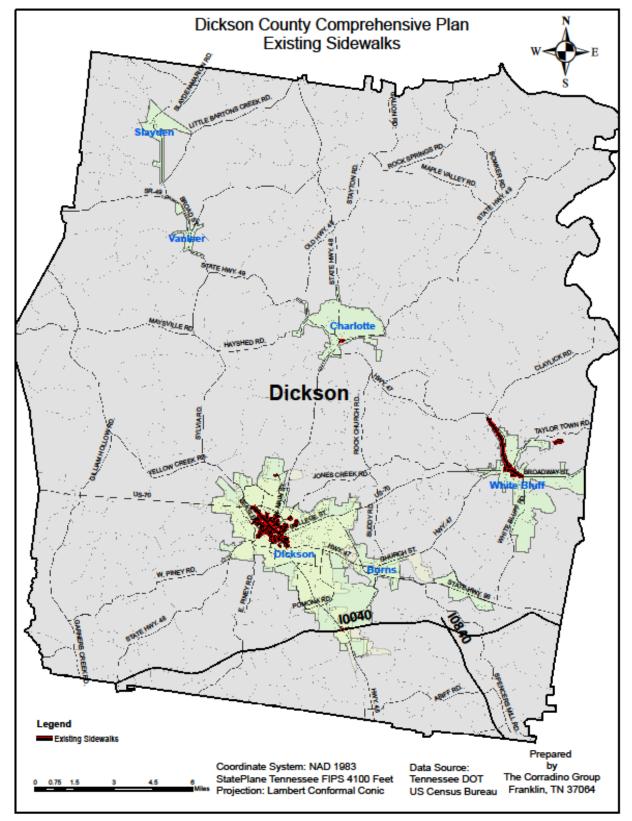


FIGURE 25: EXISTING SIDEWALK IN DICKSON COUNTY



Existing Bicycle Route

Some bicycle facilities require vehicles to share the lanes with bicycles. These types of facilities tend to be limited to most bicycle users who are not comfortable riding within the same stream of traffic as vehicles. Bicycle facilities that provide a separation from vehicular traffic encourage users of all abilities to utilize the routes. Separate bicycle facilities, including bike lanes, bike boulevards, side paths and greenways, create a safer, friendlier environment. These facilities, intended to serve all users, are good for providing a connection to parks and other recreational areas.

According to the data collected from TDOT, there are two types of Bicycle Routes: Designated Bicycle Route and TN Bicycle Route. Figure 26 shows the location of the bicycle routes for Dickson County. There are two state bicycle routes that intersect within Dickson County. One route is along US-70 within the project limits and the other is along SR 46, to the south of Dickson County, SR 235 (College Street) through the City of Dickson, and SR 46 north of the city. Other routes run along SR 48 (North), SR 96 (East), and SR 47.

Existing Truck Route

According to the data collected from TDOT, there are federal designated truck routes within Dickson County. The details of the routes are shown in Figure 27 and Table 16 (Appendix E). Most of the designated truck routes have acceptable LOS. However, US-70 starting from Valley Wood Drive going west 0.6 miles beyond, has LOS of E.

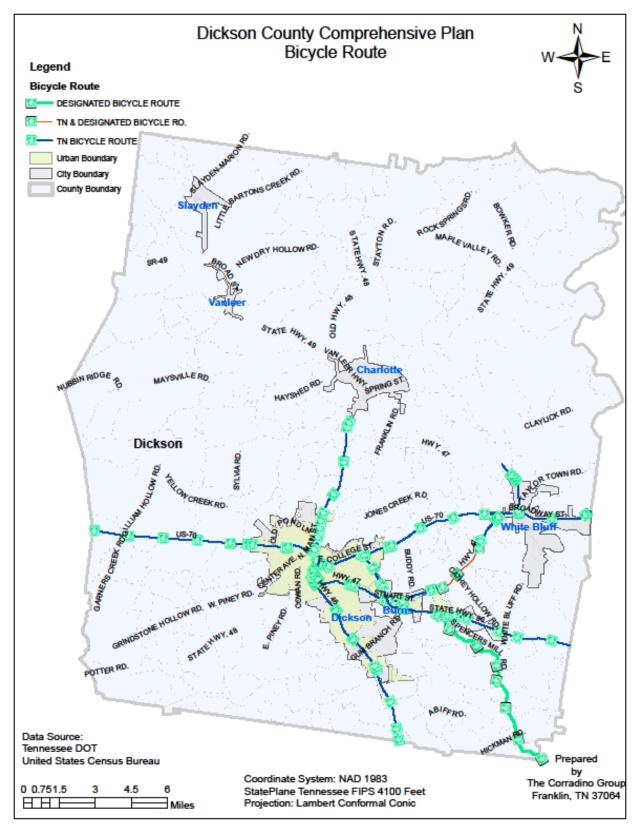


FIGURE 26: TN AND DESIGNATED BICYCLE ROUTE

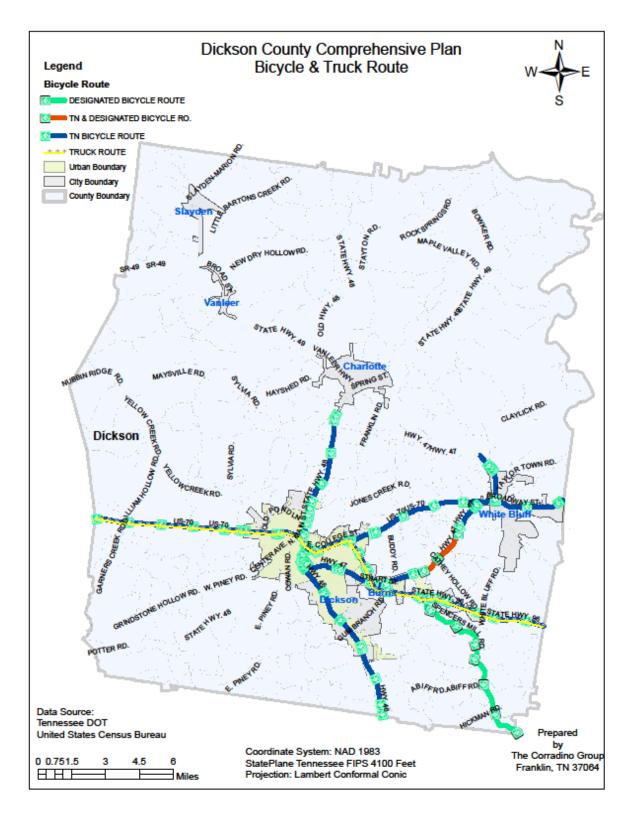


FIGURE 27: TN TRUCK AND BICYCLE ROUTE



Previous sections identified Dickson County area roadways that currently need improvement, or will by the year 2043, to keep the County's road system functioning safely and efficiently. This section presents recommendations to address safety and mobility for the study area. Recommended projects were selected based on the following:

- Existing reports and plans projects
- Public outreach and engagement
- Systematic safety analysis
- Existing and future traffic operations
- Future land use evaluation

Details of Reports, Plans, and Guidelines, public outreach and engagement, and future land use evaluation are described in the following paragraphs. Details on existing and future traffic operations and systematic safety analysis are already elaborated on in sections 2, 3 and 4.

Reports, Plans, and Guidelines that Influence Dickson County's Transportation System

To understand the influence of development and the effect future growth will have on the transportation system, a review of reports, plans, and guidelines that influence Dickson County's transportation system was performed. A summary of how each report, plan and guideline affects the transportation network is detailed in the following sections.

Bicycle and Pedestrian Master Plan (City of Dickson, October 2019)

The Dickson Bicycle and Pedestrian Master Plan was an important step in this endeavor, highlighting how improvements to the non-motorized realm can enhance the lives of residents. The City of Dickson hoped to extend the existing non-motorized facilities into areas where they were unavailable but needed for increased bicycle and pedestrian traffic. This comprehensive bicycle and pedestrian master plan were aimed to best determine the appropriate facility locations and extension and rehabilitation of current facilities to best create and maintain safe and reliable access for bicycle and pedestrian traffic to and from public spaces. This need was set in line with the other goals which include the following:

- Assist rural municipalities with planning efforts that define transportation cohesiveness between multimodal transportation systems and local land use objectives that achieve the statewide transportation goals.
- Aid in rural municipalities with the creation of planning documents that support improvements in traffic flow, safety, and overall efficiency of the transportation system.
- Provide rural city governments with planning resources to achieve community visions as related to transportation and land use needs that promote future economic growth.

Creating a Bicycle and Pedestrian Master Plan through a Comprehensive Plan will help lead to the improvement of many aspects of the community through the identification of typical facilities associated with bicycle and pedestrian travel. Using greenways, sidewalks, cycle tracks, and bike lanes can improve the following within a community:

- > Improve the health and well-being of residents with active travel.
- > Reduce costs for transportation due to less public mobility ridership.
- Reduce pollution and energy consumption brought on by automobiles.
- > Improve local economy from spurring economic development.
- > Enhance reliable and safe access to education and employment.
- > Increase home values due to proximity of bicycle and pedestrian facilities.

Recommended projects that will improve bicycle and pedestrian connectivity throughout the study area are highlighted in Figure 28 to Figure 30. These projects were developed based on feedback from City of Dickson staff and the public, safety concerns, connections to and from neighborhoods, and the state of existing facilities. Although this was not an exhaustive list of potential projects, they were of the highest priority, giving the city an understanding and a tool to use to plan for future facility implementation. Each facility area was capable of being its own project and could be paired with federal aid provided by TDOT.

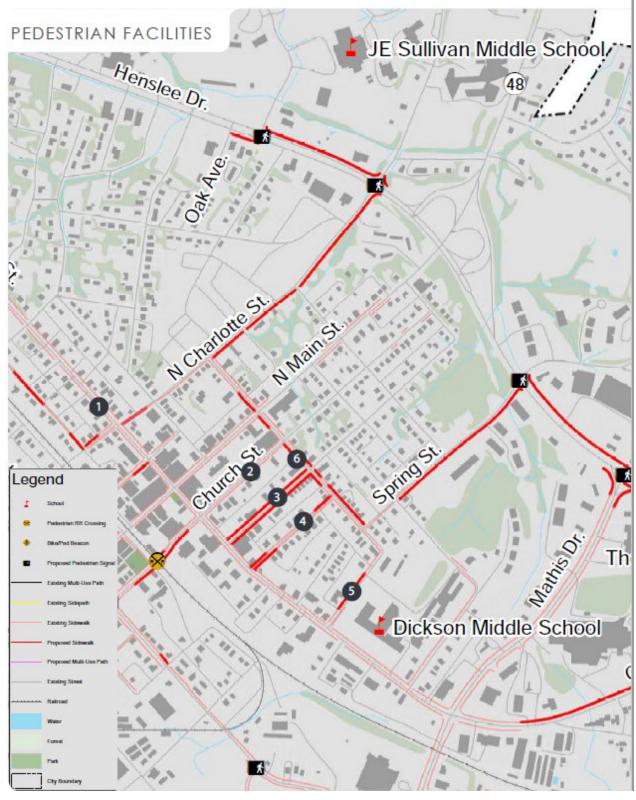


FIGURE 28: PROPOSED BICYCLE AND PEDESTRIAN ROUTES (SOURCE: BICYCLE AND PEDESTRIAN MASTER PLAN (CITY OF DICKSON, OCTOBER 2019)

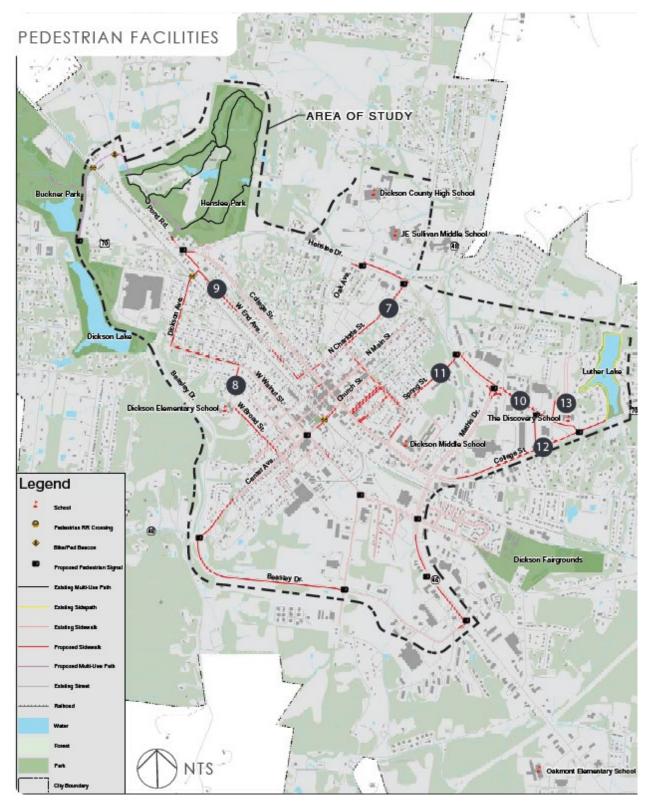


FIGURE 29: PROPOSED BICYCLE AND PEDESTRIAN ROUTES (SOURCE: BICYCLE AND PEDESTRIAN MASTER PLAN (CITY OF DICKSON, OCTOBER 2019)

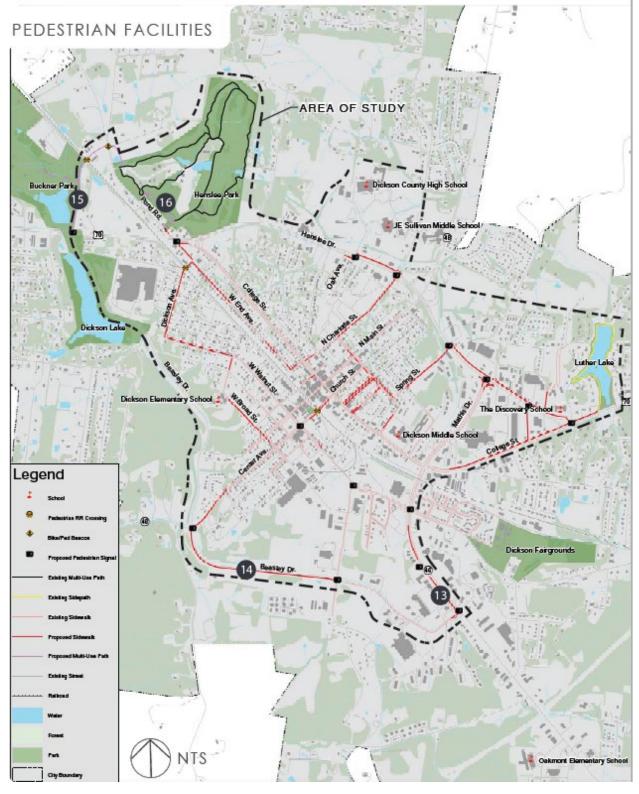


FIGURE 30: PROPOSED BICYCLE AND PEDESTRIAN ROUTES (SOURCE: BICYCLE AND PEDESTRIAN MASTER PLAN (CITY OF DICKSON, OCTOBER 2019)



Town Of White Bluff Community Mobility Plan (July 2021)

The goals and objectives of the plan were established with the Town of White Bluff and Dickson County to provide a safe transportation network for all users. Planning aimed to provide adequate facilities designed for users of all levels, including children, older users, and various physical abilities, requires a design focused on expected movement between vehicles, pedestrians, and bicyclists.

The Town of White Bluff Community Mobility Plan includes multimodal projects that contain roadways, greenways, sidewalks, and bicycle routes. This plan also outlines the types of Pedestrian and Bicycle facilities that White Bluff can follow in the future. Details of recommended projects are shown in Figure 31.

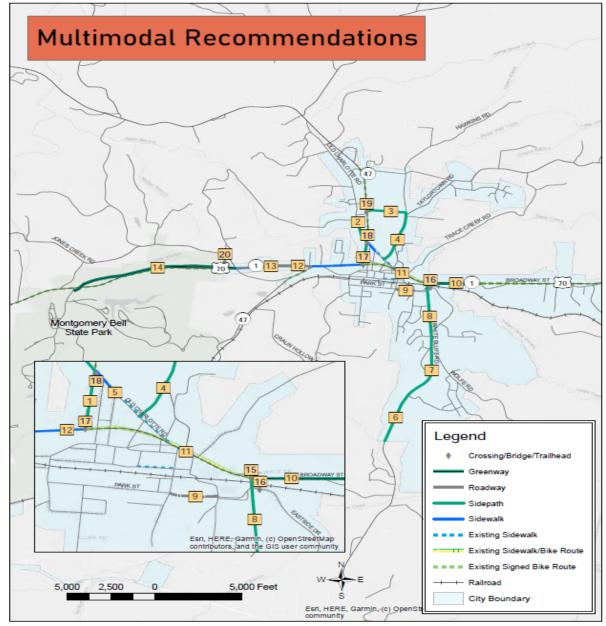


FIGURE 31: PROPOSED MULTIMODAL PROJECTS (SOURCE: TOWN OF WHITE BLUFF COMMUNITY MOBILITY PLAN, JULY 2021)

Both existing and future land use plans show that pedestrian and bicycle trip generators in Dickson County are mainly centered in the City of Dickson. A small share of generators exists in the Town of White Bluff. The future land use plan prepared for Dickson County supports these two studies. Therefore, this study would refer to these two studies for projects related to bicycle and pedestrian routes. With so much opportunity in Dickson County, it is vital that the public agencies continue to improve the facilities and infrastructure that provide the residents with alternative forms of safe pedestrian and bicyclist friendly transportation.



Public Outreach and Engagement

Successful transportation projects inform and involve the public from the planning phase through construction. As part of the Comprehensive Plan, we conducted in-person stakeholder and public meetings during the last year. Public participation was modified for safe outreach while ensuring everyone in the community was provided an equal opportunity to participate. To accomplish this, our team exhibited a series of maps to introduce the project to the public and give them an additional opportunity to ask questions and provide feedback. Comments from stakeholders and public meetings are attached in Appendix F.









FIGURE 32: PUBLIC MEETINGS FOR DICKSON COUNTY COMPREHENSIVE PLANNING

We used this information along with the existing characteristics of the network and existing operation to prepare recommendations for improving mobility in the community. The recommendations were presented to the stakeholder committee and the public to gather additional thoughts regarding where the transportation network needs improvements. Revisions were made to the recommendations based on the feedback provided.



Future Land Use Plan Evaluation

The future land use plan was reviewed from the transportation point of view to identify potential areas of major traffic generators. Focus was given to industrial and commercial development that has more connections with collector and arterial roads. Major industrial and commercial developments are observed near the City of Dickson and I-40/I-840. Also, under a proposal being studied by TDOT, westbound I-840 is potentially planned to continue to intersect with SR 96 in Burns.

Additionally, industrial and commercial development is expected just north and south of I-40 starting at/near SR 46 and going west for couple of miles. Another proposed industrial development area is anticipated on the southwest quadrant of the I-40 and I-840 interchange. Just north of the City of Dickson, near/around Jones Creek Road there is industrial zoning for future development. In addition to these large developments, other considerable industrial and commercial developments are expected along US-70 (west of the City of Dickson), east of North SR 47/ Charles Speight Highway, Cowan Road, Yellow Creek Road, and Pond Switch Road.

Recommended Projects with Cost Estimates

The projects identified as part of this study will help to meet three broad goals for improving the transportation system for Dickson County and participating public agencies:

- Relieving traffic congestion by providing additional capacity on the major corridors.
- Improving circulation by increasing the connectivity of the area network as the city continues to develop.
- Addressing the site-specific safety.

Proposed roadway projects for the 2043 Comprehensive Plan are grouped according to two timeframes: Short-Term and Long-Term. Table 17 represents a comprehensive list of the short-and long-term projects. Figure 33 and Figure 34 graphically show the recommended projects. Project sheets are included in Appendix G.

For purposes of capital improvement planning and long-range budgeting, Table 17 also includes high-level planning opinion of probable cost of each project. The costs are presented in current (2022) dollars and were developed using TDOT's methodology for planning-level cost estimates. This method uses a typical base unit cost per foot (adjusted periodically by TDOT to reflect current conditions). Adjustment factors are applied depending on the nature of construction (route is being widened, new roads being built, etc.), the type of terrain involved, and the intensity of adjoining land uses, which affects right-of-way costs. Once a project begins development, additional factors may be discovered which result in greater or lower costs.



| | | | | | Planning |
|------------|--|--|------------|---|-------------------------------|
| ID | Route Name | Location | Length | Improvement | Level |
| ישו | (Number) | Location | (Mile) | improvement | Opinion of |
| | | | | | Cost |
| | | Short Ter | m Project | s | |
| S1 | Beasley Drive | Center Avenue to West Walnut Street | 1.00 | Widen to 3 lanes OR Widen to 5 lanes | \$1,750,000 to \$5,250,000 |
| | | West Walnut Street to US- | | Widen to 3 lanes OR | \$1,050,000 to |
| S2 | Beasley Drive | 70/ West College Street | 0.60 | Widen to 5 lanes | \$3,250,000 |
| S3 | Broadway Street | SR 47 North to SR 47 South | 0.60 | TWLTL | \$1,050,000 |
| S4 | Beasley Drive | SR 46 to Cowan Road | 0.60 | Safety measures | \$450,000 |
| S5 | SR 46 | I-40 to East College Street | 5.00 | Safety measures | \$1,250,000 |
| S6 | Mathis Drive | East College Street to Henslee Drive | 0.50 | Safety measures | \$325,000 |
| S7 | Pump Hill Road / Jones Creek Road | Henslee Drive to US-70 | 8.50 | Safety measures | \$250,000 |
| S8 | North Main Street | Henslee Drive to Greer Circle | 0.65 | Widen to 3 lanes OR Widen to 5 lanes | \$1,200,000 to \$3,500,000 |
| S9 | US-70 | Valley West Drive to Pond Switch Road | 0.80 | Widen to 4 lanes with a positive median barrier | \$3,500,000 |
| S10 | Railroad Bridge & SR 47/ Cain Brake Road | At Railroad Bridge & SR 47/Cain Brake Road | 0.20 | Safety measures | \$30,000 |
| S11 | Abiff Road | Old SR 46 to Spencer Mill Road | 5.30 | Safety measures | \$200,000 |
| S12 | Gum Branch Road | McCutcheon Road to Reliance Road | 0.30 | Safety measures | \$150,000 |
| S13 | SR 48 | From just south of I-40 to West Piney Road | 7.30 | Safety measures | \$225,000 |
| S14 | Henslee Drive | SR 46 to Mathis Drive | 1.60 | Safety measures | \$1,000,000 |
| S15 | SR 48 | SR 47 to SR 49 | 0.80 | Widen to 4 lanes with access management. | \$4,200,000 |
| | | Long Terr | n Projects | s | |
| L1 | SR 96 | SR 47 to I-40 Interchange (Williamson County) | 9.00 | Widen to 4 lanes | \$48,000,000 |
| L2 | US-70 | Pond Switch Road to county boundary (west) | 5.50 | Widen to 4 lanes with a positive median barrier | \$35,000,000 |
| L3 | North Main Street | Greer Circle to Sylvia Road | 1.20 | Widen to 5 lanes | \$8,500,000 |
| L4 | SR 47 | East Railroad Street to SR 96 | 4.00 | Widen to 4 - 5 lanes | \$29,000,000 |
| L5 | Charles Walton Speight Highway/ SR 47 | Old Charlotte Road to Claylick Road | 2.00 | Widen to 4 lanes | \$14,000,000 |
| L6 | White Bluff Road | Broadway Street to SR 96 | 5.20 | Widen to 3 - 4 lanes with access management. | \$31,000,000 |
| L7 | Cowan Road | Beasley Drive to Barbeque Road | 0.90 | Widen to 3 - 4 lanes | \$4,750,000 |

| ID | Route Name (Number) | Location | Length (Mile) | Improvement | Planning Level Opinion of Cost |
|-----|--|--|------------------|---|---|
| L8 | Livestock Road (New Road) | Livestock Road to East Piney Road | 4.00+/- | Extend Livestock Road to East Piney Road. Classified as a Major Collector Road. | \$17,500,000 |
| L9 | Park Street/ Industrial Drive (New Road) | From Industrial Drive West to Main Street | 0.20 | Extend Industrial Drive to Park Street. Classified as a Minor Collector Road. | \$750,000 |
| L10 | Hwy 96/ North Hummingbird Lane (New Road) | US-70 to SR 48 via North Hummingbird Lane | 3.50+/- | Extend SR 96 north to SR 48. Classified as a Major Collector Road. | \$13,500,000 |
| L11 | Two Mile Road | Hogan Road to Titan Partners Fuel Terminal | 1.30 | Convert to a Collector Road (Improve to collector standards). | \$2,500,000 |
| L12 | Two Mile Road (New Road) | Titan Partners Fuel Terminal to Porter Road | 1.00 | Extend Two Mile Road south to Porter Road. Classified as a Collector Road. | \$3,500,000 |
| L13 | Porter Road | Hogan Road/Porter Road to southbound I-840 | 0.70 | Convert to a Collector Road (Improve to collector standards). | \$1,750,000 |
| L14 | I-840 (New Road) | I-840 to SR 96 | 1.50 | Extend I-840 north to SR 96. | (TDOT Plan) |
| L15 | Sylvia Road (New Road) | SR 46 to US-70 | 1.75+/- | Extend Sylvia Road south to US-70. Classified as a Collector Road. | \$6,500,000 |
| L16 | South Hummingbird Lane (New Road) | Blue Road to Marshall Stuart Drive | 0.80 | Extend South Hummingbird Lane south to Marshall Stuart Drive. Classified as a Collector Road. | \$3,000,000 |
| L17 | South Hummingbird Lane | Blue Road to US-70 | 0.75 | Convert to a Collector Road (Improve to collector standards). | \$1,750,000 |
| L18 | Sylvia Road (New Road) | US-70 to East Piney Road | 6.00 | Extend Sylvia Road south to East Piney Road. Classified as a Collector Road. | \$25,000,000 |
| L19 | I-40 Interchange (New Interchange) | At East Piney Road | - | Construct a new Interchange with East Piney Road. | - |

^{**}S=Short Term Project

^{**}L=Long Term Project

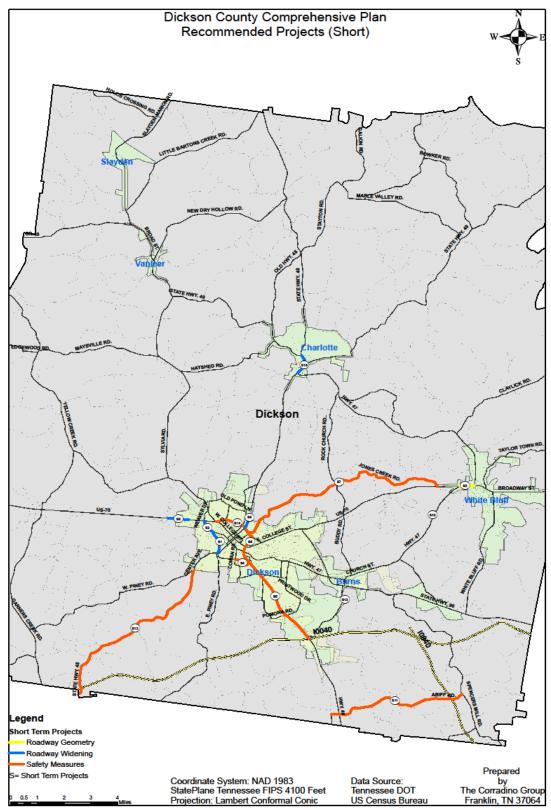


FIGURE 33: RECOMMENDED PROJECTS (SHORT TERM)

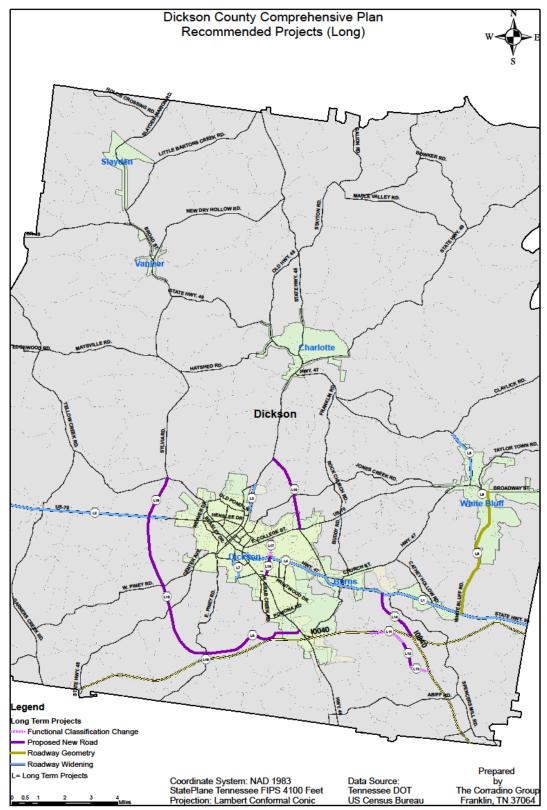


FIGURE 34: RECOMMENDED PROJECTS (LONG TERM)



Short Term Projects

Projects S1 & S2: Beasley Drive was built as a bypass to carry traffic mainly from SR 46 and US-70. These two segments of Beasley Drive, between Center Avenue and US-70, currently have two travel lanes. The southern segment **(S1)** carries a high volume of traffic mainly to and from SR 46. The northern segment **(S2)** has a high AADT coming to and from US-70 and West/East Walnut Drive. Both the segments have a high traffic growth rate of approximately 5%. Additionally, according to the future land use plan, the segment between West Walnut Drive and US-70 is expected to have industrial development on both sides of the road. Widening these two segments is expected to improve current traffic operation as well as accommodate newly generated traffic. Notably, the City of Dickson already has acquired ROW for **S1**.

<u>Project S3:</u> This 2-lane road segment runs east-west between SR 47 North and SR 47 South and has no median. Several driveways are present in this segment, particularly on the north side of the road. Currently this segment is operating at LOS D and has safety issues. According to TDOT Access Management Report, delay and the average crash rate on roadways with a two-way left-turn lane design guide (TWLTL) is less than that for undivided roadways. Therefore, changing median from no median to TWLTL is expected to help left turning vehicles thus improving mobility. Notably, upstream east of this segment already has TWLTL that needs to extend to SR 47 South.

<u>Project S4:</u> The main trip attraction of this segment is Walmart. Injury and PDO crashes are frequently observed on the segment between Thornton Drive and the Walmart north access. Also, a cluster of PDO and injury crashes were reported upstream of the intersection with SR 46. This segment requires different safety measures at various locations. Potential mitigations measures include:

- Replacing the TWLTL with a non-traversable median
- Constructing two northbound left turn lanes on Beasley Drive at the Walmart north access
- Converting the Walmart south access to a right-in and right-out only
- Adding signing and pavement markings
- Conducting a signal warrant analysis at the Walmart north access

Projects S5, S6 & S14: These segments of SR 46, Mathis Drive and Henslee Drive have identified safety issues. According to the crash analysis, the primary collision type is angle and rear-end crashes. Potential contributing factors are the presence of numerous driveways, TWLTL and closely spaced signalized intersections on a major arterial road. Additional studies for coordinated signal timings and access management could provide specific mitigation measures to improve safety and operations. According to TDOT Access Management Report, the safety advantage of a non-traversable median over a TWLTL increases when the ADT exceeds 24,000 to 28,000 VPD.

Projects S7, S10-S13: All these segments have similar safety issues with similar contributing factors: run-off-road crashes, horizontal and vertical curvature, potential speeding, and sight distance issues; thus, requiring similar safety countermeasures. Further study should focus on speeds and geometric deficiencies throughout the corridor and installation of warning and advisory signs/markings at curves (e.g., Curve Ahead). Additionally, installation of a guard rail along certain segments should be considered, such as on Gum Brunch Road **(S12)**.

<u>Projects S8 & S9:</u> Both segments currently operate at a poor LOS. The segment on US-70 (S9) between Valley West Drive and Pond Switch Road, carries traffic from the west side of Dickson County to the City of Dickson. Additionally, it is anticipated that traffic from Pond Switch Road merges with US-70 and travels on this two-lane road segment. Similarly, the segment between Henslee Drive and Greer Circle on SR 48/North Main Street (S8) carries traffic from the north of the county. This segment additionally has identified safety issues.

Project 15: This segment of the road runs north-south within the City of Charlotte between SR 47 and SR 49. Therefore, a decent volume of traffic travels along this segment, which creates a poor LOS. With the recent growth and future land use plan, this corridor needs to be widened to 3 - 4 lanes to efficiently handle the projected increased traffic loading and maintain adequate traffic operations.

Long Term Projects

Long-term projects are selected based on future land use plans and traffic operations analysis. For traffic operation, focus is given on the segments where a change from LOS C (existing) to LOS E/F (future 2043) is found. Growth rate and AADT are also considered in the selection process. Finally, traffic operations coupled with future land use development are used to recommend long term projects. Four types of recommendations are made: Roadway Widening, Roadway Geometry, Functional Classification Change and Proposed New Road.

Project L1: This segment is projected to have a future LOS of E/F degrading from LOS C. Future traffic growth rate varies between 3.5% to 5%. According to the future land use plan, SR 96 has both industrial and mixed-use development on the south side of the road. With the anticipated growth and future land use plan, this corridor needs to be widened to four lanes to efficiently handle the projected increased traffic loading and maintain adequate traffic operations from I-40 intersection to SR 47.

<u>Project L2:</u> This segment is projected to have a future LOS of E/F degrading from LOS C. Future traffic growth rate varies between 3.5% to 5%. According to the future land use plan, US 70 has mixed use development on both sides of the road. With the anticipated growth and future land use plan, this corridor needs to be widened to four lanes with a positive median barrier to efficiently handle the projected increased traffic loading and maintain adequate traffic operations from Pond Switch Road to the western county line.



Project L3: This segment is projected to have a future LOS of E/F degrading from LOS E. Future traffic growth rate varies between 2% to 3.5%. Traffic uses North Main Street to enter/exit City of Dickson from north. Upstream of this roadway segment is a four-lane highway. With the anticipated growth and future land use plan, this corridor from Greer Circle to Sylvia Road needs to be widened to five lanes to efficiently handle the projected increased traffic loading and maintain adequate traffic operations.

Project L4: This segment is projected to have a future LOS of E/F degrading from LOS C. Future traffic growth rate varies between 2% to 3.5%. Traffic uses SR 47 to enter/exit the City of Dickson from east. Upstream of this segment is a four-lane highway. With the anticipated growth and future land use plan, this corridor from East Railroad Street to SR 96 needs to be widened to 4 - 5 lanes to efficiently handle the projected increased traffic loading and maintain adequate traffic operations.

Project L5: This segment is projected to have a future LOS of E/F degrading from LOS C. Future traffic growth rate varies between 2% to 3.5%. Traffic uses Charles Walton Speight Highway/SR 47 to enter/exit the Town of White Bluff from the north. Upstream of this segment is a four-lane highway. With the anticipated growth and future land use plan, this corridor from Old Charlotte Road to Claylick Road needs to be widened to four lanes to efficiently handle the projected increased traffic loading and maintain adequate traffic operations.

Project L6: This segment of the road runs north-south between Broadway Street in the Town of White Bluff and SR 96 connecting people from White Bluff to I-40. With the proposed extension of SR 96 this segment of the road is expected to carry substantial future traffic volumes. There is currently residential development along both sides of this road with expectations of future development. With the anticipated growth and changes to the roadway connectivity, this corridor needs to be widened to 3 - 4 lanes with an access management strategy to efficiently handle the projected increased traffic loading and maintain adequate traffic operations from Broadway Street to SR 96.

Project L7: This segment connects Beasley Drive to Barbeque Road. Just upstream (north) of this segment there is a three-lane cross-section. According to the future land use plan, high density residential and light commercial development will be on both sides of the road. Widening this segment of Cowan Road to a 3 -4 typical section will help reduce traffic congestion on Beasley Drive.

<u>Project L8, L15, L18 & L19:</u> According to future land use plan, there is potential industrial and medium density mixed use development be built along the north side of I-40 starting at SR 46 going west to East Piney Road.

This proposed new road, <u>L8</u> - Extended Livestock Road will connect the new development area to SR 46 and I-40 interchange area.



<u>L18</u> - New Road between US-70 and East Piney Road and <u>L15</u> - New Road between Sylvia Road and US 70 will connect traffic coming from the north and west of the new development area.

<u>L19</u> - Proposed interchange of East Piney Road and I-40 to provide a direct connection to I-40, the new development area.

Project L9: Currently, Industrial Drive collects traffic from White Bluff Road/ E. Highway 70 and serves the residential development west of White Bluff Road. According to the future land use plan, there will be potential commercial development between Industrial Drive and Main Street/Park Street. This proposed new road extension will connect Industrial Drive and Park Street.

Project L10: According to future land use plan, industrial land uses are proposed north of the City of Dickson boundary around the intersection of North Hummingbird Lane and Jones Creek Road. To provide access to the potential development area, SR 96 is proposed to be extended from US-70 to SR 48.

<u>Project L11, L12 & L13:</u> All three of these segments are located in the southwest quadrant of the I-40 and I-840 interchange. With the proposed industrial land uses in the vicinity of the interchange, these three projects are to extend and improve Two Mile Road and Porter Road to provide adequate access to support the proposed industrial land use.

Project L14: This a TDOT interstate extension study/project to extend I-840 from the current termini at I-40 to a new terminus at SR 96.

<u>Project L16 & 17:</u> Based on the future land use plan and the anticipated traffic volume increases, projects <u>L16</u> & <u>L17</u> are proposed to provide better access on the eastern side of the City of Dickson between Marshall Stuart Drive and East College Street. It is anticipated these improvements would help support access to the proposed industrial land uses on the north side of the City near Hummingbird Lane.

DRAFProject Prioritization and Implementation

Prioritization

Implementation of transportation projects required justification for constructing the project and identification of funding sources. The projects identified in this Comprehensive Plan Recommendations Section will address safety, connectivity, and mobility. This section will present a process that identifies the issues addressed by the projects, creates a point system tied to data identifying the problems, and calculates a value based on the need for each project. This process, combined with the funding sources available, can be used for prioritization.

The first step in the prioritization process requires the County to determine a percentage of the total score that applies to each traffic issue based on the benefits expected from construction of the project. An example of the prioritization percentage structure is shown in the chart [Figure 35) using the goals of this comprehensive plan as well as ways to address measurable data factors [Figure 36]. The ranking values are based on stakeholder and public input where issues and concerns were identified. Each item addressed is given a point value based on a measurable variable.

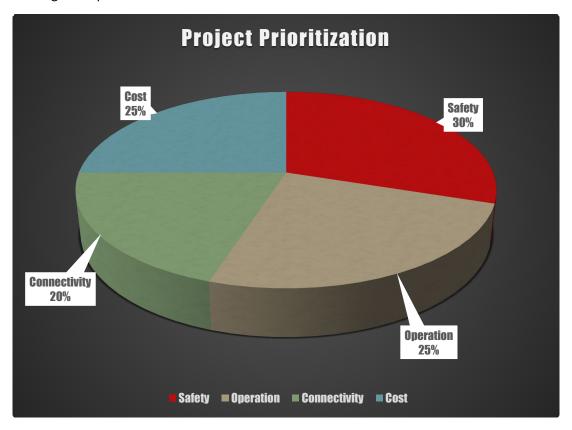


FIGURE 35: PROJECT PRIORITIZATION PERCENTAGE STRUCTURE



Does the project improve safety?

 Points are based on the number of crashes in a location for an established time frame, such as five years. In this example, more crashes equates to more points.

Will the project provide connectivity?

- Points are based on the FHWA roadway classification, assigning more points for higher classified roads.
- Assign points for projects located on state routes.





Does the project improve vehicular operation (mobility)?

- Assign points for projects that relieve delays on the system.
- Assign points based on the LOS so roadways with poor LOS will receive higher points.

FIGURE 36: EXAMPLES OF THE ISSUES DICKSON COUNTY CAN ADDRESS WITH MEASURABLE DATA DRIVEN FACTORS



Implementation

Identifying transportation projects in the Comprehensive Plan is only the first step in the project delivery process. Moving projects through the design and construction phases requires planning and coordination that begins once funding for the project is identified. For the purposes of this plan, as shown in Table 18, the possible funding sources were identified as federal and state options that usually require a local match. It is important to realize private funding through local developers can also serve as a funding source for some of these projects.

TABLE 18: POTENTIAL FUNDING SOURCES

| Fund Name | Program Description | Funding Ratio |
|---|---|--|
| National Highway Performance Program (NHPP) | Provides funding for construction, reconstruction, resurfacing, restoration, rehabilitation, preservation, or operational improvement of segments of the National Highway System. This includes Interstate highways and bridges on the NHS. Projects must support progress toward national goals for the condition and performance of the system. | 80% to 90% federal 10% to 20% nonfederal |
| State Surface Transportation Block Grant (S-STBG) | Provides funding for roads functionally classified as rural major collector and above. Also, funds bridge replacement and rehabilitation on non-federal aid routes. Eligible activities also include bicycle and pedestrian facilities, safety, highway-rail crossings, and environmental mitigation. | 80% federal 20% non-federal Some projects are eligible at 100% federal |
| Local Surface Transportation Block Grant (L-STBG) | Provides funding for small urban areas (5,000 to 50,000 persons) and urbanized areas (50,000 and greater in population) for projects on roads functionally classified as urban collectors or higher. Funds may also be used for bicycle/pedestrian projects or "flexed" for transit use. | 80% federal 20% non-federal Some projects are eligible at 100% federal. |
| Highway Safety Improvement Program (HSIP) | Provides funds to improve high hazard locations on eligible roadways, including highway-rail grade crossings. Projects are selected based on crash rate and crash frequency. | 90% to 100% federal 0% to 10% nonfederal |
| State Industrial Access (SIA) Program | This program does not typically require a local match, but it is limited to locations where improved road access will leverage a significant new industry location or expansion. TDOT works with the State Department of Economic & Community Development to identify locations as the need arises. | - |
| Local Roadway Funding | About \$230 million of the statewide gasoline tax revenue each year is distributed to cities and counties as the State Street-Aid fund. For cities, the funds are distributed based on population. Many local governments use these funds for roadway maintenance and operations, including expenses for paving, street lighting and signal operations. | - |



APPENDIX

- A. List of Tables and Figures
- B. Road Mileage Classification & Existing Traffic Volume Tables
- C. LOS Report & Tables
- D. Crash Data-Vehicular, Pedestrian & Bicycle
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- F. Public & Stakeholder Meeting Comments
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APPENDIX B:

TABLE 1: ROAD MILEAGE BY FUNCTIONAL CLASSIFICATION

| | Dicksor | n County | City of | Dickson | Town of Burns | | Town of White Bluff | | FHWA |
|--------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|----------------------|------------------------|----------------------------------|
| FUNC_CLASS | # of Miles | % of Total Miles | # of Miles | % of Total Miles | # of Miles | % of Total Miles | # of Miles | % of Total Miles | Guideline % of Total Miles |
| | | | | Rura | al | | | | |
| R / LOCAL | 612.7 | 55.9 | N/A | N/A | N/A | N/A | 27.1 | 71.7 | 62%-74% |
| R / MIN COL | 115.1 | 10.5 | N/A | N/A | N/A | N/A | 4.1 | 10.8 | 3%-15% |
| R / MAJ COL | 42.5 | 3.9 | N/A | N/A | N/A | N/A | 0.4 | 1.1 | 8%-19% |
| R / MIN ART | 70.0 | 6.4 | N/A | N/A | N/A | N/A | 6.2 | 16.4 | 2-6% |
| | | | | Urba | an | | | | |
| U / LOCAL | 178.1 | 16.3 | 101.8 | 68.4 | 11.4 | 57.3 | N/A | N/A | 66%-74% |
| U / MIN COL | 11.5 | 1.0 | 0.3 | 0.2 | 0.8 | 4.0 | N/A | N/A | 5%-13% |
| U / MAJ COL | 28.9 | 2.6 | 21.6 | 14.5 | 3.5 | 17.6 | N/A | N/A | 10%-17% |
| U / MIN ART | 22.7 | 2.1 | 11.3 | 7.6 | 4.2 | 21.1 | N/A | N/A | 3%-7% |
| U OTH PRIN | 14.8 | 1.3 | 13.9 | 9.3 | | | N/A | N/A | 2%-5% |
| ART | | | | | | | | | |
| Grand Total | 1096.3 | | 148.9 | | 19.9 | - | 37.8 | | |

Table 1 shows the percentage of roadway mileage for each functional classification. The percentage of road-miles that fall into each category is generally consistent with federal guidelines, indicating a fairly well distributed system.



| Route Number (Based on TDOT) | Route Name | BLM | ELM | AADT | Functional Classification |
|---------------------------------|--------------------------------------|-------|--------|--------|------------------------------|
| SR046 | SR 46 | 3.228 | 8.18 | 29,215 | U Principal Arterial |
| SR046 | Mathis Drive | 8.18 | 8.66 | 19,018 | U Principal Arterial |
| SR001 | US-70/ West College Street | 5.72 | 8.15 | 16,024 | Urban Minor Arterial |
| SR001 | East College Street | 10.18 | 11.8 | 15,748 | U Principal Arterial |
| SR001 | Henslee Drive | 8.15 | 9.79 | 14,369 | U Principal Arterial |
| SR046 | SR 46 | 0 | 3.228 | 13,161 | U Minor Arterial |
| 05684 | Beasley Drive | 0 | 1.727 | 13,154 | U Collector |
| SR235 | East College Street | 0 | 1.215 | 12,708 | U Minor Arterial |
| 04529 | Beasley Drive | 0.429 | 1.08 | 12,676 | U Collector |
| 03151 | West Walnut Street/ Beasley Drive | 0.69 | 2.04 | 11,323 | U Minor Arterial |
| SR001 | Henslee Drive | 9.79 | 10.18 | 10,441 | U Principal Arterial |
| SR048 | North Main Street/ SR 48 | 10.8 | 12.747 | 10,238 | U Principal Arterial |

It is evident from the AADT volume that many of the road segments with high AADT are located within the City of Dickson or near its perimeter. SR 46 carries the highest amount of traffic within Dickson County. Notably, this state route is connected to I-40 in the south where commuter-based traffic travels to/from Metropolitan Nashville. US 70, East/West College Street, and Henslee Drive also experience a higher volume of traffic travelling in the east-west direction within Dickson County. Similarly, SR 48/North Main Street and Highway 96 carries high traffic in the north-south and east-west directions, respectively. As identified, many of these roads are classified as urban arterials.

Most collector roads have lower traffic volumes (< 3,500 vehicles/day (vpd) except for Beasley Drive, Center Avenue, Yellow Creek Road, Sylvia Road, Cowan Road, and Weaver Drive. Beasley Drive, which is a bypass to Highway 46, has an AADT of more than 12,000 vpd.



LOS Report

TABLE 3: EXISTING LEVEL OF SERVICE: LOS E/F

| Route Number | Route Name | BLM | ELM | AADT | FUNC_CLASS | City |
|---------------------|--------------------|-------|-------|--------|----------------------|---------|
| 03151 | East Walnut Street | 0 | 0.69 | 6,693 | Urban Minor Arterial | Dickson |
| 03151 | West Walnut Street | 0.69 | 1.461 | 11,323 | Urban Minor Arterial | Dickson |
| 03151 | Beasley Drive | 1.461 | 2.04 | 11,323 | Urban Minor Arterial | Dickson |
| SR001 | US-70 | 5.72 | 6.464 | 16,024 | Urban Minor Arterial | |
| SR001 | US-70 | 6.464 | 6.649 | 16,024 | U Principal Arterial | |
| SR048 | North Main Street | 10.28 | 10.8 | 10,238 | U Principal Arterial | Dickson |

TABLE 4: EXISTING LEVEL OF SERVICE: LOS D

| Route Number | Route Name | BLM | ELM | AADT | FUNC_CLASS | City |
|--------------|-------------------|--------|--------|--------|----------------------|-------------|
| 05684 | Beasley Drive | 0 | 1.727 | 13,154 | Urban Collector | Dickson |
| SR001 | Broadway Street | 17.179 | 21.847 | 7,252 | Rural Arterial | White Bluff |
| SR046 | SR 46 | 0 | 0.44 | 13,161 | Urban Minor Arterial | |
| SR046 | SR 46 | 0.44 | 1.617 | 13,161 | Urban Minor Arterial | |
| SR046 | SR 46 | 1.617 | 3.173 | 13,161 | Urban Minor Arterial | |
| SR046 | Yellow Creek Road | 8.66 | 9.225 | 8,222 | U Principal Arterial | Dickson |
| SR047 | SR 47 | 0.251 | 1.872 | 4,489 | Urban Minor Arterial | Dickson |
| SR048 | Center Avenue | 7.379 | 8.534 | 8,257 | Urban Collector | Dickson |
| SR048 | North Main Street | 10.8 | 11.18 | 10,238 | U Principal Arterial | Dickson |
| SR048 | SR 48 | 11.18 | 11.21 | 10,238 | U Principal Arterial | Dickson |
| SR048 | SR 48 | 11.21 | 11.533 | 10,238 | U Principal Arterial | |
| SR048 | SR 48 | 11.533 | 11.864 | 10,238 | U Principal Arterial | |
| SR048 | SR 48 | 11.864 | 12.747 | 10,238 | Urban Minor Arterial | |
| SR048 | SR 48 | 15.96 | 19.52 | 7,264 | Rural Arterial | Charlotte |
| SR048 | Center Avenue | 0 | 0.25 | 5,891 | Urban Minor Arterial | Dickson |
| SR048 | Church Street | 0.25 | 0.35 | 5,891 | Urban Minor Arterial | Dickson |

Based on the segment analysis, much of the corridor operating at LOS D and below lies within the boundary of the City of Dickson or near its perimeter. Only Broadway Street within the Town of White Bluff and SR 48 within the City of Charlotte operate at LOS D. It is anticipated that traffic travelling along US-70 from the west utilizes East/West Walnut and Beasley Drive to merge onto SR 46 and finally I-40 to commute to/from Metropolitan Nashville.

Traffic travelling to and from the east to the City of Dickson is anticipated to travel along US-70 (East), East College Street and Henslee Drive. Traffic to and from the north takes SR 48 and North Main Street to the City of Dickson.



| Route Num | Route Name | BLM | ELM | Existing AADT | Growth Rate | 2043 AADT | 2043 LOS | Existing LOS | City |
|--------------|-----------------------|--------|--------|------------------|----------------|--------------|-------------|-----------------|-------------|
| 03151 | East Walnut Street | 0 | 0.69 | 6693 | 2.00 | 9,906 | Е | Е | Dickson |
| 03151 | West Walnut Street | 0.69 | 1.461 | 11323 | 5.77 | 26,990 | F | E | Dickson |
| 03151 | Beasley Drive | 1.461 | 2.04 | 11323 | 5.77 | 26,990 | F | E | Dickson |
| 05684 | Beasley Drive | 0 | 1.727 | 13154 | 5.00 | 28,939 | F | D | Dickson |
| SR001 | US-70 | 0 | 5.72 | 9439 | 3.00 | 16,235 | Е | С | |
| SR001 | US-70 | 5.72 | 6.464 | 16024 | 5.00 | 35,253 | F | Е | |
| SR001 | US-70 | 6.464 | 6.649 | 16024 | 5.00 | 35,253 | F | E | |
| SR001 | Broadway Street | 17.179 | 21.847 | 7252 | 2.50 | 11,603 | E | D | White Bluff |
| SR046 | SR 46 | 0 | 0.44 | 13161 | 2.50 | 21,058 | E | D | |
| SR046 | SR 46 | 0.44 | 1.617 | 13161 | 2.50 | 21,058 | E | D | |
| SR046 | SR 46 | 1.617 | 3.173 | 13161 | 2.50 | 21,058 | E | D | |
| SR046 | SR 46 | 3.228 | 7.54 | 29215 | 4.00 | 57,261 | E | С | Dickson |
| SR046 | SR 46 | 7.54 | 7.74 | 29215 | 4.00 | 57,261 | E | С | Dickson |
| SR046 | SR 46 | 7.74 | 7.983 | 29215 | 4.00 | 57,261 | E | С | Dickson |
| SR046 | SR 46 | 7.983 | 8.18 | 27325 | 2.00 | 40,441 | E | D | Dickson |
| SR046 | Mathis Drive | 8.18 | 8.66 | 19018 | 3.00 | 32,711 | E | В | Dickson |
| SR046 | Yellow Creek Road | 8.66 | 9.225 | 8222 | 3.00 | 14,142 | Е | D | Dickson |
| SR046 | Yellow Creek Road | 9.225 | 9.67 | 8222 | 3.00 | 14,142 | E | С | Dickson |
| SR046 | Yellow Creek Road | 9.67 | 11.67 | 8222 | 3.50 | 15,128 | Е | С | |
| SR047 | SR 47 | 0.251 | 1.872 | 4489 | 3.00 | 7,721 | E | D | Dickson |
| SR047 | SR 47 | 1.872 | 3.49 | 4489 | 3.00 | 7,721 | E | С | Burns |
| SR047 | Charles Walton | 10.19 | 11.574 | 7485 | 2.00 | 11,078 | E | С | White Bluff |
| SR047 | Speight Highway SR 47 | 11.574 | 11.637 | 7485 | 2.00 | 11,078 | Е | С | |
| SR047 | SR 47 | 11.637 | 11.803 | 7485 | 2.00 | 11,078 | E | С | White Bluff |
| SR047 | SR 47 | 11.803 | 12.46 | 7485 | 2.00 | 11,078 | E | С | |
| SR047 | Center Avenue | 7.379 | 8.534 | 8257 | 4.00 | 16,184 | E | D | Dickson |
| SR048 | South Main Street | 9.235 | 9.58 | 3724 | 2.00 | 5,512 | E | С | Dickson |
| SR048 | North Main Street | 10.28 | 10.8 | 10238 | 3.50 | 18,838 | E | E | Dickson |
| SR048 | North Main Street | 10.8 | 11.18 | 10238 | 3.50 | 18,838 | E | D | Dickson |
| SR048 | SR 48 | 11.18 | 11.21 | 10238 | 3.50 | 18,838 | E | D | Dickson |
| SR048 | SR 48 | 11.21 | 11.533 | 10238 | 3.50 | 18,838 | E | D | |
| SR048 | SR 48 | 11.533 | 11.864 | 10238 | 3.50 | 18,838 | E | D | |
| SR048 | SR 48 | 11.864 | 12.747 | 10238 | 3.50 | 18,838 | E | D | |
| SR048 | SR 48 | 15.96 | 19.52 | 7264 | 1.50 | 9,879 | E | D | Charlotte |
| SR048 | Center Avenue | 0 | 0.25 | 5891 | 3.50 | 10,839 | E | D | Dickson |
| SR048 | Church Street | 0.25 | 0.35 | 5891 | 3.50 | 10,839 | E | D | Dickson |
| SR096 | SR 96 | 1.482 | 4.83 | 8918 | 3.50 | 16,409 | E | С | Burns |
| SR096 | SR 96 | 4.83 | 5.124 | 8918 | 3.50 | 16,409 | E | С | Burns |
| SR096 | SR 96 | 5.124 | 5.641 | 8918 | 3.50 | 16,409 | E | С | Burns |
| SR096 | SR 96 | 5.641 | 7.901 | 8918 | 3.50 | 16,409 | E | С | |
| SR096 | SR 96 | 7.901 | 10.21 | 9189 | 2.50 | 14,702 | E | С | |

| | | HCS7 Two | o-Lan | e Highv | way Re | eport | |
|-----------------------------------|---|----------------------|-------------------|-------------------------------------|---------------|--------------------|--------------------------------|
| Pro | oject Information | | _ | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Analysis Year | | 2022 |
| | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | Sr235_W. Colleg | e St | Units | | | U.S. Customary |
| | | | Seg | ment 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ined | Length, f | ft | | 4514 |
| | e Width, ft | 12 | | | r Width, f | t | 2 |
| | ed Limit, mi/h | 30 | | | | sity, pts/mi | 45.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 259 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| | k Hour Factor | 0.92 | | Total Tru | | | 4.00 |
| | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.15 |
| | ermediate Results | | | | , , | | |
| Sea | ment Vertical Class | 2 | Free-Flow Spee | | w Speed. | mi/h | 21.3 |
| | ed Slope Coefficient | 4.91432 | 4.91432 | | ower Coe | | 0.41622 |
| - | Slope Coefficient | -1.45227 | | | r Coefficie | | 0.56473 |
| | assing Lane Effective Length? | No | | | gment De | nsity, veh/mi/ln | 6.7 |
| %lm | nproved % Followers | 0.0 | % Improved A | | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | | | | | | <u>'</u> |
| # | Segment Type | Length, ft | Ra | adius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 4514 | - | | | - | 19.0 |
| Vel | hicle Results | | | | | | ' |
| Ave | rage Speed, mi/h | 19.0 | | Percent I | Followers, | . % | 49.2 |
| | ment Travel Time, minutes | 2.70 | | | | followers/mi/ln | 6.7 |
| _ | icle LOS | С | | | | | |
| Bic | cycle Results | | | | | | |
| | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 259 | | | Pavement Conditio | | | 14 | |
| Bicycle LOS Score 4.40 | | | - | Bicycle Effective Speed Factor 3.39 | | | |
| Bicy | rcle LOS | D | | - | | | |
| Fac | cility Results | | | | | | • |
| | - | er Density, follower | s/mi/ln | | | LC | os |
| | 1 | 6.7 | | | | (| |
| Copyr | right © 2023 University of Florida, All Right | | ICC SIM Two | Lane Version 7 | 706 | | Generated: 02/01/2023 14:09:06 |

| | | | HCS7 Two-La | ane H | lighv | vay Re | eport | |
|-----------------------------------|---------------------|--------------------------------|--------------------------------|--------------------|-------------------------|------------------|--------------------|--------------------------------|
| Pro | oject Inform | nation | | _ | _ | | | |
| Ana | lyst | | TCG | D | Date | | | 6/20/2022 |
| Age | ncy | | TCG | A | Analysis Year | | | 2022 |
| Juris | sdiction | | Dickson County | Ti | ime Ana | llyzed | | Existing |
| Proj | ect Description | | SR235_Sylvia Rd | U | Inits | | | U.S. Customary |
| | | | Se | egme | nt 1 | | | |
| Vel | hicle Inputs | <u> </u> | | | | | | |
| Segi | ment Type | | Passing Constrained | Le | ength, f | t | | 13739 |
| | e Width, ft | | 11 | | | Width, ft | | 4 |
| Spe | ed Limit, mi/h | | 55 | A | ccess Po | oint Dens | ity, pts/mi | 14.0 |
| De | mand and (| Capacity | ' | <u> </u> | | | | |
| Dire | ectional Demand | I Flow Rate, veh/h | 360 | 0 | pposing | Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | To | otal Truc | ks, % | | 6.00 |
| Segi | ment Capacity, v | veh/h | | | Demand/Capacity (D/C) | | | 0.21 |
| Int | ermediate | Results | | | | | | |
| Segi | ment Vertical Cl | ass | 2 | Free-Flow Speed, | | v Speed, | mi/h | 56.5 |
| | ed Slope Coeffic | | 3.15434 | | Speed Power Coefficient | | | 0.47394 |
| PF S | Slope Coefficient | i | -1.44729 | | PF Power Coefficient | | | 0.69057 |
| In Pa | assing Lane Effe | ctive Length? | No | Total Segment Dens | | nsity, veh/mi/ln | 3.4 | |
| %lm | nproved % Follo | wers | 0.0 | % | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment [| Data | • | | | | | |
| # | Segment Type | e | Length, ft | Radius | s, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 13739 | - | | | - | 54.8 |
| Vel | hicle Result | s | <u>'</u> | | | | | |
| Avei | rage Speed, mi/ | h | 54.8 | Pe | ercent F | ollowers, | % | 51.1 |
| | ment Travel Tim | | 2.85 | Fo | ollower | Density, 1 | followers/mi/ln | 3.4 |
| Vehi | icle LOS | | В | | | | | |
| Bic | ycle Result | s | <u> </u> | | | | | |
| Perc | ent Occupied P | arking | 0 | Pa | avemen | t Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 360 | | Bi | Bicycle Effective Width, ft | | /idth, ft | 19 | | |
| Bicycle LOS Score 4.90 | | Bi | Bicycle Effective Speed Factor | | peed Factor | 4.79 | | |
| Bicy | cle LOS | | E | | | | | |
| Fac | ility Result | s | | | | | | |
| | т | Follower | Density, followers/mi/l | ln | LOS | | | S |
| | 1 | | 3.4 | | | | В | |
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| Agency Ti Jurisdiction D Project Description S | TCG TCG Dickson County | Date | 9/28/2022 | | | | | |
|--|---------------------------------------|--|----------------|--|--|--|--|--|
| Agency To Durisdiction Droject Description S | rcg | | 9/28/2022 | | | | | |
| Jurisdiction Droject Description S | | | 3, 20, 2022 | | | | | |
| Project Description S | Dickson County | Analysis Year | 2022 | | | | | |
| | | Time Analyzed | Existing | | | | | |
| | GR235_E. College Street Multilane) | Units | U.S. Customary | | | | | |
| Direction 1 Geometric Data | | | | | | | | |
| Direction 1 North | | | | | | | | |
| Number of Lanes (N), In 2 | 2 | Terrain Type | Rolling | | | | | |
| Segment Length (L), ft - | | Percent Grade, % | - | | | | | |
| Measured or Base Free-Flow Speed B | Base | Grade Length, mi | - | | | | | |
| Base Free-Flow Speed (BFFS), mi/h 4 | 17.0 | Access Point Density, pts/mi | 45.0 | | | | | |
| Lane Width, ft 1 | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | | |
| Median Type T | TWLTL . | Total Lateral Clearance (TLC), ft | 8 | | | | | |
| Free-Flow Speed (FFS), mi/h | Flow Speed (FFS), mi/h 36.1 | | | | | | | |
| Direction 1 Adjustment Factors | | | | | | | | |
| Driver Population A | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | | |
| Driver Population SAF 1 | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | | |
| Driver Population CAF 1 | 1.000 | | | | | | | |
| Direction 1 Demand and Capac | ity | | | | | | | |
| Volume(V) veh/h 7 | 743 | Heavy Vehicle Adjustment Factor (fHV) | 0.926 | | | | | |
| Peak Hour Factor 0 |).92 | Flow Rate (V _p), pc/h/ln | 436 | | | | | |
| Total Trucks, % 4 | 1.00 | Capacity (c), pc/h/ln | 1900 | | | | | |
| Single-Unit Trucks (SUT), % | | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | | |
| Tractor-Trailers (TT), % | | Volume-to-Capacity Ratio (v/c) | 0.23 | | | | | |
| Direction 1 Speed and Density | | | | | | | | |
| Lane Width Adjustment (fLW) 0 | 0.0 | Average Speed (S), mi/h | 36.1 | | | | | |
| Total Lateral Clearance Adj. (fLLC) 0 |).9 | Density (D), pc/mi/ln | 12.1 | | | | | |
| Median Type Adjustment (fM) 0 | 0.0 | Level of Service (LOS) | В | | | | | |
| Access Point Density Adjustment (fA) 1 | 10.0 | | | | | | | |
| Direction 1 Bicycle LOS | | | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h 4 | 104 | Effective Speed Factor (St) 4.17 | | | | | | |
| | 14 | Bicyle LOS Score (BLOS) 4.93 | | | | | | |
| | 14 | Bicycle Level of Service (LOS) | E | | | | | |

| Direction 2 Geometric Data | | | | | | | | |
|---------------------------------------|--------------|--|---------|--|--|--|--|--|
| Direction 2 | Opposite | | | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | | |
| Base Free-Flow Speed (BFFS), mi/h | 47.0 | Access Point Density, pts/mi | 45.0 | | | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 | | | | | |
| Free-Flow Speed (FFS), mi/h | 36.1 | | | | | | | |
| Direction 2 Adjustment Fact | ors | | | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | | |
| Driver Population CAF | 1.000 | | | | | | | |
| Direction 2 Demand and Ca | pacity | | | | | | | |
| Volume(V) veh/h | 400 | Heavy Vehicle Adjustment Factor (fhv) | 0.926 | | | | | |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 235 | | | | | |
| Total Trucks, % | 4.00 | Capacity (c), pc/h/ln | 1900 | | | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.12 | | | | | |
| Direction 2 Speed and Dens | ity | | | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 36.1 | | | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 6.5 | | | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А | | | | | |
| Access Point Density Adjustment (fA) | 10.0 | | | | | | | |
| Direction 2 Bicycle LOS | · | <u> </u> | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 404 | Effective Speed Factor (St) | 4.17 | | | | | |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 4.93 | | | | | |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | E | | | | | |
| | | | N 1 700 | | | | | |

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| | HCS7 Two-Lane Highway Report | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------------|---------------------|----------------------------------|-----------------------------------|----------------------------------|-------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis Year | | | 2022 |
| Juris | sdiction | | Dickson County | | Time Analyzed | | | Existing |
| | | | SR096_State Hwy 96 | | | | | U.S. Customary |
| | Segment 1 | | | | | | | |
| Vehicle Inputs | | | | | | | | |
| Segi | ment Type | | Passing Constrained | T | Length, ft | | | 17677 |
| Lane | e Width, ft | | 12 | : | Shoulder | · Width, ft | t | 6 |
| Spe | ed Limit, mi/h | | 50 | | Access P | oint Dens | ity, pts/mi | 18.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 693 | 593 Opposi | | Opposing Demand Flow Rate, veh/h | | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 4.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.41 |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class | | 2 | | Free-Flow Speed, mi/h | | mi/h | 52.2 | |
| Speed Slope Coefficient | | 3.11550 | | Speed Power Coefficient | | | 0.44925 | |
| | | -1.53547 | | PF Power Coefficient | | | 0.66134 | |
| In Pa | In Passing Lane Effective Length? | | | Total Segment Density, veh/mi/ln | | | 9.8 | |
| %lm | 6Improved % Followers 0.0 | | | % Improved Avg Speed | | | 0.0 | |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 17677 | 1- | | | - | 49.7 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 49.7 | | Percent Followers, % | | | 70.0 |
| Segi | ment Travel Ti | me, minutes | 4.04 | | Follower Density, followers/mi/ln | | | 9.8 |
| Vehicle LOS | | С | | | | | | |
| Bic | ycle Resul | ts | <u>'</u> | | | | | |
| Percent Occupied Parking 0 | | | | Pavemen | 4 | | | |
| Flow Rate Outside Lane, veh/h | | 693 | | Bicycle Effective Width, ft | | | 24 | |
| Bicycle LOS Score | | 3.49 | | Bicycle Effective Speed Factor | | | 4.62 | |
| Bicycle LOS C | | С | | | | | | |
| Facility Results | | | | | | | | |
| | Т | Follower Density, followers/mi/ln LOS | | | | | S | |
| | 1 | 9.8 C | | | | | | |
| | | varsity of Florida, All Diabts I | | | o Varsian 7 | | | Gonorated: 02/01/2023 14:07:54 |

| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | |
|-----------------------------------|--|-----------------------------|----------------------|-----------------|-----------------------------------|-------------------|--------------------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ncy | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | oject Description SR096_State Hwy 96 Units | | | | U.S. Customary | | |
| | | | Seg | ment 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ined | Length, f | ft | | 3326 |
| | e Width, ft | 12 | | | r Width, f | | 6 |
| Spe | ed Limit, mi/h | 55 | | Access P | oint Dens | ity, pts/mi | 13.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 440 | 440 Opposi | | Dpposing Demand Flow Rate, veh/h | | - |
| Peal | k Hour Factor | 0.92 | | | cks, % | | 4.00 |
| | | 1700 | 1700 | | /Capacity | (D/C) | 0.26 |
| Int | ermediate Results | | | <u> </u> | | | |
| Segment Vertical Class 2 | | 2 | 2 | | Free-Flow Speed, mi/h | | 59.1 |
| Speed Slope Coefficient | | 3.44974 | | Speed Po | ower Coe | ficient | 0.44196 |
| PF Slope Coefficient | | -1.39144 | | PF Powe | r Coefficie | ent | 0.73692 |
| In Passing Lane Effective Length? | | No | | Total Seg | gment De | nsity, veh/mi/ln | 4.1 |
| %Improved % Followers 0.0 | | | % Improved Avg Speed | | 0.0 | | |
| Su | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Ra | adius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 3326 | - | | | - | 56.9 |
| Vel | hicle Results | | | | | | • |
| Ave | rage Speed, mi/h | 56.9 | 5.9 Percent Follo | | ollowers, % | | 53.2 |
| | ment Travel Time, minutes | 0.66 | 0.66 | | Follower Density, followers/mi/ln | | 4.1 |
| Veh | icle LOS | С | С | | | | |
| Bic | cycle Results | | | <u> </u> | | | _ |
| Percent Occupied Parking 0 | | Pavement Condition Rating 4 | | | | | |
| Flow Rate Outside Lane, veh/h | | 440 | | Bicycle E | ffective W | /idth, ft | 24 |
| Bicycle LOS Score | | 3.33 | | Bicycle E | ffective S | peed Factor | 4.79 |
| Bicycle LOS | | С | | | | | |
| Fac | cility Results | | | | | | • |
| | T Follower Density, followers/mi/ln | | | | LOS | | |
| | 1 4.1 | | | | С | | |
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| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|---------------------|-----------------|---------------------------------|-------------------------|----------|-------------------------------------|----------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | 1 | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | - | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR049_Vanleer Hwy | | Units | | | U.S. Customary |
| | | | Se | egmo | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | ı | Length, f | t | | 3538 |
| Lane Width, ft | | 11 | 9 | Shoulder | · Width, ft | t | 2 | |
| Spe | ed Limit, mi/h | | 40 | , | Access P | oint Dens | ity, pts/mi | 30.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 116 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | - | Total Tru | cks, % | | 6.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.07 |
| Int | ermediate | Results | • | | | | | |
| Segi | ment Vertical (| Class | 2 | ı | Free-Flov | w Speed, | mi/h | 34.5 |
| | ed Slope Coef | | 3.84373 | | | ower Coet | | 0.41622 |
| PF S | Slope Coefficie | nt | -1.51347 | ı | PF Power | Coefficie | ent | 0.64977 |
| In Pa | assing Lane Ef | fective Length? | No | - | Total Seg | ment De | nsity, veh/mi/ln | 1.1 |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 3538 | - | | | - | 33.8 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 33.8 | ı | Percent F | - ollowers, | . % | 31.2 |
| Segi | ment Travel Ti | me, minutes | 1.19 | ı | Follower Density, followers/mi/ln | | | 1.1 |
| Vehicle LOS A | | А | | | | | | |
| Bicycle Results | | | | | | | | |
| Perc | ent Occupied | Parking | 0 | ı | Pavemen | ıt Conditi | on Rating | 4 |
| Flow | v Rate Outside | Lane, veh/h | 116 | E | Bicycle E | ffective W | /idth, ft | 19 |
| Bicy | rcle LOS Score | | 4.00 | E | Bicycle Effective Speed Factor 4.17 | | | 4.17 |
| Bicycle LOS D | | | | | | | | |
| Fac | ility Resul | ts | | , | | | | |
| | Т | Follower | Density, followers/mi/l | In | | | LO | S |
| | 1 | | 1.1 | | | | A | |
| | | orcity of Florida, All Diabte I | | | n Vorsion 7 | | | Ganaratad: 02/01/2023 14:04:08 |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | |
|-----------------------------------|---------------------------------|-----------------------------------|-----------|-----------|-------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ncy | TCG | TCG | | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | ect Description | SR049_Spring St/ Hwy 49/Hwy 49 | /State | Units | | | U.S. Customary | |
| | | | Segment 1 | | | | | |
| Vel | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrair | ned | Length, | ft | | 10945 | |
| Lane | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 | |
| Spe | ed Limit, mi/h | 40 | | Access P | oint Dens | sity, pts/mi | 20.0 | |
| De | mand and Capacity | | | | | | <u>'</u> | |
| Dire | ectional Demand Flow Rate, veh, | /h 212 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 5.00 | |
| Seg | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.12 | |
| Int | ermediate Results | | | | | | <u>'</u> | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 36.4 | |
| Spe | ed Slope Coefficient | 3.68733 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.50359 | | PF Powe | r Coefficie | ent | 0.63721 | |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 2.6 | |
| %lm | nproved % Followers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 | |
| Su | bsegment Data | · | | • | | | · | |
| # | Segment Type | Length, ft | Rac | lius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 10945 | - | | | - | 35.0 | |
| Vel | hicle Results | | | | | | | |
| Ave | rage Speed, mi/h | 35.0 | | Percent | Followers, | , % | 42.9 | |
| Seg | ment Travel Time, minutes | 3.56 | | Follower | Density, | followers/mi/ln | 2.6 | |
| Veh | icle LOS | В | | | | | | |
| Bic | cycle Results | <u> </u> | | <u>'</u> | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 212 | | 212 | | | ffective W | | 12 | |
| Bicy | rcle LOS Score | 5.12 | | - | | peed Factor | 4.17 | |
| | rcle LOS | E | | | | | | |
| Fac | cility Results | | | | | | | |
| | - | ower Density, followers | s/mi/ln | | | LC | os | |
| | 1 | 2.6 | | | B B | | | |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | |
|---------------------|-------------------|----------------------------------|-------------------------|-----------|--------------------------------|--------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | llyst | | TCG | Г | Date | | | 6/20/2022 |
| Age | ency | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ject Descriptio | n | SR049_Broad Street Un | | Units | | | U.S. Customary |
| | | | Se | egme | ent 1 | | | |
| Ve | hicle Input | ts | | | | | | |
| Seg | ment Type | | Passing Constrained | l | Length, f | t | | 15518 |
| Lane Width, ft | | 10 | 9 | Shoulder | r Width, ft | i | 2 | |
| Spe | ed Limit, mi/h | | 30 | A | Access P | oint Dens | ity, pts/mi | 20.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 197 | (| Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | | 0.92 | 7 | Total Tru | cks, % | | 6.00 |
| Seg | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.12 |
| Int | ermediate | Results | | | | | | |
| Seg | ment Vertical (| Class | 2 | F | Free-Flov | w Speed, | mi/h | 25.0 |
| Spe | ed Slope Coeff | ficient | 4.61228 | 9 | Speed Po | ower Coef | fficient | 0.41622 |
| PF S | Slope Coefficie | nt | -1.59015 | F | PF Powe | r Coefficie | ent | 0.53801 |
| In P | assing Lane Eff | fective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 4.1 |
| %lm | nproved % Foll | owers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment | Data | | | | | | |
| # | Segment Typ | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 15518 | - | | | - | 23.3 |
| Ve | hicle Resul | lts | | | | | | |
| Ave | rage Speed, m | i/h | 23.3 | F | Percent F | -ollowers, | % | 48.5 |
| Seg | ment Travel Ti | me, minutes | 7.58 | F | Follower | Density, 1 | followers/mi/ln | 4.1 |
| Veh | icle LOS | | В | | | | | |
| Bio | ycle Resul | ts | | | | | | |
| Perd | cent Occupied | Parking | 0 | F | Pavemer | nt Condition | on Rating | 4 |
| Flov | v Rate Outside | Lane, veh/h | 197 | E | Bicycle Effective Width, ft | | | 12 |
| Bicy | cle LOS Score | | 4.94 | E | Bicycle Effective Speed Factor | | | 3.39 |
| Bicycle LOS E | | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | LOS | | |
| | 1 | | 4.1 | | | | В | |
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| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | | | |
|-------|--|-----------------------|----------------|-----------|-------------|--------------------|---------------------|--|--|
| Pro | oject Information | | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | | |
| Age | • | TCG | | Analysis | Year | | 2022 | | |
| | sdiction | Dickson County | Dickson County | | alyzed | | Existing | | |
| Proj | ect Description | SR048_State Hwy | y 48 | Units | | | U.S. Customary | | |
| | | | Seg | ment 1 | | | | | |
| Vel | hicle Inputs | | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, f | ft | | 18797 | | |
| | e Width, ft | 12 | | _ | r Width, f | t | 3 | | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 25.0 | | |
| De | mand and Capacity | | | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 462 | | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 5.00 | | |
| Seg | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.27 | | |
| Int | ermediate Results | | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flov | w Speed, | mi/h | 25.7 | | |
| Spe | ed Slope Coefficient | 4.55701 | | Speed Po | ower Coe | fficient | 0.41622 | | |
| PF S | Slope Coefficient | -1.60383 | | PF Powe | r Coefficie | ent | 0.53980 | | |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 13.3 | | |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 | | |
| Su | bsegment Data | | | | | | | | |
| # | Segment Type | Length, ft | Ra | dius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | 18797 | - | | | - | 22.7 | | |
| Vel | hicle Results | | | | | | • | | |
| Ave | rage Speed, mi/h | 22.7 | | Percent I | Followers, | % | 65.3 | | |
| | ment Travel Time, minutes | 9.41 | | Follower | Density, | followers/mi/ln | 13.3 | | |
| Veh | icle LOS | D | | | | | | | |
| Bic | cycle Results | | | | | | | | |
| Perc | ent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | | |
| Flov | v Rate Outside Lane, veh/h | 462 | | Bicycle E | ffective W | /idth, ft | 15 | | |
| Bicy | rcle LOS Score | 4.75 | | Bicycle E | ffective S | peed Factor | 3.39 | | |
| Bicy | rcle LOS | E | | | | | | | |
| Fac | cility Results | | | | | | | | |
| | T Follow | er Density, followers | s/mi/ln | | LOS | | | | |
| | 1 | 13.3 | | | | D | D | | |
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| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|---------------------|-----------------|---------------------------------|------------------------|----------|-------------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis Year | | | 2022 |
| Jurisdiction | | Dickson County | | Time Ana | alyzed | | Existing | |
| Proj | ect Description | n | SR048_State Hwy 48 | | Units | | | U.S. Customary |
| | | | S | egn | nent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 16917 |
| Lane | e Width, ft | | 12 | | Shoulder | r Width, ft | t | 3 |
| Spe | ed Limit, mi/h | | 55 | | Access P | oint Dens | ity, pts/mi | 20.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 462 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 5.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.27 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 2 | | Free-Flov | w Speed, | mi/h | 55.0 |
| Spe | ed Slope Coef | ficient | 3.11550 | | Speed Po | ower Coef | fficient | 0.46974 |
| PF S | Slope Coefficie | nt | -1.51200 | | PF Power | r Coefficie | ent | 0.66948 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 5.2 |
| %lm | nproved % Foll | owers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | | | • | | | |
| # | Segment Ty | pe | Length, ft | Rad | lius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 16917 | - | - | | - | 53.0 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 53.0 | | Percent F | -ollowers, | . % | 59.4 |
| Segi | ment Travel Ti | me, minutes | 3.62 | | Follower | Density, | followers/mi/ln | 5.2 |
| Vehicle LOS C | | С | | | 2 2 371 -22 2 27 1 | | | |
| Bic | ycle Resul | ts | <u> </u> | | | | | |
| Perc | ent Occupied | Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow | v Rate Outside | Lane, veh/h | 462 | | Bicycle Effective Width, ft | | | 15 |
| Bicy | rcle LOS Score | | 5.40 | | Bicycle Effective Speed Factor 4.79 | | | 4.79 |
| Bicycle LOS E | | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/ | /In | | | LO | S |
| | 1 | | 5.2 | | | | C | |
| _ | | orsity of Florida, All Pights I | | | no Varsian 7 | | | Ganaratad: 02/01/2023 13:50:13 |

| | | HCS7 Two | o-Lane | e Highv | way Re | eport | | | |
|-------------------|--|-----------------------|---------|-----------|-------------|--------------------|---------------------|--|--|
| Pro | oject Information | | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | | |
| Age | ency | TCG | | Analysis | Year | | 2022 | | |
| | sdiction | Dickson County | 1 1 | | alyzed | | Existing | | |
| Proj | ect Description | SR048_State Hwy | y 48 | Units | | | U.S. Customary | | |
| | | | Seg | ment 1 | | | | | |
| Vel | hicle Inputs | | | | | | | | |
| Seg | ment Type | Passing Constrai | ned | Length, f | ft | | 38042 | | |
| | e Width, ft | 11 | | _ | r Width, f | t | 2 | | |
| Speed Limit, mi/h | | 45 | | | | sity, pts/mi | 24.0 | | |
| De | mand and Capacity | | | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 218 | | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| | k Hour Factor | 0.92 | | Total Tru | | | 5.00 | | |
| | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.13 | | |
| | ermediate Results | | | | , , | | | | |
| Sea | ment Vertical Class | 2 | | Free-Flov | w Speed, | mi/h | 41.7 | | |
| | ed Slope Coefficient | 3.25880 | | | ower Coe | | 0.41622 | | |
| - | Slope Coefficient | -1.59899 | | | r Coefficie | | 0.62700 | | |
| | assing Lane Effective Length? | No | | Total Sec | gment De | nsity, veh/mi/ln | 2.5 | | |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 | | |
| Su | bsegment Data | | | | | | | | |
| # | Segment Type | Length, ft | Rá | adius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | 38042 | - | | | - | 40.4 | | |
| Vel | hicle Results | | | | | | 1 | | |
| Ave | rage Speed, mi/h | 40.4 | | Percent I | Followers, | . % | 46.0 | | |
| | ment Travel Time, minutes | 10.70 | | | | followers/mi/ln | 2.5 | | |
| | icle LOS | А | | | | | | | |
| Bic | cycle Results | | | | | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | | |
| | v Rate Outside Lane, veh/h | 218 | | | ffective W | | 13 | | |
| Bicy | rcle LOS Score | 5.13 | | Bicycle E | ffective S | peed Factor | 4.42 | | |
| Bicy | rcle LOS | E | | | | | | | |
| Fac | cility Results | | | <u> </u> | | | • | | |
| | T Follow | er Density, followers | s/mi/ln | | | LC | DS . | | |
| | 1 | 2.5 | | | | Δ | | | |
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| | | | HCS7 Tw | o-Lan | e Highv | vay Re | eport | |
|--|-----------------|---------------------|------------------|----------|---------------|-------------|--------------------|---------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ency | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Descriptio | n | SR048_S. Main | Street | Units | | | U.S. Customary |
| | | | <u>'</u> | Seg | ment 1 | | | |
| Vel | hicle Inpu | ts | | | | | | |
| Seg | ment Type | | Passing Constra | ained | Length, 1 | ft | | 1822 |
| | e Width, ft | | 10 | | Shoulde | r Width, f | t | 6 |
| Speed Limit, mi/h | | 25 | | Access P | oint Dens | ity, pts/mi | 45.0 | |
| De | mand and | Capacity | <u>'</u> | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 251 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 4.00 |
| Seg | ment Capacity | v, veh/h | 1700 | | Demand | /Capacity | (D/C) | 0.15 |
| Int | ermediate | Results | • | | | | | |
| Seg | ment Vertical | Class | 2 | | Free-Flo | w Speed, | mi/h | 17.2 |
| | ed Slope Coef | | 5.24601 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficie | ent | -1.51651 | | PF Powe | r Coefficie | ent | 0.51423 |
| In P | assing Lane Ef | fective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 8.9 |
| %lm | nproved % Fol | lowers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment | Data | • | | · | | | |
| # | Segment Ty | pe | Length, ft | R | ladius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 1822 | - | | | - | 14.8 |
| Vel | hicle Resu | lts | | | | | | |
| Ave | rage Speed, m | ni/h | 14.8 | | Percent I | Followers, | . % | 52.5 |
| Seg | ment Travel Ti | me, minutes | 1.40 | | Follower | Density, | followers/mi/ln | 8.9 |
| Veh | icle LOS | | С | | | | | |
| Bic | ycle Resul | lts | • | | | | | |
| Perc | ent Occupied | Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flov | v Rate Outside | Lane, veh/h | 251 | | Bicycle E | ffective W | /idth, ft | 22 |
| Bicy | cle LOS Score | | 2.63 | | Bicycle E | ffective S | peed Factor | 2.61 |
| Bicy | cle LOS | | С | | | | | |
| Fac | cility Resu | lts | | | · | | | |
| | т | Follower | Density, followe | rs/mi/ln | | | LO | S |
| | 1 | | 8.9 | | | | C | |
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| | | HCS7 Two-l | Lane | Highv | way Re | eport | | |
|-----------------------------------|----------------------------------|------------------------------|-----------|----------------------|-----------------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ncy | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | ect Description | SR048_N.Main Stree Hwy 48 | t/State | Units | | | U.S. Customary | |
| | | | Segment 1 | | | | | |
| Vel | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrained | | Length, | ft | | 4662 | |
| Lane | e Width, ft | 12 | | Shoulde | r Width, f | t | 3 | |
| Spe | ed Limit, mi/h | 45 | | Access P | oint Dens | ity, pts/mi | 45.0 | |
| De | mand and Capacity | | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 651 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 9.00 | |
| Seg | ment Capacity, veh/h | 1700 | | | Demand/Capacity (D/C) | | 0.38 | |
| Int | ermediate Results | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 38.9 | |
| Spe | ed Slope Coefficient | 3.48777 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.47542 | | PF Powe | r Coefficie | ent | 0.67445 | |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 12.0 | |
| %lm | nproved % Followers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Su | bsegment Data | | | | | | | |
| # | Segment Type | Length, ft | Rad | lius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 4662 | - | | | - | 36.2 | |
| Vel | hicle Results | | | | | | • | |
| Ave | rage Speed, mi/h | 36.2 | | Percent | Followers, | . % | 66.9 | |
| Seg | ment Travel Time, minutes | 1.46 | | Follower | Density, | followers/mi/ln | 12.0 | |
| Veh | icle LOS | D | | | | | | |
| Bic | cycle Results | | | | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 651 | | | Bicycle E | ffective W | /idth, ft | 15 | | |
| Bicy | rcle LOS Score | 6.67 | | Bicycle E | ffective S | peed Factor | 4.42 | |
| Bicy | rcle LOS | F | | | | | | |
| Fac | cility Results | | | | | | | |
| | T Follows | r Density, followers/m | i/ln | | | LC | os | |
| | 1 | 12.0 | | | D D | | | |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|----------------------------------|-----------------|--------------------------------|------------------------|----------|-------------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR048_N.Main Street | | Units | | | U.S. Customary |
| | | | So | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 2746 |
| Lane Width, ft | | 12 | | Shoulder | · Width, ft | i . | 3 | |
| Speed Limit, mi/h | | 35 | | Access P | oint Dens | ity, pts/mi | 45.0 | |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 651 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 9.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.38 |
| Int | ermediate | Results | <u> </u> | | | | | |
| Segi | ment Vertical (| Class | 2 | | Free-Flov | w Speed, | mi/h | 27.5 |
| Spe | ed Slope Coef | ficient | 4.41003 | | Speed Po | ower Coef | fficient | 0.41622 |
| PF S | Slope Coefficie | nt | -1.53298 | | PF Power | r Coefficie | ent | 0.60751 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 18.8 |
| %lm | nproved % Foll | owers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 2746 | - | | | - | 24.1 |
| Vel | hicle Resu | lts | | | | | | · |
| Avei | rage Speed, m | i/h | 24.1 | | Percent F | ollowers, | % | 69.3 |
| Segi | ment Travel Ti | me, minutes | 1.30 | | Follower Density, followers/mi/ln | | | 18.8 |
| Vehicle LOS E | | E | | | | | | |
| Bicycle Results | | | | | | | | |
| Percent Occupied Parking 0 Pavem | | | | | | nt Conditi | on Rating | 4 |
| Flow | v Rate Outside | Lane, veh/h | 651 | | Bicycle E | ffective W | /idth, ft | 15 |
| Bicy | rcle LOS Score | | 6.23 | | Bicycle Effective Speed Factor 3.84 | | | 3.84 |
| Bicycle LOS F | | | | | | | | |
| Facility Results | | | | | | | | |
| | Т | Follower | Density, followers/mi/ | ln | | | LO | S |
| | 1 | | 18.8 | | | | E | |
| | | varsity of Florida, All Pights | | | o Varsian 7 | | | Caparatad: 02/01/2023 13:57:08 |

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR048 N. Main Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (U, It - Percent Grade, % - Resure of Grade Length, mi - Resured or Base Free-Flow Speed Base Grade Length, mi - Resured or Base Free-Flow Speed (BFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width ft 11 Left-Side Lateral Clearance (ILCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 14.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Adjustment Factor 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) velvh 599 Heavy Vehicle Adjustment Factor (FNP) 0.847 Peak Hour Factor 0.92 Flow Rate (IV.), pc/hV/n 384 Total Trucks, % 9.00 Capacity (c.), pc/hV/n 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/hV/n 1900 Direction 1 Speed and Density Lane Width Adjustment (fNW) 1.9 Average Speed (S), mi/h 31.5 Direction 1 Speed and Density Lane Width Adjustment (fNW) 1.6 Level of Service (LOS) 8 Access Point Density Adjustment (fA) 1.00 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.) veh/h 17 Bicycle OS Score (BLOS) 4.03 | | HCS7 Multilane | Highway Report | |
|--|--------------------------------------|----------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SRO48 N. Main Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Main Street (Multilane) Measured or Base Free-Flow Speed Base Grade Length, mi - Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed (BFS), mi/h | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR048, N. Main Street (Multilane) Direction 1 Geometric Data Direction 1 North North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Measured or Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hv/ln 384 Total Trucks, % 9.00 Capacity (c, pc/hv/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cao), pc/hv/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (fix) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (filc.) 0.0 Density (D), pc/mi/n 12.2 Median Type Adjustment (fix) 1.00 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol, veh/h 326 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wo), ft 177 Bicyle LOS Score (BLOS) 4.03 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR048, N. Main Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft Percent Grade, % Percent Grade, Perc | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi 45.0 Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (Filv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 384 Total Trucks, % 9.00 Capacity (c), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (capit), pc/hVln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fluw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fluc) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (flw) 1.6 Level of Service (LOS) B Access Point Density Adjustment (flx) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 326 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wo), ft 17 | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (Hiv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hyln 384 Total Trucks, % 9.00 Capacity (ca), pc/hyln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/hyln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ftuc) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (ftw) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wo), ft 17 Bicycle LOS Score (BLOS) 4.03 | Project Description | | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (Hv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Capi), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (flw) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fM) 1.6 Level of Service (LOS) B Effective Width of Volume (Wo), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 1.00 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 326 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 | North | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 45.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (f+v) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Tractor-Trailers (TT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (My) 1.00 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Ww), ft 17 Bicycle LOS Score (BLOS) 4.03 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h Lane Width, ft Lane Width, ft Left-Side Lateral Clearance (LCR), ft Median Type Undivided Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) Direction 1 Demand and Capacity Volume(V) veh/h Sepender Heavy Vehicle Adjustment Factor (Hv) Single-Unit Trucks (SUT), % Tractor-Trailers (TT), % Power Adjustment (ftw) Direction 1 Speed Adjustment Factor (Fiv) Adjustment Factor (Fiv) Adjusted Capacity (cadj), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) Density (D), pc/mi/ln 1.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 11 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type Undivided Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c., pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (flw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fl.C) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (flw) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.) veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 45.0 |
| Free-Flow Speed (FFS), mi/h 31.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c., pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ft.c) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Lane Width, ft | 11 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (finv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fl.w) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fl.t.c) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Median Type | Undivided | Total Lateral Clearance (TLC), ft | 12 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.W) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fl.LC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Free-Flow Speed (FFS), mi/h | 31.5 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ftLc) Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 326 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicycle LOS Score (BLOS) 4.03 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 599 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 384 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ft.tc) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 Demand and Cap | pacity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ft.t.c) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Volume(V) veh/h | 599 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (ftLC) Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL), veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Peak Hour Factor | 0.92 | Flow Rate (V _P), pc/h/ln | 384 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 31.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.2 Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.20 |
| Total Lateral Clearance Adj. (fLLC) Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 226 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) 1.6 Level of Service (LOS) B Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Lane Width Adjustment (fLW) | 1.9 | Average Speed (S), mi/h | 31.5 |
| Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | - | 0.0 | | 12.2 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Median Type Adjustment (fM) | 1.6 | Level of Service (LOS) | В |
| Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Access Point Density Adjustment (fA) | 10.0 | | |
| Flow Rate in Outside Lane (vOL),veh/h 326 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | Direction 1 Bicycle LOS | | | • |
| Effective Width of Volume (Wv), ft 17 Bicyle LOS Score (BLOS) 4.03 | , | 326 | Effective Speed Factor (St) | 3.39 |
| | | | · | |
| | Average Effective Width (We), ft | 23 | Bicycle Level of Service (LOS) | D |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 45.0 |
| Lane Width, ft | 11 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Undivided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 31.5 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 322 | Heavy Vehicle Adjustment Factor (fhv) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 206 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.11 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 1.9 | Average Speed (S), mi/h | 31.5 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 6.5 |
| Median Type Adjustment (fM) | 1.6 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 10.0 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 326 | Effective Speed Factor (St) | 3.39 |
| Effective Width of Volume (Wv), ft | 17 | Bicyle LOS Score (BLOS) | 4.03 |
| Average Effective Width (We), ft | 23 | Bicycle Level of Service (LOS) | D |
| | | | |

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| | | HCS7 Two | -Lane | Highv | way Re | eport | | |
|-------|----------------------------------|-------------------------|-----------|-----------------------|-------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | iect Description | SR048_Church St, Ave | /E.Ricket | Units | | | U.S. Customary | |
| | | | Segment 1 | | | | | |
| Vel | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 950 | |
| Lane | e Width, ft | 16 | | Shoulde | r Width, f | t | 2 | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 50.0 | |
| De | mand and Capacity | • | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 212 | | Opposin | g Deman | d Flow Rate, veh/h | T- | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 4.00 | |
| Seg | ment Capacity, veh/h | | | Demand/Capacity (D/C) | | | 0.12 | |
| Int | ermediate Results | | | | | | · | |
| Seg | ment Vertical Class | 1 | | Free-Flo | w Speed, | mi/h | 23.7 | |
| Spe | ed Slope Coefficient | 1.79146 | | Speed Pe | ower Coe | fficient | 0.41674 | |
| PF S | Slope Coefficient | -1.40274 | -1.40274 | | r Coefficie | ent | 0.59033 | |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 4.0 | |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 | |
| Su | bsegment Data | • | | • | | | · | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 950 | - | | | - | 22.9 | |
| Vel | hicle Results | <u>'</u> | | | | | · | |
| Ave | rage Speed, mi/h | 22.9 | | Percent | Followers | . % | 43.0 | |
| Seg | ment Travel Time, minutes | 0.47 | | Follower | Density, | followers/mi/ln | 4.0 | |
| Veh | icle LOS | В | | | | | | |
| Bic | cycle Results | • | | | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| | v Rate Outside Lane, veh/h | 212 | | Bicycle E | ffective V | /idth, ft | 18 | |
| Bicy | Bicycle LOS Score 3.65 | | | Bicycle E | ffective S | peed Factor | 3.39 | |
| Bicy | rcle LOS | D | | | | | | |
| Fac | cility Results | | | | | | | |
| | T Followe | r Density, followers | /mi/ln | | | LC | OS . | |
| | 1 | 4.0 | | | В | | | |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | |
|-------|----------------------------------|------------------------|-----------|-----------|-------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | SR048_Center Av St. | /e/Church | Units | | | U.S. Customary |
| | | | Segn | nent 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 1320 |
| Lane | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 50.0 |
| De | mand and Capacity | | | | | | <u>'</u> |
| Dire | ectional Demand Flow Rate, veh/h | 375 | | Opposin | ıg Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | 0.92 | | Total Tru | ıcks, % | | 4.00 |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | l/Capacity | (D/C) | 0.22 |
| Int | ermediate Results | | | | | | · |
| Seg | ment Vertical Class | 1 | | Free-Flo | w Speed, | mi/h | 20.1 |
| Spe | ed Slope Coefficient | 1.59634 | | Speed Po | ower Coe | fficient | 0.41674 |
| PF S | Slope Coefficient | -1.34768 | | PF Powe | r Coefficie | ent | 0.56673 |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 10.6 |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | | | • | | | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 1320 | - | | | - | 19.1 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 19.1 | | Percent | Followers, | , % | 53.8 |
| Seg | ment Travel Time, minutes | 0.78 | | Follower | Density, | followers/mi/ln | 10.6 |
| Veh | icle LOS | D | | | | | |
| Bic | cycle Results | | | | | | <u>'</u> |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| | v Rate Outside Lane, veh/h | 375 | | Bicycle E | Effective V | Vidth, ft | 12 |
| Bicy | vcle LOS Score | 4.84 | | Bicycle E | Effective S | peed Factor | 3.39 |
| Bicy | rcle LOS | E | | | | | |
| Fac | cility Results | • | | | | | |
| | T Follow | er Density, followers | s/mi/ln | | | LC | OS . |
| | 1 | 10.6 | | | | |) |

| | | | HCS7 Two-La | ane H | lighv | vay Re | eport | |
|-------|------------------|-------------------------------|------------------------|------------|-----------------------|------------|--------------------|--------------------------------|
| Pro | oject Infori | mation | | | | | | |
| Ana | lyst | | TCG | D | ate | | | 6/20/2022 |
| Age | ncy | | TCG | A | nalysis ` | Year | | 2022 |
| Juris | diction | | Dickson County | | ime Ana | lyzed | | Existing |
| Proj | ect Description | 1 | SR048_Center Ave | U | Inits | | | U.S. Customary |
| | | | Se | Segment 1 | | | | |
| Vel | hicle Input | S | | | | | | |
| Segi | ment Type | | Passing Constrained | Le | ength, f | t | | 6098 |
| _ | e Width, ft | | 11 | | | Width, ft | | 2 |
| Spe | ed Limit, mi/h | | 45 | A | ccess Po | oint Dens | ity, pts/mi | 45.0 |
| De | mand and | Capacity | • | | | | | , |
| Dire | ctional Deman | d Flow Rate, veh/h | 584 | О | Opposino | g Demano | d Flow Rate, veh/h | - |
| | k Hour Factor | | 0.92 | | otal Truc | - | | 3.00 |
| Segi | ment Capacity, | veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.34 |
| | ermediate | | | | , , | | | |
| Sea | ment Vertical C | Class | 2 | Fr | ree-Flov | v Speed, i | mi/h | 37.8 |
| | ed Slope Coeff | | 3.57677 | | | wer Coef | | 0.41622 |
| i i | Slope Coefficier | | -1.46946 | | • | Coefficie | | 0.66402 |
| | | ective Length? | No | | otal Seg | ment Dei | nsity, veh/mi/ln | 10.7 |
| %lm | proved % Follo | owers | 0.0 | | | ed Avg S | - | 0.0 |
| Sul | bsegment | Data | 1 | | | | | , |
| # | Segment Typ | De | Length, ft | Radius | s, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 6098 | - | | | - | 35.2 |
| Vel | hicle Resul | ts | - | | | | | |
| Avei | rage Speed, mi | //h | 35.2 | Pe | ercent F | ollowers, | <u> </u> | 64.2 |
| | ment Travel Tir | | 1.97 | | | | followers/mi/ln | 10.7 |
| | icle LOS | , | D | | | | | |
| Bic | ycle Resul | ts | | | | | | |
| | ent Occupied | | 0 | Pa | avemen | t Conditio | on Rating | 4 |
| | v Rate Outside | | 584 | | | fective W | | 13 |
| | cle LOS Score | | 5.11 | | | | peed Factor | 4.42 |
| Bicy | cle LOS | | E | | - | · | | |
| Fac | ility Resul | ts | • | | | | | <u>'</u> |
| | Т | | Density, followers/mi/ | 'In | | | LO | S |
| | 1 | | 10.7 | | | | D | |
| Copyr | · · | ersity of Florida, All Rights | | Two-Lane \ | Version 7 | 0.6 | | Generated: 02/01/2023 13:54:05 |

| | | eport | | | | | |
|-----------------------------------|-----------------------|------------------------|--|---|-------------|--------------------|---------------------|
| Project Info | ormation | | | | | | |
| Analyst | | TCG | | Date | | | 6/20/2022 |
| Agency | | TCG | A | Analysis Year | | | 2022 |
| Jurisdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Project Descript | tion | SR048_Center Ave 2 | | Jnits | | | U.S. Customary |
| | | S | egme | ent 1 | | | |
| Vehicle Inp | uts | | | | | | |
| Segment Type | | Passing Constrained | L | Length, f | t | | 3358 |
| Lane Width, ft | | 11 | S | Shoulder | · Width, f | t | 4 |
| Speed Limit, mi | /h | 30 | A | Access P | oint Dens | ity, pts/mi | 45.0 |
| Demand ar | nd Capacity | • | | | | | |
| Directional Den | nand Flow Rate, veh/h | 251 | C | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak Hour Facto | or | 0.92 | Т | Total Tru | cks, % | | 4.00 |
| Segment Capac | city, veh/h | | | Demand/Capacity (D/C) | | | 0.15 |
| Intermedia | te Results | <u> </u> | | | | | |
| Segment Vertic | al Class | 2 | F | Free-Flov | w Speed, | mi/h | 22.1 |
| Speed Slope Co | pefficient | 4.84960 | S | Speed Po | ower Coe | fficient | 0.41622 |
| PF Slope Coeffi | cient | -1.48635 | F | PF Powei | r Coefficie | ent | 0.56806 |
| In Passing Lane | Effective Length? | No | Т | Total Seg | ment De | nsity, veh/mi/ln | 6.2 |
| %Improved % F | ollowers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Subsegmei | nt Data | | | | | | |
| # Segment | Туре | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | | 3358 | - | - | | - | 19.9 |
| Vehicle Res | sults | | | | | | |
| Average Speed, | , mi/h | 19.9 | F | Percent F | ollowers, | . % | 49.2 |
| Segment Travel | Time, minutes | 1.92 | F | ollower | Density, | followers/mi/ln | 6.2 |
| Vehicle LOS | | С | | 2 | | | |
| Bicycle Res | Bicycle Results | | | | | | |
| Percent Occupi | ed Parking | 0 | F | Pavemen | ıt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 251 | | Е | Pavement Condition Rating Bicycle Effective Width, ft | | /idth, ft | 19 | |
| Bicycle LOS Sco | re | 3.56 | E | Bicycle Effective Speed Factor | | | 3.39 |
| Bicycle LOS D | | | | | | | |
| Facility Res | sults | | | | | | |
| т | Follower | Density, followers/mi/ | ′ln | | | LO | S |
| 1 | | 6.2 | | | | С | |
| | | | | | | | |

| | | HCS7 Two- | -Lane | Highv | way Re | eport | |
|-------|----------------------------------|-----------------------------|-----------------------------------|-----------------------|-------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ncy | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | 047_Stuart St/Chur Hwy47 | 047_Stuart St/Church St/ Hwy47 | | | | U.S. Customary |
| | | | Segn | nent 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constraine | ed | Length, | ft | | 3342 |
| Lane | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 30.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 116 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.07 |
| Int | ermediate Results | · | | | | | • |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 22.6 |
| Spe | ed Slope Coefficient | 4.80645 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficient | -1.49163 | | PF Powe | r Coefficie | ent | 0.57146 |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 1.9 |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | - | | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 3342 | - | | | - | 21.7 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 21.7 | | Percent | Followers | , % | 35.4 |
| Seg | ment Travel Time, minutes | 1.75 | | Follower | Density, | followers/mi/ln | 1.9 |
| Veh | icle LOS | А | | | | | |
| Bic | cycle Results | | | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| | v Rate Outside Lane, veh/h | 116 | | Bicycle E | ffective V | Vidth, ft | 18 |
| Bicy | rcle LOS Score | 3.16 | | Bicycle E | ffective S | peed Factor | 3.39 |
| Bicy | rcle LOS | С | | | | | |
| Fac | cility Results | | | | | | |
| | T Follows | r Density, followers/ | mi/ln | | | LC | os . |
| | 1 | 1.9 | | | | Α | |

| | | | HCS7 Two-La | ne H | lighv | vay Re | eport | |
|-----------------------------------|-----------------|----------------------------------|-------------------------|------------|-----------------------------|-------------------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | Da | ate | | | 6/20/2022 |
| Age | ncy | | TCG | Ar | nalysis ` | Year | | 2022 |
| Juris | diction | | Dickson County | | me Ana | alyzed | | Existing |
| Proj | ect Description | n | SR047_Hwy 47 | | nits | | | U.S. Customary |
| | | | Se | egme | nt 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Le | ength, f | t | | 1753 |
| Lane | e Width, ft | | 11 | Sh | houlder | Width, ft | | 6 |
| Speed Limit, mi/h | | 55 | Ad | ccess Po | oint Dens | ity, pts/mi | 15.0 | |
| Demand and Capacity | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 339 | 0 | pposing | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | To | otal Truc | cks, % | | 6.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.20 |
| Int | ermediate | Results | | <u> </u> | | • | | |
| Segi | ment Vertical (| Class | 3 | Fr | ee-Flov | v Speed, | mi/h | 57.2 |
| | ed Slope Coef | | 5.28182 | _ | | wer Coef | | 0.54438 |
| PF S | lope Coefficie | nt | -1.45049 | PF | F Power | Coefficie | ent | 0.73511 |
| In Pa | assing Lane Ef | fective Length? | No | To | otal Seg | ment De | nsity, veh/mi/ln | 3.0 |
| %lm | proved % Foll | owers | 0.0 | | Improv | ved Avg S | peed | 0.0 |
| Sul | bsegment | Data | - | | | | | |
| # | Segment Ty | pe | Length, ft | Radius, | , ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 1753 | - | | | - | 54.8 |
| Vel | hicle Resul | lts | | | | | | |
| Avei | rage Speed, m | i/h | 54.8 | Pe | ercent F | ollowers, | % | 48.1 |
| | ment Travel Ti | | 0.36 | Fc | ollower | Density, 1 | followers/mi/ln | 3.0 |
| | icle LOS | | В | | | | | |
| Bicycle Results | | | | | | | • | |
| Perc | ent Occupied | Parking | 0 | Pa | avemen | t Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 339 | | | | Bi | Bicycle Effective Width, ft | | | 23 |
| Bicycle LOS Score 4.03 | | | | | icycle Et | ffective S _I | peed Factor | 4.79 |
| Bicycle LOS D | | | | | | | | |
| Fac | ility Resul | ts | | , | | | | |
| | Т | Follower | Density, followers/mi/l | n | | | LO | S |
| | 1 | | 3.0 | | | | В | |
| | | varsity of Florida, All Pights (| | iwo-Lano \ | | | | Ganaratad: 02/01/2023 13:51:55 |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | |
|---------------------|-------------------|----------------------------------|-------------------------|-------|-----------------------|-------------------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | [| Date | | | 6/20/2022 |
| Age | ncy | | TCG | A | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR047_Hwy 47 | ι | Units | | | U.S. Customary |
| | | | Se | egme | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | L | Length, f | t | | 11194 |
| Lane | e Width, ft | | 11 | 5 | Shoulder | · Width, ft | i | 3 |
| Spe | Speed Limit, mi/h | | 55 | F | Access P | oint Dens | ity, pts/mi | 15.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 339 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | Т | Total Tru | cks, % | | 6.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.20 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 4 | F | Free-Flov | w Speed, | mi/h | 54.2 |
| | ed Slope Coef | | 7.26153 | | | ower Coef | | 0.36797 |
| PF S | Slope Coefficie | nt | -1.98060 | F | PF Power | Coefficie | ent | 0.74442 |
| In Pa | assing Lane Ef | fective Length? | No | 1 | Total Seg | ment De | nsity, veh/mi/ln | 4.0 |
| %lm | nproved % Foll | owers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | • | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 11194 | - | | | - | 49.9 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 49.9 | F | Percent F | - ollowers, | % | 58.7 |
| Segi | ment Travel Ti | me, minutes | 2.55 | F | ollower | Density, 1 | followers/mi/ln | 4.0 |
| Vehi | icle LOS | | В | | | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Perc | ent Occupied | Parking | 0 | F | Pavemen | ıt Conditi | on Rating | 4 |
| Flow | v Rate Outside | Lane, veh/h | 339 | E | Bicycle E | ffective W | /idth, ft | 14 |
| Bicy | rcle LOS Score | | 5.70 | E | Bicycle E | ffective S _I | peed Factor | 4.79 |
| Bicy | cle LOS | | F | | | | | |
| Fac | cility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S |
| | 1 | | 4.0 | | | | В | |
| | | varsity of Florida, All Diabts I | | | Vorcion 7 | | | Ganaratad: 02/01/2022 12:51:13 |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | |
|-----------------------------------|-------------------|----------------------------------|-------------------------|-------|-----------------------|-------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | 1 | Date | | | 6/20/2022 |
| Age | ncy | | TCG | A | Analysis ` | Year | | 2022 |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR047_Hwy 47 | | Jnits | | | U.S. Customary |
| | | | Se | egme | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | L | Length, f | t | | 8543 |
| Lane | e Width, ft | | 10 | 5 | Shoulder | · Width, ft | t | 2 |
| Spe | Speed Limit, mi/h | | 30 | F | Access Po | oint Dens | ity, pts/mi | 30.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 338 | | Opposing | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | 1 | Total True | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.20 |
| Int | ermediate | Results | | · | | | • | |
| Segi | ment Vertical (| Class | 2 | F | Free-Flov | w Speed, | mi/h | 22.6 |
| | ed Slope Coef | | 4.80645 | | | ower Coet | | 0.41622 |
| PF S | lope Coefficie | nt | -1.45080 | F | PF Power | r Coefficie | ent | 0.56513 |
| In Pa | assing Lane Ef | fective Length? | No | Т | Total Seg | ment De | nsity, veh/mi/ln | 9.2 |
| %lm | proved % Foll | owers | 0.0 | | % Improv | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 8543 | - | | | - | 20.0 |
| Vel | hicle Resul | lts | | | | | | |
| Avei | rage Speed, m | i/h | 20.0 | F | Percent F | ollowers, | . % | 54.4 |
| Segi | ment Travel Ti | me, minutes | 4.86 | F | Follower | Density, | followers/mi/ln | 9.2 |
| Vehi | icle LOS | | С | | | | | |
| Bic | ycle Resul | ts | | | | | | |
| Perc | ent Occupied | Parking | 0 | F | Pavemen | ıt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 338 | | | | E | Bicycle E | ffective W | /idth, ft | 12 |
| Bicy | cle LOS Score | | 4.60 | E | Bicycle E | ffective S | peed Factor | 3.39 |
| Bicy | cle LOS | | E | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S |
| | 1 | | 9.2 | | | | С | |
| | | varsity of Florida, All Pights (| | | Vorcion 7 | | | Ganaratad: 02/01/2023 13:47:04 |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | |
|-----------------------------------|-------------------|--------------------------------|-------------------------|----------|-----------------------|--------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | Δ | Analysis | Year | | 2022 |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR047_Hwy 47 | ι | Jnits | | | U.S. Customary |
| | | | Se | egme | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | L | ength, f | t | | 8559 |
| Lane | e Width, ft | | 10 | S | Shoulder | · Width, ft | i | 1 |
| Spe | Speed Limit, mi/h | | 30 | Δ | Access P | oint Dens | ity, pts/mi | 45.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 338 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | Т | Total Tru | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.20 |
| Int | ermediate | Results | • | <u>'</u> | | | | |
| Segi | ment Vertical (| Class | 2 | F | ree-Flov | w Speed, | mi/h | 19.4 |
| | ed Slope Coef | | 5.06533 | | | ower Coef | | 0.41622 |
| PF S | lope Coefficie | nt | -1.42711 | P | PF Power | r Coefficie | ent | 0.54005 |
| In Pa | assing Lane Ef | fective Length? | No | Т | Total Seg | ment De | nsity, veh/mi/ln | 11.2 |
| %lm | proved % Foll | owers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | s, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 8559 | - | | | - | 16.6 |
| Vel | hicle Resul | lts | | | | | | |
| Avei | rage Speed, m | i/h | 16.6 | P | Percent F | ollowers, | % | 54.8 |
| Segi | ment Travel Ti | me, minutes | 5.85 | F | ollower | Density, 1 | followers/mi/ln | 11.2 |
| Vehi | icle LOS | | D | | | | | |
| Bic | ycle Resul | ts | ' | | | | | |
| Perc | ent Occupied | Parking | 0 | P | Pavemen | nt Condition | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 338 | | | | В | Bicycle E | ffective W | /idth, ft | 11 |
| Bicy | cle LOS Score | | 4.71 | В | <u>'</u> | | | 3.39 |
| Bicy | cle LOS | | E | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S |
| | 1 | | 11.2 | | | | D | |
| | | varsity of Florida, All Pights | | | Vorsion 7 | | | Gaparatad: 02/01/2023 13:45:36 |

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR047 E-Walnut Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (U, It - Percent Grade, % - Resured or Base Free-Flow Speed Base Grade Length, mi - Sase Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (ILCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Tucks, % 3.00 Capacity (c), pc/hv/in 1900 Frection 1 Demand and Capacity Undure(V) velv/h 311 Heavy Vehicle Adjustment Factor (FAP) 0.943 Feak Hour Factor 0.92 Flow Rate (FV), pc/hv/in 1900 Frection 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fluc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fiw) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fix) 1.0 Density (D), pc/mi/ln 5.6 File Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wo), ft 13 | | HCS7 Multilane | Highway Report | |
|--|---------------------------------------|----------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR047, E.Walnut Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Rolling Base Free-Flow Speed Base Grade Length, mi - Rolling Segment Length (E), In 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undwided Total Lateral Clearance (LCR), ft 6 Median Type Undwided Total Lateral Clearance (LCR), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1,000 Driver Population CAF 1,000 Final Capacity Adjustment Factor (CAF) 1,000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (FIV) 0,943 Peak Hour Factor 0,992 Flow Rate (Vp), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cad), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (flu) 1,00 Average Speed (S), mi/h 32.1 Direction 1 Speed and Density Lane Width Adjustment (flu) 1,00 Average Speed (S), mi/h 5,6 Median Type Adjustment (flu) 1,00 Fiffective Speed Factor (SI) 3,39 Effective Width of Volume (Wo), ft 13 Bioyle LOS Score (BLOS) 4,12 | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR047_E.Walnut Street (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Measured or Base Free-Flow Speed Base Grade Length, mi - Median Type Londwidth, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factor Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (FHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hyln 1900 Single-Unit Trucks, % 3.00 Capacity (c), pc/hyln 1900 Direction 1 Speed and Density Lane Width Adjustment (fill) 0.0 Average Speed (S), mi/h 32.1 Tractor-Trailers (TI), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fill) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fill) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fill) 1.6 Level of Service (LOS) A 2.1 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol, veh/h 169 Effective Speed Factor (Si) 3.39 Effective Width of Volume (W), ft 183 Bicyle LOS Score (BLOS) 4.12 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR047_E, Walnut Street (Multilane) | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (LCR), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (ftw) 0.943 Peak Hour Factor 0.992 Flow Rate (Vp), pc/hVln 179 Total Trucks, % 3.00 Capacity (A), pc/hVln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ftLC) 1.3 Density (D), pc/mi/h 5.6 Median Type Adjustment (ftw) 1.6 Level of Service (LOS) A 1.00 Direction 1 Bicycle LOS Flow Rate (vol.) Second (Slo.) 4.12 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wo), ft 18 Bicyle LOS Score (BLOS) 4.12 | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Total Lateral Clearance (TLC), ft 7 Final Speed Adjustment Factor (SAF) 1.000 Triver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Triver Population CAF 1.000 Final Capacity Adjustment Factor (FAF) 1.000 Triver Population CAF 1.000 Triver Popul | Project Description | | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fitv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 179 Total Trucks, % 3.00 Capacity (c, pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cagi), pc/hVln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fitw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLIC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (M) 1.6 Level of Service (LOS) A Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population All Familiar Final Capacity Adjustment Factor (CAF) Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fi+V) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 179 Total Trucks, % 3.00 Capacity (c), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/hVln 1900 Direction 1 Speed and Density Lane Width Adjustment (fitW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D.), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot), veh/h 169 Effective Speed Factor (SLOS) 4.12 | Direction 1 | North | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 60.0 Lane Width, ft 12 Left-Side Lateral Clearance (ILCR), ft 6 Median Type Undivided Total Lateral Clearance (ILCR), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fhv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (Cap), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ftLC) 1.3 Density (D, pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (My) 1.00 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Ww), ft 13 Bicyle LOS Score (BLOS) 4.12 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h Iane Width, ft I2 Left-Side Lateral Clearance (ICR), ft 6 Median Type Undivided Total Lateral Clearance (ILC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population CAF I.000 Final Capacity Adjustment Factor (CAF) Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (Ftv) Director Tucks, % 3.00 Capacity (V), pc/h/ln 179 Total Trucks, % 3.00 Capacity (C), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Density (D), pc/mi/ln 5.6 Median Type Adjustment (ftw) 1.6 Level of Service (LOS) A Access Point Density Adjustment (Fs) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Priver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fHv) 1.7 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cag), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type Undivided Total Lateral Clearance (TLC), ft 7 Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fhv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (Cap), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fluc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (S1) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 60.0 |
| Free-Flow Speed (FFS), mi/h 32.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fHv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (filtv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ft.t.c) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (ftM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Fifective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Median Type | Undivided | Total Lateral Clearance (TLC), ft | 7 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fHv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Free-Flow Speed (FFS), mi/h | 32.1 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fitv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fitw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fluc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicycle LOS Score (BLOS) 4.12 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ftLc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ft.Lc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 311 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 179 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ft.LC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Direction 1 Demand and Cap | pacity | | |
| Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ft.t.c) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Volume(V) veh/h | 311 | Heavy Vehicle Adjustment Factor (fHV) | 0.943 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (ftLc) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 179 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.09 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) A Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 32.1 Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.09 |
| Total Lateral Clearance Adj. (fLLC) 1.3 Density (D), pc/mi/ln 5.6 Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) 1.6 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 169 Effective Speed Factor (St) Bicyle LOS Score (BLOS) 4.12 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 32.1 |
| Access Point Density Adjustment (fA) 10.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Total Lateral Clearance Adj. (fLLC) | 1.3 | Density (D), pc/mi/ln | 5.6 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 169 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Median Type Adjustment (fM) | 1.6 | Level of Service (LOS) | А |
| Flow Rate in Outside Lane (vOL),veh/h Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Access Point Density Adjustment (fA) | 10.0 | | |
| Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.12 | Flow Rate in Outside Lane (vOL),veh/h | 169 | Effective Speed Factor (St) | 3.39 |
| | | 13 | · | |
| | Average Effective Width (We), ft | | Bicycle Level of Service (LOS) | D |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 60.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Undivided | Total Lateral Clearance (TLC), ft | 7 |
| Free-Flow Speed (FFS), mi/h | 32.1 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 183 | Heavy Vehicle Adjustment Factor (fHV) | 0.943 |
| Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 106 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.06 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 32.1 |
| Total Lateral Clearance Adj. (fLLC) | 1.3 | Density (D), pc/mi/ln | 3.3 |
| Median Type Adjustment (fM) | 1.6 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 10.0 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 169 | Effective Speed Factor (St) | 3.39 |
| Effective Width of Volume (Wv), ft | 13 | Bicyle LOS Score (BLOS) | 4.12 |
| Average Effective Width (We), ft | 13 | Bicycle Level of Service (LOS) | D |
| | | | |

HCSTM Multilane Version 7.9.6 SR047_1577(mslink).xuf Generated: 02/01/2023 14:51:02

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | | |
|------|----------------------------------|-----------------------------------|-----------|-----------|-------------|--------------------|---------------------|--|--|
| Pro | oject Information | | | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 | | |
| Age | ency | TCG | | Analysis | Year | | 2022 | | |
| Juri | sdiction | Dickson County | | Time An | alyzed | | Existing | | |
| Proj | ject Description | SR047_Charles W Speight/Hwy 47 | /alton | Units | | | U.S. Customary | | |
| | | | Segment 1 | | | | | | |
| Ve | hicle Inputs | | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 3469 | | |
| Lan | e Width, ft | 11 | | Shoulde | r Width, f | t | 2 | | |
| Spe | ed Limit, mi/h | 40 | | Access P | oint Dens | sity, pts/mi | 15.0 | | |
| De | emand and Capacity | | | | | | • | | |
| Dire | ectional Demand Flow Rate, veh/h | 529 | | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| Pea | k Hour Factor | 0.92 | | Total Tru | cks, % | | 5.00 | | |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | /Capacity | (D/C) | 0.31 | | |
| Int | termediate Results | | | | | | • | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 38.3 | | |
| Spe | ed Slope Coefficient | 3.53767 | | Speed Po | ower Coe | fficient | 0.41622 | | |
| PF S | Slope Coefficient | -1.51032 | | PF Powe | r Coefficie | ent | 0.66742 | | |
| In P | Passing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 9.3 | | |
| %ln | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 | | |
| Su | bsegment Data | · | | • | | | · | | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | 3469 | - | | | - | 35.8 | | |
| Ve | hicle Results | | | | | | <u>'</u> | | |
| Ave | erage Speed, mi/h | 35.8 | | Percent | Followers | , % | 62.8 | | |
| Seg | ment Travel Time, minutes | 1.10 | | Follower | Density, | followers/mi/ln | 9.3 | | |
| Veh | icle LOS | С | | | | | | | |
| Bio | cycle Results | | | | | | • | | |
| Pero | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | | |
| | w Rate Outside Lane, veh/h | 529 | | | ffective V | | 13 | | |
| | /cle LOS Score | 5.46 | | - | | peed Factor | 4.17 | | |
| | vcle LOS | E | | | | | | | |
| Fac | cility Results | | | | | | | | |
| | | er Density, followers | s/mi/ln | | | LC | os | | |
| | 1 | 9.3 | | | C | | | | |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | |
|------|----------------------------------|----------------------------|---------|-----------|-------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juri | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ject Description | SR046_Yellow Cr (Rural) | eek Rd | Units | | | U.S. Customary |
| | | | Segr | nent 1 | | | |
| Ve | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ned | Length, | ft | | 60509 |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 |
| Spe | ed Limit, mi/h | 45 | | Access P | oint Dens | sity, pts/mi | 13.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 197 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Pea | k Hour Factor | 0.92 | | Total Tru | cks, % | | 5.00 |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | /Capacity | (D/C) | 0.12 |
| Int | termediate Results | · | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 43.9 |
| Spe | ed Slope Coefficient | 3.11550 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficient | -1.58868 | | PF Powe | r Coefficie | ent | 0.63527 |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 2.0 |
| %In | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 60509 | - | | | - | 42.7 |
| Ve | hicle Results | | | | | | · |
| Ave | rage Speed, mi/h | 42.7 | | Percent | Followers | , % | 43.2 |
| Seg | ment Travel Time, minutes | 16.10 | | Follower | Density, | followers/mi/ln | 2.0 |
| Veh | icle LOS | А | | | | | |
| Bio | cycle Results | | | | | | |
| Pero | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flov | w Rate Outside Lane, veh/h | 197 | | Bicycle E | ffective V | Vidth, ft | 12 |
| Bicy | vcle LOS Score | 5.20 | | Bicycle E | ffective S | peed Factor | 4.42 |
| Bicy | vcle LOS | E | | | | | |
| Fac | cility Results | | | | | | |
| | T Follow | er Density, follower | s/mi/ln | | | LC | os |
| | 1 | 2.0 | | | | , | 4 |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|-----------------------------------|-----------------|--------------------------------|-----------------------------|---------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | Date | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | า | SR046_Yellow Creek Ro | oad | Units | | | U.S. Customary |
| | | | So | egm | nent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | ft | | 10560 |
| Lane | e Width, ft | | 11 | | Shoulder | r Width, ft | t | 2 |
| Spe | ed Limit, mi/h | | 45 | | Access P | oint Dens | ity, pts/mi | 20.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 572 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | | Total Tru | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.34 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 2 | Free-Flow Speed | | w Speed, | mi/h | 42.8 |
| | ed Slope Coef | | 3.17227 | | | ower Coef | | 0.41622 |
| PF S | lope Coefficie | nt | -1.47977 | -1.47977 | | r Coefficie | ent | 0.66614 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 9.0 |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | ius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 10560 | - | | | - | 40.5 |
| Vel | hicle Resul | lts | | | | | | |
| Avei | rage Speed, m | i/h | 40.5 | | Percent F | Followers, | . % | 63.9 |
| Segi | ment Travel Ti | me, minutes | 2.96 | | Follower Density, followers/mi/ln | | followers/mi/ln | 9.0 |
| Vehi | icle LOS | | С | | | | | |
| Bic | ycle Resul | ts | <u>'</u> | | | | | |
| Percent Occupied Parking 0 | | | | Pavement Condition Rating | | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 572 | | | Bicycle Effective Width, ft | | /idth, ft | 13 | | |
| Bicy | cle LOS Score | | 5.10 | | Bicycle Effective Speed Factor | | | 4.42 |
| Bicy | Bicycle LOS E | | | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/ | ln | | | LO | S |
| | 1 | | 9.0 | | | | C | |
| | | varsity of Florida, All Pights | | | no Vorcion 7 | | | Ganaratad: 02/01/2023 13:42:15 |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|----------------------------|-----------------|----------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | SR046_Yellow Creek Ro | oad | Units | | | U.S. Customary |
| | | | So | egm | nent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | ft | | 10560 |
| Lane | e Width, ft | | 11 | | Shoulder | r Width, ft | t | 2 |
| Spe | ed Limit, mi/h | | 35 | | Access P | oint Dens | ity, pts/mi | 20.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 572 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | | Total Tru | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.34 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 2 | Free-Flo | | w Speed, | mi/h | 31.4 |
| | ed Slope Coef | | 4.09453 | | | ower Coef | | 0.41622 |
| _ | Slope Coefficie | | -1.50288 | | PF Power | r Coefficie | ent | 0.61177 |
| In Pa | assing Lane Ef | fective Length? | No | No Total Segment I | | gment De | nsity, veh/mi/ln | 13.2 |
| %lm | proved % Foll | owers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | <u> </u> | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | ius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 10560 | - | | | - | 28.4 |
| Vel | hicle Resu | lts | • | | | | | |
| Avei | rage Speed, m | i/h | 28.4 | | Percent F | Followers, | . % | 65.6 |
| Segi | ment Travel Ti | me, minutes | 4.22 | | Follower Density, followers/mi/ln | | followers/mi/ln | 13.2 |
| Vehi | icle LOS | | D | | | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | | Pavement Condition Rating | | | 4 | |
| Flow | v Rate Outside | Lane, veh/h | 572 | | Bicycle Effective Width, ft | | /idth, ft | 13 |
| Bicycle LOS Score 4.90 | | | | Bicycle Effective Speed Factor 3.84 | | | 3.84 | |
| Bicy | Bicycle LOS E | | | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/ | ln | | | LO | o'S |
| | 1 | | 13.2 | | | | D | |
| | | varsity of Florida, All Diabts I | | | no Vorcion 7 | | | Ganaratad: 02/01/2023 13:42:12 |

| Project Information | | HCS7 Multilane | Highway Report | |
|--|--------------------------------------|----------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR046, Markis Drive (Multilane) Units U.S. Customary Direction 1 Geometric Data Direction 1 North North Segment Length (I), In 2 Terrain Type Rolling Segment Length (I), It - Percent Grade, % - - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, It 12 Left-Side Lateral Clearance (ICR), It 6 Median Type TWILTL Total Lateral Clearance (ITC), It 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factor 1.000 Direct Population All Familiar Final Speed Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) verlyh 791 Heavy Vehicle Adjustment Factor (CAF) 1.000 Volume(V) ve | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR046, Mathis Drive (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi Measured or Base Free-Flow Speed (BFFS), mi/h | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR046, Mathis Drive (Multilane) Units U.S. Customary (Multilane) | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Rolling Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TCQ), ft 8 Free-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 8 Pree-Flow Speed (BFFS), mi/h 36.6 Total Lateral Clearance (TCQ), ft 9 Priver Population AFF 1.000 Final Capacity Adjustment Factor (SAF) 1.000 Total Capacity (SAF) | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Total Lateral Clearance (TLC), ft 8 Direction 1 Adjustment Factors Driver Population SAF 1.000 Final Capacity Adjustment Factor (SAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fiv) 0.847 Peak Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fix) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fix) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 430 Effective Speed Factor (SI) 3.39 Effective Width of Volume (Wo), ft 14 | Project Description | | Units | U.S. Customary |
| Number of Lanes (N), in 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft | Direction 1 | North | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (Final Capacity C | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fiv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (Si) 3.39 Effective Width of Volume (Ww), ft 14 Bicyle LOS Score (BLOS) 5.83 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Fifective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 36.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fi+V) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fitw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (ft.LC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fitw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 |
| Free-Flow Speed (FFS), mi/h 36.6 Indicated the speed of the speed (FFS), mi/h 36.6 Indicated (FF | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) 8 Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (ft.LC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (ftM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Free-Flow Speed (FFS), mi/h | 36.6 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (ftLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 430 Effective Speed Factor (St) 5.83 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 791 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 508 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (flLc) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Direction 1 Demand and Cap | pacity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (ft.LC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Volume(V) veh/h | 791 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (ftLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL), veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Peak Hour Factor | 0.92 | Flow Rate (V _P), pc/h/ln | 508 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.27 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 36.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.27 |
| Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 13.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) Bicyle LOS Score (BLOS) 5.83 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 36.6 |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | - | 0.9 | | 13.9 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Access Point Density Adjustment (fA) | 7.5 | | |
| Flow Rate in Outside Lane (vOL),veh/h 430 Effective Speed Factor (St) 3.39 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.83 | , | 430 | Effective Speed Factor (St) | 3.39 |
| | | | · | |
| | | | | |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Free-Flow Speed (FFS), mi/h | 36.6 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Cap | pacity | | |
| Volume(V) veh/h | 730 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 468 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.25 |
| Direction 2 Speed and Densi | ty | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 36.6 |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 12.8 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 430 | Effective Speed Factor (St) | 3.39 |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 5.83 |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |

HCSTM Multilane Version 7.9.6 SR046_1572(mslink).xuf Generated: 02/01/2023 14:33:35

| | | HCS7 Two-L | .ane | Highv | vay Re | eport | |
|-----------------------------------|-----------------------------------|-----------------------------|----------|-----------------------------------|-------------|--------------------|---------------------|
| Project Info | rmation | | | | | | |
| Analyst | | TCG | | Date | | | 6/20/2022 |
| Agency | | TCG | | Analysis | Year | | 2022 |
| Jurisdiction | | Dickson County | | Time An | alyzed | | Existing |
| Project Description | on | SR046_Mathis Drive | | Units | | | U.S. Customary |
| | | 9 | Segn | nent 1 | | | |
| Vehicle Inpu | ıts | | | | | | |
| Segment Type | | Passing Constrained | | Length, f | ft | | 2534 |
| Lane Width, ft | | 12 | | Shoulder | r Width, f | t | 2 |
| Speed Limit, mi/l | h | 30 | | Access P | oint Dens | sity, pts/mi | 30.0 |
| Demand and | d Capacity | ' | | • | | | |
| Directional Dema | and Flow Rate, veh/h | 860 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak Hour Factor | | 0.92 | | Total Tru | cks, % | | 9.00 |
| Segment Capacit | ry, veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.51 |
| Intermediat | e Results | <u> </u> | | | | | |
| Segment Vertical | Class | 2 | | Free-Flov | w Speed, | mi/h | 23.6 |
| Speed Slope Coe | efficient | 4.72554 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF Slope Coeffici | ent | -1.52513 | -1.52513 | | r Coefficie | ent | 0.57863 |
| In Passing Lane E | ffective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 33.4 |
| %Improved % Fo | llowers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Subsegmen | t Data | | | | | | |
| # Segment T | ype | Length, ft | Rac | lius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | | 2534 | 1- | | | - | 19.4 |
| Vehicle Resu | ılts | • | | | | | |
| Average Speed, r | mi/h | 19.4 | | Percent I | Followers, | , % | 75.3 |
| Segment Travel T | ime, minutes | 1.49 | | Follower Density, followers/mi/ln | | followers/mi/ln | 33.4 |
| Vehicle LOS | | E | | | | | |
| Bicycle Resu | ılts | • | | <u> </u> | | | |
| Percent Occupied Parking 0 | | | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 860 | | Bicycle Effective Width, ft | | Vidth, ft | 14 | | |
| Bicycle LOS Score | e | 6.18 | | Bicycle Effective Speed Factor | | peed Factor | 3.39 |
| Bicycle LOS F | | | | | | | |
| Facility Resu | ılts | | | | | | |
| т | Follower Density, followers/mi/ln | | | LOS | | | os |
| 1 | | 33.4 | | | | E | |
| | | | | | | | |

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR046 Hwy 46(Multilane) Units U.S. Customary Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Percent Grade, % - P | | HCS7 Multilane | Highway Report | |
|--|--|-------------------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR046 Hwy 46(Multilane) Units U.S. Customary Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), It - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, ptz/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 10 Direction 1 Adjustment Factors Direction 1 Adjustment Factors 1.000 Final Speed Adjustment Factor (SAF) 1.000 Direction 1 Demand and Capacity Volume(V) velv/h 776 Heavy Vehicle Adjustment Factor (Finy) 0.877 < | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR046_Hwy 46(Multilane) Units U.S. Customary Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (finv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp.), pc/hr/ln 481 Total Trucks (SUT), % 7.00 Capacity (O, pc/hr/ln 1940 Tingle-Unit Trucks (SUT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fin) 0.0 Aerage Speed (S), mi/h 47.0 Direction 1 Speed and Density Lane Width Adjustment (fin) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fin) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fin) 1.02 Effective Speed Factor (Si) 4.42 Effective Speed Factor (Si) 4.02 Effective Speed Factor (Si) 4.02 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR046, Hwy 46(Multilane) Units U.S. Customary Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Recent Grade, % - Recent Grade, Recent | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fhv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 700 Capacity (Cap), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cap), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fitw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fluc) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (flw) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 422 Effective Width of Volume (Wo), ft 18 | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mil - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (Fiv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (Capa), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cap), pc/h/ln 1940 Tractor-Traillers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fluc) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fix) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fix) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.) veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Project Description | SR046_Hwy 46(Multilane) | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h S2.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (FHV) 0.877 Peak Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fluc) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot), veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 - Access Point Density, pts/mi 20.0 Lane Width, ft 12 - Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 - Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population All Familiar Final Capacity Adjustment Factor (CAF) Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fit) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fit) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLIC) 0.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.22 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Direction 1 | North | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 47.0 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (Co, pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLtC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (My), ft 18 Bicyle LOS Score (BLOS) 4.42 Effective Width of Volume (Wv), ft 18 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h AT.0 Direction 1 Adjustment Factors Driver Population SAF 1.000 Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (ftv) Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 1940 Single-Unit Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % Tractor-Trailers (TT), % Adjusted Capacity (adj), pc/h/ln 1940 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 47.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (ftm) 0.0 Level of Service (LOS) A Access Point Density Adjustment (Ftx) Adjusted Capacity (cadj), pc/h/ln 10.2 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 10.2 Level of Service (LOS) A Access Point Density Adjustment (ftx) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol, veh/h 18 Bicyle LOS Score (BLOS) 4.42 Effective Width of Volume (Ww), ft 18 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fiv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c, pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fl.LC) 0.0 Density (D), pc/mi/ln 10.2 Access Point Density Adjustment (fix) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 47.0 | Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 20.0 |
| Free-Flow Speed (FFS), mi/h Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Priver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (FHV) Reak Hour Factor 0.92 Flow Rate (VP), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fluc) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.42 Effective Width of Volume (Wv), ft | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (ft.t.c) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHv) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Free-Flow Speed (FFS), mi/h | 47.0 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHV) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (ftLc) Median Type Adjustment (fM) 0.0 Average Speed (S), mi/h 10.2 Median Type Adjustment (fM) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Width of Volume (Wv), ft Bicycle LOS Score (BLOS) 4.42 Effective Width of Volume (Wv), ft Bicycle LOS Score (BLOS) 4.02 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHV) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 776 Heavy Vehicle Adjustment Factor (fHV) 0.877 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 481 Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLw) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Direction 1 Demand and Cap | acity | | |
| Total Trucks, % 7.00 Capacity (c), pc/h/ln 1940 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (ft.Lc) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Volume(V) veh/h | 776 | Heavy Vehicle Adjustment Factor (fHV) | 0.877 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1940 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 10.2 Median Type Adjustment (fM) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) | Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 481 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Total Trucks, % | 7.00 | Capacity (c), pc/h/ln | 1940 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1940 |
| Lane Width Adjustment (fLW) O.0 Average Speed (S), mi/h 47.0 Total Lateral Clearance Adj. (fLLC) O.0 Density (D), pc/mi/ln 10.2 Median Type Adjustment (fM) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft Bicyle LOS Score (BLOS) 4.02 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.25 |
| Total Lateral Clearance Adj. (fLLC) Median Type Adjustment (fM) O.0 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) Bicyle LOS Score (BLOS) 4.42 4.02 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 47.0 |
| Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 10.2 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Flow Rate in Outside Lane (vOL),veh/h 422 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Access Point Density Adjustment (fA) | 5.0 | | |
| Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.02 | Direction 1 Bicycle LOS | | | |
| | Flow Rate in Outside Lane (vol.),veh/h | 422 | Effective Speed Factor (St) | 4.42 |
| Average Effective Width (We), ft 24 Bicycle Level of Service (LOS) D | Effective Width of Volume (Wv), ft | 18 | Bicyle LOS Score (BLOS) | 4.02 |
| | Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 20.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 47.0 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 540 | Heavy Vehicle Adjustment Factor (fhv) | 0.877 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 334 |
| Total Trucks, % | 7.00 | Capacity (c), pc/h/ln | 1940 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1940 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.17 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 47.0 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 7.1 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 5.0 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 422 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (Wv), ft | 18 | Bicyle LOS Score (BLOS) | 4.02 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |
| | | | |

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| | HCS7 Multilane | Highway Report | | | | | | |
|--|--------------------------------|--|----------------|--|--|--|--|--|
| Project Information | | | | | | | | |
| Analyst | TCG | Date | 9/28/2022 | | | | | |
| Agency | TCG | Analysis Year | 2022 | | | | | |
| Jurisdiction | Dickson County | Time Analyzed | Existing | | | | | |
| Project Description | SR046_Hwy 46(Multilane) | Units | U.S. Customary | | | | | |
| Direction 1 Geometric Data | | | | | | | | |
| Direction 1 | North | | | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | | |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 | | | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 | | | | | |
| Free-Flow Speed (FFS), mi/h | 36.6 | | | | | | | |
| Direction 1 Adjustment Factor | Direction 1 Adjustment Factors | | | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | | |
| Driver Population CAF | 1.000 | | | | | | | |
| Direction 1 Demand and Cap | acity | | | | | | | |
| Volume(V) veh/h | 1599 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 | | | | | |
| Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 1026 | | | | | |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 | | | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.54 | | | | | |
| Direction 1 Speed and Densi | ty | | | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 36.6 | | | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 28.0 | | | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | D | | | | | |
| Access Point Density Adjustment (fA) | 7.5 | | | | | | | |
| Direction 1 Bicycle LOS | | | | | | | | |
| Flow Rate in Outside Lane (vol.),veh/h | 869 | Effective Speed Factor (St) | 3.84 | | | | | |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 6.52 | | | | | |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F | | | | | |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Free-Flow Speed (FFS), mi/h | 36.6 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Cap | pacity | | |
| Volume(V) veh/h | 861 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 552 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.29 |
| Direction 2 Speed and Densi | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 36.6 |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 15.1 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 869 | Effective Speed Factor (St) | 3.84 |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 6.52 |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |

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| | HCS7 Multilane | Highway Report | |
|---|-------------------------|--|----------------|
| Project Information | | | |
| Analyst | TCG | Date | 9/28/2022 |
| Agency | TCG | Analysis Year | 2022 |
| Jurisdiction | Dickson County | Time Analyzed | Existing |
| Project Description | SR046_Hwy 46(Multilane) | Units | U.S. Customary |
| Direction 1 Geometric Data | | | |
| Direction 1 | North | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 44.5 | | |
| Direction 1 Adjustment Facto | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 1 Demand and Cap | acity | | |
| Volume(V) veh/h | 1341 | Heavy Vehicle Adjustment Factor (fHV) | 0.877 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 831 |
| Total Trucks, % | 7.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.44 |
| Direction 1 Speed and Densit | zy | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 44.5 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 18.7 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | С |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 1 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vol),veh/h | 729 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (W _v), ft | 18 | Bicyle LOS Score (BLOS) | 4.30 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

| Direction 2 Geometric Data | | | |
|--|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 44.5 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Cap | pacity | | |
| Volume(V) veh/h | 1288 | Heavy Vehicle Adjustment Factor (fHV) | 0.877 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 798 |
| Total Trucks, % | 7.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.42 |
| Direction 2 Speed and Densi | ty | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 44.5 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 17.9 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vol.),veh/h | 729 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (Wv), ft | 18 | Bicyle LOS Score (BLOS) | 4.30 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

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| | | | HCS7 Two-La | ne H | lighv | vay Re | eport | |
|----------------------------|-----------------|--------------------------------|-------------------------|---------------------------|-------------------------------------|------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | D | ate | | | 6/20/2022 |
| Age | ency | | TCG | A | nalysis ' | Year | | 2022 |
| Juris | sdiction | | Dickson County | Ti | ime Ana | lyzed | | Existing |
| Proj | ect Description | า | SR046_Hwy 46 | U | Inits | | | U.S. Customary |
| | | | Se | egme | nt 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Le | ength, f | t | | 8216 |
| Lane | e Width, ft | | 12 | Sł | houlder | Width, ft | ; | 3 |
| Spe | ed Limit, mi/h | | 55 | A | ccess Po | oint Dens | ity, pts/mi | 20.0 |
| De | mand and | Capacity | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 843 | 0 | pposing | g Demano | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | To | otal Truc | cks, % | | 7.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.50 |
| Int | ermediate | Results | | | | | | |
| Segi | ment Vertical (| Class | 2 | Free-Flo | | v Speed, i | mi/h | 54.9 |
| Spe | ed Slope Coef | ficient | 3.18638 | | peed Pc | wer Coef | ficient | 0.44603 |
| PF S | Slope Coefficie | nt | -1.37884 | | F Power | Coefficie | ent | 0.72239 |
| In Pa | assing Lane Ef | fective Length? | No | To | Total Segment Density, veh/mi/ln | | nsity, veh/mi/ln | 11.4 |
| %lm | nproved % Foll | owers | 0.0 | % | 6 Improv | ed Avg S | peed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radius | s, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 8216 | - | | | - | 52.1 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 52.1 | Pe | ercent F | ollowers, | % | 70.5 |
| Segi | ment Travel Ti | me, minutes | 1.79 | | Follower Density, followers/mi/ln | | followers/mi/ln | 11.4 |
| Vehi | icle LOS | | D | | | | | |
| Bic | ycle Resul | ts | | | | | | |
| Percent Occupied Parking 0 | | | Pa | Pavement Condition Rating | | | 4 | |
| Flow | v Rate Outside | Lane, veh/h | 843 | Bi | Bicycle Effective Width, ft | | /idth, ft | 15 |
| Bicy | cle LOS Score | | 6.35 | Bi | Bicycle Effective Speed Factor 4.79 | | | 4.79 |
| Bicycle LOS F | | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | n | | | LO | S |
| | 1 | | 11.4 | | | | D | |
| C | :- I @ 2022 II: | varsity of Florida, All Pights | Posoniod LICSTM To | | | 0.6 | | Congrated: 02/01/2022 12:20:50 |

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_E.College Street Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TW/LTL Total Lateral Clearance (LCR), ft 6 Median Type TW/LTL Total Lateral Clearance (TCL), ft 8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (FAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (FAF) 1.000 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/hv/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/hv/ln 1900 Tractor-Trailers (IT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lene Width Adjustment (file) 0.0 Average Speed (S), mi/h 10.8 Median Type Adjustment (file) 0.0 Level of Service (LOS) A Access Point Density Adjustment (file) 0.0 Level of Service (LOS) A Access Point Density Adjustment (file) 0.0 Level of Service (LOS) A | | HCS7 Multilane | Highway Report | |
|--|--|------------------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001 E.College Street Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Regular Model of Lanes (N), In 2 Terrain Type Regular Model of Lanes (N), In 2 Terrain Type Regular Model of Lanes (N), In 3 Terrain Type Regular Model of Lanes (N), In 4 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 5 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 6 Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Lanes (N), In 7 Terrain Terrain Type Regular Model of Regular Model | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_E.College Street Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % Measured or Base Free-Flow Speed Base Grade Length, mi 3.0.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Tree-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (ft-V) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 1900 Tractor-Trailers (TI), % - Adjusted Capacity (Cap), pc/hVln 1900 Tractor-Trailers (TI), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 1.08 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wo), ft 44 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR001_ECollege Street Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Recent Grade, Rolling Segment Length (L), ft - R | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (ft-V) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 473 Total Trucks, % 9.00 Capacity (Cap), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cap), pc/hVln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (ft.cc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ft.w) 0.0 Level of Service (LOS) A Access Point Density Adjustment (ft.w) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicycle LOS Score (BLOS) 6.57 | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mil - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (Firv) 0.847 Peak Hour Factor 0.992 Flow Rate (Vp), pc/hVln 473 Total Trucks, % 9.00 Capacity (Cap), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cap), pc/hVln 1900 Tractor-Traillers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fluc) 0.9 Density (D.), pc/mi/ln 10.8 Median Type Adjustment (fix) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fix) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicycle LOS Score (BLOS) 6.57 | Project Description | SR001_E.College Street | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fl+V) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot), veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wo), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fitv) 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (fivv) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLIC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 | East | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (Cadj), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Volume-to-Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLtC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (My), ft 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Ww), ft 44 Bicyle LOS Score (BLOS) 6.57 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Pree-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population SAF 1.000 Priver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (ftv) Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 1900 Single-Unit Trucks, % 9.00 Capacity (C), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % Average Speed (S), mi/h 43.6 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 0.0 Average Speed (S), mi/h 10.8 Median Type Adjustment (fth) 7.5 Direction 1 Bicycle LOS Flow Rate (Vo), pc/mi/ln 10.8 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fthy) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cag), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (ftLc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (ftw) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 43.6 | Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Free-Flow Speed (FFS), mi/h Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Priver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wy), ft 14 Bicyle LOS Score (BLOS) 6.57 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (ft.LC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Free-Flow Speed (FFS), mi/h | 43.6 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (ftLc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 737 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 473 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fl.w) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fl.tc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Demand and Cap | acity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (ftLtc) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Volume(V) veh/h | 737 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) Total Later and Density Adjustment (fA) Total Later and Clearance Adj. (fLLC) Density (D), pc/mi/ln 10.8 Access Point Density Adjustment (fA) Total Later and Clearance Adj. (fLLC) Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 473 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.25 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 43.6 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.25 |
| Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.8 Median Type Adjustment (fM) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) A Access Point Density Adjustment (fA) T.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 43.6 |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 10.8 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Flow Rate in Outside Lane (vOL),veh/h 401 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Access Point Density Adjustment (fA) | 7.5 | | |
| Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Bicycle LOS | | | |
| | Flow Rate in Outside Lane (vol.),veh/h | 401 | Effective Speed Factor (St) | 4.42 |
| Average Effective Width (We), ft 14 Bicycle Level of Service (LOS) F | Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 6.57 |
| | Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Free-Flow Speed (FFS), mi/h | 43.6 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 680 | Heavy Vehicle Adjustment Factor (fhv) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 436 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.23 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 43.6 |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 10.0 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 401 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 6.57 |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |
| | | I | 1 |

HCSTM Multilane Version 7.9.6 SR001_1558(mslink).xuf Generated: 02/01/2023 14:22:20

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001 W.College St (Multilane) Direction 1 Geometric Data Direction 1 East Number of Lanes (N), in 2 Terrain Type Rolling Segment Length (I), ft - Percent Grade, % - Percent G | | HCS7 Multilane | Highway Report | |
|--|---------------------------------------|----------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001 W.College St (Multilane) Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Rolling Base Free-Flow Speed Base Grade Length, mi - Rolling Sase Free-Flow Speed Base Grade Length, mi - Rolling Base Free-Flow Speed (BFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (LCR), ft 2 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1,000 Driver Population CAF 1,000 Final Capacity Adjustment Factor (CAF) 1,000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (FIV) 0,847 Peak Hour Factor 0,992 Flow Rate (Vp), pc/h/ln 638 Total Tucks, % 9,00 Capacity (Cad), pc/h/ln 1900 Single-Unit Tucks (SUT), % - Adjusted Capacity (Cad), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (flu) 0,0 Average Speed (S), mi/h 42.8 Direction 1 Speed and Density Lane Width Adjustment (flu) 0,0 Level of Service (LOS) B Access Point Density Adjustment (flu) 7,5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 541 Effective Speed Factor (S) 4.42 Effective Width of Volume (Wo), ft 15 | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_W.College St (Multilane) Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi Measured or Base Free-Flow Speed Base Grade Length, mi Median Type Divided Total Lateral Clearance (LCR), ft 2 Left-Side Lateral Clearance (LCR), ft 2 Left-Side Lateral Clearance (LCR), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Total Capacity Adjustment Factor (SAF) 1.000 Total Power Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Total Capacity Capacity Capacity (CAF) 1.000 Total Capacity C | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR001_W.College St (Multilane) Units U.S. Customary (Multilane) | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft Percent Grade, % Percent Grade, | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hv/ln 638 Total Trucks, % 9.00 Capacity (Cap), pc/hv/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cap), pc/hv/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fluc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (FA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wo), ft 155 Bicyle LOS Score (BLOS) 6.57 | Project Description | | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (Firv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 42.8 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 541 Effective Speed Factor (Si) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population All Familiar Final Capacity Adjustment Factor (CAF) Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fitv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hVln 638 Total Trucks, % 9.00 Capacity (c), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/hVln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (Vr) 0.34 Direction 1 Speed and Density Lane Width Adjustment (fluv) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fluc) 1.7 Density (D), pc/mVln 14.9 Median Type Adjustment (flw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (Vol.), veh/h 541 Effective Speed Factor (Si) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 | East | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (LCR), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (Co, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D, pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (My), ft 15 Bicyle LOS Score (BLOS) 6.57 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (FHV) Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 1900 Single-Unit Trucks (SUT), % Trucks, % 9.00 Capacity (C), pc/h/ln 1900 Single-Unit Trucks (SUT), % Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 42.8 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Width of Volume (Ww), ft 15 Bicyle LOS Score (BLOS) 6.57 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 2 Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fiv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad)), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fiLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (FA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 541 Effective Speed Factor (St) 442 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type Divided Total Lateral Clearance (TLC), ft 5 Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (caj), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (caj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fluc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Free-Flow Speed (FFS), mi/h 42.8 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (cap), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad)), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLtC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (S1) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 2 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (filty) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (filw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fillc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (film) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fil) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Median Type | Divided | Total Lateral Clearance (TLC), ft | 5 |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) 8 Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot), veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Free-Flow Speed (FFS), mi/h | 42.8 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ftW) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (ftLc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (ft.tc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 995 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 638 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (ft.tc) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Demand and Cap | pacity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (ft.LC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Volume(V) veh/h | 995 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (ftLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Peak Hour Factor | 0.92 | Flow Rate (V _P), pc/h/ln | 638 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.34 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 42.8 Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.34 |
| Total Lateral Clearance Adj. (fLLC) 1.7 Density (D), pc/mi/ln 14.9 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 42.8 |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | - | 1.7 | | 14.9 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Access Point Density Adjustment (fA) | 7.5 | | |
| Flow Rate in Outside Lane (vOL),veh/h 541 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 15 Bicyle LOS Score (BLOS) 6.57 | Flow Rate in Outside Lane (vOL),veh/h | 541 | Effective Speed Factor (St) | 4.42 |
| | | | · | |
| | Average Effective Width (We), ft | | Bicycle Level of Service (LOS) | F |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 2 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 5 |
| Free-Flow Speed (FFS), mi/h | 42.8 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Cap | pacity | | |
| Volume(V) veh/h | 447 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 287 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.15 |
| Direction 2 Speed and Densi | ty | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 42.8 |
| Total Lateral Clearance Adj. (fLLC) | 1.7 | Density (D), pc/mi/ln | 6.7 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 541 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (Wv), ft | 15 | Bicyle LOS Score (BLOS) | 6.57 |
| Average Effective Width (We), ft | 15 | Bicycle Level of Service (LOS) | F |

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| | | HCS7 Two | -Lane l | Highv | vay Re | eport | |
|-------------------------------|-------------------------------|---------------------------------------|---------|-----------------------------------|------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ncy | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | SR001_US-70(Urb Arterial)/W.Colleg | | Units | | | U.S. Customary |
| | | | Segm | ent 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrain | ed | Length, f | ft | | 3928 |
| Lane | e Width, ft | 11 | | Shoulde | r Width, f | | 3 |
| Spe | ed Limit, mi/h | 45 | | Access P | oint Dens | ity, pts/mi | 20.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, ve | h/h 1082 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 9.00 |
| Seg | ment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.64 |
| Int | ermediate Results | · | | | | | • |
| Seg | ment Vertical Class | 2 | | Free-Flov | w Speed, | mi/h | 43.3 |
| Spe | ed Slope Coefficient | 3.13181 | | Speed Po | ower Coe | ficient | 0.41622 |
| PF S | Slope Coefficient | -1.47473 | | PF Power Coefficient | | ent | 0.69224 |
| In Pa | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 21.2 |
| %lm | nproved % Followers | 0.0 | | % Improved Avg Speed | | 0.0 | |
| Sul | bsegment Data | <u> </u> | | | | | • |
| # | Segment Type | Length, ft | Radio | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 3928 | 1- | | | - | 40.2 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 40.2 | | Percent Followers, % | | % | 78.9 |
| Seg | ment Travel Time, minutes | 1.11 | | Follower Density, followers/mi/ln | | followers/mi/ln | 21.2 |
| Vehi | icle LOS | E | | , , , , | | | |
| Bic | cycle Results | | | | | | |
| Percent Occupied Parking 0 | | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 1082 | | | ffective W | | 14 |
| Bicy | rcle LOS Score | 7.07 | | Bicycle E | ffective S | peed Factor | 4.42 |
| Bicycle LOS F | | | | | | | |
| Fac | cility Results | · | | | | | |
| | | llower Density, followers, | /mi/ln | | | LC | os established |
| | 1 | 21.2 | | | | E | |

| | | | HCS7 Two- | Lane | Highv | vay Re | eport | |
|-------|---------------------------|----------------------|----------------------|---------|-----------------------------------|-------------------------|--------------------|--------------------------------|
| Pro | ject Information | on | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | | SR001_US-70 (Rural |) | Units | | | U.S. Customary |
| | | | | Segr | nent 1 | | | |
| Vel | hicle Inputs | | | | | | | |
| Segi | ment Type | | Passing Constrained | l | Length, f | t | | 22276 |
| Lane | e Width, ft | | 12 | | | · Width, ft | ī | 4 |
| Spe | ed Limit, mi/h | | 55 | | Access P | oint Dens | ity, pts/mi | 16.0 |
| De | mand and Capa | acity | | | | | | |
| Dire | ctional Demand Flow | Rate, veh/h | 512 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | | Total True | cks, % | | 5.00 |
| Segi | ment Capacity, veh/h | | 1700 | | Demand | /Capacity | (D/C) | 0.30 |
| Int | ermediate Resu | ılts | | | | | | |
| Segi | ment Vertical Class | | 2 | | Free-Flov | w Speed, | mi/h | 56.7 |
| Spe | ed Slope Coefficient | | 3.14396 | | Speed Po | Speed Power Coefficient | | 0.47979 |
| PF S | lope Coefficient | | -1.49758 | | PF Power Coefficient | | ent | 0.67378 |
| In Pa | assing Lane Effective | Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 5.8 |
| %lm | proved % Followers | | 0.0 | | % Improved Avg Speed | | Speed | 0.0 |
| Sul | bsegment Data | | | | | | | • |
| # | Segment Type | | Length, ft | Ra | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 22276 | - | | | - | 54.6 |
| Vel | hicle Results | | | | | | | • |
| Avei | rage Speed, mi/h | | 54.6 | | Percent F | ollowers, | % | 61.5 |
| | ment Travel Time, mir | nutes | 4.64 | | Follower Density, followers/mi/ln | | followers/mi/ln | 5.8 |
| Vehi | icle LOS | | С | | | | | |
| Bic | ycle Results | | | | | | | |
| Perc | ent Occupied Parking |] | 0 | | Pavemen | t Conditi | on Rating | 4 |
| Flow | v Rate Outside Lane, v | veh/h | 512 | | Bicycle Effective Width, ft | | /idth, ft | 20 |
| Bicy | cle LOS Score | | 4.57 | | Bicycle Effective Speed Factor | | peed Factor | 4.79 |
| Bicy | cle LOS | | E | | | | | |
| Fac | cility Results | | | | | | | |
| | т | Follower | Density, followers/n | ni/ln | LOS | | S | |
| | 1 | | 5.8 | | | | C | |
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| | | HCS7 Two-La | ne High | way Re | eport | |
|-----------------------------------|--------------------|--------------------------------|-----------------------------|-----------------------------------|--------------------|---------------------|
| Project Inform | mation | | | | | |
| Analyst | | TCG | Date | | | 6/20/2022 |
| Agency | | TCG | Analysi | Year | | 2022 |
| Jurisdiction | | Dickson County | Time A | nalyzed | | Existing |
| Project Description | | SR001_US-70(Rural Arterial) | Units | | | U.S. Customary |
| | | Se | egment 1 | | | |
| Vehicle Input | s | | | | | |
| Segment Type | | Passing Constrained | Length, | ft | | 30202 |
| Lane Width, ft | | 12 | Should | er Width, f | t | 3 |
| Speed Limit, mi/h | | 55 | Access | Point Dens | sity, pts/mi | 20.0 |
| Demand and | Capacity | | | | | |
| Directional Deman | d Flow Rate, veh/h | 600 | Opposi | ng Deman | d Flow Rate, veh/h | - |
| Peak Hour Factor | | 0.92 | Total Tr | ucks, % | | 6.00 |
| Segment Capacity, | veh/h | 1700 | Deman | Demand/Capacity (D/C) | | 0.35 |
| Intermediate | Results | | | | | <u>'</u> |
| Segment Vertical C | ilass | 2 | Free-Flo | w Speed, | mi/h | 54.8 |
| Speed Slope Coeffi | icient | 3.11550 | Speed I | Power Coe | fficient | 0.47234 |
| PF Slope Coefficier | nt | -1.51195 | PF Pow | PF Power Coefficient | | 0.66979 |
| In Passing Lane Effe | ective Length? | No | Total Se | Total Segment Density, veh/mi/ln | | 7.5 |
| %Improved % Follo | owers | 0.0 | % Impr | % Improved Avg Speed | | 0.0 |
| Subsegment | Data | | | | | • |
| # Segment Typ | pe | Length, ft | Radius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | | 30202 | - | | - | 52.6 |
| Vehicle Resul | ts | | | | | |
| Average Speed, mi | /h | 52.6 | Percent | Percent Followers, % | | 65.8 |
| Segment Travel Tin | | 6.53 | | Follower Density, followers/mi/ln | | 7.5 |
| Vehicle LOS | | С | | | | |
| Bicycle Result | ts | | | | | • |
| Percent Occupied Parking 0 | | Paveme | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 600 | | | Bicycle Effective Width, ft | | 15 | |
| Bicycle LOS Score 5.84 | | • | | peed Factor | 4.79 | |
| Bicycle LOS | | F | - | | | |
| Facility Result | ts | | | | | |
| Т | | Density, followers/mi/l | n | LOS | | |
| 1 | | 7.5 | | C | | |

| Project Information Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001 Hensiee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East ———————————————————————————————————— | | HCS7 Multilane | Highway Report | |
|--|--|---------------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description \$R001_Henslee Drive Units U.S. Customary Direction 1 Geometric Data East Number of Lanes (N). In 2 Terrain Type Rolling Segment Length (L). ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h \$2.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (ILCs), ft 6 Median Type TWLTL Total Lateral Clearance (ILCs), ft 12 Direction 1 Adjustment Factor All Familiar Final Speed Adjustment Factor (SAF) 1.000 Diriver Population SAF 1.000 Final Capacity Adjustment Factor (SAF) 1.000 Diriver Population CAF 841 Heavy Vehicle Adjustment Factor (SAF) 1.000 Direction 1 Demand and Capacity Dir | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_Henslee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), It - Percent Grade, % - Rolling Segment Length (L), It - Segment (L), It - Segment (L), It - Segment Segment Segment (L), It - Segment Seg | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR001_Henslee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Regilling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Resulting Segment Length (L), ft - Percent Grade, % - Resulting Segment Length (L), ft - Percent Grade, % - Resulting Segment Length (L), ft - Percent Grade, % - Resulting Segment Length (L), ft - Resulting Segment Length, mil - Resulting Segment Length, mil - Resulting Segment Length, mil - Resulting Segment Segment (L), ft - Resulting Segment Segm | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h Adjustment Factor Direction 1 Adjustment Factor Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (Fitv) 0.847 Pask Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 540 Total Trucks (SUT), % - Adjusted Capacity (cadj, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj, pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S). mi/h 44.5 Total Lateral Clearance Adj. (ftuc) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) 8 Access Point Density Adjustment (ftw) 7.5 Effective Speed Factor (Si) 4.42 Effective Width of Volume (Wo), ft 86 Effective Width of Volume (Wo), ft 87 Effective Width of Volume (Wo), ft 88 | Project Description | SR001_Henslee Drive | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (FIV) 0.847 Peak Hour Factor 0.992 Flow Rate (Vp), pc/hv/ln 540 Total Trucks, % 9.00 Capacity (c), pc/hv/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (fixv) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fM) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % | Direction 1 | East | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (FIV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hvln 540 Total Trucks, % 9.00 Capacity (Cap), pc/hvln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cad)), pc/hvln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Direction 1 Speed Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (ftM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (ftM) 0.0 Level of Service (LOS) B Total Capacity (Capacity (Cap | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h 52.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (FFS), mi/h 44.5 Total Lateral Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance (TLC), ft 12 Pree-Flow Speed (SAF) 1.000 Final Clearance Adj. (Fluc) Final Clearance Adj. (Fluc) Final Clearance Adj. (Fluc) Final Clearance Adj. (Fluc) Final Clearance Adj. Final Clearance Final Clearance Final Clearance | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Direction 1 Adjustment Factor Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 7.5 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 12 Free-Flow Speed (FFS), mi/h 44.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (Finv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Direction 1 Speed And Jensity 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLc) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Free-Flow Speed (FFS), mi/h 44.5 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Ww), ft 18 Bicyle LOS Score (BLOS) 4.73 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (S1) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fl.LC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Free-Flow Speed (FFS), mi/h | 44.5 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ft.LC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (fHV) Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and CapacityVolume(V) veh/h841Heavy Vehicle Adjustment Factor (fHV)0.847Peak Hour Factor0.92Flow Rate (Vp), pc/h/ln540Total Trucks, %9.00Capacity (c), pc/h/ln1900Single-Unit Trucks (SUT), %-Adjusted Capacity (cadj), pc/h/ln1900Tractor-Trailers (TT), %-Volume-to-Capacity Ratio (v/c)0.28Direction 1 Speed and DensityLane Width Adjustment (fLW)0.0Average Speed (S), mi/h44.5Total Lateral Clearance Adj. (fLLC)0.0Density (D), pc/mi/ln12.1Median Type Adjustment (fM)0.0Level of Service (LOS)BAccess Point Density Adjustment (fA)7.5BDirection 1 Bicycle LOSFlow Rate in Outside Lane (vol.),veh/h457Effective Speed Factor (St)4.42Effective Width of Volume (Ww), ft18Bicyle LOS Score (BLOS)4.73 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 841 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (fLw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 540 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLc) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Direction 1 Demand and Cap | acity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLc) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Volume(V) veh/h | 841 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ft.LC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL), veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Peak Hour Factor | 0.92 | Flow Rate (Vp), pc/h/ln | 540 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.28 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (ftLc) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) O.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) O.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) O.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 44.5 Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.28 |
| Total Lateral Clearance Adj. (fLLC) 0.0 Density (D), pc/mi/ln 12.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) B Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 44.5 |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 12.1 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | В |
| Flow Rate in Outside Lane (vOL),veh/h 457 Effective Speed Factor (St) 4.42 Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Access Point Density Adjustment (fA) | 7.5 | | |
| Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 18 Bicyle LOS Score (BLOS) 4.73 | Flow Rate in Outside Lane (vol.),veh/h | 457 | Effective Speed Factor (St) | 4.42 |
| Average Effective Width (We), ft 24 Bicycle Level of Service (LOS) E | Effective Width of Volume (Wv), ft | 18 | · | 4.73 |
| | Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | E |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 44.5 | | |
| Direction 2 Adjustment Fact | tors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 453 | Heavy Vehicle Adjustment Factor (fhv) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _P), pc/h/ln | 290 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.15 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 44.5 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 6.5 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | - | | |
| Flow Rate in Outside Lane (vOL),veh/h | 457 | Effective Speed Factor (St) | 4.42 |
| Effective Width of Volume (Wv), ft | 18 | Bicyle LOS Score (BLOS) | 4.73 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | E |
| | | | |

HCSTM Multilane Version 7.9.6 SR001_1555(mslink).xuf Generated: 02/01/2023 14:19:33

| Project Information | | HCS7 Multilane | Highway Report | |
|--|--|---------------------|--|----------------|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001 Henslee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), in 2 Terrain Type Region Rolling Segment Length (L), ft - Percent Grade, % | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_Henslee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi 20.0 Lane Width, ft 12 Lene Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hv/ln 402 Total Trucks, % 9.00 Capacity (O, pc/hv/ln 1900 Single-Unit Trucks (SUT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL), veh/h 340 Effective Speed Factor (Si) 3.84 Effective Speed Factor (Si) 3.84 Effective Width of Volume (Wo), ft 144 Bicyle LOS Score (BLOS) 6.05 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR001 Henslee Drive Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Percent Grade, % - Rolling Segment Length (L), ft - Rolling Rolling Segment Length (L), ft - Rolling Segm | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TwitTL Total Lateral Clearance (TLC), ft 8 Tree-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (finv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (Cp, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cad), pc/h/ln 1900 Tractor-Trailiers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fiw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fix) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 340 Effective Speed Factor (Si) 3.84 Effective Width of Volume (Wv), ft 14 Bicycle LOS Score (BLOS) 6.05 | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 East Number of Lanes (N), In 2 Terrain Type Region Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - 20.0 Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Total Lateral Clearance (TLC), ft 8 Final Speed Adjustment Factor (SAF) 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Triver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Triver Population CAF 1.000 Final Capacity Adjustment Factor (Final Capacity Capacity Capacity (Safe) 1.000 Triver Population CAF 1.000 Total Trucks (SUT), 92 Flow Rate (Yp), pc/h/ln 1.000 Triver Factor Trivers (SUT), % - Adjusted Capacity (Cap), pc/h/ln 1.000 Triver Trivers (TT), % - Volume-to-Capacity Ratio (V/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (ft.cc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (ft.w) 0.0 Level of Service (LOS) A Access Point Density Adjustment (ft.) 5.0 Flow Rate in Outside Lane (vol.), veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 5.05 | Project Description | SR001_Henslee Drive | Units | U.S. Customary |
| Number of Lanes (N), in 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.992 Flow Rate (Vp), pc/hVln 402 Total Trucks, % 9.00 Capacity (c), pc/hVln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/hVln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLIC) 0.9 Density (D), pc/mVln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fM) 0.0 Level of Service (LOS) A Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) Driver Population All Familiar Final Capacity Adjustment Factor (CAF) Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cargl), pc/h/ln 1900 Traction-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (fluv) 0.0 Average Speed (S), mi/h 10.3 Median Type Adjustment (flw) 0.0 Access Point Density Adjustment (flw) 0.0 Evel of Service (LOS) Access Point Density Adjustment (flw) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 86 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 605 | Direction 1 | East | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (FAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fixiv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (Cadj), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Volume-to-Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fixiv) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (My) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Ww), ft 14 Bicyle LOS Score (BLOS) 6.05 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 20.0 Lane Width, ft 12 Left-Side Lateral Clearance (ILCR), ft 6 Median Type TWLTL Total Lateral Clearance (ILCR), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fiv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hyln 402 Total Trucks, % 9.00 Capacity (c), pc/hyln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/hyln 1900 Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (ft.Lc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fM) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Ww), ft 14 Bicyle LOS Score (BLOS) 6.05 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLtC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 20.0 |
| Free-Flow Speed (FFS), mi/h 39.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fhv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fl.t.c) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Free-Flow Speed (FFS), mi/h | 39.1 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (w/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Direction 1 Adjustment Facto | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (ftLc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 626 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 402 Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fl.w) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fl.tc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Direction 1 Demand and Cap | acity | | |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (ftLtc) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Volume(V) veh/h | 626 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 10.3 Average Speed (S), pc/mi/ln 10.3 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) | Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 402 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.21 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 39.1 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.21 |
| Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 10.3 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) A Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 39.1 |
| Access Point Density Adjustment (fA) 5.0 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 10.3 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 340 Effective Speed Factor (St) 3.84 Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Flow Rate in Outside Lane (vOL),veh/h Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Access Point Density Adjustment (fA) | 5.0 | | |
| Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 14 Bicyle LOS Score (BLOS) 6.05 | Flow Rate in Outside Lane (vol.),veh/h | 340 | Effective Speed Factor (St) | 3.84 |
| Average Effective Width (We), ft 14 Bicycle Level of Service (LOS) F | Effective Width of Volume (Wv), ft | 14 | · | 6.05 |
| | Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 20.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Free-Flow Speed (FFS), mi/h | 39.1 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Cap | pacity | · | |
| Volume(V) veh/h | 418 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 268 |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.14 |
| Direction 2 Speed and Densi | ity | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 39.1 |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 6.9 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 5.0 | | |
| Direction 2 Bicycle LOS | • | | |
| Flow Rate in Outside Lane (vOL),veh/h | 340 | Effective Speed Factor (St) | 3.84 |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | 6.05 |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F |

HCSTM Multilane Version 7.9.6 SR001_1556-1557(mslink).xuf Generated: 02/01/2023 14:21:04

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_E.College St/US-70 Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), in 2 Terrain Type Rolling Segment Length (I), ft - Percent Grade, % - Percent Grade, % - Rolling Segment Length (I), ft - Percent Grade, % - Rolling Segment Length (I), ft - Percent Grade, % - Rolling Segment Length (I), ft - Percent Grade, % - Rolling Segment Length (I), ft - Percent Grade, % - | | HCS7 Multilane | Highway Report | |
|--|--|----------------|--|----------------|
| Agency | Project Information | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description SR001_ECollege St/US-70 Units U.S. Customary Project Description SR001_ECollege St/US-70 Units U.S. Customary Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % Measured or Base Free-Flow Speed Base Grade Length, mi Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (ICR), ft 6 Median Type TWLTL Total Lateral Clearance (ICR), ft 10 Pree-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (ICR), ft 10 Direction 1 Adjustment Factors Direction 1 Adjustment Factor Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (C.) pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 2042 Tractor-Trailers (TI), % - Volume-to-Capacity Ratio (V/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ft) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D.), pc/mi/ln 6.1 Median Type Adjustment (ft) 0.0 Level of Service (LOS) A Access Point Density Adjustment (ft) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (VoL), veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wo), ft 16 Bicyle LOS Score (BLOS) 5.62 | Analyst | TCG | Date | 9/28/2022 |
| Project Description SR001_ECollege St/US-70 Units U.S. Customary (Multi) Direction 1 Geometric Data Direction 1 East Percent Grade, % Percent Grade, % | Agency | TCG | Analysis Year | 2022 |
| Direction 1 Geometric Data Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft Percent Grade, % Percent Grade, Percent Grade, % Percent Grade, Percent Gr | Jurisdiction | Dickson County | Time Analyzed | Existing |
| Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Total Lateral Clearance (TLC), ft 10 Final Capacity Adjustment Factor (SAF) 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Final Capacity Adjustment Factor (FhV) 0.847 Peak Hour Factor 498 Heavy Vehicle Adjustment Factor (FhV) 0.847 Peak Hour Factor 992 Flow Rate (Vp), pc/hv/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cag), pc/hv/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (ftLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fth) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wo), ft 16 | Project Description | | Units | U.S. Customary |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (FHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 52.1 Median Type Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fM) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 271 Effective Speed Factor (Si) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Direction 1 Geometric Data | | | |
| Segment Length (L), ft | Direction 1 | East | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (cy), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Volume-to-Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (My) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Ww), ft 16 Bicyle LOS Score (BLOS) 5.62 | Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (ILCR), ft 6 Median Type TWLTL Total Lateral Clearance (ILCR), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fthv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D.), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Ww), ft 16 Bicyle LOS Score (BLOS) 5.62 | Segment Length (L), ft | - | Percent Grade, % | - |
| Lane Width, ft 12 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fitv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c, pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (fluw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fl.LC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 10 Free-Flow Speed (FFS), mi/h 52.1 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Driver Population CAF 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c, pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Base Free-Flow Speed (BFFS), mi/h | 60.0 | Access Point Density, pts/mi | 30.0 |
| Free-Flow Speed (FFS), mi/h Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Priver Population SAF 1.000 Priver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (First) 820 Total Trucks, 9 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), 8 - Adjusted Capacity (Cadj), pc/h/ln 2042 Tractor-Trailers (TT), 8 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fluc) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (flx) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fluc) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 10 |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHv) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Free-Flow Speed (FFS), mi/h | 52.1 | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ftW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Direction 1 Adjustment Factor | ors | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (ftLC) Median Type Adjustment (fM) 0.0 Average Speed (S), mi/h 52.1 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vot), veh/h 271 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Direction 1 Demand and Capacity Volume(V) veh/h | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Volume(V) veh/h 498 Heavy Vehicle Adjustment Factor (fHV) 0.847 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Driver Population CAF | 1.000 | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 320 Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Direction 1 Demand and Cap | acity | | - |
| Total Trucks, % 9.00 Capacity (c), pc/h/ln 2042 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (ft.t.c) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Volume(V) veh/h | 498 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 2042 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (ftLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL), veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 320 |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.16 Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 2042 |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2042 |
| Lane Width Adjustment (fLW) 0.0 Average Speed (S), mi/h 52.1 Total Lateral Clearance Adj. (fLLC) 0.4 Density (D), pc/mi/ln 6.1 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.16 |
| Total Lateral Clearance Adj. (fLLC) Median Type Adjustment (fM) O.0 Level of Service (LOS) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h Effective Width of Volume (Wv), ft 16 Density (D), pc/mi/ln 6.1 A Evel of Service (LOS) A Effective Speed Factor (St) 4.79 5.62 | Direction 1 Speed and Densi | ty | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) A Access Point Density Adjustment (fA) T.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) A A A Bicyle LOS Score (BLOS) A Bicyle LOS Score (BLOS) | Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 52.1 |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Total Lateral Clearance Adj. (fLLC) | 0.4 | Density (D), pc/mi/ln | 6.1 |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Access Point Density Adjustment (fA) | 7.5 | | |
| Flow Rate in Outside Lane (vOL),veh/h 271 Effective Speed Factor (St) 4.79 Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Direction 1 Bicycle LOS | | | |
| Effective Width of Volume (Wv), ft 16 Bicyle LOS Score (BLOS) 5.62 | Flow Rate in Outside Lane (vol.),veh/h | 271 | Effective Speed Factor (St) | 4.79 |
| | | | · | |
| | Average Effective Width (We), ft | 20 | Bicycle Level of Service (LOS) | F |

| Direction 2 Geometric Data | | | | | | |
|---------------------------------------|-------------------------------------|--|---------|--|--|--|
| Direction 2 | Opposite | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | |
| Base Free-Flow Speed (BFFS), mi/h | 60.0 | Access Point Density, pts/mi | 30.0 | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 10 | | | |
| Free-Flow Speed (FFS), mi/h | 52.1 | | | | | |
| Direction 2 Adjustment Fact | ors | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | |
| Driver Population CAF | 1.000 | | | | | |
| Direction 2 Demand and Cap | pacity | <u> </u> | | | | |
| Volume(V) veh/h | 268 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 | | | |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 172 | | | |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 2042 | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2042 | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.08 | | | |
| Direction 2 Speed and Densi | ity | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 52.1 | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.4 | Density (D), pc/mi/ln | 3.3 | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А | | | |
| Access Point Density Adjustment (fA) | 7.5 | | | | | |
| Direction 2 Bicycle LOS | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 271 | Effective Speed Factor (St) | 4.79 | | | |
| Effective Width of Volume (Wv), ft | 16 | Bicyle LOS Score (BLOS) | 5.62 | | | |
| Average Effective Width (We), ft | 20 Bicycle Level of Service (LOS) F | | | | | |

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| | HCS7 Multilane | Highway Report | | | | | |
|---|---------------------------|--|----------------|--|--|--|--|
| Project Information | | | | | | | |
| Analyst | TCG | Date | 9/28/2022 | | | | |
| Agency | TCG | Analysis Year | 2022 | | | | |
| Jurisdiction | Dickson County | Time Analyzed | Existing | | | | |
| Project Description | SR001_E.College St(Multi) | Units | U.S. Customary | | | | |
| Direction 1 Geometric Data | | | | | | | |
| Direction 1 | East | | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 | | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 | | | | |
| Free-Flow Speed (FFS), mi/h | 43.6 | | | | | | |
| Direction 1 Adjustment Facto | ors | | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | |
| Driver Population CAF | 1.000 | | | | | | |
| Direction 1 Demand and Cap | acity | | | | | | |
| Volume(V) veh/h | 737 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 | | | | |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 473 | | | | |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 | | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.25 | | | | |
| Direction 1 Speed and Densi | ty | | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 43.6 | | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 10.8 | | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | A | | | | |
| Access Point Density Adjustment (fA) | 7.5 | | | | | | |
| Direction 1 Bicycle LOS | | | | | | | |
| Flow Rate in Outside Lane (vol.),veh/h | 401 | Effective Speed Factor (St) | 4.42 | | | | |
| Effective Width of Volume (W _v), ft | 14 | Bicyle LOS Score (BLOS) 6.57 | | | | | |
| Average Effective Width (We), ft | 14 | Bicycle Level of Service (LOS) | F | | | | |

| Direction 2 Geometric Data | | | | | | | |
|---------------------------------------|-------------------------------------|--|---------|--|--|--|--|
| Direction 2 | Opposite | | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | |
| Base Free-Flow Speed (BFFS), mi/h | 52.0 | Access Point Density, pts/mi | 30.0 | | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 | | | | |
| Free-Flow Speed (FFS), mi/h | 43.6 | | | | | | |
| Direction 2 Adjustment Fact | ors | | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | |
| Driver Population CAF | 1.000 | | | | | | |
| Direction 2 Demand and Cap | pacity | <u> </u> | | | | | |
| Volume(V) veh/h | 680 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 | | | | |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 436 | | | | |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 1900 | | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.23 | | | | |
| Direction 2 Speed and Densi | ty | | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 43.6 | | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 10.0 | | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А | | | | |
| Access Point Density Adjustment (fA) | 7.5 | | | | | | |
| Direction 2 Bicycle LOS | | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 401 | Effective Speed Factor (St) | 4.42 | | | | |
| Effective Width of Volume (Wv), ft | 14 | Bicyle LOS Score (BLOS) | · | | | | |
| Average Effective Width (We), ft | 14 Bicycle Level of Service (LOS) F | | | | | | |

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| Project Information | | HCS7 Multilane | Highway Report | |
|---|--|----------------|----------------|--|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description \$R001_E.College St Units U.S. Customary Direction 1 East Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 60.0 Access Point Density, pts/mi 30.0 Lane Width, ft 12 Left-Side Lateral Clearance (ICR), ft 6 Median Type TWLTL Total Lateral Clearance (ITLG), ft 10 Free-Flow Speed (FFS), mi/h 52.1 10 Direction 1 Adjustment Factors Direction 1 Adjustment Factors Direction 1 Adjustment Factors 1.000 Priver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity | | | | |

| Direction 2 Geometric Data | | | | | | | |
|---------------------------------------|--------------|--|---------|--|--|--|--|
| Direction 2 | Opposite | | | | | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | |
| Segment Length (L), ft | - | Percent Grade, % | - | | | | |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | |
| Base Free-Flow Speed (BFFS), mi/h | 60.0 | Access Point Density, pts/mi | 30.0 | | | | |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 10 | | | | |
| Free-Flow Speed (FFS), mi/h | 52.1 | | | | | | |
| Direction 2 Adjustment Fact | ors | | | | | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | |
| Driver Population CAF | 1.000 | | | | | | |
| Direction 2 Demand and Ca | pacity | | | | | | |
| Volume(V) veh/h | 268 | Heavy Vehicle Adjustment Factor (fHV) | 0.847 | | | | |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 172 | | | | |
| Total Trucks, % | 9.00 | Capacity (c), pc/h/ln | 2042 | | | | |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2042 | | | | |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.08 | | | | |
| Direction 2 Speed and Dens | ity | | | | | | |
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 52.1 | | | | |
| Total Lateral Clearance Adj. (fLLC) | 0.4 | Density (D), pc/mi/ln | 3.3 | | | | |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А | | | | |
| Access Point Density Adjustment (fA) | 7.5 | | | | | | |
| Direction 2 Bicycle LOS | | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 271 | Effective Speed Factor (St) | 4.79 | | | | |
| Effective Width of Volume (Wv), ft | 16 | Bicyle LOS Score (BLOS) | 5.62 | | | | |
| Average Effective Width (We), ft | 20 | Bicycle Level of Service (LOS) F | | | | | |
| | | I | 1 | | | | |

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| | | HCS7 Two | o-Lan | e Highv | way Re | eport | |
|-----------------------------------|---|------------------------|--------------------------------|--------------|-----------------------------------|--------------------|--------------------------------|
| Pro | oject Information | | | | | | |
| Ana | alyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juri | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ject Description | SR001_Broadway | Street | Units | | | U.S. Customary |
| | | | Seg | ment 1 | | | |
| Ve | hicle Inputs | | | | | | |
| Seg | ıment Type | Passing Constrain | ned | Length, | ft | | 24647 |
| | e Width, ft | 12 | | | r Width, f | t | 3 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 20.0 |
| De | emand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 512 | | Opposin | ıg Deman | d Flow Rate, veh/h | - |
| Pea | k Hour Factor | 0.92 | | Total Tru | ıcks, % | | 5.00 |
| Seg | ment Capacity, veh/h | 1700 | | Demand | I/Capacity | (D/C) | 0.30 |
| Int | termediate Results | | | | | | |
| Seg | ment Vertical Class | 2 | 2 | | w Speed, | mi/h | 26.9 |
| Spe | ed Slope Coefficient | 4.45588 | | Speed P | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficient | -1.60905 | -1.60905 | | r Coefficie | ent | 0.54851 |
| In P | Passing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 14.4 |
| %ln | nproved % Followers | 0.0 | 0.0 | | % Improved Avg Speed | | 0.0 |
| Su | bsegment Data | <u> </u> | | | | | |
| # | Segment Type | Length, ft | Ra | adius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 24647 | - | | | - | 23.9 |
| Ve | hicle Results | | | | | | , |
| Ave | erage Speed, mi/h | 23.9 | | Percent | Followers, | % | 67.2 |
| Seg | ment Travel Time, minutes | 11.74 | | | Follower Density, followers/mi/ln | | 14.4 |
| Veh | nicle LOS | D | | | | | |
| Bio | cycle Results | | | | | | |
| Perd | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 512 | | Bicycle E | Bicycle Effective Width, ft | | 15 | | |
| Bicycle LOS Score 4.80 | | Bicycle E | Bicycle Effective Speed Factor | | 3.39 | | |
| Вісу | /cle LOS | E | | | | | |
| Fac | cility Results | | | | | | |
| | T Follow | ver Density, followers | s/mi/ln | | | LO | os |
| | 1 | 14.4 | | | | D |) |
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| | HCS7 Two-l | Lane | Highv | way Re | eport | |
|--|--|----------|-----------------------------------|-------------|--------------------|---------------------|
| Project Information | | | | | | |
| Analyst | TCG | | Date | | | 6/20/2022 |
| Agency | TCG | | Analysis | Year | | 2022 |
| Jurisdiction | Dickson County | | Time An | alyzed | | Existing |
| Project Description | 05693_Pamona Rd/l W.Grab Creek/Grab Rd | | Units | | | U.S. Customary |
| | | Segn | nent 1 | | | |
| Vehicle Inputs | | | | | | |
| Segment Type | Passing Constrained | <u> </u> | Length, | ft | | 3037 |
| Lane Width, ft | 10 | | Shoulde | r Width, ft | i | 1 |
| Speed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 45.0 |
| Demand and Capacity | | | | | | |
| Directional Demand Flow Rate, veh/h | 105 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Segment Capacity, veh/h | 1700 | | Demand | /Capacity | (D/C) | 0.06 |
| Intermediate Results | • | | | | | |
| Segment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 19.4 |
| Speed Slope Coefficient | 5.06533 | | Speed Po | ower Coef | fficient | 0.41622 |
| PF Slope Coefficient | -1.47695 | | PF Powe | r Coefficie | ent | 0.54415 |
| In Passing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 2.0 |
| %Improved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Subsegment Data | | | | | | |
| # Segment Type | Length, ft | Rad | lius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 3037 | - | | | - | 18.8 |
| Vehicle Results | | | | | | |
| Average Speed, mi/h | 18.8 | | Percent | Followers, | % | 35.2 |
| Segment Travel Time, minutes | 1.83 | | Follower Density, followers/mi/ln | | followers/mi/ln | 2.0 |
| Vehicle LOS | A | | | | | |
| Bicycle Results | | | | | | |
| Percent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 105 Bicycle Effective Width, ft 17 | | | | | | 17 |
| Bicycle LOS Score 3.28 Bicycle Effective Speed Factor 3.39 | | | | | | 3.39 |
| Bicycle LOS | С | | | | | |
| Facility Results | | | | | | |
| T Followe | r Density, followers/m | ni/ln | | | LC | os |

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| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | |
|-----------------------------------|--|---------------------|--------------|---------------|--|--------------------|--------------------------------|
| Pro | oject Information | | _ | | | | |
| Ana | llyst | TCG | | Date | | | 6/20/2022 |
| Age | • | TCG | | Analysis | Year | | 2022 |
| | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ject Description | 05688_Skyline C | ir | Units | | | U.S. Customary |
| | | | Seg | ment 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ined | Length, f | ft | | 2529 |
| | e Width, ft | 12 | | _ | r Width, f | i | 1 |
| | ed Limit, mi/h | 30 | | | | ity, pts/mi | 36.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 122 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| | k Hour Factor | 0.92 | | Total Tru | | | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.07 |
| | ermediate Results | | | | , , | | |
| Sea | ment Vertical Class | 2 | | Free-Flov | Free-Flow Speed, mi/h | | 21.6 |
| _ | ed Slope Coefficient | 4.88735 | | | ower Coe | | 0.41622 |
| | Slope Coefficient | -1.51825 | | , | r Coefficie | | 0.55912 |
| In Pa | assing Lane Effective Length? | No | | Total Sec | gment De | nsity, veh/mi/ln | 2.2 |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Ra | ndius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 2529 | - | | | - | 20.6 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 20.6 | | Percent I | Followers. | % | 37.4 |
| | ment Travel Time, minutes | 1.39 | | _ | Percent Followers, % Follower Density, followers/mi/ln | | 2.2 |
| | icle LOS | A | | | | | |
| Bic | cycle Results | | | | | | |
| | cent Occupied Parking | 0 | | Pavemen | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 122 | | | | | Pavement Condition Rating Bicycle Effective Width, ft | | 19 |
| Bicycle LOS Score 3.00 | | | | - | Bicycle Effective Speed Factor | | 3.39 |
| Bicy | rcle LOS | С | | | | | |
| Fac | cility Results | | | | | | |
| | - | r Density, follower | rs/mi/ln | | | LC | os |
| | 1 | 2.2 | • | | | Α | |
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| | | HCS7 Two | -Lane | Highv | vay Re | eport | |
|-------------------------------|----------------------------------|------------------------|----------|-----------------------------------|----------------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | 05686_Cowan Rd, Rd. | /Bar-B-Q | Units | | | U.S. Customary |
| | | | Segn | nent 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 3993 |
| Lane | e Width, ft | 11 | | Shoulde | r Width, f | t | 1 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 16.0 |
| De | mand and Capacity | | | <u>'</u> | | | |
| Dire | ectional Demand Flow Rate, veh/h | 155 | | Opposin | g Deman | d Flow Rate, veh/h | T- |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | (D/C) | 0.09 |
| Int | ermediate Results | | | | | | · |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 26.0 |
| Spe | ed Slope Coefficient | 4.53139 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficient | -1.49110 | | PF Powe | r Coefficie | ent | 0.59797 |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 2.4 |
| %lm | nproved % Followers | 0.0 | 0.0 | | % Improved Avg Speed | | 0.0 |
| Su | bsegment Data | | | • | | | · |
| # | Segment Type | Length, ft | Rac | lius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 3993 | - | | | - | 24.6 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 24.6 | | Percent | Followers | . % | 38.7 |
| Seg | ment Travel Time, minutes | 1.84 | | Follower Density, followers/mi/ln | | followers/mi/ln | 2.4 |
| Veh | icle LOS | А | | | | | |
| Bic | cycle Results | | | <u>'</u> | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h | | 155 | | | ffective V | /idth, ft | 15 |
| Bicycle LOS Score 3.80 | | | | Bicycle E | ffective S | peed Factor | 3.39 |
| Bicycle LOS D | | | | | | | |
| Fac | cility Results | | | | | | |
| | T Followe | r Density, followers | /mi/ln | | | LC | OS . |
| 1 2.4 | | | | A | | | |

| | HCS7 Two-La | ane | Highv | vay Re | eport | |
|---|---|--------|-----------------------------------|-------------|--------------------|---------------------|
| Project Information | | | | | | |
| Analyst | TCG | | Date | | | 6/20/2022 |
| Agency | TCG | | Analysis | Year | | 2022 |
| Jurisdiction | Dickson County | | Time An | alyzed | | Existing |
| Project Description | 05685_N.Charlotte/ Westfield Rd/Old Cha Pk. | rlotte | Units | | | U.S. Customary |
| | S | egm | ent 1 | | | |
| Vehicle Inputs | | | | | | |
| Segment Type | Passing Constrained | | Length, 1 | t | | 3400 |
| Lane Width, ft | 11 | | Shoulde | r Width, f | t | 2 |
| Speed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 60.0 |
| Demand and Capacity | • | | | | | • |
| Directional Demand Flow Rate, veh/h | 65 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Segment Capacity, veh/h | 1700 | | Demand | /Capacity | (D/C) | 0.04 |
| Intermediate Results | | | | | | • |
| Segment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 20.7 |
| Speed Slope Coefficient | 4.96016 | | Speed Po | ower Coe | fficient | 0.41622 |
| PF Slope Coefficient | -1.47569 | | PF Powe | r Coefficie | ent | 0.55671 |
| In Passing Lane Effective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 0.9 |
| %Improved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Subsegment Data | | | | | | |
| # Segment Type | Length, ft | Radi | ius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 3400 | 1- | | | - | 20.7 |
| Vehicle Results | | | | | | |
| Average Speed, mi/h | 20.7 | | Percent I | -ollowers, | . % | 27.6 |
| Segment Travel Time, minutes | 1.87 | | Follower Density, followers/mi/ln | | followers/mi/In | 0.9 |
| Vehicle LOS | А | | | | | |
| Bicycle Results | | | | | | • |
| Percent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 65 Bicycle Effective Width, ft 22 | | | | | | 22 |
| Bicycle LOS Score 2.06 Bicycle Effective Speed Factor 3.39 | | | | | | |
| Bicycle LOS | В | | | | | |
| Facility Results | | | | | | • |
| - | r Density, followers/mi/ | /ln | | | LC | ns |

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| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-----------------------------------|-----------------|--------------------------------|-------------------------|--------------------------|-------------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | ı | Date | | | 11/29/2022 |
| Age | ncy | | TCG | , | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | - | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 05684_Beasley Drive | ı | Units | | | U.S. Customary |
| | | | Se | egmo | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Seg | ment Type | | Passing Constrained | ı | Length, f | t | | 9118 |
| Lane | e Width, ft | | 12 | 9 | Shoulder | · Width, ft | t | 4 |
| Spe | ed Limit, mi/h | | 45 | , | Access P | oint Dens | ity, pts/mi | 5.0 |
| De | mand and | Capacity | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 837 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | | 0.92 | - | Total Tru | cks, % | | 3.00 |
| Seg | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.49 |
| Int | ermediate | Results | , | | | | | |
| Seg | ment Vertical (| Class | 2 | | Free-Flow Speed, mi/h | | | 48.6 |
| | ed Slope Coef | | 3.11550 | | | ower Coet | | 0.41622 |
| PF S | Slope Coefficie | nt | -1.43221 | ı | PF Powei | r Coefficie | ent | 0.69531 |
| In Pa | assing Lane Ef | fective Length? | No | - | Total Seg | ment De | nsity, veh/mi/ln | 13.1 |
| %lm | nproved % Foll | owers | 0.0 | 0.0 % Improved Avg Speed | | Speed | 0.0 | |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 9118 | - | | | - | 45.8 |
| Vel | hicle Resu | lts | | | | | | |
| Ave | rage Speed, m | i/h | 45.8 | ı | Percent F | ollowers, | . % | 71.8 |
| Seg | ment Travel Ti | me, minutes | 2.26 | ı | Follower Density, followers/mi/ln | | | 13.1 |
| Vehi | icle LOS | | D | | | | | |
| Bic | ycle Resul | ts | <u>'</u> | | | | | |
| Percent Occupied Parking 0 | | | | ı | Pavemen | ıt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 837 | | | E | Bicycle E | ffective W | /idth, ft | 20 | |
| Bicycle LOS Score 4.13 | | | | | Bicycle Effective Speed Factor 4.42 | | | 4.42 |
| Bicy | cle LOS | | D | | | | | |
| Fac | cility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | In | | | LO | S |
| | 1 | | | | | | | |
| | | varsity of Florida, All Pights | | | Norcion 7 | | | Ganaratad: 02/01/2022 12:11:40 |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | |
|-------------------------------|----------------------------------|---------------------------|---------|-----------------------------------|-----------------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ncy | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | 04608_Marshall S Drive | Stuart | Units | | | U.S. Customary |
| | | | Segn | nent 1 | | | |
| Ve | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 1177 |
| Lan | e Width, ft | 12 | | Shoulde | r Width, f | t | 5 |
| Spe | ed Limit, mi/h | 40 | | Access P | oint Dens | sity, pts/mi | 5.0 |
| De | mand and Capacity | | | | | | <u>'</u> |
| Dire | ectional Demand Flow Rate, veh/h | 240 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | Demand/Capacity (D/C) | | 0.14 |
| Int | ermediate Results | · | | | | | |
| Seg | ment Vertical Class | 1 | | Free-Flo | w Speed, | mi/h | 43.6 |
| Spe | ed Slope Coefficient | 2.86914 | | Speed Po | ower Coe | fficient | 0.41674 |
| PF S | Slope Coefficient | -1.50049 | | PF Powe | r Coefficie | ent | 0.69095 |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 2.4 |
| %ln | nproved % Followers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 1177 | - | | | - | 42.3 |
| Ve | hicle Results | | | | | | · |
| Ave | rage Speed, mi/h | 42.3 | | Percent | Followers | , % | 42.9 |
| Seg | ment Travel Time, minutes | 0.32 | | Follower Density, followers/mi/ln | | followers/mi/ln | 2.4 |
| Veh | icle LOS | А | | | | | |
| Bic | cycle Results | | | | | | |
| Percent Occupied Parking 0 | | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h | | 240 | | | ffective V | Vidth, ft | 22 |
| Bicycle LOS Score 2.99 | | | | Bicycle E | ffective S | peed Factor | 4.17 |
| Bicycle LOS C | | | | | | | |
| Fac | cility Results | | | | | | |
| | T Follows | er Density, followers | s/mi/ln | | | LC | OS . |
| 1 2.4 | | | | | A | | |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-------------------------------|-----------------|----------------------------------|-------------------------|-----------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | Ī | Date | | | 6/20/2022 |
| Age | ncy | | TCG | , | Analysis Year | | | 2022 |
| Juris | sdiction | | Dickson County | - | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 04529_Cowan Rd. | | Units | | | U.S. Customary |
| | | | Se | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Ti | Length, f | t | | 2265 |
| Lane | e Width, ft | | 12 | 9 | Shoulder | · Width, ft | i | 2 |
| Spe | ed Limit, mi/h | | 30 | , | Access P | oint Dens | ity, pts/mi | 30.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 278 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | 1- | Total Tru | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.16 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 2 | | Free-Flow Speed, mi/h | | | 23.8 |
| | ed Slope Coef | | 4.70937 | | Speed Power Coefficient | | | 0.41622 |
| PF S | Slope Coefficie | nt | -1.54818 | 1 | PF Power | r Coefficie | ent | 0.57433 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 6.8 |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 2265 | - | | | - | 21.5 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 21.5 | ı | Percent F | ollowers, | % | 52.4 |
| Segi | ment Travel Ti | me, minutes | 1.20 | 1 | Follower Density, followers/mi/ln | | | 6.8 |
| Vehi | icle LOS | | С | | <i>y.</i> | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | T i | Pavemen | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 278 | 1 | Bicycle Effective Width, ft | | | 14 | |
| Bicycle LOS Score 4.24 | | | 4.24 | ı | Bicycle Effective Speed Factor | | peed Factor | 3.39 |
| Bicy | Bicycle LOS D | | | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | In | | | LO | S |
| | 1 | | 6.8 | | | | С | |
| | | varsity of Florida, All Diabts I | | | o Varsian 7 | | | Congrated: 02/01/2023 13:00:18 |

| Analyst TCG Date 9/28/2022 Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description O4529 Beasley Dr (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (U, It - Percent Grade, % Measured or Base Free-Flow Speed Base Grade Length, mi Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (ILCR), ft 6 Median Type TWLTL Total Lateral Clearance (ILCR), ft 6 Median Type TWLTL Total Lateral Clearance (ILCR), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) velvh 659 Heavy Vehicle Adjustment Factor (FNP) 0.943 Peak Hour Factor 0.92 Flow Rate (IV.), p.c/hv/in 380 Total Trucks, % 3.00 Capacity (c.), p.c/hv/in 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), p.c/hv/in 1900 Direction 1 Speed and Density Lane Width Adjustment (fix) 1.9 Average Speed (S), mi/h 34.7 Direction 1 Speed and Density Lane Width Adjustment (fix) 0.9 Density (D), p.c/mi/in 11.0 Access Point Density Adjustment (fs) 258 Effective Speed Factor (5) 4.17 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.) veh/h 358 Effective Speed Factor (5) 4.17 | | HCS7 Multilane | Highway Report | | | | | | | |
|--|---------------------------------------|----------------|--|----------------|--|--|--|--|--|--|
| Agency TCG Analysis Year 2022 Jurisdiction Dickson County Time Analyzed Existing Project Description 04529 Beasley Dr (Multilane) Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Massured or Base Free-Flow Speed Base Grade Length, mi - Rolling Base Free-Flow Speed Base Grade Length, mi - Rolling Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (Fiv) 0.943 Peak Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 380 Total Tucks, % 3.00 Capacity (Cag), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cag), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (fiv) 0.9 Average Speed (S), mi/h 34.7 Tractor-Trailers (TT), % Density Adjustment (fix) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fut.) 0.9 Pensity (D.), pc/mi/ln 11.0 Median Type Adjustment (fix) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fut.) 0.9 Pensity (D.), pc/mi/ln 11.0 Median Type Adjustment (fix) 7.5 Direction 1 Bicycle LOS Final Capacity Speed Factor (Si) 4.17 Effective Width of Volume (Wv), ft 13 Bicycle LOS Score (BLOS) 4.77 | Project Information | | | | | | | | | |
| Jurisdiction Dickson County Time Analyzed Existing Project Description 04529_Beasley Dr (Multilane) Direction 1 Geometric Data Direction 1 North North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Median Type Time Flow Speed (BFFS), mi/h Speed (BFFS | Analyst | TCG | Date | 9/28/2022 | | | | | | |
| Project Description 04529_Beasley Dr (Multilane) Urits | Agency | TCG | Analysis Year | 2022 | | | | | | |
| Direction 1 Geometric Data Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (FN) 380 Total Trucks, % 3.00 Capacity (N), pc/h/ln 380 Total Trucks (SUT), % - Adjusted Capacity (C), pc/h/ln 1900 Tirection 1 Speed and Density Lane Width Adjustment (flw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance (LCR) Adjustment Factor (FN) 1.000 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (flx) 0.0 Level of Service (LOS) A Effective Speed Factor (Si) 4.17 Effective Speed Factor (Si) 4.77 | Jurisdiction | Dickson County | Time Analyzed | Existing | | | | | | |
| Direction 1 North Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (Hiv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/hyln 380 Total Trucks, % 3.00 Capacity (c.a.d.), pc/hyln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Cad.), pc/hyln 1900 Traction-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (ftuc) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (ftw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wo), ft 13 Bicyle LOS Score (BLOS) 4.77 | Project Description | | Units | U.S. Customary | | | | | | |
| Number of Lanes (N), In 2 Terrain Type Rolling Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (Hv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (Capi), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (flw) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fM) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Direction 1 Geometric Data | | | | | | | | | |
| Segment Length (L), ft - Percent Grade, % - Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.992 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Direction 1 | North | | | | | | | | |
| Measured or Base Free-Flow Speed Base Grade Length, mi - Base Free-Flow Speed (BFFS), mi/h 45.0 Access Point Density, pts/mi 30.0 Lane Width, ft 11 Left-Side Lateral Clearance (LCR), ft 6 Median Type TWLTL Total Lateral Clearance (LCR), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (f+v) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Total Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (Ma) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.), veh/h 358 Effective Width of Volume (Ww), ft 13 Bicyle LOS Score (BLOS) 4.77 | Number of Lanes (N), In | 2 | Terrain Type | Rolling | | | | | | |
| Base Free-Flow Speed (BFFS), mi/h Iane Width, ft I1 Left-Side Lateral Clearance (LCR), ft Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h All Familiar Final Speed Adjustment Factors Driver Population SAF I.000 Final Capacity Adjustment Factor (CAF) Driver Population CAF I.000 IIII IIII IIII IIII IIII IIII IIII | Segment Length (L), ft | - | Percent Grade, % | - | | | | | | |
| Lane Width, ft Left-Side Lateral Clearance (LCR), ft Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h All Familiar Final Speed Adjustment Factor (SAF) Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Final Capacity Adjustment Factor (CAF) Driver Population CAF 1.000 Final Capacity Adjustment Factor (CAF) Driver Population CAF Heavy Vehicle Adjustment Factor (FIV) O.943 Peak Hour Factor O.92 Flow Rate (Vp), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cad)), pc/h/ln 1900 Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 1.00 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) O.0 Level of Service (LOS) A Access Point Density Adjustment (FACTOR) 1.000 End Capacity (Capacity (C | Measured or Base Free-Flow Speed | Base | Grade Length, mi | - | | | | | | |
| Median Type TWLTL Total Lateral Clearance (TLC), ft 8 Free-Flow Speed (FFS), mi/h 34.7 Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fhv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (cag), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cag), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (flw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fluc) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 | | | | | | |
| Free-Flow Speed (FFS), mi/h Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Priver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c, pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (flw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fl.C) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.)veh/h 358 Effective Speed Factor (St) 4.17 | Lane Width, ft | 11 | Left-Side Lateral Clearance (LCR), ft | 6 | | | | | | |
| Direction 1 Adjustment Factors Driver Population All Familiar Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (finv) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fl.w) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fl.t.c) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 | | | | | | |
| Driver Population SAF 1.000 Final Speed Adjustment Factor (SAF) 1.000 Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fl.LC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicycle LOS Score (BLOS) 4.77 | Free-Flow Speed (FFS), mi/h | 34.7 | | | | | | | | |
| Driver Population SAF 1.000 Final Capacity Adjustment Factor (CAF) 1.000 Driver Population CAF 1.000 Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ftW) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicycle LOS Score (BLOS) 4.77 | Direction 1 Adjustment Factor | ors | | | | | | | | |
| Driver Population CAF Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 920 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 | | | | | | |
| Direction 1 Demand and Capacity Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (ft.tc) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 | | | | | | |
| Volume(V) veh/h 659 Heavy Vehicle Adjustment Factor (fHV) 0.943 Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Driver Population CAF | 1.000 | | | | | | | | |
| Peak Hour Factor 0.92 Flow Rate (Vp), pc/h/ln 380 Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (ft.tc) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Direction 1 Demand and Cap | pacity | | - | | | | | | |
| Total Trucks, % 3.00 Capacity (c), pc/h/ln 1900 Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (ft.w) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (ft.t.c) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Volume(V) veh/h | 659 | Heavy Vehicle Adjustment Factor (fHV) | 0.943 | | | | | | |
| Single-Unit Trucks (SUT), % - Adjusted Capacity (cadj), pc/h/ln 1900 Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) Direction 1 Speed and Density Lane Width Adjustment (ftw) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (ftLc) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) | Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 380 | | | | | | |
| Tractor-Trailers (TT), % - Volume-to-Capacity Ratio (v/c) 0.20 Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) A Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 1900 | | | | | | |
| Direction 1 Speed and Density Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 | | | | | | |
| Lane Width Adjustment (fLW) 1.9 Average Speed (S), mi/h 34.7 Total Lateral Clearance Adj. (fLLC) 0.9 Density (D), pc/mi/ln 11.0 Median Type Adjustment (fM) 0.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.20 | | | | | | |
| Total Lateral Clearance Adj. (fLLC) Median Type Adjustment (fM) Access Point Density Adjustment (fA) Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h Effective Width of Volume (Wv), ft 13 Density (D), pc/mi/ln 11.0 Access Point/In Level of Service (LOS) A Effective Speed Factor (St) 4.17 Bicyle LOS Score (BLOS) 4.77 | Direction 1 Speed and Densi | ty | | | | | | | | |
| Median Type Adjustment (fM) O.0 Level of Service (LOS) Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vOL),veh/h Effective Width of Volume (Wv), ft 13 Level of Service (LOS) A Level of Service (LOS) A Bicycle LOS A Bicycle LOS A A A A A A A A A A A A A | Lane Width Adjustment (fLW) | 1.9 | Average Speed (S), mi/h | 34.7 | | | | | | |
| Access Point Density Adjustment (fA) 7.5 Direction 1 Bicycle LOS Flow Rate in Outside Lane (vol.),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 11.0 | | | | | | |
| Direction 1 Bicycle LOS Flow Rate in Outside Lane (voL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Access Point Density Adjustment (fA) | 7.5 | | | | | | | | |
| Flow Rate in Outside Lane (vOL),veh/h 358 Effective Speed Factor (St) 4.17 Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Direction 1 Bicycle LOS | | | | | | | | | |
| Effective Width of Volume (Wv), ft 13 Bicyle LOS Score (BLOS) 4.77 | Flow Rate in Outside Lane (vOL),veh/h | 358 | Effective Speed Factor (St) | 4.17 | | | | | | |
| | | | · | | | | | | | |
| | Average Effective Width (We), ft | 13 | Bicycle Level of Service (LOS) | E | | | | | | |

| Direction 2 Geometric Data | | | |
|---------------------------------------|--------------|--|---------|
| Direction 2 | Opposite | | |
| Number of Lanes (N), In | 2 | Terrain Type | Rolling |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 45.0 | Access Point Density, pts/mi | 30.0 |
| Lane Width, ft | 11 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | TWLTL | Total Lateral Clearance (TLC), ft | 8 |
| Free-Flow Speed (FFS), mi/h | 34.7 | | |
| Direction 2 Adjustment Fact | ors | | |
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |
| Direction 2 Demand and Ca | pacity | | |
| Volume(V) veh/h | 355 | Heavy Vehicle Adjustment Factor (fhv) | 0.943 |
| Peak Hour Factor | 0.92 | Flow Rate (V _p), pc/h/ln | 204 |
| Total Trucks, % | 3.00 | Capacity (c), pc/h/ln | 1900 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 1900 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.11 |
| Direction 2 Speed and Dens | ity | | |
| Lane Width Adjustment (fLW) | 1.9 | Average Speed (S), mi/h | 34.7 |
| Total Lateral Clearance Adj. (fLLC) | 0.9 | Density (D), pc/mi/ln | 5.9 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | А |
| Access Point Density Adjustment (fA) | 7.5 | | |
| Direction 2 Bicycle LOS | | | |
| Flow Rate in Outside Lane (vOL),veh/h | 358 | Effective Speed Factor (St) | 4.17 |
| Effective Width of Volume (Wv), ft | 13 | Bicyle LOS Score (BLOS) | 4.77 |
| Average Effective Width (We), ft | 13 | Bicycle Level of Service (LOS) | E |
| | | | |

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| | | | HCS7 Two | o-Lan | e Highv | way Re | eport | |
|-------------------------------|-----------------|--------------------------------|--------------------|----------|--------------------------------|----------------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ency | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Descriptio | n | 03155_Spring St. | | Units | | | U.S. Customary |
| | | | | Seg | ment 1 | | | |
| Vel | hicle Inpu | ts | | | | | | |
| Seg | ment Type | | Passing Constrain | ned | Length, | ft | | 1848 |
| | e Width, ft | | 15 | | Shoulde | r Width, f | t | 1 |
| Spe | ed Limit, mi/h | | 30 | | Access P | oint Dens | ity, pts/mi | 30.0 |
| De | mand and | Capacity | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 180 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peal | k Hour Factor | | 0.92 | | Total Tru | | | 3.00 |
| Seg | ment Capacity | , veh/h | 1700 | | Demand | /Capacity | (D/C) | 0.11 |
| Int | ermediate | Results | | | | | | |
| Seg | ment Vertical | Class | 2 | 2 | | w Speed, | mi/h | 24.9 |
| | ed Slope Coef | | 4.62038 | 4.62038 | | ower Coe | fficient | 0.41622 |
| PF S | Slope Coefficie | nt | -1.58330 | -1.58330 | | r Coefficie | ent | 0.57899 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 3.4 |
| %lm | nproved % Fol | lowers | 0.0 | 0.0 | | % Improved Avg Speed | | 0.0 |
| Sul | bsegment | Data | | | · | | | |
| # | Segment Ty | pe | Length, ft | R | adius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 1848 | - | | | - | 23.3 |
| Vel | hicle Resu | lts | | | | | | |
| Ave | rage Speed, m | ui/h | 23.3 | | Percent | Followers, | . % | 44.4 |
| | ment Travel Ti | | 0.90 | | Follower | Density, | followers/mi/ln | 3.4 |
| Vehi | icle LOS | | В | | | | | |
| Bic | ycle Resul | lts | | | | | | |
| | | | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h | | 180 | | | ffective V | | 16 | |
| Bicycle LOS Score 3.72 | | 3.72 | 3.72 | | Bicycle Effective Speed Factor | | 3.39 | |
| Bicycle LOS D | | | | | | | | |
| Fac | cility Resu | lts | | | | | | |
| | Т | Follower | Density, followers | s/mi/ln | | | LO | S |
| | 1 | | 3.4 | | | | В | |
| _ | | varsity of Florida, All Diabts | | | -Lano Vorcion | | | Ganaratad: 02/01/2023 13:07:48 |

| | | HCS7 T | wo-Lane | Highv | way Re | eport | |
|-------------------------------|-----------------------------|-----------------------------|------------|-----------|-----------------------------------|--------------------|---------------------|
| Pro | oject Information | | | | | | |
| Ana | llyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | Dickson Cour | nty | Time An | alyzed | | Existing |
| Proj | ect Description | 03155_Acade E.Ricket St. | my St/ | Units | | | U.S. Customary |
| | | | Segr | nent 1 | | | |
| Ve | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Cons | trained | Length, | ft | | 792 |
| Lan | e Width, ft | 11 | | Shoulde | r Width, f | i | 1 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 50.0 |
| De | mand and Capacity | | | | | | • |
| Dire | ectional Demand Flow Rate, | veh/h 185 | | Opposin | g Deman | d Flow Rate, veh/h | T- |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | /Capacity | (D/C) | 0.11 |
| Int | ermediate Results | | | | | | • |
| Seg | ment Vertical Class | 1 | | Free-Flo | w Speed, | mi/h | 20.0 |
| Spe | ed Slope Coefficient | 1.59273 | | Speed Po | ower Coe | fficient | 0.41674 |
| PF S | Slope Coefficient | -1.34666 | -1.34666 | | r Coefficie | ent | 0.56615 |
| In P | assing Lane Effective Lengt | h? No | No | | gment De | nsity, veh/mi/ln | 3.8 |
| %lm | nproved % Followers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | · | | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 792 | - | | | - | 19.4 |
| Ve | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 19.4 | | Percent | Followers, | % | 40.4 |
| Seg | ment Travel Time, minutes | 0.46 | | Follower | Follower Density, followers/mi/ln | | 3.8 |
| Veh | icle LOS | В | | | | | |
| Bic | cycle Results | | | | | | • |
| Percent Occupied Parking | | 0 | 0 | | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h | | 185 | | | ffective W | | 12 |
| Bicycle LOS Score | | 4.29 | | | | peed Factor | 3.39 |
| | rcle LOS | D | | | | | |
| Fac | cility Results | | | | | | |
| | Т | Follower Density, follow | vers/mi/ln | | | LC | os |
| | 1 | 3.8 | | | | E | |

| | | HCS7 Tw | o-Lane | Highv | vay Re | eport | |
|-------------------------------|----------------------------------|----------------------------|-------------|---------------|-------------------------|--------------------|--------------------------------|
| Pro | oject Information | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| Juri | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ject Description | 03153_Tennsco | Dr. | Units | | | U.S. Customary |
| | | <u> </u> | Segr | nent 1 | | | |
| Ve | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constra | ined | Length, 1 | t | | 3432 |
| | e Width, ft | 12 | | | r Width, ft | | 2 |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | ity, pts/mi | 25.0 |
| De | emand and Capacit | у | | | | | |
| Dire | ectional Demand Flow Rate | e, veh/h 192 | | Opposin | g Deman | d Flow Rate, veh/h | 1- |
| Pea | k Hour Factor | 0.92 | | Total Tru | cks, % | | 4.00 |
| Seg | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.11 |
| Int | termediate Results | <u> </u> | | | | | |
| Seg | ment Vertical Class | 2 | 2 | | w Speed, | mi/h | 25.0 |
| | ed Slope Coefficient | 4.61094 | 4.61094 | | ower Coef | ficient | 0.41622 |
| PF S | Slope Coefficient | -1.50143 | -1.50143 | | r Coefficie | ent | 0.59027 |
| In P | Passing Lane Effective Leng | th? No | No | | gment De | nsity, veh/mi/ln | 3.6 |
| %In | nproved % Followers | 0.0 | 0.0 | | ved Avg S | peed | 0.0 |
| Su | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Ra | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 3432 | - | | | - | 23.3 |
| Ve | hicle Results | <u> </u> | | | | | <u>'</u> |
| Ave | erage Speed, mi/h | 23.3 | | Percent I | -ollowers, | % | 43.3 |
| Seg | ment Travel Time, minutes | 1.67 | | Follower | Density, 1 | followers/mi/ln | 3.6 |
| Veh | icle LOS | В | | | | | |
| Bio | cycle Results | <u>'</u> | | | | | |
| Perd | cent Occupied Parking | 0 | | Pavemer | nt Condition | on Rating | 4 |
| Flow Rate Outside Lane, veh/h | | n 192 | | | ffective W | /idth, ft | 14 |
| Bicycle LOS Score 4.24 | | 4.24 | 4.24 | | ffective S _I | peed Factor | 3.39 |
| Bicycle LOS D | | | | | | | |
| Fac | cility Results | | | | | | |
| | т | Follower Density, follower | rs/mi/ln | | | LC | os . |
| | 1 | 3.6 | | | | E | |
| Copy | right © 2023 University of Flori | da. All Rights Reserved. | HCSTM Two-L | ane Version 7 | 7.9.6 | | Generated: 02/01/2023 13:05:24 |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|----------------------------|-----------------|--------------------------------|-------------------------|--------------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | |
| Proj | ect Description | n | 03153_Marshall Stuart | Dr. | Units | | | U.S. Customary |
| | Segment 1 | | | | | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | П | Length, f | t | | 3934 |
| Lane | e Width, ft | | 12 | | Shoulder | · Width, ft | i | 2 |
| Spe | ed Limit, mi/h | | 40 | | Access P | oint Dens | ity, pts/mi | 25.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 279 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 4.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.16 |
| Int | ermediate | Results | • | | | | | |
| Segi | ment Vertical (| Class | 2 | П | Free-Flov | w Speed, | mi/h | 36.4 |
| | ed Slope Coef | | 3.68868 | | Speed Power Coefficient | | | 0.41622 |
| _ | Slope Coefficie | | -1.50184 | | PF Power | r Coefficie | ent | 0.65895 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 3.8 |
| %lm | nproved % Foll | owers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | <u> </u> | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 3934 | - | | | - | 34.6 |
| Vel | hicle Resul | lts | <u>'</u> | | | | | |
| Avei | rage Speed, m | i/h | 34.6 | П | Percent F | -ollowers, | % | 47.7 |
| Segi | ment Travel Ti | me, minutes | 1.29 | | Follower Density, followers/mi/ln | | | 3.8 |
| Vehi | icle LOS | | В | | 3) | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | | Pavemer | nt Conditi | on Rating | 4 | |
| | | 279 | | Bicycle Effective Width, ft | | | 14 | |
| Bicycle LOS Score 4.75 | | | | Bicycle Effective Speed Factor | | | 4.17 | |
| Bicy | Bicycle LOS E | | | | | | | |
| Fac | cility Resul | ts | • | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S |
| | 1 | | 3.8 | | | | В | |
| | | varsity of Florida, All Pights | | | o Varsian 7 | | | Congrated: 02/01/2023 13:04:28 |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | |
|-------------------------------|-----------------|----------------------------------|-------------------------|--------------------------------|-----------------------------------|----------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | 1 | Date | | | 6/20/2022 |
| Age | ncy | | TCG | A | Analysis Year | | | 2022 |
| Juris | diction | | Dickson County | Т | Time Ana | alyzed | | Existing |
| Proj | ect Description | า | 03152_E.Ricket St. | | Jnits | | | U.S. Customary |
| | Segment 1 | | | | | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | L | Length, f | t | | 1003 |
| Lane | e Width, ft | | 16 | 5 | Shoulder | · Width, ft | t | 1 |
| Spe | ed Limit, mi/h | | 30 | F | Access Po | oint Dens | ity, pts/mi | 17.0 |
| De | mand and | Capacity | · | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 142 | | Opposing | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | 1 | Total True | cks, % | | 3.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.08 |
| Int | ermediate | Results | <u>'</u> | | | | | |
| Segi | ment Vertical (| Class | 1 | F | Free-Flow Speed, mi/h | | | 28.8 |
| | ed Slope Coef | | 2.06698 | | Speed Power Coefficient | | | 0.41674 |
| _ | Slope Coefficie | | -1.45894 | | PF Power | r Coefficie | ent | 0.62136 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 1.8 |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | • | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 1003 | - | | | - | 28.2 |
| Vel | hicle Resul | lts | | | | | | |
| Aver | rage Speed, m | i/h | 28.2 | F | Percent F | - ollowers, | . % | 35.2 |
| Segi | ment Travel Ti | me, minutes | 0.40 | F | Follower Density, followers/mi/ln | | | 1.8 |
| | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | F | Pavemen | ıt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 142 | E | Bicycle Effective Width, ft | | | 23 | |
| Bicycle LOS Score 2.23 | | | E | Bicycle Effective Speed Factor | | peed Factor | 3.39 | |
| Bicy | Bicycle LOS B | | | | | | | |
| Fac | ility Resul | ts | • | , | | | | |
| | T | Follower | Density, followers/mi/l | ln | | | LO | S |
| | 1 | | 1.8 | | | | A | |
| | | varsity of Florida, All Diabts I | | | Vorcion 7 | | | Ganaratad: 02/01/2023 13:03:25 |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-------------------------------|-----------------|--------------------------------|-------------------------|--------------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | T | Date | | | 6/20/2022 |
| Age | ncy | | TCG | , | Analysis Year | | | 2022 |
| Juris | diction | | Dickson County | - | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 03151_Weaver Dr. | | Units | | | U.S. Customary |
| | Segment 1 | | | | | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Ti | Length, f | t | | 2376 |
| Lane | e Width, ft | | 12 | : | Shoulder | · Width, ft | t | 6 |
| Spe | ed Limit, mi/h | | 40 | <u> </u> | Access P | oint Dens | ity, pts/mi | 20.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 178 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | 1 | Total Tru | cks, % | | 4.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.10 |
| Int | ermediate | Results | ' | | | | | |
| Segi | ment Vertical (| Class | 2 | T | Free-Flov | w Speed, | mi/h | 40.5 |
| Spe | ed Slope Coef | ficient | 3.36104 | | Speed Power Coefficient | | | 0.41622 |
| PF S | lope Coefficie | nt | -1.55349 | | PF Powei | r Coefficie | ent | 0.67189 |
| In Pa | assing Lane Ef | fective Length? | No | - | Total Segment Density, veh/mi/ln | | | 1.8 |
| %lm | proved % Foll | owers | 0.0 |).0 % I | | ved Avg S | Speed | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 2376 | - | | | - | 39.3 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 39.3 | Ti | Percent F | ollowers, | . % | 38.6 |
| Segi | ment Travel Ti | me, minutes | 0.69 | | Follower Density, followers/mi/ln | | | 1.8 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | T | Pavemen | t Condition | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 178 | | Bicycle Effective Width, ft | | | 24 | |
| Bicycle LOS Score 2.62 | | | 1 | Bicycle Effective Speed Factor | | | 4.17 | |
| Bicy | cle LOS | | С | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | 'In | | | LO | S |
| | 1 | | 1.8 | | | | A | |
| | | varsity of Florida, All Pights | | | n Vorsion 7 | | | Congrated: 02/01/2023 12:56:08 |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-------------------------------|-----------------|--------------------------------|-------------------------|-----------------------------|-----------------------------------|-------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 |
| Age | ncy | | TCG | | Analysis Year | | | 2022 |
| Juris | diction | | Dickson County | 1 | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 03151_W.Walnut St. | | Units | | | U.S. Customary |
| | | | Se | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Т | Length, f | t | | 4071 |
| Lane | e Width, ft | | 12 | | Shoulder | · Width, ft | t | 2 |
| Spe | ed Limit, mi/h | | 30 | | Access P | oint Dens | ity, pts/mi | 50.0 |
| De | mand and | Capacity | • | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 720 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | 1 | Total Tru | cks, % | | 4.00 |
| Segi | ment Capacity | , veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.42 |
| Int | ermediate | Results | ' | | | | | |
| Segi | ment Vertical (| Class | 2 | П | Free-Flov | w Speed, | mi/h | 21.3 |
| | ed Slope Coef | | 4.91432 | | | ower Coef | | 0.41622 |
| PF S | lope Coefficie | nt | -1.46102 | | PF Power | r Coefficie | ent | 0.56401 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 29.3 |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 4071 | 1- | | | - | 17.2 |
| Vel | hicle Resu | lts | <u> </u> | | | | | |
| Avei | rage Speed, m | i/h | 17.2 | П | Percent F | ollowers, | . % | 70.3 |
| Segi | ment Travel Ti | me, minutes | 2.68 | | Follower Density, followers/mi/ln | | | 29.3 |
| Vehi | icle LOS | | E | | <i>y.</i> | | | |
| Bic | ycle Resul | ts | <u>'</u> | | | | | |
| Percent Occupied Parking 0 | | | П | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 720 | | Bicycle Effective Width, ft | | | 14 | |
| Bicycle LOS Score 4.91 | | | 4.91 | | Bicycle Effective Speed Factor | | peed Factor | 3.39 |
| Bicy | cle LOS | | E | | | | | |
| Fac | ility Resul | ts | | | | | | |
| | Т | Follower | Density, followers/mi/l | 'In | | | LO | S |
| | 1 | | 29.3 | | | | E | |
| | | varsity of Florida, All Pights | | | o Varsian 7 | | | Caparatad: 02/01/2023 12:5/:10 |

| | | HCS7 Two-L | ane | Highv | vay Re | eport | | |
|-----------------------------------|------------------------|-----------------------|----------|----------------------------------|-------------|--------------------|---------------------|--|
| Project In | formation | | | | | | | |
| Analyst | | TCG | | Date | | | 6/20/2022 | |
| Agency | | TCG | | Analysis | Year | | 2022 | |
| Jurisdiction | | Dickson County | | Time An | alyzed | | Existing | |
| Project Descri | ption | 03151_E. Walnut St. | | Units | | | U.S. Customary | |
| | | S | Segn | nent 1 | | | | |
| Vehicle In | puts | | | | | | | |
| Segment Type | <u> </u> | Passing Constrained | | Length, 1 | ft | | 3643 | |
| Lane Width, f | t | 12 | | Shoulder Width, ft | | | 2 | |
| Speed Limit, r | ni/h | 30 | | Access P | oint Dens | sity, pts/mi | 50.0 | |
| Demand a | Demand and Capacity | | | | | | | |
| Directional De | emand Flow Rate, veh/h | 473 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peak Hour Factor 0.92 | | | | Total Tru | cks, % | | 4.00 | |
| Segment Capacity, veh/h 1700 | | Demand/Capacity (D/C) | | | 0.28 | | | |
| Intermediate Results | | | | | | | | |
| Segment Vert | 2 | | Free-Flo | w Speed, | mi/h | 21.3 | | |
| Speed Slope (| Coefficient | 4.91432 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF Slope Coet | fficient | -1.47179 | | PF Powe | r Coefficie | ent | 0.56283 | |
| In Passing Lar | ne Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 16.3 | |
| %Improved % | 5 Followers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Subsegme | ent Data | | | | | | | |
| # Segmer | nt Type | Length, ft | Rad | ius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 Tangent | t | 3643 | - | | | - | 18.0 | |
| Vehicle Re | esults | | | | | | | |
| Average Spee | ed, mi/h | 18.0 | | Percent I | Followers, | , % | 61.9 | |
| Segment Trav | el Time, minutes | 2.30 | | Follower | Density, | followers/mi/ln | 16.3 | |
| Vehicle LOS | | E | | | | | | |
| Bicycle Re | esults | ' | | | | | | |
| Percent Occup | pied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 473 | | | | Bicycle E | ffective W | Vidth, ft | 14 | |
| Bicycle LOS Score 4.70 | | | | | ffective S | 3.39 | | |
| Bicycle LOS | | E | | | | | | |
| Facility Re | esults | | | | | | | |
| Т | Follower | Density, followers/mi | /ln | | | LO | OS . | |
| 1 | | 16.3 | | | | E | | |
| | | | | | | | | |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | | |
|-----------------------------------|--|--------------------------------|------------------------|-----------|----------------------|-------------|--------------------|--------------------------------|--|
| Pro | oject Infor | mation | | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 | |
| Age | ncy | | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing | |
| Proj | ect Description | n | 03151_Beasley Drive | | Units | | | U.S. Customary | |
| | | | S | egn | nent 1 | | | | |
| Vel | hicle Input | ts | | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | ft | | 3057 | |
| Lane | e Width, ft | | 12 | | Shoulder | r Width, ft | t | 4 | |
| Speed Limit, mi/h 40 | | | | Access P | oint Dens | ity, pts/mi | 10.0 | | |
| Demand and Capacity | | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 720 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 4.00 | |
| Segment Capacity, veh/h 1700 | | | | Demand | /Capacity | (D/C) | 0.42 | | |
| Intermediate Results | | | | | | | | | |
| Segi | ment Vertical (| 2 | | Free-Flov | w Speed, | mi/h | 41.6 | | |
| Spe | ed Slope Coef | ficient | 3.27205 | | Speed Po | ower Coef | fficient | 0.41622 | |
| PF S | Slope Coefficie | nt | -1.51579 | | PF Power | r Coefficie | ent | 0.67969 | |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 13.0 | |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Sul | bsegment | Data | | | <u> </u> | | | | |
| # | Segment Ty | pe | Length, ft | Rad | lius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | | 3057 | - | | | - | 38.9 | |
| Vel | hicle Resu | lts | | | | | | | |
| Avei | rage Speed, m | i/h | 38.9 | | Percent F | Followers, | . % | 70.2 | |
| Segi | ment Travel Ti | me, minutes | 0.89 | | Follower | Density, | followers/mi/ln | 13.0 | |
| Vehi | icle LOS | | D | | | | | | |
| Bic | ycle Resul | ts | <u> </u> | | | | | | |
| Perc | Percent Occupied Parking 0 Pavement Condition Rating 4 | | | | | | | | |
| Flow Rate Outside Lane, veh/h 720 | | | | | Bicycle E | ffective W | /idth, ft | 20 | |
| Bicycle LOS Score 4.21 | | | | | Bicycle E | ffective S | peed Factor | 4.17 | |
| Bicy | cle LOS | | D | | | | | | |
| Fac | cility Resul | ts | | | | | | | |
| | Т | Follower | Density, followers/mi/ | /ln | | | LO | S | |
| | 1 | | 13.0 | | D | | | | |
| | | varsity of Florida, All Pights | | | no Varcian 7 | | | Ganaratad: 02/01/2023 12:55:10 | |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | | | |
|-------------------------------------|------------------------------|---------------------------------|-----------------------|------------|----------------------------------|------------------------|--------------------|--------------------------------|--|--|
| Pro | oject Inform | nation | | | | | | | | |
| Ana | lyst | | TCG | 1 | Date | | | 6/20/2022 | | |
| Age | ncy | | TCG | A | Analysis ` | Year | | 2022 | | |
| Juris | sdiction | | Dickson County | 7 | Time Analyzed | | | Existing | | |
| Proj | ect Description | | 03150_S.Charlotte St. | ι | Units | | | U.S. Customary | | |
| | | | S | egme | gment 1 | | | | | |
| Vel | hicle Inputs | 5 | | | | | | | | |
| Segi | ment Type | | Passing Constrained | L | Length, f | t | | 1109 | | |
| | e Width, ft | | 16 | _ | | Width, ft | t | 2 | | |
| Spe | Speed Limit, mi/h | | 30 | A | Access Po | oint Dens | ity, pts/mi | 60.0 | | |
| De | mand and | Capacity | 1 | | | | | | | |
| Dire | ectional Demand | d Flow Rate, veh/h | 143 | | Opposino | g Deman | d Flow Rate, veh/h | - | | |
| Peak | k Hour Factor | <u> </u> | 0.92 | | Total True | - | | 4.00 | | |
| Segi | Segment Capacity, veh/h 1700 | | | [| Demand, | 'Capacity | (D/C) | 0.08 | | |
| Intermediate Results | | | | | | | | | | |
| Segi | ment Vertical C | lass | 1 | F | Free-Flov | v Speed, | mi/h | 23.7 | | |
| | ed Slope Coeffi | | 1.79146 | | | wer Coef | | 0.41674 | | |
| i i | Slope Coefficien | | -1.40274 | | • | Coefficie | | 0.59033 | | |
| In Pa | assing Lane Effe | ective Length? | No | | Total Segment Density, veh/mi/ln | | | 2.2 | | |
| %lm | nproved % Follo | wers | | | % Improved Avg Speed | | | 0.0 | | |
| Sul | bsegment l | Data | • | | | | | | | |
| # | Segment Typ | e | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | | 1109 | 1- | | | - | 23.2 | | |
| Vel | hicle Result | ts | | | | | | | | |
| Avei | rage Speed, mi, | /h | 23.2 | F | Percent F | ollowers, | % | 36.0 | | |
| | ment Travel Tim | | 0.54 | F | Follower | Density, 1 | followers/mi/ln | 2.2 | | |
| Vehi | icle LOS | | А | | | | | | | |
| Bic | ycle Result | S | <u>'</u> | | | | | | | |
| | | | | | t Conditi | on Rating | 4 | | | |
| Flow Rate Outside Lane, veh/h 143 | | | E | Bicycle Et | fective W | /idth, ft | 24 | | | |
| Bicy | Bicycle LOS Score 2.20 | | | E | Bicycle Et | fective S _I | peed Factor | 3.39 | | |
| Bicycle LOS B | | | | | | | | | | |
| Fac | ility Result | :s | | | | | | | | |
| T Follower Density, followers/mi/ln | | | | 'In | LOS | | | S | | |
| | 1 | | 2.2 | | A | | | | | |
| Copyr | right © 2023 Unive | ersity of Florida, All Rights F | | Two Land | Version 7 | 0.6 | | Generated: 02/01/2023 12:47:44 | | |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | | | |
|-----------------------------------|-----------------|---------------------------------|-------------------------|-----------|----------------------------------|-------------------------|--------------------|--------------------------------|--|--|
| Pro | oject Infor | mation | | | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 | | |
| Age | ncy | | TCG | | Analysis Year | | | 2022 | | |
| Juris | sdiction | | Dickson County | 1 | Time Ana | alyzed | | Existing | | |
| Proj | ect Description | n | 03150_N.Charlotte Stre | eet | Units | | | U.S. Customary | | |
| | | | Se | egm | gment 1 | | | | | |
| Vel | hicle Input | ts | | | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 3010 | | |
| Lane | e Width, ft | | 11 | : | Shoulder | · Width, ft | i | 2 | | |
| Speed Limit, mi/h 30 | | | | Access P | oint Dens | ity, pts/mi | 40.0 | | | |
| De | mand and | Capacity | • | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 180 | 1 | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| Peak | k Hour Factor | | 0.92 | 1 | Total Tru | cks, % | | 3.00 | | |
| Segment Capacity, veh/h 1700 | | | | Demand, | /Capacity | (D/C) | 0.11 | | | |
| Intermediate Results | | | | | | | | | | |
| Segi | ment Vertical (| 2 | T | Free-Flov | w Speed, | mi/h | 20.7 | | | |
| Spe | ed Slope Coef | ficient | 4.96016 | : | Speed Po | ower Coef | fficient | 0.41622 | | |
| PF S | Slope Coefficie | nt | -1.48948 | | PF Powei | r Coefficie | ent | 0.55484 | | |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 4.2 | | |
| %lm | nproved % Foll | owers | 0.0 | • | % Improved Avg Speed | | | 0.0 | | |
| Sul | bsegment | Data | | | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | | 3010 | - | | | - | 19.0 | | |
| Vel | hicle Resu | lts | | | | | | | | |
| Avei | rage Speed, m | i/h | 19.0 | | Percent F | ollowers, | % | 43.8 | | |
| Segi | ment Travel Ti | me, minutes | 1.80 | | Follower | Density, 1 | followers/mi/ln | 4.2 | | |
| Vehi | icle LOS | | В | | | | | | | |
| Bic | ycle Resul | ts | | | | | | | | |
| Perc | ent Occupied | Parking | 0 | | Pavemen | nt Condition | on Rating | 4 | | |
| Flow Rate Outside Lane, veh/h 180 | | | | | Bicycle E | ffective W | /idth, ft | 13 | | |
| Bicy | rcle LOS Score | | 4.15 | | Bicycle E | ffective S _I | peed Factor | 3.39 | | |
| Bicy | cle LOS | | D | | | | | | | |
| Fac | cility Resul | ts | | | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S | | |
| | 1 | | 4.2 | | | | В | | | |
| | | orcity of Florida, All Diabte I | | | o Varsian 7 | | | Ganaratad: 02/01/2023 12:52:10 | | |

| | | | HCS7 Two-La | ane F | Highv | vay Re | eport | | |
|-----------------------------------|--|----------------------------------|-------------------------|-----------|----------------------|-------------------------|--------------------|--------------------------------|--|
| Pro | oject Infor | mation | | | | | | | |
| Ana | lyst | | TCG | Г | Date | | | 6/20/2022 | |
| Age | ncy | | TCG | A | Analysis | Year | | 2022 | |
| Juris | sdiction | | Dickson County | 7 | Time Ana | alyzed | | Existing | |
| Proj | ect Description | n | 01862_Taylor Town Rd. | . ι | Units | | | U.S. Customary | |
| | | | Se | egme | ent 1 | | | | |
| Vel | hicle Input | ts | | | | | | | |
| Segi | ment Type | | Passing Constrained | L | Length, f | t | | 9187 | |
| Lane | e Width, ft | | 10 | 9 | Shoulder | · Width, ft | t . | 2 | |
| Speed Limit, mi/h 30 | | A | Access P | oint Dens | ity, pts/mi | 40.0 | | | |
| De | Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 145 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peak | k Hour Factor | | 0.92 | 7 | Total Tru | cks, % | | 3.00 | |
| Segment Capacity, veh/h 1700 | | | С | Demand, | /Capacity | (D/C) | 0.09 | | |
| Intermediate Results | | | | | | | | | |
| Segment Vertical Class 2 | | | 2 | F | Free-Flov | w Speed, | mi/h | 20.1 | |
| Spe | ed Slope Coef | ficient | 5.00870 | | Speed Po | ower Coef | fficient | 0.41622 | |
| PF S | Slope Coefficie | nt | -1.43851 | F | PF Powei | Coefficie | ent | 0.54254 | |
| In Pa | assing Lane Ef | fective Length? | No | 1 | Total Seg | ment De | nsity, veh/mi/ln | 3.1 | |
| %lm | nproved % Foll | owers | 0.0 | 9 | % Improved Avg Speed | | | 0.0 | |
| Sul | bsegment | Data | | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | | 9187 | - | | | - | 18.7 | |
| Vel | hicle Resu | lts | | | | | | | |
| Avei | rage Speed, m | i/h | 18.7 | F | Percent F | ollowers, | . % | 39.6 | |
| Segi | ment Travel Ti | me, minutes | 5.57 | F | Follower | Density, 1 | followers/mi/ln | 3.1 | |
| Vehi | icle LOS | | В | | | | | | |
| Bic | ycle Resul | ts | | | | | | | |
| Perc | Percent Occupied Parking 0 Pavement Condition Rating 4 | | | | | | | | |
| Flow Rate Outside Lane, veh/h 145 | | | | | Bicycle E | ffective W | /idth, ft | 16 | |
| Bicycle LOS Score 3.61 | | | | | Bicycle E | ffective S _I | peed Factor | 3.39 | |
| Bicy | cle LOS | | D | | | | | | |
| Fac | ility Resul | ts | - | | | | | | |
| | Т | Follower | Density, followers/mi/l | ln | | | LO | S | |
| | 1 | | 3.1 | | | | В | | |
| C | : h. @ 2022 II.: | varsity of Florida, All Pights I | | | Vorsion 7 | 10.6 | | Ganaratad: 02/01/2022 12:28:12 | |

| | | HCS7 Two | o-Lane | High | way Re | eport | | |
|----------------------------------|----------------------------------|------------------------------------|-----------|----------------------------------|---------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juri | sdiction | Dickson County | | Time An | Time Analyzed | | Existing | |
| Proj | ject Description | 01860_Pump Hill Jones Creek Rd. | Rd./ | Units | | | U.S. Customary | |
| | | | Segn | nent 1 | | | | |
| Ve | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrair | ned | Length, | ft | | 2640 | |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 3 | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 26.0 | |
| De | emand and Capacity | | | | | | • | |
| Dire | ectional Demand Flow Rate, veh/h | 61 | | Opposin | g Deman | d Flow Rate, veh/h | T- | |
| Pea | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Seg | ment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.04 | |
| Int | termediate Results | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 24.3 | |
| Spe | ed Slope Coefficient | 4.66892 | | Speed P | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.53065 | | PF Powe | r Coefficie | ent | 0.58068 | |
| In P | Passing Lane Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 0.7 | |
| %In | nproved % Followers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Su | bsegment Data | | | | | | | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 2640 | - | | | - | 24.3 | |
| Ve | hicle Results | | | | | | · | |
| Ave | erage Speed, mi/h | 24.3 | | Percent | Followers | , % | 26.0 | |
| Seg | ment Travel Time, minutes | 1.23 | | Follower | Density, | followers/mi/ln | 0.7 | |
| Veh | icle LOS | А | | | | | | |
| Bio | cycle Results | | | | | | | |
| Pero | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 61 | | | Bicycle E | ffective V | Vidth, ft | 22 | | |
| Вісу | Bicycle LOS Score 2.03 | | | Bicycle E | ffective S | peed Factor | 3.39 | |
| Bicy | /cle LOS | В | | | | | | |
| Fac | cility Results | | | | | | | |
| | T Follows | er Density, followers | s/mi/ln | | | LC | OS . | |
| | 1 | 0.7 | | | | , | 4 | |

| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | |
|-------|---|-----------------------|--------------|--------------|-------------|--------------------|--------------------------------|
| Pro | oject Information | | | _ | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 |
| Age | ency | TCG | | Analysis | Year | | 2022 |
| | sdiction | Dickson County | | Time An | alyzed | | Existing |
| Proj | ect Description | 01860_Jones Cre | ek Rd. | Units | | | U.S. Customary |
| | | | Seg | ment 1 | | | • |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ned | Length, 1 | ft | | 37060 |
| | e Width, ft | 10 | | _ | r Width, f | t | 3 |
| | ed Limit, mi/h | 45 | | | | sity, pts/mi | 13.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 61 | | Opposin | g Deman | d Flow Rate, veh/h | |
| | k Hour Factor | 0.92 | | Total Tru | | , , | 3.00 |
| Seg | ment Capacity, veh/h | 1700 | | | /Capacity | (D/C) | 0.04 |
| | ermediate Results | | | | | | |
| Sea | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 44.6 |
| | ed Slope Coefficient | 3.11550 | | | ower Coe | | 0.41622 |
| · · | Slope Coefficient | -1.58692 | -1.58692 | | r Coefficie | | 0.63683 |
| In P | assing Lane Effective Length? | No | | Total Sec | gment De | nsity, veh/mi/ln | 0.3 |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Su | bsegment Data | | | | | | <u>'</u> |
| # | Segment Type | Length, ft | Rá | adius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 37060 | - | | | - | 44.6 |
| Vel | hicle Results | | | | | | ' |
| Ave | rage Speed, mi/h | 44.6 | | Percent I | Followers, | . % | 23.4 |
| | ment Travel Time, minutes | 9.43 | | | | followers/mi/ln | 0.3 |
| | icle LOS | A | | | | | |
| Bic | cycle Results | | | - | | | |
| | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| | v Rate Outside Lane, veh/h | 61 | | | ffective W | | 22 |
| | rcle LOS Score | 2.39 | | - | | peed Factor | 4.42 |
| Bicy | rcle LOS | В | | - | | | |
| Fac | cility Results | | | | | | |
| | - | er Density, followers | s/mi/ln | | | LC | os |
| | 1 | 0.3 | | | | | |
| Copyr | right © 2023 University of Florida, All Right | | CC TIME TAKE | Lane Version | 7.0.6 | • | Generated: 02/01/2023 12:37:25 |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | |
|----------------------------------|----------------------------------|--------------------------------|------------|------------|---------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | Time Analyzed | | Existing | |
| Proj | ject Description | 01858_Grindston W.Piney Rd. | ne Hollow/ | Units | | | U.S. Customary | |
| | | | Segn | nent 1 | | | | |
| Ve | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 14589 | |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 13.0 | |
| De | mand and Capacity | | | | | | • | |
| Dire | ectional Demand Flow Rate, veh/l | n 85 | | Opposin | g Deman | d Flow Rate, veh/h | T- | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | /Capacity | (D/C) | 0.05 | |
| Int | termediate Results | | | | | | • | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 26.9 | |
| Spe | ed Slope Coefficient | 4.46263 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.57670 | | PF Powe | r Coefficie | ent | 0.55611 | |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 1.0 | |
| %ln | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 | |
| Su | bsegment Data | · | | | | | | |
| # | Segment Type | Length, ft | Rac | lius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 14589 | - | | | - | 26.9 | |
| Ve | hicle Results | | | | | | | |
| Ave | rage Speed, mi/h | 26.9 | | Percent | Followers | , % | 32.9 | |
| Seg | ment Travel Time, minutes | 6.17 | | Follower | Density, | followers/mi/ln | 1.0 | |
| Veh | icle LOS | A | | | | | | |
| Bic | cycle Results | | | | | | • | |
| | | | | | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 85 | | | | ffective V | | 19 | | |
| | Bicycle LOS Score 2.81 | | | - | | peed Factor | 3.39 | |
| | rcle LOS | С | | | | | | |
| Fac | cility Results | | | | | | • | |
| | | wer Density, followers | s/mi/ln | | | LC | os | |
| | 1 | 1.0 | | | | , A | | |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | | |
|----------------------------------|-----------------|--------------------------------|------------------------|----------|-------------------------------------|-------------|--------------------|--------------------------------|--|
| Pro | ject Infor | mation | | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/20/2022 | |
| Age | ncy | | TCG | | Analysis | Year | | 2022 | |
| Juris | diction | | Dickson County | | Time Analyzed | | | Existing | |
| Proj | ect Description | n | 01854_E. Piney Rd | | Units | | | U.S. Customary | |
| | | | S | egm | ent 1 | | | | |
| Vel | hicle Input | ts | | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 33887 | |
| Lane | e Width, ft | | 10 | | Shoulder | · Width, ft | i | 3 | |
| Speed Limit, mi/h 30 | | | | Access P | oint Dens | ity, pts/mi | 16.0 | | |
| Demand and Capacity | | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 66 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peak | K Hour Factor | | 0.92 | | Total Tru | cks, % | | 1.00 | |
| Segment Capacity, veh/h 1700 | | | | Demand | /Capacity | (D/C) | 0.04 | | |
| Intermediate Results | | | | | | | | | |
| Segi | ment Vertical (| Class | 2 | | Free-Flov | w Speed, | mi/h | 26.9 | |
| Spe | ed Slope Coef | ficient | 4.46129 | | Speed Po | ower Coef | fficient | 0.41622 | |
| PF S | lope Coefficie | nt | -1.61365 | | PF Power | r Coefficie | ent | 0.54556 | |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | ment De | nsity, veh/mi/ln | 0.8 | |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Sul | bsegment | Data | | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | us, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | | 33887 | - | | | - | 26.9 | |
| Vel | hicle Resu | lts | | | | | | | |
| Avei | rage Speed, m | i/h | 26.9 | | Percent F | ollowers, | % | 30.7 | |
| Segi | ment Travel Ti | me, minutes | 14.33 | | Follower | Density, | followers/mi/ln | 0.8 | |
| Vehi | icle LOS | | А | | | | | | |
| Bic | ycle Resul | ts | • | | | | | | |
| Perc | ent Occupied | Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 66 | | | | | Bicycle E | ffective W | /idth, ft | 22 | |
| Bicy | cle LOS Score | | 1.73 | | Bicycle Effective Speed Factor 3.39 | | | 3.39 | |
| Bicy | cle LOS | | В | | | | | | |
| Fac | ility Resul | ts | | | | | | | |
| | Т | Follower | Density, followers/mi/ | 'In | | | LO | S | |
| | 1 | | 0.8 | | | | A | | |
| | | varsity of Florida, All Pights | | | o Varsian 7 | | | Ganaratad: 02/01/2023 12:32:15 | |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | |
|----------------------------------|----------------------------------|------------------------------------|---------|----------------------------------|-------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | ect Description | 01851-53_Gilliam Hickman/Galion | | Units | | | U.S. Customary | |
| | | | Segn | nent 1 | | | | |
| Vel | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 17002 | |
| Lane | e Width, ft | 9 | | Shoulde | r Width, f | t | 3 | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 12.0 | |
| De | mand and Capacity | | | | | | <u>'</u> | |
| Dire | ectional Demand Flow Rate, veh/h | 26 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Seg | ment Capacity, veh/h | 1700 | + | | /Capacity | (D/C) | 0.02 | |
| Int | ermediate Results | | | | | | <u>'</u> | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 27.2 | |
| Spe | ed Slope Coefficient | 4.43431 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.61245 | | PF Powe | r Coefficie | ent | 0.54907 | |
| In P | assing Lane Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 0.2 | |
| %lm | nproved % Followers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Su | bsegment Data | | | | | | | |
| # | Segment Type | Length, ft | Rac | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 17002 | - | | | - | 27.2 | |
| Vel | hicle Results | | | | | | | |
| Ave | rage Speed, mi/h | 27.2 | | Percent | Followers | , % | 19.6 | |
| | ment Travel Time, minutes | 7.10 | | Follower | Density, | followers/mi/ln | 0.2 | |
| Veh | icle LOS | A | | | | | | |
| Bic | cycle Results | | | | | | <u>'</u> | |
| | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 26 | | | | ffective V | | 23 | | |
| | Bicycle LOS Score 1.37 | | | - | | peed Factor | 3.39 | |
| | rcle LOS | A | - | | | | | |
| Fac | cility Results | | | | | | | |
| | | er Density, followers | s/mi/ln | | | LC | os | |
| | 1 | 0.2 | | | | , , | | |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | |
|-----------------------------------|----------------------------------|--------------------------------|----------|----------------------------------|---------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | Time Analyzed | | Existing | |
| Proj | iect Description | 01849_Franklin R Church Rd. | ld/Rock | Units | | | U.S. Customary | |
| | | | Segr | nent 1 | | | | |
| Ve | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 23237 | |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 3 | |
| Spe | ed Limit, mi/h | 45 | | Access P | oint Dens | sity, pts/mi | 25.0 | |
| De | mand and Capacity | | | | | | · | |
| Dire | ectional Demand Flow Rate, veh/h | 143 | | Opposin | g Deman | d Flow Rate, veh/h | T- | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Seg | ment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | | 0.08 | |
| Int | ermediate Results | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 41.6 | |
| Spe | ed Slope Coefficient | 3.26545 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.60173 | -1.60173 | | r Coefficie | ent | 0.62544 | |
| In P | assing Lane Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 1.3 | |
| %ln | nproved % Followers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Su | bsegment Data | | | | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 23237 | - | | | - | 40.8 | |
| Ve | hicle Results | | | | | | | |
| Ave | rage Speed, mi/h | 40.8 | | Percent | Followers | , % | 37.8 | |
| Seg | ment Travel Time, minutes | 6.48 | | Follower | Density, | followers/mi/ln | 1.3 | |
| Veh | icle LOS | A | | | | | | |
| Bic | cycle Results | | | | | | • | |
| Percent Occupied Parking 0 | | | | | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h 143 | | | _ | ffective V | | 17 | | |
| | Bicycle LOS Score 3.79 | | | - | | peed Factor | 4.42 | |
| | rcle LOS | D | | | | | | |
| Fac | cility Results | | | | | | | |
| | - | er Density, followers | s/mi/ln | | | LC | os . | |
| | 1 | 1.3 | | | | , A | | |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | | | |
|-----------------------------------|-----------------|--------------------------------|------------------------|-----------|----------------------------------|-------------|--------------------|--------------------------------|--|--|
| Pro | ject Infor | mation | | | | | | | | |
| Ana | lyst | | TCG | \Box | Date | | | 6/20/2022 | | |
| Age | ncy | | TCG | | Analysis | Year | | 2022 | | |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | Existing | | |
| Proj | ect Description | n | 01849_Buddy Rd. | | Units | | | U.S. Customary | | |
| | | | So | egm | gment 1 | | | | | |
| Vel | hicle Input | ts | | | | | | | | |
| Segi | ment Type | | Passing Constrained | П | Length, f | t | | 10212 | | |
| Lane | e Width, ft | | 10 | | Shoulder | · Width, ft | t | 3 | | |
| Speed Limit, mi/h 45 | | | | Access P | oint Dens | ity, pts/mi | 25.0 | | | |
| Demand and Capacity | | | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 126 | П | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| Peak | K Hour Factor | | 0.92 | | Total Tru | cks, % | | 3.00 | | |
| Segment Capacity, veh/h 1700 | | | | Demand | /Capacity | 0.07 | | | | |
| Intermediate Results | | | | | | | | | | |
| Segi | ment Vertical (| 2 | П | Free-Flov | w Speed, | mi/h | 41.7 | | | |
| Spe | ed Slope Coef | ficient | 3.26531 | | Speed Po | ower Coef | fficient | 0.41622 | | |
| PF S | lope Coefficie | nt | -1.47963 | | PF Power | r Coefficie | ent | 0.66356 | | |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 1.0 | | |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 | | |
| Sul | bsegment | Data | | | | | | | | |
| # | Segment Ty | pe | Length, ft | Radio | us, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | | 10212 | 1- | | | - | 40.9 | | |
| Vel | hicle Resu | lts | | | | | | | | |
| Avei | rage Speed, m | i/h | 40.9 | П | Percent F | ollowers, | . % | 31.2 | | |
| Segi | ment Travel Ti | me, minutes | 2.83 | | Follower | Density, | followers/mi/ln | 1.0 | | |
| Vehi | icle LOS | | А | | | | | | | |
| Bic | ycle Resul | ts | • | | | | | | | |
| Perc | ent Occupied | Parking | 0 | П | Pavemer | nt Conditi | on Rating | 4 | | |
| Flow Rate Outside Lane, veh/h 126 | | | | | Bicycle E | ffective W | /idth, ft | 18 | | |
| Bicycle LOS Score 3.55 | | | | | Bicycle E | ffective S | peed Factor | 4.42 | | |
| Bicy | cle LOS | | D | | | | | | | |
| Fac | ility Resul | ts | | | | | | | | |
| | Т | Follower | Density, followers/mi/ | 'In | | | LO | o'S | | |
| | 1 | | 1.0 | | | | A | | | |
| | | varsity of Florida, All Pights | | | o Varsian 7 | | | Gaparatad: 02/01/2023 12:28:58 | | |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|-------------------------------------|-----------------------------------|----------------------------------|-----------------------|-------|-------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| ., | | | Date | | | 6/20/2022 | | |
| Age | ncy | | TCG | | Analysis Year | | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 01847_White Bluff Rd. | Units | | | U.S. Customary | |
| | | | S | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 12234 |
| Lane | e Width, ft | | 11 | | Shoulder | · Width, ft | i | 4 |
| Spe | Speed Limit, mi/h 40 | | 40 | | Access P | oint Dens | ity, pts/mi | 28.0 |
| Demand and Capacity | | | <u>'</u> | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 180 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 3.00 |
| Segment Capacity, veh/h | | | | | Demand/Capacity (D/C) | | | 0.11 |
| Intermediate Results | | | | | | | | |
| Segi | Segment Vertical Class 2 | | 2 | 2 | | w Speed, | mi/h | 36.5 |
| Spe | ed Slope Coef | ficient | 3.68194 | | Speed Power Coefficient | | | 0.41622 |
| PF S | Slope Coefficie | nt | -1.52891 | | PF Power | r Coefficie | ent | 0.62799 |
| In Pa | assing Lane Ef | fective Length? | No Total Se | | | ment De | nsity, veh/mi/ln | 2.1 |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 12234 | - | | | - | 35.2 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 35.2 | | Percent F | ollowers, | % | 40.6 |
| Segi | ment Travel Ti | me, minutes | 3.95 | | Follower | Density, | followers/mi/ln | 2.1 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | • | | | | | |
| Percent Occupied Parking 0 | | | | | Pavemer | nt Conditi | on Rating | 4 |
| | Flow Rate Outside Lane, veh/h 180 | | | | Bicycle E | ffective W | /idth, ft | 19 |
| Bicy | Bicycle LOS Score 3.46 | | | | Bicycle E | ffective S | peed Factor | 4.17 |
| Bicy | Bicycle LOS C | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| T Follower Density, followers/mi/ln | | | | LOS | | | S | |
| | 1 | | 2.1 | | | | A | |
| | | varsity of Florida, All Diabts I | | | o Varsian 7 | | | Ganaratad: 02/01/2023 12:26:08 |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | |
|-------------------------------|----------------------------------|-------------------------------|-----------|----------------------------------|----------------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juri | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | ject Description | 01845_Old Colun Pamona Rd. | nbia Rd/ | Units | | | U.S. Customary | |
| | | | Segr | nent 1 | | | | |
| Ve | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrair | ned | Length, | ft | | 2973 | |
| Lan | e Width, ft | 12 | | Shoulde | r Width, f | t | 5 | |
| Spe | ed Limit, mi/h | 30 | | Access P | oint Dens | sity, pts/mi | 23.0 | |
| De | mand and Capacity | | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 224 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| | | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Segment Capacity, veh/h | | 1700 | | | /Capacity | (D/C) | 0.13 | |
| Int | termediate Results | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 27.7 | |
| Spe | ed Slope Coefficient | 4.39791 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.53010 | -1.53010 | | r Coefficie | ent | 0.60577 | |
| In P | assing Lane Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 4.0 | |
| %In | nproved % Followers | 0.0 | 0.0 % Imp | | % Improved Avg Speed | | 0.0 | |
| Su | bsegment Data | · | | • | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 2973 | - | | | - | 25.8 | |
| Ve | hicle Results | · | · | | | | | |
| Ave | rage Speed, mi/h | 25.8 | | Percent | Followers | , % | 46.1 | |
| Seg | ment Travel Time, minutes | 1.31 | | Follower | Density, | followers/mi/In | 4.0 | |
| Veh | icle LOS | В | | | | | | |
| Bio | cycle Results | | | | | | | |
| Percent Occupied Parking 0 | | | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow Rate Outside Lane, veh/h | | 224 | | | ffective V | Vidth, ft | 22 | |
| Bicy | vcle LOS Score | 2.69 | | Bicycle E | ffective S | peed Factor | 3.39 | |
| Bicy | vcle LOS | | | | | | | |
| Fac | cility Results | • | | | | | | |
| | T Follow | er Density, followers | /mi/ln | | | LC | os . | |
| 1 4.0 | | | | | В | | | |

| | HCS7 Two | -Lane | Highv | vay Rep | ort | | |
|-------------------------------------|---|-----------|----------------------------------|---------------|------------------|---------------------|--|
| Project Information | | | | | | | |
| Analyst | TCG | | Date | | | 6/20/2022 | |
| Agency | TCG | | Analysis Year | | | 2022 | |
| Jurisdiction | Dickson County | | Time An | alyzed | | Existing | |
| Project Description | 01843_E.Christy/G Branch/Lime Kiln/ St. | | Units | | | U.S. Customary | |
| | | Segn | nent 1 | | | | |
| Vehicle Inputs | | | | | | | |
| Segment Type | Passing Constrain | ned | Length, | ft | | 13258 | |
| Lane Width, ft | | Shoulde | r Width, ft | | 2 | | |
| Speed Limit, mi/h | 35 | | Access P | oint Density, | pts/mi | 16.0 | |
| Demand and Capacity | | | | | | • | |
| Directional Demand Flow Rate, veh/h | 107 | | Opposin | g Demand F | low Rate, veh/h | - | |
| Peak Hour Factor | 0.92 | | Total Trucks, % | | | 1.00 | |
| Segment Capacity, veh/h | 1700 | | Demand | /Capacity (D | /C) | 0.06 | |
| Intermediate Results | | | | | | • | |
| Segment Vertical Class | 2 | | Free-Flo | w Speed, mi/ | /h | 31.6 | |
| Speed Slope Coefficient | 4.08106 | | Speed Po | ower Coeffici | ent | 0.41622 | |
| PF Slope Coefficient | -1.55641 | | PF Power Coefficient | | | 0.59379 | |
| In Passing Lane Effective Length? | No | | Total Segment Density, veh/mi/ln | | | 1.2 | |
| %Improved % Followers | 0.0 | | % Improved Avg Speed 0.0 | | | | |
| Subsegment Data | | | | | | | |
| # Segment Type | Length, ft | Rad | lius, ft | Su | uperelevation, % | Average Speed, mi/h | |
| 1 Tangent | 13258 | - | | - | | 31.1 | |
| Vehicle Results | • | | | | | | |
| Average Speed, mi/h | 31.1 | | Percent | Followers, % | | 33.8 | |
| Segment Travel Time, minutes | 4.85 | | Follower | Density, foll | owers/mi/ln | 1.2 | |
| Vehicle LOS | А | | | | | | |
| Bicycle Results | | | | | | • | |
| Percent Occupied Parking 0 | | | | nt Condition | Rating | 4 | |
| Flow Rate Outside Lane, veh/h 107 | | | Bicycle E | ffective Widt | th, ft | 17 | |
| Bicycle LOS Score | | Bicycle E | ffective Spee | ed Factor | 3.84 | | |
| Bicycle LOS | icycle LOS C | | | | | | |
| Facility Results | | | | | | | |
| T Followe | r Density, followers, | /mi/ln | | | LC | os | |

1 1.2 A

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HCSTM Two-Lane Version 7.9.6 01843_23-27(mslink).xuf Generated: 02/01/2023 12:23:17

| | | HCS7 Two | -Lane | Highv | way Re | eport | | |
|----------------------------|----------------------------------|---------------------------------|-------------|-----------|-------------|--------------------|---------------------|--|
| Pro | oject Information | | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/20/2022 | |
| Age | ency | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | Dickson County | | Time An | alyzed | | Existing | |
| Proj | ect Description | 01808_Nubbin Ri Edgewodd Rd. | dge Rd/ | Units | | | U.S. Customary | |
| | | | Segr | nent 1 | | | | |
| Ve | hicle Inputs | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 12012 | |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 2 | |
| Spe | ed Limit, mi/h | 35 | | Access P | oint Dens | sity, pts/mi | 9.0 | |
| De | mand and Capacity | | | | | | • | |
| Dire | ectional Demand Flow Rate, veh/h | 22 | | Opposin | g Deman | d Flow Rate, veh/h | T- | |
| Peal | k Hour Factor | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Segment Capacity, veh/h | | 1700 | | | /Capacity | (D/C) | 0.01 | |
| Int | ermediate Results | | | | | | • | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 33.3 | |
| Spe | ed Slope Coefficient | 3.94487 | | Speed Po | ower Coe | fficient | 0.41622 | |
| PF S | Slope Coefficient | -1.52815 | -1.52815 | | r Coefficie | ent | 0.61287 | |
| In P | assing Lane Effective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 0.1 | |
| %lm | nproved % Followers | 0.0 | 0.0 % Impro | | | Speed | 0.0 | |
| Su | bsegment Data | · | | | | | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | 12012 | - | | | - | 33.3 | |
| Ve | hicle Results | | | | | | | |
| Ave | rage Speed, mi/h | 33.3 | | Percent | Followers | , % | 13.6 | |
| Seg | ment Travel Time, minutes | 4.11 | | Follower | Density, | followers/mi/ln | 0.1 | |
| Veh | icle LOS | А | | | | | | |
| Bic | cycle Results | | | | | | • | |
| Percent Occupied Parking 0 | | | | Pavemer | nt Conditi | on Rating | 4 | |
| | | 22 | | | ffective V | Vidth, ft | 22 | |
| Bicy | Bicycle LOS Score 1.67 | | | Bicycle E | ffective S | peed Factor | 3.84 | |
| Bicy | rcle LOS | | | | | | | |
| Fac | cility Results | | | | | | • | |
| | | er Density, followers | /mi/ln | | | LC | OS . | |
| 1 0.1 | | | | | A | | | |

| | | HCS7 Two-La | ne High | way Re | eport | | | |
|----------------------------------|-------------------------------------|-----------------------------|-------------|-------------------------------------|--------------------|---------------------|--|--|
| Project Inform | mation | | | | | | | |
| Analyst | | TCG | | | | 6/20/2022 | | |
| Agency | | TCG | Analys | Analysis Year | | 2022 | | |
| Jurisdiction | | Dickson County | Time A | nalyzed | | Existing | | |
| Project Description | 1 | 01420_New Dry Hollow Rd. | v Units | | | U.S. Customary | | |
| | | Se | egment | I | | | | |
| Vehicle Input | s | | | | | | | |
| Segment Type | | Passing Constrained | Length | , ft | | 32989 | | |
| Lane Width, ft 11 | | Should | er Width, f | t | 5 | | | |
| Speed Limit, mi/h | | 35 | Access | Point Dens | sity, pts/mi | 16.0 | | |
| Demand and | Capacity | | | | | | | |
| Directional Deman | d Flow Rate, veh/h | 54 | Oppos | ng Deman | d Flow Rate, veh/h | - | | |
| Peak Hour Factor | | 0.92 | Total T | ucks, % | | 3.00 | | |
| Segment Capacity, veh/h | | 1700 | Demar | Demand/Capacity (D/C) | | 0.03 | | |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class | | 2 | Free-F | ow Speed, | mi/h | 34.5 | | |
| Speed Slope Coeff | icient | 3.84374 | Speed | Power Coe | fficient | 0.41622 | | |
| PF Slope Coefficier | nt | -1.62126 | PF Pov | er Coeffici | ent | 0.59263 | | |
| In Passing Lane Eff | ective Length? | No Total Segment Dens | | | nsity, veh/mi/ln | 0.4 | | |
| %Improved % Follo | owers | 0.0 | % Imp | oved Avg S | 0.0 | | | |
| Subsegment | Data | | | | | | | |
| # Segment Typ | oe | Length, ft | Radius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 Tangent | | 32989 | - | | - | 34.5 | | |
| Vehicle Resul | ts | | | | | | | |
| Average Speed, mi | /h | 34.5 | Percen | t Followers | , % | 25.1 | | |
| Segment Travel Tin | ne, minutes | 10.87 | Follow | er Density, | followers/mi/ln | 0.4 | | |
| Vehicle LOS | | A | | | | | | |
| Bicycle Result | ts | | | | | | | |
| Percent Occupied I | Parking | 0 | Pavem | ent Conditi | on Rating | 4 | | |
| Flow Rate Outside Lane, veh/h 54 | | 54 | Bicycle | Effective V | Vidth, ft | 33 | | |
| Bicycle LOS Score | Sicycle LOS Score 0.00 | | | Bicycle Effective Speed Factor 3.84 | | | | |
| Bicycle LOS | icycle LOS A | | | , | | | | |
| Facility Resul | ts | | | | | • | | |
| Т | T Follower Density, followers/mi/ln | | | 1 LOS | | | | |
| 1 | | 0.4 | | A A | | | | |

| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-------------------------------------|----------------------------------|----------------------------------|---------------------|---------|----------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| ., | | | Date | | | 6/20/2022 | | |
| Age | ncy | | TCG | , | Analysis Year | | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | Existing |
| Proj | ect Description | n | 01798_Potter Rd. | Units | | | U.S. Customary | |
| | | | Se | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Ti | Length, f | t | | 8078 |
| Lane | e Width, ft | | 9 | : | Shoulder | · Width, ft | i | 2 |
| Spe | Speed Limit, mi/h 35 | | 35 | 1 | Access P | oint Dens | ity, pts/mi | 15.0 |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 39 | 1 | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | 1 | Total Tru | cks, % | | 3.00 |
| Segment Capacity, veh/h | | | | | Demand/Capacity (D/C) | | | 0.02 |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class | | | 2 | T | Free-Flov | w Speed, | mi/h | 31.5 |
| Spe | ed Slope Coef | ficient | 4.09049 | | Speed Power Coefficient | | | 0.41622 |
| PF S | Slope Coefficie | nt | -1.47666 | | PF Powei | r Coefficie | ent | 0.62495 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 0.2 |
| %lm | nproved % Foll | owers | 0.0 | (| % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 8078 | - | | | - | 31.5 |
| Vel | hicle Resul | lts | | | | | | |
| Avei | rage Speed, m | i/h | 31.5 | Ti | Percent F | ollowers, | % | 17.7 |
| Segi | ment Travel Ti | me, minutes | 2.92 | | Follower | Density, | followers/mi/ln | 0.2 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | | | | | | |
| Percent Occupied Parking 0 | | | T | Pavemen | nt Conditi | on Rating | 4 | |
| Flow | Flow Rate Outside Lane, veh/h 39 | | | 1 | Bicycle Effective Width, ft | | | 20 |
| Bicy | Bicycle LOS Score 2.38 | | | 1 | Bicycle E | ffective S | peed Factor | 3.84 |
| Bicy | Bicycle LOS B | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| T Follower Density, followers/mi/ln | | | | ln | LOS | | | S |
| | 1 | | 0.2 | | A | | | |
| C | : h. @ 2022 II.: | varsity of Florida, All Pights I | | | o Varsian 7 | 7.0.6 | | Ganaratad: 02/01/2023 12:18:26 |

| | | HCS7 Two-La | ne High | way Re | eport | | | |
|----------------------------------|------------------------|----------------------------------|------------|-------------------------------------|--------------------|---------------------|--|--|
| Project Inform | ation | | | | | | | |
| Analyst | | | Date | | | 6/17/2022 | | |
| Agency | | TCG | Analysis | Analysis Year | | 2022 | | |
| Jurisdiction | | Dickson County | Time Ar | nalyzed | | Existing | | |
| Project Description | | 00967_Old Hwy 48/ Stayton Rd. | Units | | | U.S. Customary | | |
| | | Se | egment 1 | | | | | |
| Vehicle Inputs | | | | | | | | |
| Segment Type | | Passing Constrained | Length, | ft | | 17392 | | |
| Lane Width, ft 9 | | 9 | Shoulde | er Width, f | t | 3 | | |
| Speed Limit, mi/h | | 45 | Access | Point Dens | sity, pts/mi | 13.0 | | |
| Demand and C | Capacity | | | | | | | |
| Directional Demand | Flow Rate, veh/h | 59 | Opposi | ng Deman | d Flow Rate, veh/h | - | | |
| Peak Hour Factor | | 0.92 | Total Tr | ıcks, % | | 3.00 | | |
| Segment Capacity, veh/h | | 1700 | Deman | d/Capacity | , (D/C) | 0.03 | | |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class | | 2 | Free-Flo | w Speed, | mi/h | 44.0 | | |
| Speed Slope Coeffic | ient | 3.11550 | Speed F | ower Coe | fficient | 0.41622 | | |
| PF Slope Coefficient | | -1.59015 | PF Powe | er Coefficie | ent | 0.63465 | | |
| In Passing Lane Effec | ctive Length? | No Total Segme | | | nsity, veh/mi/ln | 0.3 | | |
| %Improved % Follow | vers | 0.0 | % Impro | oved Avg S | 0.0 | | | |
| Subsegment D | ata | | | | | , | | |
| # Segment Type | | Length, ft | Radius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 Tangent | | 17392 | - | | - | 44.0 | | |
| Vehicle Results | s | | | | | | | |
| Average Speed, mi/ł | า | 44.0 | Percent | Followers | , % | 23.1 | | |
| Segment Travel Time | | 4.49 | Followe | r Density, | followers/mi/ln | 0.3 | | |
| Vehicle LOS | | Α | | | | | | |
| Bicycle Results | , | | | | | • | | |
| Percent Occupied Pa | arking | 0 | Paveme | nt Conditi | on Rating | 4 | | |
| Flow Rate Outside Lane, veh/h 59 | | | | Effective V | | 21 | | |
| Bicycle LOS Score | Sicycle LOS Score 2.58 | | | Bicycle Effective Speed Factor 4.42 | | | | |
| Bicycle LOS | · | | | July Sie Effective Speed Fuctor | | | | |
| Facility Results | | | | | | | | |
| T | | | | n LOS | | | | |
| 1 | | 0.3 | | | , , | 1 | | |

| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | |
|-----------------------------------|---|---|-------------|-----------------|---|--------------------|--------------------------------|
| Pro | oject Information | | | | | | |
| Ana | llyst | TCG | | Date | | | 6/17/2022 |
| Age | ency | TCG Analysis Year Dickson County Time Analyzed | | 2022 | | | |
| | sdiction | Dickson County | | - | | | Existing |
| Proj | ject Description | 00967_Maple Val | lley Rd. | Units | | | U.S. Customary |
| | | | Seg | ment 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, f | ft | | 22598 |
| | e Width, ft | 10 | | _ | r Width, ft | i | 3 |
| | ed Limit, mi/h | 45 | | | | ity, pts/mi | 13.0 |
| De | mand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 126 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| | k Hour Factor | 0.92 | | Total Tru | | | 3.00 |
| | ment Capacity, veh/h | | | | /Capacity | (D/C) | 0.07 |
| | termediate Results | | | | , , | | |
| Sea | ment Vertical Class | 2 | | Free-Flov | w Speed, | mi/h | 44.6 |
| | ed Slope Coefficient | 3.11550 | 3.11550 | | ower Coef | | 0.41622 |
| | Slope Coefficient | -1.58692 | | | r Coefficie | | 0.63683 |
| | assing Lane Effective Length? | No | | Total Sec | gment De | nsity, veh/mi/ln | 1.0 |
| %lm | nproved % Followers | 0.0 | | % Impro | ved Avg S | Speed | 0.0 |
| Sul | bsegment Data | | | | | | |
| # | Segment Type | Length, ft | Ra | ndius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 22598 | - | | | - | 44.0 |
| Vel | hicle Results | | | | | | - |
| Ave | rage Speed, mi/h | 44.0 | | Percent I | Followers, | <u> </u> | 34.6 |
| | ment Travel Time, minutes | 5.84 | | | | followers/mi/ln | 1.0 |
| | icle LOS | Α | | | | | |
| Bic | cycle Results | | | | | | |
| Perc | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 126 | | | | | | | 18 |
| Bicy | Bicycle LOS Score 3.55 | | | | Bicycle Effective Width, ft Bicycle Effective Speed Factor | | 4.42 |
| Bicy | Bicycle LOS D | | | | | | |
| Fac | cility Results | | | | | | |
| | T Followe | r Density, followers | s/mi/ln | | | LC | os |
| | 1 | 1.0 | | | | | 1 |
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| | | | HCS7 Two-La | ane l | Highv | vay Re | eport | |
|-------------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-------------------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| . , | | | Date | | | 6/17/2022 | | |
| Age | ncy | | TCG | , | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | |
| Proj | ect Description | n | 00965_Garners Creek F | Units | | | U.S. Customary | |
| | | | Se | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | Ī | Length, f | t | | 39494 |
| Lane | e Width, ft | | 10 | 9 | Shoulder | · Width, ft | i | 2 |
| Spe | Speed Limit, mi/h 45 | | , | Access P | oint Dens | ity, pts/mi | 14.0 | |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 48 | (| Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | - | Total Tru | cks, % | | 3.00 |
| Segment Capacity, veh/h | | | | | Demand/Capacity (D/C) | | | 0.03 |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class | | 2 | Ī | Free-Flow Speed, mi/h | | | 43.7 | |
| Spe | ed Slope Coef | ficient | 3.11550 | 9 | Speed Po | ower Coef | fficient | 0.41622 |
| PF S | Slope Coefficie | nt | -1.59197 | | PF Powei | r Coefficie | ent | 0.63336 |
| In Pa | assing Lane Ef | fective Length? | No | - | Total Segment Density, veh/mi/ln | | | 0.2 |
| %lm | nproved % Foll | owers | 0.0 | (| % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radiu | ıs, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 39494 | - | | | - | 43.7 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 43.7 | ı | Percent F | ollowers, | % | 20.7 |
| Segi | ment Travel Ti | me, minutes | 10.27 | - | Follower | Density, 1 | followers/mi/ln | 0.2 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | <u> </u> | | | | | |
| Percent Occupied Parking 0 | | | ı | Pavemen | ıt Conditi | on Rating | 4 | |
| Flow | Flow Rate Outside Lane, veh/h 48 | | | 1 | Bicycle E | ffective W | /idth, ft | 21 |
| Bicy | Bicycle LOS Score 2.48 | | | 1 | Bicycle E | ffective S _I | peed Factor | 4.42 |
| Bicy | Bicycle LOS B | | | | | | | |
| Fac | cility Resul | ts | | | | | | |
| T Follower Density, followers/mi/ln | | | | ln | LOS | | | S |
| | 1 | | 0.2 | | A | | | |
| | :.l. @ 2022 II.: | varsity of Florida, All Diabts I | | | o Varsian 7 | | | Ganaratad: 02/01/2023 12:10:12 |

| | | HCS7 Two | o-Lane | e Highv | vay Re | eport | |
|-------------------------------------|---|---|------------|--------------------------------|----------------------|--------------------|--------------------------------|
| Pro | oject Information | | | | | | |
| Ana | lyst | TCG | | Date | | | 6/17/2022 |
| Age | ncy | TCG Analysis Year Dickson County Time Analyzed | | 2022 | | | |
| | sdiction | Dickson County | | Time An | alyzed | | |
| Proj | ect Description | 00957_Spencers | Mill Rd. | Units | | | U.S. Customary |
| | | | Segi | ment 1 | | | |
| Vel | hicle Inputs | | | | | | |
| Seg | ment Type | Passing Constrai | ned | Length, f | ft | | 26352 |
| | e Width, ft | 10 | - | | r Width, f | i | 2 |
| Spe | ed Limit, mi/h | 45 | | _ | | ity, pts/mi | 20.0 |
| De | Demand and Capacity | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 96 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| | k Hour Factor | 0.92 | | Total Tru | | | 3.00 |
| Seg | ment Capacity, veh/h | | | _ | /Capacity | (D/C) | 0.06 |
| | ermediate Results | | | | | | |
| Sea | ment Vertical Class | 2 | | Free-Flov | w Speed, | mi/h | 42.2 |
| _ | ed Slope Coefficient | 3.22095 | | _ | ower Coe | | 0.41622 |
| | Slope Coefficient | -1.59927 | | , | r Coefficie | | 0.62762 |
| | assing Lane Effective Length? | No | | Total Sec | gment De | nsity, veh/mi/ln | 0.7 |
| %lm | nproved % Followers | 0.0 | | % Impro | % Improved Avg Speed | | 0.0 |
| Su | bsegment Data | <u>'</u> | | | | | |
| # | Segment Type | Length, ft | Ra | dius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | 26352 | - | <u> </u> | | - | 42.2 |
| Vel | hicle Results | | | | | | |
| Ave | rage Speed, mi/h | 42.2 | | Percent I | Followers, | % | 30.7 |
| | ment Travel Time, minutes | 7.10 | | | | followers/mi/ln | 0.7 |
| | icle LOS | A | | | | | |
| Bic | cycle Results | | | 1 | | | |
| | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 |
| Flow Rate Outside Lane, veh/h 96 | | | | | ffective W | | 19 |
| | Bicycle LOS Score 3.23 | | | Bicycle Effective Speed Factor | | | 4.42 |
| Bicy | rcle LOS | С | | | | | |
| Fac | cility Results | | | | | | |
| T Follower Density, followers/mi/ln | | | LOS | | | os | |
| | 1 | 0.7 | • • • • | | | Α | |
| Copyr | right © 2023 University of Florida, All Right | | CS TIME 20 | ane Version 7 | 7.0.6 | <u> </u> | Generated: 02/01/2023 12:07:22 |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|-------------------------------------|----------------------------------|--------------------------------|-----------------------|----------|----------------------------------|-------------------------|--------------------|--------------------------------|
| Pro | ject Infor | mation | | | | | | |
| . , | | | Date | | | 6/17/2022 | | |
| Age | ncy | | TCG | | Analysis Year | | | 2022 |
| Juris | diction | | Dickson County | | Time Ana | alyzed | | |
| Proj | ect Description | n | 00957_Spencers Mill R | Units | | | U.S. Customary | |
| | | | S | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 18871 |
| Lane | e Width, ft | | 10 | | Shoulder | r Width, ft | i | 2 |
| Spe | Speed Limit, mi/h 45 | | | Access P | oint Dens | ity, pts/mi | 18.0 | |
| Demand and Capacity | | | | | | | | |
| Dire | ctional Demar | nd Flow Rate, veh/h | 76 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | K Hour Factor | | 0.92 | | Total Tru | cks, % | | 1.00 |
| Segment Capacity, veh/h 170 | | | 1700 | | | /Capacity | (D/C) | 0.04 |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class 2 | | | 2 | | Free-Flov | w Speed, | mi/h | 42.8 |
| Spe | ed Slope Coef | ficient | 3.17502 | | Speed Power Coefficient | | | 0.41622 |
| PF S | lope Coefficie | nt | -1.59898 | | PF Power | r Coefficie | ent | 0.62859 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 0.5 |
| %lm | proved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | ius, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 18871 | - | | | - | 42.8 |
| Vel | hicle Resu | lts | | | | | | · |
| Avei | rage Speed, m | i/h | 42.8 | | Percent F | ollowers, | % | 27.1 |
| Segi | ment Travel Ti | me, minutes | 5.01 | | Follower | Density, 1 | followers/mi/ln | 0.5 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | <u>'</u> | | | | | |
| Percent Occupied Parking 0 | | | | | Pavemer | nt Condition | on Rating | 4 |
| Flow | Flow Rate Outside Lane, veh/h 76 | | | | Bicycle E | ffective W | /idth, ft | 20 |
| Bicy | Bicycle LOS Score 2.47 | | | | Bicycle E | ffective S _I | peed Factor | 4.42 |
| Bicy | Bicycle LOS B | | | | | | | |
| Fac | ility Resul | ts | | | | | | |
| T Follower Density, followers/mi/ln | | | | LOS | | | S | |
| | 1 | | 0.5 | | A A | | | |
| | | varsity of Florida, All Pights | | _ | no Vorcion 7 | | | Caparatad: 02/01/2023 12:08:36 |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | |
|-------------------------------------|----------------------------------|----------------------------------|----------------------|-----------|----------------------------------|-------------|--------------------|--------------------------------|
| Pro | oject Infor | mation | | | | | | |
| . , | | | Date | | | 6/17/2022 | | |
| Age | ncy | | TCG | | Analysis | Year | | 2022 |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | |
| Proj | ect Description | n | 00954_Cathy Hollow R | Units | | | U.S. Customary | |
| | | | So | egm | ent 1 | | | |
| Vel | hicle Input | ts | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 12672 |
| Lane | e Width, ft | 9 | | Shoulder | · Width, ft | i | 2 | |
| Spe | Speed Limit, mi/h 45 | | Access P | oint Dens | ity, pts/mi | 12.0 | | |
| Demand and Capacity | | | | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 17 | | Opposin | g Deman | d Flow Rate, veh/h | - |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 1.00 |
| Segment Capacity, veh/h 170 | | | 1700 | | | /Capacity | (D/C) | 0.01 |
| Intermediate Results | | | | | | | | |
| Segment Vertical Class 2 | | | 2 | | Free-Flow Speed, mi/h | | | 43.7 |
| Spe | ed Slope Coef | ficient | 3.11550 | | Speed Po | ower Coef | fficient | 0.41622 |
| PF S | Slope Coefficie | nt | -1.51553 | | PF Power | r Coefficie | ent | 0.65458 |
| In Pa | assing Lane Ef | fective Length? | No | | Total Segment Density, veh/mi/ln | | | 0.0 |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 |
| Sul | bsegment | Data | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | us, ft | | Superelevation, % | Average Speed, mi/h |
| 1 | Tangent | | 12672 | - | | | - | 43.7 |
| Vel | hicle Resu | lts | | | | | | |
| Avei | rage Speed, m | i/h | 43.7 | | Percent F | ollowers, | % | 10.1 |
| Segi | ment Travel Ti | me, minutes | 3.30 | | Follower | Density, | followers/mi/ln | 0.0 |
| Vehi | icle LOS | | А | | | | | |
| Bic | ycle Resul | ts | | | | | | |
| Percent Occupied Parking 0 | | | | | Pavemer | nt Conditi | on Rating | 4 |
| Flow | Flow Rate Outside Lane, veh/h 17 | | | | Bicycle Effective Width, ft | | | 21 |
| Bicy | Bicycle LOS Score 1.51 | | | | Bicycle E | ffective S | peed Factor | 4.42 |
| Bicy | Bicycle LOS B | | | | | | | |
| Fac | ility Resul | ts | | | | | | |
| T Follower Density, followers/mi/ln | | | | ln | LOS | | | S |
| | 1 | | 0.0 | | A A | | | |
| C | : h. @ 2022 II.: | varsity of Florida, All Pights I | | | o Varsian 7 | | | Ganaratad: 02/01/2023 12:04:30 |

| | | | HCS7 Two-La | ane | Highv | vay Re | eport | | |
|------------------------|------------------|--------------------------------|------------------------|--------------------------------|-----------------------------------|-------------|--------------------|--------------------------------|--|
| Pro | oject Infor | mation | | | | | | | |
| Ana | lyst | | TCG | | Date | | | 6/17/2022 | |
| Age | ncy | | TCG | | Analysis | Year | | 2022 | |
| Juris | sdiction | | Dickson County | | Time Ana | alyzed | | | |
| Proj | ect Description | n | 00956_Rock Springs Ro | d. | Units | | | U.S. Customary | |
| | | | So | egm | ent 1 | | | | |
| Vel | hicle Input | ts | | | | | | | |
| Segi | ment Type | | Passing Constrained | | Length, f | t | | 16315 | |
| Lane | Lane Width, ft 9 | | | | Shoulder | r Width, ft | t | 2 | |
| Spe | ed Limit, mi/h | | 45 | | Access P | oint Dens | sity, pts/mi | 12.0 | |
| De | mand and | Capacity | • | ' | | | | | |
| Dire | ectional Demar | nd Flow Rate, veh/h | 16 | | Opposin | g Deman | d Flow Rate, veh/h | - | |
| Peak | k Hour Factor | | 0.92 | | Total Tru | cks, % | | 3.00 | |
| Segi | ment Capacity | , veh/h | 1700 | Demand | /Capacity | (D/C) | 0.01 | | |
| Int | ermediate | Results | ' | | | | | | |
| Segment Vertical Class | | | 2 | T | Free-Flov | w Speed, | mi/h | 43.6 | |
| Spe | ed Slope Coef | ficient | 3.11550 | | Speed Power Coefficient | | | 0.41622 | |
| PF S | Slope Coefficie | nt | -1.59249 | | PF Power | r Coefficie | ent | 0.63299 | |
| In Pa | assing Lane Ef | fective Length? | No | | Total Seg | gment De | nsity, veh/mi/ln | 0.0 | |
| %lm | nproved % Foll | owers | 0.0 | | % Improved Avg Speed | | | 0.0 | |
| Sul | bsegment | Data | | | | | | | |
| # | Segment Ty | pe | Length, ft | Radi | us, ft | | Superelevation, % | Average Speed, mi/h | |
| 1 | Tangent | | 16315 | - | | | - | 43.6 | |
| Vel | hicle Resu | lts | | | | | | | |
| Avei | rage Speed, m | i/h | 43.6 | | Percent F | -ollowers, | , % | 11.1 | |
| Segi | ment Travel Ti | me, minutes | 4.25 | | Follower Density, followers/mi/ln | | | 0.0 | |
| Vehi | icle LOS | | А | | 97 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | | | |
| Bic | ycle Resul | ts | • | | | | | | |
| Perc | ent Occupied | Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | |
| Flow | v Rate Outside | Lane, veh/h | 16 | | Bicycle Effective Width, ft | | | 21 | |
| Bicycle LOS Score | | 1.92 | | Bicycle Effective Speed Factor | | | 4.42 | | |
| Bicy | cle LOS | | В | | | | | | |
| Fac | ility Resul | ts | | | | | | | |
| | Т | Follower | Density, followers/mi/ | ln | | | LO | o'S | |
| | 1 | | 0.0 | | | | A | | |
| | | varsity of Florida, All Pights | | | no Vorsion 7 | | | Gaparatad: 02/01/2023 12:05:43 | |

| | | HCS7 Two | o-Lane | Highv | way Re | eport | | | |
|------|----------------------------------|---------------------------|----------|-----------------------------------|------------|--------------------|---------------------|--|--|
| Pro | oject Information | | | | | | | | |
| Ana | ılyst | TCG | | Date | | | 6/17/2022 | | |
| Age | ency | TCG | | Analysis | Year | | 2022 | | |
| Juri | sdiction | Dickson County | | Time An | alyzed | | | | |
| Proj | ject Description | 00952_Abiff Rd/0 46 S. | Old Hwy | Units | | | U.S. Customary | | |
| | | | Segr | nent 1 | | | | | |
| Ve | hicle Inputs | | | | | | | | |
| Seg | ment Type | Passing Constrain | ned | Length, | ft | | 21769 | | |
| Lan | e Width, ft | 10 | | Shoulde | r Width, f | t | 3 | | |
| Spe | ed Limit, mi/h | 40 | | Access P | oint Dens | sity, pts/mi | 20.0 | | |
| De | mand and Capacity | | | | | | | | |
| Dire | ectional Demand Flow Rate, veh/h | 111 | | Opposin | g Deman | d Flow Rate, veh/h | - | | |
| Pea | k Hour Factor | 0.92 | 0.92 | | | | 1.00 | | |
| Seg | ment Capacity, veh/h | 1700 | 1700 | | | (D/C) | 0.07 | | |
| Int | termediate Results | | | | | | | | |
| Seg | ment Vertical Class | 2 | | Free-Flo | w Speed, | mi/h | 37.3 | | |
| Spe | ed Slope Coefficient | 3.61993 | | Speed Po | ower Coe | fficient | 0.41622 | | |
| PF S | Slope Coefficient | -1.61902 | -1.61902 | | r Coeffici | ent | 0.60513 | | |
| In P | assing Lane Effective Length? | No | No | | gment De | nsity, veh/mi/ln | 1.1 | | |
| %ln | nproved % Followers | 0.0 | 0.0 | | ved Avg S | Speed | 0.0 | | |
| Su | bsegment Data | | | | | | · | | |
| # | Segment Type | Length, ft | Rad | dius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 | Tangent | 21769 | - | | | - | 36.7 | | |
| Ve | hicle Results | | | | | | | | |
| Ave | rage Speed, mi/h | 36.7 | | Percent | Followers | , % | 34.8 | | |
| Seg | ment Travel Time, minutes | 6.74 | | Follower Density, followers/mi/ln | | | 1.1 | | |
| Veh | icle LOS | А | | | | | | | |
| Bio | cycle Results | | | | | | | | |
| Pero | cent Occupied Parking | 0 | | Pavemer | nt Conditi | on Rating | 4 | | |
| | v Rate Outside Lane, veh/h | 111 | | | ffective V | Vidth, ft | 19 | | |
| Bicy | vcle LOS Score | 2.80 | | Bicycle E | ffective S | peed Factor | 4.17 | | |
| Bicy | vcle LOS | С | | | | | | | |
| Fac | cility Results | | | | | | | | |
| | T Follow | er Density, followers | s/mi/ln | | | LC | os | | |
| | 1 | 1.1 | | | | | A | | |

| | | HCS7 Two-La | ne High | way Re | eport | | | |
|---------------------|--------------------|------------------------------------|------------|---|--------------------|---------------------|--|--|
| Project Inform | mation | | | | | | | |
| Analyst | | TCG | Date | | | 6/17/2022 | | |
| Agency | | TCG | Analysi | Year | | 2022 | | |
| Jurisdiction | | Dickson County | Time A | nalyzed | | | | |
| Project Description | 1 | 00839_Bowker Rd/Rock Springs Rd | c Units | | | U.S. Customary | | |
| | | Se | egment 1 | | | | | |
| Vehicle Input | S | | | | | | | |
| Segment Type | | Passing Constrained | Length, | ft | | 20439 | | |
| Lane Width, ft | | 9 | Shoulde | er Width, f | t | 2 | | |
| Speed Limit, mi/h | | 35 | Access | Point Dens | sity, pts/mi | 18.0 | | |
| Demand and | Capacity | | | | | | | |
| Directional Deman | d Flow Rate, veh/h | 43 | Opposi | ng Deman | d Flow Rate, veh/h | - | | |
| Peak Hour Factor | | 0.92 | Total Tr | ucks, % | | 1.00 | | |
| Segment Capacity, | veh/h | 1700 | Deman | d/Capacity | , (D/C) | 0.03 | | |
| Intermediate | Results | | | | | • | | |
| Segment Vertical C | Class | 2 | Free-Flo | w Speed, | mi/h | 30.8 | | |
| Speed Slope Coeff | icient | 4.14578 | Speed I | Power Coe | fficient | 0.41622 | | |
| PF Slope Coefficier | nt | -1.62330 | PF Pow | er Coefficie | ent | 0.57052 | | |
| In Passing Lane Eff | ective Length? | No | Total Se | gment De | nsity, veh/mi/ln | 0.3 | | |
| %Improved % Follo | owers | 0.0 | % Impr | oved Avg S | Speed | 0.0 | | |
| Subsegment | Data | | , | | | 1 | | |
| # Segment Typ | De | Length, ft | Radius, ft | | Superelevation, % | Average Speed, mi/h | | |
| 1 Tangent | | 20439 | - | | - | 30.8 | | |
| Vehicle Resul | ts | | | | | | | |
| Average Speed, mi | //h | 30.8 | Percent | Followers | , % | 23.8 | | |
| Segment Travel Tir | | 7.55 | | | followers/mi/ln | 0.3 | | |
| Vehicle LOS | | A | | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | |
| Bicycle Resul | ts | | | | | | | |
| Percent Occupied I | | 0 | Paveme | nt Conditi | on Rating | 4 | | |
| Flow Rate Outside | | 43 | | Effective V | | 20 | | |
| Bicycle LOS Score | | 2.04 | - | | peed Factor | 3.84 | | |
| Bicycle LOS | | В | | | | | | |
| Facility Resul | ts | | | | | | | |
| Т | | Density, followers/mi/l | n | | LC | OS . | | |
| 1 | | 0.3 | | A | | | | |



Crash Data

Vehicular, Pedestrian, & Bicycle

Analysis of Crash Severity and Collision Type

Crash severity and collision type are analyzed with respect to segments and intersections. Figure 11 through 14 shows the intersection and segments crashes in relation to the crash severity. Table 6 through Table 8 describes the crash severity and manner of collision.

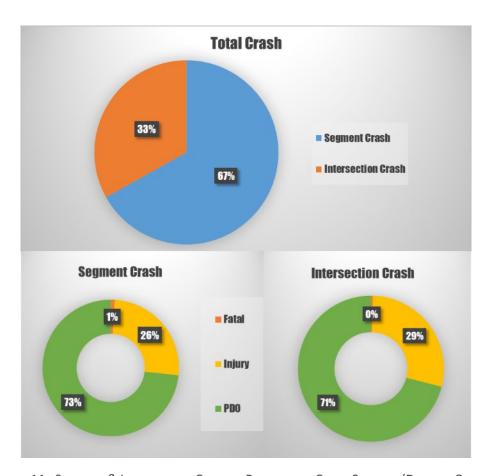


FIGURE 11: SEGMENT & INTERSECTION CRASH IN RELATION TO CRASH SEVERITY (DICKSON COUNTY)



| TABLE 6: CRASH SEVERITY AND MANNER OF COLLISION (| DICKSON COUNTY) | |
|---|-----------------|--|
|---|-----------------|--|

| | | | | | Dickson | County | | | | | | |
|--------------------|------------------|-------|-----------------------|-------|---------|--------|--------|-------|-------|-------|-------------|-------|
| Collision Type | Segment Crash | | Intersection Crash | | Fatal | | Injury | | PDO | | Total Crash | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Angle | 564 | 15.9 | 543 | 31.1 | 12 | 27.9 | 386 | 26.9 | 729 | 18.7 | 1,127 | 21.0 |
| No Collision | 1,313 | 37.1 | 199 | 11.4 | 23 | 53.5 | 483 | 33.7 | 1,019 | 26.2 | 1,525 | 28.4 |
| W/ Vehicle | | | | | | | | | | | | |
| Oppo_head_ | 207 | 5.8 | 120 | 6.9 | 8 | 18.6 | 113 | 7.9 | 210 | 5.4 | 331 | 6.1 |
| sideswipe | | | | | | | | | | | | |
| Rear-End | 991 | 28.0 | 674 | 38.6 | 0 | 0.0 | 389 | 27.2 | 1,309 | 33.6 | 1,698 | 31.6 |
| Sideswipe | 296 | 8.4 | 112 | 6.4 | 0 | 0.0 | 27 | 1.9 | 391 | 10.0 | 418 | 7.8 |
| Unknown | 171 | 4.8 | 99 | 5.6 | 0 | 0.0 | 35 | 2.4 | 239 | 6.1 | 274 | 5.1 |
| Grand Total | 3,542 | 100.0 | 1,747 | 100.0 | 43 | 100.0 | 1,433 | 100.0 | 3,897 | 100.0 | 5,373 | 100.0 |

Notes on Dickson County

- ➤ Road segment crashes are 30% higher than intersection crashes.
- > Segment crashes are mainly due to no collision with vehicle (37%) and rear-end (28%).
- As expected, intersection crashes occur mostly due to angle (31%) and rear-end (39%).

DRAFT

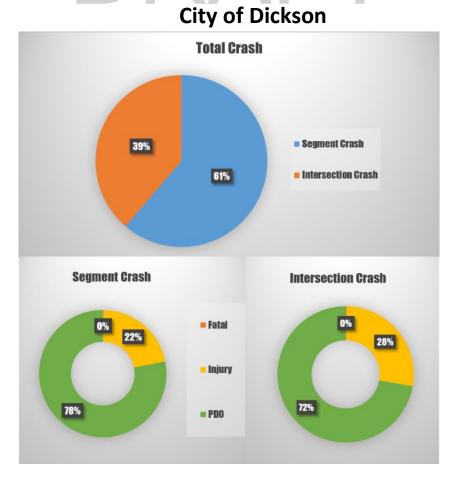


FIGURE 12: SEGMENT & INTERSECTION CRASH IN RELATION TO CRASH SEVERITY (CITY OF DICKSON)

TABLE 7: CRASH SEVERITY AND MANNER OF COLLISION (CITY OF DICKSON)

| | City of Dickson | | | | | | | | | | | | |
|--------------------|------------------|-------|-----------------------|-------|-------|-------|--------|-------|-------|-------|-------------|-------|--|
| Collision Type | Segment Crash | | Intersection Crash | | Fatal | | Injury | | PDO | | Total Crash | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Angle | 419 | 23.6 | 343 | 30.6 | 3 | 37.5 | 242 | 33.9 | 533 | 23.7 | 778 | 26.2 | |
| No Collision | 256 | 14.4 | 59 | 5.2 | 4 | 50.0 | 111 | 15.5 | 209 | 9.3 | 324 | 10.9 | |
| W/ Vehicle | | | | | | | | | | | | | |
| Oppo_head_ | 95 | 5.3 | 76 | 6.8 | 1 | 12.5 | 60 | 8.4 | 114 | 5.1 | 175 | 5.9 | |
| sideswipe | | | | | | | | | | | | | |
| Rear-End | 640 | 36.0 | 486 | 43.3 | 0 | 0.0 | 254 | 35.6 | 903 | 40.1 | 1,157 | 38.9 | |
| Sideswipe | 250 | 14.1 | 84 | 7.5 | 0 | 0.0 | 19 | 2.7 | 323 | 14.4 | 342 | 11.5 | |
| Unknown | 118 | 6.6 | 74 | 6.6 | 0 | 0.0 | 28 | 3.9 | 167 | 7.4 | 195 | 6.6 | |
| Grand Total | 1,778 | 100.0 | 1,122 | 100.0 | 8 | 100.0 | 714 | 100.0 | 2,249 | 100.0 | 2,971 | 100.0 | |

Town of White Bluff

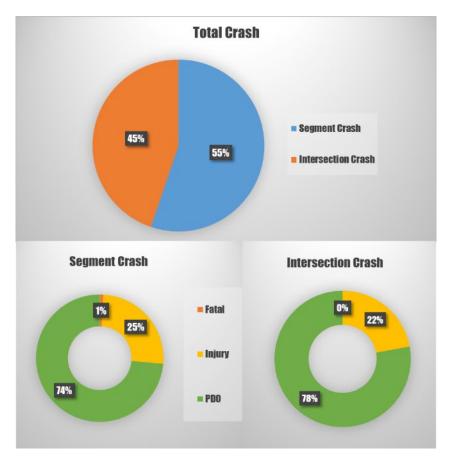


FIGURE 13: SEGMENT & INTERSECTION CRASH IN RELATION TO CRASH SEVERITY (TOWN OF WHITE BLUFF)

TABLE 8: CRASH SEVERITY AND MANNER OF COLLISION (TOWN OF WHITE BLUFF)

| | Town of White Bluff | | | | | | | | | | | | | |
|--------------------|---------------------|-------|-----------------------|-------|-------|-------|--------|-------|-----|-------|-------------|-------|--|--|
| Collision Type | Segment Crash | | Intersection Crash | | Fatal | | Injury | | PDO | | Total Crash | | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | | |
| Angle | 7 | 6.6 | 12 | 14.0 | 0 | 0.0 | 1 | 2.2 | 18 | 12.4 | 19 | 9.9 | | |
| No Collision | 39 | 36.8 | 18 | 20.9 | 0 | 0.0 | 19 | 41.3 | 38 | 26.2 | 57 | 29.7 | | |
| W/ Vehicle | | | | | | | | | | | | | | |
| Oppo_head_ | 10 | 9.4 | 11 | 12.8 | 1 | 100.0 | 4 | 8.7 | 16 | 11.0 | 21 | 10.9 | | |
| sideswipe | | | | | | | | | | | | | | |
| Rear-End | 37 | 34.9 | 32 | 37.2 | 0 | 0.0 | 19 | 41.3 | 50 | 34.5 | 69 | 35.9 | | |
| Sideswipe | 8 | 7.6 | 6 | 7.0 | 0 | 0.0 | 1 | 2.2 | 13 | 9.0 | 14 | 7.3 | | |
| Unknown | 5 | 4.7 | 7 | 8.1 | 0 | 0.0 | 2 | 4.3 | 10 | 6.9 | 12 | 6.3 | | |
| Grand Total | 106 | 100.0 | 86 | 100.0 | 1 | 100.0 | 46 | 100.0 | 145 | 100.0 | 192 | 100.0 | | |

DRAFT Town of Burns

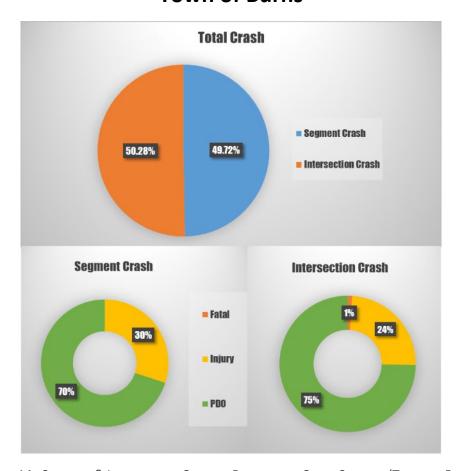


FIGURE 14: SEGMENT & INTERSECTION CRASH IN RELATION TO CRASH SEVERITY (TOWN OF BURNS)

Table 9: Crash Severity and Manner of Collision (Town of Burns)

| | | | | | Town of Burns | | | | | | | | |
|--------------------|------------------|-------|-----------------------|-------|---------------|-------|--------|-------|-----|-------|-------------|-------|--|
| Collision Type | Segment Crash | | Intersection Crash | | Fatal | | Injury | | PDO | | Total Crash | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Angle | 11 | 12.2 | 34 | 37.3 | 0 | 0.0 | 18 | 36.8 | 27 | 20.6 | 45 | 24.9 | |
| No Collision | 43 | 47.8 | 8 | 8.8 | 1 | 100.0 | 13 | 26.5 | 37 | 28.3 | 51 | 28.2 | |
| W/ Vehicle | | | | | | | | | | | | | |
| Oppo_head_ | 7 | 7.8 | 8 | 8.8 | 0 | 0.0 | 4 | 8.2 | 11 | 8.4 | 15 | 8.3 | |
| sideswipe | | | | | | | | | | | | | |
| Rear-End | 25 | 27.8 | 29 | 31.9 | 0 | 0.0 | 12 | 24.5 | 42 | 32.1 | 54 | 29.8 | |
| Sideswipe | 3 | 3.3 | 5 | 5.5 | 0 | 0.0 | 1 | 2.0 | 7 | 5.3 | 8 | 4.4 | |
| Unknown | 1 | 1.1 | 7 | 7.7 | 0 | 0.0 | 1 | 2.0 | 7 | 5.3 | 8 | 4.4 | |
| Grand Total | 90 | 100.0 | 91 | 100.0 | 1 | 100.0 | 49 | 100.0 | 131 | 100.0 | 181 | 100.0 | |



Effect of Weather and Light Condition

Figure 15 and Figure 16 show the effect of weather and light conditions on the number of crashes that occurred in the study area.

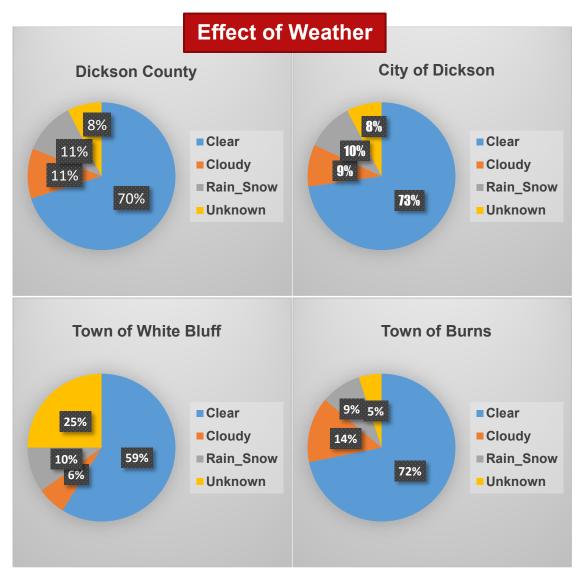


FIGURE 15: PERCENTAGES OF CRASH BASED ON DIFFERENT WEATHER CONDITION

DRAFT

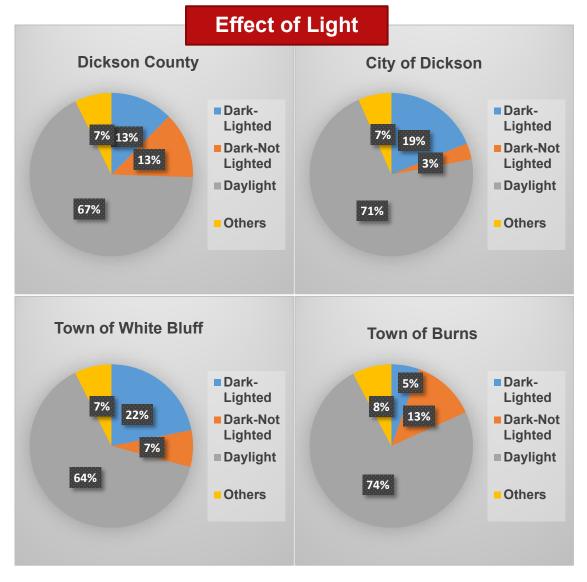


FIGURE 16: PERCENTAGES OF CRASH BASED ON DIFFERENT LIGHT CONDITION

Most of the crashes occur in daylight when the weather is clear. For the City of Dickson and the Town of White Bluff, crashes that occur at night occur in lighted conditions. So, weather and lighting does not have any specific impact on occurrence of crashes in the study areas.



Time of Crash Analysis

Figure 17 shows the percentages of crashes that occurred during different times of the day. Time was divided into four categories: 12:00 AM – 6:00 AM, 6:00 AM – 12:00 PM, 12:00 PM-6:00 PM, 6:00 PM-12:00 AM. Many of the crashes occur in the afternoon between 12:00 PM to 6:00 PM. School dismissal time and evening peak period are within this time frame.

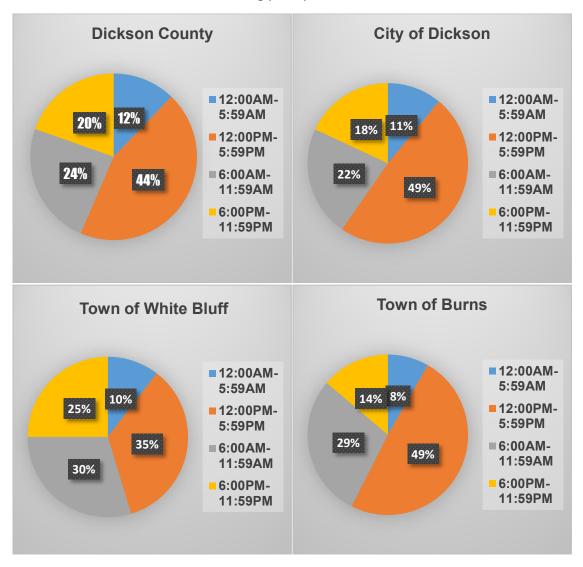


FIGURE 17: PERCENTAGES OF CRASH BASED ON DIFFERENT TIME OF THE DAY



Selection of Top Crash Location

For the selection of the high crash locations, total crash, crash rate (per 100 million vehicles miles travelled) and equivalent property damage only (EPDO) variables were used. The crash rate is a calculation used to disseminate information based on the traffic volumes travelling on a particular segment of roadway. Sometimes a short segment having less traffic might show a small number of total crashes but should be taken into consideration as the number of crashes related to the volume is high. EPDO is used to account for fatal and injury crashes. According to FHWA Highway data, one fatal crash is equivalent to 950 PDO crashes and one injury crash is equivalent to 23 PDO crashes. Table 10 shows the top 30 locations in terms of total crash, crash rate and EPDO value.

TABLE 10: TOP 30 CRASH LOCATION BASED ON TOTAL NUMBER OF CRASHES, CRASH RATE AND EPDO TOTAL CRASH

| 1 | Total Number of Cra | shes | | Crash Rate | | | EPDO Total Crash | | | |
|----------|------------------------------|----------------------|------|--|-------------------------|------|---------------------------------------|---------------|--|--|
| Ran k | Route | Total 5- yr Crash | Rank | Route | Crash Rate (100MVMT) | Rank | Route | EPDO Value | | |
| 1 | SR 46 | 826 | 1 | Brook Drive | 2238 | 1 | SR 46 | 6,156 | | |
| 2 | Henslee Drive | 135 | 2 | Dykeman Road | 1740 | 2 | Yellow Creek Road | 4,333 | | |
| 3 | SR 48 | 132 | 3 | Skyline Circle | 875 | 3 | Spring Street/SR 49 | 3,916 | | |
| 4 | US-70 | 129 | 4 | Beasley Drive | 837 | 4 | SR 48 | 3,856 | | |
| 5 | Beasley Drive | 126 | 5 | Mathis Drive | 733 | 5 | SR 46 | 3,265 | | |
| 6 | Spring Street/SR 49 | 123 | 6 | Maysville Road | 618 | 6 | SR 48 | 2,676 | | |
| 7 | Mathis Drive | 122 | 7 | SR 49 | 608 | 7 | US-70/Broadway Street | 1,970 | | |
| 8 | US-70/Broadway Street | 119 | 8 | Center Avenue East Broad Street South Main Street | 478 | 8 | US-70 | 1,958 | | |
| 9 | SR 48 | 118 | 9 | East Rickert Street | 472 | 9 | North Main Street SR 48 | 1,377 | | |
| 10 | SR 48 | 107 | 10 | Rock Springs Road | 453 | 10 | Beasley Drive | 1,326 | | |
| 11 | SR 96 | 85 | 11 | North Charlotte Street/ Westfield Road/ Old Charlotte Pike | 438 | 11 | Claylick Road | 1,321 | | |
| 12 | US-70/West College Street | 76 | 12 | Henslee Drive | 431 | 12 | SR 47 | 1,302 | | |
| 13 | Yellow Creek Road | 75 | 13 | Dykeman Road | 420 | 13 | Pump Hill Road/Jones Creek Road | 1,236 | | |
| 14 | SR 46 | 66 | 14 | Pump Hill Road/Jones Creek Road | 393 | 14 | SR 96 | 1,199 | | |
| 15 | North Main Street SR 48 | 54 | 15 | East Christy Drive Gum Branch Road Lime Kiln Road Church Street | 392 | 15 | SR 49/Broad Street | 293 | | |

| - | Fotal Number of Cup | has | | Greek Rete | | _ | EDDO Total Crook | |
|----------|--|----------------------|------|--|-------------------------|------|---|---------------|
| | Total Number of Cra | | | Crash Rate | | | EPDO Total Crash | |
| Ran k | Route | Total 5- yr Crash | Rank | Route | Crash Rate (100MVMT) | Rank | Route | EPDO Value |
| 16 | Beasley Drive | 48 | 16 | SR 47 | 391 | 16 | Grindstone Hollow Road/West Piney Road | 1,120 |
| 17 | Yellow Creek Road | 48 | 17 | North Main Street | 384 | 17 | Slayden-Marion Road | 1,092 |
| 18 | East Walnut Street/SR 47 | 48 | 18 | Taylor Town Road | 356 | 18 | Bowker Road/Rock Springs Road | 1,077 |
| 19 | East College Street | 48 | 19 | Pomona Road/ Lena Road/ West Grab Creek Road /Grab Creek Road | 343 | 19 | New Dry Hollow Road | 1,072 |
| 20 | East College Street | 46 | 20 | Gilliam Hollow Road | 333 | 20 | Little Bartons Creek Road | 1,069 |
| 21 | SR 47 | 45 | 21 | Spencers Mill Road | 328 | 21 | White Bluff Road | 1,061 |
| 22 | Pump Hill Road /Jones Creek Road | 45 | 22 | Vanleer Highway | 323 | 22 | Beasley Drive | 764 |
| 23 | SR 250 Claylick Road | 42 | 23 | North Charlotte Street | 319 | 23 | Henslee Drive | 729 |
| 24 | SR 47 | 37 | 24 | Henslee Drive | 314 | 24 | SR 48 | 726 |
| 25 | East Christy Drive /Gum Branch Road/Lime Kiln Road/Church Street | 35 | 25 | SR 46 | 312 | 25 | SR 96 | 635 |
| 26 | Center Avenue/East Broad Street/South Main Street | 34 | 26 | SR 49/Broad Street | 293 | 26 | Yellow Creek Road | 48 |
| 27 | Charles Walton Speight Highway/SR 47 | 33 | 27 | SR 48 | 284 | 27 | Mathis Drive | 122 |
| 28 | Henslee Drive | 32 | 28 | Bowker Road Rock Springs Road | 281 | 28 | US 70/West College Street | 76 |
| 29 | East Piney Road | 31 | 29 | Old Pond Lane | 272 | 29 | East College Street | 46 |
| 30 | SR 96 | 30 | 30 | East Piney Road | 266 | 30 | East Christy Drive /Gum Branch Road /Lime Kiln Road /Church Street | 35 |



Selection and assessment on top crash locations:

Using these three criteria and engineering judgement, the top crash locations are identified and represented in Table 11. Top crash locations were selected by taking an average of the ranks of the total crash, crash rate and EPDO value.

TABLE 11: SELECTED TOP CRASH LOCATIONS

| Rank | Route | BLM-ELM | Total Rank | EPDO Rank | Crash Rate Rank | Average Score | AADT | LOS |
|------|--|------------|---------------|--------------|--------------------|------------------|--------|-----|
| 1 | SR 46 | 3.228-8.18 | 1 | 1 | 26 | 9.33 | 29,215 | C/D |
| 2 | Beasley Drive | 0.429-1.08 | 5 | 22 | 4 | 10.33 | 12,676 | Α |
| 3 | Mathis Drive | 8.18-8.66 | 7 | 27 | 5 | 13.0 | 19,018 | В |
| 4 | SR 48 | 0-7.379 | 9 | 6 | 28 | 14.33 | 3,087 | Α |
| 5 | Jones Creek Road | 0-8.68 | 22 | 13 | 14 | 16.33 | 724 | Α |
| 6 | Henslee Drive | 8.15-9.79 | 2 | 23 | 25 | 16.67 | 14,369 | В |
| 7-10 | East Christy Drive Gum Branch Road Lime Kiln Road Church Street | 0-3.24 | 25 | 30 | 15 | 23.33 | 1,510 | А |

Once the top crash locations were identified, the study team delved into each segment to gather more information on crash trends, crash severity and manner of crash. Additionally, a site visit was conducted on these selected roads to collect additional information on crash contributing factors. This analysis helped to propose recommended safety projects.



Rank 1: SR 46

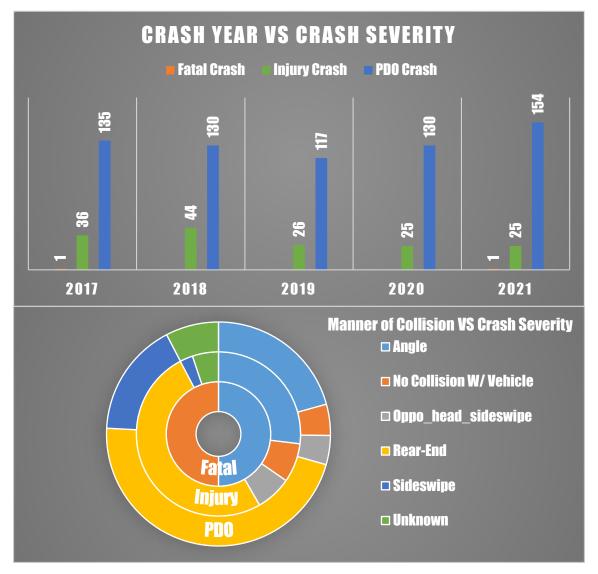


FIGURE 18: CRASH ANALYSIS FOR SR 46 (RANK 1)

<u>Notes</u>

- Primary collision types are angle crash and rear-end crash. This situation arises when there is a high volume of traffic travelling through the corridor and with numerous driveways and intersections. Driveway density is approximately 30 driveways/mile.
- A substantial number of semi-truck traffic was observed in the corridor and making various turning movements at intersections/driveways.
- SR 46 is an arterial road. Arterial roads are mainly for mobility. However, due to the number of
 driveways and access, the overall operations and safety are impacted. Future development might
 consider focusing on creating more collector/local roads around SR 46 and circulate the
 accessibility through newly built roads.





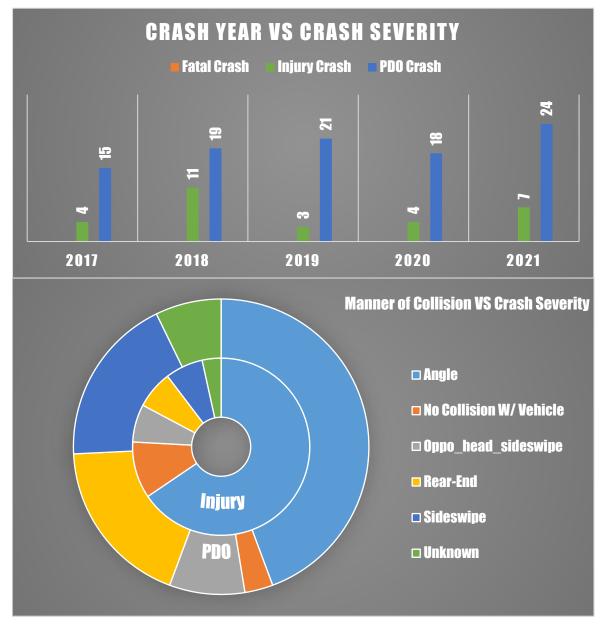


FIGURE 19: CRASH ANALYSIS FOR BEASLEY DRIVE (RANK 2)

- Total crashes have increased each year.
- Primary collision type is an angle crash.
- The high AADT, roadway speeds and the two-way left-turn lane (TWLTL) are all potential contributing factors to the crashes along this segment of roadway.



Rank 3: Mathis Drive

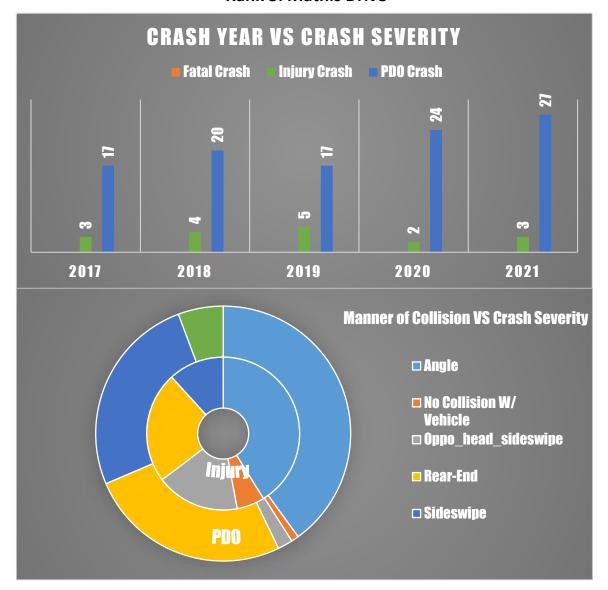
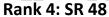


FIGURE 20: CRASH ANALYSIS FOR MATHIS DRIVE (RANK 3)

- Primary collision type is an angle crash.
- The high AADT, roadway speeds and the two-way left-turn lane (TWLTL) are all potential contributing factors to the crashes along this segment of roadway.



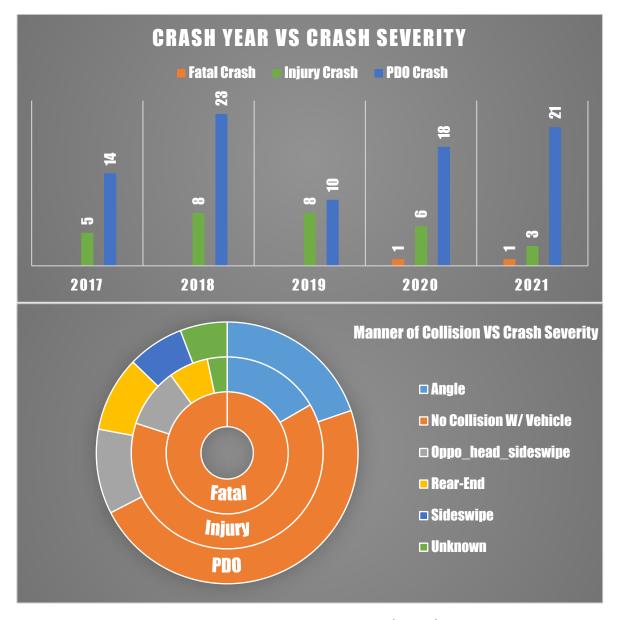


FIGURE 21: CRASH ANALYSIS FOR SR 48 (RANK 4)

- Sharp curves and sight distance issues are present.
- Southernmost segment just before I-40 has TWLTL.
- The major reason is run-off-road crashes. Speeding could also be an issue.



Rank 5: Jones Creek Road

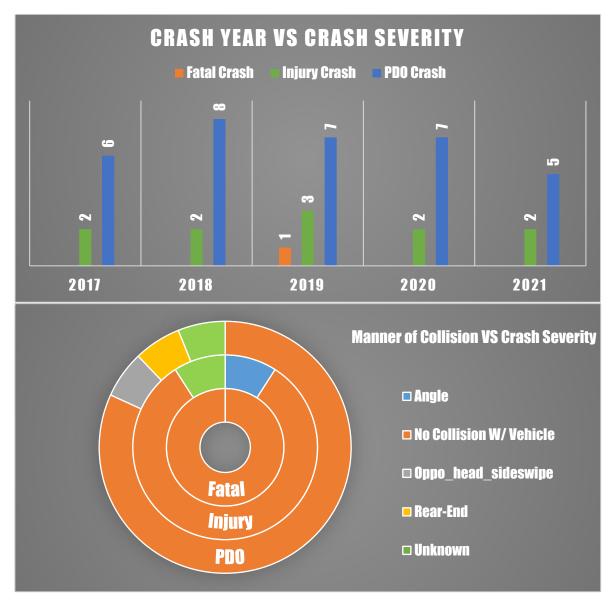


FIGURE 22: CRASH ANALYSIS FOR JONES CREEK ROAD (RANK 5)

<u>Notes</u>

- Low AADT and high driveway density are present.
- Primary crash type is run-off-road crashes.
- Sharp curves throughout the road segment sight distance and speeding potential contributing factors.



Rank 6: Henslee Drive

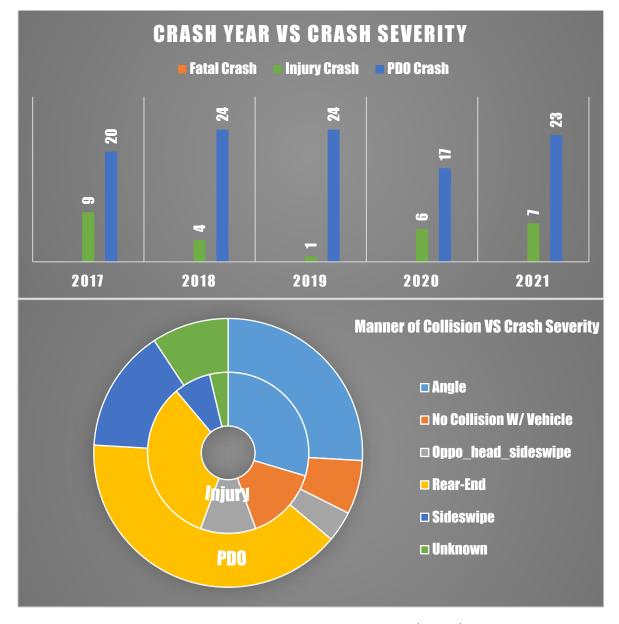


FIGURE 23: CRASH ANALYSIS FOR HENSLEE DRIVE (RANK 6)

- Angle and rear-end crash types are the dominate types.
- Road geometry and traffic conditions are contributing factors.



Rank 7: Gum Branch Road, Lime Kiln Road, Church Street

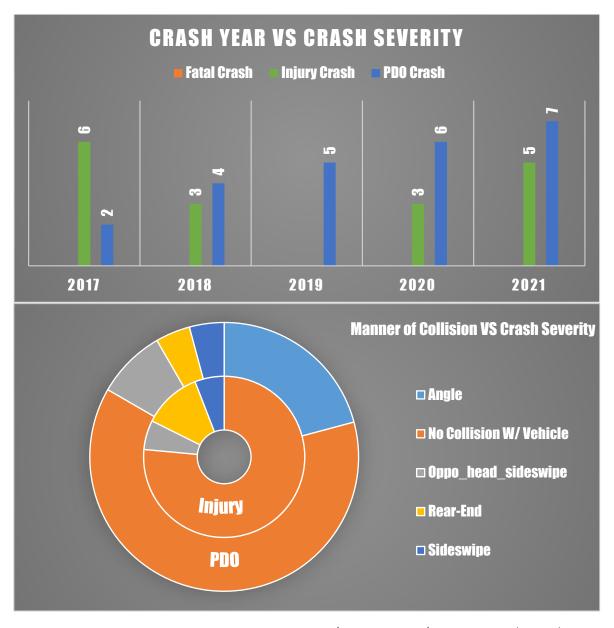


FIGURE 24: CRASH ANALYSIS FOR GUM BRUNCH ROAD/LIME KILN ROAD/CHURCH STREET (RANK 7)

NOTES

- The major collision type is run-off-road.
- Roadway geometry, sight distance, and speeding potential contributing factors.



Pedestrian Crash Analysis

Historical crash data for the study area was obtained from TDOT's E-TRIMS for the most recent five years (2017 to 2021). Details of the pedestrian crash records are listed in Table 12.

TABLE 12: PEDESTRIAN CRASH RECORDS: 2017-2021

| City | Route Name | Crash Location | Crash Year | Severity | Light Condition |
|----------------------|---------------------|----------------|---------------|----------|------------------|
| Dickson | Gum Branch Road | Roadway | 2021 | Injury | Dark-Lighted |
| White Bluff | White Bluff Road | Roadway | 2021 | Injury | Dark-Not Lighted |
| Dickson | Old Pond Lane | Roadway | 2019 | Injury | Dark-Not Lighted |
| Dickson | Beasley Drive | Roadway | 2018 | Injury | Daylight |
| Dickson | Beasley Drive | Roadway | 2017 | Injury | Dark-Lighted |
| Dickson | East College Street | Roadway | 2017 | Injury | Dark-Lighted |
| Dickson | Henslee Drive | Roadway | 2021 | Injury | Dark-Lighted |
| White Bluff | Broadway Street | Roadway | 2019 | Injury | Daylight |
| Dickson | Henslee Drive | Roadway | 2018 | Injury | Daylight |
| | US-70 | Intersection | 2020 | Injury | Daylight |
| | US-70 | Roadway | 2017 | Injury | Dark-Not Lighted |
| | SR 46 | Roadway | 2018 | Fatal | Dark-Not Lighted |
| Dickson | SR 46 | Roadway | 2018 | Injury | Dark-Lighted |
| | Yellow Creek Road | Roadway | 2017 | Injury | Daylight |
| Dickson | Mathis Drive | Roadway | 2018 | Injury | Daylight |
| Dickson | SR 46 | Roadway | 2021 | Fatal | Dark-Lighted |
| Dickson | SR 46 | Roadway | 2020 | Injury | Dark-Lighted |
| Dickson | SR 46 | Intersection | 2019 | Injury | Dark-Lighted |
| | SR 48 | Roadway | 2020 | Fatal | Dark-Not Lighted |
| Charlotte | SR 48 | Roadway | 2019 | Injury | Daylight |
| Charlotte SR 48 Road | | Roadway | 2019 | Injury | Dark-Not Lighted |

In a 5-year period, total crashes related to pedestrians were 26, which is 0.48% of the total crashes of the county. Crash trends remain fairly constant for these five years. Highest percentages (93%) of crashes occurred along roadways as compared to intersections (7%). Many of the crashes are injury related. Among the roadways, SR 46 has the highest number of pedestrian crashes in the five-year period.



Bicycle Crash Analysis

Historical crash data for the study area was obtained from TDOT's E-TRIMS for the most recent five years (2017 to 2021). Details of the bicycle crash are listed in Table 13. In a 5-year period, total crashes related to bicycles are 5, which is 0.10% of total crashes in the county. Many of the crashes are injury related. Among the roadways, SR 46 has the highest number of bicycle crashes in five years.

City **Route Name** Location **Year of Crash** Severity Light White Bluff Road Along Roadway 2020 Daylight Injury **Dickson** Along Roadway Daylight SR 46 2020 Injury Along Roadway Dickson SR 46 2020 PDO Dark-Lighted SR 46 Along Roadway 2018 Injury Dark-Not Lighted SR 48 Along Roadway 2021 Daylight Injury

TABLE 13: BICYCLE CRASH RECORDS: 2017-2021

Bicycle LOS Analysis

To evaluate ways to accommodate potential cyclists along the various routes the Bicycle Level of Service (BLOS), which measures the effectiveness of a facility in accommodating bicycles, is measured. BLOS is primarily based on the perception and comfort level of the cyclist. The method used for analysis for this report follows the equation in the 2010 Highway Capacity Manual (HCM) published by the Transportation Research Board (TRB). Level of service is calculated using the following equation:

BLOS = $a_1 \ln (Vol_{oL}/N) + a_2 S_t (1+10.38HV) + a_3 (1/PR5) + a_4 (W_e) + C$

Where:

 $a_1 = 0.507$

Vol_{oL} = directional demand flow rate in the outside lane (veh/h)

N = number of directional lanes

 $a_2 = 0.199$

 S_t = effective factor

HV = percentage of heavy vehicles (%)

 $a_3 = 7.066$

P R5 = FHWA's five-point pavement surface condition rating

 $a_4 = -0.005$

We = average effective width of outside through lane (ft)

C = 0.760



BLOS Results

Table 14 and Table 15 display the results from the analysis. The bike routes were divided into segments within the project limits based on significant changes in geometric configuration along the route. It should be noted that a large percentage of truck traffic and high speeds negatively affected the BLOS score, while shoulders eight feet in width or greater had a positive effect on the LOS.

TABLE 14: TDOT DESIGNATED BICYCLE ROUTE

| Route # | Route Name | BLM | ELM | Classification | Bicycle LOS | City |
|---------|--------------------|-------|-------|-----------------|----------------|-------|
| 00957 | Spencers Mill Road | 0 | 4.991 | Rural Collector | С | |
| 00957 | Spencers Mill Road | 4.991 | 8.565 | Urban Collector | В | |
| 00957 | Spencers Mill Road | 8.565 | 8.58 | Urban Collector | В | Burns |
| SR047 | SR 47 | 5.91 | 6.754 | Urban Collector | С | |
| SR047 | SR 47 | 6.754 | 8.54 | Rural Collector | С | |

TABLE 15: TN BICYCLE ROUTE

| Route # | Route Name | BLM | ELM | Classification | Bicycle LOS | City |
|---------|---------------------|--------|--------|----------------------|----------------|-------------|
| SR001 | East College Street | 11.8 | 12.89 | U Principal Arterial | F | Dickson |
| SR001 | US-70 | 12.89 | 12.914 | U Principal Arterial | F | |
| SR001 | US-70 | 12.914 | 12.96 | Urban Minor Arterial | F | |
| SR001 | US-70 | 12.96 | 17.179 | Rural Arterial | Е | |
| SR001 | Broadway Street | 17.179 | 21.847 | Rural Arterial | Е | White Bluff |
| SR046 | SR 46 | 0 | 0.44 | Urban Minor Arterial | F | |
| SR046 | SR 46 | 0.44 | 1.617 | Urban Minor Arterial | F | |
| SR046 | SR 46 | 1.617 | 3.173 | Urban Minor Arterial | F | |
| SR046 | SR 46 | 3.173 | 3.228 | Urban Minor Arterial | D | Dickson |
| SR046 | SR 46 | 3.228 | 7.54 | U Principal Arterial | D | Dickson |
| SR046 | SR 46 | 7.54 | 7.74 | U Principal Arterial | D | Dickson |
| SR046 | SR 46 | 7.74 | 7.983 | U Principal Arterial | D | Dickson |
| SR046 | SR 46 | 7.983 | 8.18 | U Principal Arterial | F | Dickson |
| SR046 | Mathis Drive | 8.18 | 8.66 | U Principal Arterial | F | Dickson |
| SR047 | East Walnut Street | 0 | 0.251 | Urban Minor Arterial | D | Dickson |
| SR047 | SR 47 | 0.251 | 1.872 | Urban Minor Arterial | Е | Dickson |
| SR047 | SR 47 | 1.872 | 3.49 | Urban Collector | E | Burns |
| SR047 | Stuart Street | 3.49 | 4.123 | Urban Collector | С | Burns |
| SR047 | Church Street | 4.123 | 5.415 | Urban Collector | С | Burns |
| SR047 | SR 47 | 5.415 | 5.91 | Urban Collector | С | |
| SR047 | SR 47 | 5.91 | 6.754 | Urban Collector | С | |
| SR047 | SR 47 | 6.754 | 8.54 | Rural Collector | С | |
| SR047 | SR 47 | 8.54 | 9.733 | Rural Collector | С | |

| | | R | | FT | | |
|-------|--------------------------------|--------|--------|----------------------|---|-------------|
| SR047 | SR 47 | 9.79 | 9.81 | Rural Collector | С | |
| SR047 | SR 47 | 9.81 | 10.19 | Rural Collector | С | White Bluff |
| SR047 | Charles Walton Speight Highway | 10.19 | 11.574 | Rural Arterial | E | White Bluff |
| SR047 | SR 47 | 11.574 | 11.637 | Rural Arterial | Е | |
| SR047 | SR 47 | 11.637 | 11.803 | Rural Arterial | Е | White Bluff |
| SR047 | SR 47 | 11.803 | 12.46 | Rural Arterial | Е | |
| SR048 | North Main Street | 10.16 | 10.28 | U Principal Arterial | D | Dickson |
| SR048 | North Main Street | 10.28 | 10.8 | U Principal Arterial | F | Dickson |
| SR048 | North Main Street | 10.8 | 11.18 | U Principal Arterial | F | Dickson |
| SR048 | SR 48 | 11.18 | 11.21 | U Principal Arterial | F | Dickson |
| SR048 | SR 48 | 11.21 | 11.533 | U Principal Arterial | F | |
| SR048 | SR 48 | 11.533 | 11.864 | U Principal Arterial | F | |
| SR048 | SR 48 | 11.864 | 12.747 | Urban Minor Arterial | F | |
| SR048 | SR 48 | 12.747 | 15.951 | Rural Arterial | Е | |
| SR048 | SR 48 | 15.951 | 15.96 | Rural Arterial | Е | Charlotte |
| SR001 | US-70 | 0 | 5.72 | Rural Arterial | F | |
| SR001 | US-70 | 5.72 | 6.464 | Urban Minor Arterial | F | |
| SR001 | US-70 | 6.464 | 6.649 | U Principal Arterial | F | |
| SR001 | West College Street | 6.649 | 8.15 | U Principal Arterial | F | Dickson |
| SR001 | Henslee Drive | 8.15 | 9.79 | U Principal Arterial | Е | Dickson |
| SR001 | Henslee Drive | 9.79 | 10.004 | U Principal Arterial | F | Dickson |
| SR001 | Henslee Drive | 10.004 | 10.18 | U Principal Arterial | F | Dickson |
| SR001 | East College Street | 10.18 | 11.8 | U Principal Arterial | F | Dickson |
| SR096 | SR 96 | 0 | 0.63 | U Principal Arterial | С | Dickson |
| SR096 | SR 96 | 0.63 | 1.36 | Urban Minor Arterial | С | Dickson |
| SR096 | SR 96 | 1.36 | 1.482 | Urban Minor Arterial | С | |
| SR096 | SR 96 | 1.482 | 4.83 | Urban Minor Arterial | С | Burns |
| SR096 | SR 96 | 4.83 | 5.124 | Urban Minor Arterial | С | Burns |
| SR096 | SR 96 | 5.124 | 5.641 | Urban Minor Arterial | С | Burns |
| SR096 | SR 96 | 5.641 | 7.901 | Urban Minor Arterial | С | |
| SR096 | SR 96 | 7.901 | 10.21 | Rural Arterial | С | |

According to the analysis, poor bicycle operation is expected to exist on SR 46 (south of I-40), US-70 (east of SR 96), westernmost US-70, Mathis Drive, Henslee Drive, North Main Street/ SR 48 (from Henslee Drive to the north), East/West College Street, Charles Walton Speight Highway/ SR 47 (from Broadway Street to the north). Notably, most of the poor LOS exists on 2-lane roadways with high AADT.



TABLE 16: TDOT EXISTING TRUCK ROUTE IN DICKSON COUNTY

| Route # | BLM | ELM | Route | % Truck | AADT | LOS | Classification | City |
|---------|--------|--------|------------------------|------------|--------|-----|-----------------------------|---------|
| SR001 | 0 | 5.72 | US-70 | 6 | 9,439 | С | Rural Arterial | |
| SR001 | 5.72 | 6.464 | US-70 | 9 | 16,024 | Е | Urban Minor Arterial | |
| SR001 | 6.464 | 6.649 | US-70 | 9 | 16,024 | E | U Principal Arterial | |
| SR001 | 6.649 | 8.15 | West College Street | 9 | 16,024 | В | U Principal Arterial | Dickson |
| SR001 | 8.15 | 9.79 | Henslee Drive | 9 | 14,369 | В | U Principal Arterial | Dickson |
| SR001 | 9.79 | 10.004 | Henslee Drive | 9 | 10,441 | Α | U Principal Arterial | Dickson |
| SR001 | 10.004 | 10.18 | Henslee Drive | 9 | 10,441 | Α | U Principal Arterial | Dickson |
| SR001 | 10.18 | 11.8 | East College Street | 9 | 15,748 | Α | U Principal Arterial | Dickson |
| SR096 | 0 | 0.63 | SR 96 | 4 | 7,507 | С | U Principal Arterial | Dickson |
| SR096 | 0.63 | 1.36 | SR 96 | 4 | 7,507 | С | Urban Minor Arterial | Dickson |
| SR096 | 1.36 | 1.482 | SR 96 | 4 | 7,507 | С | Urban Minor Arterial | |
| SR096 | 1.482 | 4.83 | SR 96 | 4 | 8,918 | С | Urban Minor Arterial | Burns |
| SR096 | 4.83 | 5.124 | SR 96 | 4 | 8,918 | С | Urban Minor Arterial | Burns |
| SR096 | 5.124 | 5.641 | SR 96 | 4 | 8,918 | С | Urban Minor Arterial | Burns |
| SR096 | 5.641 | 7.901 | SR 96 | 4 | 8,918 | С | Urban Minor Arterial | |
| SR096 | 7.901 | 10.21 | SR 96 | 4 | 9,189 | С | Rural Arterial | |



Public & Stakeholder Meeting Comments



Public Comments Initial Informational Meeting Meeting Date: June 30, 2022

- Extend I-840 to SR 96
- SR 96 needs to be 4 lanes to take pressure off of SR 46
- There seems to be no plans for ride share opportunities, mass transportation with cheap energy being a thing of the past.
- Provide adequate sidewalks/bike lanes (not all citizens can afford cars)
- Construct a new interchange off I-840 for the fuel depot.
- Be proactive to try to stay ahead of growth by improving roads ahead of development.
- Roads/intersections of concern:
 - White Bluff Road and SR 96
 - Beechwood Road and Hwy 47
 - Bakerswork Road and Hwy 47
 - o Cathey Hollow Road and SR 96
 - Hwy 70 and Buddy Road
- I-840 is proposed to connect to SR 96 in Burns, which will of course bring in more traffic SR 96 will need to be widened way before then.
- Highway 46 from the interstate into Dickson is a complete mess. Look into new secondary roads to alleviate congestion.
- For any new road development, we need walkways and bikeways to make Dickson a more desirable and healthier place to live.
- White Bluff New connector road extending Park Street to Industrial Drive
- 4-way light at Hwy 47 and SR 96 Highway
- Look at transportation improvements to access the northern part of the county for growth opportunities.



Town of White Bluff Meeting Date: July 13, 2022

- Public transit within county and regionally is needed.
- Emergency services south of railroad are essential.
 - Truck access
 - Slow moving train
- Taylor Town road is too narrow and has aggressive speeding. Increased development.
- One lane underpass on Hwy 47 at Cain Brake Road. (36.090830, -87.254894)
 - Bridge hit
 - Bicycle issue
- Crashes at the intersection of SR 96 & White Bluff Road
- White Bridge Elementary school zone traffic. TDOT R3 traffic was supposed to evaluate.
- Commuter train to Nashville
- Capacity Issues:
 - Hwy 70/ Broadway Street west of the intersection of Hwy 47 and Hatley Street
- Concern about future development that involves converting agricultural land to residential parcels particularly for the large farms north of town.
- City of Dickson: crazy traffic from 3:30-5:00 in the vicinity of Wal-Mart
- Hwy 70/Broadway St at Shell Way near Dairy Queen has problem with turning lane.



City of Dickson Meeting Date: July 14, 2022

- Speeding on Pump Hill Road, particularly near Jones Creek Road. Road geometry is a concern especially at night.
- Cut-thru traffic on Rock Church Road and/or at the intersection of Jones Creek Road and Rock Church Road. Roadways are too narrow for commercial vehicles.
- Delay and congestion issues at the intersection of I-40 and Hwy 46.
- Move railroad along Hwy 46. This can improve I-40 interchange at Dickson.
- Railroad is not required anymore.
- Railroad creates issues near College Street and Hwy 46.
- Provide a by-pass of Hwy 46.
- Construct an interchange off I-40 near Hogan Road.
- Traffic backs-up in vicinity of S. Main Street and Church Street.
- Excessive amount of truck traffic along Beasley Road. Beasley Road was initially planned and built as a by-pass road.
- Traffic backs-up from E. College Street near Academy Street and continues towards Church Street past Beasley Drive.
- Consider use of railroad for commuters into/out of Nashville.
- Abiff Road: Road segment from Hwy 46 east towards Spencer Mill Road.
 - o Cut-thru traffic
 - Speeding
 - Safety
- Hwy 47, just east of Lewis Hollow Road, the sun creates sight issues.
- Westbound BBQ Road at Cowan Road has a sharp acute angle that makes right turning movement a difficult one.

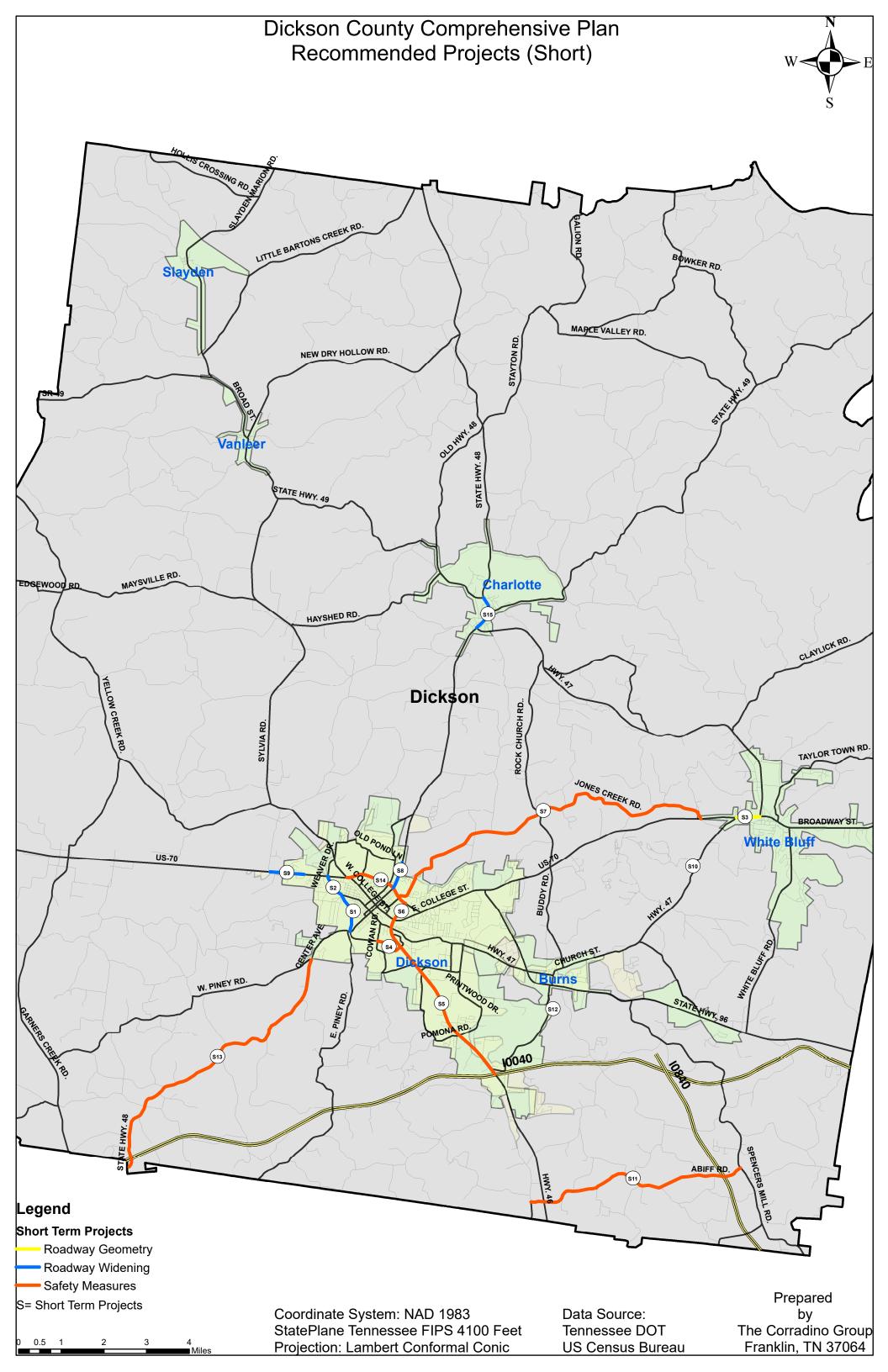


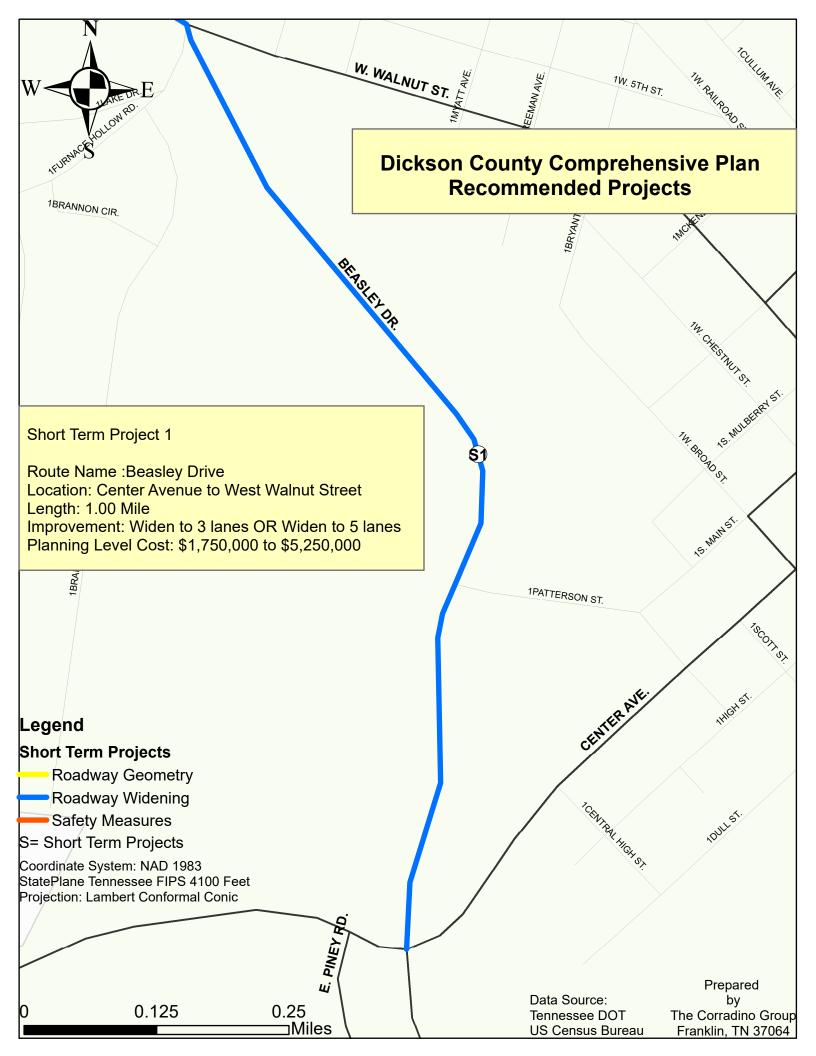
Town of Burns Meeting Date: July 15, 2022

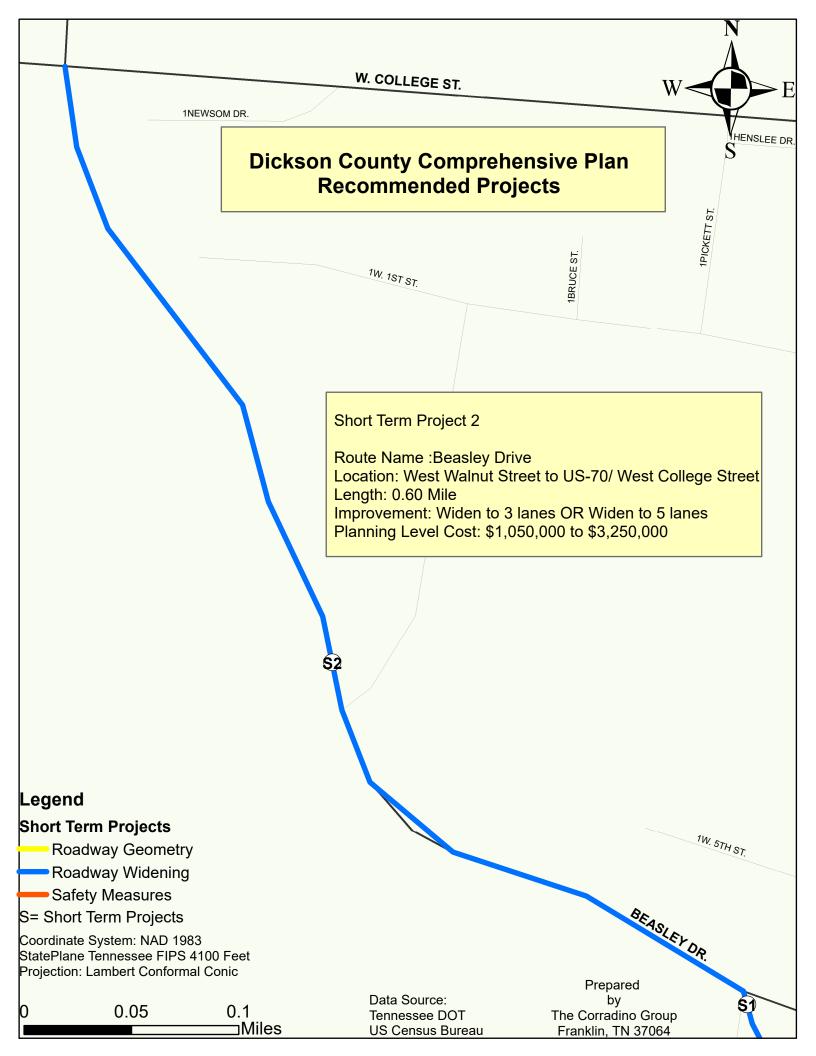
- Traffic congestion at the intersection of SR 96 and Lime Kiln Road.
 - No signals
 - Major road free flow volumes
 - o Congestion on Lime Kiln Road.
- Abiff Road:
 - Speeding problem
 - Over-developing and becoming a through traffic road.
 - Need signal at Hwy 46. Recent fatality in July 2022.
 - o Bike path and sidewalk needed.
- Eastside Road is a cut-thru for Spencer Mill. Major increase in traffic coming onto SR 96 at either Camp Ravine or Eastside Road. Speed limit signs need to be more visible. Road not equipped for truck traffic.
- Delay and congestion issues at the intersection of SR 96 and Hwy 46. Traffic congestion is mainly on SR 96.
- Doug Hill Road becoming a through road. Increased traffic and safety concerns. Doug Hill Road and Abiff Road are connecting Williamson & Dickson counties in almost a direct line- But there is a historic area (the Old Spencer Mill) in between that needs to be preserved.
- Guardrail needs to be installed on W. Piney Road. Semi-trucks are an issue.
- Hwy 47 between Bakers Work Road & Hwy 70 has about 11 feet clearance.

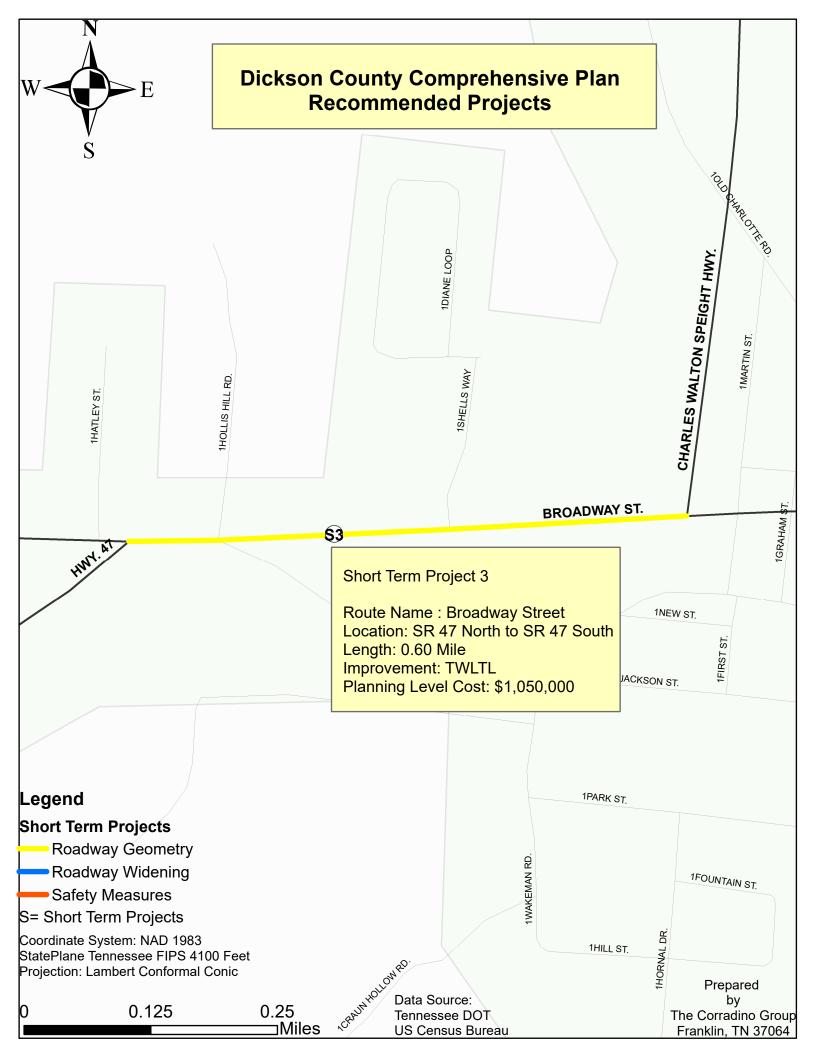


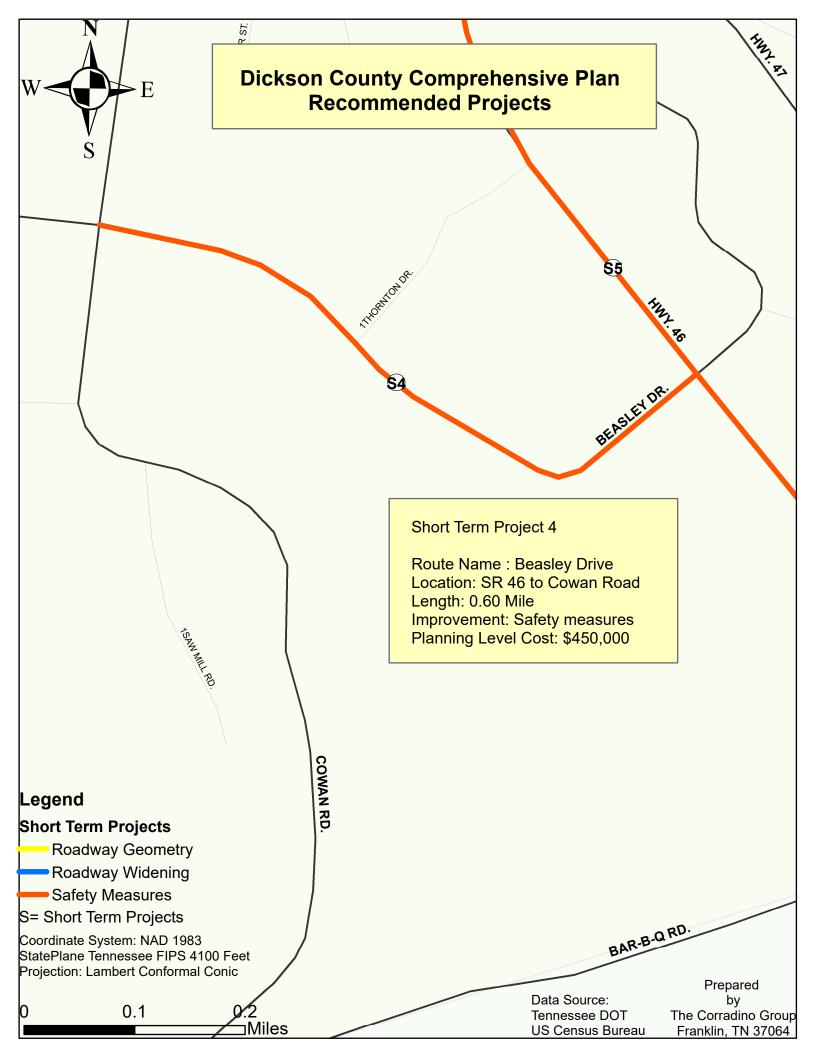
Proposed Project Sheets

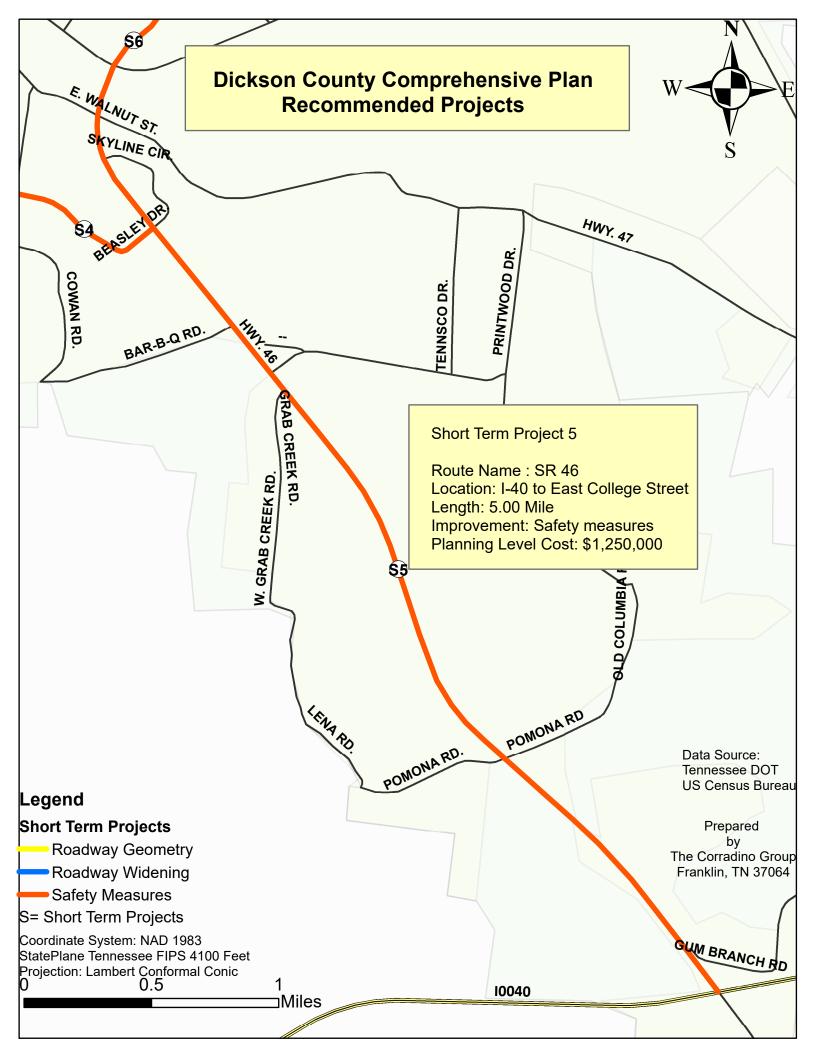


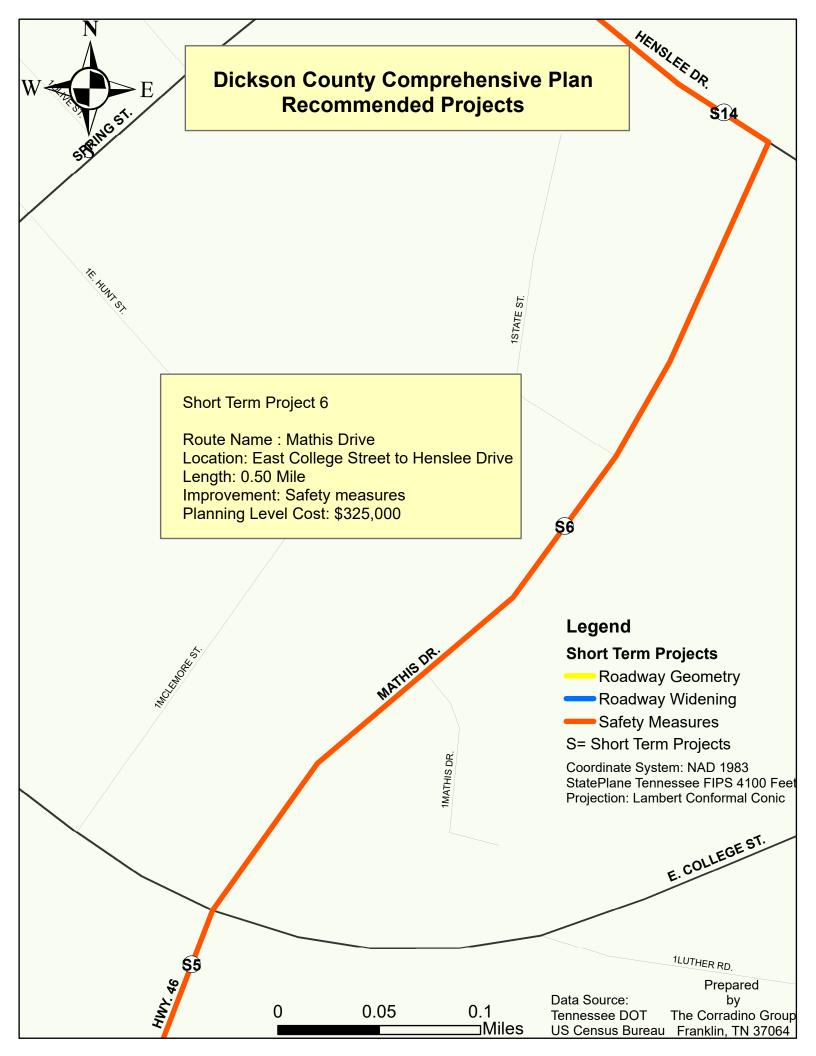


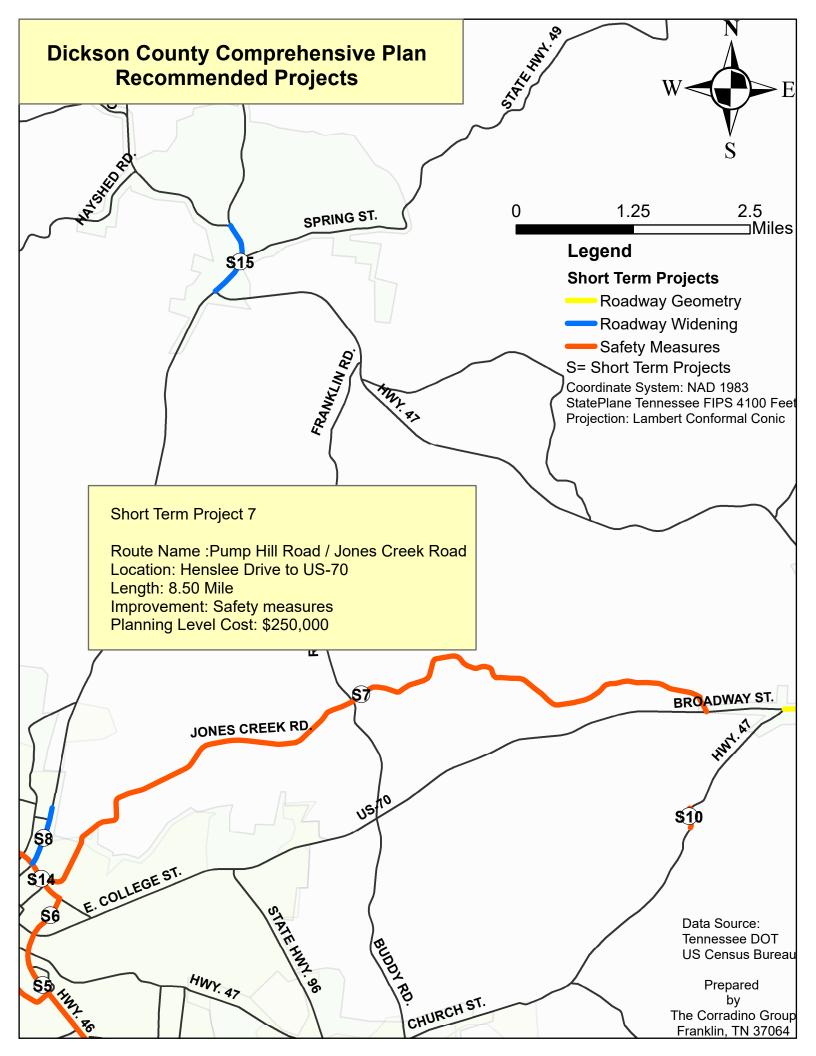


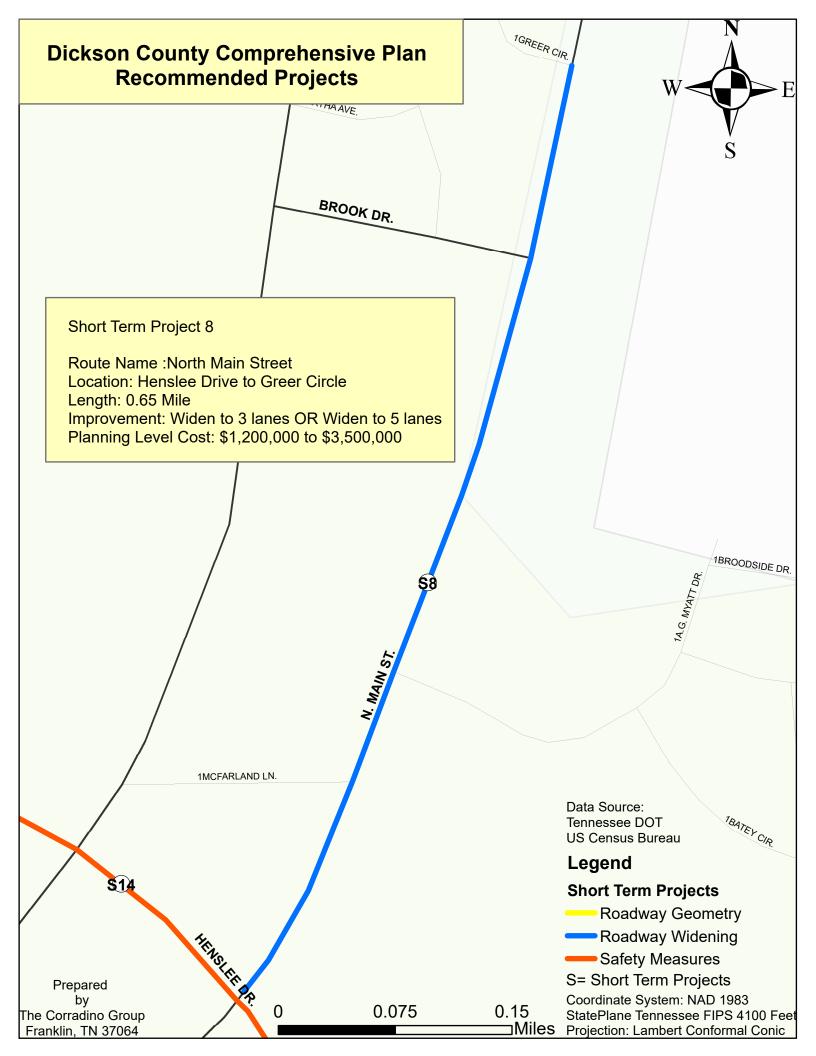




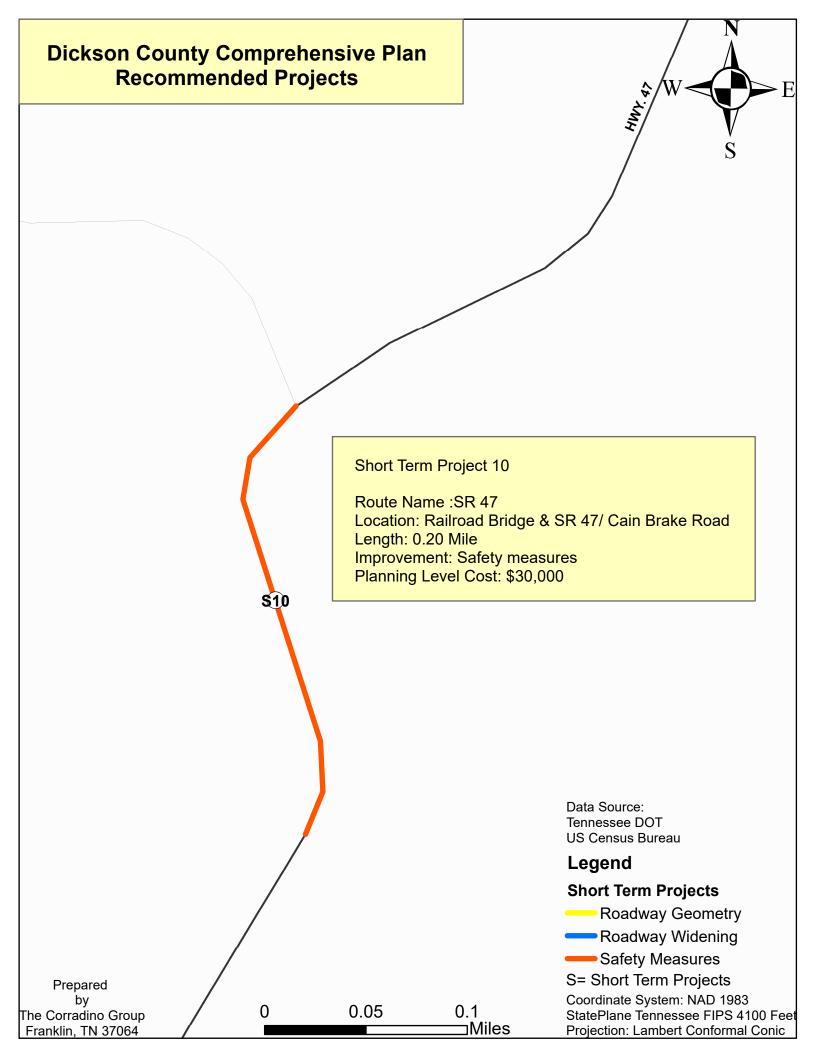


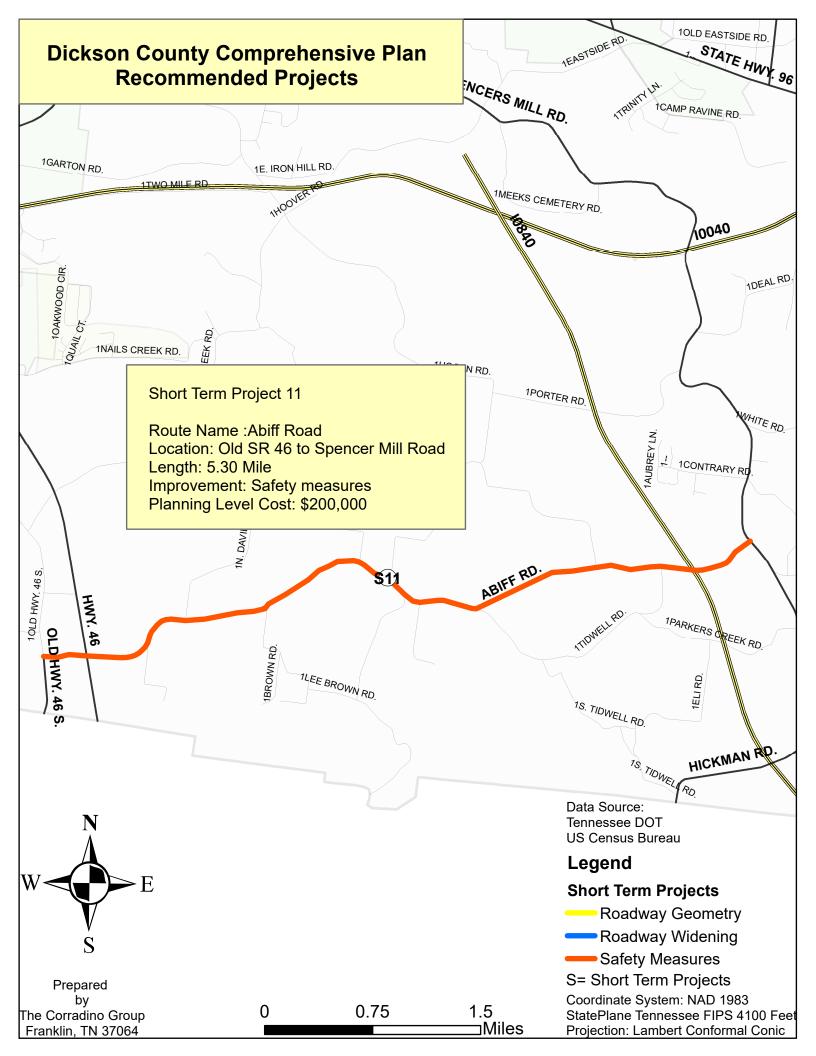


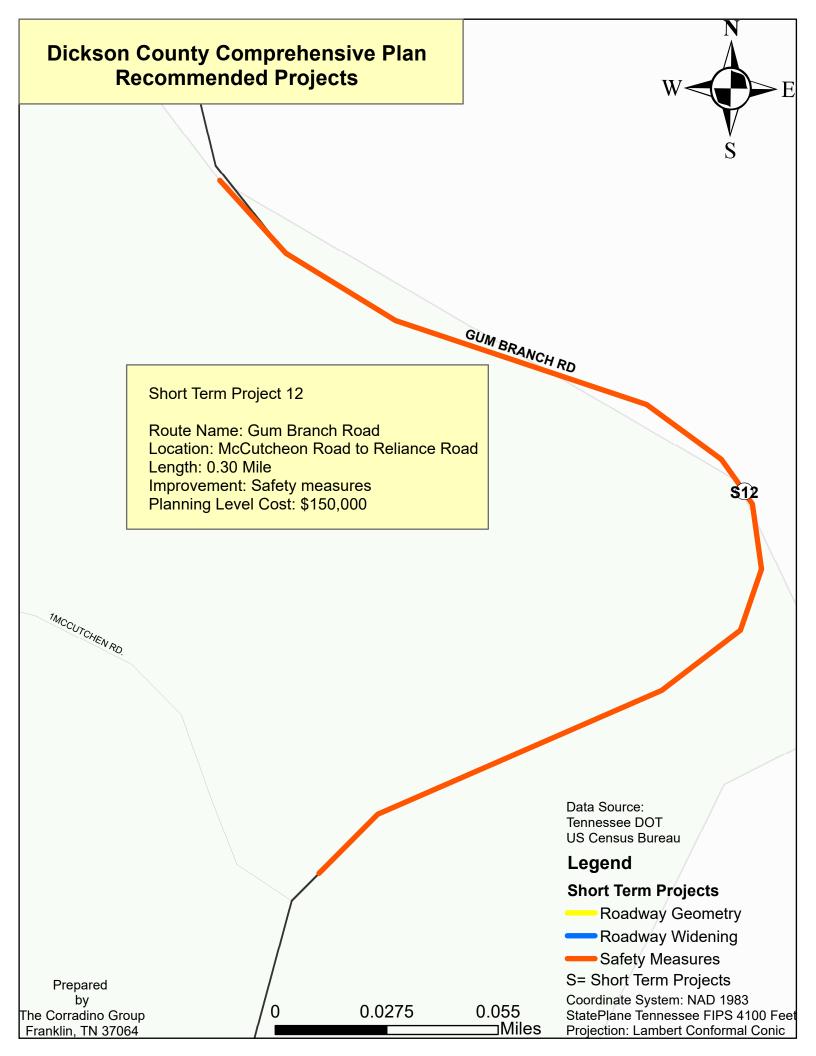


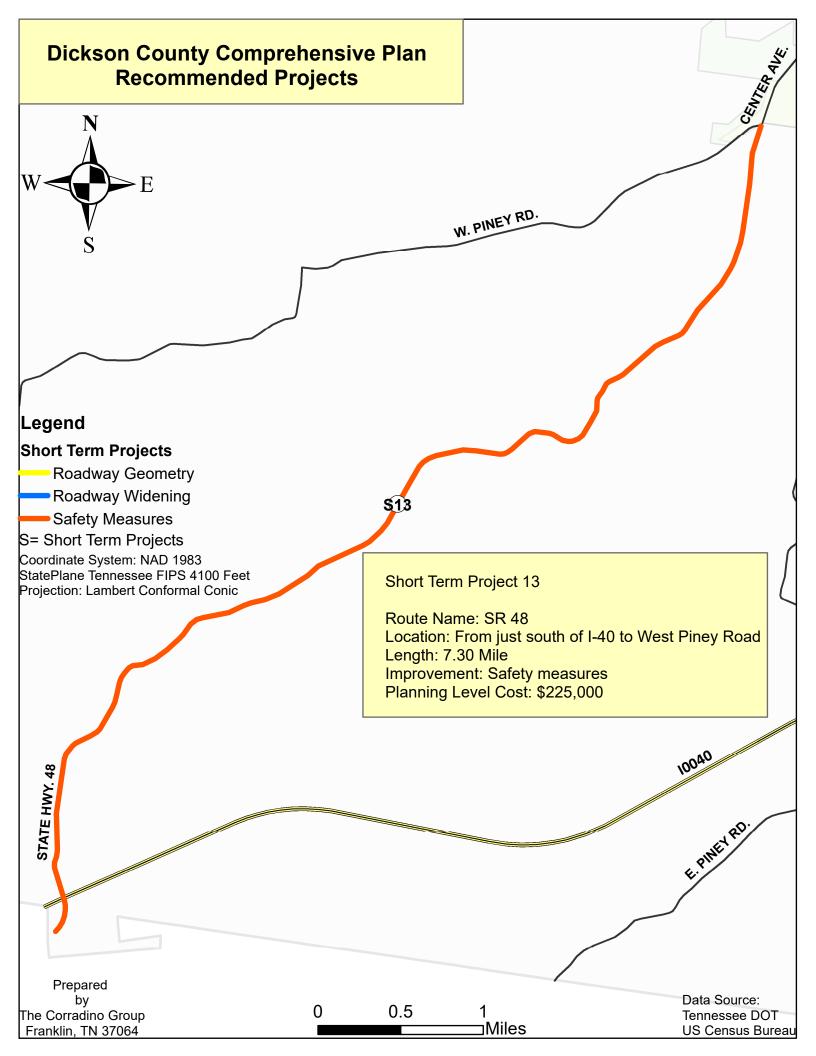


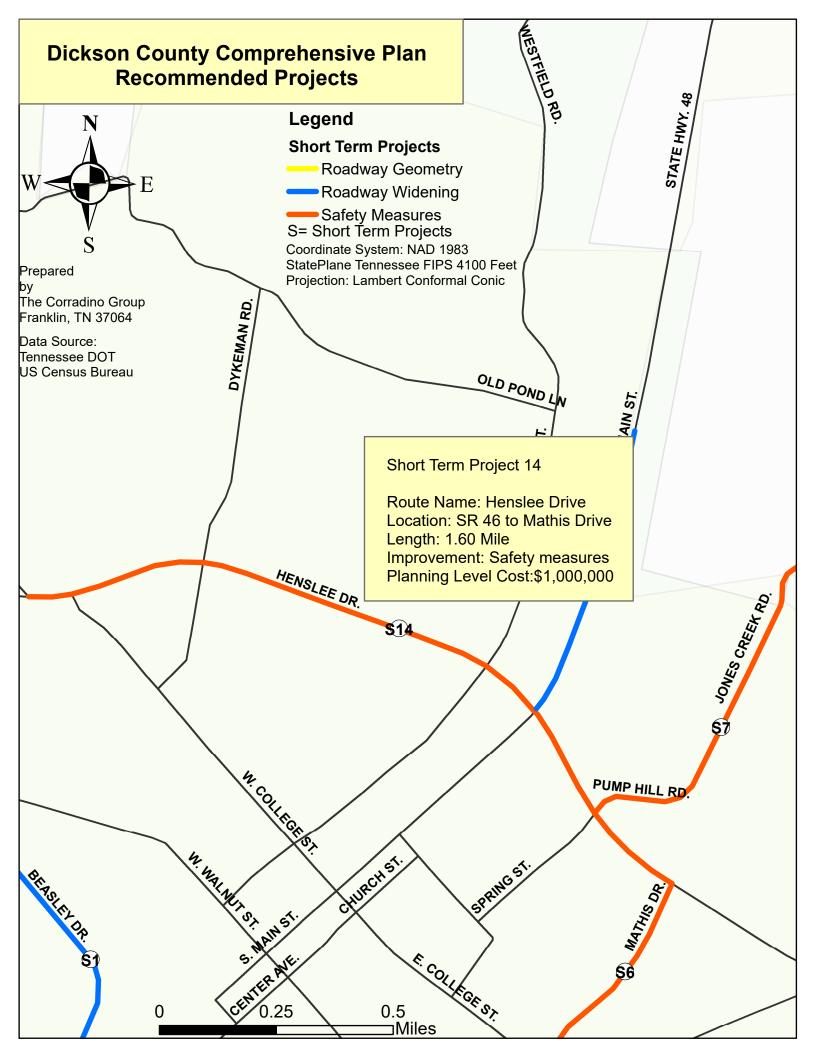


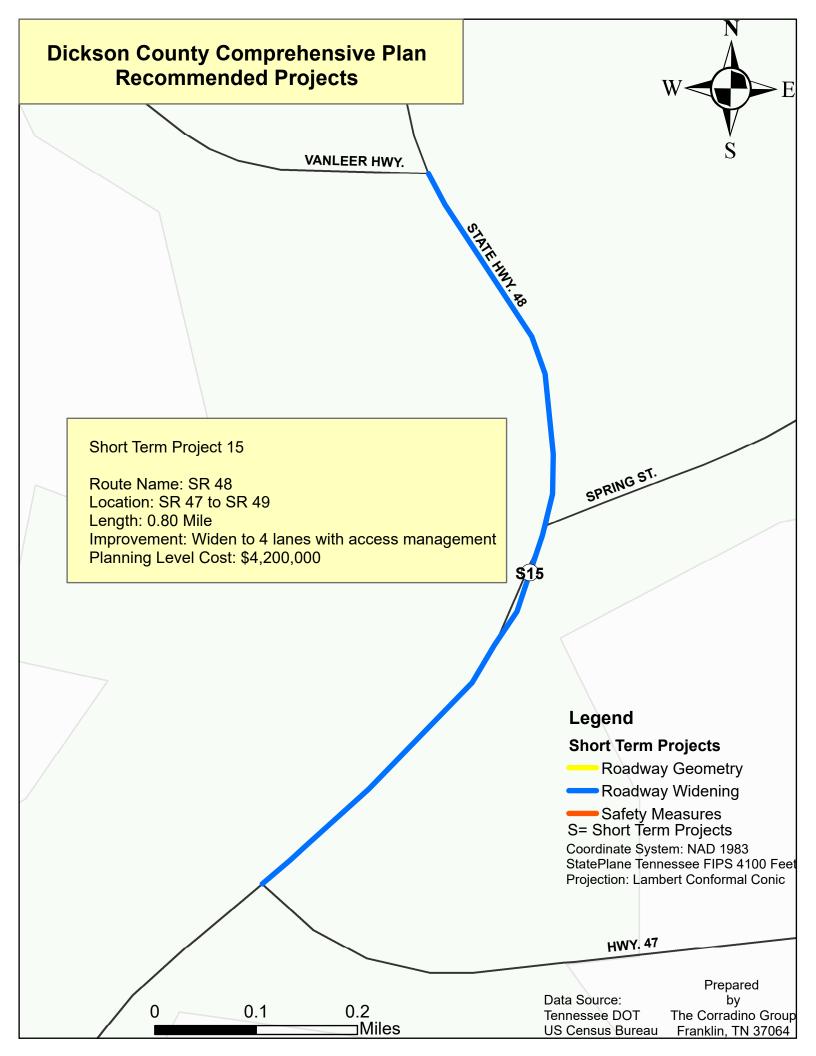


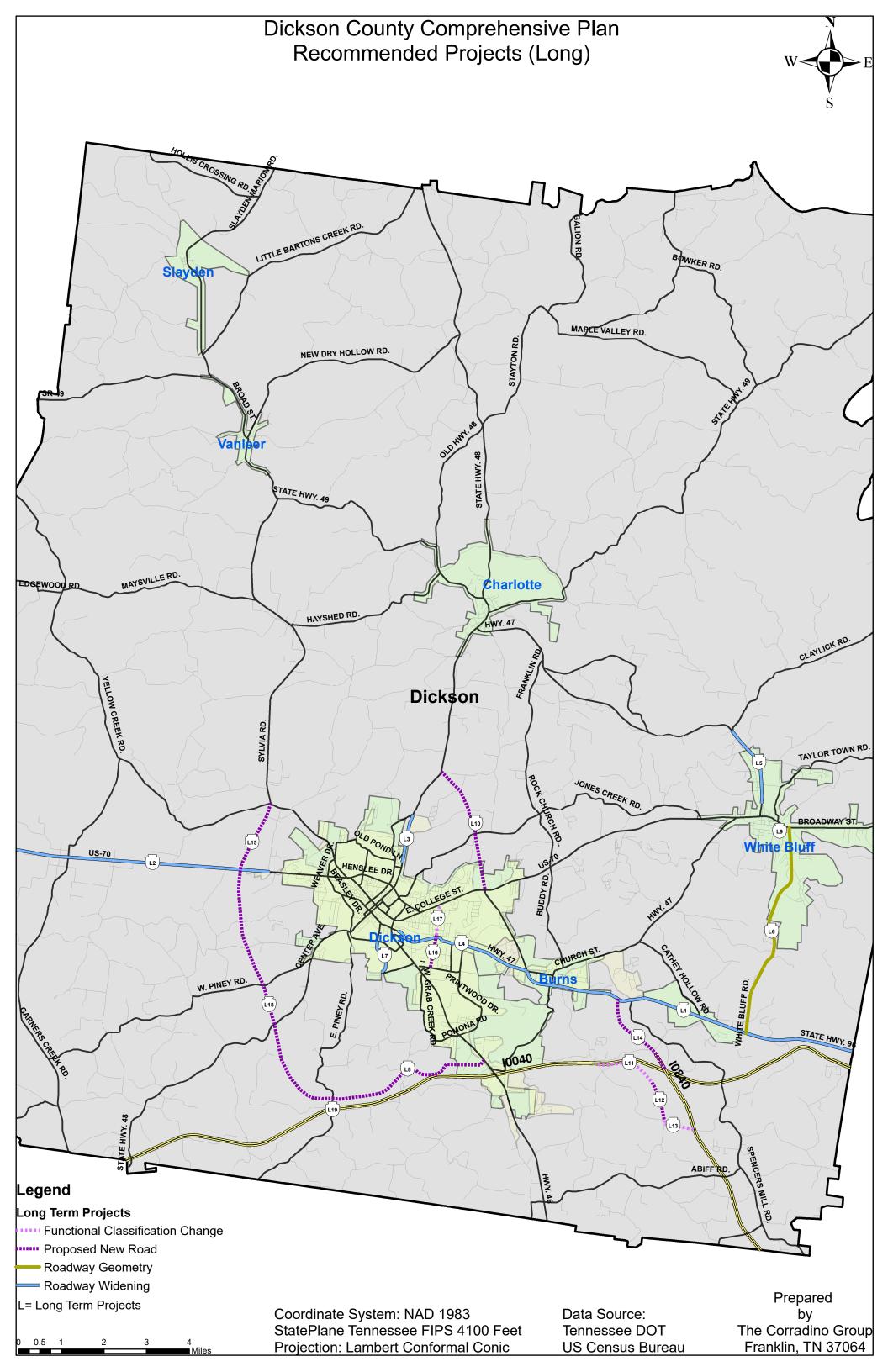


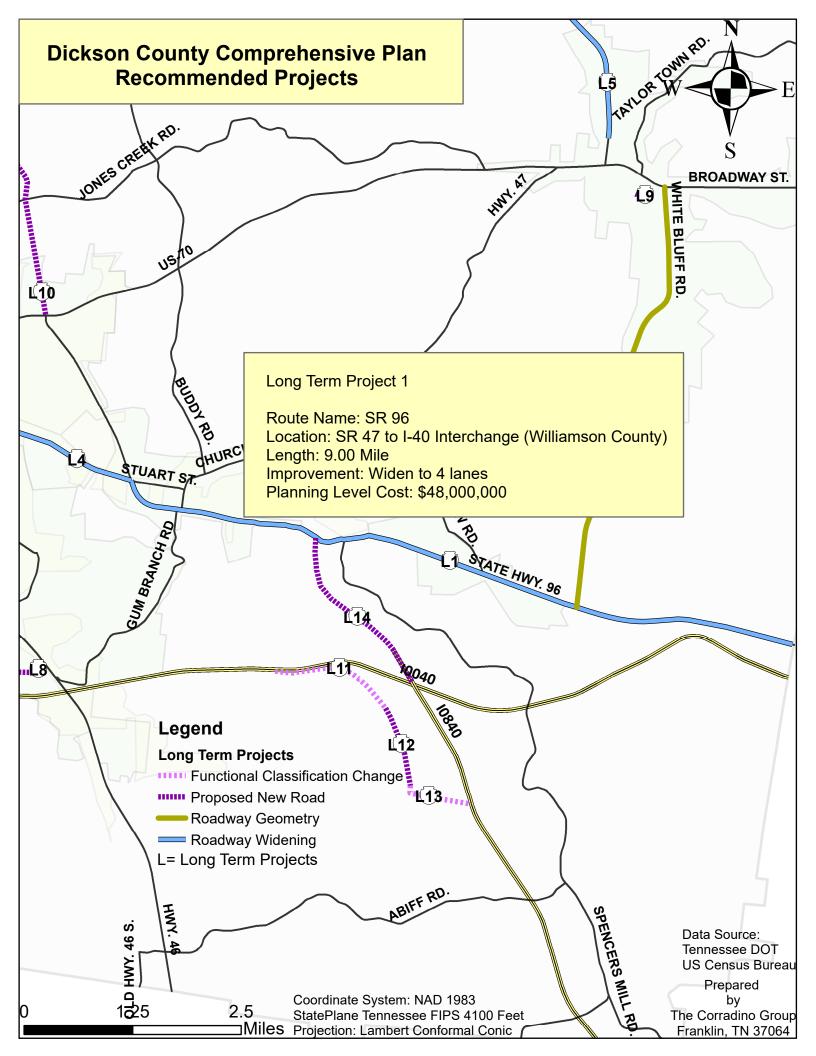


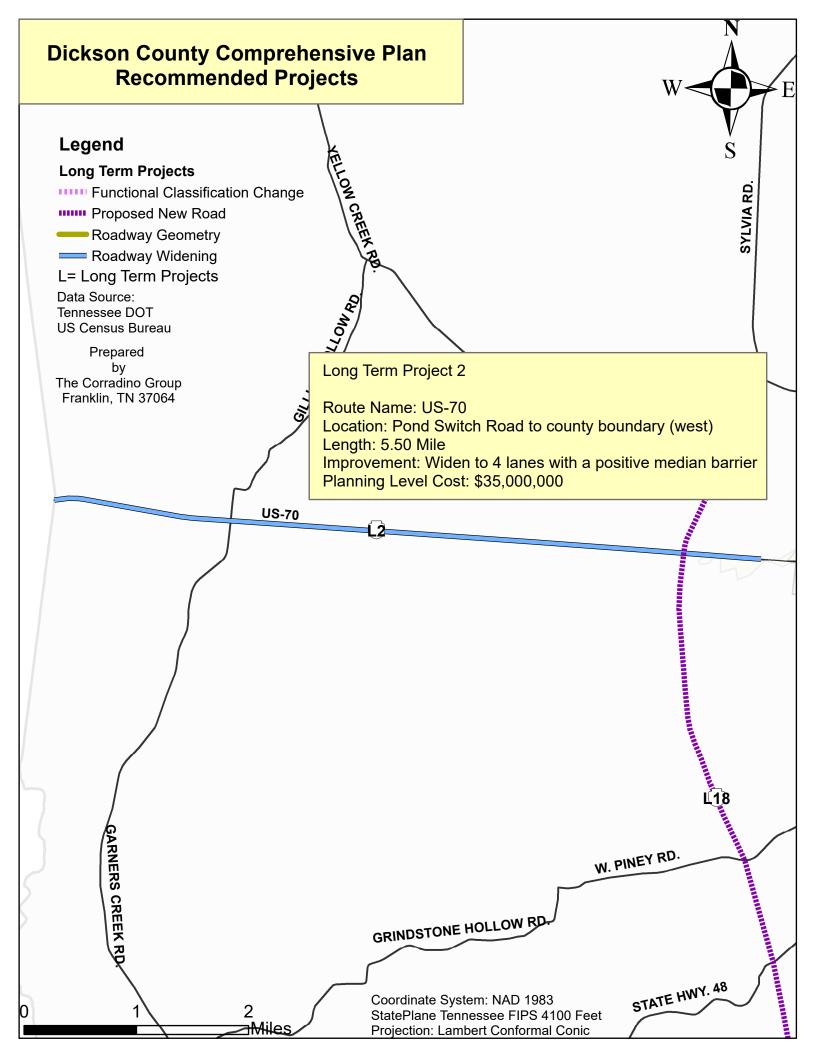


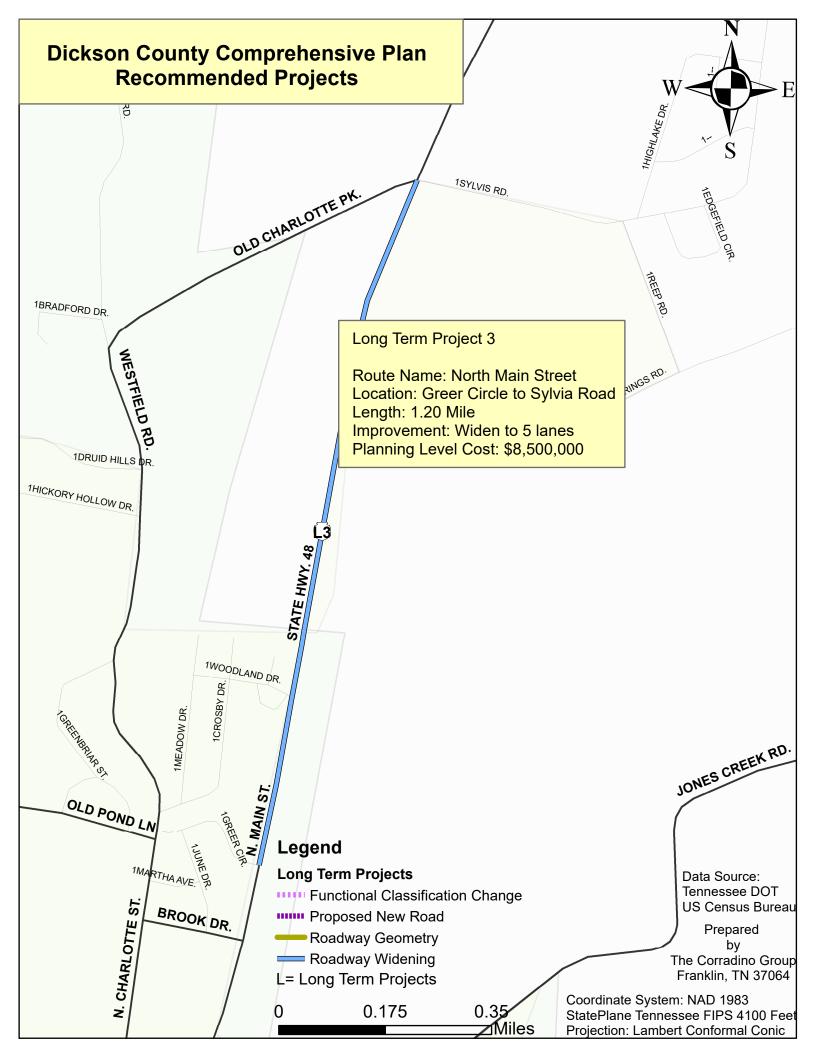


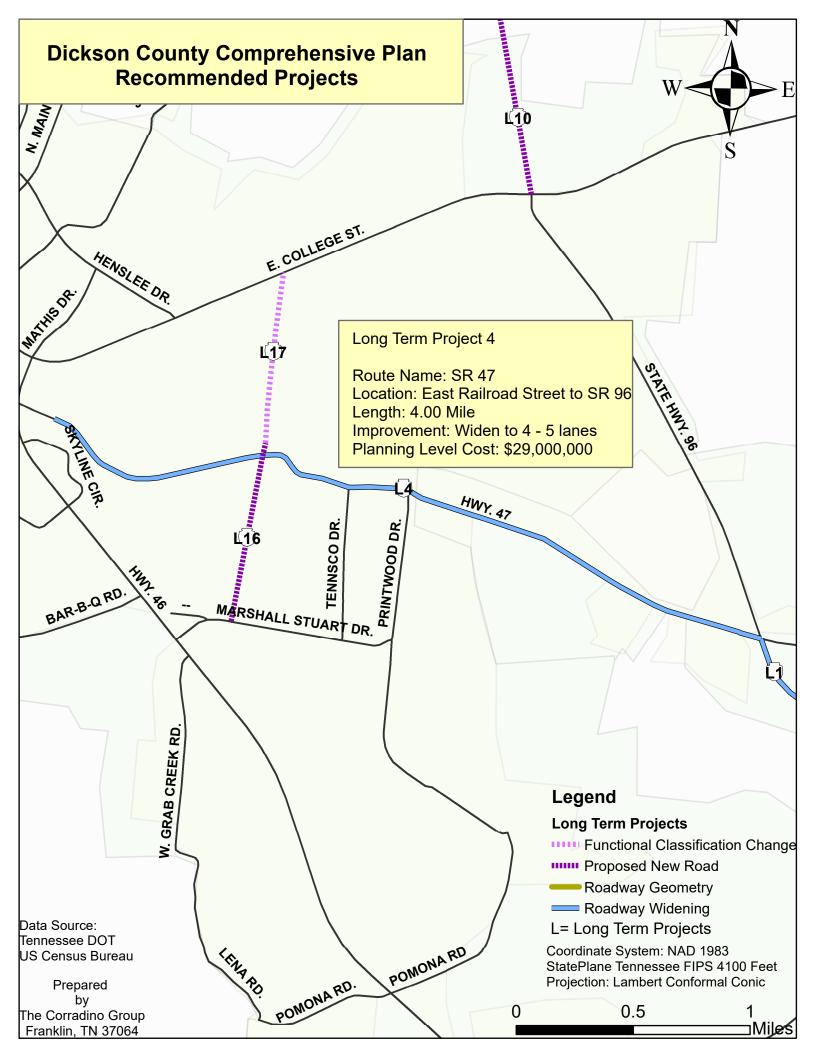


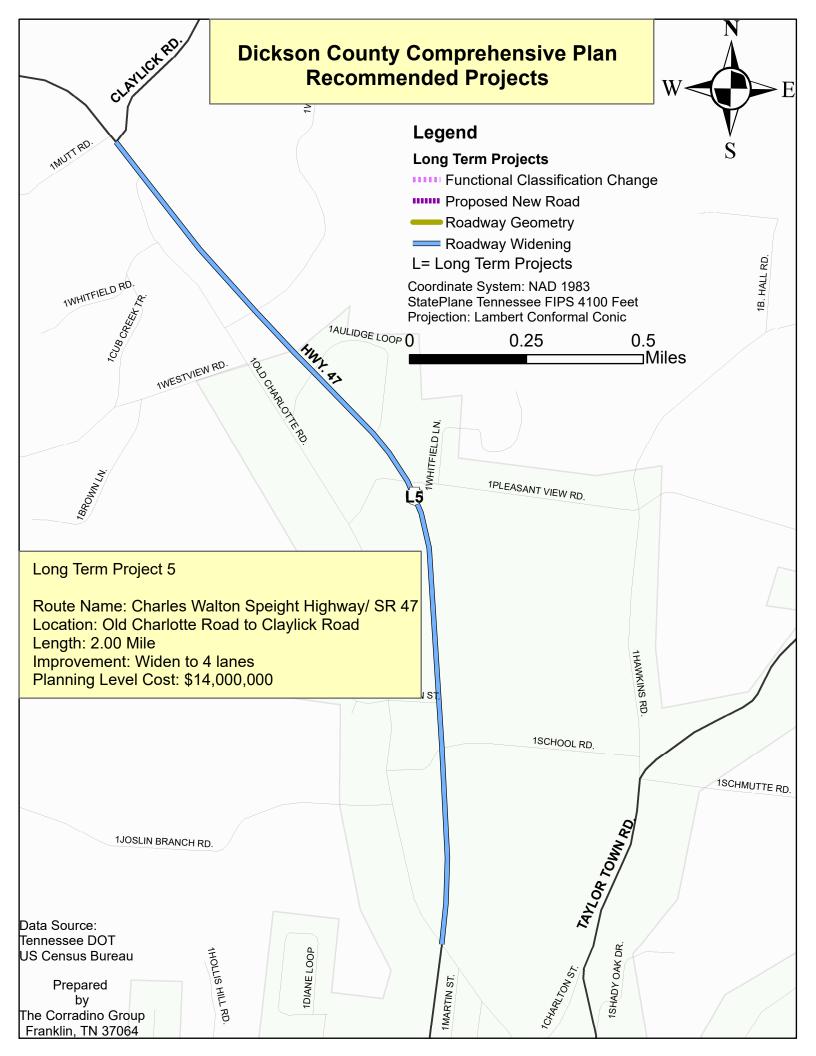


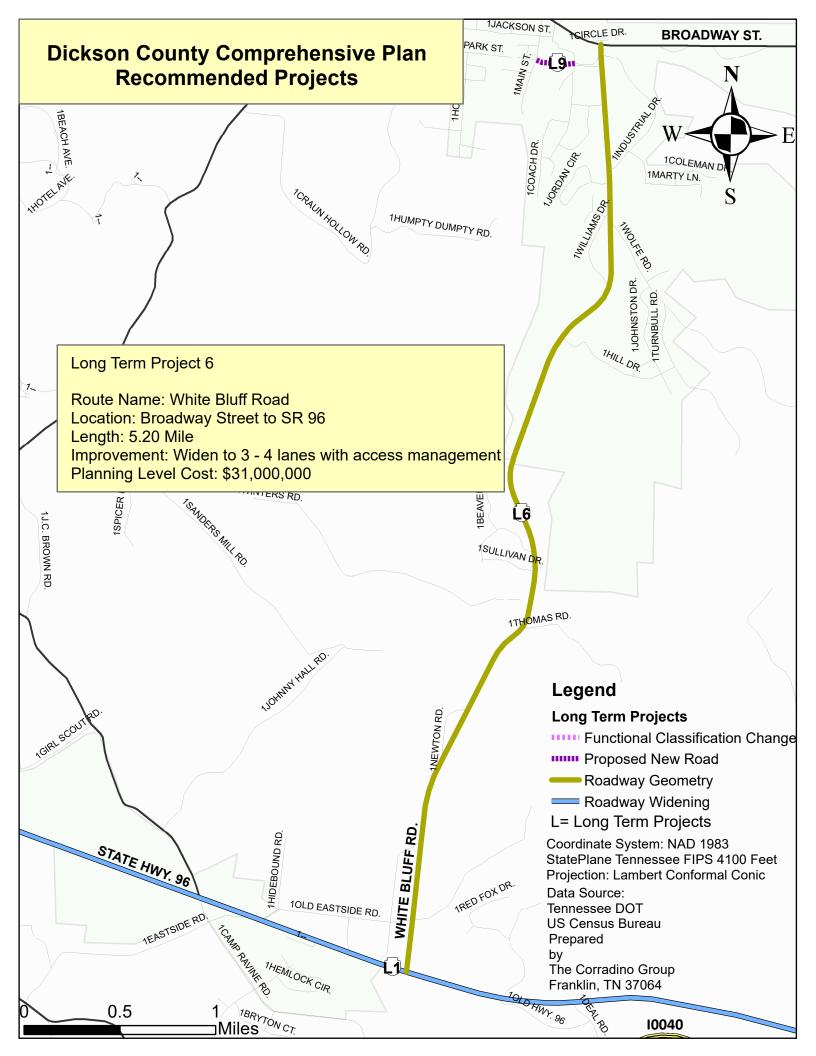


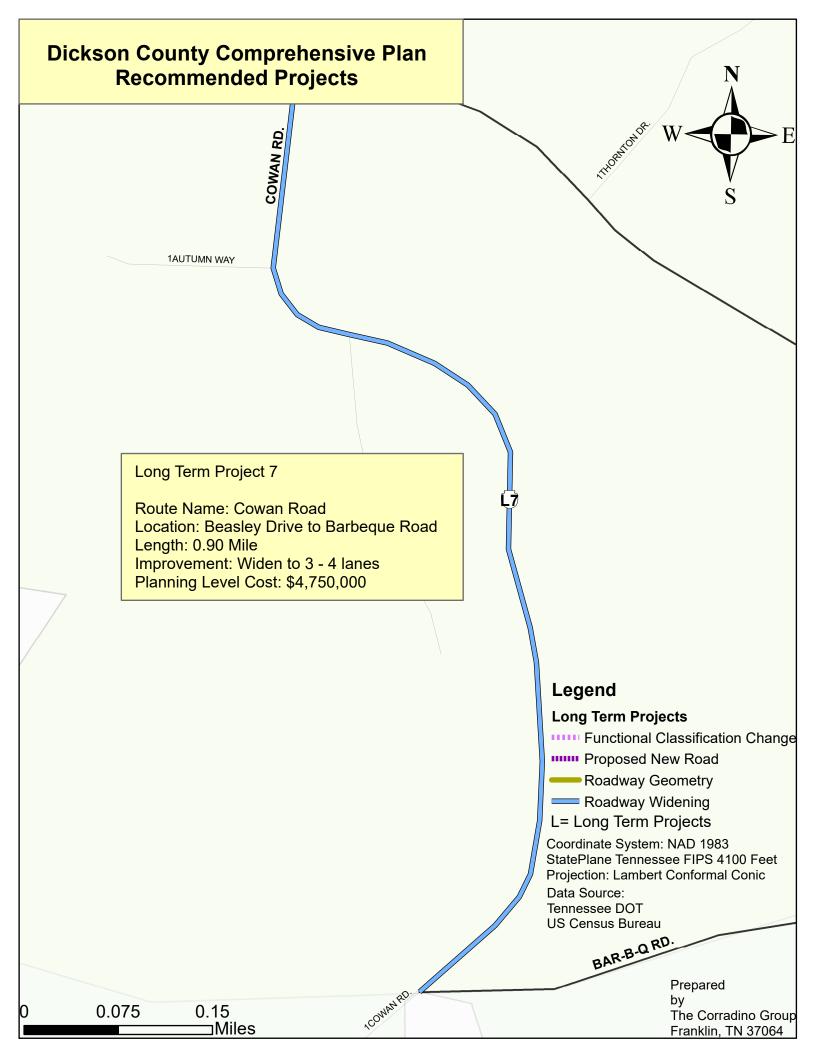


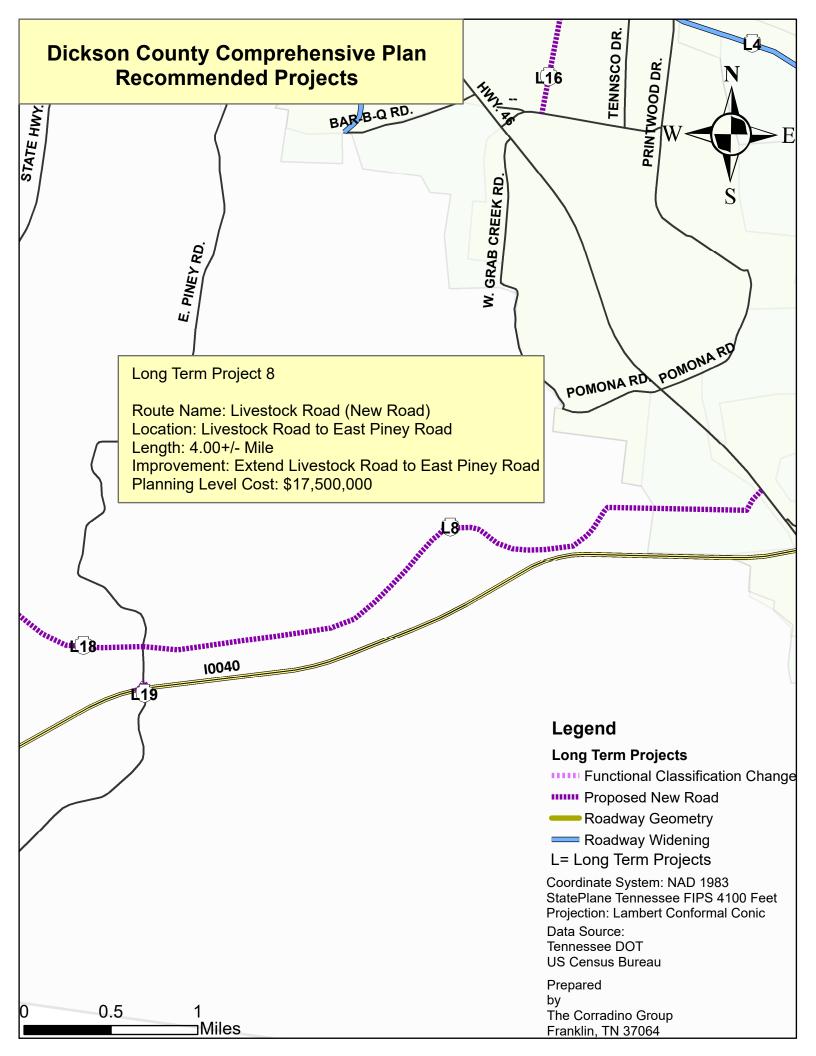


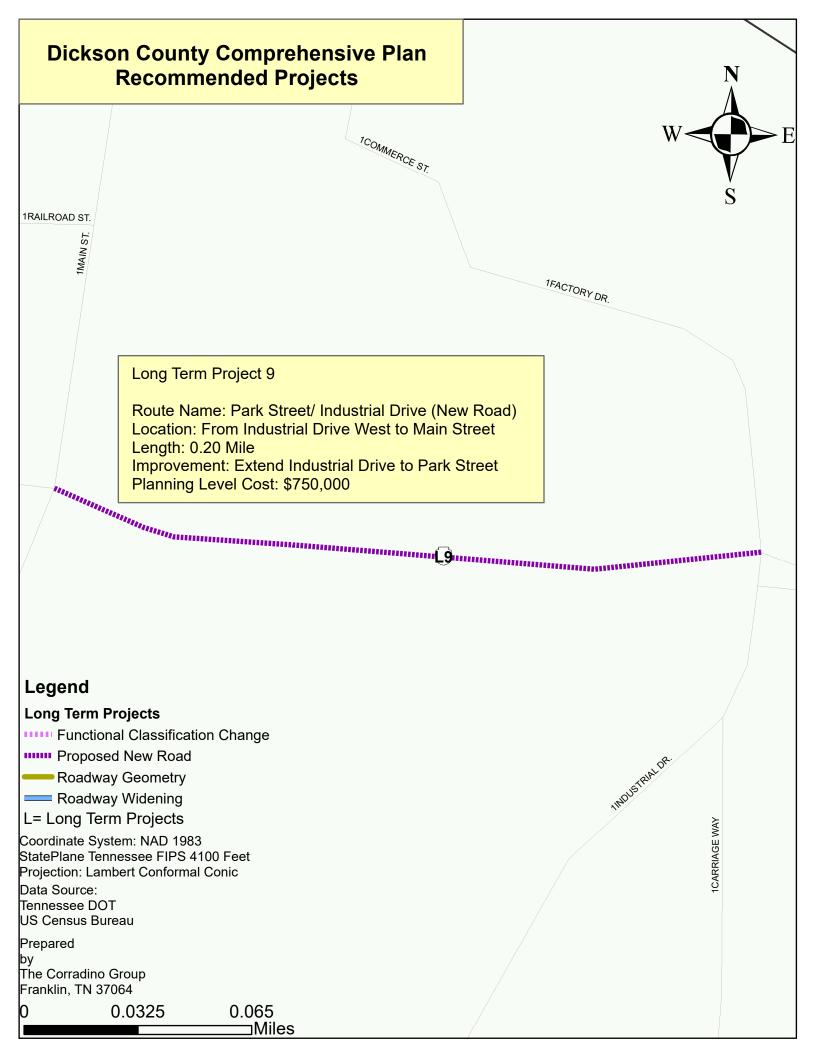


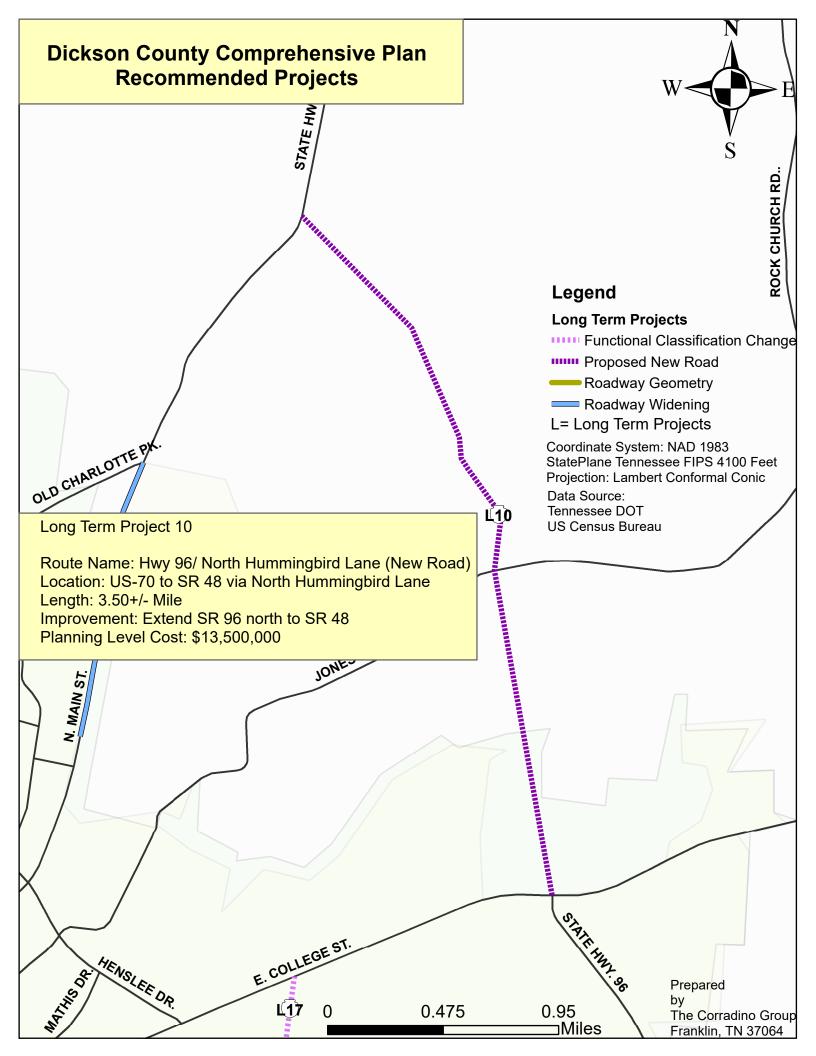


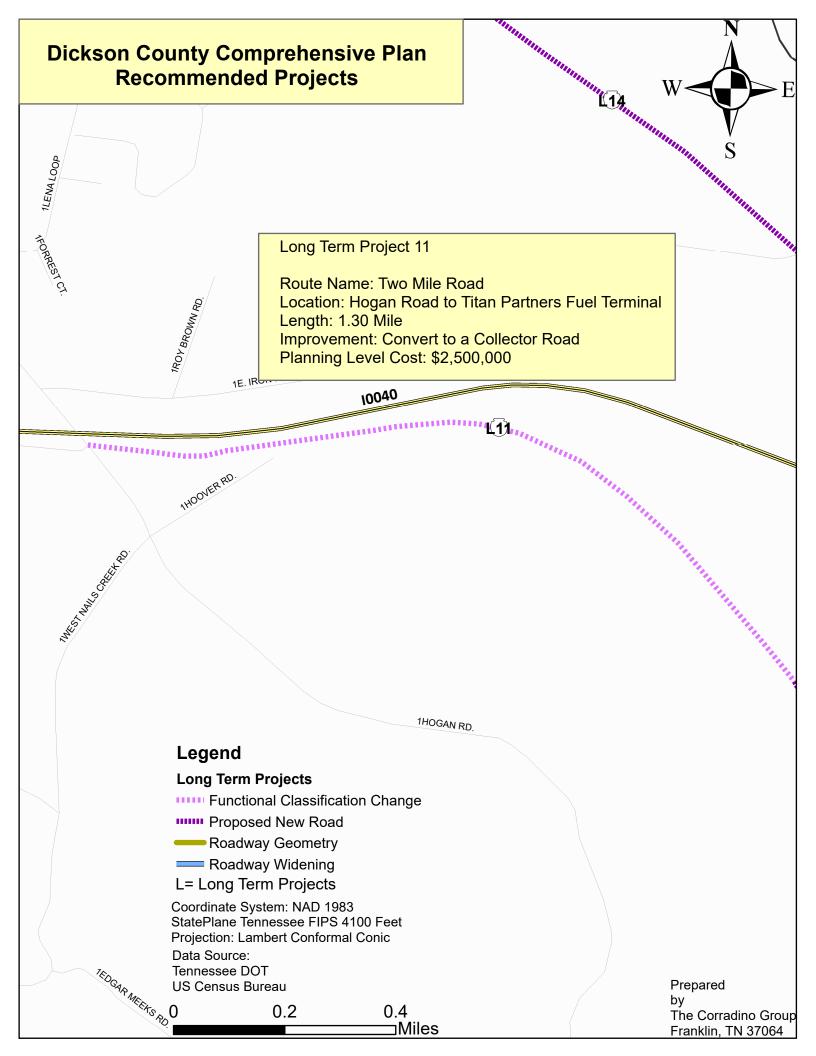




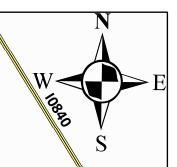








Dickson County Comprehensive Plan Recommended Projects



Long Term Project 12

Route Name: Two Mile Road (New Road)

Location: Titan Partners Fuel Terminal to Porter Road

Length: 1.00 Mile

Improvement: Extend Two Mile Road south to Porter Road

Planning Level Cost: \$3,500,000

Legend

Long Term Projects

Functional Classification Change

Proposed New Road

Roadway Geometry

Roadway Widening

L= Long Term Projects

Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100 Feet Projection: Lambert Conformal Conic

Data Source: Tennessee DOT US Census Bureau

Prepared

by

The Corradino Group Franklin, TN 37064

1PORTER RD.

1HOGAN RD.

0.125 0.25 Miles

J

