



**TRANSPORTATION-STREET-GARAGE COMMITTEE
AGENDA**

DATE: September 29, 2021

LOCATION: Street Department Conference Room, 199 10th St Clarksville, TN 37040

TIME: 3:00 P.M.

- I. CALL TO ORDER
- II. ATTENDANCE
- III. ADOPTION OF MINUTES:
 - A. July 28, 2021
- IV. DEPARTMENT REPORTS
 - A. Transportation Department- Paul Nelson
 - 1. Ridership Report for July and August 2021
 - 2. Financial Report for July 2021
 - 3. New Business
 - B. Street Department - David Shepard
 - 1. Paving Update
 - 2. Capital Project Update
 - 3. Transportation 2020
 - C. Garage Committee - Bill Lee
 - 1. Overview of City Garage Monthly report
- V. COMMITTEE ACTION REQUIRED (action required)
 - A. Stormwater Manual Update
 - B. IDDE Manual Update
 - C. Ordinance 27-2021-2022
- VI. CITY COUNCIL ACTION REQUIRED (action required)
 - A. Ordinance 27-2021-2022
- VII. PUBLIC COMMENTS
 - A. No individuals
- VIII. ADJOURNMENT

Transportation, Street and Garage Committee Meeting Minutes
Wednesday, July 28th, 2021 at 3:00pm
Street Department Large Conference Room

Members Present:

Wanda Smith, Chairperson
Travis Holleman, Councilman
Trisha Butler, Councilman

Transit

Paul Nelson, Director
Lori Wallis, Financial Director
Scott Graves, Business Analyst
Veronica Williams, Administrative Support Specialist

Street

David Shepard, Director
Chris Cowan, Engineer Manager
Scott Bibb, Assistant Director
Bethany Daniel, Administrative Support Technician
Jerome Henderson, Engineer

Garage

Bill Lee, Director
Loretta Smith, Administrative Support Specialist

CALL TO ORDER:

July 28th, 2021 at 3:00p.m... Transportation, Street & Garage Committee (TSG) meeting was called to order by Chairperson Wanda Smith. The members in attendance are Travis Holleman and Tisha Butler.

Chairperson Wanda Smith entertained a motion for approval of the March 2021 Transportation minutes, all were in favor and the minutes were approved.

TRANSPORTATION

RIDERSHIP REPORT:

Paul Nelson went over the Ridership for March, April, May and June. June Ridership report CTS carried 36,740 passengers. June is the end of our fiscal year so CTS had a total of 436,734. That put us down to about 32% over the previous year. This is consistent with the transit industry after bouncing back after Covid. Chairperson Wanda Smith asked, "How has this reflected the revenue?" Paul Nelson answered, "The fare revenue is down due to the ridership." Chairperson Wanda Smith asked, "By what percentage?" Paul Nelson replied, "I don't have that but I would say it is right at about 30%." There were no other questions.

FINANCIAL REPORT:

Lori Wallis went over the Financial Report for the month of May 2021. The revenue was over budget year to date \$44,910.72. The Operating expenses were under budget \$16,445.27, making the year to date \$61,355.99. There were no questions.

TRANSIT UPDATES:

CTS is working on the Northside redesign. Looking to put a hub for buses. The plan for this project is to be about 9 months to a year away. We should have a complete redesign at the end. Have faster headway and add new areas.

The downtown area shuttle was scheduled to start in September but was forced to start today due to some issues. It will be a free shuttle around the central business district. For people to use at any parking lot around the central business district. For shopping around the downtown area. It is also on our app. So download the ETA app. That way you can see where the van is.

CTS is working on a Strategic Plan update. We won a grant from TDOT, the Urban Area Planning Grant. That is going to help us update our Strategic Plan for the next 5 years.

CTS is putting in for an approved act application for a new bus shed for our property the cost is \$740,000.00.

CTS has 2 new buses on order for August 2022.

CTS is looking into new innovations. One is a bus stop with a pole and has 2 seats on it. So they will have somewhere to set when there are no benches around. Transit Token is also one of the new innovations we are looking into.

CTS Operator of the month Mr. Guy Radcliff and our Maintenance employee for the quarter Mr. Johnny Cloy. We thank them for their hard work.

Chairperson Wanda Smith asked, "What are the operation hours for the shuttle?" Paul Nelson said, "It is going to run 7am to 7pm, Monday through Friday and select Saturday. That is if there is an event downtown."

COMMITTEE ACTION REQUIRED:

CTS needs approval for their Public Transportation Agency Safe Plan known as PTAS. It is something that was mandated back in 2019. It's updated annually. We had to add new safety features and safety goals. We need approval from TSG Council Members.

Chairperson Wanda Smith entertained a motion for approval of the Public Transportation Agency Safe Plan all were in favor and it was approved.

STREET DEPARTMENT

Departmental Report:

Mr. Shepard informed the committee our paving schedule for summer and fall that is done inhouse and contracted out.

Sidewalks Project - are being constructed on West Concord.

Capital Projects:

Whitefield Road - this project is starting with the utility relocation and most of the work will be on the side of the road. The construction company has started moving equipment and signage into the area.

Rossvie - Construction Company was presented a schedule of completion to have phase 1 done from SR-24 to the Rossvie School Complex in a couple months.

Transportation 2020:

Highway 48/13 Sidewalk/Crossroads, Memorial Extension, Needmore Road, Exit 1 Traffic Signals & Ramps is our top priority in the Traffic 2020, so a notice of interest went out to companies to consult on these projects. The interest letters are due by Wednesday and will be evaluated by a team.

Committee Action Required:

Ordinance 5-2021-22:

Chairperson Wanda Smith entertained a motion for approval of Ordinance 5-2021-22, all members were in favor and the Ordinance 5-2021-22 was approved.

GARAGE DEPARTMENT

Department Report:

Mr Lee went over fuel pricing, work order totals and work order hours for the month of June 2021. There were no questions.

Adjournment:

Chairperson Wanda Smith entertained a motion to adjourn. Chairperson Wanda Smith adjourned the meeting.

A handwritten signature in dark ink, appearing to read 'Wanda Smith', is written over a horizontal line.

Chairperson

9-29-21

Date

Clarksville Transit System August 2021 Ridership Report

DATE	DAY	FIXED ROUTE	DEMAND RESPONSE	SPECIAL SERVICE	SYSTEM
02-Aug-21	Mon	1,381	126	0	1,507
03-Aug-21	Tue	1,578	120	0	1,698
04-Aug-21	Wed	1,479	122	0	1,601
05-Aug-21	Thu	1,482	117	0	1,600
06-Aug-21	Fri	1,342	159	0	1,501
07-Aug-21	Sat	1,113	70	0	1,183
09-Aug-21	Mon	1,512	132	0	1,644
10-Aug-21	Tue	1,508	130	0	1,638
11-Aug-21	Wed	1,425	144	0	1,569
12-Aug-21	Thu	1,320	118	0	1,438
13-Aug-21	Fri	1,354	168	0	1,522
14-Aug-21	Sat	1,052	62	0	1,114
16-Aug-21	Mon	1,408	120	0	1,528
17-Aug-21	Tue	1,479	117	0	1,596
18-Aug-21	Wed	1,306	126	0	1,434
19-Aug-21	Thu	1,405	106	0	1,511
20-Aug-21	Fri	1,475	160	0	1,635
21-Aug-21	Sat	1,109	67	0	1,176
23-Aug-21	Mon	1,633	119	0	1,752
24-Aug-21	Tue	1,642	138	0	1,781
25-Aug-21	Wed	1,629	181	0	1,810
26-Aug-21	Thu	1,499	101	0	1,600
27-Aug-21	Fri	1,566	157	0	1,723
28-Aug-21	Sat	1,110	49	117	1,276
30-Aug-21	Mon	1,541	133	0	1,674
31-Aug-21	Tue	1,058	112	0	1,170
Totals		36,416	3,157	117	39,690

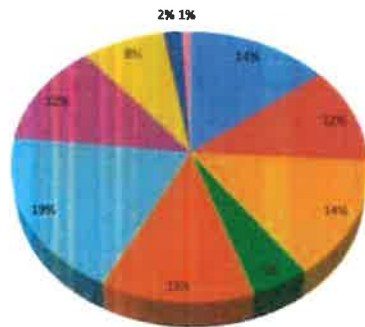
Fixed Route	August 2021
Daily Average	1,401
M-F Average	1,456
Saturday Average	1,096
Total Weekday (M-F)	32,032
Total Weekend (Sat)	4,384
Fixed Route Total	36,416
Special Service	117
Senior Citizens	7,374
Disabled	3,401
Wheelchairs	355
Bicycles	773
Children Under Age of 4	433
Operating Days	26

Demand Response (DR)	August 2021
DR Average (M-F)	132
DR Average (Sat)	82
DR Total (M-F)	2,905
DR Total (Sat)	246
DR Total	3,157

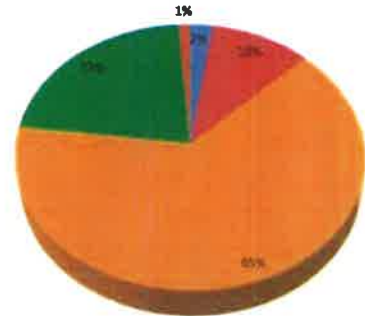
Clarksville DASH	August 2021
DASH Total:	42

FY 2022 Ridership	79,178
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DATE	DAY	FIXED ROUTE	DEMAND RESPONSE	SPECIAL SERVICE	TOTAL
02-Aug-21	Mon	60	0	0	60
03-Aug-21	Tue	57	0	0	57
04-Aug-21	Wed	56	0	0	56
05-Aug-21	Thu	68	0	0	68
06-Aug-21	Fri	47	0	0	47
07-Aug-21	Sat	37	0	0	37
08-Aug-21	Mon	60	0	0	60
09-Aug-21	Tue	67	0	0	67
10-Aug-21	Wed	59	0	0	59
11-Aug-21	Thu	60	0	0	60
12-Aug-21	Fri	62	0	0	62
13-Aug-21	Sat	52	0	0	52
14-Aug-21	Mon	92	0	0	92
15-Aug-21	Tue	104	0	0	104
16-Aug-21	Wed	71	0	0	71
17-Aug-21	Thu	96	0	0	96
18-Aug-21	Fri	104	0	0	104
19-Aug-21	Sat	63	0	0	63
20-Aug-21	Mon	108	93	0	201
21-Aug-21	Tue	88	75	0	163
22-Aug-21	Wed	100	100	0	200
23-Aug-21	Thu	90	84	0	174
24-Aug-21	Fri	114	50	0	164
25-Aug-21	Sat	61	0	0	61
26-Aug-21	Mon	75	142	0	217
27-Aug-21	Tue	79	124	0	203
Totals		1,456	3,401	117	39,690

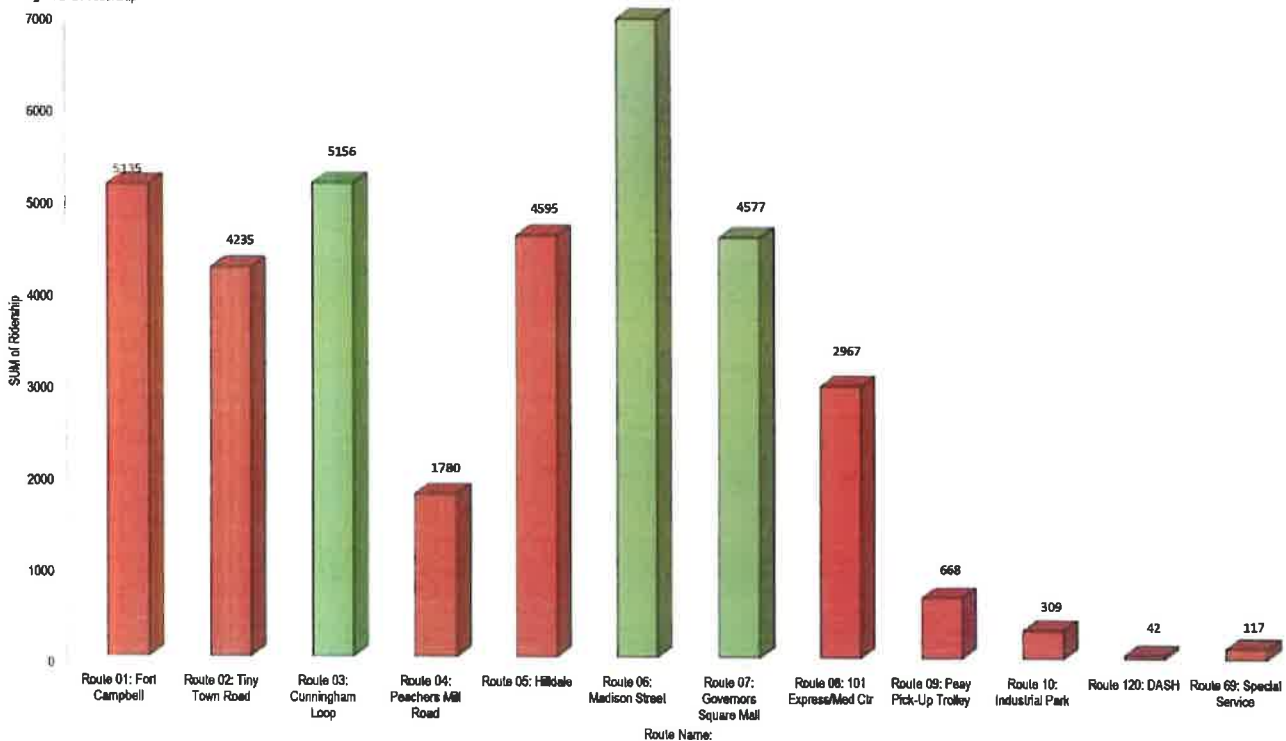


- Route 01: Fort Campbell
- Route 02: Tiny Town Road
- Route 03: Cunningham Loop
- Route 04: Peachers Mill Road
- Route 05: Hilldale
- Route 06: Madison Street
- Route 07: Governors Square Mall
- Route 08: 101 Express/Med Ctr
- Route 09: Peay Pick-Up Trolley
- Route 10: Industrial Park



- BICYCLE
- DISABLED
- REGULAR
- SENIOR
- WHEELCHAIR

August 2021 Ridership



Clarksville Transit System July 2021 Ridership Report

DATE	DAY	FIXED ROUTE	DEMAND RESPONSE	SPECIAL SERVICE	SYSTEM
01-Jul-21	Thu	1,232	106	0	1,338
02-Jul-21	Fri	1,567	132	0	1,699
03-Jul-21	Sat	1,308	77	1,182	2,567
05-Jul-21	Mon	1,028	71	0	1,099
06-Jul-21	Tue	1,379	121	0	1,500
07-Jul-21	Wed	1,419	145	0	1,564
08-Jul-21	Thu	1,409	105	0	1,514
09-Jul-21	Fri	1,405	133	0	1,538
10-Jul-21	Sat	1,045	66	0	1,111
12-Jul-21	Mon	1,343	113	0	1,456
13-Jul-21	Tue	1,260	122	0	1,382
14-Jul-21	Wed	1,410	145	0	1,555
15-Jul-21	Thu	1,420	125	0	1,545
16-Jul-21	Fri	1,373	139	0	1,512
17-Jul-21	Sat	1,032	55	0	1,087
19-Jul-21	Mon	1,393	111	0	1,504
20-Jul-21	Tue	1,337	99	0	1,436
21-Jul-21	Wed	1,276	140	0	1,416
22-Jul-21	Thu	1,285	94	0	1,379
23-Jul-21	Fri	1,409	151	0	1,560
24-Jul-21	Sat	1,028	69	0	1,097
26-Jul-21	Mon	1,321	104	0	1,425
27-Jul-21	Tue	1,385	88	0	1,473
28-Jul-21	Wed	1,387	133	0	1,520
29-Jul-21	Thu	1,256	102	0	1,358
30-Jul-21	Fri	1,487	133	0	1,620
31-Jul-21	Sat	1,162	71	0	1,233
Totals		35,356	2,950	1,182	39,488

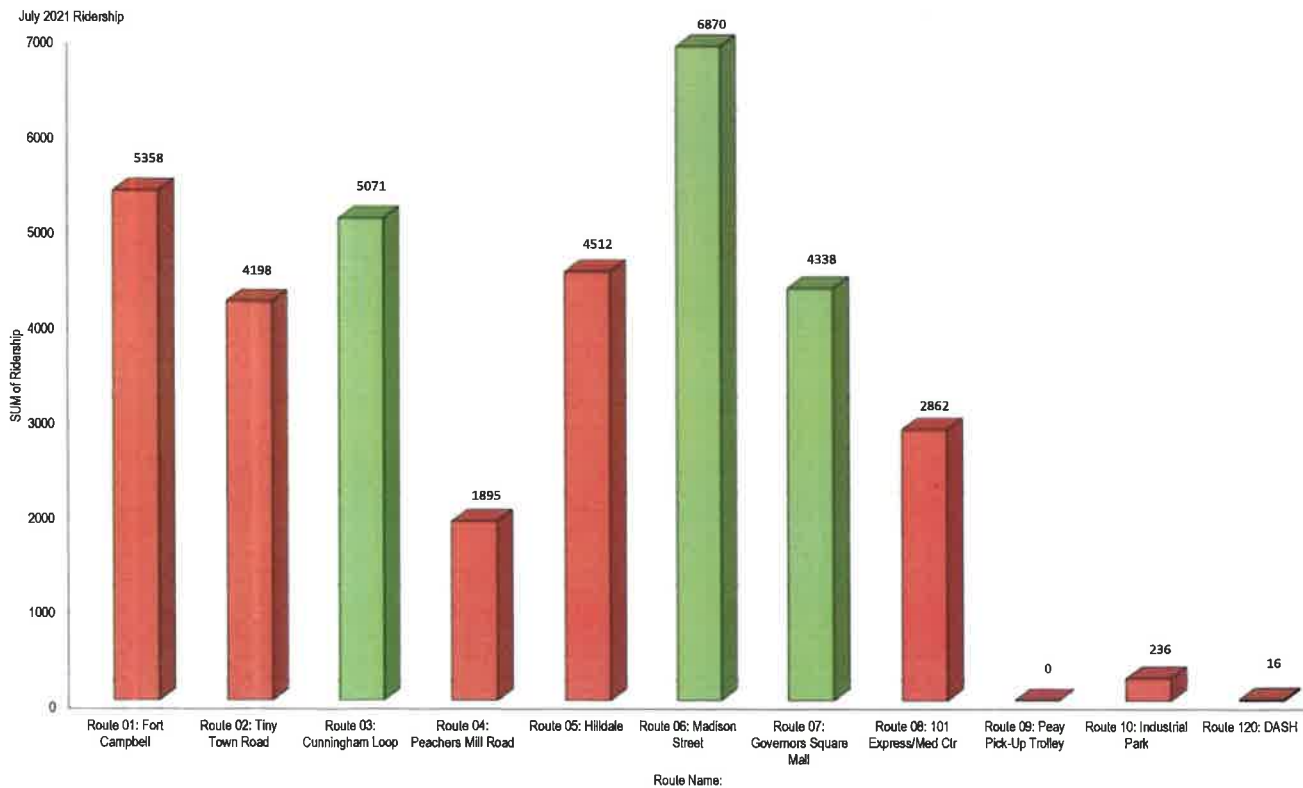
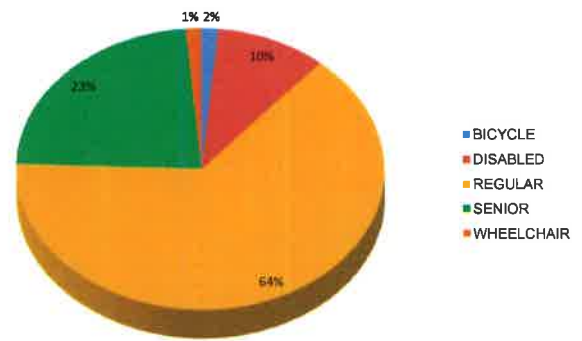
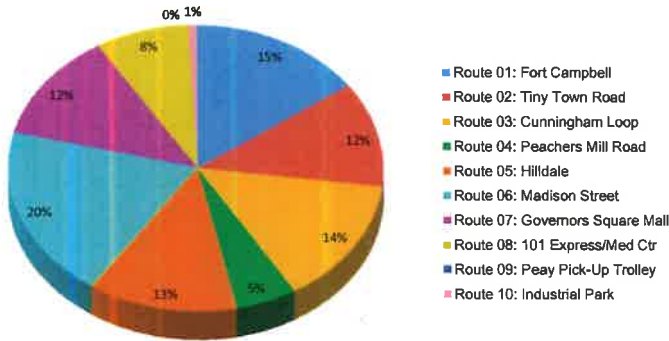
Fixed Route	July 2021
Daily Average	1,309
M-F Average	1,354
Saturday Average	1,115
Total Weekday (M-F)	29,781
Total Weekend (Sat)	5,575
Fixed Route Total	35,356
Special Service	1,182
Senior Citizens	7,566
Disabled	3,227
Wheelchairs	440
Bicycles	497
Children Under Age of 4	568
Operating Days	27

Demand Response (DR)	July 2021
DR Average (M-F)	119
DR Average (Sat)	68
DR Total (M-F)	2,612
DR Total (Sat)	338
DR Total	2,950

Clarksville DASH	July 2021
DASH Total:	16

FY 2021 Ridership	39,488
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DATE	DAY	FIXED ROUTE	PEAY PICKUP	TOTAL
01-Jul-21	Thu	47	0	47
02-Jul-21	Fri	68	0	68
03-Jul-21	Sat	14	0	14
06-Jul-21	Mon	52	0	52
08-Jul-21	Tue	63	0	63
07-Jul-21	Wed	46	0	46
08-Jul-21	Thu	54	0	54
09-Jul-21	Fri	45	0	45
10-Jul-21	Sat	51	0	51
12-Jul-21	Mon	50	0	50
13-Jul-21	Tue	35	0	35
14-Jul-21	Wed	48	0	48
15-Jul-21	Thu	56	0	56
16-Jul-21	Fri	33	0	33
17-Jul-21	Sat	33	0	33
19-Jul-21	Mon	39	0	39
20-Jul-21	Tue	48	0	48
21-Jul-21	Wed	26	0	26
22-Jul-21	Thu	62	0	62
23-Jul-21	Fri	54	0	54
24-Jul-21	Sat	36	0	36
26-Jul-21	Mon	49	0	49
27-Jul-21	Tue	62	0	62
28-Jul-21	Wed	61	0	61
29-Jul-21	Thu	49	0	49
30-Jul-21	Fri	63	0	63
31-Jul-21	Sat	42	0	42
Totals		1244	0	1244



CLARKSVILLE TRANSIT SYSTEM
CITY OF CLARKSVILLE TENNESSEE
SUMMARY FINANCIAL STATEMENT
JULY 2021

	MONTHLY ACTUALS	MONTHLY BUDGET	MONTHLY VARIANCE	Y-T-D ACTUALS	Y-T-D BUDGET	Y-T-D VARIANCE
PASSENGER FARES	33,469.21	29,652.08	3,817.13	33,469.21	29,652.08	3,817.13
SPECIAL TRANSIT FARES	21,954.13	16,736.83	5,217.30	21,954.13	16,736.83	5,217.30
ADVERTISING SERVICES	16,225.00	9,166.67	7,058.33	16,225.00	9,166.67	7,058.33
INTEREST REVENUE	4.20	8.33	(4.13)	4.20	8.33	(4.13)
NON-TRANSPORTATION FUNDS	600.00	625.00	(25.00)	600.00	625.00	(25.00)
TOTAL DIRECTLY GENERATED FUNDS	72,252.54	56,188.92	16,063.62	72,252.54	56,188.92	16,063.62
FEDERAL ASSISTANCE	0.00	394,322.83	(394,322.83)	0.00	394,322.83	(394,322.83)
STATE ASSISTANCE	248,981.00	84,740.33	164,240.67	248,981.00	84,740.33	164,240.67
LOCAL ASSISTANCE	255,348.71	123,606.17	131,742.54	255,348.71	123,606.17	131,742.54
TOTAL FED/STATE/LOCAL ASSISTANCE	504,329.71	602,669.33	(98,339.62)	504,329.71	602,669.33	(98,339.62)
TOTAL ALL REVENUES	576,582.25	658,858.25	(82,276.00)	576,582.25	658,858.25	(82,276.00)
WAGES & FRINGES	476,144.96	513,146.08	37,001.12	476,144.96	513,146.08	37,001.12
SERVICES	14,505.13	23,977.42	9,472.29	14,505.13	23,977.42	9,472.29
FUEL AND LUBRICANTS	46,369.11	75,083.33	28,714.22	46,369.11	75,083.33	28,714.22
TIRES AND TUBES	2,671.92	2,166.67	(505.25)	2,671.92	2,166.67	(505.25)
OTHER MATERIALS AND SUPPLIES	15,467.99	18,310.00	2,842.01	15,467.99	18,310.00	2,842.01
UTILITIES	7,098.07	8,540.83	1,442.76	7,098.07	8,540.83	1,442.76
CASUALTY AND LIABILITY	12,009.63	11,596.25	(413.38)	12,009.63	11,596.25	(413.38)
MISCELLANEOUS EXPENSE	2,315.44	4,159.17	1,843.73	2,315.44	4,159.17	1,843.73
TOTAL OPERATING EXPENSES	576,582.25	656,979.75	80,397.50	576,582.25	656,979.75	80,397.50

AN ORDINANCE WAIVING CREDIT CARD COLLECTION FEES FOR THE TRANSIT DEPARTMENT.

WHEREAS, In accordance with Title 9, Chapter 1, Section 108 (2021) of Tennessee Code Annotated the City of Clarksville is provided with the ability to receive payment by credit card or debit card.

WHEREAS, TCA 9-1-108 currently states any municipal entity collecting payment by credit/debit card “shall” set and collect a processing fee. Also, provided for is a waiver of the processing fee by the governing body.

WHEREAS, Under certain situations, generally where a consumer is paying for a service, the costs associated with credit/debit card acceptance is included as a normal cost of operations. A waiver to collect processing fees is required. The following Departments accept credit cards and currently do not charge processing/transaction fees:

- Clarksville Gas & Water – waive all credit/debit card processing fees.
- Parking Commission – waive credit/debit card processing fees for remote payment of parking metered time.
- Parks & Recreation – waive all credit/debit card processing fees.
- Golf Courses – waive all credit/debit card processing fees.
- Clarksville Department of Electric – waive all credit/debit card processing fees when paid in person at CDE offices.
- Community Development – waive credit card fees related to loan repayments.

WHEREAS, The Transit Department currently accepts credit cards and will further be adding an app for bus fares. It has been determined the credit card processing fees will be cost prohibitive for the citizens to use the service.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CLARKSVILLE, TENNESSEE:

The City waives the requirement to collect credit/debit card processing fees for users of the Transit System. This shall include in person, bus or app credit card usage.

BE IT FURTHER ORDAINED:

This waiver in no way prohibits a City Department from changing their credit card acceptance model to include credit/debit card processing fees.

City Garage Committee Meeting

City Garage Monthly Report

For the AUGUST of 2021

City Wide Vehicle Expense Totals: \$229,018.38

Requisitions turned into Finance Department: \$179,457.797

Total number of Work Orders: 392

Total number of Work Order hours: 833

Total Parts Cost: \$ 48,362.19

Total Tire Cost: \$ 15,371.79

Total Aims Unit Cost: \$ 336.58

Total Labor Cost Billed to Gas & Water: \$ 642.95

Outside Work: \$ 7,206.44

<u>City Wide Gas and Diesel Totals Price from Fuel Master Onsite:</u>	Unleaded: \$91,442.63
	Diesel: \$ 19,265.19
	Total: \$ 110,707.82

<u>City Wide Gas and Diesel Total Gallons from Fuel Master Onsite:</u>	Unleaded: 38,990.49
	Diesel: 8,639.70
	Total: 47,630.19

<u>Citywide Gas and Diesel Total Price from Wex Offsite:</u>	Unleaded: \$ 26,536.64
	Diesel: \$ 19,853.97
	Totals: \$ 46,390.61

<u>Citywide Gas and Diesel Total Gallons from Wex Offsite:</u>	Unleaded: 10,102.21
	Diesel: 7,085.49
	Total: 17,187.70

Fuel Purchases Onsite: Deliveries: Unleaded 40,336 total gallons
Diesel 7,920 total gallons

Fuel Cost Unleaded: \$2.3285 per gallon (last delivery on 07/27/2021) INCREASE FROM \$2.1873

Fuel Cost Diesel: \$2.229 per gallon (last delivery on 07/28/2021) DECREASE FROM \$2.239

Garage Vehicle Repair Totals: 123.49

Garage Fuel Use Totals: 5162.47 Gallons fuel, total cost \$366.19

Bill Lee
Fleet Manager

City Garage Committee Meeting

City Garage Monthly Report

For the JULY of 2021

City Wide Vehicle Expense Totals: \$ 229,076.77

Requisitions turned into Finance Department: \$228,1888.13

Total number of Work Orders: 407

Total number of Work Order hours: 870.34

Total Parts Cost: \$ 55802.88

Total Tire Cost: \$ 17,154.01

Total Aims Unit Cost: \$ 336.58

Total Labor Cost Billed to Gas & Water: \$ 823.90

Outside Work: \$ 4297.82

City Wide Gas and Diesel Totals Price from **Fuel Master Onsite:**
Unleaded: \$91,477.58
Diesel: \$ 19,564.89
Total: \$ 111,042.47

City Wide Gas and Diesel Total Gallons from **Fuel Master Onsite:**
Unleaded: 38,406.85
Diesel: 8,713.35
Total: 47,120.20

Citywide Gas and Diesel Total Price from **Wex Offsite:**
Unleaded: \$ 24,314.73
Diesel: \$ 15,304.47
Totals: \$ 39,619.11

Citywide Gas and Diesel Total Gallons from **Wex Offsite:**
Unleaded: 9,287.77
Diesel: 5498.51
Total: 14,787.28

Fuel Purchases Onsite: **Deliveries:** Unleaded 41,842 total gallons
Diesel 11,868 total gallons

Fuel Cost Unleaded: \$2.389 per gallon (last delivery on 07/27/2021) INCREASE FROM \$2.259

Fuel Cost Diesel: \$2.21 per gallon (last delivery on 07/28/2021) DECREASE FROM \$2.23

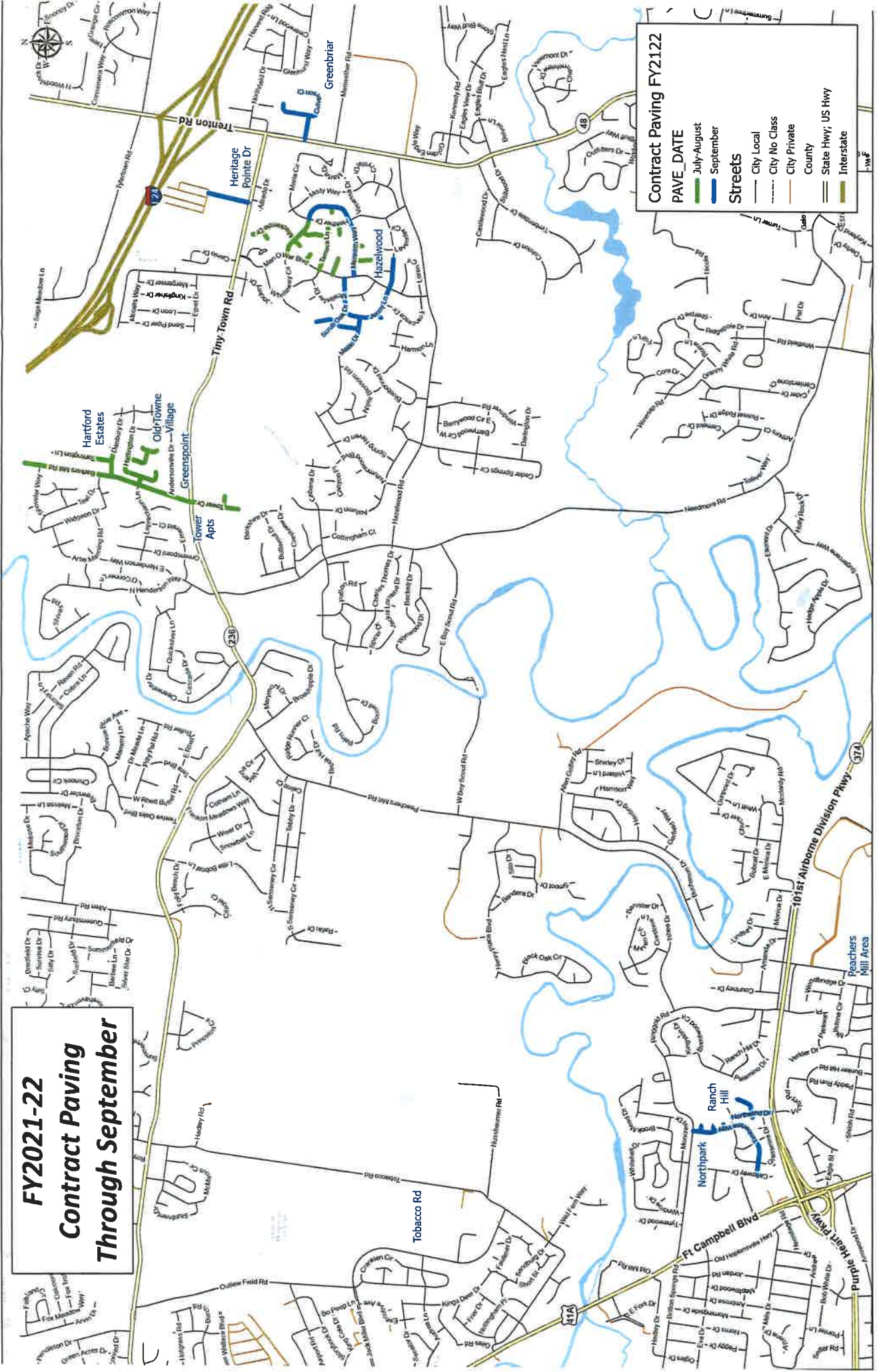
Garage Vehicle Repair Totals: NO REPAIRS FOR JULY 2021

Garage Fuel Use Totals: 58.67 Gallons fuel, total cost \$134.50

Bill Lee
Fleet Manager

Departmental Report

FY2021-22 **Contract Paving** **Through September**



Fall Cleanup – Yard Waste Removal

The City of Clarksville Street Department will begin its annual fall cleanup on October 18, 2021. This service will be available to residents within the City limits free of charge, and continue through November 30, 2021.

Pick up service shall include removal of normal yard waste only such as grass clippings, leaves, and limbs. The Street Department will **not** pick up tree stumps, tree limbs from topped trees, or limbs trimmed by a commercial tree service.

To have yard waste to be picked up, you may contact the Street Department during normal business hours at (931) 645-7464, or you may choose to call our pick up line (931) 472-3353 and leave your address with details of what you have such as limbs or biodegradable bags.

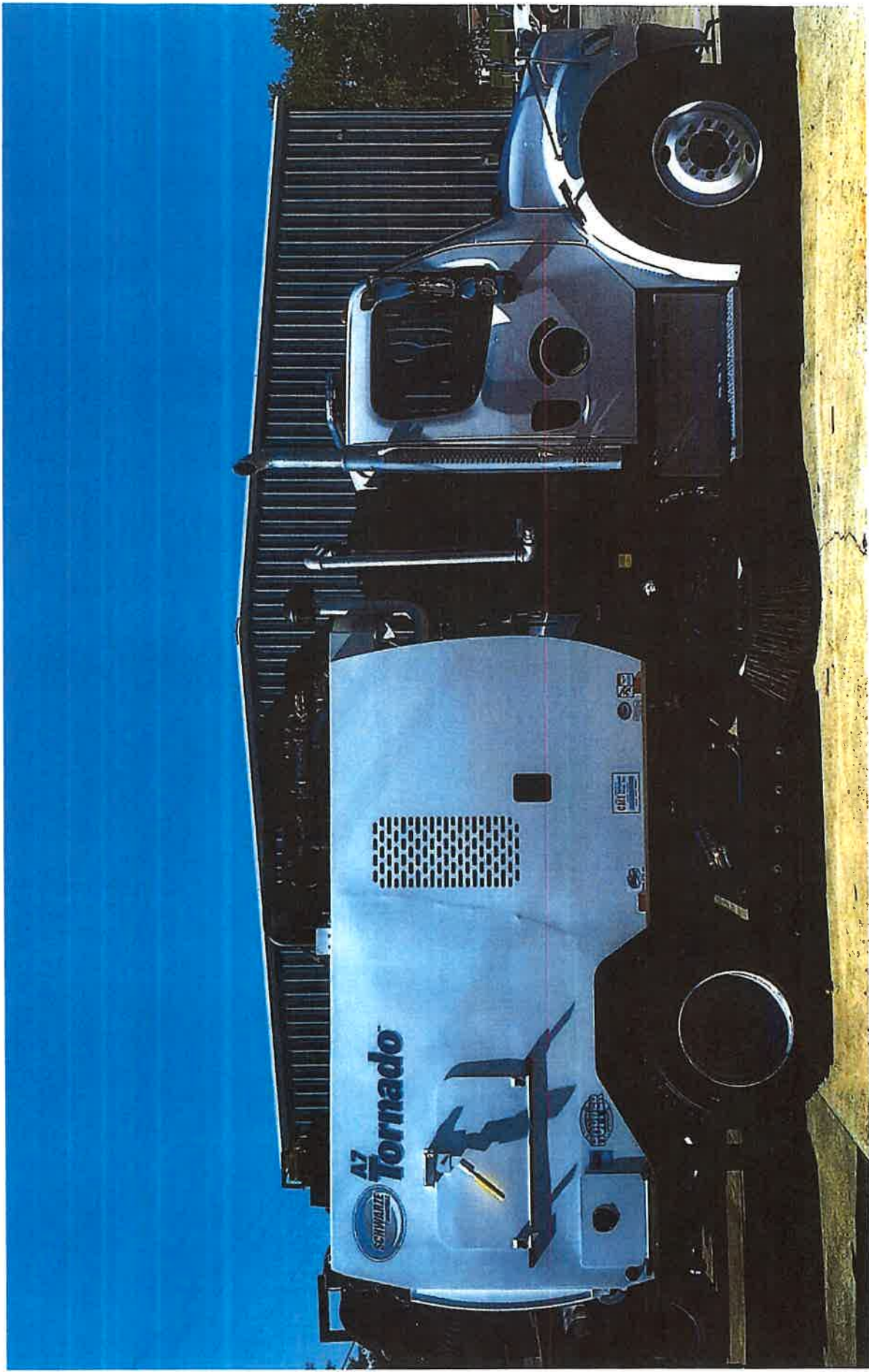
Normal Yard Waste for pick up shall meet the following criteria:

- Biodegradable paper bags (for grass clippings, leaves, and small limbs)
- Cardboard boxes (for grass clippings, leaves, and small limbs)
- Larger limbs must be cut to **8 feet** in length or shorter, and be less than 18 inches in diameter
- Address must be within the City limits
- Must be placed within 10 feet of the roadway, but not in the street, not blocking a drainage ditch, or the view of traffic
- **No tree stumps or limbs cut by a commercial company**
- Must call within designated time period (October 18 - November 30)

If you need additional information, or have questions or concerns, please contact the Clarksville Street Department during the normal business hours of Monday through Friday from 7:00am-3:30pm at (931) 645-7464.



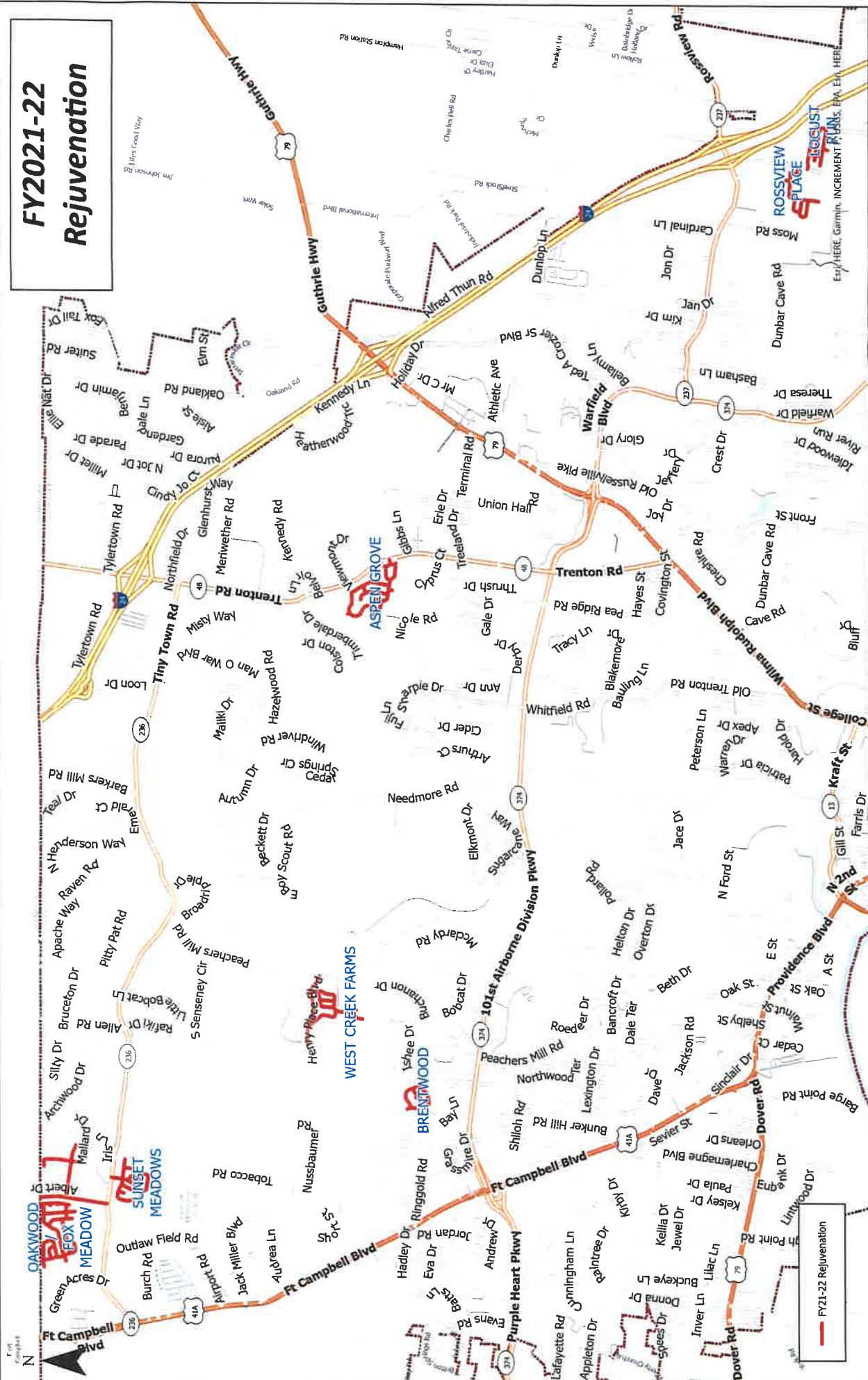
STREET SWEEPER



FRONT LOADER



Rejuvenation



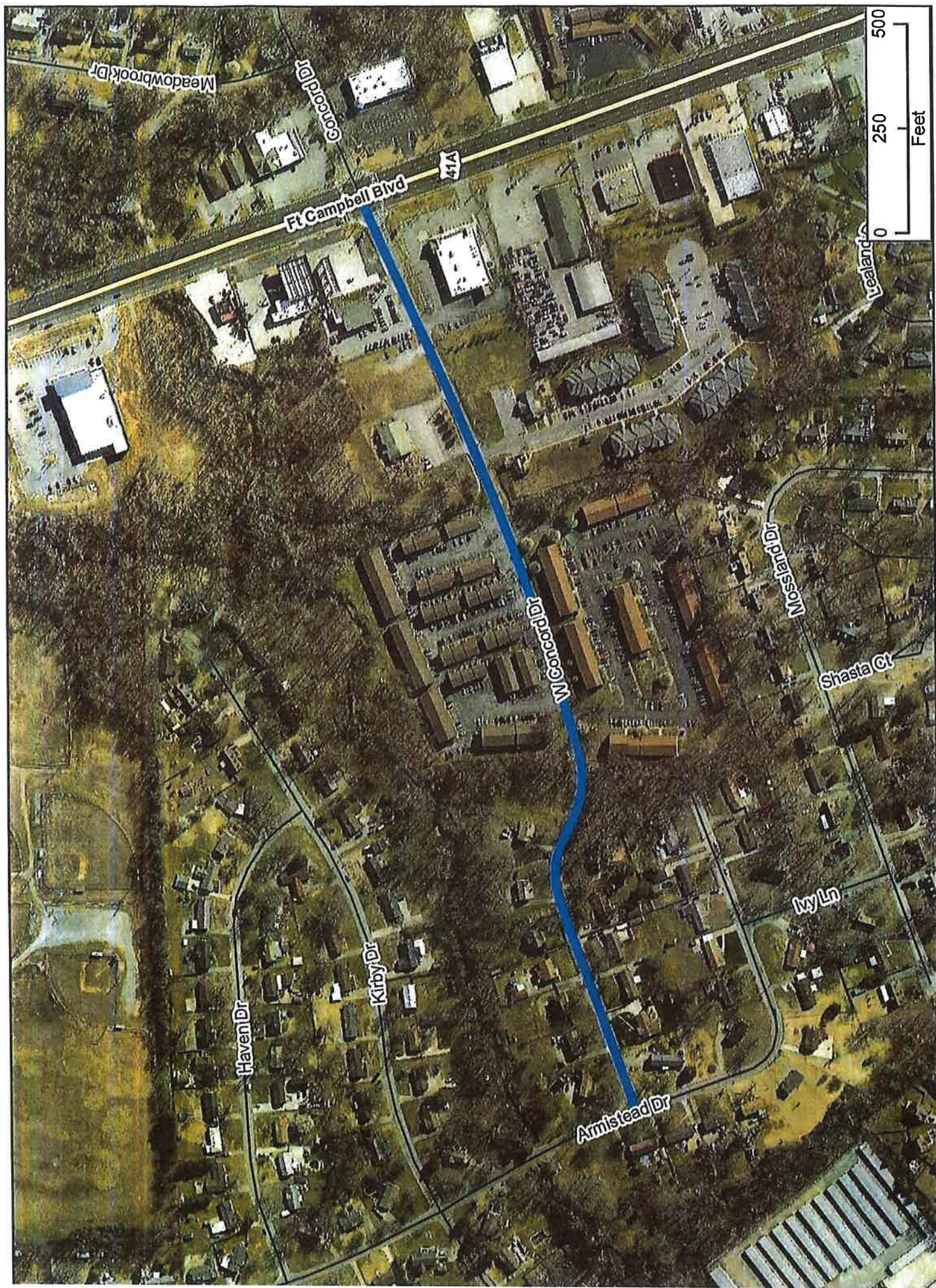
Capital Project Update





1. Rossview Road Improvements/ Dunbar Rd Realignment

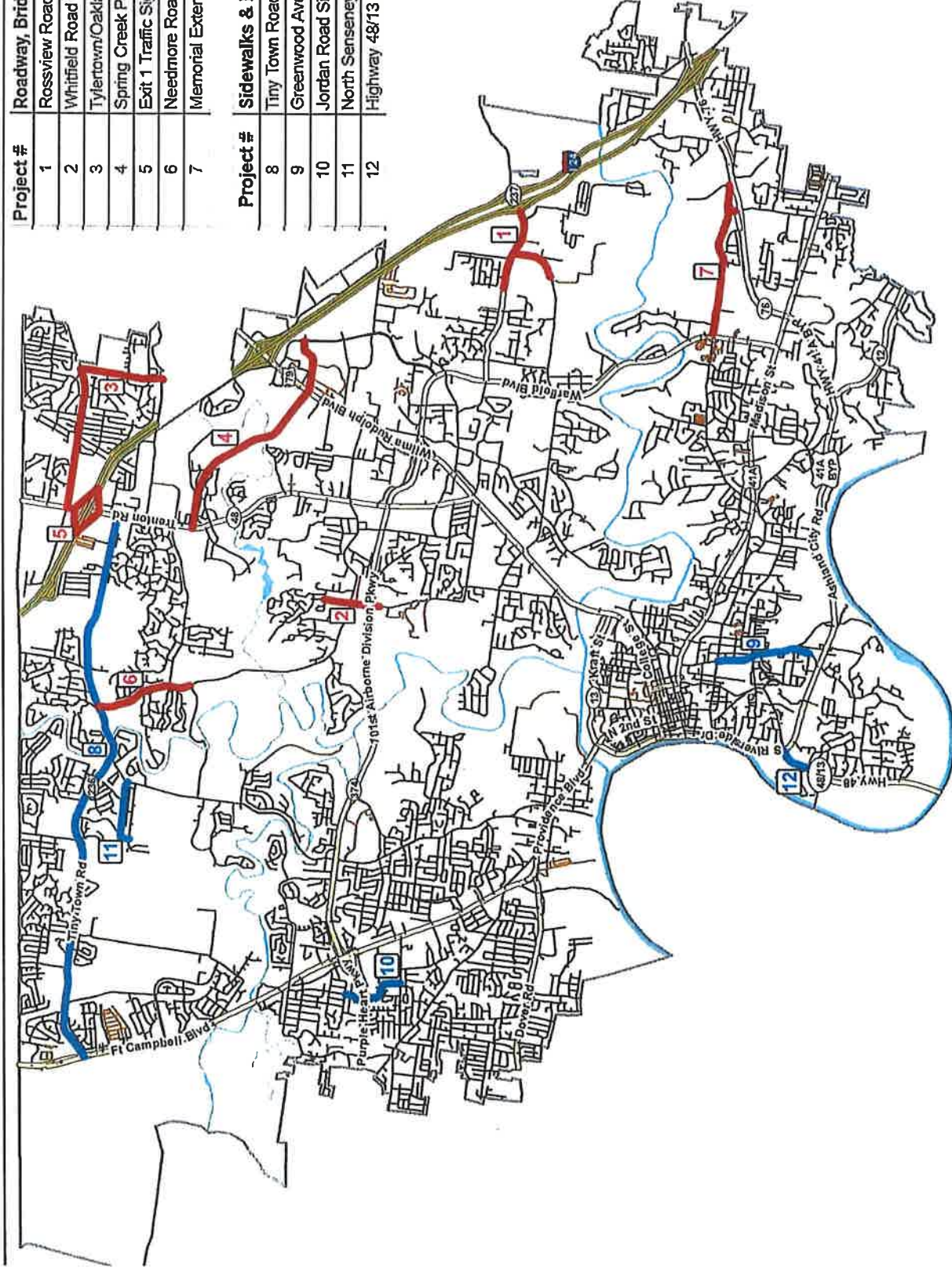
Clarksville Street Department's Tier 1 Projects



W Concord Dr Sidewalk (Armistead to Ft Campbell Blvd)

Transportation 2020 Update

Project #	Roadway, Bridge & Intersection Capacity Projects
1	Rosview Road Improvement/Dunbar Road Realignments
2	Whitfield Road Widening 101st - Needmore Intersection
3	Tylertown/Oakland Road Improvements
4	Spring Creek Parkway
5	Exit 1 Traffic Signals & Ramp/Lighting & Slip Lane
6	Needmore Road - Boy Scout to Tiny Town/Phase 1
7	Memorial Extension/Old Farmers Road/Trough Springs
Project #	Sidewalks & Multi-Use Path Projects
8	Tiny Town Road Sidewalks
9	Greenwood Ave Sidewalks
10	Jordan Road Sidewalks
11	North Senseney Circle/Barkers Mill School Sidewalks
12	Highway 48/13 Sidewalk/Crosswalk



Transportation 2020+ Road Projects

PROJECT TITLE
PROJECT MANAGER

Transportation 2020+
Clarksville Street Department

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT / CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (Millions)	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
1	Forecast Road Improvements / Other Road Realignments (2020+)											
1.1	Preliminary Design & Engineering	Insert Contact		3/12/18	3/15/18	Local	\$14.400	\$5.200	Complete	3/12/18		100%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/15/18				Complete	3/13/18		100%
1.2	Right of Way Acquisition Phase 1	Insert Contact		3/15/18	5/15/20				Complete	3/14/18		100%
1.2	Right of Way Acquisition Phase 2	Insert Contact		3/15/18	9/15/21				In Progress	3/14/18		90%
1.3	Utilities	Insert Contact		7/15/20	5/15/21				Complete	3/15/18		100%
1.3.1	CDE Lightband	Insert Contact		7/15/20	5/15/21				Complete	3/16/18		100%
1.3.2	Charter	Insert Contact		7/15/20	5/15/21				Complete	3/17/18		100%
1.3.3	Gas & Water	Insert Contact		7/15/20	5/15/21				Complete	3/18/18		100%
1.4	Contractor RFP	Insert Contact		5/15/20	6/1/20				Complete	3/19/18		100%
1.4.1	Contractor & Contracts Finalized	Insert Contact		6/15/20	7/15/20				Complete	3/20/18		100%
1.6	Construction Phase 1	Insert Contact		7/15/20	5/31/22				In Progress	3/21/18		40%
1.6	Construction - Phase 2	Insert Contact		7/15/20	5/31/22				Not Yet Started	3/21/18		10%

Project Update
Phase 1 construction is underway. Scheduled to be complete by May 31, 2022. Traffic is planned to be shifted over to the new lanes by November 2021.

Chris Cowan

3/22/18

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT / CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (Millions)	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
2 Whitfield Road Widening / 101st-Needmore Intersection (#19302)												
				3/12/18	3/15/18	Local	\$15,900	\$1,800	Complete	3/21/18		100%
1.1	Preliminary Design & Engineering	Insert Contact		3/15/18	3/16/18				Complete	3/22/18		100%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/21/18				Complete	3/23/18		100%
1.2	Right of Way Acquisition	Insert Contact		3/16/18	3/22/18				In Progress	3/24/18		0%
1.3	Utilities	Insert Contact		3/17/18	3/23/18				In Progress	3/25/18		0%
1.3.1	CDE Lightband	Insert Contact		3/18/18	3/24/18				In Progress	3/26/18		0%
1.3.2	Chatter	Insert Contact		3/19/18	3/25/18				In Progress	3/27/18		0%
1.3.2	AT&T	Insert Contact		7/16/20	5/16/21				In Progress			0%
1.3.3	Gas & Water	Insert Contact		3/19/18	3/22/18				Complete	3/28/18		100%
1.4	Contractor RFP	Insert Contact		3/19/18	3/22/18				Complete	3/29/18		100%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/23/18	3/23/18				In Progress	3/30/18		0%
1.6	Construction	Insert Contact								3/31/18		
Project Update												
Weekly meetings are being held to coordinate utility relocations.												
		Chris Cowan										
3 Tyertown / Oakland Road Improvements (#17305)												
				3/12/18	3/15/18	Local	\$10,000	\$1,300	Complete	3/21/18		100%
1.1	Preliminary Design & Engineering	Insert Contact	Brian Trotter, HDR	3/15/18	3/16/18				Complete	3/22/18		30%
1.1.1	Finalized Design	Insert Contact	Brian Trotter, HDR	3/15/18	3/21/18				In Progress	3/23/18		5%
1.2	Right of Way Acquisition Phase 1	Insert Contact	Brian Trotter, HDR	3/15/18	9/15/21				In Progress	3/14/18		0%
1.2.1	Right of Way Acquisition Phase 2	Insert Contact	Brian Trotter, HDR	3/16/18	3/22/18				Not Yet Started	3/24/18		0%
1.3	Utilities	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/25/18		0%
1.3.1	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/27/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/28/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/29/18		0%
1.4	Contractor RFP	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/30/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact										
1.6	Construction	Insert Contact										
Project Update												
ROW acquisition is underway to purchase all easement and property necessary to construct project. The project has been divided into three phases with Phase 1 receiving priority at this time.												
		Chris Cowan								3/31/18		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT / CONTRACTOR	START DATE	DUE DATE	FUNDING	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
4	Spring Creek Parkway (#15306)					Local	\$16,800	\$2,800			
1.1	Preliminary Design & Engineering	Insert Contact	Shap Stiles, Gresham	3/12/18	3/15/18			Complete	3/21/18		100%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/16/18			Complete	3/22/18		100%
1.2	Right of Way Acquisition Phase 1	Insert Contact	Shap Stiles, Gresham	3/15/18	3/21/18			In Progress	3/23/18		30%
1.2.1	Right of Way Acquisition Phase 2	Insert Contact	Shap Stiles, Gresham	3/15/18	3/21/18			In Progress	3/23/18		30%
1.2.2	Right of Way Acquisition Phase 3	Insert Contact	Shap Stiles, Gresham	3/15/18	3/21/18			In Progress	3/23/18		30%
1.3	Utilities	Insert Contact		3/16/18	3/22/18			In Progress	3/24/18		0%
1.3.1	Mid-Valley Pipe	Insert Contact		3/17/18	3/23/18			Complete	3/25/18		0%
1.3.2	Gas & Water	Insert Contact		3/18/18	3/24/18			Not Yet Started	3/26/18		0%
1.3.2	CDE Lightband	Insert Contact		3/19/18	3/25/18			Not Yet Started	3/27/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18			Not Yet Started	3/28/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18			Not Yet Started	3/29/18		0%
1.6	Construction Phase 1	Insert Contact		3/23/18	3/23/18			Not Yet Started	3/30/18		0%
1.6	Construction Phase 2	Insert Contact		3/23/18	3/23/18			Not Yet Started	3/30/18		0%
1.6	Construction Phase 3	Insert Contact		3/23/18	3/23/18			Not Yet Started	3/30/18		0%
Project Update	ROW and easement acquisition is underway for the entire project. Mid Valley pipe has completed their relocation to lower the crude oil pipeline crossing the project to avoid any conflict.										
		Chris Cowan							3/31/18		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT / CONTRACTOR	START DATE	DUE DATE	FUNDING	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
5	Exit 1 Traffic Signals & Ramp / Lighting & Slip Lane (#22305)					Local	\$0.290	\$0.000			
1.1	Preliminary Design & Engineering	Insert Contact	Brandon Taylor (KCI)	3/12/18	3/15/18			Not Yet Started	3/21/18		0%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/16/18			Not Yet Started	3/22/18		0%
1.2	Right of Way Acquisition	Insert Contact		3/15/18	3/21/18			Not Yet Started	3/23/18		0%
1.3	Utilities	Insert Contact		3/16/18	3/22/18			Not Yet Started	3/24/18		0%
1.3.1	Utility Company	Insert Contact		3/17/18	3/23/18			Not Yet Started	3/25/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/24/18			Not Yet Started	3/26/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18			Not Yet Started	3/27/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18			Not Yet Started	3/28/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18			Not Yet Started	3/29/18		0%
1.6	Construction	Insert Contact		3/23/18	3/23/18			Not Yet Started	3/30/18		0%
Project Update	Mayor getting in touch with TDO. Contract negotiations are underway with KCI to perform the roadway improvement design.										
		Chris Cowan							3/31/18		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (millions)	EXPENDITURES TO DATE (millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
6	Needmore Road -- E. Boy Scout to Tiny Town / Phase 1 (#22309)											
		Joe Green	Palige Harris (WSP)	11/1/21	7/1/22	Local	\$1,750	\$0,000	Not Yet Started	9/24/21	Phase 1 Task 6	0%
1.1	Preliminary Design & Engineering	Insert Contact							Not Yet Started	9/24/21	Phase 3 Task 12	0%
1.1.1	Finalized Design	Insert Contact							Not Yet Started	9/24/21	Phase 2 Task 10	0%
1.2	Right of Way Acquisition	Insert Contact							Not Yet Started	9/24/21	Phase 3 Task 13	0%
1.3	Utilities	Insert Contact							Not Yet Started	9/24/21	Utility Relocation Design	0%
1.3.1	CDE Lightband	Insert Contact							Not Yet Started			0%
1.3.2	Charter	Insert Contact							Not Yet Started			0%
1.3.2	AT&T	Insert Contact							Not Yet Started			0%
1.4	Contractor RFP	Insert Contact							Not Yet Started			0%
1.4.1	Contractor & Contracts Finalized	Insert Contact							Not Yet Started	9/24/21	Phase 4 Task 17	0%
1.6	Construction	Insert Contact							Not Yet Started			0%
Sent Contract Template WSP Revising Scope Will include COW in ROW Plans Willing to send out surveys to set control points at risk before the contract is finalized.												
Project Update												
		Joe Green								9/24/21		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (millions)	EXPENDITURES TO DATE (millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
7	Memorial Extension / Old Farmers Road / Trough Springs											
		Joe Green	Daniel Walton (Bargle)			Local	\$0,000	\$0,000	Not Yet Started	9/24/21	Approx. 6 months, start date TBD	0%
1.1	Preliminary Design & Engineering	Insert Contact							Not Yet Started			0%
1.1.1	Finalized Design	Insert Contact							Not Yet Started			0%
1.2	Right of Way Acquisition	Insert Contact							Not Yet Started			0%
1.3	Utilities	Insert Contact							Not Yet Started			0%
1.3.1	Utility Company	Insert Contact							Not Yet Started			0%
1.3.2	Utility Company	Insert Contact							Not Yet Started			0%
1.3.2	Utility Company	Insert Contact							Not Yet Started			0%
1.4	Contractor RFP	Insert Contact							Not Yet Started			0%
1.4.1	Contractor & Contracts Finalized	Insert Contact							Not Yet Started			0%
1.6	Construction	Insert Contact							Not Yet Started			0%
Met with CGW Will include COW in ROW Plans Sent Contract Template WSP Revising Scope Willing to send out surveys to set control points at risk before the contract is finalized.												
Project Update												
		Joe Green								9/24/21		

Transportation 2020+ Sidewalk Projects

PROJECT TITLE

Transportation 2020+

PROJECT MANAGER

Clarksville Street Department

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (Millions)	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
1	Tiny Town Road / 16 Foot Multi-Use Path (#22301)											
		Jody Vance (Gresham Smith)		3/12/18	3/15/18	CMAQ	\$0.549	\$0.000	In Progress	3/12/18		20%
1.1	Preliminary Design & Engineering	Insert Contact		3/15/18	3/16/18				Not Yet Started	3/13/18		10%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/21/18				Not Yet Started	3/14/18		10%
1.2	Right of Way Acquisition	Insert Contact		3/16/18	3/22/18				Not Yet Started	3/15/18		10%
1.3	Utilities	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/16/18		10%
1.3.1	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/17/18		10%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/18/18		10%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/19/18		10%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/20/18		10%
1.6	Construction	Insert Contact		3/23/18	3/23/18				Not Yet Started	3/21/18		10%

Contract negotiations underway with Gresham Smith to provide engineering services to develop design and construction drawing for the construction of a multi-use path along Tiny Town Road

Project Update

Chris Cowen

3/22/18

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (Millions)	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
2 Greenwood Ave / Edmondson Ferry Sidewalks (#22303)												
		Jimmy Bagwell (Moore Design Services)		3/12/18	3/15/18	HUD	\$0.150	\$0.000	In Progress	3/12/18		0%
1.1	Preliminary Design & Engineering											
1.1.1	Finalized Design	Insert Contact		3/15/18	3/15/18				Not Yet Started	3/13/18		0%
1.2	Right of Way Acquisition	Insert Contact		3/15/18	3/21/18				Not Yet Started	3/14/18		0%
1.3	Utilities	Insert Contact		3/16/18	3/22/18				Not Yet Started	3/15/18		0%
1.3.1	Utility Company	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/16/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/17/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/18/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/19/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/20/18		0%
1.6	Construction	Insert Contact		3/23/18	3/23/18				Not Yet Started	3/21/18		0%
Currently in negotiations with Moore Design to provide engineering services to develop design and construction drawings for the construction of new sidewalks.												
Project Update												
		Chris Cowan								3/22/18		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (Millions)	EXPENDITURES TO DATE (Millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
3 Jordan Road Sidewalk / 5 Feet Sidewalks (#22302)												
		Jimmy Bagwell (Moore Design Services)		3/12/18	3/15/18	TAP	\$0.475	\$0.000	In Progress	3/12/18		0%
1.1	Preliminary Design & Engineering											
1.1.1	Finalized Design	Insert Contact		3/15/18	3/15/18				Not Yet Started	3/13/18		0%
1.2	Right of Way Acquisition	Insert Contact		3/15/18	3/21/18				Not Yet Started	3/14/18		0%
1.3	Utilities	Insert Contact		3/16/18	3/22/18				Not Yet Started	3/15/18		0%
1.3.1	Utility Company	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/16/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/17/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/18/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/19/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/20/18		0%
1.6	Construction	Insert Contact		3/23/18	3/23/18				Not Yet Started	3/21/18		0%
Currently in negotiations with Moore Design to provide engineering services to develop design and construction drawings for the construction of new sidewalks.												
Project Update												
		Chris Cowan								3/22/18		

WBS NUMBER	TASK TITLE	TASK OWNER	CONSULTANT/ CONTRACTOR	START DATE	DUE DATE	FUNDING	FUNDED (millions)	EXPENDITURES TO DATE (millions)	STATUS	DATE OF STATUS UPDATE	STATUS COMMENTS	PCT OF TASK COMPLETE
4	North Sanveney Circle / Barkers Mill School Sidewalks (#22304)											
			Jimmy Bagwell (Moore Design Services)			TAP	\$0.065	\$0.000				
1.1	Preliminary Design & Engineering			3/12/18	3/15/18				In Progress	3/12/18		0%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/16/18				Not Yet Started	3/13/18		0%
1.2	Right of Way Acquisition	Insert Contact		3/15/18	3/21/18				Not Yet Started	3/14/18		0%
1.3	Utilities	Insert Contact		3/16/18	3/22/18				Not Yet Started	3/15/18		0%
1.3.1	Utility Company	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/16/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/17/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/18/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/19/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/20/18		0%
1.6	Construction	Insert Contact		3/23/18	3/23/18				Not Yet Started	3/21/18		0%
Project Update	Currently in negotiations with Moore Design to provide engineering services to develop design and construction drawings for the construction of new sidewalks.											
		Chris Cowan								3/22/18		
5	Highway 48 / I-3 Sidewalk / Crosswalks (#22308)											
						Local	\$0.625	\$0.000				
1.1	Preliminary Design & Engineering	Insert Contact		3/12/18	3/15/18				In Progress	3/12/18		0%
1.1.1	Finalized Design	Insert Contact		3/15/18	3/16/18				Not Yet Started	3/13/18		0%
1.2	Right of Way Acquisition	Insert Contact		3/15/18	3/21/18				Not Yet Started	3/14/18		0%
1.3	Utilities	Insert Contact		3/16/18	3/22/18				Not Yet Started	3/15/18		0%
1.3.1	Utility Company	Insert Contact		3/17/18	3/23/18				Not Yet Started	3/16/18		0%
1.3.2	Utility Company	Insert Contact		3/18/18	3/24/18				Not Yet Started	3/17/18		0%
1.3.2	Utility Company	Insert Contact		3/19/18	3/25/18				Not Yet Started	3/18/18		0%
1.4	Contractor RFP	Insert Contact		3/18/18	3/22/18				Not Yet Started	3/19/18		0%
1.4.1	Contractor & Contracts Finalized	Insert Contact		3/19/18	3/22/18				Not Yet Started	3/20/18		0%
1.6	Construction	Insert Contact		3/23/18	3/23/18				Not Yet Started	3/21/18		0%

City of Clarksville Storm Water Management Manual

Revision History

Date	Sections Revised
August, 2000	Manual adopted by reference by Ordinance 3-2000-01
September, 2000	First Edition of Manual issued
October 2000	Appendix B
January 2001	Appendix I
January 2001	Appendix F
October 2004	Added Storm Water Quality
	Revised majority of manual
	Added Appendices through M
June 2005 June 2014	Added Stormwater Quality Site Design Credits
	Added 2000 Chapter 6 back into 2004 Chapter 7
	Chapter 7 Regression Equations, IDF Relationships Revised Appendix F
	Permeable Pavements Chapter 9, Appendix C
	Water Quality Buffers Chapter 5, Chapter 10
	Revised Appendix A. added definition
	Revised Appendix F
<u>Sept 2021</u>	<u>Chapter 5 Water Quality Buffer Requirements</u>
	<u>Appendix C</u>

Chapter 5

WATER QUALITY BUFFER REQUIREMENTS

5.1 Applicability

Water quality buffer requirements apply to all new land development containing streams or other water bodies such as ponds, lakes and wetlands, and subject to regulation under the City of Clarksville's Storm Water Management Ordinance. Water quality buffers must be protected, maintained and established. Buffers shall remain undisturbed for the length of the water feature. These requirements are in addition to, and do not replace or supersede, any other applicable buffer requirements established by the State.

Water quality buffers that are disturbed shall be re-vegetated as outlined in Chapter 10 of this manual. Water quality buffers shall be established as noted below and planted as outlined in Chapter 10.

The Clarksville Street Department will maintain a map identifying water features that must be buffered. These features will be added to or removed from this map as encountered in the field and investigated and/or as TDEC or COE designates. The City's designation map may not accurately capture TDEC or COE regulated streams or wetlands. Developers are responsible for complying with TDEC and COE permits related to streams and wetlands.

Buffer Widths and Zone

Buffer widths have been established separately for streams and other water bodies. Zones and/or buffer composition differ for streams and other water bodies. Buffer zone requirements only apply to new development areas.

The water quality buffer is for preserving the undisturbed vegetation that is native to the streamside habitat in the area of the project. Water quality buffers protect water bodies by providing canopy cover, structural integrity, evapotranspiration, filtration and stormwater infiltration. Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than one (1) square mile will require buffer widths of thirty (30) feet minimum. Streams or other waters with drainage areas greater than one (1) square mile will require buffer widths of sixty (60) feet minimum. The sixty (60) feet criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than thirty (30) feet at any measured location. The MS4 must develop and apply criteria for determining the circumstances under which these averages will be available.

5.2.1 Streams Buffer Zone Requirements

New land disturbing activities along, adjacent to, or near ~~streams~~ **water bodies** shall establish, protect, and maintain a perpetual water quality buffer as described in Chapter 10. The buffer shall be measured horizontally from the top of bank. Top of bank shall mean the highest elevation of land which confines to their channel. ~~waters flowing in a stream.~~

~~Stream b-~~**Buffers** shall have two zones as follows:

~~Zone 1(Construction) will begin at the top of bank and extend horizontally and perpendicular to the stream for an average of 30 feet but no less than 15 feet, unless the stream is impaired or an~~
~~Exceptional Tennessee Waters the buffer should be 60 feet average with a minimum of 30 feet.~~
applies to all streams adjacent to construction sites, with an exception for streams designated as unavailable parameters (formally known as impaired) or Exceptional Tennessee waters, as designated by the Tennessee Department of Environment and Conservation. A 30-foot natural riparian buffer zone adjacent to all streams at the construction site shall be preserved, to the maximum extent practicable, during construction activities at the site. The water quality buffer zone is required to protect waters of the state located within or immediately adjacent to the boundaries of the project, as identified using methodology from Standard Operating Procedures for Hydrologic Determinations (see rules to implement a certification program for Qualified

Hydrologic Professionals, TN Rules Chapter 0400-40- 17). Buffer zones are not primary sediment control measures and should not be relied on as such. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. The buffer zone requirement only applies to new construction sites. The riparian buffer zone should be preserved between the top of stream bank and the disturbed construction area. The thirty (30) feet criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than (fifteen) 15 feet at any measured location.

For discharges into unavailable parameters (formally known as impaired) or high-quality waters the buffer zone requirements change. A sixty (60) foot natural riparian buffer zone adjacent to the receiving stream designated as unavailable parameters (formally known as impaired) or high-quality waters shall be preserved, to the maximum extent practicable, during construction activities at the site. The water quality buffer zone is required to protect waters of the state (e.g., perennial and intermittent streams, rivers, lakes, wetlands) located within or immediately adjacent to the boundaries of the project. Buffer zones are not sediment control measures and should not be relied upon as primary sediment control measures. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. The buffer zone requirement only applies to new construction sites. The riparian buffer zone should be established between the top of stream bank and the disturbed construction area. The 60-foot criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than 30 feet at any measured location. It will consist of trees and deep-rooted vegetation and shall remain undisturbed except for uses provided in Section 5.5.

Zone 2 (Post-Construction) ~~Streams or other waters with drainage areas less than 1-square mile will require buffer widths of 30 feet minimum. Streams or other waters with drainage areas greater than 1 square mile will require buffer widths of 60 feet minimum. The 60 feet criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than 30 feet at any measured location. Grading and re-vegetating in Zone 2 is allowed provided that the health of Zone 1 is not compromised. new development and~~

significant redevelopment sites are required to preserve water quality buffers along waters within the MS4. Buffers shall be clearly marked on site development plans, Grading Permit applications, and/or concept plans. Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than 1 square mile will require buffer widths of 30 feet minimum. Streams or other waters with drainage areas greater than 1 square mile will require buffer widths of 60 feet minimum. The 60-foot criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than 30 feet at any measured location. Other allowable activities and uses are provided in Section 5.5.

5.2.2 Ponds, Lakes, Other Water Bodies

All land development activity subject to this ordinance shall establish and maintain a 30-foot grass buffer as described in Chapter 10 along all ponds, lakes, wetlands, and other water bodies. Where manmade ponds interrupt streams, Zone 1 of the stream buffer can stop at the pond and resume on other sections of the stream.

5.2.3 Wetlands

All land development activity subject to this ordinance shall establish and maintain a 30-foot wide water quality buffer as described in Chapter 10 adjacent to all wetlands. The buffer width shall be measured around the outer edge of the identified wetland. For those wetlands where the designation or extent of the wetland is in dispute, the City will rely on wetland designation by the COE or TDEC.

5.3 Exemptions

Land disturbing activities that are exempt from obtaining grading permits are also exempt from applying the requirements of this chapter.

5.4 Protection of Water Quality Buffers

Water quality buffers must be protected from disturbance during construction activities and maintained perpetually. Provisions must be taken to ensure that buffers are not disturbed during

construction. Section 5.5 outlines allowable buffer disturbances. Any other disturbances are prohibited. Prohibited buffer disturbances must be mitigated with buffer restoration. Chapter 10 details buffer restoration plans.

5.4.1 During Construction

During construction activities, water quality buffers must be protected. Temporary fencing or other suitable alternative must be placed at the outer edge of the buffer to prevent inadvertent disturbance. The method of buffer protection must be detailed in the storm water quality plan.

5.4.2 Long Term

Water quality buffers must be protected and maintained perpetually. Permanent signs must be posted at 200-foot intervals or at every other lot line for residential developments along the outer edge of the water quality buffer. Buffer signage can be obtained from the City of Clarksville, Street Department. Contact the Clarksville Storm Water Program for more information at 931-645-7464.

5.5 Allowable Activities within a Water Quality Buffer

The City considers the activities listed in Table 5.1 as allowable buffer impacts. All other activities that impact the buffer shall proceed through a variance process.

Allowable Activities	Stream Buffers	Wetland Buffers	Pond Buffers
<i>Recreation</i>			
- Greenways and trails	Zone 1: Hardened surfaces are not allowable Zone 2: Hardened surfaces are allowable. Width not to exceed 5'.	Allowable. Width not to exceed 5'.	Allowable. Width not to exceed 5'.
- Wildlife and fisheries management	Wildlife and fishing approved by TDEC and/or U.S. Fish and Wildlife.		
<i>Water dependent structures</i> (boat docks, piers, marinas)	Allowable. Minimize disturbance and stabilize disturbed areas.		
<i>Drive way crossings</i>	Less than 3600 square feet of buffer impact is allowable (based upon 30 foot wide disturbance) perpendicular to stream.	Allowable	Allowable
<i>Road crossings</i>	2 crossings per 1000 linear feet of stream is allowable. Crossings shall be perpendicular to the stream.	Allowable	Allowable
<i>Underground utility lines</i>	Zone 1: Not allowable	Allowable	Allowable
	Zone 2: Allowable		
	Stream crossings shall be perpendicular to flow and shall impact no more than a 30' width perpendicular to flow.		
<i>Overhead utility lines</i>	Allowable	Allowable	Allowable
	Stream crossings shall be perpendicular to flow and shall impact no more than a 30' width perpendicular to flow.		

5.6 Buffer Ownership and Maintenance

For private properties and subdivisions, buffers shall be located inside of individual lots or located within easements in common areas. Maintenance of the buffer shall remain with the property owner or with a homeowner's association. Maintenance responsibilities shall be clearly indicated on plans submitted to the Street Department.

Maintenance shall be limited to removing dead or diseased plant material, repairing erosion problems internal to the buffer, clean up after a storm, or removal of invasive plants. Woody vegetation shall be removed by hand. Vegetative root systems shall be left intact to maintain the integrity of soil. Stumps shall remain where trees are cut.

STORM WATER MAINTENANCE AGREEMENT

Grading Permit No.: _____

Tax Map and Parcel No.: _____

Project Name: _____

THIS AGREEMENT, made and entered into this _____ day of _____, of the year _____, by and between _____ (hereinafter called the "Landowner") and the City of Clarksville, Tennessee (hereinafter called the "City"):

WITNESSETH, that

WHEREAS, Ordinance No. 3-2000-01 was adopted August 3, 2000 by the Clarksville City Council, and established maintenance responsibilities for storm water drainage systems; and

WHEREAS, under said ordinance the Director of Streets shall have the authority to inspect private drainage systems within the City, and to order such corrective actions to said private storm water drainage systems as are necessary to maintain properly the drainage systems within the City; and

WHEREAS, under said ordinance it is provided that private storm water drainage systems must be maintained by the property owner, and a maintenance agreement must be executed before the development plan is approved; and

WHEREAS, the Landowner is the owner of certain real property, more particularly described as

as recorded by deed in the land records of Montgomery County, Tennessee in Deed Book _____ at Page _____ (hereinafter called the "Property"); and

WHEREAS, the Landowner is proceeding to build on and develop the property; and

WHEREAS, Site Plan/Subdivision Plan _____, prepared by _____ dated _____, on file at the Street Department (hereinafter called the "Plan"), which is expressly made a part hereof, as approved or to be approved by the Street Department, provides for the construction of storm water drainage systems; and

WHEREAS, the City and the Landowner agree that the health, safety, and general welfare of the residents of Clarksville require that storm water drainage systems be constructed and maintained on the property; and

WHEREAS, the City requires that storm water drainage systems as shown on Plan_____ be constructed and adequately maintained by the Landowner;

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The storm water drainage systems shall be constructed by the Landowner in accordance with the plans and specifications identified in Plan_____.
2. The Landowner shall maintain the storm water drainage systems as shown on Plan_____ in good working order acceptable to the Street Department.
3. In the event the Landowner fails to maintain storm water detention facilities as shown on Plan_____ in good working order acceptable to the Street Department, the Street Department may enter the property and take whatever steps it deems necessary to maintain said storm water drainage systems. It is expressly understood and agreed that the Street Department is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the City of Clarksville.
4. In the event the City of Clarksville, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, or materials, the Landowner shall reimburse the City upon demand, within a time frame specified by the City for all costs incurred, including reasonable attorney's fees in the event that an action to collect such costs must be instituted.
5. It is the intent of this Agreement to insure the proper maintenance of storm water drainage systems by the Landowner; provided, however, that this Agreement shall not be deemed to create or effect any additional liability of any party for damage alleged to result from or be caused by storm water management.
6. The Landowner, its executors, administrators, assigns, and any other successors in interest, shall indemnify and hold the City and its agents and employees harmless for any and all damages, accidents, casualties, occurrences, or claims which might arise or be asserted against the City from the construction, presence, existence, or maintenance of the storm water drainage systems by the Landowner or the City.

In the event a claim is asserted against the City, its agents, or employees, the City shall notify the Landowner and the Landowner shall defend at his own expense any suit based on such claim. If any judgment or claims against the City, its agents, or employees shall be allowed, the Landowner shall pay all costs and expenses in connection therewith.

7. This Agreement shall be recorded among the land records of Montgomery County, Tennessee, and shall constitute a covenant running with the land, and shall be binding on the Landowner, its administrators, executors, assigns, heirs, and any other successors in interest.

WITNESS the following signatures and seals:

THE CITY OF CLARKSVILLE, TENNESSEE

By _____
Director of Streets

By _____
Landowner

ATTEST:

Prepared by: _____

Landowner

I, _____, a Notary Public in and for the County and State
aforesaid, whose commission expires on the _____ day of _____, of the year
_____, do certify that _____
whose names are signed to the foregoing Agreement bearing date of the _____ day of
_____, of the year _____, have acknowledged the same before me in my said County
and State aforesaid.

GIVEN under my hand this _____ day of _____, of the year _____.

Notary Public

Director of Street

I, _____, a Notary Public in and for the County and State
aforesaid, whose commission expires on the _____ day of _____, of the year
_____, do certify that _____
whose names are signed to the foregoing Agreement bearing date of the _____ day of
_____, of the year _____, have acknowledged the same before me in my said County
and State aforesaid.

GIVEN under my hand this _____ day of _____, of the year _____.

Notary Public

Policies and Procedures Manual

ILLICIT DISCHARGE DETECTION AND ELIMINATION

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Much of the information in this manual is drawn from guidance given in the Center for Watershed Protection's October 2004 publication, "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments," which is available online at: www.cwpp.org. Unless otherwise noted, the source for all figures is the Center's manual.

3 The Elements of Clarksville's IDDE Program

Clarksville's Phase II permit NOI included the following program elements or BMPs related to the IDDE program:

- *Storm drain system mapping, indicating the locations of all outfalls and waters of the state.* The term "outfall" was defined by TDEC as those pipes or ditches that discharge directly into streams. Clarksville's storm drain system inventory and outfall map is located on the City's GIS. This map will be updated with new information as site inspections are performed or as new development plans are submitted to the City.
- *Regulatory ability to prohibit illicit discharges.* The City's storm water ordinance contains the regulatory authority to perform inspections on private property to identify potential illicit discharges or their sources, to require that the discharges "cease and desist", and measures that can be taken to ensure compliance with these requirements. The storm water ordinance can be found in Appendix E of this manual.
- *Complaint investigation time frame. Once the City gets a complaint it must not exceed 7 days to start its investigation of the initial date.*
- *Routine system screening.* The City is required to visual screen the storm water system based upon priority area mapping. Priority areas are defined as those areas that have a higher potential for illicit discharges, such as older industrial and commercial areas, areas with known illicit discharges, and sanitary sewer areas with known inflow and infiltration problems.
- *Policies and procedures for inspecting, identifying, and removing illicit discharges.* This manual has been developed to provide detailed procedures for City staff in performing visual screening, illicit discharge detection, and elimination of those discharges.
- *Training.* Once these program elements have been developed and implemented, a number of different people must be trained, including City staff performing IDDE inspections, City staff performing other types of inspections (so they can identify potential problems), the general public, and businesses likely to generate illicit discharges.

ORDINANCE 27-2021-2022

AN ORDINANCE AUTHORIZING THE MAYOR OR HIS DESIGNEE TO GRANT A UTILITY AND INGRESS AND EGRESS EASEMENT TO BELLSOUTH TELECOMMUNICATIONS, LLC D/B/A AT&T TENNESSEE.

WHEREAS, the Clarksville City Council finds that improvements to the intersection of Whitfield Road and Needmore Road are a vital component to the proper function of the City transportation system and enhance the quality of life for City residents; and

WHEREAS, the City of Clarksville, by deed of record in Official Record Book Volume 793, Page 770, Register's Office for Montgomery County, Tennessee owns certain real property located adjacent to Whitfield Road and Needmore Road, being Map & Parcel Number 63-12.00, and

WHEREAS, Bellsouth Telecommunications, LLC, d/b/a AT&T Tennessee (hereinafter, "AT&T") has a utility easement for telecommunication and fiber junction boxes on the northeastern corner of the above described property which was previously granted to it by the City of Clarksville; and

WHEREAS, the City of Clarksville Street Department requires AT&T to move its telecommunication and fiber junction boxes to the southeastern corner of the above described property to allow the City to improve Needmore Road and Whitfield Road as depicted on Exhibit A, attached hereto; and

WHEREAS, the Clarksville City Council in its improvement of the City transportation system at the intersection of Whitfield Road and Needmore Road finds it to be in the public interest to grant AT&T an easement described in Exhibit B to allow it to relocate its telecommunication equipment to the southeastern corner of the City property so that AT&T may continue to provide service and enhance the quality of life for City residents and the City street improvement project may continue to progress to completion.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CLARKSVILLE, TENNESSEE:

That the Clarksville City Council hereby authorizes the grant of an easement to Bellsouth Telecommunications, LLC, d/b/a AT&T Tennessee for the telecommunication and fiber junction utility boxes with ingress and egress access thereto along the southeastern corner of the above described property to allow the City to widen and improve Needmore Road and Whitfield Road as shown in Exhibit A and, further, that any and all necessary forms required to effectuate said easement and transfer be executed by the Mayor after approval of the City Attorney.

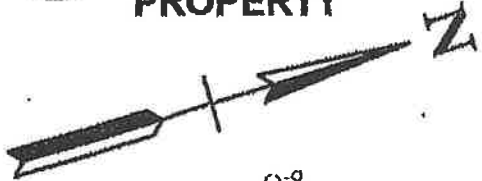
FIRST READING:

SECOND READING:

EFFECTIVE DATE:

60

CITY OF CLARKSVILLE
PROPERTY



SHED

CELL
TOWER

N71°54'25"W
26.27

N6°04'09"E
51.07

S71°54'25"E
12.52

N71°42'18"W
40.06

N71°42'18"W
50.00

S18°17'42"W
50.00

N18°32'09"E
50.00

S71°42'18"E
50.00

S72°05'52"E
20.43

TEMP. CONST. ESM'T.

NEEDMORE RD.

297

298

CLARKSVILLE MONTGOMERY
COUNTY SCHOOL SYSTEM

53

F&F
PARTNERS

61

SPOIL PILE

SPOIL PILE

TEMP. CONST. ESM'T.

WHITFIELD ROAD

	INGRESS / EGRESS ESM'T. REQ'D. 0.057 Ac. (2496 S.F.)
	TELE. ESM'T. REQ'D. 0.057 Ac. (2500 S.F.)
	UTIL. ESM'T. REQ'D.



120 Brentwood Commons Way, Suite 525
Brentwood, Tennessee 37027
629.228.7500 www.hdrinc.com

SCALE:



DATE: Nov. 2020

OWNER:

STREET DEPARTMENT - CLARKSVILLE, TENN.

PROJECT:

WHITFIELD ROAD (Tracy Lane to Glenn Ellen Way)
and NEEDMORE ROAD (Cornerstone Circle to Ann Drive)

DRAWING:

CITY OF CLARKSVILLE

EXHIBIT

53

A

**Property Description of a portion of
City of Clarksville Property
Permanent Utility Easement**

Being a Tract of land situated west of Whitfield Road, and south of Needmore Road, said Tract being more particularly described as follows:

Beginning at a point west of the intersection of Whitfield Road and Needmore Road, said point being 0.045 mile, more or less as measured along the centerline of Needmore Road, and being located 65.5 feet right of Needmore Road at Station 297+60, on the south side of the designated 20' permanent utility easement; thence S 71°42'18" E, along said easement for a distance of 50.00 feet to a point; thence S 18°17'42" W for a distance of 50.00 feet; thence N 71°42'18" W for a distance of 50.00 feet to a point; thence N 18°17'42" E for a distance of 50.00 feet to the POINT OF BEGINNING.

Said Tract contains 0.057 acres (2500.00 sq. ft.) more or less.

It is understood between the parties hereto and made a covenant herein that the above described property grants a permanent utility easement for telecommunications.

Property description is based on a physical survey by Billy Ray Suiter, PLS 1837, on November 2020.

EXHIBIT

B

Montgomery County
Parcel 60

**Property Description of a portion of
City of Clarksville Property
Permanent Ingress / Egress Easement**

Being a Tract of land situated west of Whitfield Road, and south of Needmore Road, said Tract being more particularly described as follows:

Beginning at a point west of the intersection of Whitfield Road and Needmore Road, said point being 0.045 mile, more or less as measured along the centerline of Needmore Road, and being located 65.5 feet right of Needmore Road at Station 297+60, on the south side of the designated 20' permanent utility easement; thence S 18°17'42" W for a distance of 30.00 feet; thence N 71°42'18" W for a distance of 40.06 feet to a point; thence N 71°54'25" W for a distance of 26.27 feet; thence N 6°04'09" E for a distance of 51.07 feet to a point on the southern right of way of Needmore Road; thence S 72°05'52" E, along said right of way for a distance of 20.43 feet; thence S 6°04'09" W for a distance of 20.44 feet to a point on the designated utility easement; thence S 71°54'25" E, along said easement for a distance of 12.32 feet; thence S 71°42'18" E, continuing along said easement for a distance of 40.06 feet to the POINT OF BEGINNING.

Said Tract contains 0.057 acres (2496 sq. ft.) more or less.

It is understood between the parties hereto and made a covenant herein that the above described property grants a permanent ingress / egress easement for telecommunications and utilities.

Property description is based on a physical survey by Billy Ray Suiter, PLS 1837, on November 2020.