City of Winston-Salem
University
Department of Transportation
“Enhancing Mobility, Improving the Journey.”
Mission Statement

• The Transportation Department has a focus on moving people and goods safely and efficiently on the surface transportation system in Winston-Salem and Forsyth County. We aspire to plan, design, construct, operate and maintain our system so that congestion, delay and traffic accidents are minimized while transportation choices and emergency services are maximized.
City of Winston-Salem University

Department Org Chart
TRANSPORTATION (7 of 7) - TRAFFIC MAINTENANCE MARKINGS

Assistant Traffic Maintenance Supervisor - Markings 002595

Sign Crews (4)
- Crew Leader 003054
- Crew Leader 003306
- Crew Leader 003488
- Traffic Maintenance Worker 1263
- Traffic Maintenance Worker 1265
- Traffic Maintenance Worker 002738
- Traffic Maintenance Worker 003487

Marking Crews (2)
- Traffic Maintenance Coordinator 1260
  - Crew Leader 001267
  - Traffic Maintenance Worker 001266
  - Traffic Maintenance Worker 003773
  - Crew Leader 001264
  - Temps
Department Budget
$34,277,970

- Transportation Admin, 15.81%
- Transp Planning, 8.24%
- Street Parking, 1.05%
- Traffic Maintenance, 7.73%
- Off Street Parking, 4.30%
- WSTA, 62.86%
City of Winston-Salem University

Traffic Safety
Traffic Calming
Traffic Operations
Winston-Salem’s “Low Cost” approach to Safety

- Combine safety concerns with everyday Traffic Engineering.
- Use available tools - Signs, Signals & Pavement Markings.
- Instead of Priority Lists ... examine each location for a “Pattern of Crashes” to find a remedy.
Traffic Calming Policy

http://www.cityofws.org/departments/transportation/safety/traffic-calming-policy
Traffic Operations

- Traffic Engineering
  - Signal Warrant Studies
  - Speed Studies
  - Delay Studies
  - Origin & Destination Studies
  - Sight Distance Studies

- Traffic Signal Systems
Traffic Signal System

Office located at Union Station
Traffic Signal System

- Computerized system manages the operation of the Traffic Signal Network
  - 398 Signalized Intersections
  - 150 miles of Fiber Optic Communication Cable
  - Downtown operates on a 4.9 GHz wireless system
  - Monitors traffic to identify accidents or congestion
  - 33 city owned traffic surveillance cameras
  - Access to NCDOT cameras in the Piedmont Triad Area
Traffic Signal System

- Handle Citizen calls concerning Traffic Signal Timing or Malfunction
- Evaluates Timing Patterns for Major Corridors
How Traffic Signals Work

- **Pre-Timed**: Signal Controller Operates on Fixed Times
- **Actuated**: Vehicles are Detected & Calls Go to Controller
  - Inductive Loops
  - Above Pavement Detection
- **Semi-Actuated**: Combination of Pre-Timed & Actuated
City of Winston-Salem University

Parking Operations
Street Lighting
& Vehicle for Hire
Parking Operations

Parking Downtown

- City Operates 2 Decks
  - 6th Cherry Trade
  - 4th & Church

- City Operates 3 Surface Lots
Parking Operations

- On-Street Parking Enforcement
  - 3 Enforcement Officers
  - Primarily Downtown
  - Fines from $15 to $250
  - 11,205 Tickets Issued in ‘18–’19
Street Lighting

- Installation of New and Maintenance of Existing Streetlights
  - Designed & Authorized By the City
  - Installed by Duke Energy and in some cases Developers
  - Duke Energy Maintains their lights, city maintains privately owned lights in R/W
Street Lighting

- 32,921 Leased Street Lights from Duke Power
- 1,100 City Owned Decorative Street Lights
- $257,000 Current Monthly Electric Bill
- $3,425,180 Current Street Lighting Budget
Street Lighting

Nema Head
Street Lighting

Cobra Head
Street Lighting

Decorative
Vehicle for Hire

- Inspection
  - Cleanliness
  - Fare Calculation
  - Insurance
  - Passenger Comfort
Vehicle for Hire

- Taxi Cabs
  - 8 Companies Authorized to Operate 129 Vehicles
- Limousines
  - 26 Companies Authorized to Operate 171 Vehicles
- Horse-Drawn Carriages
  - 2 Companies Authorized to Operate 8 Carriages
- Golf Carts
  - 1 Company Authorized to Operate 1 Cart
- Trolley Pub companies
  - 2 Company Authorized to Operate 2 Trolley Pubs
Traffic Maintenance

Construction and Maintenance of

- Traffic Signals
- Traffic Signs
- Traffic Markings
Traffic Signal Construction & Maintenance

- Control Cabinet
- Poles
- Signal Heads
- Wiring Loops
- Bulb Changeouts
- Pedestrian Signals
Traffic Signs

- **Regulatory**
  - Stop
  - Yield
  - Speed Limit

- **Warning**
  - Curve
  - Island Keep Right

- **Guide**
  - Street Markers
  - Parking
Traffic Markings

- Lines
- Symbols / Words
- Raised Pavement Markers
Traffic Control Devices

- Temporary
  - Flaggers
  - Signs
  - Barricades
  - Drums
  - Cones
Traffic Control Devices

- Permanent
  - Signs
  - Concrete Islands
  - Tubular Markers
City of Winston-Salem University

WSTA & Trans-Aid
Winston-Salem Transit Authority (WSTA)

- 58 Buses, 32 Fixed Routes (within the city)
- 42 Mini-buses for County wide service to Elderly & Disabled (Trans-AID)

37 Hybrids
21 Diesels

5 Hybrids
35 Diesels
WSTA Bus Service

• Operating Services
  • Monday through Friday: 5:30am to 12:00midnight
  • Saturday: 6:30am to 7:00midnight
  • Sunday: 6:30am to 7:00pm
WSTA Bus Service

- Fixed Route - 2.7 million trips per year
- Trans-AID - 211,000 trips per year
- $18.2 million Operating Expense (FY 17-18)
- $1.5 million Income Generated (FY 17-18)
- Supported by other funding sources
  - Winston-Salem Property Tax Revenues
  - Federal Transit Administration
  - North Carolina Department of Transportation
  - Motor Vehicle Privilege Tax
  - Other City Funds
  - Other Transit Revenues/Advertising
  - Forsyth County
  - Other Grants
WSTA's Mobility Management Department offers a FREE one on one or group training, Try Transit, to teach citizens how to travel safely and comfortably on the fixed route system.

• The training includes:
  • How to Request Bus Information
  • Planning a Trip
  • Reading the Bus Schedule
  • Boarding and Exiting the Bus
  • Transferring from Bus to Bus
  • Etc.

• For more information about the Try Transit training, please contact WSTA’s Mobility Management and Customer Service by email custserv@wstransit.com and 336-727-2000.
WSTA Bus Service

- January 2, 2017 WSTA Fixed Routes changed to
  - 30 Weekday, 15 Night, 16 Saturday, 7 Sunday
- January 2018 WSTA Fixed Routes added 9 more night services, 8 more Saturday services and 9 more Sunday services.
- Total Fixed Routes today include
  - 32 weekday routes
  - 26 with night service routes
  - 16 Sunday service routes
WSTA Bus Passes

The Winston Salem City Council approved the BUS PASS MATCH DISTRIBUTION PROGRAM to provide bus passes to community agencies that serve low income riders. Local non-profit organizations that provide, or are willing to provide free WSTA bus passes to their clients were invited to apply for additional free passes under a Bus Pass Matching Distribution Program. For every pass that an agency buys for its clients, the city will provide a matching pass. City Council allocated $90,000 for the program, which will be used for: 10-ride or single ride bus passes on WSTA’s fixed routes, or 30-ride or single ride Trans-Aid passes.
New For WSTA

- The transit route maps and the WSTA system map have been modernized for easier readability and to promote landmarks throughout the community. These maps were made available in conjunction with the newly added services, effective January 2018. This information is available on the WSTA website (www.wstransit.com), WSDOT webpage (http://www.cityofws.org/departments/transportation) and copies are at the Clark Campbell Transportation Center.
WSTA Bus Services

- NEXT BUS Service
What is the MPO?

- MPOs carry out the transportation planning process
- MPOs policy board called the Transportation Advisory Committee (TAC)
- The Winston-Salem Department of Transportation is designated as the lead planning agency (LPA)
Metropolitan Transportation Plan

- Minimum 20 year planning period
- Updated every 3-4 years
- Multi-Modal
- Financially constrained
- Federal requirement adopted only by MPO’s but jointly developed with other agencies & approved by the Federal Highway Administration & Federal Transit Administration
Comprehensive Transportation Plan

- Not fiscally restrained
- Adopted mutually between MPO’s & NCDOT
- Project recommendations and problem statements
- Inventory maps - Adoption Sheet, Highway Map, Public Transportation & Rail Map, Bicycle Map, and Pedestrian Map
- Highway table containing information such as road width, right-of-way width, traffic volumes and capacities, and the presence of transit and bicycle facilities
Transportation Funding Sources

- State Transportation Improvement Program (STIP)
- Federal Surface Transportation Block Grant - Direct Attributable (ST-DA), Congestion Mitigation and Air Quality (CMAQ) and Enhancement grants, Transportation Alternative Program (TAP)
- City’s Capital Improvement Program (CIP)
- City Bond Funds
- NCDOT Discretionary Funds
- Section 5303/5307 Transit Planning/Capital Grants
- Developer Participation
Other Transportation Plans & Documents Available

- Air Quality Conformity & Conformity Report
- Collector Street Plan
- Comprehensive Bicycle Master Plan
- Sidewalk and Pedestrian Facilities Plan
- Metropolitan Transportation Improvement Program
- Public Participation Policy
- Public Transportation-Human Services Coordination Plan
- Traffic Count and other maps, plans and project links on the DOT website
Questions