



CHARLESTON AREA REGIONAL TRANSPORTATION AUTHORITY NORTH CHARLESTON REGIONAL INTERMODAL TRANSPORTATION FACILITY

**Liberty Hill Improvement Council
Thursday, August 21, 2014**

**Felix Pinckney Community Center
7:00 p.m. – 8:00 p.m.**





AGENDA

- Project Overview
- Public Meeting Recap
 - Proposed Terminal Building
 - Conceptual Site Plan
- Traffic Study
- Bus Access Test
- Project Schedule
- Questions & Answers





PROJECT OVERVIEW – MAJOR MILESTONES

1996: Feasibility Study/Site Selection

1997-2007: Project refinement, NEPA, land acquisition

2008: Phase I Construction of Infrastructure and P&R Lot



2009: Phase II Architectural Design & Engineering for Terminal Building

2010: State of Good Repair Grant Awarded for Phase II

2012: CSX rejects platform permit without sidetrack; site is no longer cost feasible





PROPOSED INTERMODAL TERMINAL BUILDING

- ❑ Transportation/Transit/Access
 - ✓ Amtrak Station
 - ✓ CARTA Bus Service & Administrative Offices
 - ✓ Southeastern Stages Intercity Bus
- ❑ Economic Development
 - ✓ Leasable Office Space
 - ✓ Restaurant/Retail Space
- ❑ Cost Effective
 - ✓ \$14.5 M (78% Federal Funds)
- ❑ Compatibility
 - ✓ Vibrant public spaces
 - ✓ Community meeting room
 - ✓ Local and public art displays
 - ✓ History of station & community





PROPOSED INTERMODAL TERMINAL BUILDING



**DAVIS
FLOYD**

CARTA NORTH CHARLESTON REGIONAL INTERMODAL TRANSPORTATION FACILITY
RENDERING OF PROPOSED BUILDING



1st Floor

Front Entry

KEY

-  CARTA DISPATCH
150 SF
-  S.E. STAGES
954 SF
-  AMTRAK
1990 SF
-  RESTAURANT/
DINING/FOOD HALL
1875 SF
-  LEASABLE
875 SF



Tracks



2nd Floor

KEY



CARTA
2695 SF



MEETING
ROOM
1485 SF



LEASABLE
2700 SF



Tracks





1ST FLOOR FRONT ENTRANCE STAIRWAY





1ST FLOOR LOOKING TOWARD FRONT DOOR





1ST FLOOR LOOKING TOWARD AMTRAK TICKETING





2ND FLOOR LOOKING TOWARD AMTRAK CONCOURSE



CONCEPTUAL SITE PLAN



NORTH

CARTA



GAYNOR AVENUE AMTRAK STATION- SITE

- ❑ **1,800** vehicles/day on Gaynor Avenue between Amtrak Station & Montague Avenue
- ❑ **193 (11%)** are vehicles with 6+ tires or 3+ axles



Rivers Ave. Restricted
Bridge Height



Gaynor Ave. at Montague Ave.





GAYNOR AVENUE AMTRAK STATION- TRAFFIC STUDY

- Traffic Counts in May 2014
- Peak Hour:
 - AM Peak: 7:00 AM – 9:00 AM
 - PM Peak: 4:00 PM – 6:00 PM
- Peak Hour Assumptions:
 - Office/Leasable/Restaurant: 44 Employees
 - Bus Trips: 13 Buses/Peak Hour (26 Trips)
 - Taxi: 2 Taxi Trips/Peak Hour
- Total Peak Period Activity: 72 Vehicle Trips per Peak Hour



CARTA North Charleston Regional Intermodal Transportation Center Traffic Study

Level of Service
2016 No Build Conditions

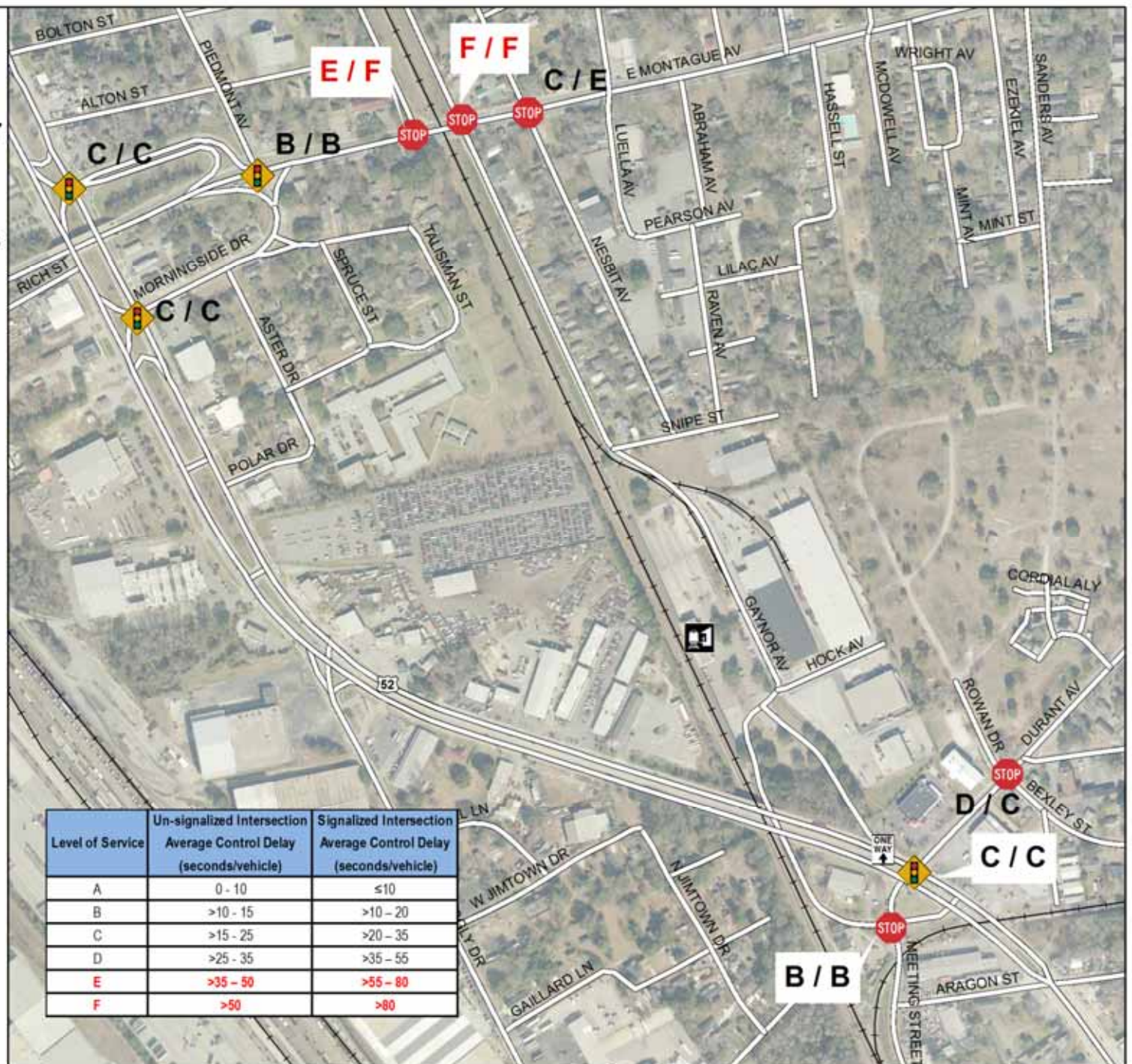
-  Stop Sign
-  Traffic Signal
-  One Way
-  Amtrak Station

Level of Service
(Peak Period)
AM/PM



0 0.075 0.15
Miles

Level of Service	Un-signalized Intersection Average Control Delay (seconds/vehicle)	Signalized Intersection Average Control Delay (seconds/vehicle)
A	0 - 10	≤10
B	>10 - 15	>10 - 20
C	>15 - 25	>20 - 35
D	>25 - 35	>35 - 55
E	>35 - 50	>55 - 80
F	>50	>80



TRAFFIC – VEHICLE CIRCULATION



Short Term Parking:
Right Turn Exit Only

Long Term
Amtrak Station
Parking

Short Term Parking:
Kiss Ride/Taxi Queue
Right Turn Exit Only

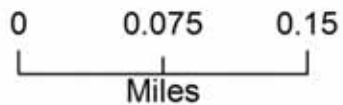
NORTH

CARTA

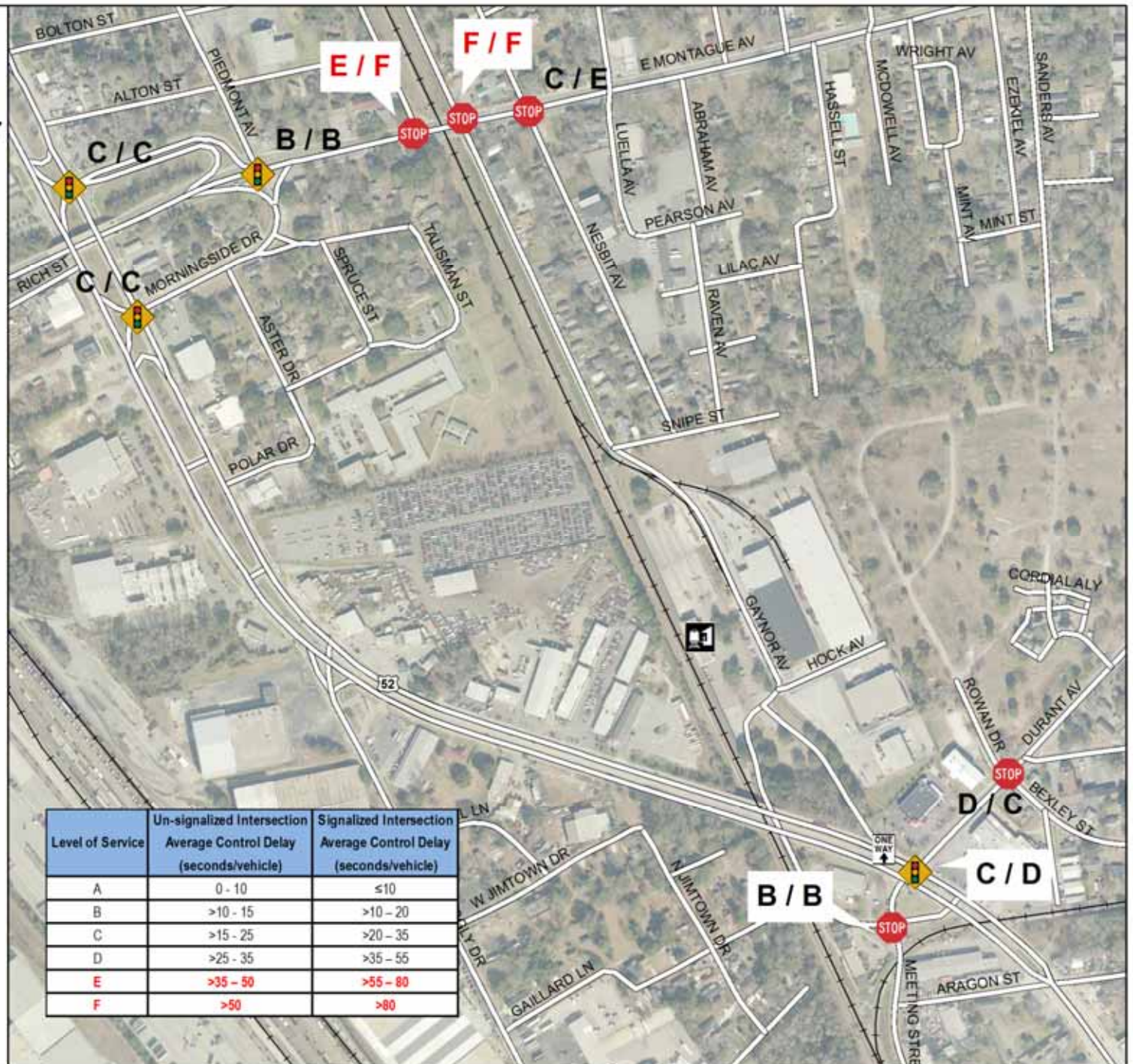
CARTA
North Charleston
Regional Intermodal
Transportation Center
Traffic Study
Level of Service
2016 Build Conditions
Restricted
Outbound Travel

-  Stop Sign
-  Traffic Signal
-  One Way
-  Amtrak Station

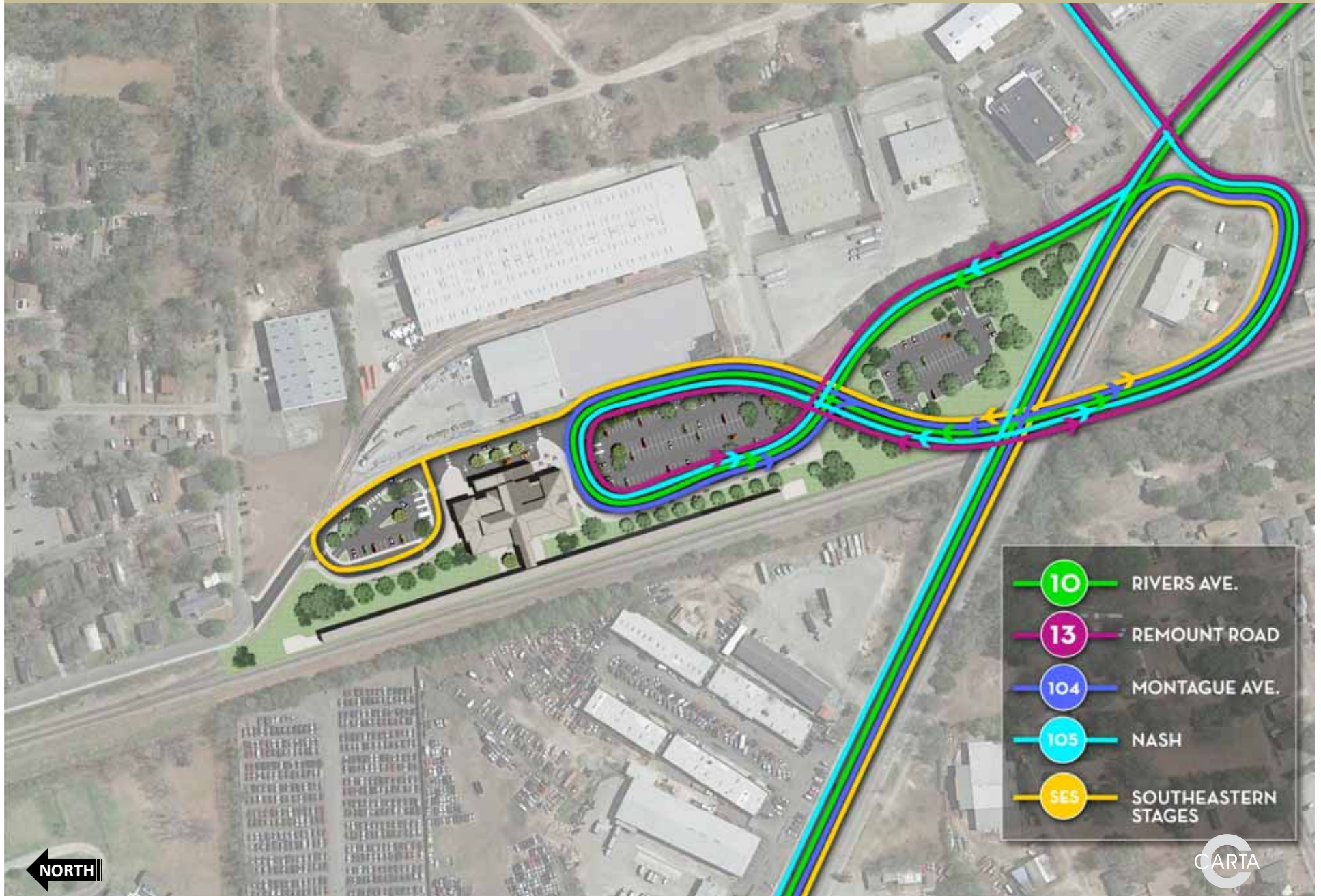
Level of Service
(Peak Period)
AM/PM



Level of Service	Un-signalized Intersection Average Control Delay (seconds/vehicle)	Signalized Intersection Average Control Delay (seconds/vehicle)
A	0 - 10	≤10
B	>10 - 15	>10 - 20
C	>15 - 25	>20 - 35
D	>25 - 35	>35 - 55
E	>35 - 50	>55 - 80
F	>50	>80



TRAFFIC— BUS CIRCULATION





BUS TEST - JULY 29, 2014

3500 Series – Hybrid Buses at 10' 8" (Tallest bus in CARTA Fleet)

1. [Bus Entering from Meeting Via Hock](#)
2. [Bus Leaving Site Via Hock](#)
3. [Bus Traveling Under Bridge](#)
4. [Buses Passing on the Bridge](#)
5. [Left on Meeting to Rivers](#)
6. [Right from Meeting to Hock](#)
7. [Rivers to Gaynor One-Way](#)



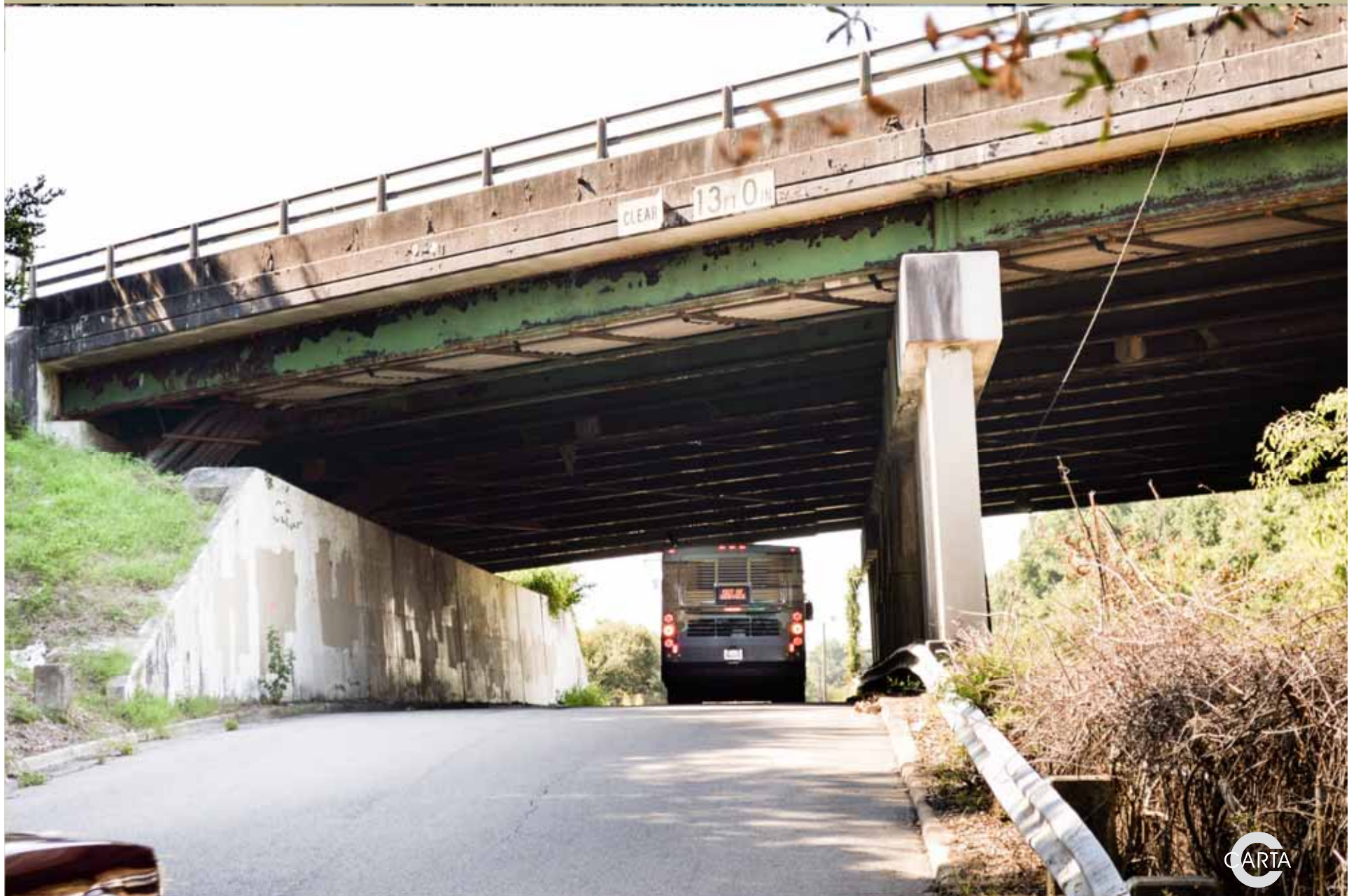
BUS TEST – JULY 29, 2014



BUS TEST – JULY 29, 2014



BUS TEST – JULY 29, 2014



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BUS TEST – JULY 29, 2014



BUS TEST – JULY 29, 2014



BUS TEST – JULY 29, 2014



BUS TEST – JULY 29, 2014





PROJECT SCHEDULE



PUBLIC INVOLVEMENT OPPORTUNITIES

June 2014

- Public Information Meeting

September 2014

- Public Hearing

December 2014

- Public Information Meeting





CHARLESTON AREA REGIONAL TRANSPORTATION AUTHORITY NORTH CHARLESTON REGIONAL INTERMODAL TRANSPORTATION FACILITY

Questions & Answers

www.ridecarta.com/intermodal-facility

Email: cruze@ridecarta.com

