



## **NORTH CAROLINA**

Department of Transportation



# Division STIP Project Delivery

Brian C. Burch, P.E.

Division Project Development Engineer

# It's in the STIP, now what??

## North Carolina Department of Transportation Draft STIP FY 2017 - 2027



January 2017

# Stakeholders Meeting

- Meeting with Local Officials/Staff that serve that serve on TAC or TCC
- BOT Member, Division Engineer, DCE, DPDE, District Engineer and Staff
- MPO/RPO Representatives

## PURPOSE

- Review Funding and Schedule
- Review SPOT 4.0 Project Summary
- Review MTP or CTP for Purpose/Need, Modes, and Cross-Section
- Review Feasibility Study (if available)

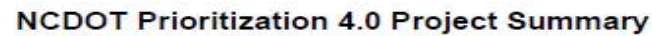
DIVISION 14

## HIGHWAY PROGRAM

TYPE OF WORK / ESTIMATED COST IN THOU

COUNTY	ROUTE/CITY	ID NUMBER	LOCATION / DESCRIPTION	LENGTH	TOTAL PROJ COST (THOU)	PRIOR YEARS COST (THOU)	FUNDS	FY 2017	STATE TRANSPORTATION IMPROVEMENT PROGRAM					
									FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	
RURAL PROJECTS														
HAYWOOD	NC 209	R-4047 TRN	US 23 BUSINESS TO NORTH OF SR 1523 (OLD CLYDE ROAD) AT LAKE JUNALUSKA. WIDEN TO A MULTI-LANE FACILITY AND REPLACE RAILROAD STRUCTURE R-32. (INCLUDES R-2210B).	0.3	36641	36641								
UNDER CONSTRUCTION - INCLUDES R-2210 B														
URBAN PROJECTS														
BUNCOMBE	US 19, US 23	U-6048	SR 1836 (CHESTNUT MOUNTAIN ROAD) TO SR 1200 (WIGGINS ROAD). UPGRADE ROADWAY.	3.9	4535		T						R	135
HAYWOOD							T						U	100
							T							
DIV														
HAYWOOD	US 23 BUSINESS (SOUTH MAIN STREET)	U-4712	SR 1164 (HYATT CREEK ROAD) TO US 276 (PIGEON STREET). WIDEN TO MULTI-LANES.	2.1	44800		T						R	20000
							T						U	2400
							T							
DIV														
HAYWOOD	US 23 BUSINESS	U-5888	INTERSECTION OF US 23 BUSINESS (NORTH MAIN STREET) AND WALNUT STREET. CONSTRUCT INTERSECTION IMPROVEMENTS.		2675	125	T					R	950	
							T					U	350	
							T							C 1250
DIV														
HAYWOOD	US 276 (RUSS AVENUE)	U-5839	US 23/74 TO US 23 BUSINESS (MAIN STREET). UPGRADE CORRIDOR.	1.1	18283	533	T					R	6200	
							T					U	750	
							T							C 10800
DIV														
HAYWOOD	SR 1184 (HOWELL MILL ROAD)	U-4412	US 276 TO US 23 BUSINESS IN WAYNESVILLE. UPGRADE TWO LANES AND CONSTRUCT RAILROAD GRADE SEPARATION.	1.5	24667	24667								
UNDER CONSTRUCTION														
BUNCOMBE	VARIOUS	U-5616	FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION PLANNING (PL) SUPPLEMENT.		2068		STBGDA	PE	150			PE	150	
HAYWOOD							L	PE	38			PE	38	
HENDERSON														
MADISON														
TRANSYLVANIA														
DIV														
BUNCOMBE	VARIOUS	U-5100	STBG-DA IN THE FRENCH BROAD RIVER METROPOLITAN PLANNING ORGANIZATION.		49960		STBGDA					C	6934	
HAYWOOD							L					C	1734	
												C	3670	
												C	3670	
												C	918	
												C	918	





**Status:** Submitted

**Specific Improvement Type:** 1 - Widen Existing Roadway  
**Project Category:** Regional Impact  
**TIP#:** U-4712

Cost to NCDOT: \$44,746,000

SR 1164 (Hyatt Creek Road) to US 276. Widen to Multi-Lanes. Feasibility Study Underway

County(s): HAYWOOD

**MPOS(s)/RPO(s):** French Broad River MPO

Wapiti Dam and Reservoir

Scale: 1:50,000

North Arrow

Source: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, CANAR, Earthstar, GEBCO, Esri, Swisstopo, Mapbox, © 2014

US-23 BUS (South Main Street)

SPOT ID: H090482

**Project Data\*****Existing Conditions**

Existing Cross-Section:	2 Lane Undivided
Speed Limit (mph):	35
Length (miles):	2.09
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width (ft):	11
Paved Shoulder Width (ft):	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	9234.48
Volume (PADT):	10035.45
Peak ADT (PADT) Factor:	1.09
Capacity (vpd):	15800
Volume (PADT)/Capacity Ratio:	0.64
% Autos:	97%
% Trucks:	3%
Truck Volume (AADTT):	254.87
Crash Density (seg):	39.45
Crash Severity (seg):	63.43
Critical Crash Rate (seg):	63.37

**Project Benefits**

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks
Speed Limit (mph):	35
Length (miles):	2.09
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width (ft):	12
DOT Design Paved Shoulder Width (ft):	4
Travel Time Savings for 10 Years (NCSTM) - SW/REG:	644832.52
Travel Time Savings in \$ (NCSTM) - SW/REG:	
Travel Time Savings for 10 Years (CALC) - DIV:	
Travel Time Savings in \$ (CALC) - DIV:	
Safety Benefits in \$:	
Long-Term Employment:	0
% Change in Economy:	0
Nearest Freight Terminal:	South Carolina Inland Port
Distance to Freight Terminal (miles):	0
Nearest Multimodal Passenger Terminal:	Asheville Regional Transit Station
Distance to Multimodal Terminal (miles):	0
Does project upgrade how the roadway	No

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## FEASIBILITY STUDY

**US 23 BUSINESS  
US 23 / 74 TO US 276 (PIGEON STREET) IN WAYNESVILLE  
HAYWOOD COUNTY  
DIVISION 14  
TIP PROJECT U-4712**

Prepared For:

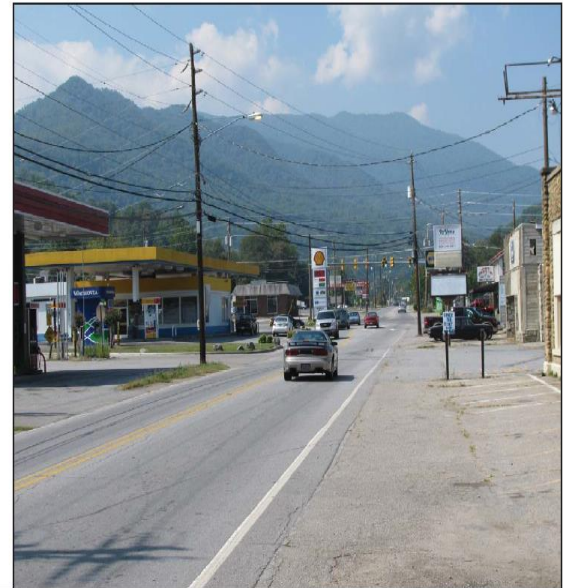
North Carolina Department of Transportation



## US 23B/SOUTH MAIN STREET CORRIDOR

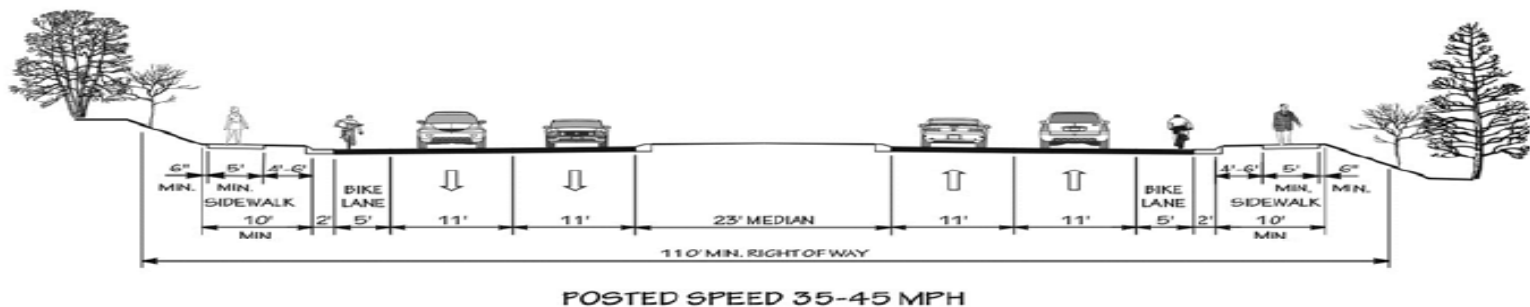
HYATT CREEK ROAD TO NINEVAH ROAD

TOWN OF WAYNESVILLE  
HAYWOOD COUNTY, NORTH CAROLINA

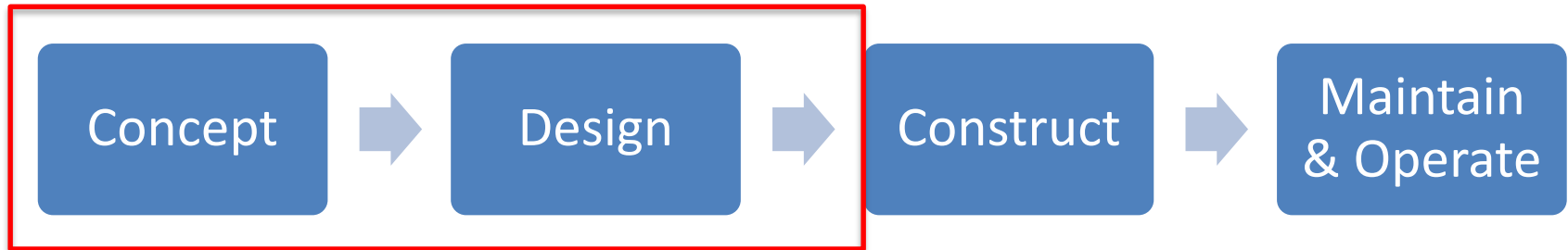


# Scoping Meeting - PEF

- Review Stakeholders Meeting
- Determine Project Design Criteria
- Scope Alternatives to Develop
- Discuss NEPA/SEPA Document
- Develop Project Schedule

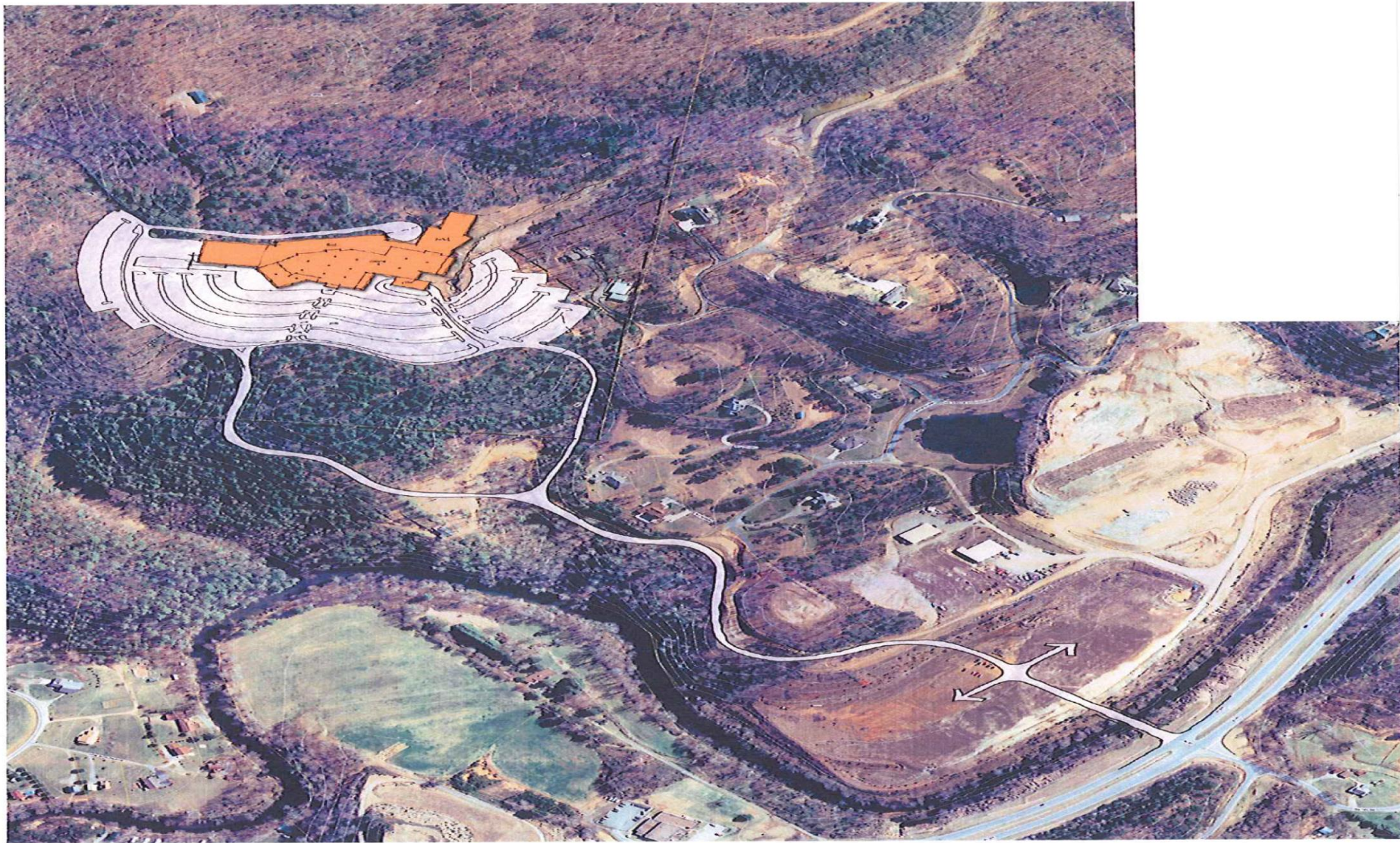








# Concept





# Design

TIP PROJECT: R-5527A

CONTRACT: C203449



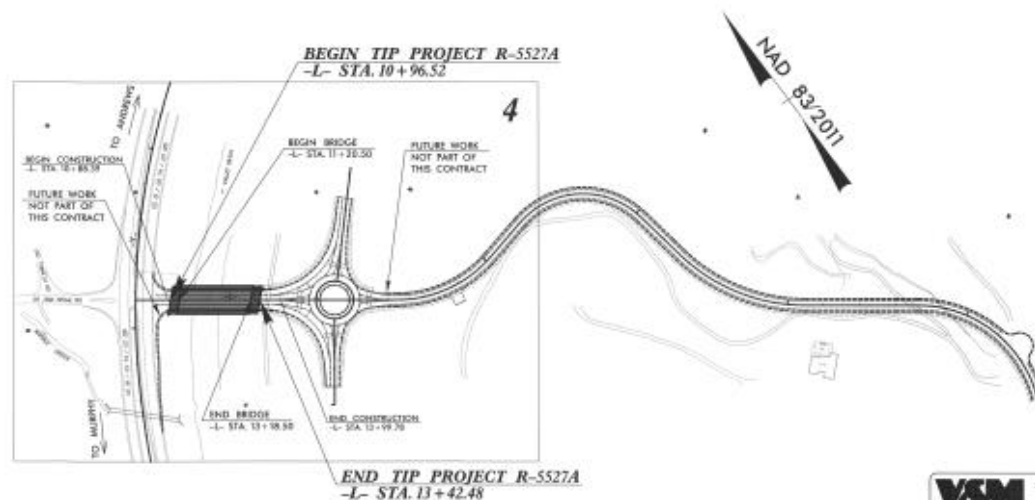
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

## CHEROKEE COUNTY

LOCATION: NEW BRIDGE OVER VALLEY RIVER ON NEW ROUTE  
JUST EAST OF US 74/19129, SR 1366 INTERSECTION  
IN CHEROKEE COUNTY

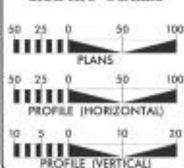
TYPE OF WORK: GRADING, PAVING, AND STRUCTURE

STATE	STATE PROJECT NUMBER	SHEET	TOTAL
N.C.	R-5527A	1	
44097.1.D3	AFD-0019(47)	P.E.	
44097.2.1	AFD-0019(47)	S.W.	
44097.3.FD3	AFD-0019(47)	CONST.	



THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

### GRAPHIC SCALES



### DESIGN DATA

ADT 2015 = 8000  
ADT 2035 = 20400  
DHV = 10 %  
D = 65 %  
T = 9 %  
V = 35 MPH  
\*JTST 2% + DUALS 7%  
FUNC. CLASS =  
RURAL ARTERIAL  
STATEWIDE TIER

### PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5527A = 0.009 MI.  
LENGTH STRUCTURES TIP PROJECT R-5527A = 0.038 MI.  
TOTAL LENGTH OF TIP PROJECT R-5527A = 0.047 MI.

Prepared in the Office of  
**VAUGHN & MELTON**  
100-1 PATTEN AVE.  
ASHEVILLE, NC 28805  
FOR NORTH DIVISION OF HIGHWAYS

ONE STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:  
JANUARY 21, 2014

HARDY WILUS, PE  
PROJECT ENGINEER

RECE SCHUBER, PE  
PROJECT DESIGN ENGINEER

WENDY CONNOR  
RALPH CANNADY  
SENIOR PROJECT MANAGER

### HYDRAULICS ENGINEER

*[Signature]*  
DATE: 10/20/13

ROADWAY DESIGN  
ENGINEER

*[Signature]*  
DATE: 10/21/13



# Construct

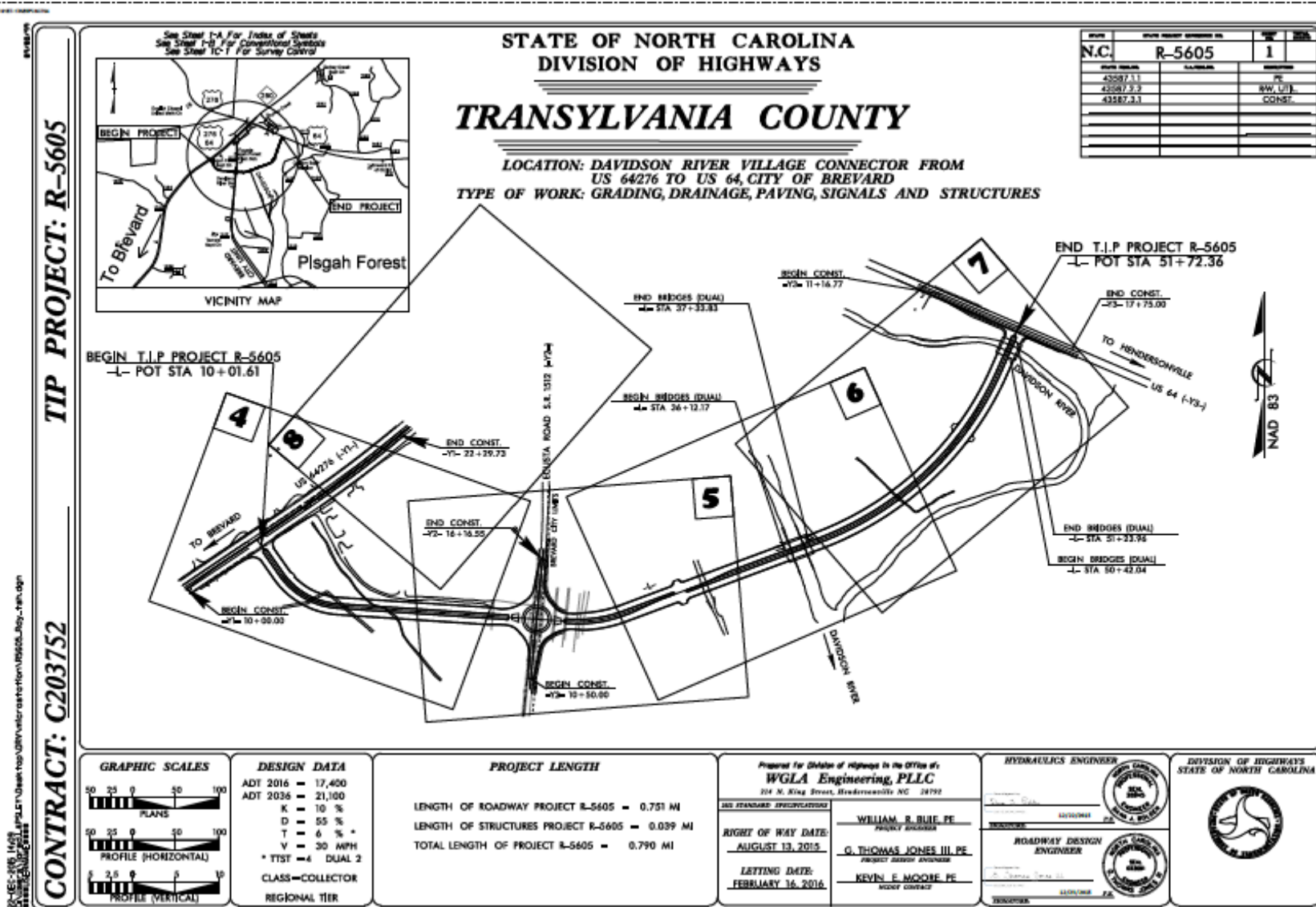








# Design



# Construct





# Questions?

