TIP PROJECT: U-3308

CONTRACT: C203567

STRUCTURES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

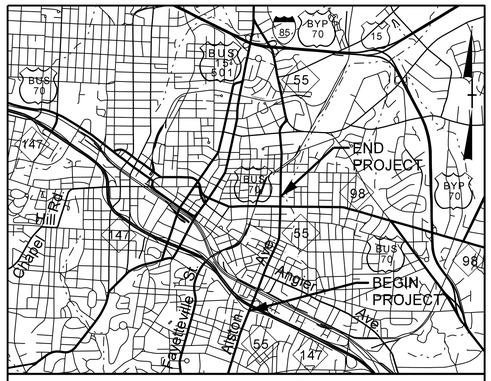
DURHAM COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3308		

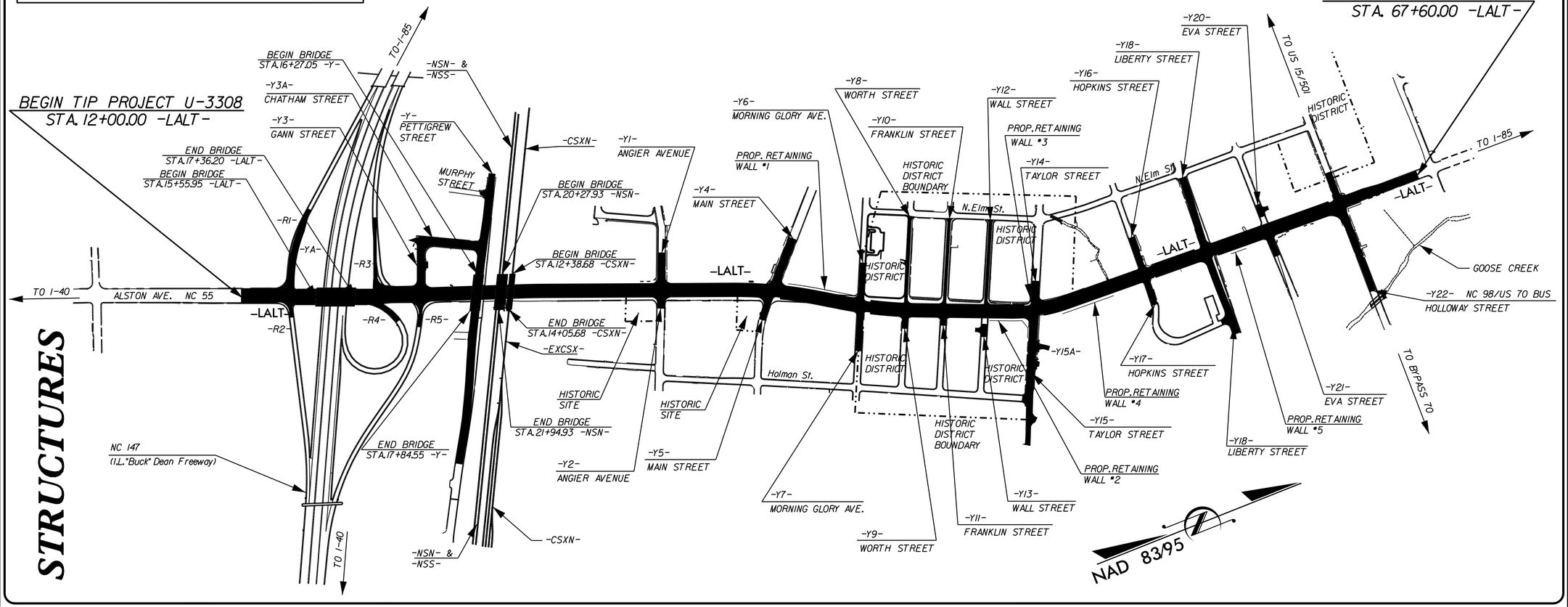
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34915.1.1	STP-55(20)	PE
34915.2.1	STP-55(20)	R/W
34915.2.U1	STP-55(20)	UTILITIES
34915.3.FR1	STP-55(20)	CONST.

LOCATION: *NC 55 (ALSTON AVE.) FROM NC 147 (I. L. "BUCK" DEAN FREEWAY) TO NORTH OF US 70 BUS/NC 98 (HOLLOWAY ST.)*

TYPE OF WORK: *Grading, Drainage, Curb & Gutter, Paving, Sidewalks, Retaining Walls, Structures, Railroad Track Work and Signals*



VICINITY MAP



DESIGN DATA

ADT 2016	=	25400 VPD
ADT 2036	=	32800 VPD
K	=	9 %
D	=	55 %
T	=	7 % *
V	=	35 MPH

* TTST 1% DUAL 6%

Minor Arterial
Regional Tier

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-3308	=	1.019 MILES
LENGTH STRUCTURE TIP PROJECT U-3308	=	0.034 MILES
TOTAL LENGTH TIP PROJECT U-3308	=	1.053 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

LETTING DATE:
JULY 19, 2016

L. E. SUTTON, PE
PROJECT ENGINEER

D.R. SMITH JR., PE
PROJECT DESIGN ENGINEER

22-JUN-2016 07:48
$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
jdhawk

TIP PROJECT: U-3308

CONTRACT: C203567

STRUCTURES

STATE	STATE PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS
N.C.	U-3308			
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION		
34915.1.1	STP-55(20)	PE		
34915.2.1	STP-55(20)	R/W		
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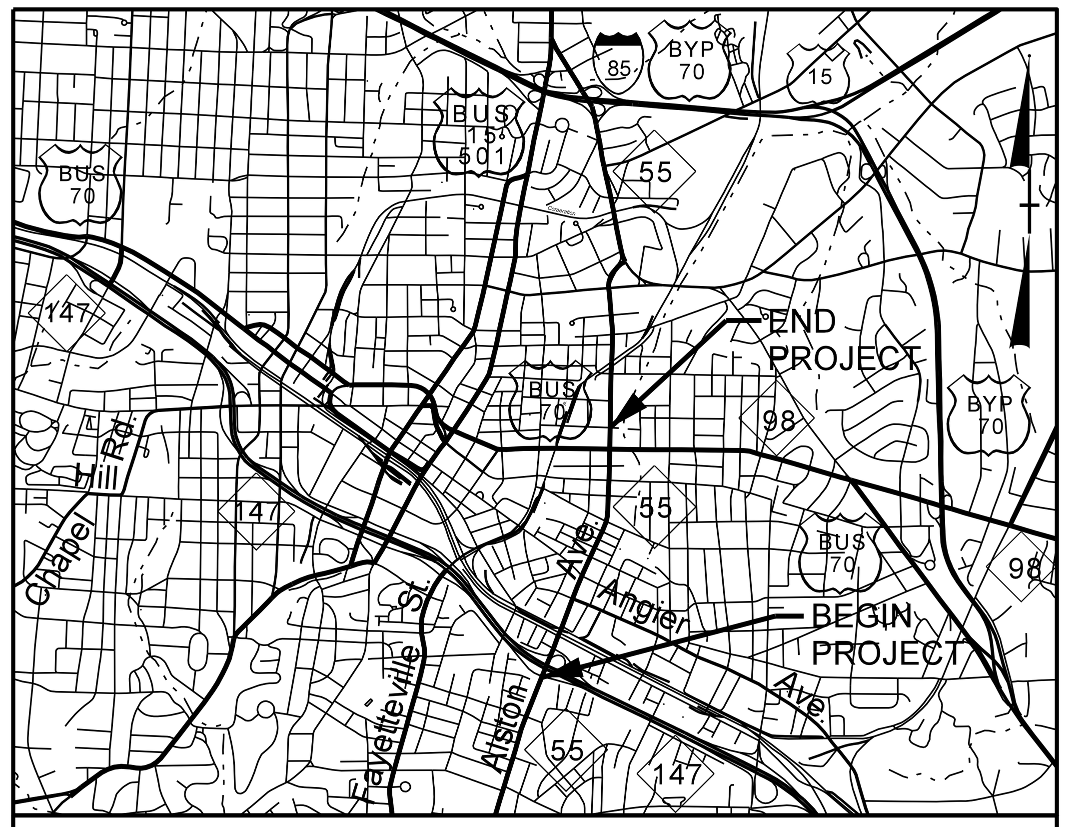
34915.3.FR1	STP-55(20)	CONST.		

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

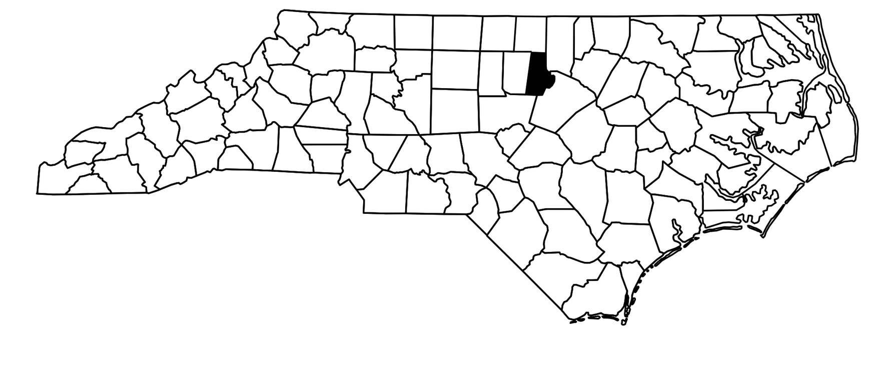
DURHAM COUNTY

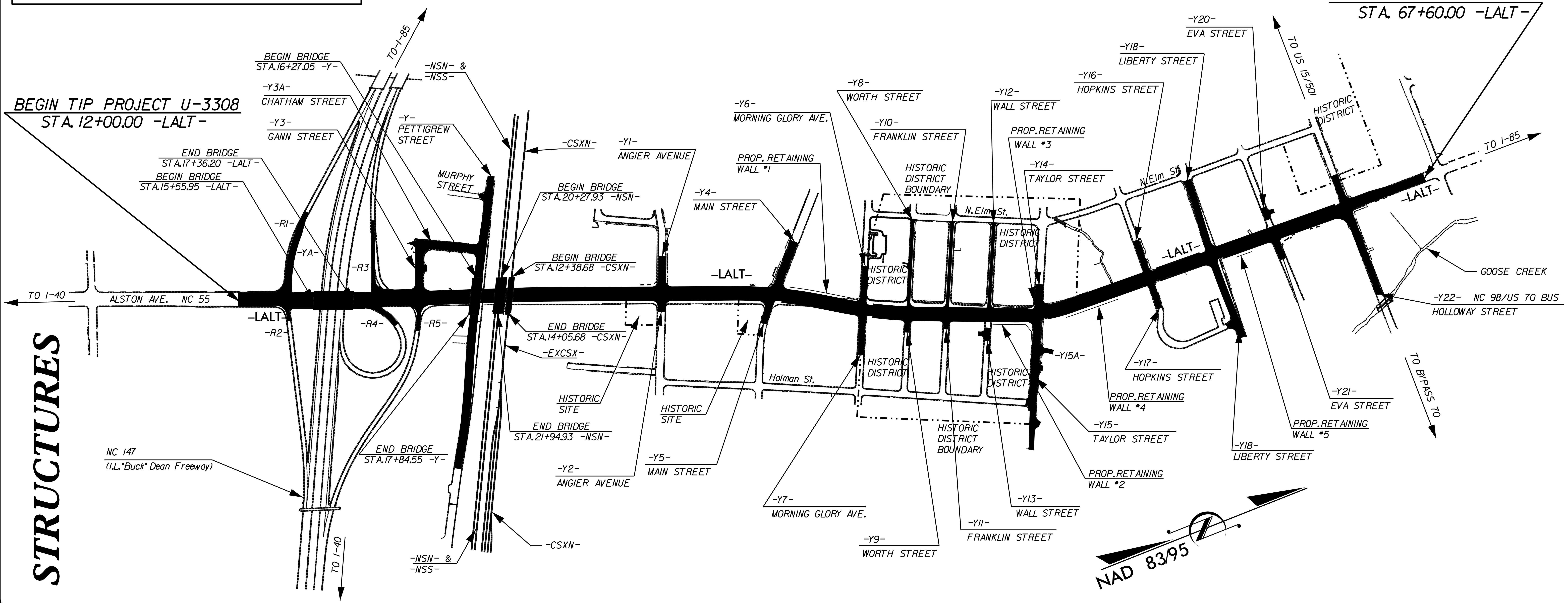
LOCATION: NC 55 (ALSTON AVE.) FROM NC 147 (I. L. "BUCK" DEAN FREEWAY) TO NORTH OF US 70 BUS/NC 98 (HOLLOWAY ST.)

TYPE OF WORK: Grading, Drainage, Curb & Gutter, Paving, Sidewalks, Retaining Walls, Structures, Railroad Track Work and Signals



VICINITY MAP





DESIGN DATA

ADT 2016 = 25400 VPD
ADT 2036 = 32800 VPD
K = 9 %
D ≐ 55 %
T = 7 % *
V = 35 MPH
* TTST 1% DUAL 6%
Minor Arterial
Regional Tier

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-3308	=	1.019 MILES
LENGTH STRUCTURE TIP PROJECT U-3308	=	0.034 MILES
TOTAL LENGTH TIP PROJECT U-3308	=	1.053 MILES

Prepared in the Office of:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

LETTING DATE:
JUNE 21, 2016

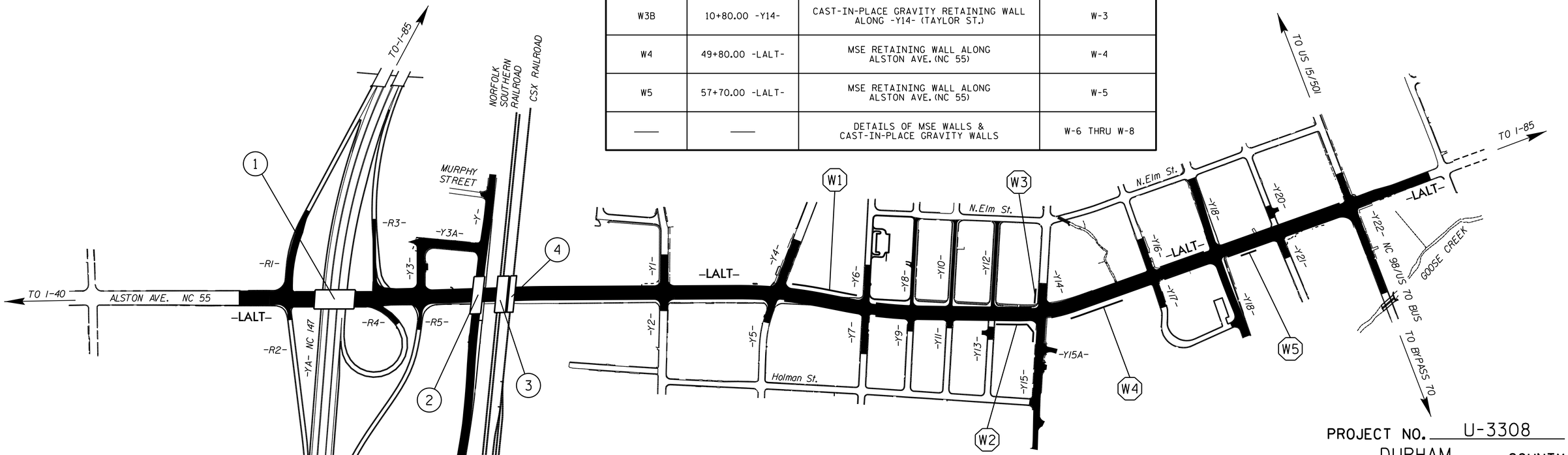
L. E. SUTTON, PE
PROJECT ENGINEER

D.R. SMITH JR., PE
PROJECT DESIGN ENGINEER

19-MAY-2016 10:11
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$
kbeard

INDEX

STR. NO.	STATION	DESCRIPTION	SHEET NO.
1	16+42.70 -LALT- 13+31.37 -YA-	BRIDGE OVER NC 147 (DURHAM EXPRESSWAY) ON NC 55 (ALSTON AVE.)	S1-1 THRU S1-47
2	23+00.86 -LALT- 17+05.05 -Y-	BRIDGE OVER NC 55 (ALSTON AVE.) ON PETTIGREW ST.	S2-1 THRU S2-32
3	24+09.63 -LALT- 21+11.43 -NSN-	BRIDGE OVER NC 55 (ALSTON AVE.) ON NSN RAILROAD	S3-1 THRU S3-44
4	24+55.20 -LALT- 13+22.18 -CSXN-	BRIDGE OVER NC 55 (ALSTON AVE.) ON CSXN RAILROAD	S4-1 THRU S4-67
W1	37+40.00 -LALT-	MSE RETAINING WALL ALONG ALSTON AVE. (NC 55)	W-1
W2	46+80.00 -LALT-	CAST-IN-PLACE GRAVITY RETAINING WALL ALONG ALSTON AVE. (NC 55)	W-2
W3A	10+50.00 -Y14-	CAST-IN-PLACE GRAVITY RETAINING WALL ALONG -Y14- (TAYLOR ST.)	W-3
W3B	10+80.00 -Y14-	CAST-IN-PLACE GRAVITY RETAINING WALL ALONG -Y14- (TAYLOR ST.)	W-3
W4	49+80.00 -LALT-	MSE RETAINING WALL ALONG ALSTON AVE. (NC 55)	W-4
W5	57+70.00 -LALT-	MSE RETAINING WALL ALONG ALSTON AVE. (NC 55)	W-5
——	——	DETAILS OF MSE WALLS & CAST-IN-PLACE GRAVITY WALLS	W-6 THRU W-8



PROJECT NO. U-3308

DURHAM COUNTY

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

INDEX SHEET

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			

DRAWN BY : T. H. CARROLL DATE : 11/17/14
CHECKED BY : M.K. BEARD DATE : 4/9/15

01-DEC-2015 10:46
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jdhawk