

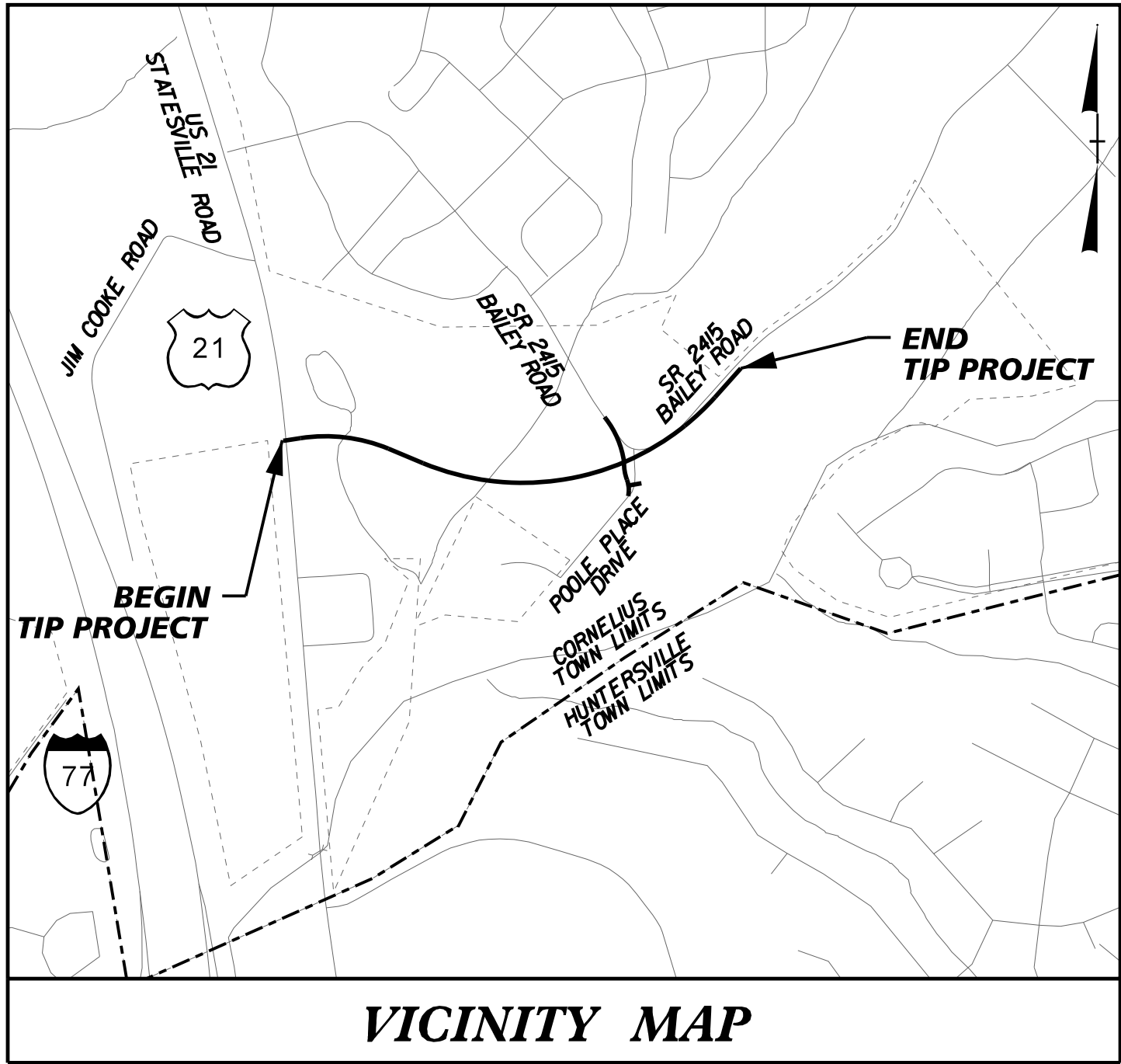
K:\CHL\PRJ\01036528 - U-6105 (Bailey Rd Ext)\Roadway\Pro\U-6105_rdy_1.shdgn

10/24/2025

CONTRACT: C205095

TIP PROJECT: U-6105

SEE SHEET 1A FOR INDEX OF SHEETS
SEE SHEET 1B FOR CONVENTIONAL SYMBOLS



VICINITY MAP

Note: Not to Scale

END CONSTRUCTION
-Y1- STA. 16+00.00

BEGIN TIP PROJECT
U-6105
-L- STA. 10+00.00

BEGIN CONSTRUCTION
-Y1A- STA. 10+50.00

BEGIN CONSTRUCTION
-Y1- STA. 10+63.91

BEGIN CONSTRUCTION
-G1- STA. 10+00.00

END CONSTRUCTION
-G1- STA. 13+00.00

BEGIN CULVERT
-L- STA. 21+84.63

END CONSTRUCTION
-Y2- STA. 13+01.80

END TIP PROJECT
U-6105
-L- STA. 34+66.65

END CONSTRUCTION
-Y4- STA. 10+85.00

BEGIN CONSTRUCTION
-Y3- STA. 10+00.00

END CULVERT
-L- STA. 22+18.94

★ TRAFFIC SIGNAL
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF
TOWN OF CORNELIUS

GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

AADT 2026 = N/A
AADT 2046 = 5,100
K = 4%
D = 51%
T = 3%*
V = 40 MPH

CLASSIFICATION:
MINOR COLLECTOR

* 2% TTST 1% DUAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-6105 = 0.461 MILES
LENGTH STRUCTURE TIP PROJECT U-6105 = 0.006 MILES
TOTAL LENGTH TIP PROJECT U-6105 = 0.467 MILES

-L- USED TO CALCULATE PROJECT LENGTH

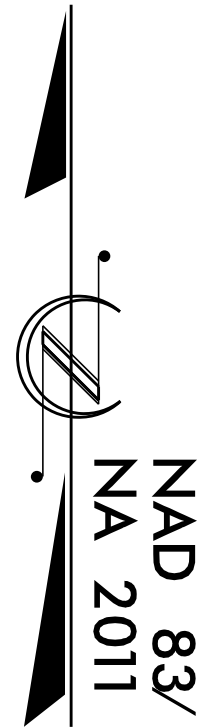
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

LOCATION: SR 2415 (BAILEY ROAD) FROM POOLE PLACE DRIVE TO
US 21 (STATESVILLE ROAD) IN CORNELIUS
CONSTRUCT ROADWAY ON NEW LOCATION

TYPE OF WORK: GRADING, DRAINAGE, CULVERT, AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6105	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48173.1.1	STBGDA-2415(001)	PE	
48173.2.1	STBGDA-2415(001)	ROW, UTL	
48173.3.1	STBGDA-2415(001)	CONST	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED FOR
THE NCDOT BY:

Kimley »Horn

NC LICENSE #F-0102
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202
PHONE: (704) 333-5131

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

JULY 26, 2022

LETTING DATE:

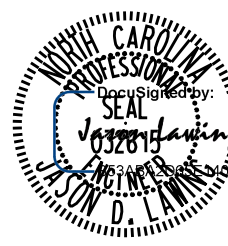
FEBRUARY 17, 2026

JASON D. LAWING, P.E.
PROJECT ENGINEER

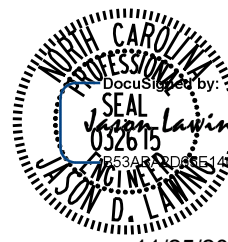
ANDREW WEEKS, E.I.T.
PROJECT DESIGN ENGINEER

YANWEI MA, P.E.
DM-STIP PROJECT MANAGER

HYDRAULICS ENGINEER



SIGNATURE: 11/25/2025 P.E.
ROADWAY DESIGN ENGINEER



SIGNATURE: 11/25/2025 P.E.

