PUBLIC MEETING MAP – ALTERNATIVE 2A

JACKSON COUNTY, NC

R-5600

UPGRADE NC 107
FROM NC 116 TO US-23 BUSINESS

PLANS PREPARED IN THE OFFICE OF:

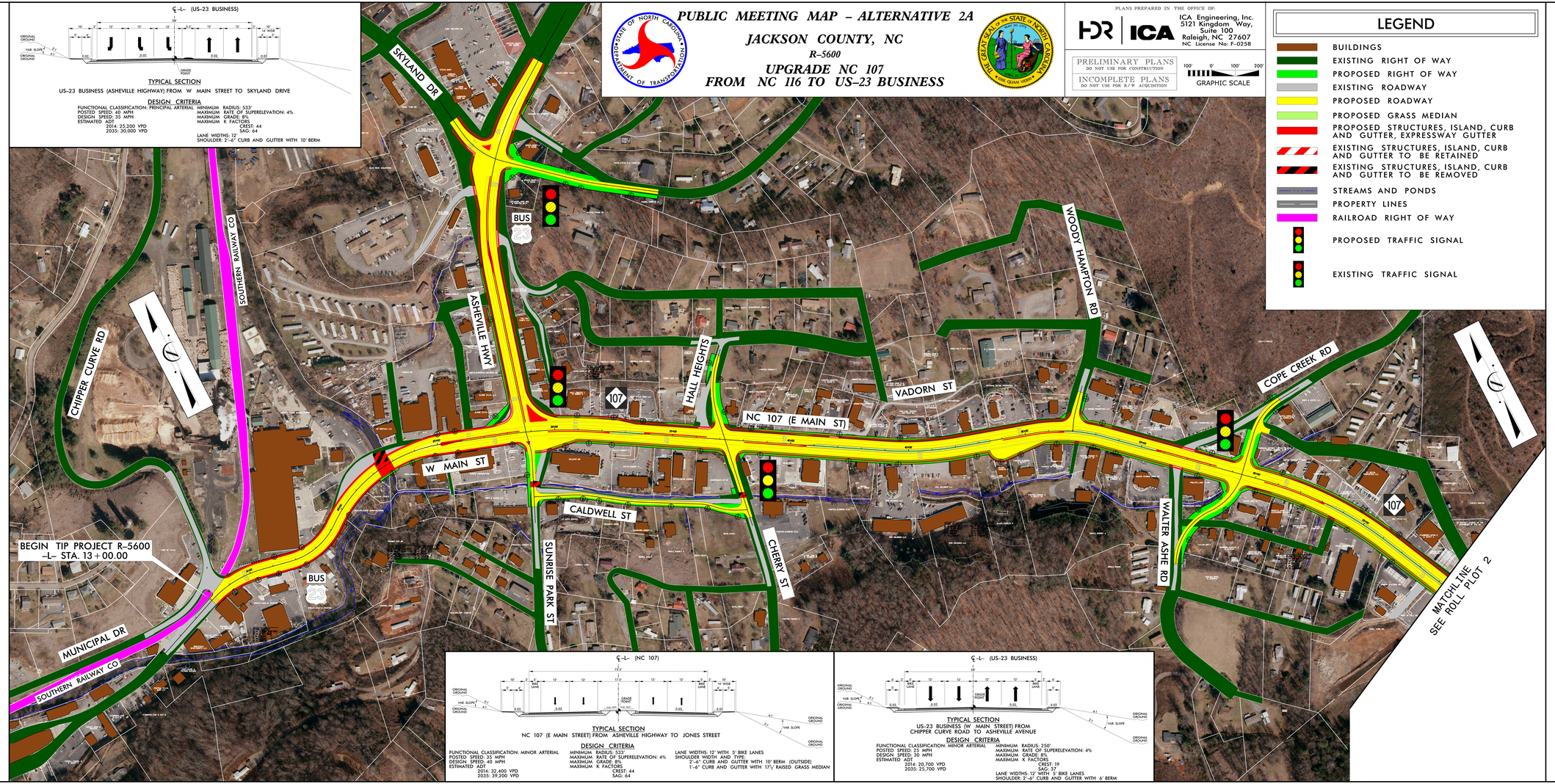
HDR | ICA

ICA Engineering, Inc.
5121 Kingdom Way,
Suite 100
Raleigh, NC 27607
NC License No: F-0258

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

100' 0' 100' 200'
GRAPHIC SCALE



LEGEND

- BUILDINGS
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING ROADWAY
- PROPOSED ROADWAY
- PROPOSED GRASS MEDIAN
- PROPOSED STRUCTURES, ISLAND, CURB AND GUTTER, EXPRESSWAY GUTTER
- EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE RETAINED
- EXISTING STRUCTURES, ISLAND, CURB AND GUTTER TO BE REMOVED
- STREAMS AND PONDS
- PROPERTY LINES
- RAILROAD RIGHT OF WAY
- PROPOSED TRAFFIC SIGNAL
- EXISTING TRAFFIC SIGNAL

TYPICAL SECTION

US-23 BUSINESS (ASHEVILLE HIGHWAY) FROM W MAIN STREET TO SKYLAND DRIVE

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: PRINCIPAL ARTERIAL
POSTED SPEED: 40 MPH
DESIGN SPEED: 35 MPH
ESTIMATED ADT
2014: 25,200 VPD
2035: 30,000 VPD

MINIMUM RADIUS: 533'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 44
SAG: 64

LANE WIDTHS: 12'
SHOULDER: 2'-6" CURB AND GUTTER WITH 10' BERM

TYPICAL SECTION

NC 107 (E MAIN STREET) FROM ASHEVILLE HIGHWAY TO JONES STREET

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 35 MPH
DESIGN SPEED: 40 MPH
ESTIMATED ADT
2014: 22,400 VPD
2035: 39,200 VPD

MINIMUM RADIUS: 533'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 44
SAG: 64

LANE WIDTHS: 12' WITH 5' BIKE LANES
SHOULDER WIDTH AND TYPE:
2'-6" CURB AND GUTTER WITH 10' BERM (OUTSIDE)
1'-6" CURB AND GUTTER WITH 17½' RAISED GRASS MEDIAN

TYPICAL SECTION

US-23 BUSINESS (W MAIN STREET) FROM
CHIPPER CURVE ROAD TO ASHEVILLE AVENUE

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 25 MPH
DESIGN SPEED: 30 MPH
ESTIMATED ADT
2014: 20,700 VPD
2035: 25,700 VPD

MINIMUM RADIUS: 250'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS
CREST: 19
SAG: 37

LANE WIDTHS: 12' WITH 5' BIKE LANES
SHOULDER: 2'-6" CURB AND GUTTER WITH 6' BERM

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SHEET 1 OF 2

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