PUBLIC MEETING MAP – ALTERNATIVE 1A

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

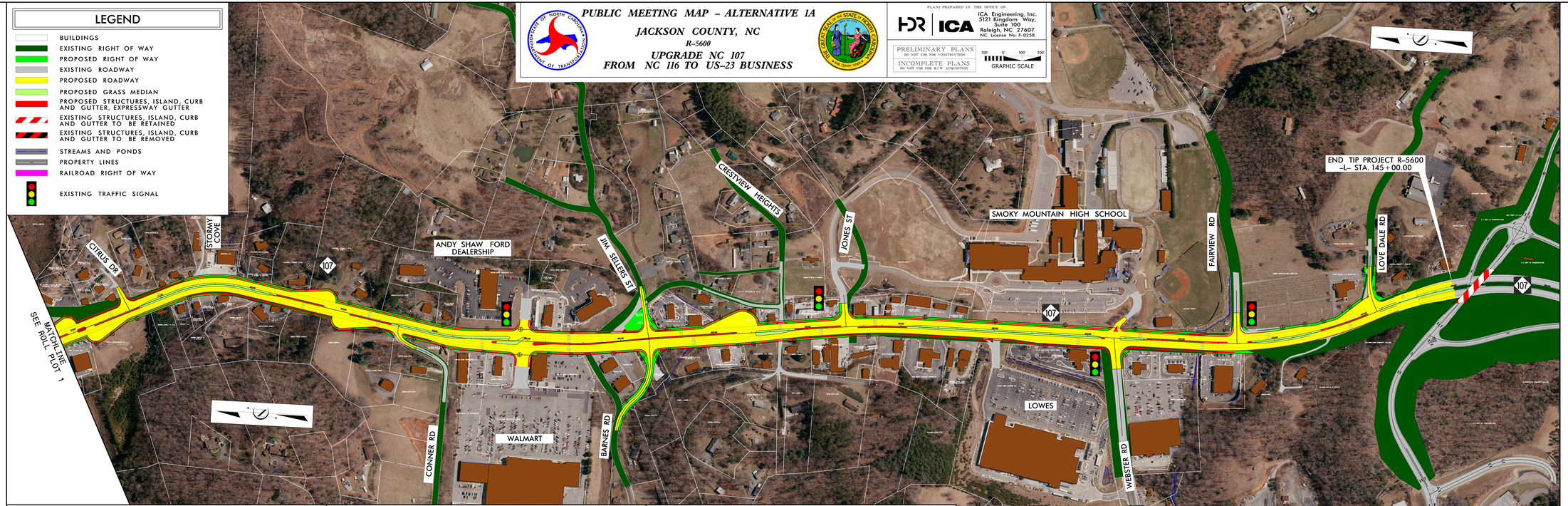
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

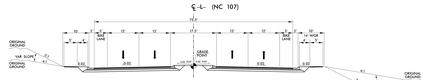
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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
- EXISTING TRAFFIC SIGNAL





TYPICAL SECTION

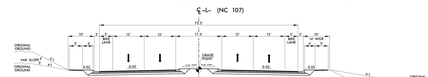
NC 107 (E MAIN STREET) FROM JONES STREET TO SOUTH OF NC 116

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 45 MPH
DESIGN SPEED: 50 MPH
ESTIMATED ADT:
2014: 29,800 VPD
2035: 34,800 VPD

MINIMUM RADIUS: 926'
MAXIMUM RATE OF SUPERELEVATION: 4%
MAXIMUM GRADE: 8%
MAXIMUM K FACTORS:
CREST: 84
SAG: 96

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



TYPICAL SECTION

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

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 55 MPH
DESIGN SPEED: 60 MPH
ESTIMATED ADT:
2014: 32,400 VPD
2035: 39,200 VPD

MINIMUM RADIUS: 1335'
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

* The need for right turn lanes is dependent on the amount of traffic and is subject to change

DIRECTIONAL CROSSOVER WITH MEDIAN U-TURNS

U-TURN KNUCKLES NOT TO BE PLACED IN WETLANDS OR RIGHT OF WAY SENSITIVE AREAS

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FROM NC 116 TO US-23 BUSINESS

SHEET 2 OF 2

PUBLIC MEETING MAP – ALTERNATIVE 1A
JACKSON COUNTY, NC
R-5600
UPGRADE NC 107
FROM NC 116 TO US-23 BUSINESS

SHEET 2 OF 2