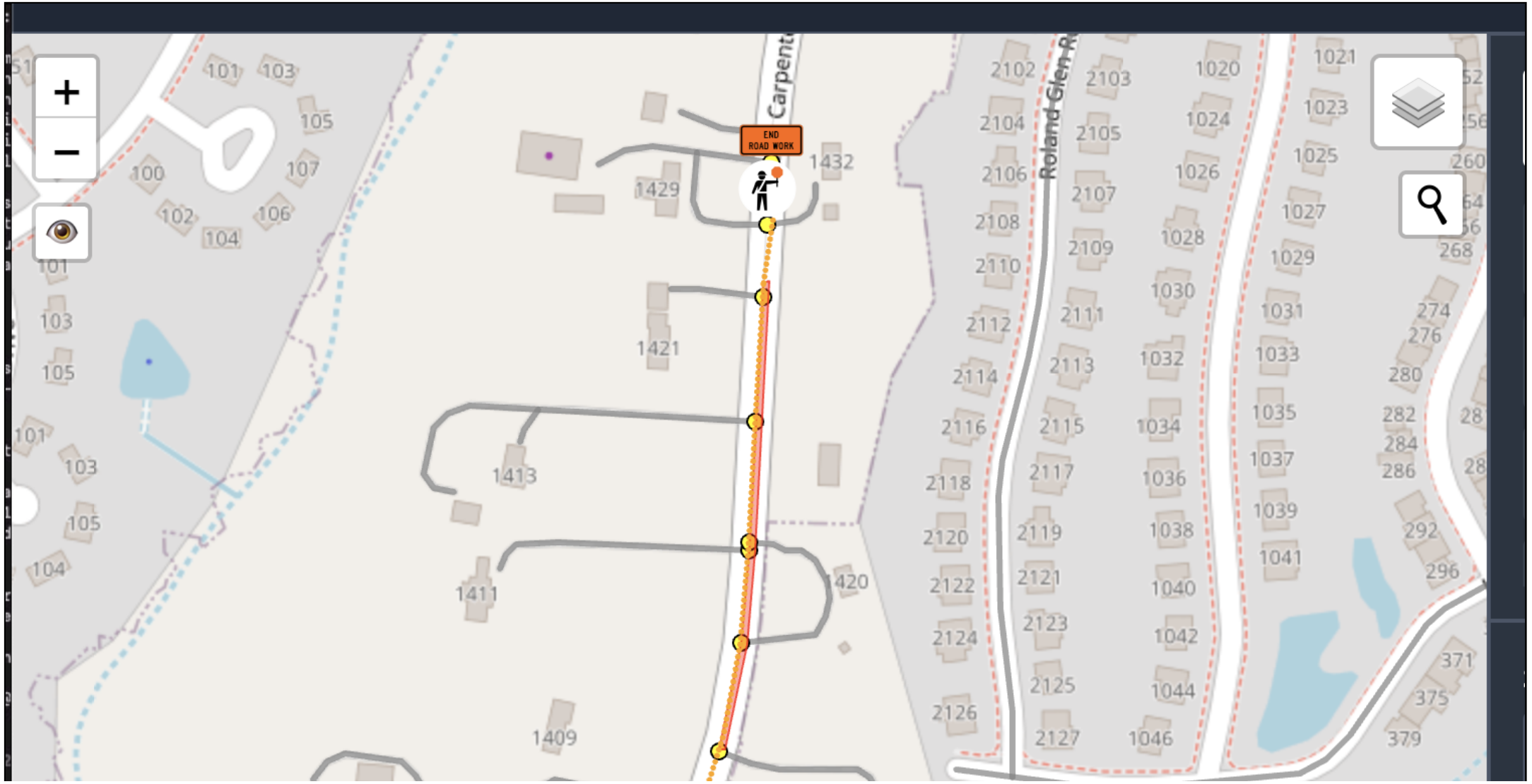
TRAFFIC CONTROL PLAN

Airport Road Work Zone

Airport Road, North Carolina



GENERAL NOTES:

1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of Traffic Control Plans and for the execution of traffic control during construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the guidance of the State Highway System Design and construction requirements based on the Federal Highway Administration.

2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-690. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly used situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.

3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1
CHANNELIZING DEVICE SPACING

Work Zone Speed (mph)	Spacing (feet)	
	Type I Barricades, Type II Barricades, Type III Barricades, Tubular Markers	Cones or Temporary Raised Pavement Markers
25	50	20
30	60	30
35	75	40
40	100	80
45	115	100
50	130	120
55	150	140
60	160	160
65	175	180
70	200	200

TABLE 2
TAPER LENGTH "L"

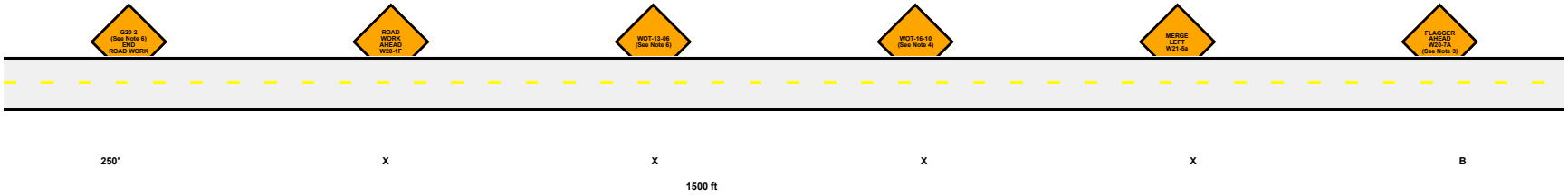
Work Zone Speed (mph)	Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	490
60	565
65	645
70	730

TABLE 3
WORK ZONE SIGN SPACING "X"

Sign Spacing (feet)	
Arterials and Collectors with Work Zone Speed 40 mph	500
Arterials and Collectors with Work Zone Speed 45 mph	500
Limited Access Roadways	1,500

TABLE 4
BUFFER LENGTH "B"

Work Zone Speed (mph)	Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	490
60	565
65	645
70	730



NOTES:

1. This index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
2. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Spacing
   See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (WOT-16-10) and associated work zone sign spacing.
5. Additional one-way control may be provided by the following means:
   a. Flag-carrying vehicle
   b. Official vehicle
   c. Pilot vehicles
   d. Traffic signals
6. The "Speeding Fines Doubled When Workers Present" signs (WOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
8. Railroad Crossings
   a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
   b. If the queuing of vehicles across an active railroad crossing is expected, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

OPTION - 1
REMOVABLE STRIPING TYPE

OPTION - 2
PORTABLE TYPE

RUMBLE STRIP SETS

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- D — Work Zone Sign
- Flagger
- → — Lane Identification and Direction of Traffic