

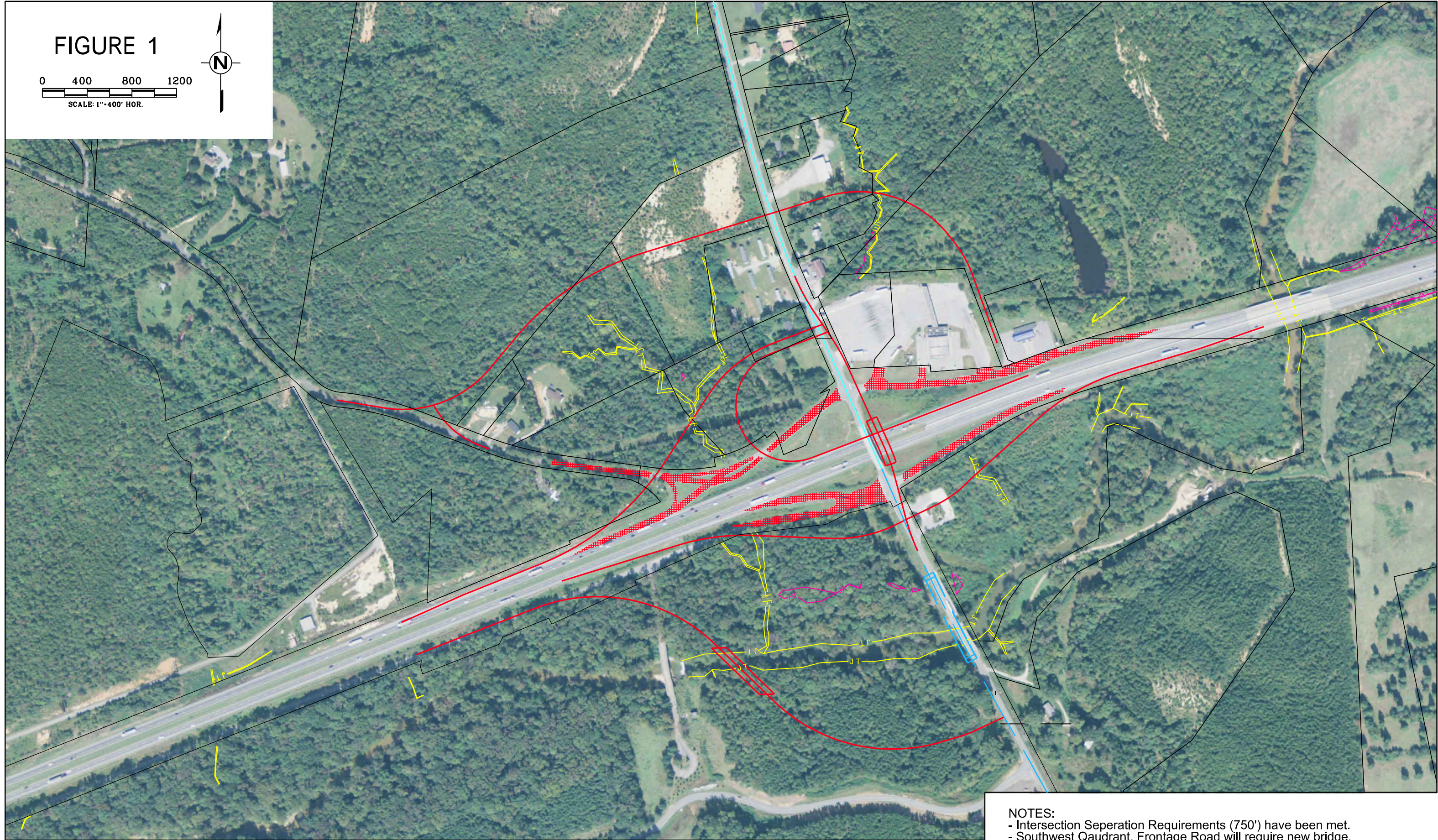
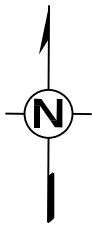
## **APPENDIX B**

### **Preliminary Study Alternatives**



FIGURE 1

0 400 800 1200  
SCALE: 1"=400' HOR.



— Alternate 1 Alignments  
— Proposed Bridge  
— Pavement Removal  
— Jurisdictional Streams  
— Jurisdictional Wetlands  
— Existing ROW or Property Line

— Future Alignment  
— Future Bridge  
— Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-83 (Blacksburg Hwy) EXIT 100  
ALTERNATE A

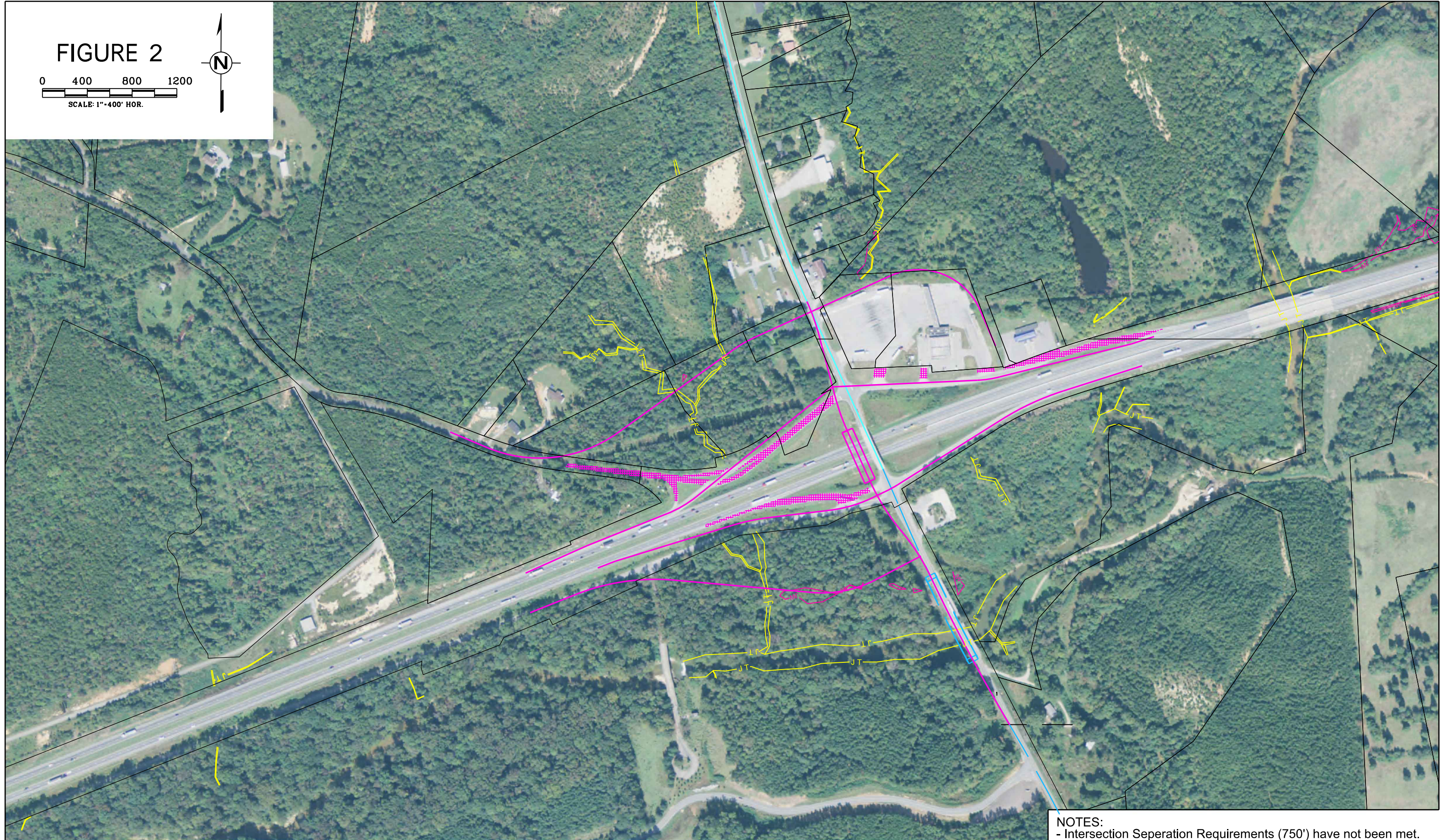
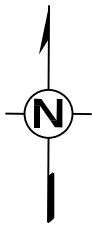
NOTES:

- Intersection Separation Requirements (750') have been met.
- Southwest Quadrant, Frontage Road will require new bridge.
- 3 Stream crossings required.
- Future Bridge and Future Alignment under construction & should be completed prior to this project beginning.
- Northwest Quadrant improvement will result in 1 residential displacement



FIGURE 2

0 400 800 1200  
SCALE: 1"=400' HOR.



— Alternate 2 Alignments  
— Proposed Bridge  
— Pavement Removal  
— Jurisdictional Streams  
— Jurisdictional Wetlands  
— Existing ROW or Property Line

— Future Alignment  
— Future Bridge  
— Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-83 (Blacksburg Hwy) EXIT 100  
ALTERNATE B

NOTES:

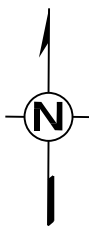
- Intersection Separation Requirements (750') have not been met.  
350' between North ramp and Frontage Road  
325' between South ramp and Frontage Road
- Northwest Quadrant will result in 1 residential displacement.
- 3 New Stream crossings required.
- Future Bridge and Future Alignment under construction & should be completed by project beginning.
- Southwest Qaudrant, Frontage Road alignment disturbs wetlands.





FIGURE 3

0 400 800 1200  
SCALE: 1"=400' HOR.



- Alternate 3 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

- Future Alignment
- Future Bridge
- Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-83 (Blacksburg Hwy) EXIT 100  
ALTERNATE C

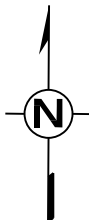
NOTES:

- Intersection Separation Requirements (750') have not been met.  
205' between North ramp and frontage road  
280' between South ramp and frontage road
- 3 New Stream crossings required.
- Future Bridge and Future Alignment under construction and should be complete by project beginning.
- Southwest Quad, Frontage Road alignment will potentially disturb wetland.



FIGURE 4

0 400 800 1200  
SCALE: 1"=400' HOR.



- Alternate 4 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

- Future Alignment
- Future Bridge
- Existing Alignment
- Properties to Acquire

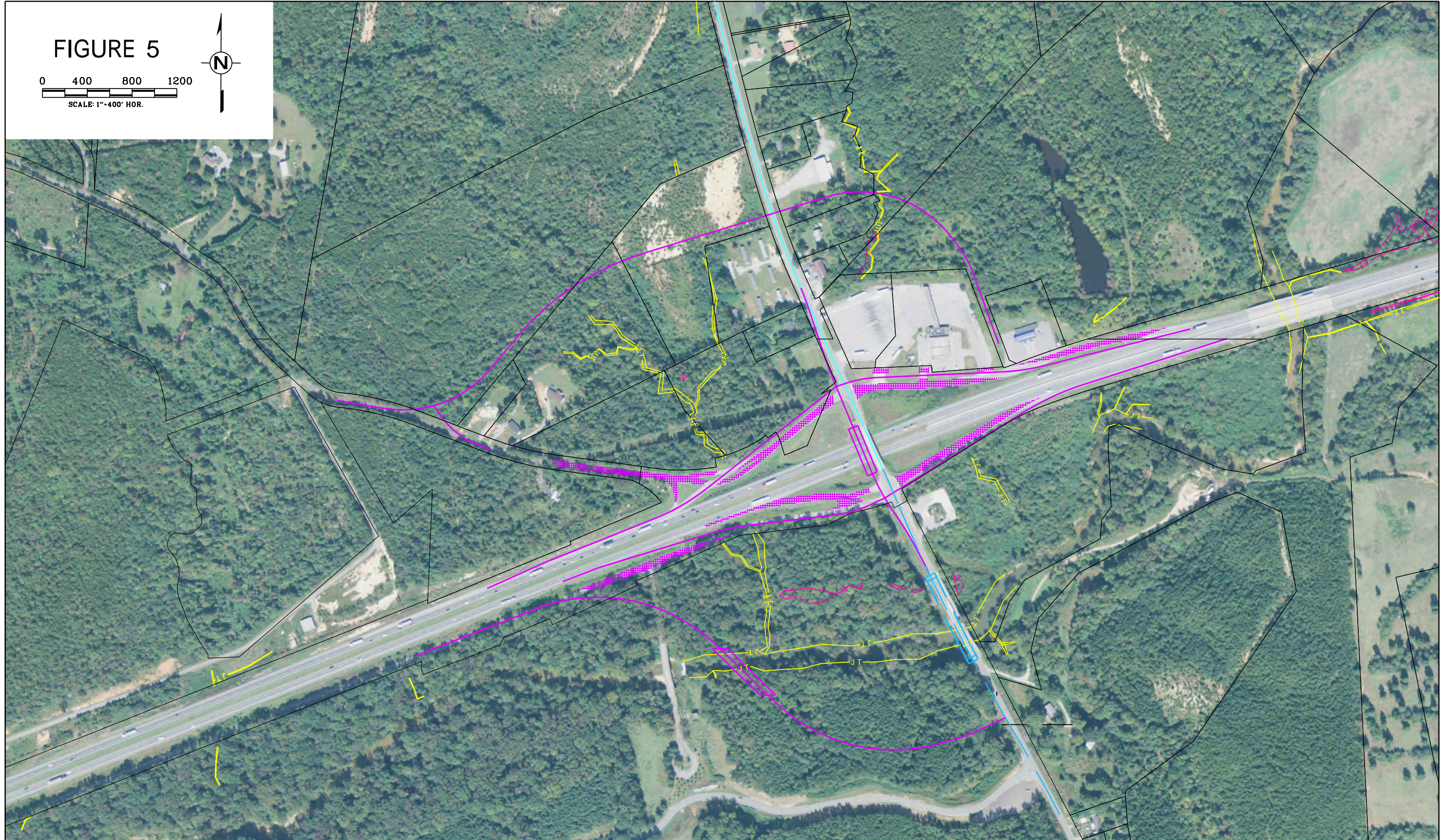
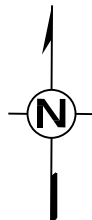
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-83 (Blacksburg Hwy) EXIT 100  
ALTERNATE D

- NOTES:
- Intersection Separation Requirements (750') have been met.  
825' between North ramp and Frontage road  
280' between South ramp and Frontage road.
  - Northeast Quadrant requires property aquisition.
  - 2 New Stream crossings required.
  - Future Bridge and Future Alignment under construction & should be complete prior to project beginning.



FIGURE 5

0 400 800 1200  
SCALE: 1"=400' HOR.



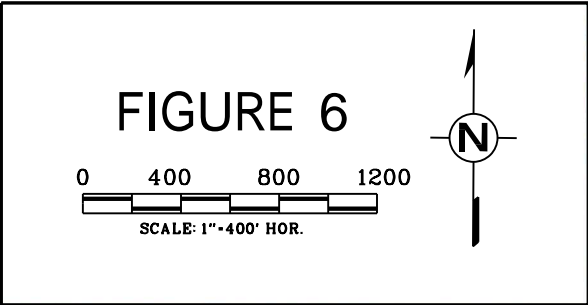
- Alternate 5 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

- Future Alignment
- Future Bridge
- Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-83 (Blacksburg Hwy) EXIT 100  
ALTERNATE E

NOTES:  
- Intersection Separation Requirements (750') have not been met.  
- 2 New Stream Crossings required.  
- Future Bridge and Future Alignment under construction & should be complete prior to the project beginning.





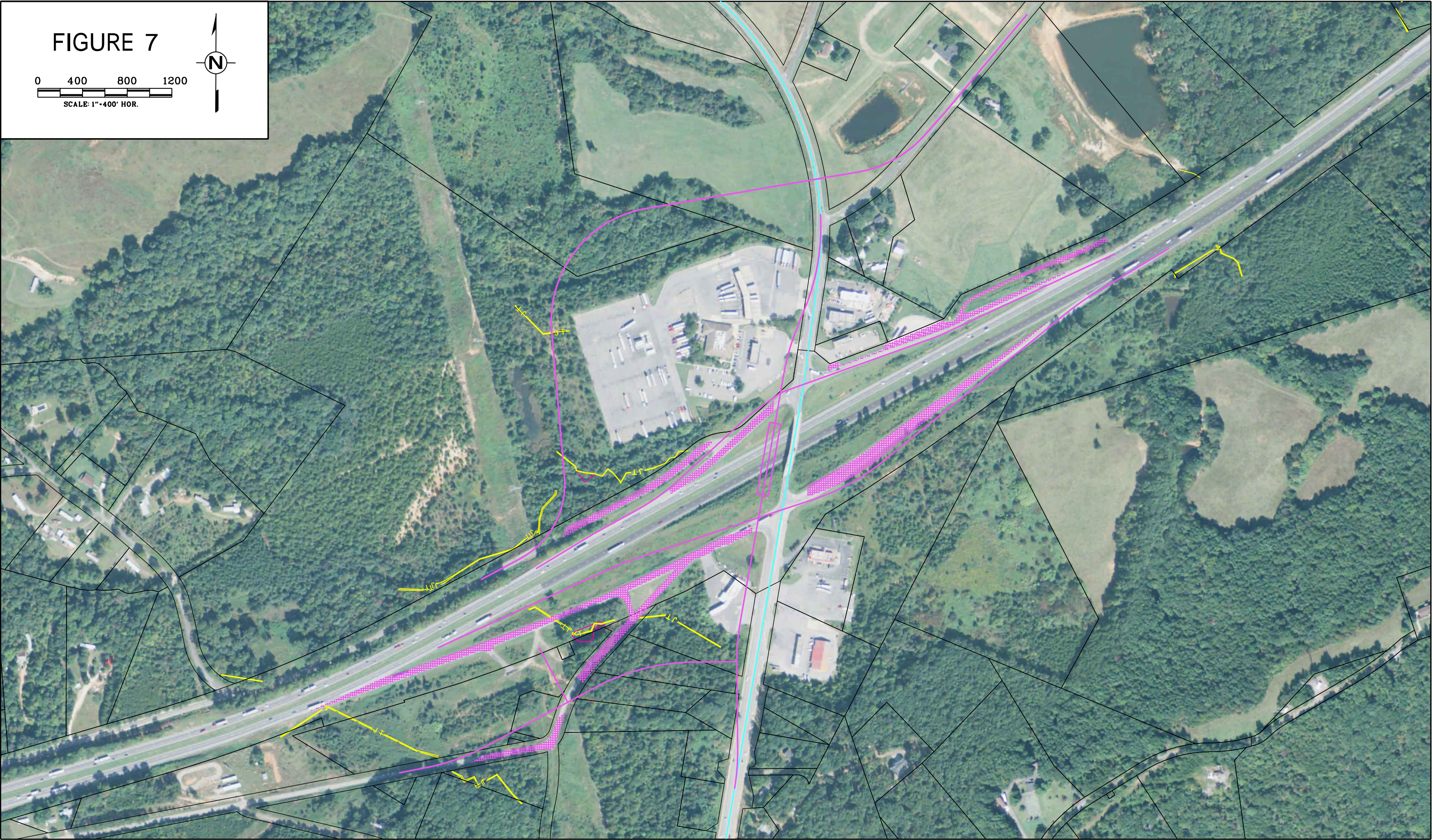
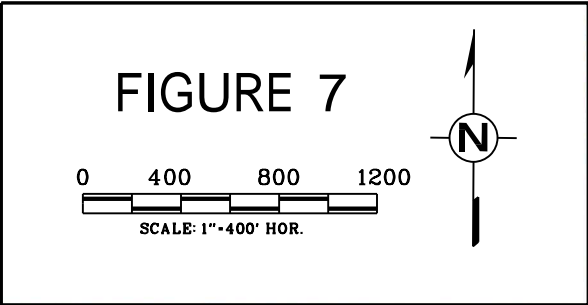
- Alternate 1 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

**I-85 WIDENING**  
**CHEROKEE COUNTY, SC**  
**I-85 & S-5/198 (N Mountain St) EXIT 102**  
**ALTERNATE A**

- NOTES:**
- Intersection Separation Requirements (750') have been met.
  - 2 Stream crossings required.
  - Crossroad realignment will result in 1 business displacement.
  - Property Access from existing northbound exit ramp will be eliminated.





- Alternate 2 Alignments
- Proposed Bridge
- ▨ Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

— Existing Alignment

**I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-5/198 (N Mountain St) EXIT 102  
ALTERNATE B**

**NOTES:**  
- Intersection Separation Requirements (750') have not been met.  
North Frontage road meets requirements  
650' between the South Ramp and Frontage road.  
- Southeast Quadrant improvements will result in 1 business  
displacement.  
- 2 Stream crossings required.



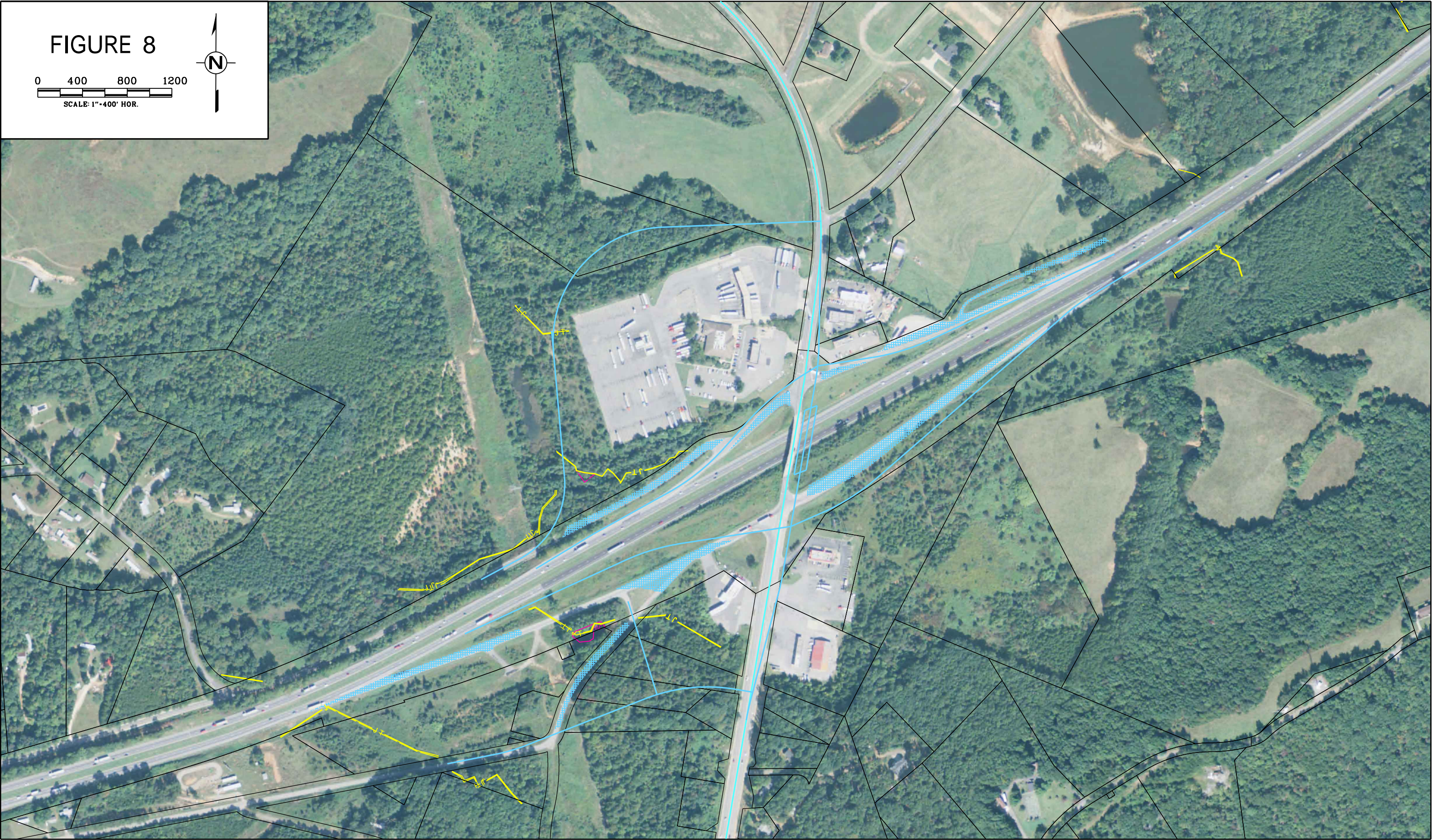
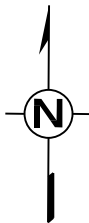


FIGURE 8

0 400 800 1200  
SCALE: 1"=400' HOR.



- Alternate 3 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

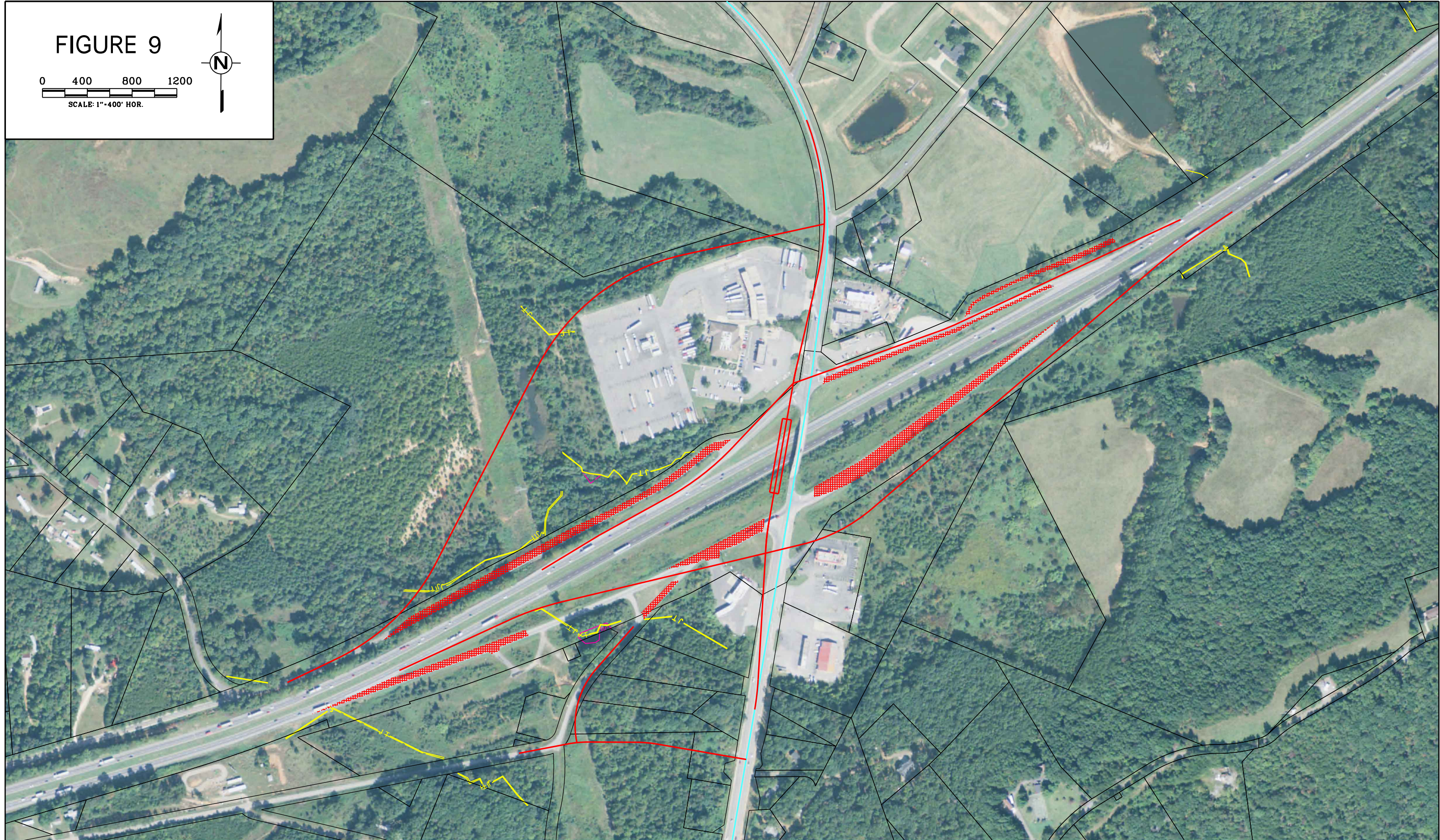
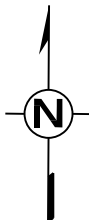
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-5/198 (N Mountain St) EXIT 102  
ALTERNATE C

- NOTES:
- Intersection Separation Requirements (750') have not been met. 690' between the North Ramp and Frontage road. South Frontage road meets the requirement.
  - Crossroad realignment will result in 1 business displacement.
  - 2 Stream crossings required.



FIGURE 9

0 400 800 1200  
SCALE: 1"=400' HOR.



- Alternate 4 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

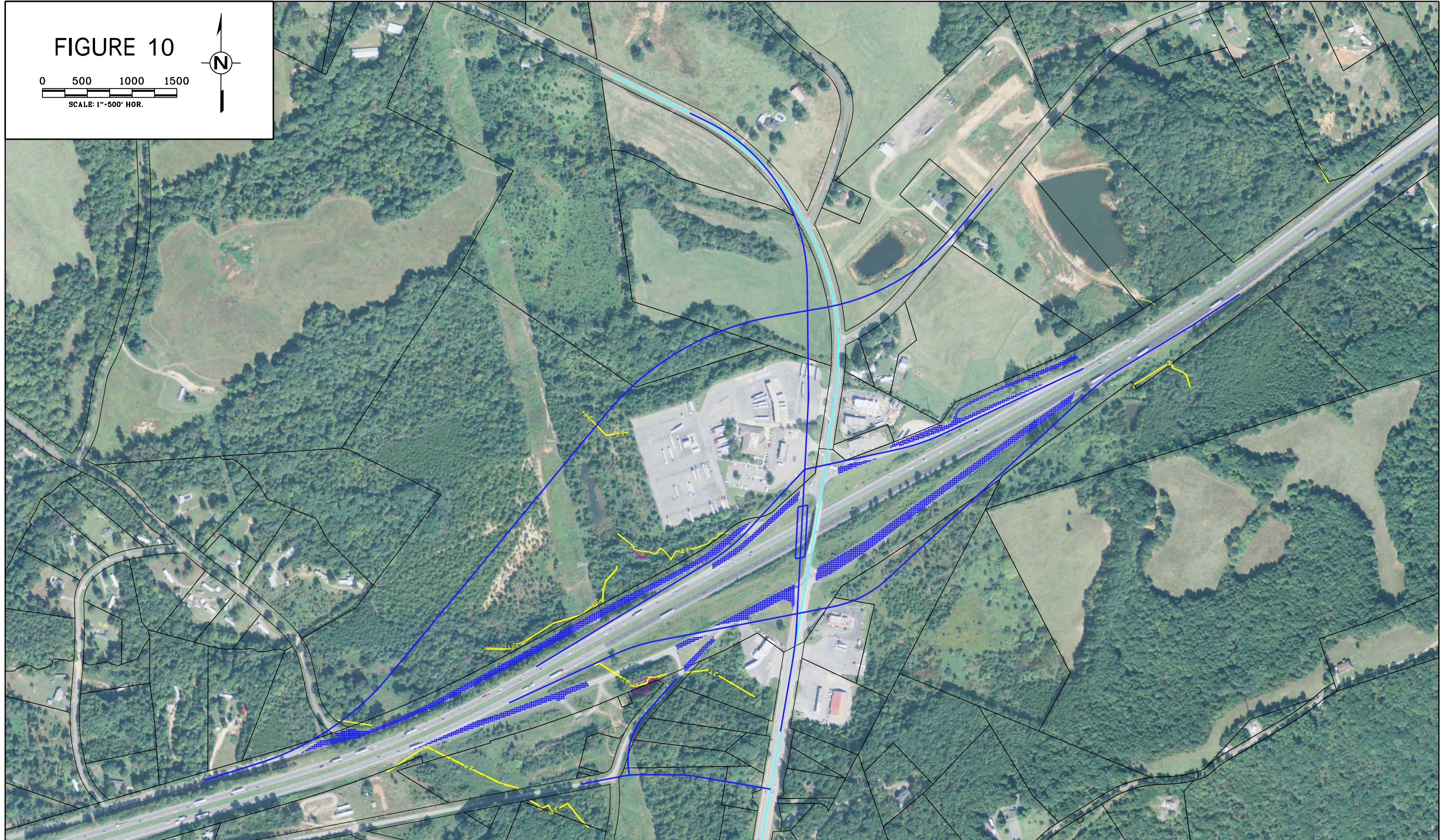
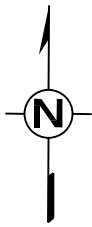
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-5/198 (N Mountain St) EXIT 102  
ALTERNATE D

- NOTES:
- Intersection Separation Requirements (750') have not been met. 725' between North Ramp and Frontage road. South Ramp and Frontage road meet this requirement.
  - 3 Stream crossings required.
  - Southeast Quadrant improvements and Crossroad Realignment will result in 2 business relocations.



FIGURE 10

0 500 1000 1500  
SCALE: 1"=500' HOR.



- Alternate 5 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-5/198 (N Mountain St) EXIT 102  
ALTERNATE E

NOTES:  
- Intersection Separation Requirements (750') have been met.  
- 1 Stream crossing required.



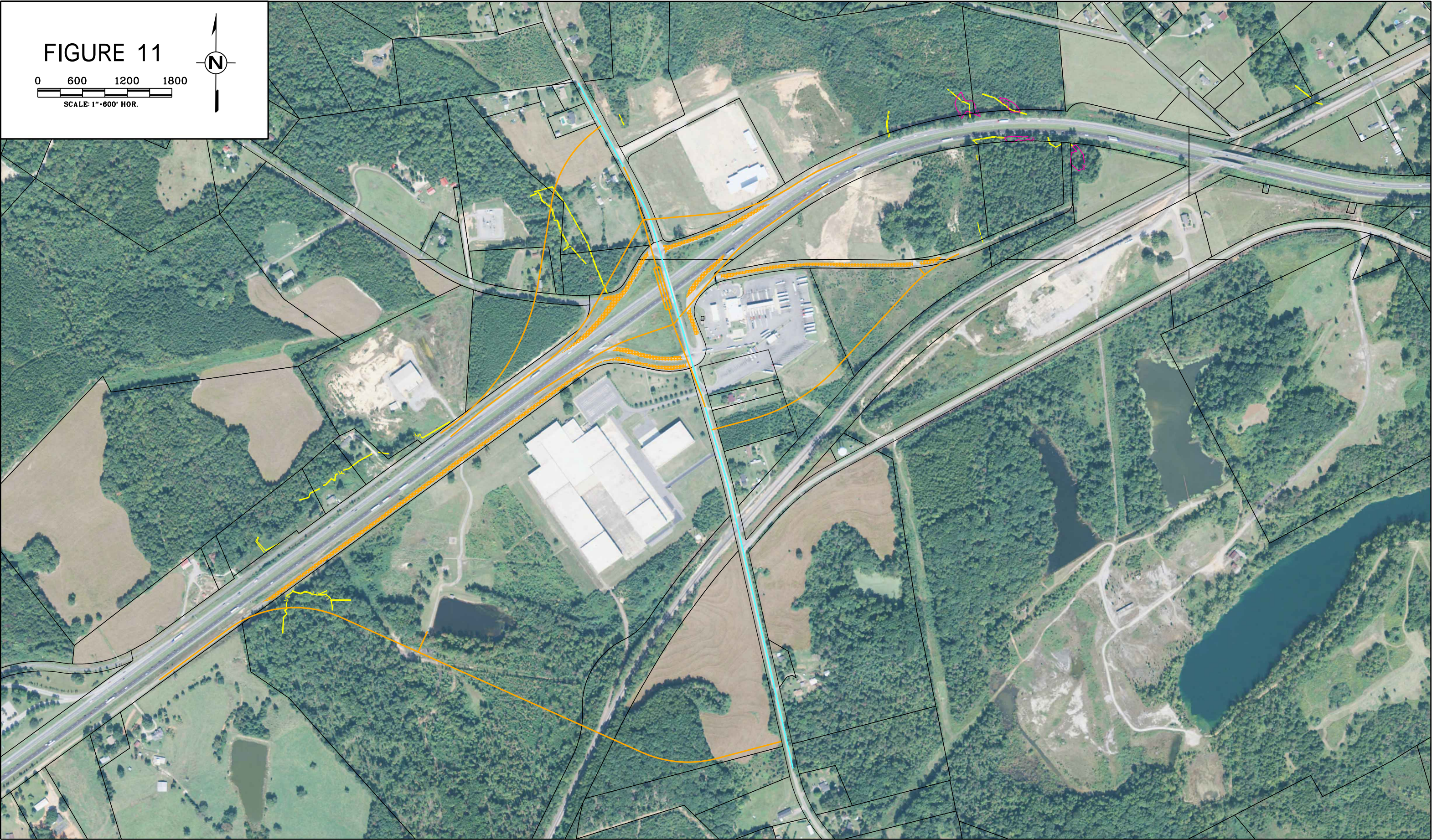
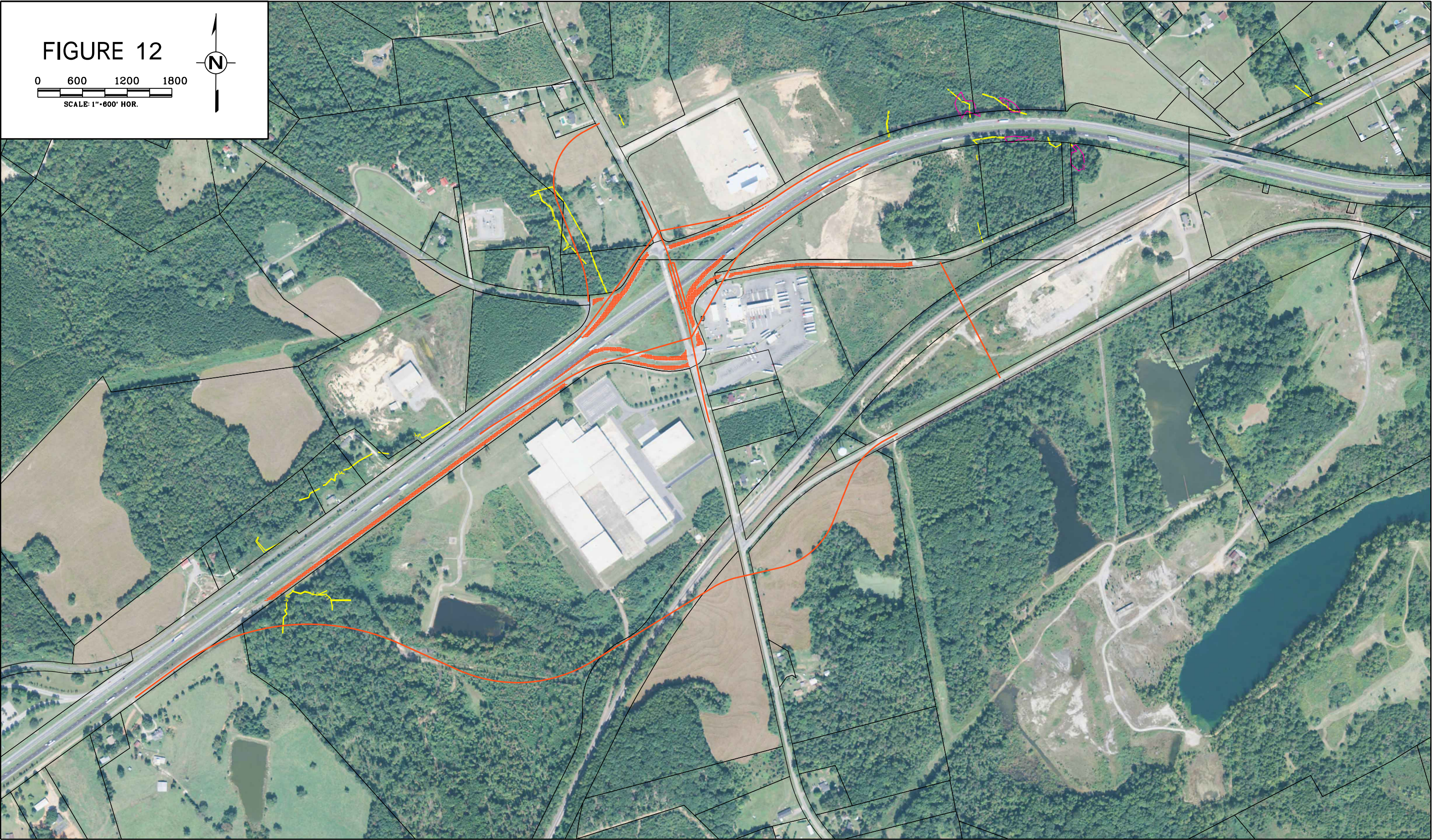
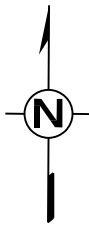
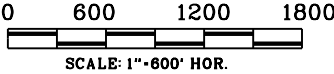




FIGURE 12



- Alternate 2 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

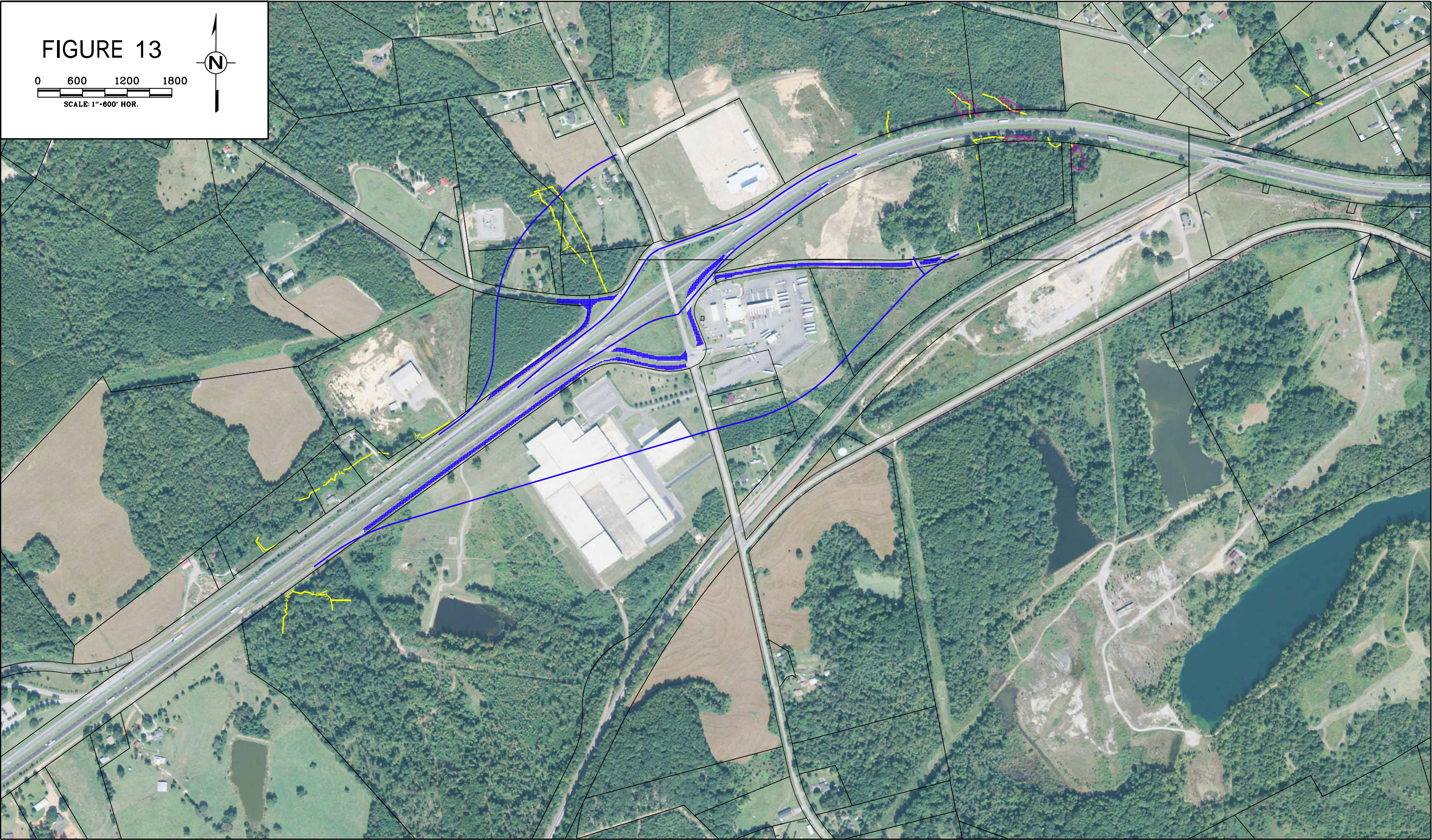
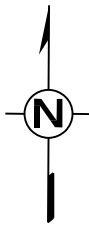
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-99 (Tribal Rd) EXIT 104  
ALTERNATE B

NOTES:  
- Intersection Separation Requirements (750') have been met.  
- 4 Stream crossings required.  
- Alternate 2 requires two Railroad Crossings



FIGURE 13

0 600 1200 1800  
SCALE: 1"=600' HOR.



- Alternate 3 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

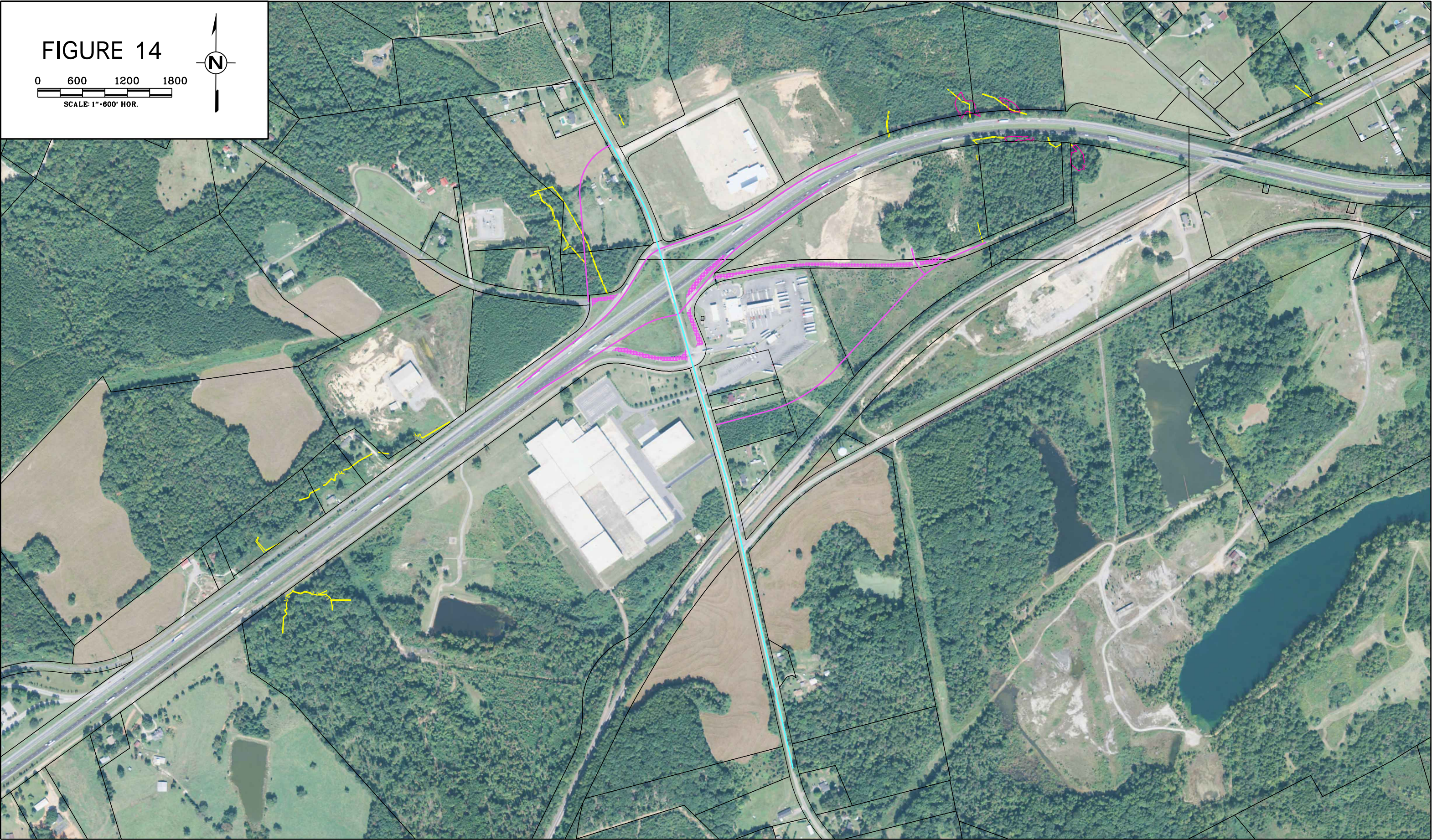
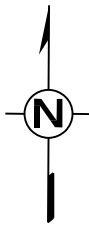
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-99 (Tribal Rd) EXIT 104  
ALTERNATE C

NOTES:  
- Intersection Separation Requirements (750') have been met.  
- 2 Stream crossings required.



FIGURE 14

0 600 1200 1800  
SCALE: 1"=600' HOR.



- Alternate 4 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

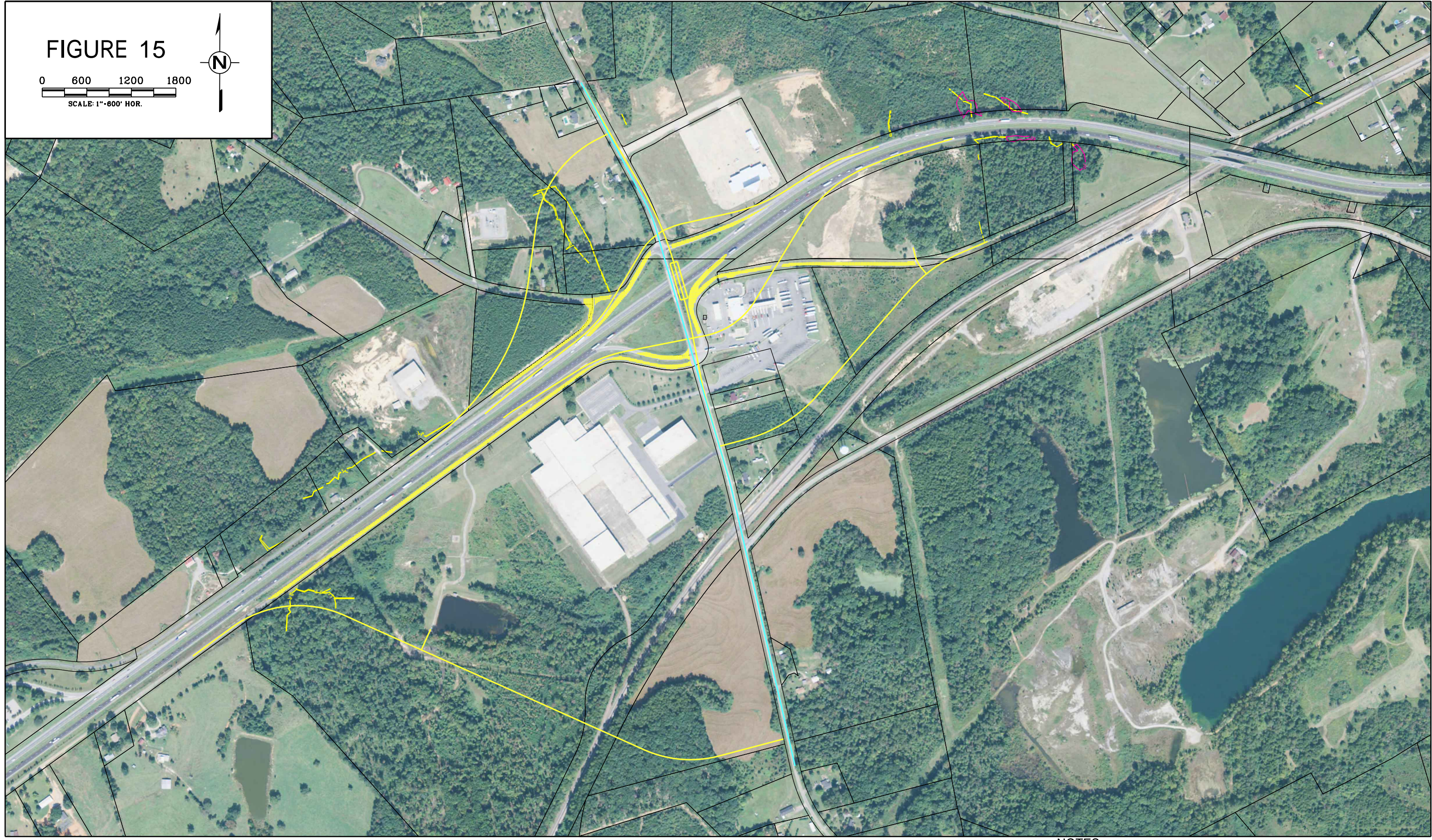
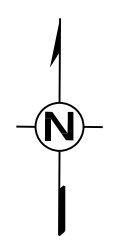
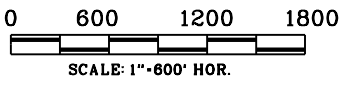
Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-99 (Tribal Rd) EXIT 104  
ALTERNATE D

NOTES:  
- Intersection Separation Requirements (750') have not been met.  
North Frontage road meets requirement  
335' between South Ramp and Southwest Frontage road  
Southeast Frontage road meets requirement  
- 3 Stream crossings required.



FIGURE 15



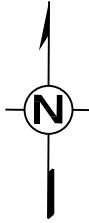
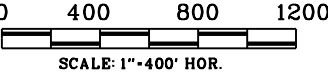
- Alternate 5 Alignments
  - Proposed Bridge
  - Pavement Removal
  - Jurisdictional Streams
  - Jurisdictional Wetlands
  - Existing ROW or Property Line
- Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & S-11-99 (Tribal Rd) EXIT 104  
ALTERNATE E

- NOTES:
- Intersection Separation Requirements (750') have been met.
  - 4 Stream crossings required.
  - Alternate 5 requires New Bridge over I-85.
  - South Frontage Road will require a Railroad crossing.
  - The Northbound Entrance ramp improvements will result in 1 business displacement.
  - The Northwest Qaudrant improvements will result in 1 residential displacement.



FIGURE 16



- Alternate 1 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

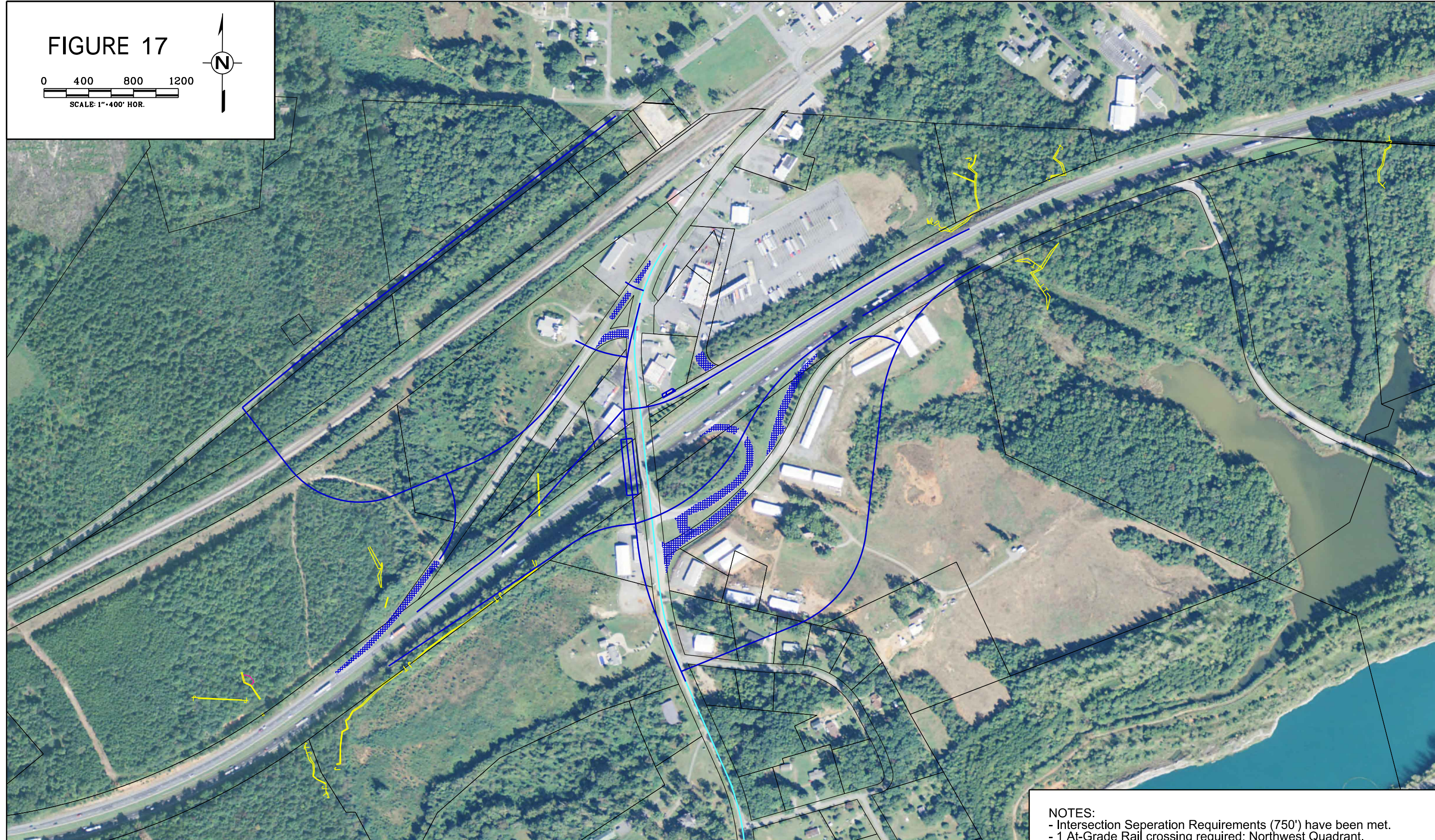
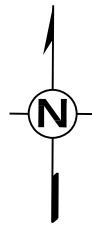
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & US 29 EXIT 106  
ALTERNATE A

- NOTES:
- Intersection Separation Requirements (750') have been met.
  - Southeast Quadrant improvements will result in 2 residential displacements and disturb 2 businesses.
  - Northwest Quadrant improvements will result 2 business displacements.
  - 2 Stream crossings required.



FIGURE 17

0 400 800 1200  
SCALE: 1"=400' HOR.



I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & US 29 EXIT 106  
ALTERNATE B

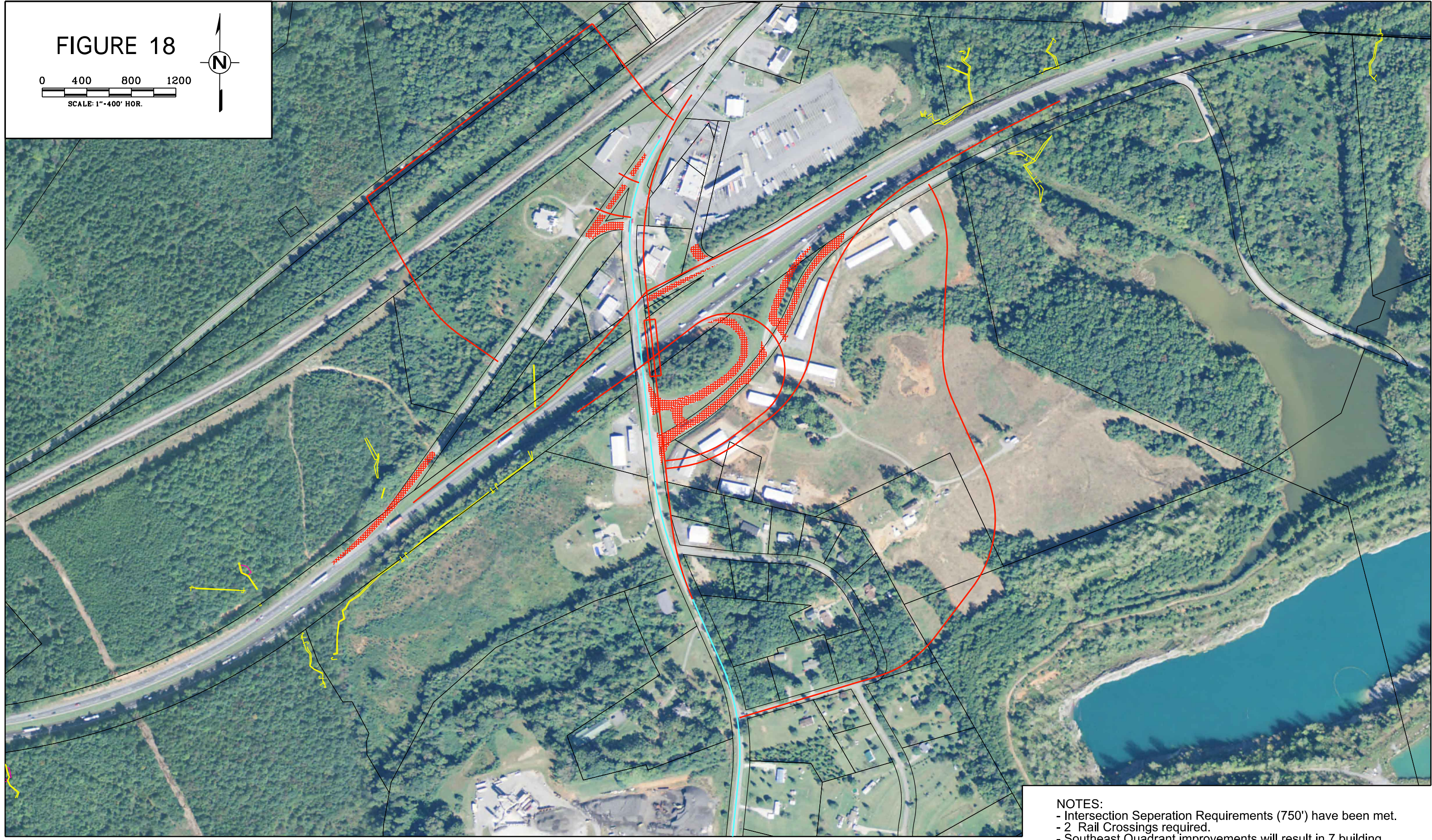
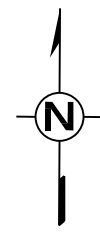
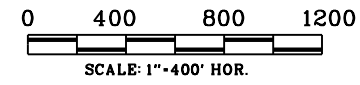
NOTES:

- Intersection Separation Requirements (750') have been met.
- 1 At-Grade Rail crossing required; Northwest Quadrant.
- Southeast Quadrant improvements will result in 2 residential displacements and 2 business displacement.
- Northwest Quadrant improvements will result in 1 business displacement.
- Southwest Quadrant improvements will result in 1 business displacement.
- 2 Stream crossings required.

- Alternate 2 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line



FIGURE 18



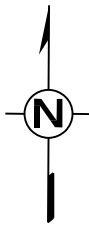
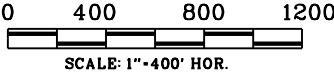
- |  |                               |  |                    |
|--|-------------------------------|--|--------------------|
|  | Alternate 3 Alignments        |  | Existing Alignment |
|  | Proposed Bridge               |  |                    |
|  | Pavement Removal              |  |                    |
|  | Jurisdictional Streams        |  |                    |
|  | Jurisdictional Wetlands       |  |                    |
|  | Existing ROW or Property Line |  |                    |

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & US 29 EXIT 106  
ALTERNATE C

- NOTES:
- Intersection Separation Requirements (750') have been met.
  - 2 Rail Crossings required.
  - Southeast Quadrant improvements will result in 7 building displacements.
  - Northeast & Northwest Quadrant improvements will result in 1 business displacement each.
  - 2 Stream crossings required.



FIGURE 19



- Alternate 4 Alignments
- Proposed Bridge
- Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

Existing Alignment

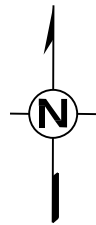
I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & US 29 EXIT 106  
ALTERNATE D

- NOTES:
- Intersection Separation Requirements (750') have not been met. 350' between North Ramp and Existing Frontage road. South Frontage Road realignment meets the 750' requirement.
  - Northwest Quadrant improvements will result in 1 business displacement.
  - 2 Stream crossings required.



FIGURE 20

0 400 800 1200  
SCALE: 1"=400' HOR.



- Alternate 5 Alignments
- ▬ Proposed Bridge
- ▨ Pavement Removal
- Jurisdictional Streams
- Jurisdictional Wetlands
- Existing ROW or Property Line

— Existing Alignment

I-85 WIDENING  
CHEROKEE COUNTY, SC  
I-85 & US 29 EXIT 106  
ALTERNATE E

- NOTES:
- Intersection Separation Requirements (750') have been met.
  - Northwest Quadrant improvements will result in 1 business displacement.
  - Southwest Quadrant improvements will result in 1 business displacement.
  - Southeast Quadrant improvements will result in 3 residential displacements.
  - 2 Stream crossings required.