

Chapter 5

Routes *(inventoried, coinciding, high order, dummy)*



8-Digit Code (Review)

The 8-digit code specifies state-maintained primary and secondary routes, local routes, and political boundaries (municipal, county, and state).

1-0-0-00040			
First Digit	Second Digit	Third Digit	Last 5 Digits
<u>Route/Boundary Type</u>	<u>Special Route Type</u>	<u>Couplet Direction</u>	<u>Route/Boundary #</u>
1 - Interstate	0 - None	0 - Not a couplet	This is the route/boundary number (left padded with zeros).
2 - US Route	1 - Alternate	3 - Northbound	
3 - NC Route	2 - Bypass	4 - Southbound	
4 - Secondary Route	3 - North	5 - Eastbound	
5 - City Street (LCL)	4 - South	6 - Westbound	
6 - Non-System	5 - East	8 - Clockwise	
7 - County Boundary	6 - West	9 - Counterclockwise	
8 - State Boundary	7 - Special (spur, connector, etc.)		
9 - Municipal Boundary	8 - Truck		
	9 - Business		

8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

What type of feature is described by the 8-digit code of 80000006 ?

What type of route is defined by the 8-digit code of 40001010 ?

What is the 8-digit code for US 1 Alternate?

8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

30000087

What type of feature is described by the 8-digit code of 80000006 ?

What type of route is defined by the 8-digit code of 40001010 ?

What is the 8-digit code for US 1 Alternate?

8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

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state line (boundary)

What type of route is defined by the 8-digit code of 40001010 ?

What is the 8-digit code for US 1 Alternate?

8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

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What type of feature is described by the 8-digit code of 80000006 ?

state line (boundary)

What type of route is defined by the 8-digit code of 40001010 ?

secondary route

What is the 8-digit code for US 1 Alternate?

8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

30000087

What type of feature is described by the 8-digit code of 80000006 ?

state line (boundary)

What type of route is defined by the 8-digit code of 40001010 ?

secondary route

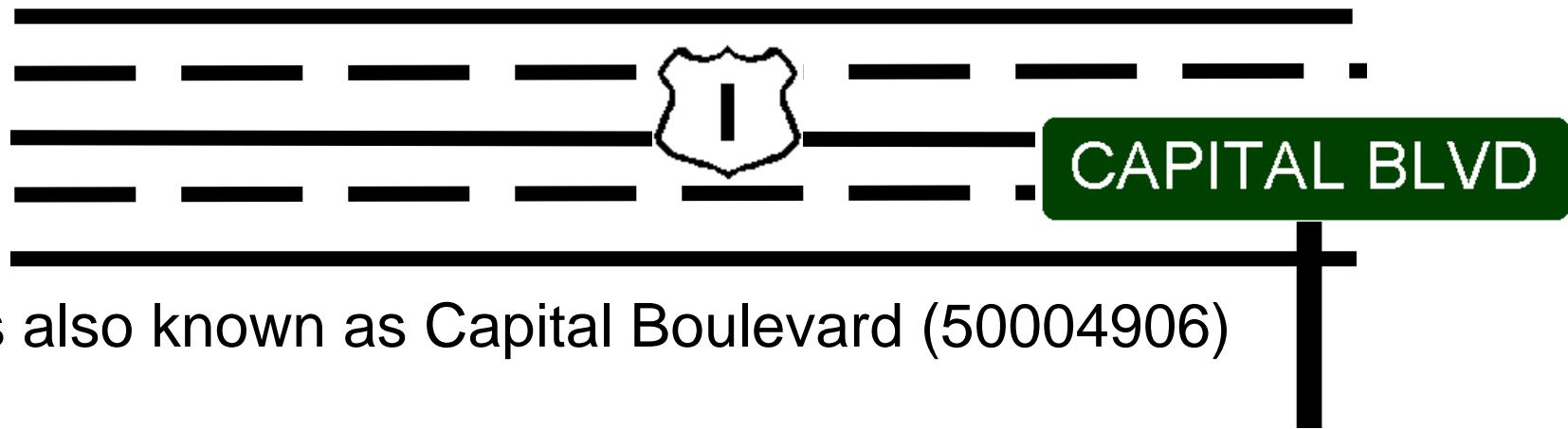
What is the 8-digit code for US 1 Alternate?

21000001

Coinciding Routes

Routes that follow the same section of pavement as other routes:

US 1 (20000001) in Raleigh ...



.....is also known as Capital Boulevard (50004906)

Therefore, Capital Boulevard is a coinciding route with US 1, AND US 1 is a coinciding route with Capital Boulevard.

Coinciding Routes (cont.)

- Many routes are designated by both a state route number and a local name.
- **Always** check for coinciding routes.
- The analyst can get the 8-digit code for the local route name from maps, local knowledge, the SR Name Lookup website, or the “Feature Names and Secondary Routes” component of TEAAS.
- It is imperative in crash analyses to know if the state route number has a local name attached to it, or vice-versa.
- ***KNOW YOUR LOCATION!!!!***

Coinciding Routes Examples

Local Route Name - Primary Route Number
(Capital Boulevard - US 1)

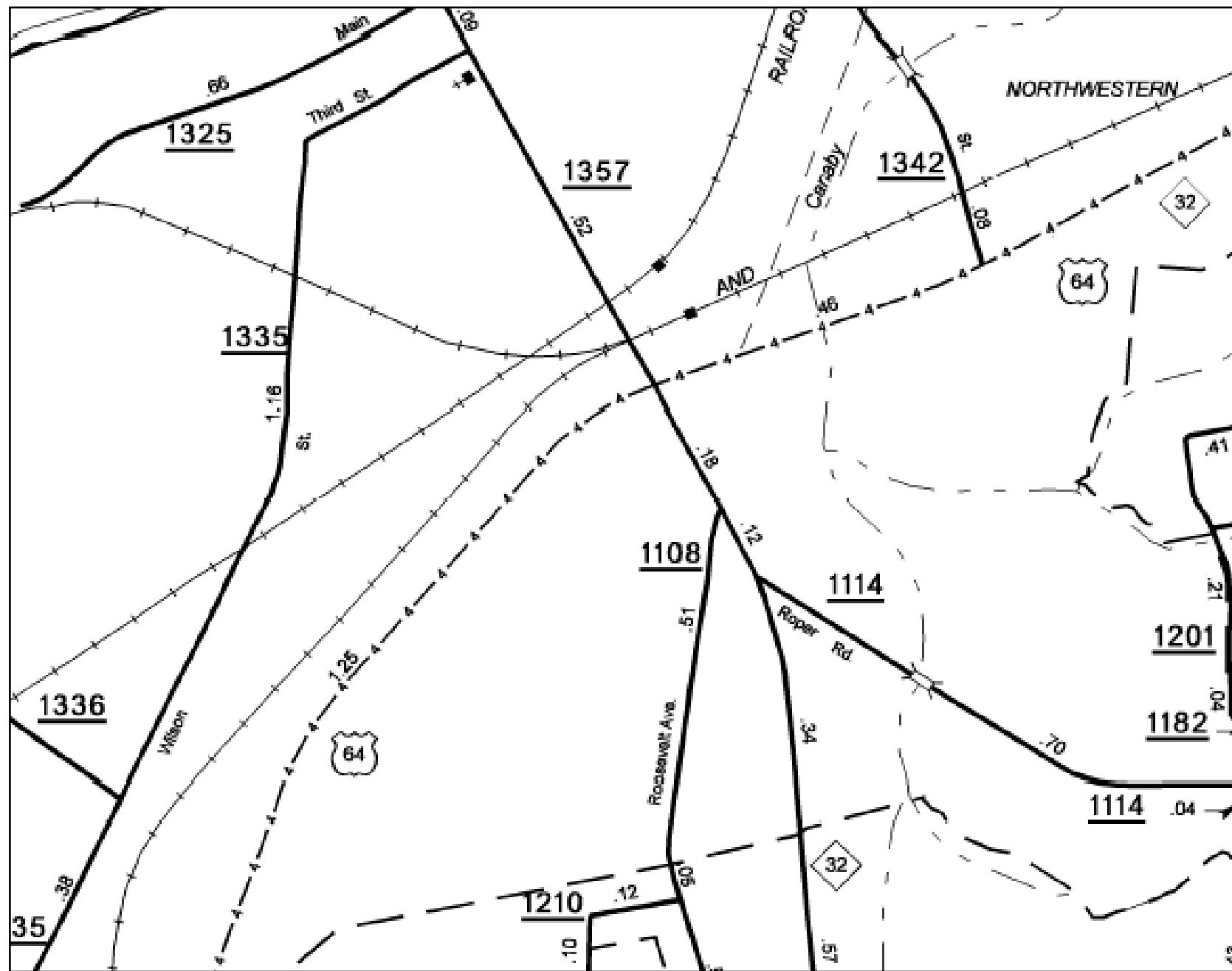
Local Route Name - Secondary Route Number
(Third Street - SR 1335)

Possible to have more than two coinciding routes:

Local Route Name - Multiple Route Numbers
(Capital Boulevard - US 1 - US 401)

KNOW YOUR LOCATION!!!!

Coinciding Routes Exercise



Coinciding Routes Exercise

What is a coinciding route of Roosevelt Ave ?

What is a coinciding route of SR 1335 ?

What is a coinciding route of parts of NC 32 ?

Coinciding Routes Exercise

What is a coinciding route of Roosevelt Ave ?

SR 1108

What is a coinciding route of SR 1335 ?

What is a coinciding route of parts of NC 32 ?

Coinciding Routes Exercise

What is a coinciding route of Roosevelt Ave ?

SR 1108

What is a coinciding route of SR 1335 ?

Wilson Street -OR- Third Street

What is a coinciding route of parts of NC 32 ?

Coinciding Routes Exercise

What is a coinciding route of Roosevelt Ave ?

SR 1108

What is a coinciding route of SR 1335 ?

Wilson Street -OR- Third Street

What is a coinciding route of parts of NC 32 ?

US 64

High Order Routes

- In coinciding route situations, one of the routes is considered to be the highest order route (HOR)
- In most cases, the lower the 8-digit code, the higher its order (exceptions may be found where routes have been re-numbered or re-routed)
- Used by the CRASH database to give each crash a HOR milepost (if the coinciding routes are mileposted)
- Crashes are not always reported using the HOR
- Crashes are always mileposted using the HOR (if the coinciding routes are mileposted)

High Order Route Examples

I 40 > I 440 > US 1 > NC 49 > SR 1001

Since:

10000040 < 10000440 < 20000001 <
30000049 < 40001001

NOTE! Exceptions may be found where routes have been re-numbered or re-routed.

High Order Route Exercise

What is the highest order route between coinciding routes Roosevelt Avenue and SR 1108 ?

What is the highest order route between coinciding routes NC 45 and NC 32 ?

What is the highest order route between coinciding routes US 29 Business and US 64 ?

High Order Route Exercise

What is the highest order route between coinciding routes Roosevelt Avenue and SR 1108 ?

SR 1108 (40001108 < 50026431)

What is the highest order route between coinciding routes NC 45 and NC 32 ?

What is the highest order route between coinciding routes US 29 Business and US 64 ?

High Order Route Exercise

What is the highest order route between coinciding routes Roosevelt Avenue and SR 1108 ?

SR 1108 (40001108 < 50026431)

What is the highest order route between coinciding routes NC 45 and NC 32 ?

NC 32 (30000032 < 30000045)

What is the highest order route between coinciding routes US 29 Business and US 64 ?

High Order Route Exercise

What is the highest order route between coinciding routes Roosevelt Avenue and SR 1108 ?

SR 1108 (40001108 < 50026431)

What is the highest order route between coinciding routes NC 45 and NC 32 ?

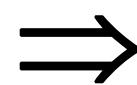
NC 32 (30000032 < 30000045)

What is the highest order route between coinciding routes US 29 Business and US 64 ?

US 64 (20000064 < 29000029)

High Order Route Segments

- Used to determine the Highest Order Route (HOR) on coinciding routes
- ***Review: In most coinciding route situations, the highest order route is the route that has the lowest 8-digit code along that segment (exceptions may be found where routes have been re-numbered or re-routed)***
- A particular road can have several different segments with different high order routes
- Access the highest order segments by selecting the following:

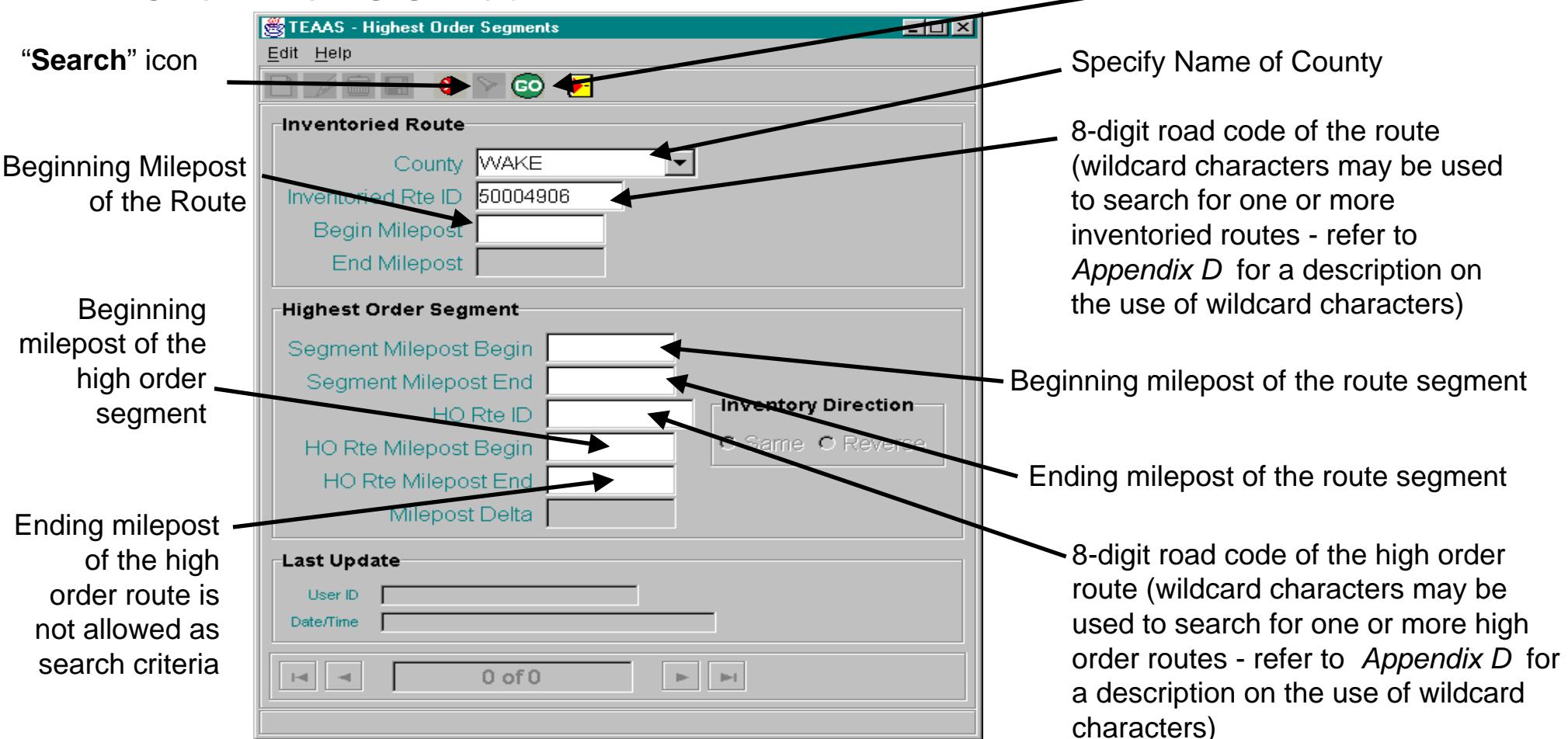


Highest Order Segments

High Order Route Segments (cont.)

To search for Highest Order Routes:

- Click the “Search” icon
- Enter the search criteria
- Leave any criteria blank if they are not part of the search
- Click the “GO” icon



High Order Route Segments (cont.)

- Click the “OK” button on the records retrieved dialog box to view the records retrieved
- If no records are returned, verify that the search criteria are correct
- A new search may be executed by adjusting the search criteria and clicking the “GO” icon
- TEAAS will display a maximum of 500 records for any given search (although more than 500 records may actually meet the search criteria)

High Order Route Segments Example 1

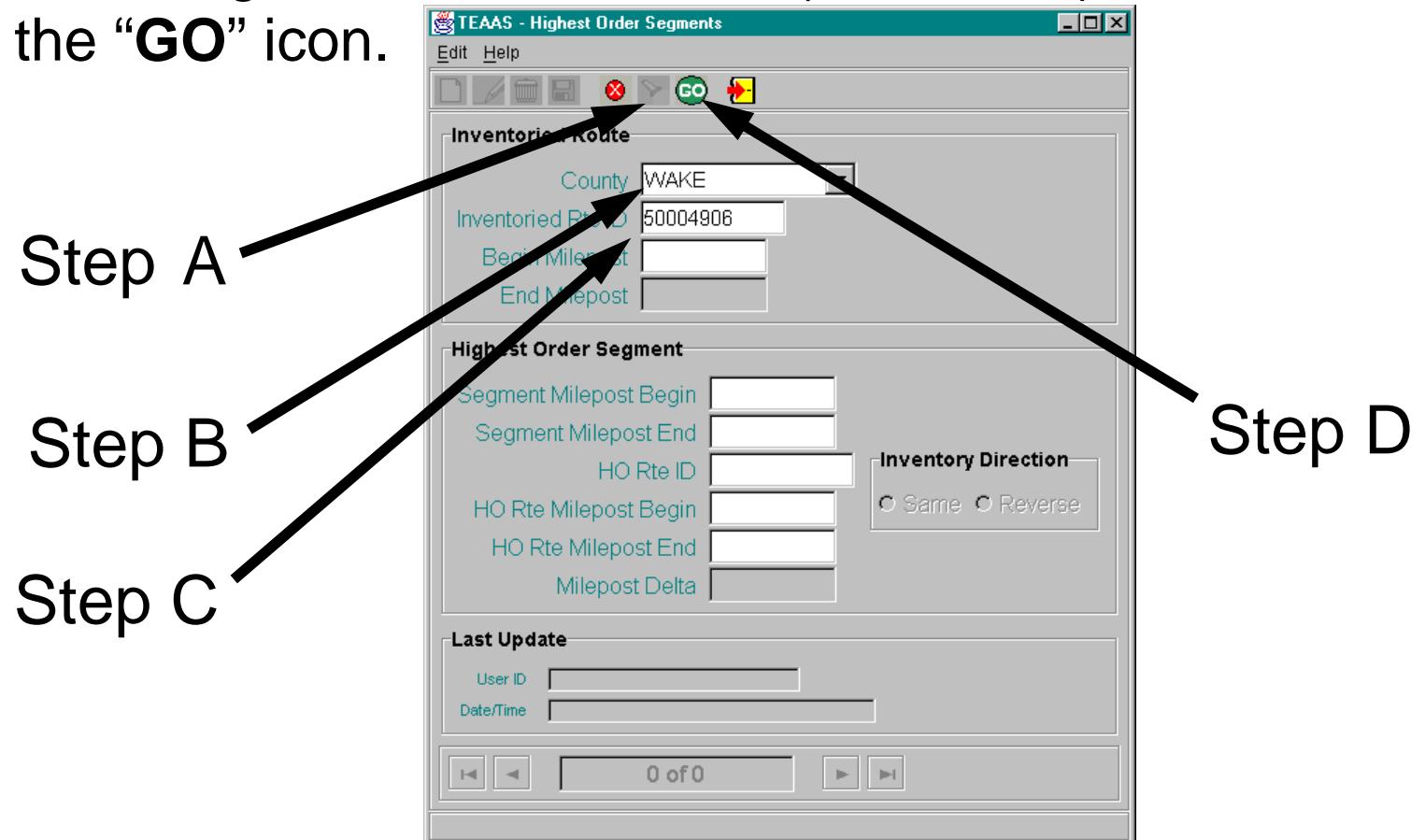
Suppose you wanted to find all high order routes coinciding with Capital Boulevard (50004906) in Wake County...

Step A: Click on the “Search” icon

Step B: Enter the county name (Wake)

Step C: Enter the 8-digit code for the route (50004906)

Step D: Click the “GO” icon.

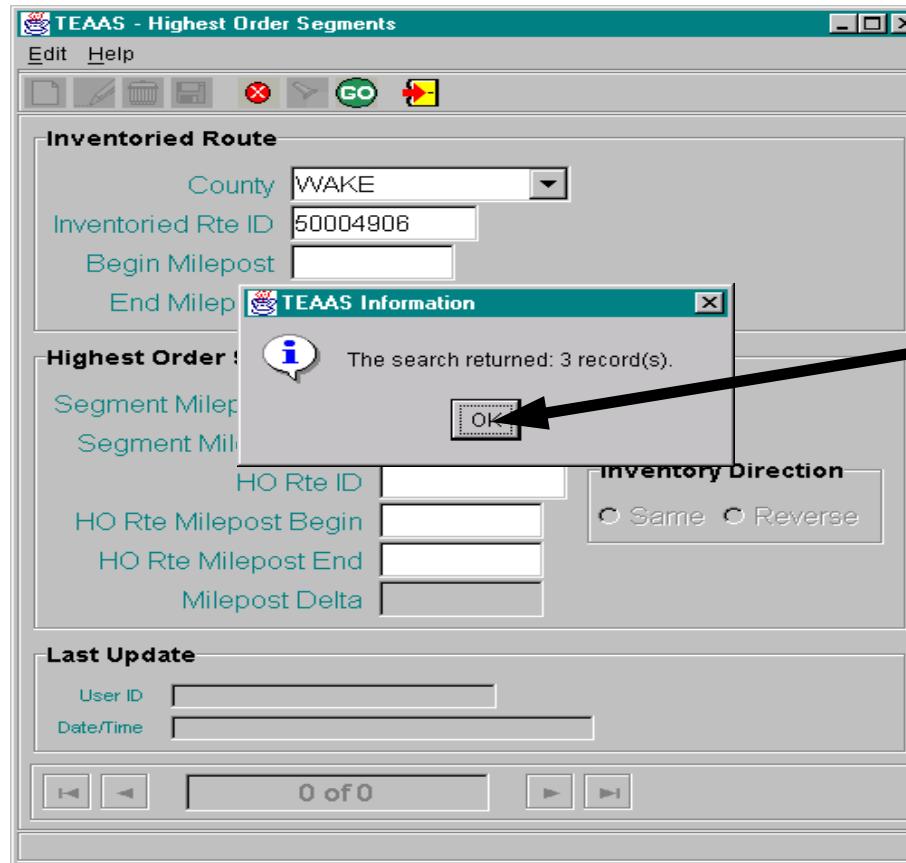


High Order Route Segments Example 1

You should get a dialog box that reads

“The search returned: 3 record(s)”

Step E: Click on the “OK” button and view the high order records



Step E

NOTE – If the dialog box reads “**The search returned: 0 record(s)**” it means that TEAAS could not find the route you entered in its list of high order routes (check your search criteria to verify that it was entered correctly).

High Order Route Segments Example 1

TEAAS - Highest Order Segments

Edit Help

Inventoried Route

County	WAKE
Inventoried Rte ID	50004906
Begin Milepost	0.0
End Milepost	16.010

Highest Order Segment

Segment Milepost Begin	0.0
Segment Milepost End	0.870
HO Rte ID	50004906
HO Rte Milepost Begin	0.0
HO Rte Milepost End	0.870
Milepost Delta	0.0

Last Update

User ID	TEAAS CONVERSION
Date/Time	28 September 1999 12:00 AM

Inventory Direction: Same Reverse

Beginning milepost for 50004906
Ending milepost for 50004906
Beginning milepost for this segment of 50004906
Ending milepost for this segment of 50004906
High order route ID for this segment of 50004906
Indicates whether the direction of the mileposting of the high order route matches the direction of the inventoried route for this segment
Beginning milepost for the high order route for this segment of 50004906
Ending milepost for the high order route for this segment of 50004906
Milepost delta (used to convert the milepost of crashes on a low order route to the milepost of the high order route)

1 of 3

High Order Route Segments Example 2

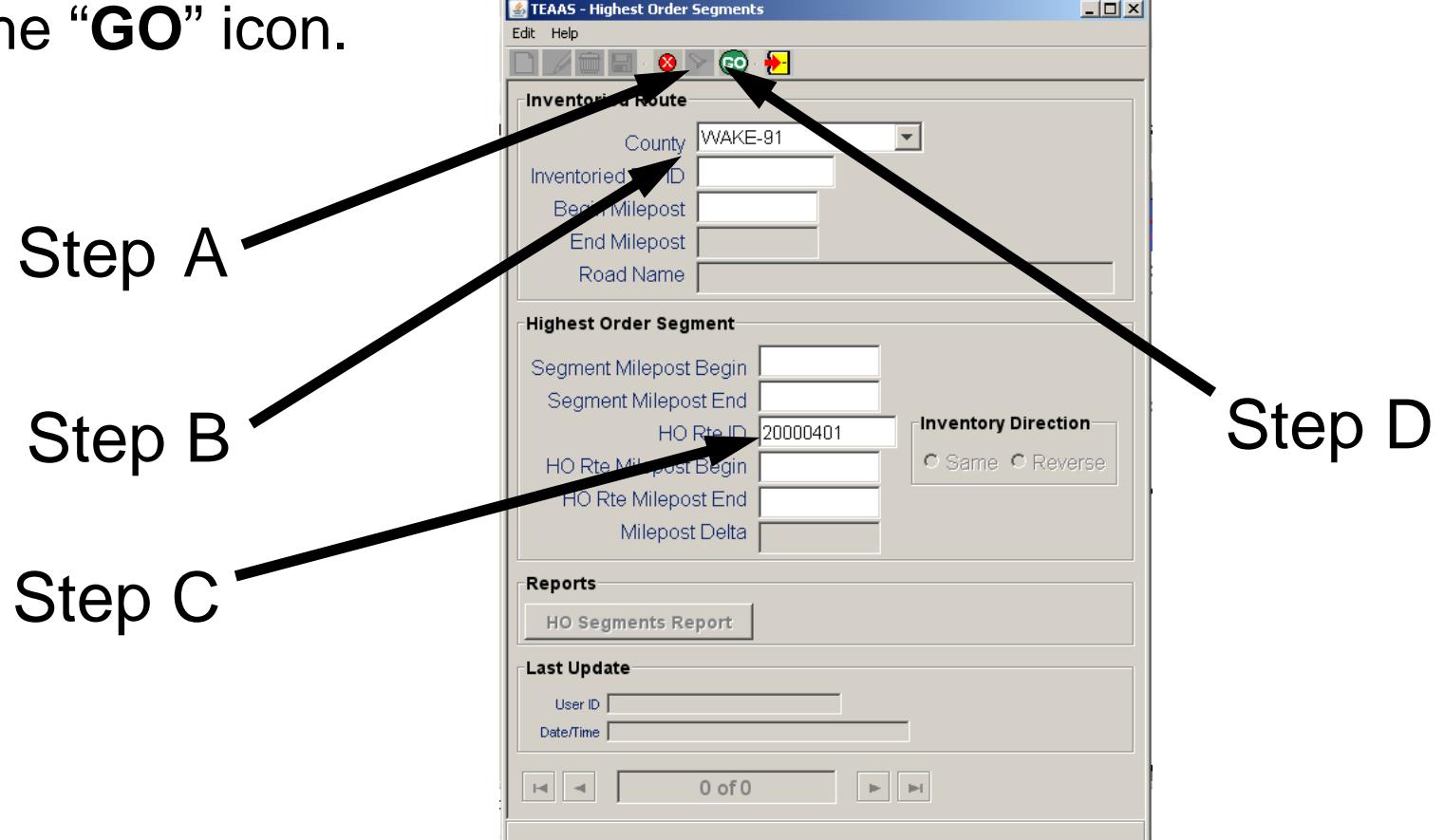
Suppose you wanted to find all lower order routes coinciding with US 401 (20000401) in Wake County...

Step A: Click on the “Search” icon

Step B: Enter the county name (Wake)

Step C: Enter the 8-digit code for the high order route (20000401)

Step D: Click the “GO” icon.

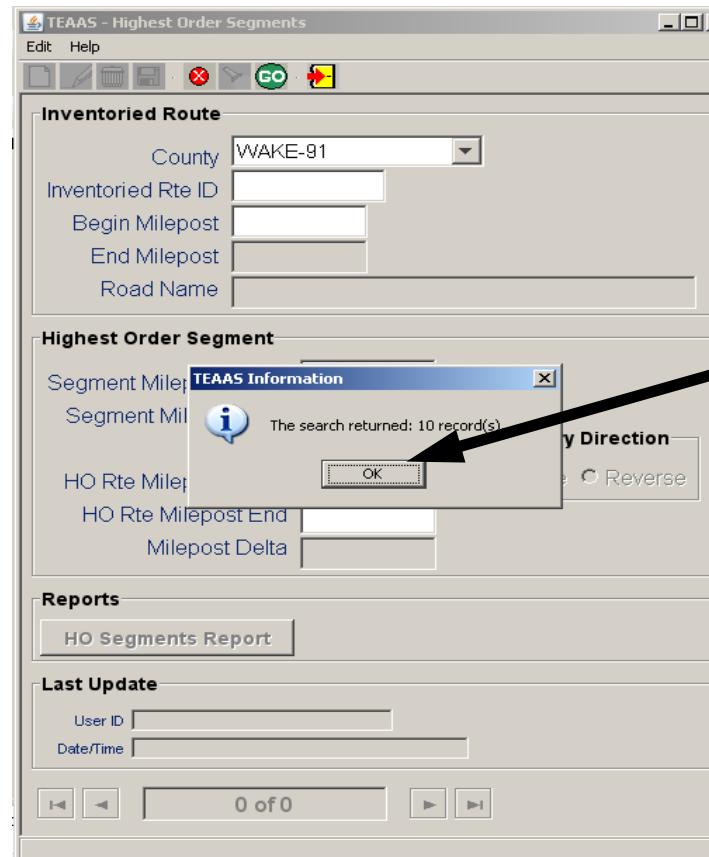


High Order Route Segments Example 2

You should get a dialog box that reads

“The search returned: 10 record(s)”

Step E: Click on the “OK” button and view the high order records

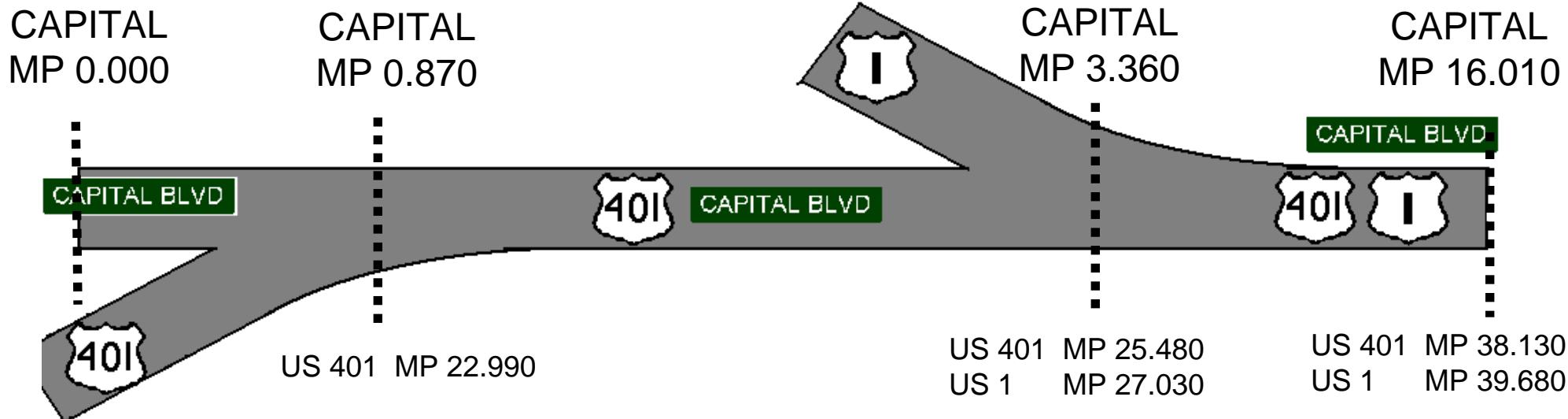


Step E

NOTE – If the dialog box reads **“The search returned: 0 record(s)”** it means that TEAAS could not find the route you entered in its list of high order routes (check your search criteria to verify that it was entered correctly).

High Order Route Segments Report (Visual Representation)

County	Inventoried Route ID		Begin Milepost	End Milepost		
WAKE	50004906		0.0	16.01		
Segment Begin MP	Segment End MP	Segment HO Route	HO Route Begin MP	HO Route End MP	Inventoried Direction	MP Delta
0.000	0.870	50004906	0.000	0.870	Same	0.000
0.870	3.360	20000401	22.990	25.480	Same	22.120
3.360	16.010	20000001	27.030	39.680	Same	23.670



Inventoried Routes

- Inventoried routes are routes that are currently recorded in TEAAS
- Access inventoried routes by selecting the following:

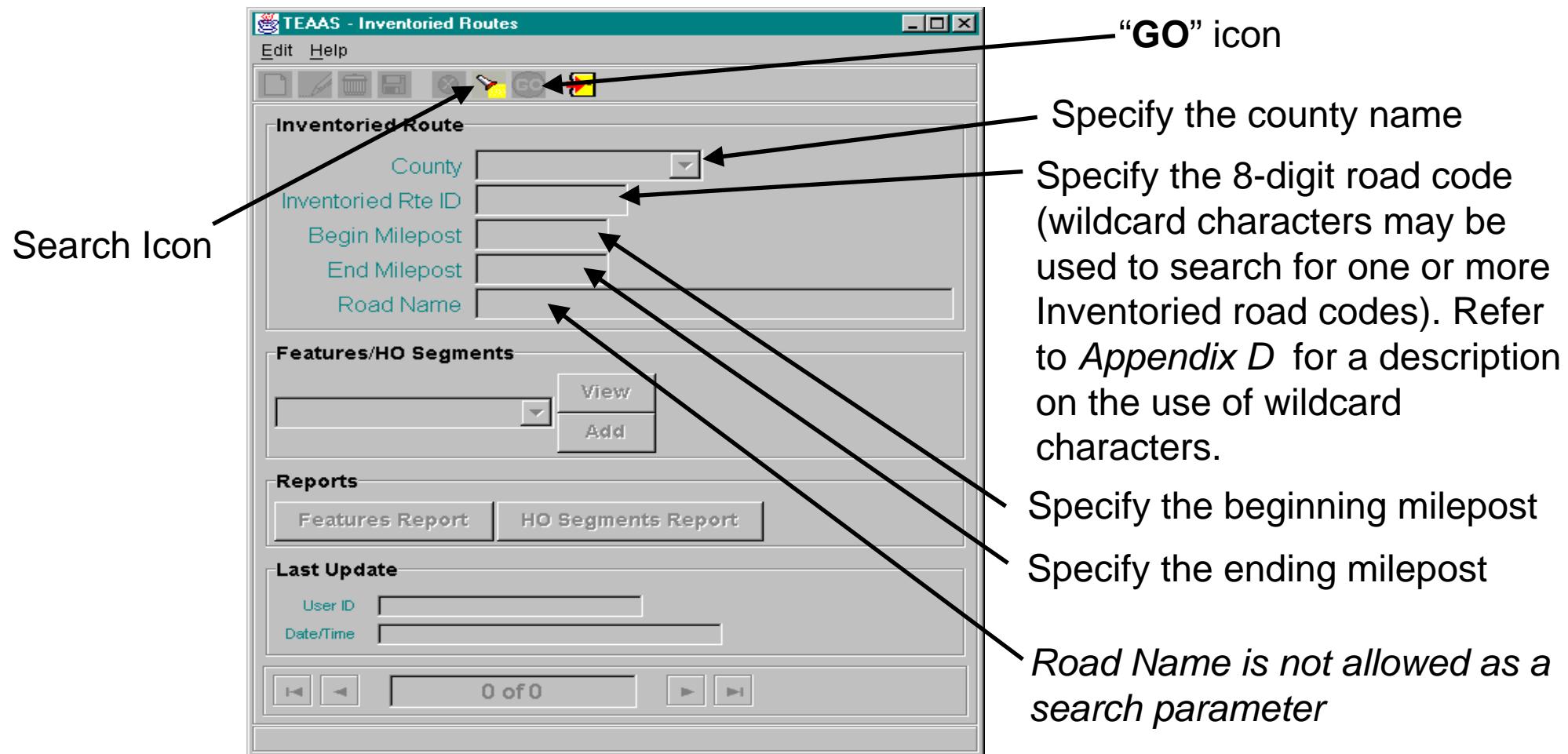


⇒ Inventoried Routes

Inventoried Routes (cont.)

To search for Inventoried Routes

- Click the “Search” icon
- Enter search criteria
- Leave any criteria blank if they are not part of the search
- Click the “GO” icon



Inventoried Routes (cont.)

- Click the “OK” button on the records retrieved dialog box to view the identified records
- If no records are returned, verify that the search criteria are correct
- A new search may be executed by adjusting the search criteria and clicking the “GO” icon
- TEAAS will display a maximum of 500 records for any given search (although more than 500 records may actually meet the search criteria)

Inventoried Routes Example

Suppose you wanted to find out if SR 1010 in Wake County is an inventoried route...

Step A: Click on the “**Search**” icon

Step B: Enter the county name (Wake)

Step C: Enter the 8-digit code for the route (40001010)

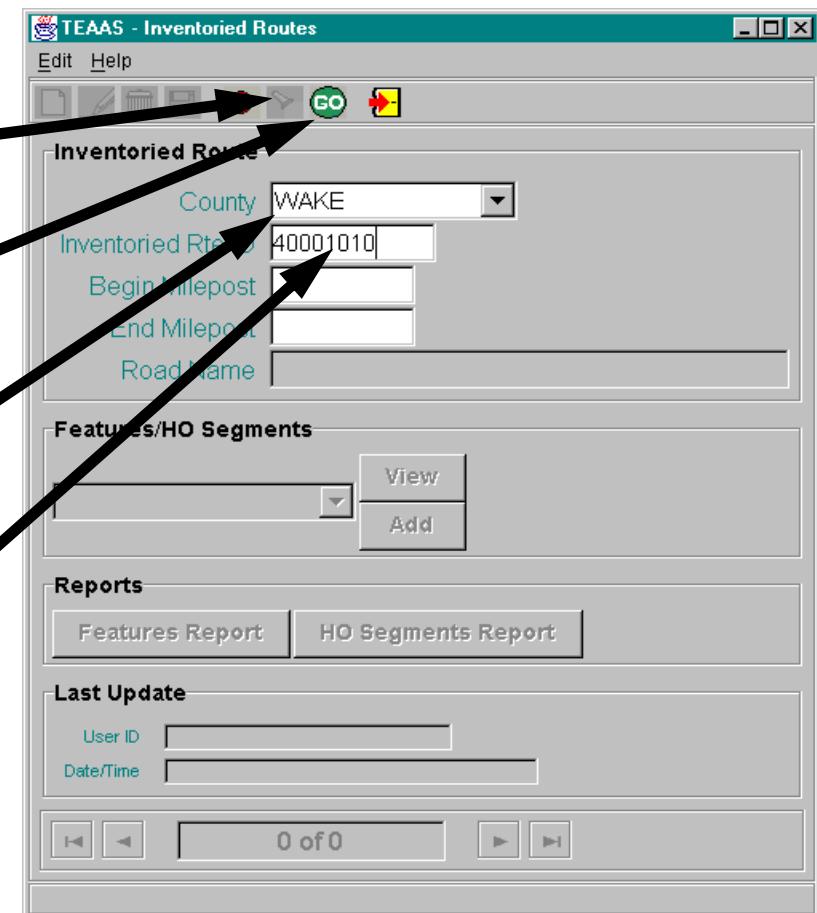
Step D: Click the “**GO**” icon.

Step A

Step D

Step B

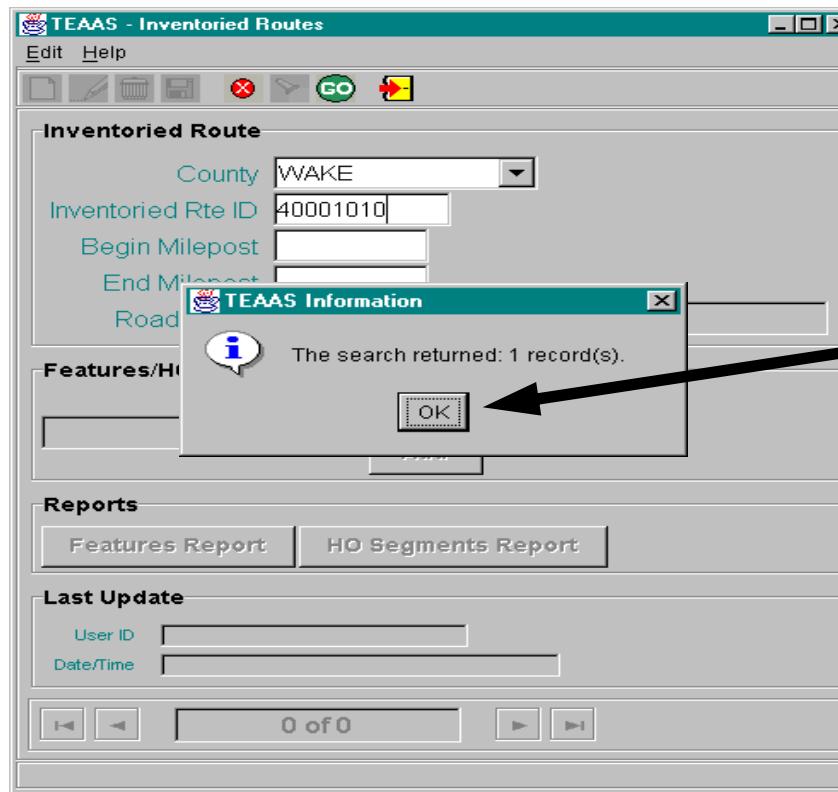
Step C



Inventoried Routes Example (cont.)

You should get a dialog box that reads
“The search returned: 1 record(s)”

Step E: Click on the “OK” button



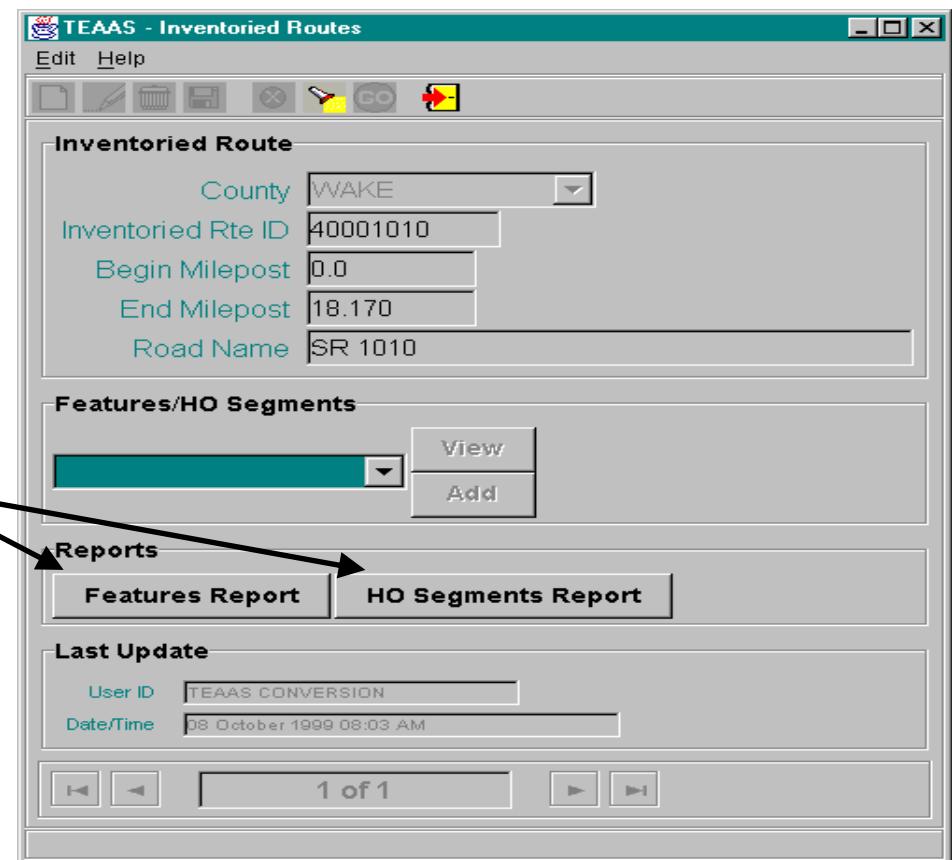
If the dialog box reads **“The search returned: 0 record(s)”** it means that TEAAS could not find the route you entered in its list of inventoried routes (check your search criteria to verify that it was entered correctly).

Inventoried Routes Example (cont.)

- Records show the county, 8-digit code (inventoried route ID), the beginning and ending mileposts, and the preferred text road name for all inventoried routes that met the specified criteria
- Records do not necessarily have mileposted features

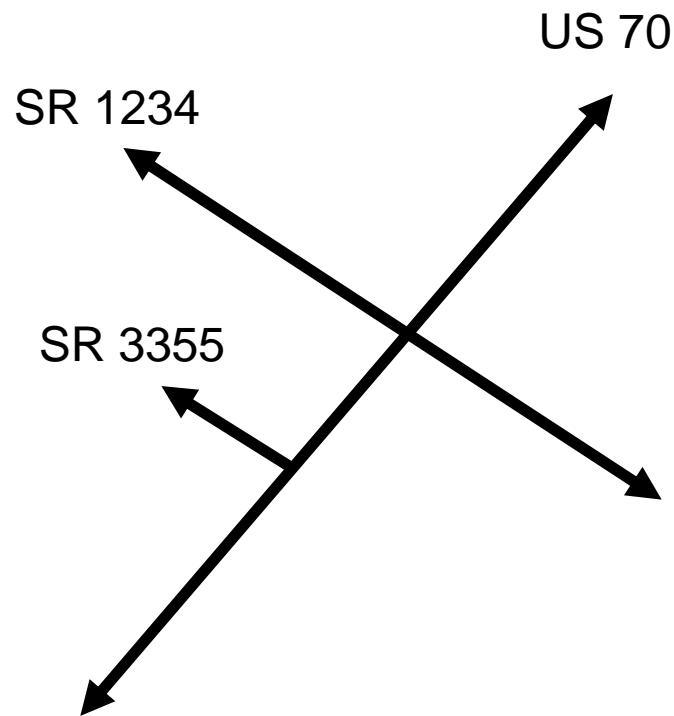
- Possible additional data:
 - Features Report
 - HO Segments Report

Any available additional data will be in the Features Report and/or the High Order (HO) Segments Report

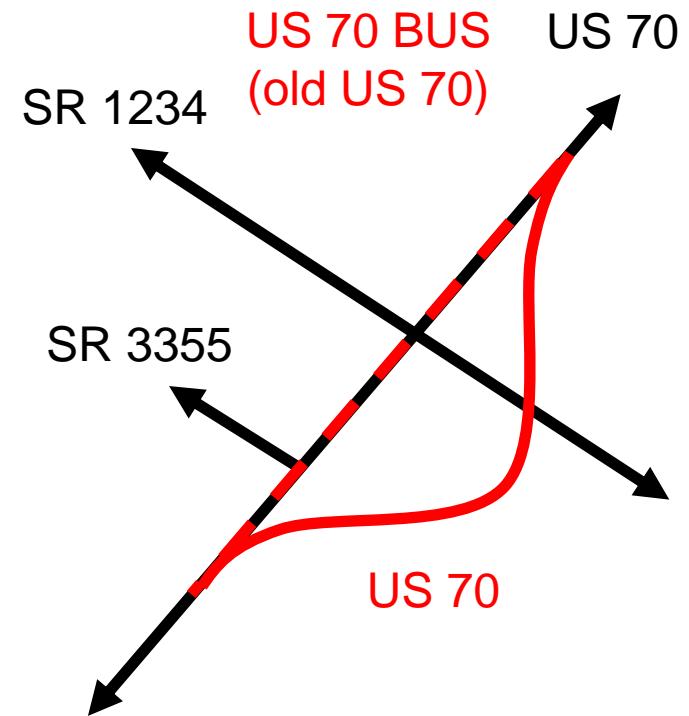


Route Changes

BEFORE:



AFTER:



Inventoried Routes:

US 70 (HO = US 70)

Inventoried Routes:

US 70 (HO = US 70)

US 70 BUS (HO = US 70 BUS)

US 70 (HO = US 70 BUS)

Dummy Route

- Interstate 1 (10000001)
- Will not identify any crashes since the route does not exist
- All crashes (and features if a strip study) will need to be added
- Primarily used for studies that cross county lines or for a summary report of identified crashes