

8/17/99

T.I.P.: U-4008

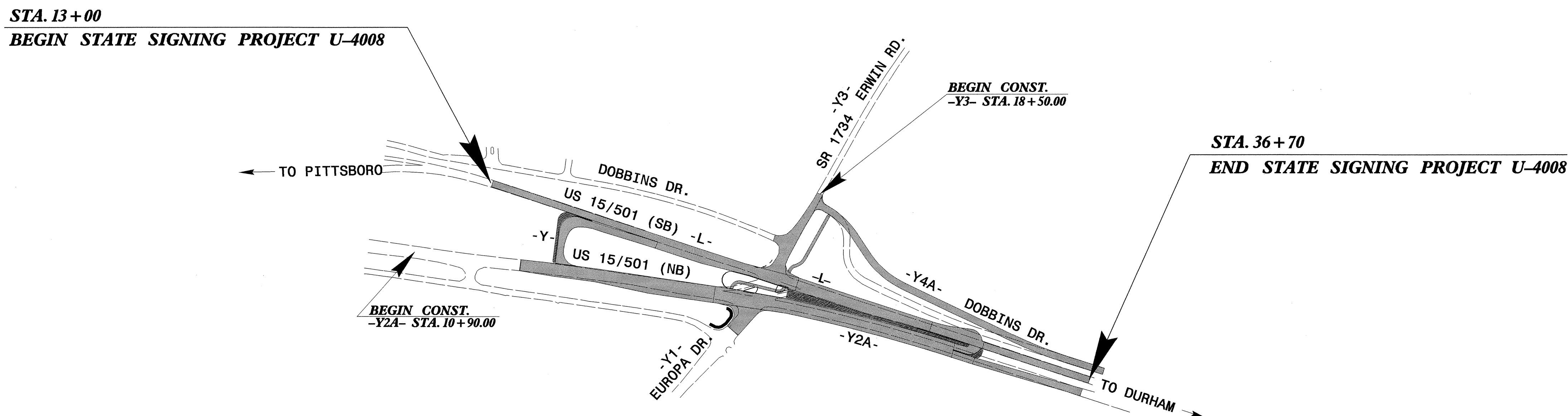
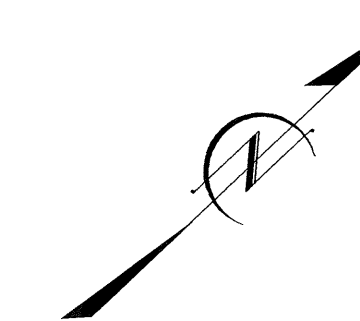
CONTRACT: C200971

TIP NO.	SHEET NO.
U-4008	SIGN-1

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
ORANGE COUNTY

LOCATION: CHAPEL HILL - US 15-501 AT ERWIN RD AND EUROPA DRIVE



INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	NOTES
SIGN-3	E SHEETS
SIGN-4 and 5	STRUCTURE LINE DRAWINGS
SIGN-6 and 7	EXISTING SIGNING PLANS
SIGN-8 and 9	PROPOSED SIGNING PLANS

SUMMARY OF QUANTITIES

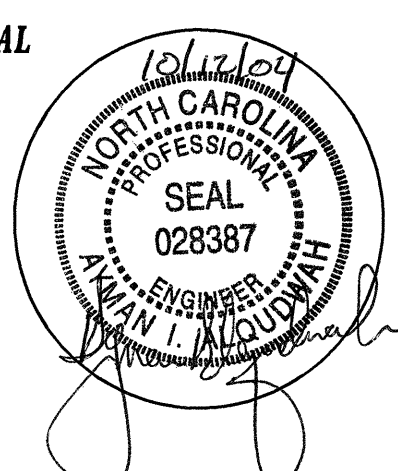
ITEM NO.	DESC. NO.	SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4072000000	903		SUPPORTS, 3 LB STEEL U-CHANNEL	1,085	L.F.
4096000000	904		SIGN ERECTION, TYPE D	5	EA.
4102000000	904		SIGN ERECTION, TYPE E	28	EA.
4129000000	906		RELOCATE SIGN, TYPE D	5	EA.
4129000000	906		RELOCATE SIGN, TYPE E	4	EA.
4155000000	907		DISPOSAL OF SIGN SYSTEM, U-CHANNEL	44	EA.
4192000000	907		DISPOSAL OF SUPPORT, U-CHANNEL	4	EA.
4082200000	SP		OVERHEAD SIGN ASSEMBLY AT STA 19+50	1	L.S.
4082200000	SP		OVERHEAD SIGN ASSEMBLY AT STA 28+70	1	L.S.

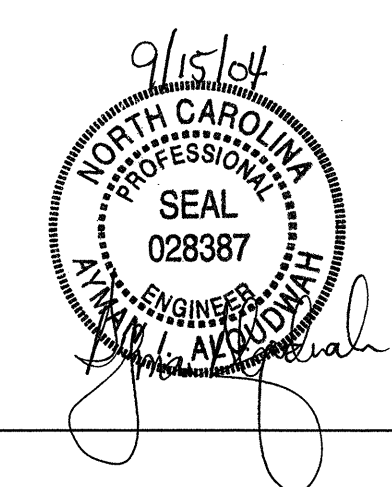
901.10
901.50
904.10
904.50

PLAN PREPARED BY: N.C.D.O.T. SIGNING SECTION

SEAL

RON KING, P.E. SIGNING ENGINEER
A. I. ALQUDWAH, P.E. SIGNING PROJECT ENGINEER
D. M. EATON SIGNING PROJ. DESIGN ENGINEER
D. IVES SIGNING DESIGN ENGINEER





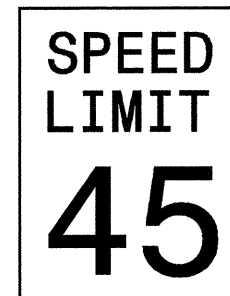
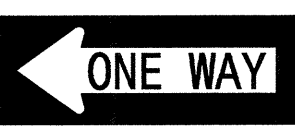

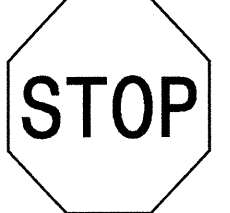
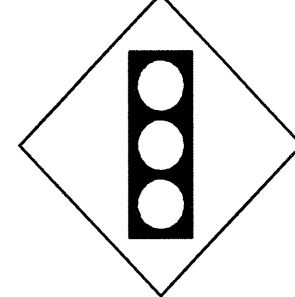

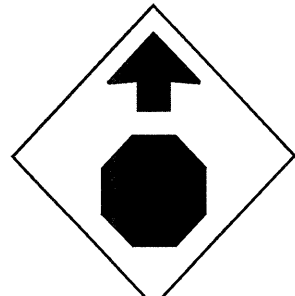
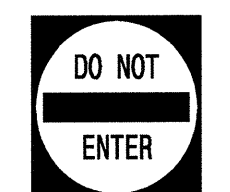


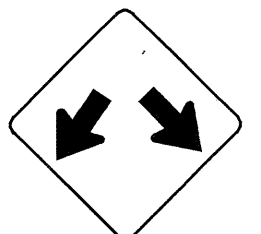
Pay Item Notes:

- | | |
|----|------------------------------------|
| 5 | RELOCATE SIGN, TYPE D |
| 6 | RELOCATE SIGN, TYPE E |
| 24 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL |
| 28 | DISPOSAL OF SUPPORT, U-CHANNEL |


General Notes:

- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE III REFLECTIVE SHEETING.
- . THE BACKGROUND FOR OVERHEAD TYPE A & B SIGNS SHALL BE TYPE IX REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

Project Notes:

<p>402 QUANTITY REQ'D <u>6</u></p>  <p>48 X 60 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>414 QUANTITY REQ'D <u>2</u></p>  <p>54 X 18 R6-1 (L)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>464 QUANTITY REQ'D <u>2</u></p>  <p>48 X 24 W1-7</p> <p>TWO "U" POSTS PER SIGN</p>				
<p>408 QUANTITY REQ'D <u>3</u></p>  <p>30 X 30 R1-1</p> <p>ONE "U" POST PER SIGN</p>	<p>442 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36 W3-3</p> <p>ONE "U" POST PER SIGN</p>					
<p>410 QUANTITY REQ'D <u>4</u></p>  <p>36 X 24 R5-1a</p> <p>ONE "U" POST PER SIGN</p>	<p>443 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36 W3-1a</p> <p>ONE "U" POST PER SIGN</p>					
<p>411 QUANTITY REQ'D <u>3</u></p>  <p>30 X 30 R5-1</p> <p>ONE "U" POST PER SIGN</p>	<p>459 QUANTITY REQ'D <u>2</u></p>  <p>30 X 30 R3-7</p> <p>ONE "U" POST PER SIGN</p>					
<p>413 QUANTITY REQ'D <u>2</u></p>  <p>54 X 18 R6-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>463 QUANTITY REQ'D <u>2</u></p>  <p>30 X 30 W12-1</p> <p>ONE "U" POST PER SIGN</p>					

SEAL



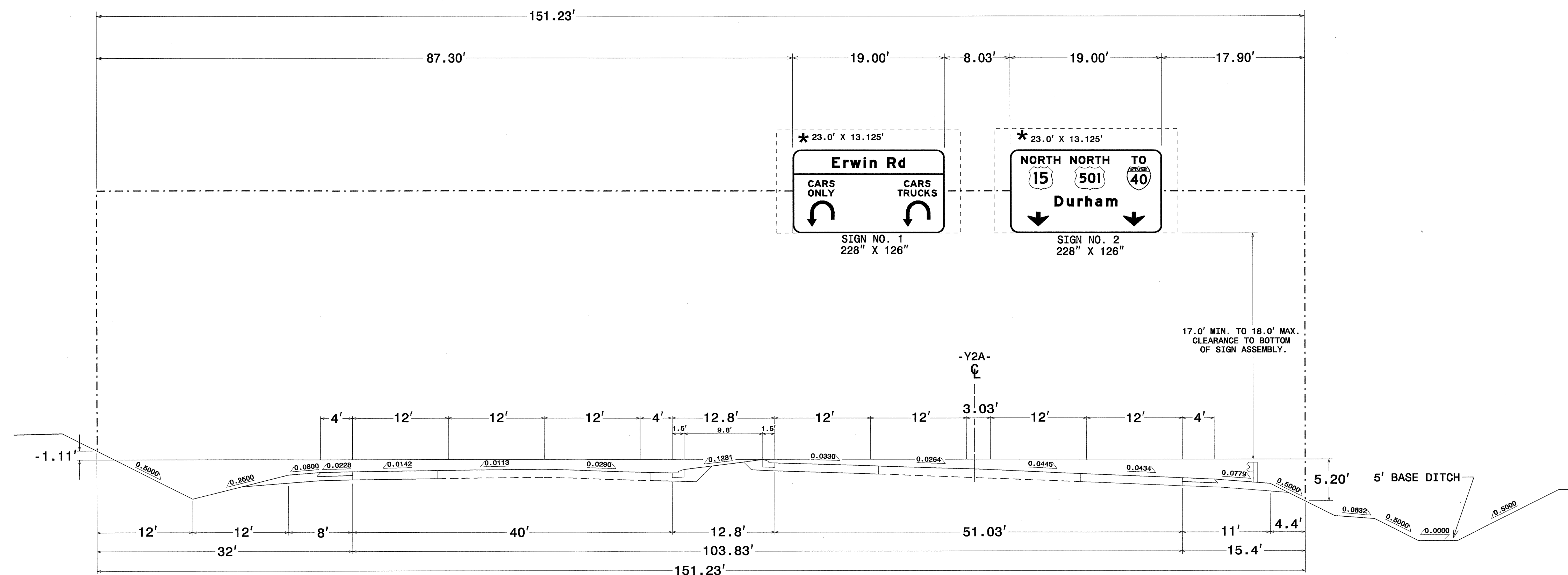
TYPE "E" SIGNS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4008	SIGN-4	
F.A. PROJECT NO.			
PROJECT ID. NO.			

NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST N.C. D.O.T. STANDARD SPECIFICATION FOR ROADS AND STRUCTURES.
3. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. SIGN HANGERS, WALKWAY SUPPORTS, WALKWAY, SAFETY RAIL, AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



SIGNS FURNISHED BY STATE

OVERHEAD ASS'Y "A"
STA. 28+70 -Y2A-
US 15-501 NBL

SCALE	NONE	N.C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE	AUG 2004	DIVISION OF HIGHWAYS	
SIGNING DESIGN ENGINEER	D. IVES	TRAFFIC ENGINEERING BRANCH	
SIGNING PROJ DESIGN ENGR.	M. EATON		
SIGNING PROJECT ENGINEER	A. ALQUDWAH		

PLOT SCALE RATIO = 1:3.8148 DIMENSION TEXT SIZE = 0.4578 AS = 0.0381

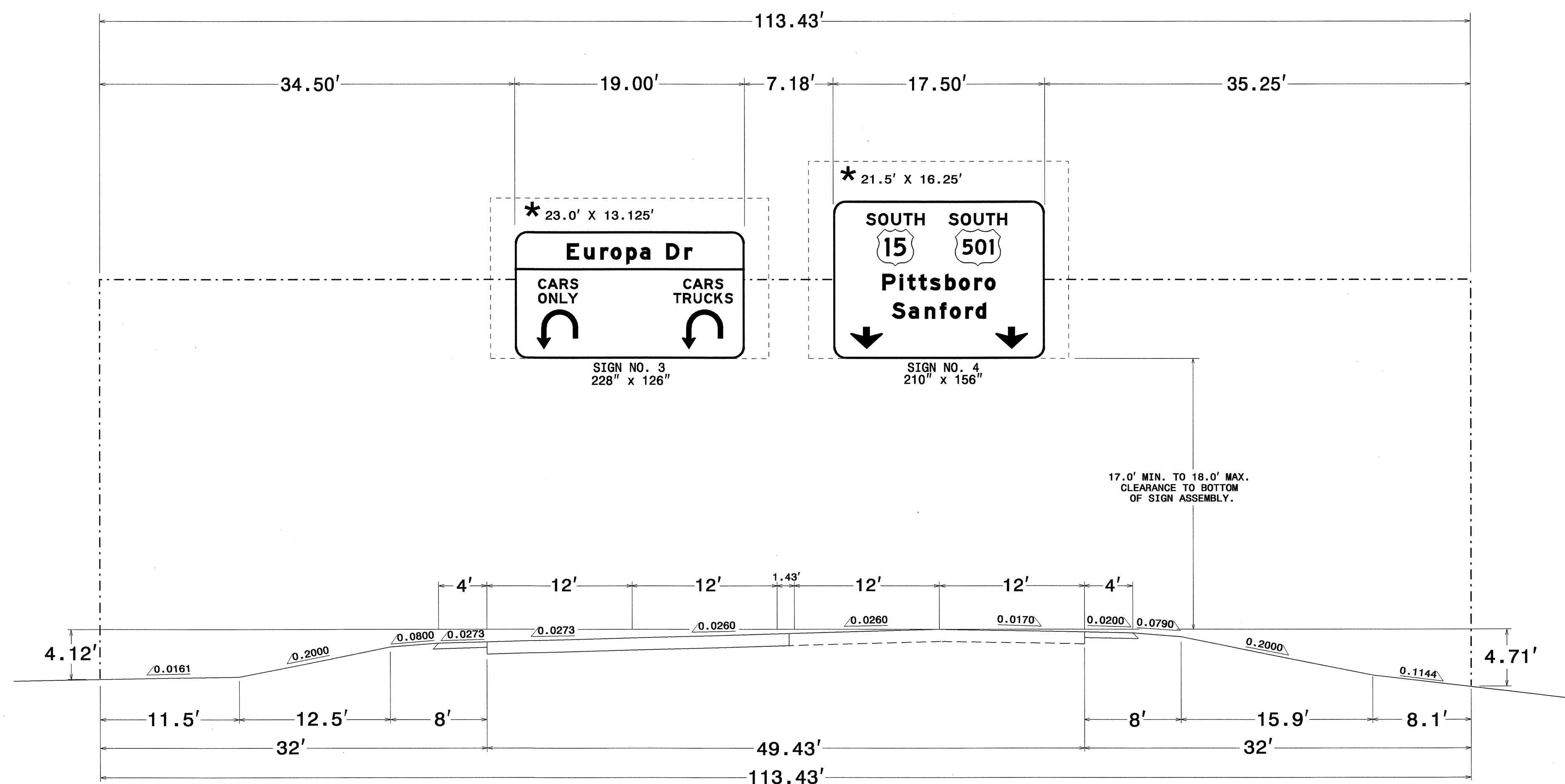
\$\$\$\$SYTIME\$\$\$\$ DGNSSPECIFICATIONS\$\$\$\$\$\$\$\$\$\$\$\$

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4008	SIGN-5	
F.A. PROJECT NO.			
PROJECT ID. NO.			

NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST N.C. D.O.T. STANDARD SPECIFICATION FOR ROADS AND STRUCTURES.
3. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. SIGN HANGERS, WALKWAY SUPPORTS, WALKWAY, SAFETY RAIL, AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



SIGNS FURNISHED BY STATE

OVERHEAD ASS'Y "B"
STA. 19+50
US 15-501 SBL

SCALE	NONE	N.C. DEPARTMENT OF TRANSPORTATION	REVISIONS
DATE	AUG 2004		
SIGNING DESIGN ENGINEER	D. IVES		DIVISION OF HIGHWAYS
SIGNING PROJ DESIGN ENGR.	M. EATON		TRAFFIC ENGINEERING
SIGNING PROJECT ENGINEER	A. ALQUIDWAH	BRANCH	S/O INV. NO.

\$\$\$\$SYTIME\$\$\$\$\$ DGN\$SPECIFICATION\$\$\$\$\$

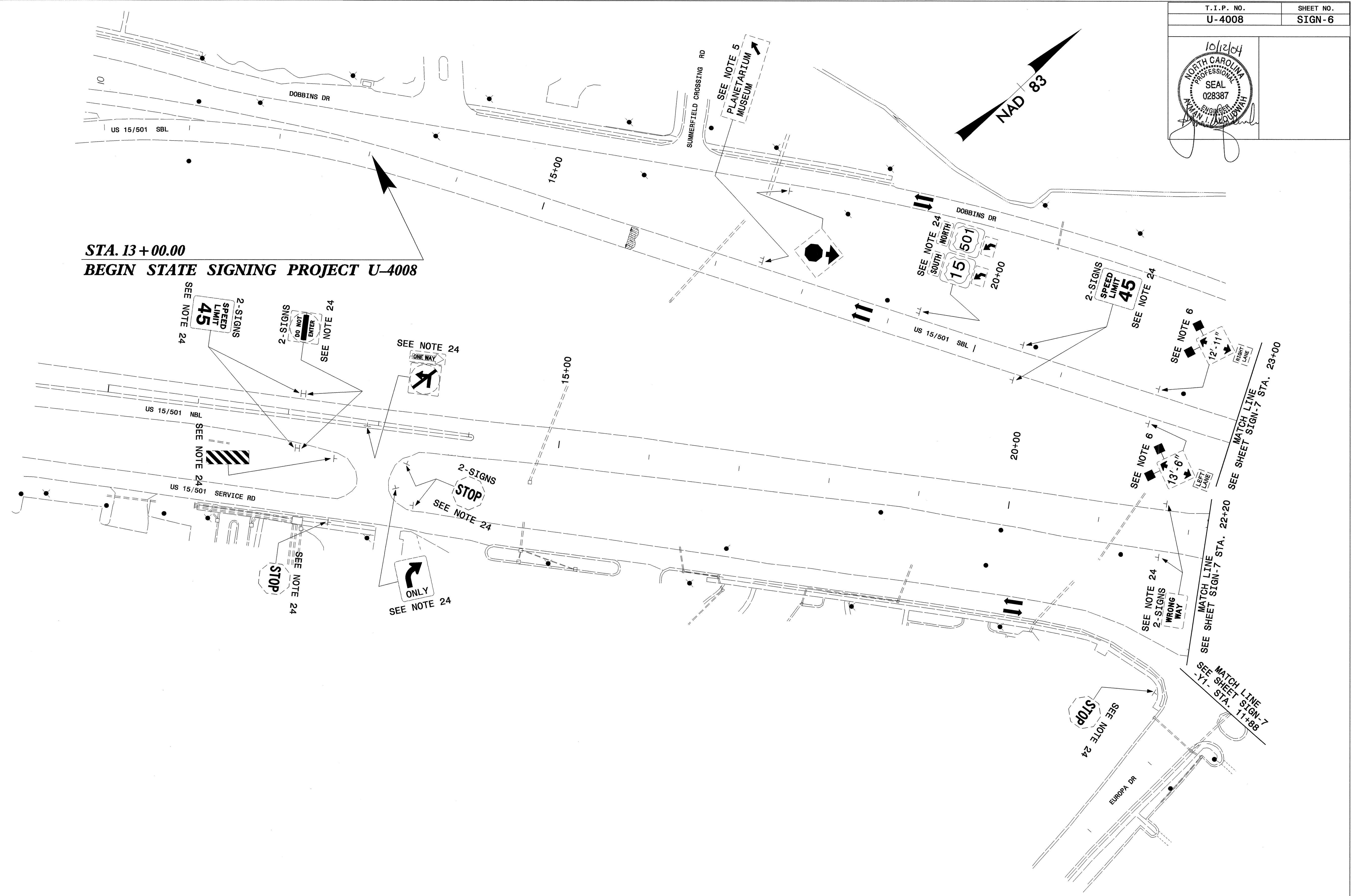
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8/17/99

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T.I.P. NO. U-4008	SHEET NO. SIGN-6
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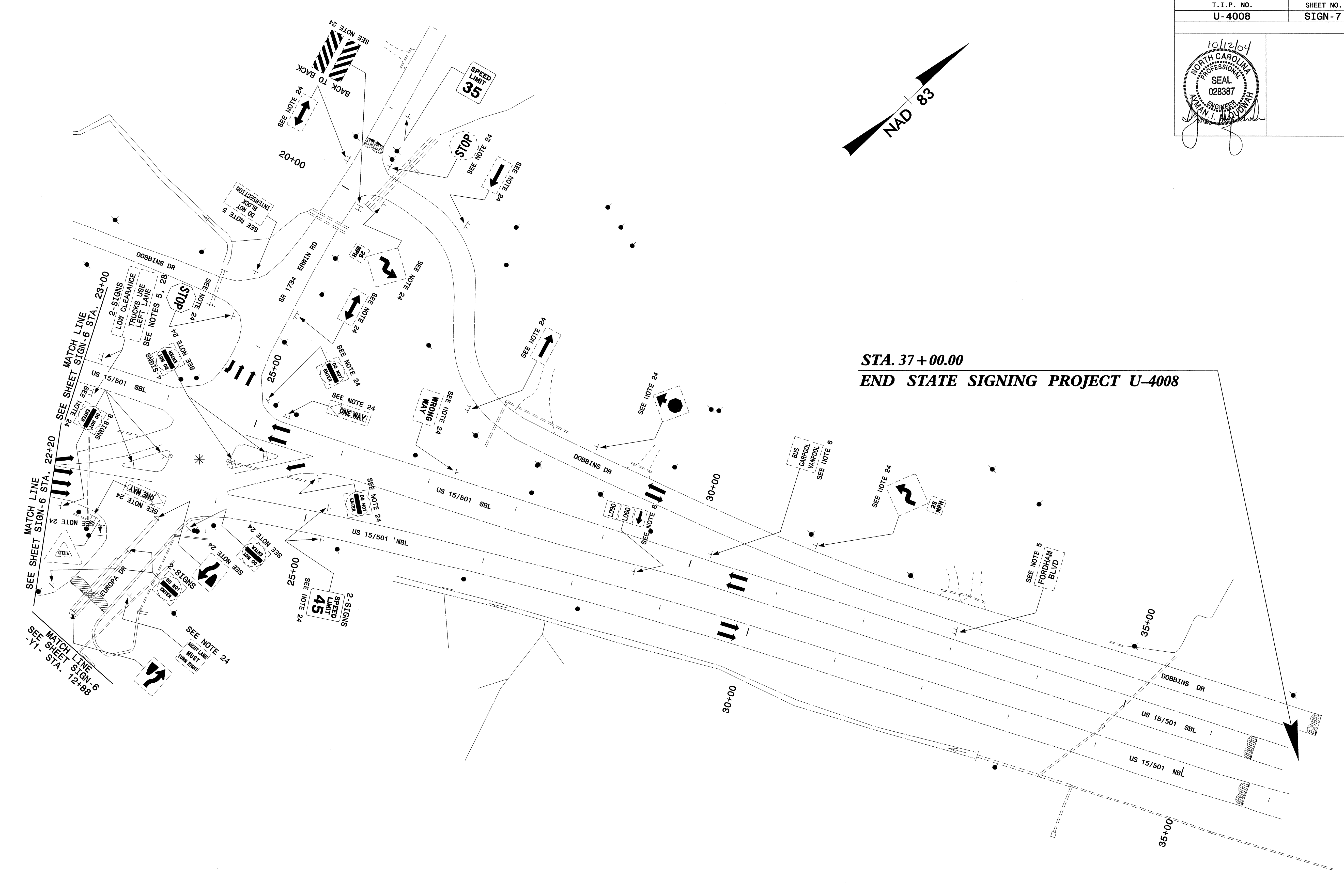
10/12/04
NORTH CAROLINA
PROFESSIONAL
SEAL
028387
ENGINEER
AMIN I. AKOUDAH



**EXISTING SIGNS
US 15-501 AND EUROPA DRIVE
STA 16+00 - STA 23+00**

8/17/99
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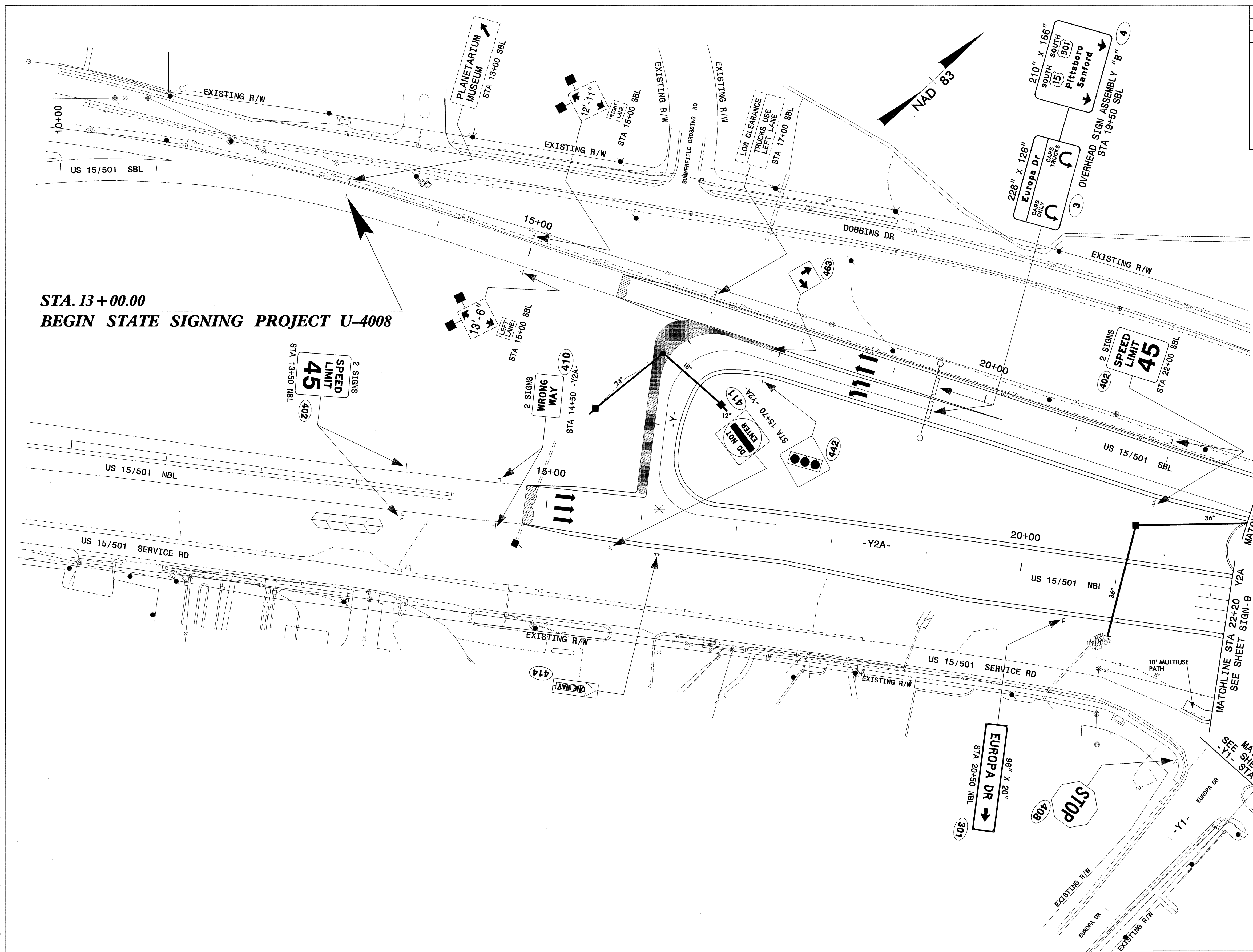


STA. 37+00.00
END STATE SIGNING PROJECT U-4008

* SIGNALIZED

**EXISTING SIGNS
US 15-501 AND EUROPA DRIVE
STA 23+00 - STA 37+00**

T.I.P. NO. U-4008	SHEET NO. SIGN-8
	



**STA. 13 + 00.00
BEGIN STATE SIGNING PROJECT U-4008**

* SIGNALIZED

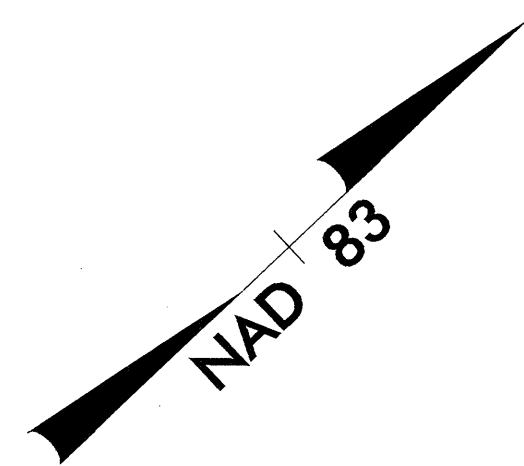
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US 15-501 AND EUROPA DRIVE
STA 16+00 - STA 23+00**

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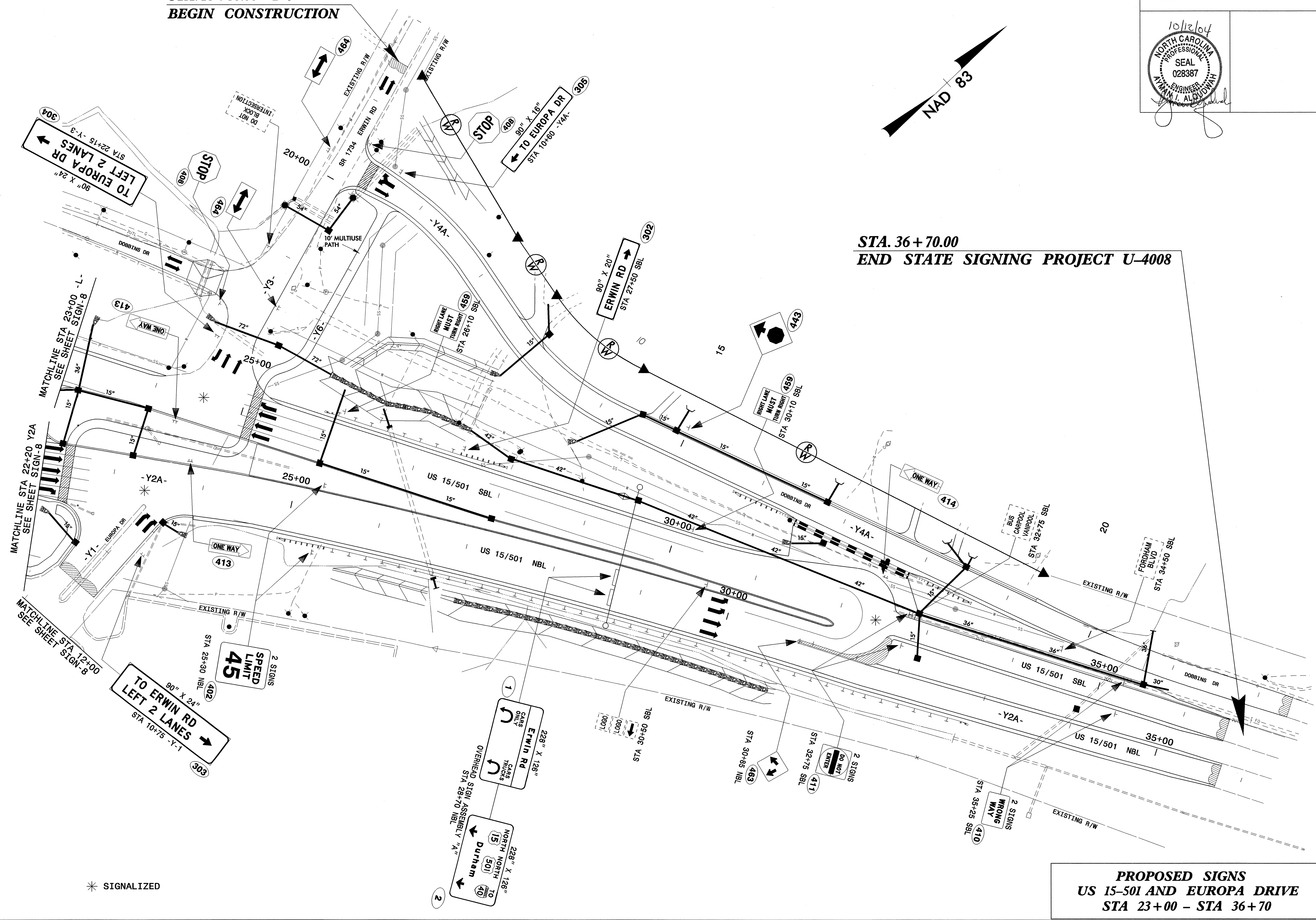
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**STA. 18+50.00 -Y-3
BEGIN CONSTRUCTION**

**STA. 36+70.00
END STATE SIGNING PROJECT U-4008**



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* SIGNALIZED

**PROPOSED SIGNS
US 15-501 AND EUROPA DRIVE
STA 23+00 - STA 36+70**