



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 9, 2005

U.S. Army Corps of Engineers
Raleigh Regulatory Field Office
6508 Falls of the Neuse Road, Suite 120
Raleigh, North Carolina 27615

ATTN: Mr. Eric Alsmeyer
NCDOT Coordinator

SUBJECT: **Permit Modification Request for TIP I-2511CB**, I-85 Improvements from North of SR 1002 to North of SR 2120 Near the Town of Spencer in Rowan County, State Project No. 8.1631503, Tip No. I-2511CB. Debit \$475 for Major WQC modification from WBS Element No. 34163.1.1.

REFERENCE: Individual Permit issued October 7, 2004; USACE Action ID 200221534 NC WQC No. 3456 issued April 20, 2004 (Modified January 7, 2005); DWQ Project No. 040271.

Dear Sir:

The North Carolina Department of Transportation (NCDOT) is requesting a permit modification for the above referenced project. The need for the permit modification arose from minor design changes that are proposed for the project, special staging requirements of the construction of the onsite Town Creek relocation, and documentation that a service road bridge to be constructed over Town Creek will not cause impacts to the stream.

The revised design does not compromise NCDOT's compliance with the existing permit conditions. No new impact sites have resulted from the design modifications. Minor design changes have resulted in a decrease in impacts at some sites while slightly increasing impacts at only one site. The design modifications have been evaluated for compliance with the avoidance/minimization criteria and are in compliance with all previous Individual Permit factors, including the following:

- Protected Species,
- Cultural Resources,
- Aquatic Life passage, and
- FEMA compliance.

Summary of Impact Changes

The original permit was issued for 994 linear feet of permanent impacts to Town Creek, 1,224 linear feet of permanent impacts to UTs to Town Creek, 0.051-acre of impact to riverine wetlands, and 0.47-acre of permanent impacts to non-riverine wetlands. The proposed design changes will permanently impact a total of 978 linear feet of Town Creek, 1,082 linear feet of UTs to Town Creek, 0.049-acre of riverine wetlands, and 0.47-acre of non-riverine wetlands. The design modification has resulted in an overall decrease of 158 linear feet of permanent stream impacts and 0.002-acre of permanent wetland impacts. The reduction in permanent stream and permanent wetland impacts was achieved by adjusting the road profile and steepened fill slopes. The change in permanent stream impacts reduced the impacts requiring mitigation by 72 linear feet. Temporary stream impacts associated with the installation of pipe and box culvert extensions are anticipated at each stream crossing, with the exception of Sites 5 and 10. It is anticipated that a length of the streams, extending 10 feet beyond the end of each pipe extension and 20 feet at pipes and box culvert extensions that require headwalls, may require minor excavation and access by construction equipment. These areas would be restored to their previous grades upon completion of the pipe/culvert extension installations. Additionally, based on requirements in the Culvert Survey Report, floodplain benches are proposed adjacent to Town Creek at Site 9 to accommodate the headwalls associated with the RCBC extension. These will be excavated entirely in uplands and would not impact Town Creek. The following table summarizes the jurisdictional impacts, the permanent impact increases or decreases, and temporary stream impacts associated with the project.

Site	Permanent Wetland Impacts (acres)*		Temporary Stream Impacts (linear feet)**	Permanent Stream Impacts (linear feet)	Stream Impacts Requiring Mitigation (linear feet)	Natural Channel Design (linear feet)
	Riverine	Non-Riverine				
1	0	0	30	102 (+36)	102 (+36)	0
2	0	0	20	163 (-17)	163 (-17)	0
3	0	0	10	80 (-13)	0	0
4	0.002 (-0.002)	0	10	90 (-24)	90 (-24)	0
5	0	0	0	864	864	1375
6	0.047	0	30	200	37	0
7A	0	0	10	162 (-109)	(-41)	0
7B	0	0	30	200 (-10)	200 (-10)	0
8	0	0.47	20	85 (-5)	0	0
9	0	0	40	114 (-16)	114 (-16)	0
10	0	0	0	0	0	0
Total	0.049 (-0.002)	0.47	200	2060 (-158)	1570 (-72)	1375

*= Includes fill, excavation, and mechanized clearing.

**= Temporary stream impacts not included in the original permit application.

(+/-) = Indicates the impact increase or decrease.

Following is a site-by-site description of the design modifications and the associated changes to previously permitted wetland and stream impacts.

Site 1, Sheet 4 of 35

Station 647+50 – L – (LT/RT)

The design for the southbound lane of I-85 was shifted to the west to facilitate the construction of the southbound bridge, which resulted in an increase in permanent stream impacts. The design modification is proposed in order to maintain traffic during construction of the new bridge, allow for faster construction, and to reduce bridge construction costs. Retain and extend existing RCP in UT to Town Creek. Original Permanent Impact: 66 linear feet; New Permanent Impact: 102 linear feet.

Impact change: Permanent stream impact = increase of 36 linear feet (which requires mitigation)
Temporary stream impact = 30 linear feet

Site 2, Sheet 6 of 35

Station 680+00 – L – (LT/RT)

Retain and extend existing RCP in UT to Town Creek. Original Permanent Impact: 180 linear feet; New Permanent Impact: 163 linear feet.

Impact change: Permanent stream impact = decrease of 17 linear feet (originally required mitigation)
Temporary stream impact = 20 linear feet

Site 3, Sheet 8 of 35

Station 49+27 – CSR1 – (LT)

Retain and extend existing RCP in an intermittent UT to Town Creek. Original Permanent Impact: 93 linear feet; New Permanent Impact: 80 linear feet.

Impact change: Permanent stream impact = decrease of 13 linear feet (no change in mitigation requirements)
Temporary stream impact = 10 linear feet

Site 4, Sheet 10 of 35

Station 16+00 – CRP1C – (RT)

Retain and extend existing RCP in UT to Town Creek. Original Permanent Stream Impact: 114 linear feet; New Permanent Stream Impact: 90 linear feet. Original Temporary Wetland Impact: 0.004-acre; New Temporary Wetland Impact: 0.002-acre.

Impact change: Permanent stream impact = decrease of 24 linear feet (originally required mitigation)
Temporary stream impact = 10 linear feet
Temporary Wetland impact = decrease of 0.002-acre

Site 5, Sheets 12 through 20 of 35

Station 18+00 – CRP1B – through 26+00 – CRP1A – (LT)

Placement of clean fill material in Town Creek. Original Permanent Impact: 864 linear feet; New Permanent Impact: 864 linear feet.

Impact change: Permanent stream impact = no change

Site 6, Sheet 21 of 35

Station 31+40 – CSRC – (LT)

Placement of RCP in UT to Town Creek, placement of clean fill material in riverine wetland. Original Permanent Stream Impact: 200 linear feet; New Permanent Stream Impact: 200 linear feet. Original Permanent Wetland Impact: 0.047-acre; New Permanent Wetland Impact: 0.047-acre.

Impact change: Permanent stream impact = no change
Temporary stream impact = 30 linear feet
Permanent wetland impact = no change

Site 7A, Sheet 24 of 35

Station 807+50 – L – (RT)

Extend existing RCP in UT to Town Creek. Original Permanent Impact: 271 linear feet; New Permanent Impact: 162 linear feet.

Impact change: Permanent stream impact = decrease of 109 linear feet (of which 41 linear feet originally required mitigation)
Temporary stream impact = 10 linear feet

Site 7B, Sheet 26 of 35

Station 812+23 – L – (LT/RT)

Extend existing RCBC in UT to Town Creek. Original Permanent Impact: 210 linear feet; New Permanent Impact: 200 linear feet.

Impact change: Permanent stream impact = decrease of 10 linear feet (originally required mitigation)
Temporary stream impact = 30 linear feet

Site 8, Sheet 28 of 35

Station 73+00 – CSR1 –

Placement of RCP in UT to Town Creek, placement of clean fill material and mechanized clearing in non-riverine wetland. Original Permanent Stream Impact: 90 linear feet; New Permanent Stream Impact: 85 linear feet. Original Permanent Wetland Impact: 0.47-acre; New Permanent Wetland Impact: 0.47-acre.

Impact change: Permanent stream impact = decrease of 5 linear feet (no change in mitigation requirements)
Temporary stream impact = 20 linear feet
Permanent wetland impact = no change

Site 9, Sheets 30 and 31 of 35

Station 752+65.85 – L – (LT/RT)

Extend existing RCBC in Town Creek. Floodplain benches are proposed on either side of the stream channel to accommodate the headwalls associated with the RCBC. These would be excavated entirely in uplands and would not impact the stream channel. Original Permanent Impact: 130 linear feet; New Permanent Impact: 114 linear feet.

Impact change: Permanent stream impact = decrease of 16 linear feet (which originally required mitigation)
Temporary stream impact = 40 linear feet

Site 10, Sheet 32 of 35

Station 63+97.50 to 66+59.50 – CSR1 –

Construction of a 3-span bridge over Town Creek. Original Permanent Impact: 0 linear feet; New Permanent Impact: 0 linear feet.

Impact change: Permanent stream impact = no change

On-Site Mitigation Strategy

According to the approved on-site stream mitigation plan, bed material from the existing Town Creek channel will be removed, stockpiled and placed in the riffles of the proposed relocated stream channel. If water was to be immediately diverted into the relocated channel, this might be a viable plan. However, per the permit conditions, the newly constructed channel will be allowed to stabilize for approximately 6 months prior to diverting flow into it, during which time the existing channel will be unstable and prone to erosion and sedimentation of Town Creek, downstream of the construction project. The potential for constructing a third, temporary channel was discussed and it was determined that this is not practicable because a crossing of the temporary channel for SR 1915 would be required, the instability of the temporary channel could also cause downstream impacts in a storm event, and, there is not enough space available to construct the temporary channel. Additionally, the relocated channel will be approximately 60 percent longer than the channel that will be impacted and some of the riffles in the existing channel consist of predominantly bedrock. The mitigation plan states that the existing channel has very little riffle/pool sequence and based on observations during a recent site visit, it is doubtful that there would be enough substrate available in the existing stream to construct the riffles of the new channel. Therefore, it is proposed that riffle substrate for the relocated stream channel would be obtained from an approved offsite location.

Exit 79 and SR 1915 are frequently used as detour routes when emergency situations (accidents) require that I-85 be closed to traffic. Therefore, uninterrupted traffic flow will be maintained during construction of the proposed realigned section of SR 1915. To achieve this, 2, 8'x6' pre-cast box culverts will be placed within the relocated portion of Town Creek, adjacent to the banks, in the section of SR 1915 that currently crosses the proposed relocated stream. A 12-foot long concrete slab will span the center portion of the relocated stream channel, allowing the flow from existing Town Creek to be diverted into the relocated channel while maintaining traffic on SR 1915 during the construction of the proposed realigned section of SR 1915. The proposed box culvert and concrete slab arrangement was designed to handle the flow of the 5-year storm event. Upon completion of construction of the realigned section of SR 1915, the box culverts and concrete slab will be removed from the channel and the road fill will be removed from the floodplain. This portion of the floodplain adjacent to the relocated stream channel will be graded to the specified elevations and the appropriate vegetation will be installed, per the mitigation plan. This will eliminate the need for major in-stream work after water has been diverted to the new channel and reduce the likelihood of sedimentation or other disruptions to the stream. Sediment and erosion control measures will be implemented during the box culvert/road fill removal process to prevent damage to the relocated and existing Town Creek.

The relocated portion of Town Creek will be constructed upstream and downstream of SR 1915 without tying into the upstream portion of the existing channel. SR 1915 will be closed for approximately 7 days to allow installation of the box culverts and steel deck. It is anticipated that construction of the realigned portion of SR 1915, including the new bridge over the relocated channel, will take 6 months to complete giving the planted vegetation along the stream channel an opportunity to become established prior to diverting water into the new channel. Per the conditions of the issued permit, no work in the waters of

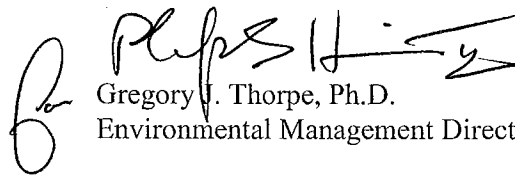
Town Creek will occur during the period of April 1 through June 1 except in dewatered portions of the stream.

Pending receipt of the permit modification, the NCDOT will submit a letter to the North Carolina Ecosystem Enhancement Program (EEP) requesting a revision to the mitigation obligation, in accordance with the reduction in the project impacts.

Regulatory Approval

The NCDOT respectfully requests that the referenced Section 404 Permit be modified to reflect the revisions outlined in this letter. The NCDOT is also hereby requesting a modification of the 401 Water Quality Certification from the NCDWQ. In compliance with Section 143-215.3D(e) of the NCAC, we have provided a method of debiting \$475, as noted in the subject line of this application, as payment for processing the Section 401 permit modification application. We are providing seven copies of this application to the North Carolina Department of Environment and Natural Resources, NCDWQ for their review. Attached please find the updated permit drawings and half-size plan sheets of the impact areas. If you have any questions or need additional information, please contact Bill Barrett at (919) 715-1624.

Respectfully,



Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA

Attachments:

Permit Drawings
Half Size Plan Sheets

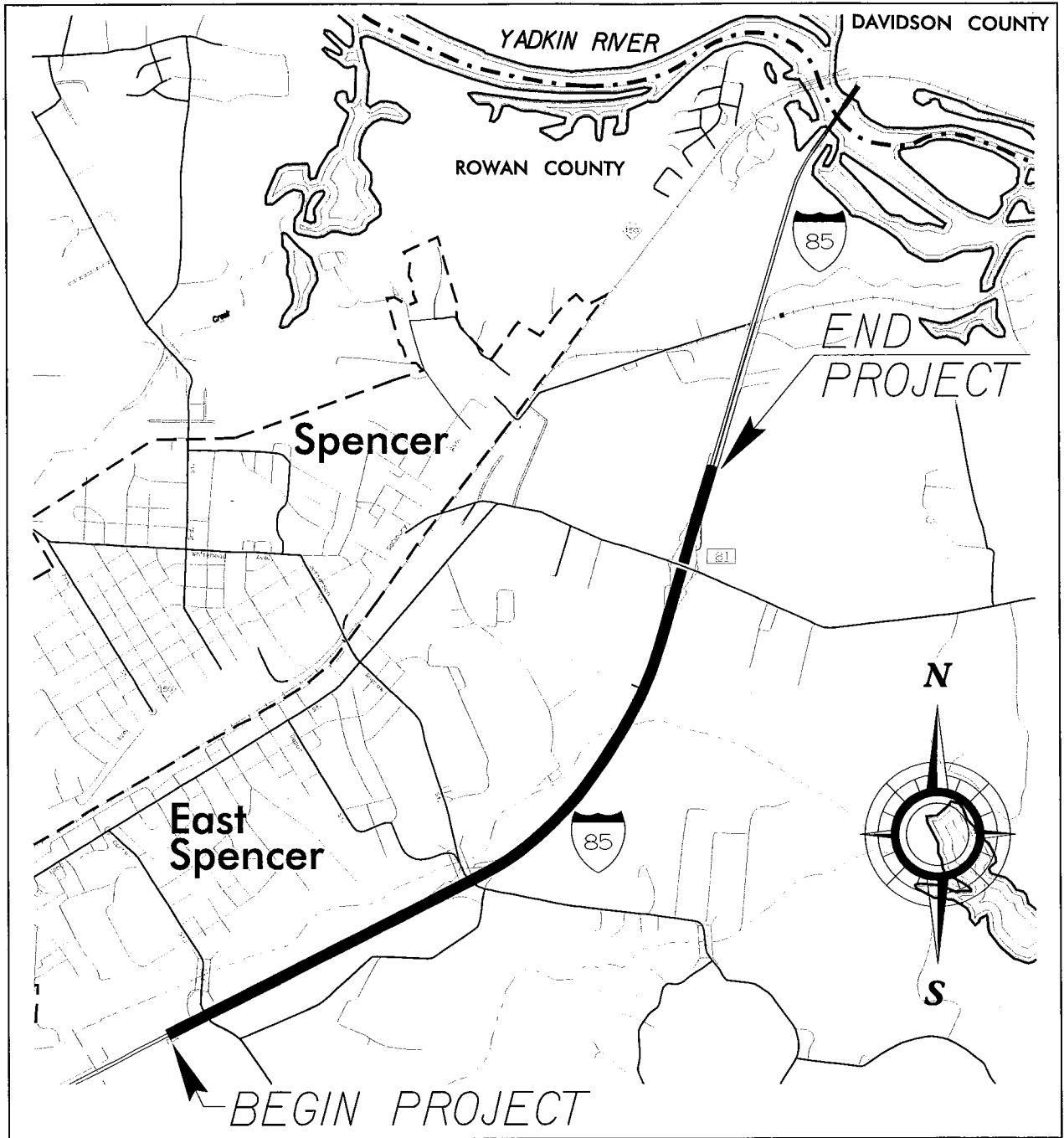
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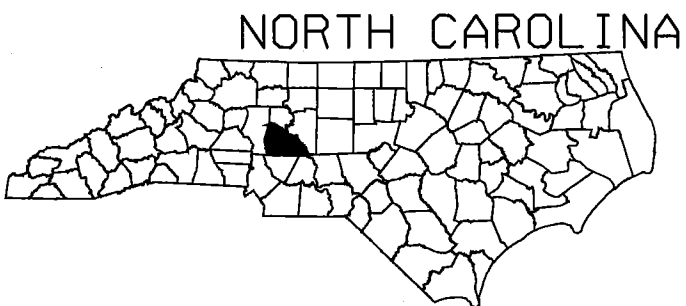
Mr. John Hennessy, NCDWQ (7 copies)
Ms. Marella Buncick, USFWS
Ms. Marla Chambers, NCWRC
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Ms. Diane Hampton, P.E., Division 9 DEO
Dr. David Chang, P.E., Hydraulics
Mr. S.P. Ivey, P.E., Division 9 Engineer
Ms. Becky Fox, USEPA – Whittier, NC
Mr. Ronald Mikulak, USEPA – Atlanta, GA
Mr. Clarence W. Coleman, P.E., FHWA

w/o attachment

Mr. David Franklin, USACE, Wilmington
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Ms. Beth Harmon
Mr. Todd Jones, NCDOT External Audit
Branch
Mr. Art McMillan, P.E., Highway Design
Mr. Eric Midkiff, P.E., PDEA Project Planning
Engineer
Mr. Carl Goode, P.E., HEU Unit Head



VICINITY MAP



NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

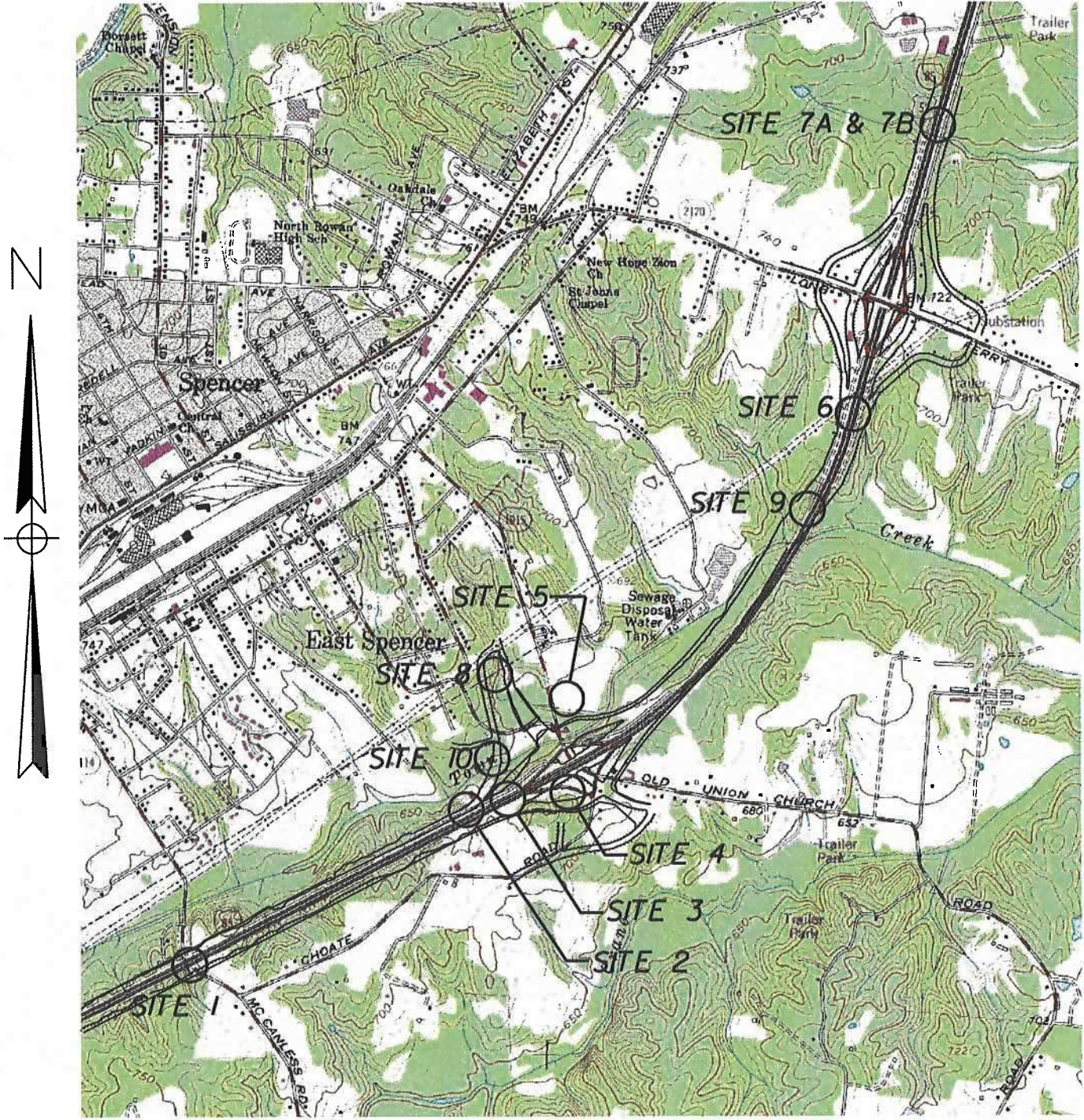
PROJECT: 8J631503 (I-25IICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 1 OF 35

DATE 8/10/05

SITE MAP



SALISBURY, NC QUAD MAP



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ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE

FERRY RD.) TO NORTH OF SR 2120

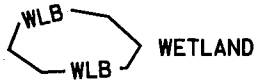
(LONG FERRY RD.) NEAR SPENCER

SHEET 2 OF 35

DATE 8/10/05

WETLAND LEGEND

— WLB — WETLAND BOUNDARY



→ → FLOW DIRECTION

TB — TOP OF BANK

WE — EDGE OF WATER

C — PROP. LIMIT OF CUT

F — PROP. LIMIT OF FILL

▲ — PROP. RIGHT OF WAY

NG — NATURAL GROUND

PL — PROPERTY LINE

TDE — TEMP. DRAINAGE EASEMENT

PDE — PERMANENT DRAINAGE EASEMENT

EAB — EXIST. ENDANGERED ANIMAL BOUNDARY

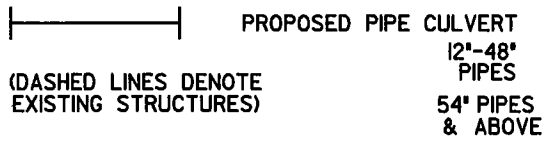
EPB — EXIST. ENDANGERED PLANT BOUNDARY

∇ — WATER SURFACE

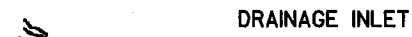
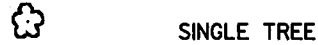
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LIVE STAKES

○ — BOULDER

— — — CORE OF FIBER ROLLS



(DASHED LINES DENOTE EXISTING STRUCTURES)



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ROWAN COUNTY

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I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 3 OF 35

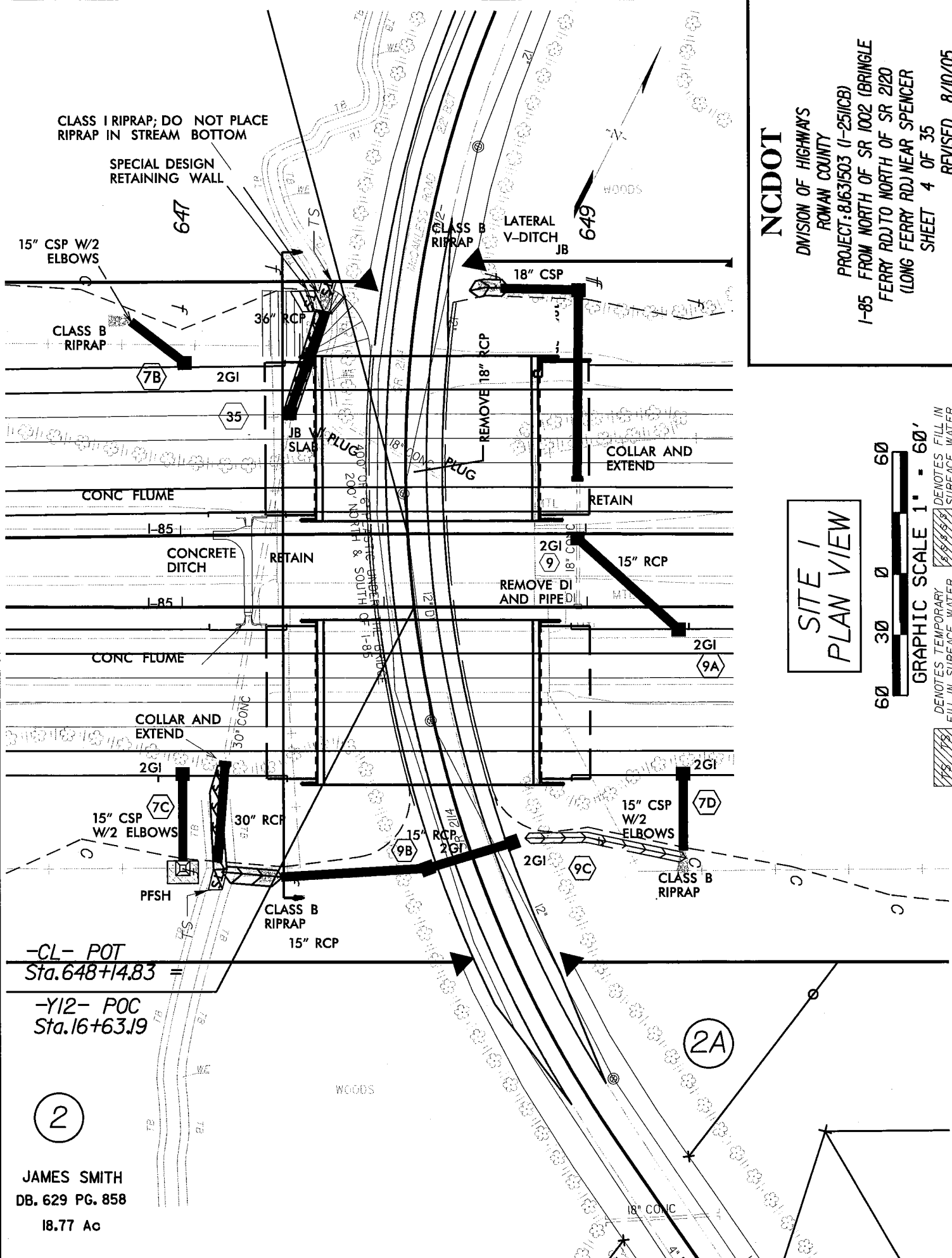
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ROWAN COUNTY

PROJECT: 8J63503 (I-25/ICB)
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FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 4 OF 35
REVISED 8/10/05

**SITE 1
PLAN VIEW**

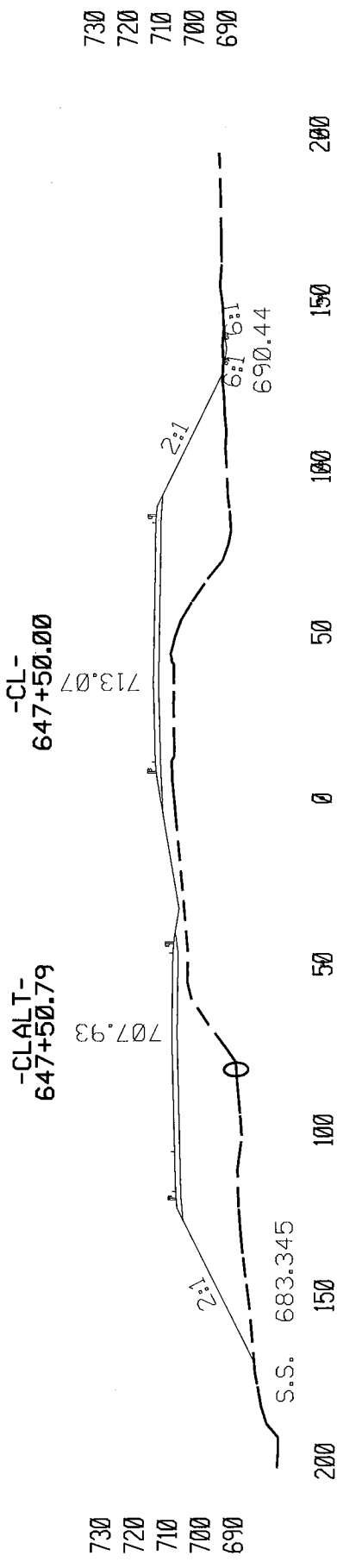


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Sta. 648+14.83 =

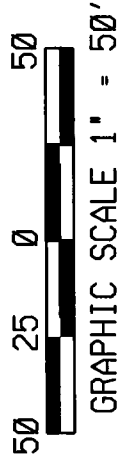
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Sta. 16+63.19

2

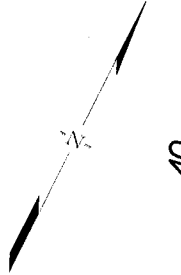
JAMES SMITH
DB. 629 PG. 858
18.77 Ac



**SITE 1
CROSS SECTION VIEW**



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 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 5 OF 35
 DATE 8/10/05



40

680

SITE 2
PLAN VIEW



GRAPHIC SCALE 1" = 60'

DIAGONAL HATCHING DENOTES TEMPORARY FILL IN SURFACE WATER
BRICK HATCHING DENOTES FILL IN SURFACE WATER

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ROWAN COUNTY
PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
SHEET 6 OF 35
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CLASS B RIPRAP;
DO NOT PLACE
RIPRAP IN
STREAM BOTTOM
LATERAL 2' BASE DITCH

CLASS B RIPRAP

24" RCP

36" RCP

18" RCP

S - SEE
DETAIL C

-CSRI-
N 63° 52' 11.45" E

2GI

SPECIAL
DITCH

2GI

2GI

24

GRADE TO
COLLAR DRAIN
AND EXTEND

25

FS

15" RCP

28A

28

18" RCP

31A

JB

18" RCP

30" RCP
CLASS IV
COLLAR
AND EXTEND

COLLAR AND EXTEND

I-85

RETAIN

RETAIN

RETAIN

FS

RETAIN AND ADJUST TOP 2GI

I-85

2GI

29

15" CSP
W/2 ELBOWS

TBJB W/SLAB
STD. DEPTH

34

30" RCP

2GI

15" CSP
W/2 ELBOWS

30

CLASS B
RIPRAP

SPECIAL CUT DITCH

LATERAL V-DITCH

CLASS B
RIPRAP

BERM
DETAIL

10

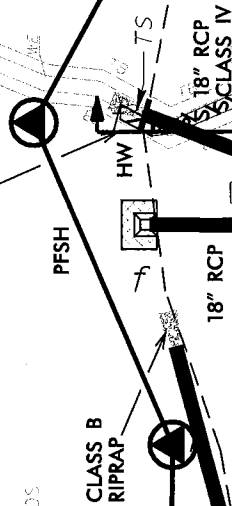
687

CLASS B RIPRAP:
DO NOT PLACE RIPRAP
IN STREAM BOTTOM

WALLACE PROPERTIES
DB. 644 PG. 683
15.67 AC

N26°23'22"W
273.94'

WOODS



N 63° 52' 11.45" E

N 63° 52' 11.45" E

-CSRI/-

18" RCP

FS -

2GI

RETAIN

15" RCP

RETAIN

2GI

18" RCP

52A 2GI

REMOVE 2GI & TIE
EXIST. 18" RCP'S W/COLLARS

52B

RETAIN

18" CONC

RETAIN & ADJUST TOP 2GI

N 62° 58' 52.20" E

-CL-

1-85

24' BST

MC

WOODS

SITE 3
PLAN VIEW



DENOTES FILL IN
SURFACE WATER

DENOTES TEMPORARY
FILL IN SURFACE WATER

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ROWAN COUNTY

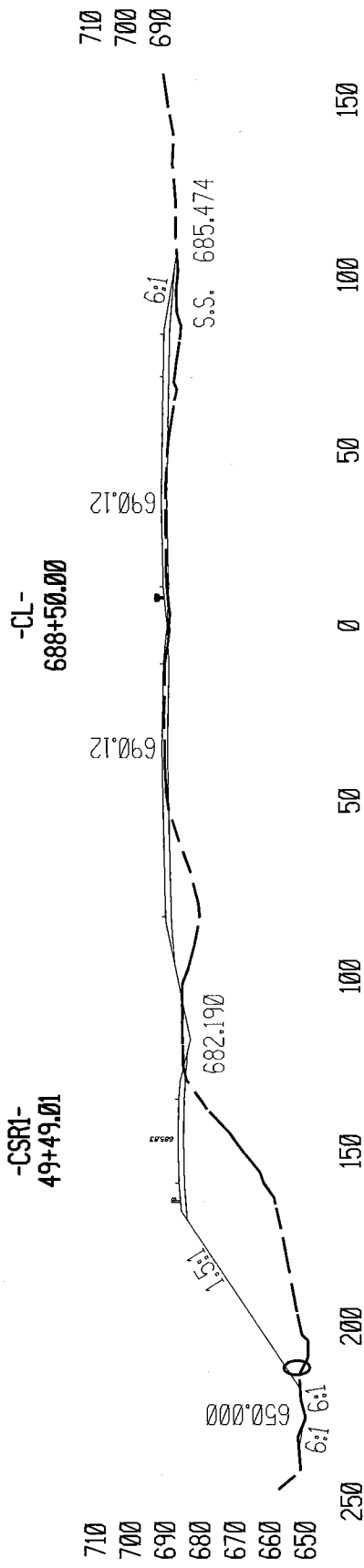
PROJECT: 8J631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120

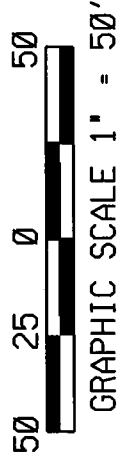
(LONG FERRY RD) NEAR SPENCER

SHEET 8 OF 35

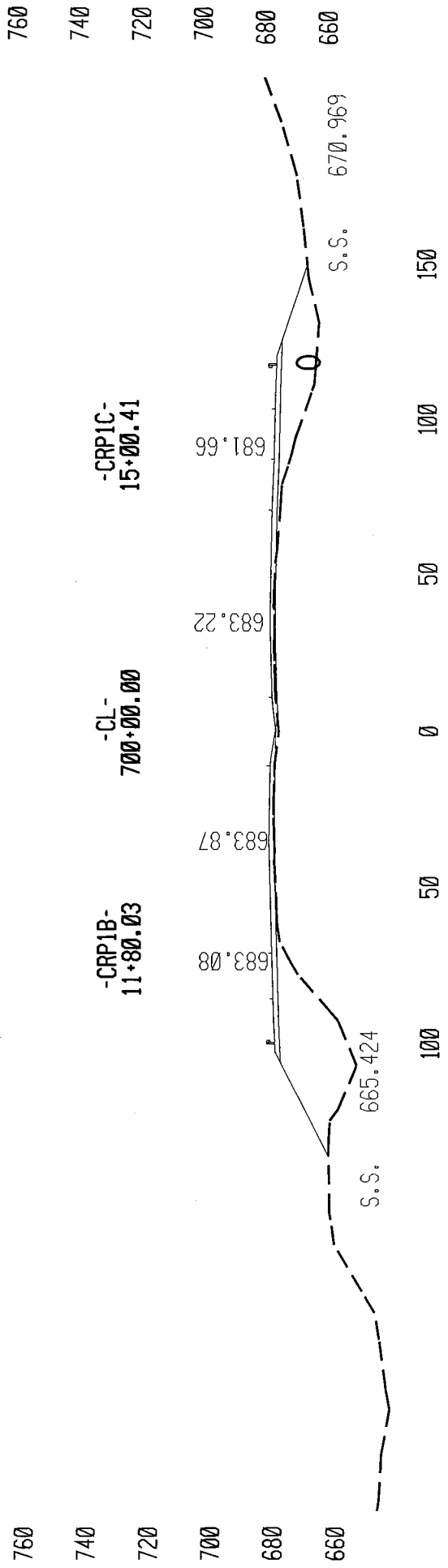
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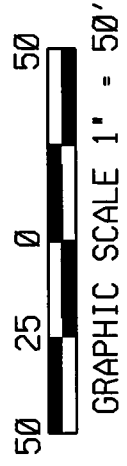
SITE 3 CROSS SECTION VIEW



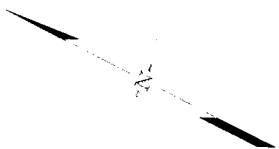
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 ROMAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 9 OF 35 DATE 8/10/05



SITE 4 CROSS SECTION VIEW



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 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 11 OF 35
 DATE 8/10/05



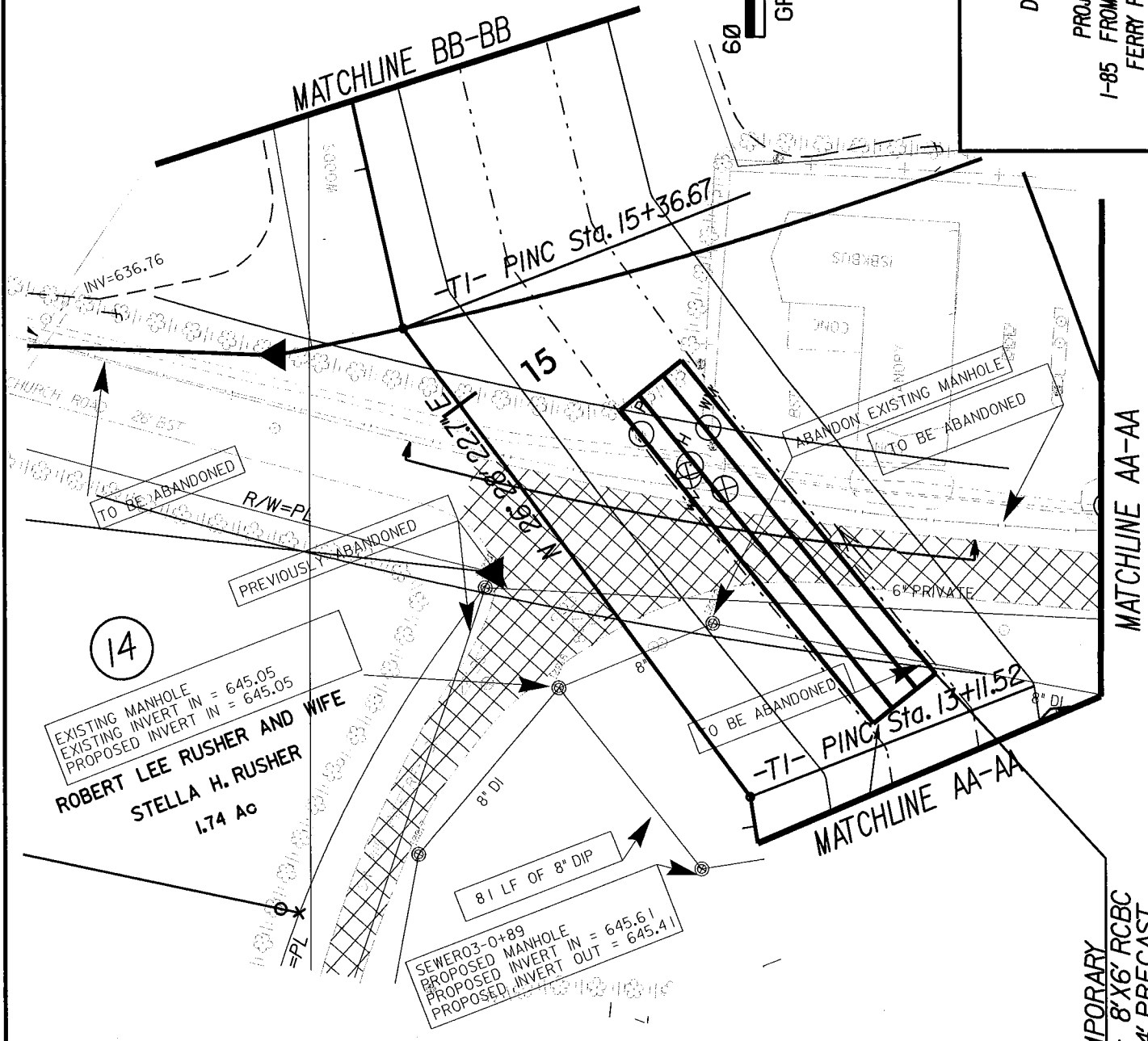
SITE 5 PLAN VIEW



- DENOTES EXISTING ROADWAY TO BE ABANDONED
- DENOTES TEMPORARY FILL IN SURFACE WATER

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 ROWAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
 SHEET 12 OF 35
 REVISED 8/10/05



14

EXISTING MANHOLE
 EXISTING INVERT IN = 645.05
 PROPOSED INVERT IN = 645.05
ROBERT LEE RUSHER AND WIFE
STELLA H. RUSHER
 1.74 AC

SEWER 03-0+89
 PROPOSED MANHOLE
 PROPOSED INVERT IN = 645.61
 PROPOSED INVERT OUT = 645.41

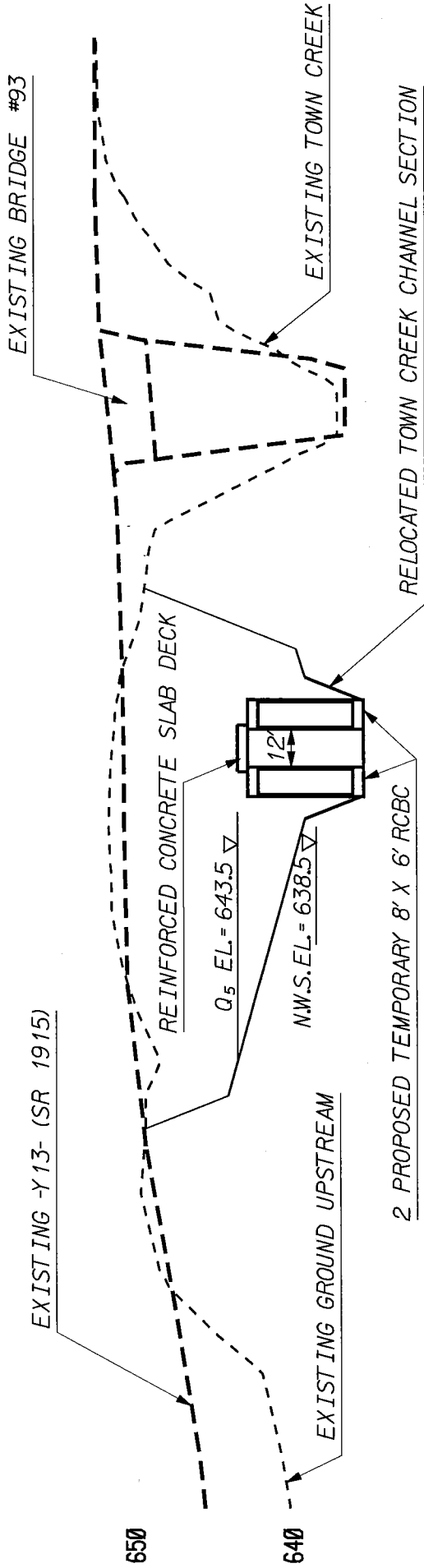
TEMPORARY
 2 - 8'X6' RCBC
 W/14' PRECAST
 CONCRETE SLAB
 "CENTER SPAN"

13

14

15

16



SITE 5 CROSS SECTION VIEW

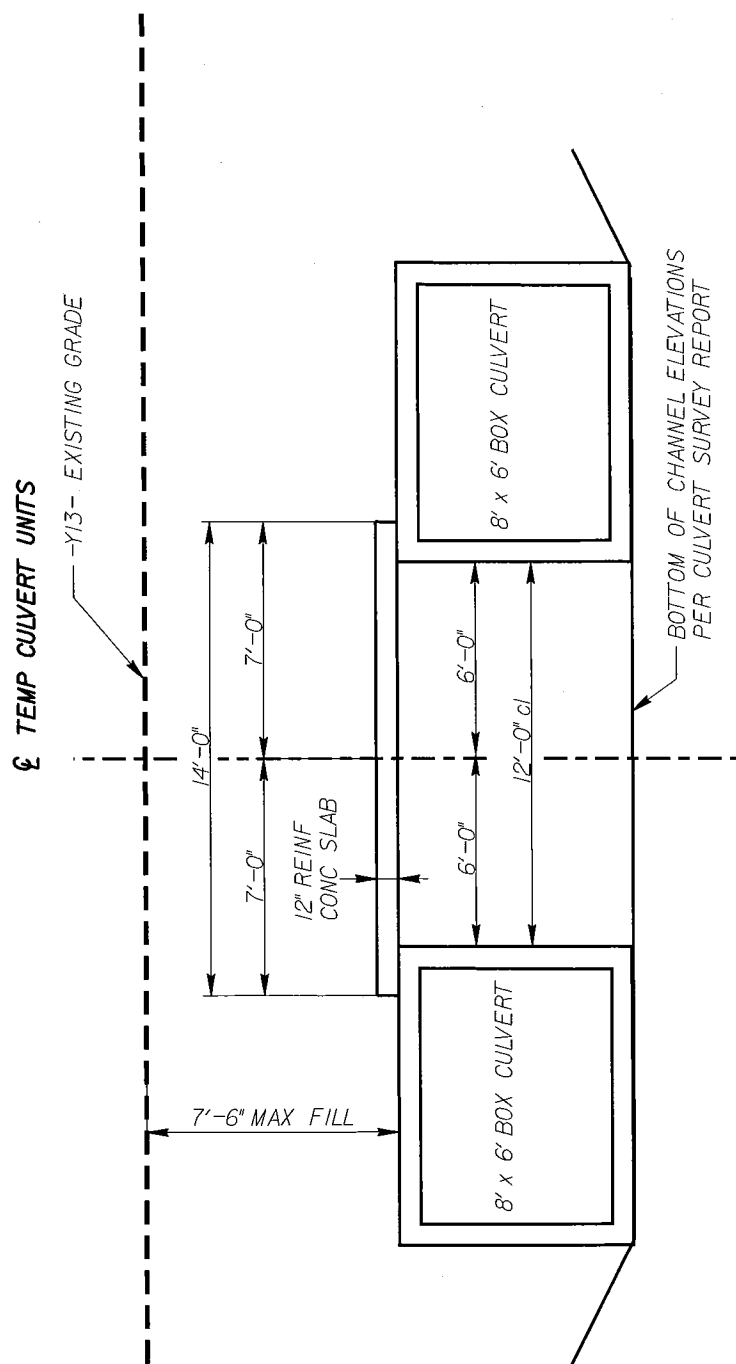
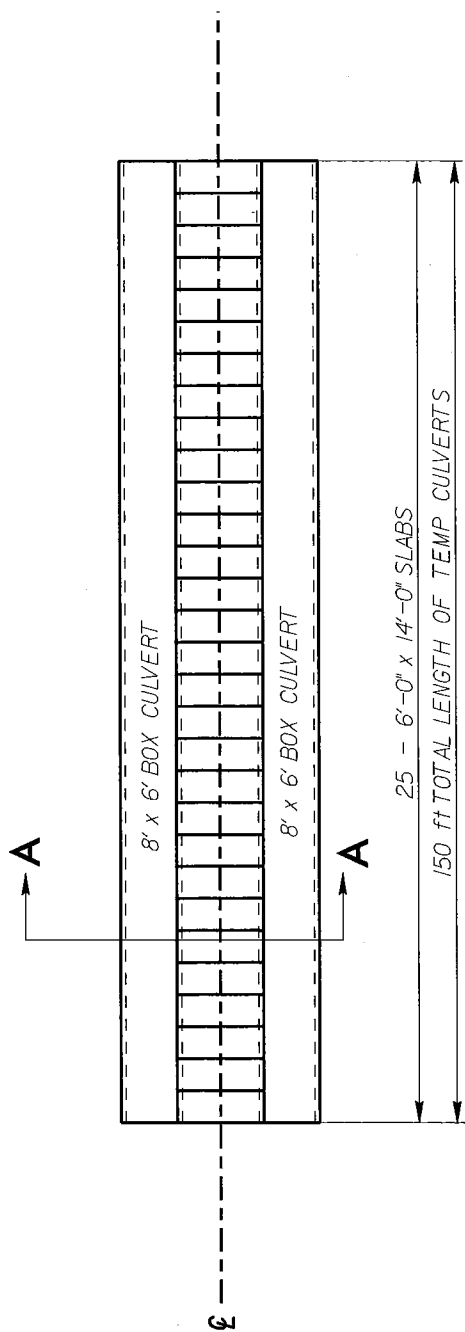


HORIZ GRAPHIC SCALE 1" = 50'
VERT GRAPHIC SCALE 1" = 10'

NCDOT

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ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 13 OF 35 DATE 8/10/05



SITE 5
DETAILS

NTS

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
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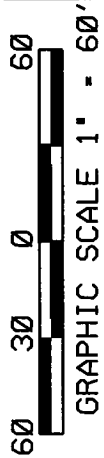
SHEET 14 OF 35



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SECTION A-A



SITE 5A PLAN VIEW



-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER
-  DENOTES EXISTING ROADWAY TO BE ABANDONED

NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 8J63J503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
 SHEET 15 OF 35
 REVISED 8/10/05

MATCHLINE 23+00 -CRPIB-

OLIN E. STAMPER AND WIFE
ANNIE STAMPER

MATCHLINE AA-AA

MATCHLINE AA-AA

2' 8" X 6' RCBC WITH
12' STEEL DECK
"CENTER SPAN"
TEMPORARY 18"
STEEL CASING
256 LF. OF 8" DIP
EXISTING CHANNEL
FILL

PROPOSED MANHOLE #3
PROPOSED INVERT IN = 646.56
PROPOSED INVERT OUT = 646.56

TAIL BASE
DITCH

-CRPIB-
ST Sta. 19+31.90

CL B RIPRAP
EST. 15 TONS
EST. 37 S.Y.F.F.

CL IV METHOD B
N 41° 40' 58.06" E
24" RCP

710

OTCB

-CL-
TSS Sta. 708+46.43

418

EXTRA DEPTH JB
D = 8.5'

TOE PROTECTION

417

PLUG

PLUG

REMOVE

REMOVE

TO BE ABANDONED

PREVIOUSLY ABANDONED

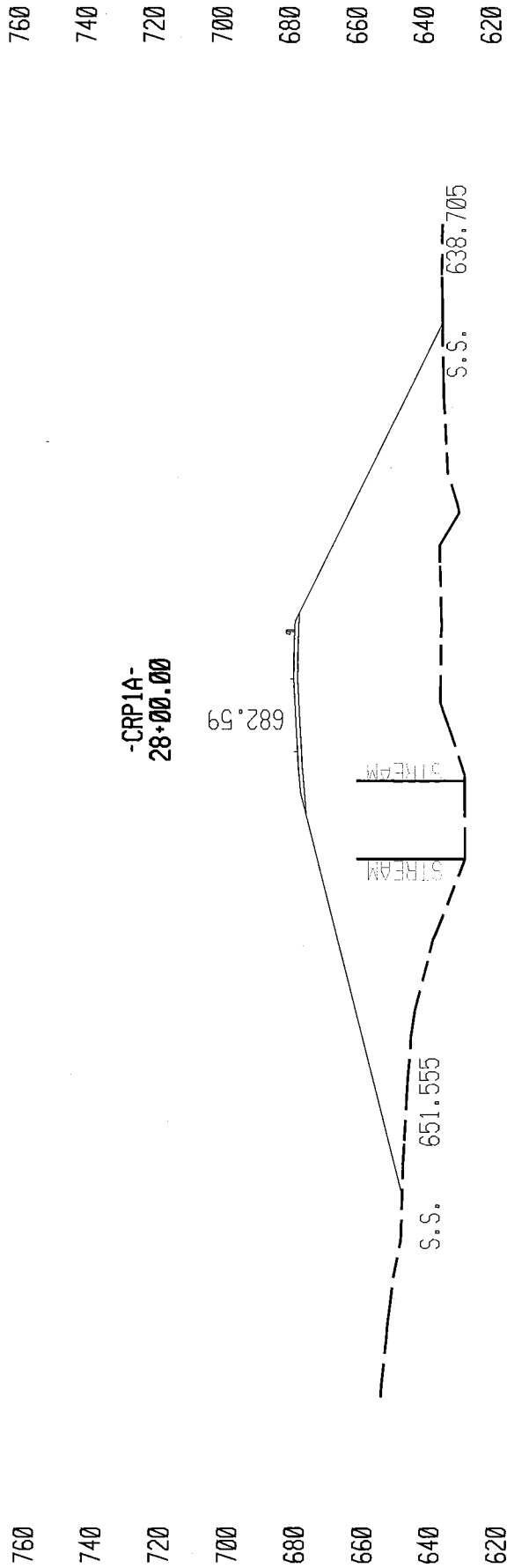
TO BE ABANDONED

PROPOSED 200 LF
STEEL CASING
17-0.25" G=18"

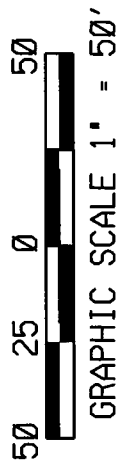
16

414

REVISED 8/10/05



SITE 5B CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 17 OF 35
 DATE 8/10/05

27

R. L. RUSHER AND WIFE
STELLA MAE RUSHER
DB 428 PG 213
79.65 AC

-TI- PINC Sta. 20+35.34

N 78° 03' 35.6" E

20
RELOCATED TOWN CREEK

-TI- PINC Sta. 17+86.67

N 50° 26' 54.3" E

101

15" W/2 ELBOWS
-C1/C-
24+55.43
PREFORMED SCOUR HOLE

MATCHLINE BB-BB

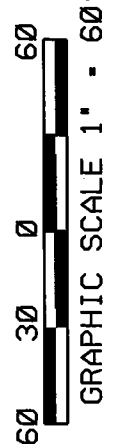
PROPOSED 114 LF
STEEL CASING
t=0.250" d=16"

WATER 1-15+59
PROPOSED 45 DEG
BENDS WITH BLOCKING

WATER 1-15+41
PROPOSED 45 DEG
BENDS WITH BLOCKING

MATCHLINE CC-CC

SITE 5C
PLAN VIEW



DENOTES TEMPORARY
FILL IN SURFACE WATER

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-2511CB)
1-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 18 OF 35
REVISED 8/10/05

W.P. #1 - BEGIN BRIDGE
 STA. 17+90.000
 FILL FACE @ END BENT 1
 VC STA. 17+90.000
 ELEV. 657.470
 -CY13- GRADE DATA

W.P. #4 - END BRIDGE
 STA. 23+95.000 - CY13-
 VC STA. 23+95.000
 ELEV. 644.54
 -CY13- GRADE DATA

W.P. #1 - BEGIN BRIDGE
 STA. 21+28.000 - CY13-
 FILL FACE @ END BENT 1
 G.P. ELEV. 673.471
 -CY13- GRADE DATA

W.P. #2
 STA. 22+00.000 - CY13-
 G.P. ELEV. 673.138
 -CY13- GRADE DATA

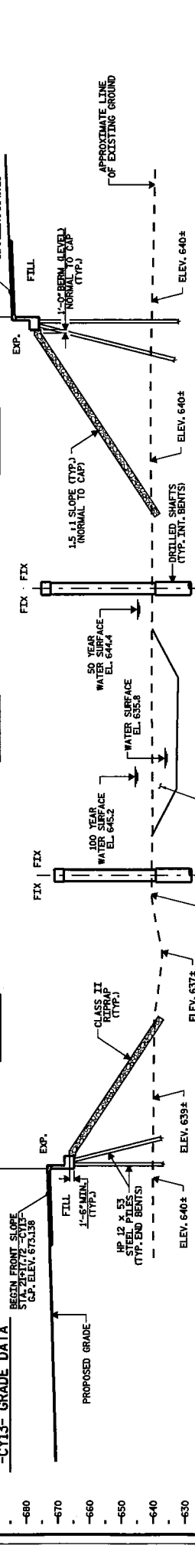
W.P. #2
 STA. 22+00.000 - CY13-
 G.P. ELEV. 673.138
 -CY13- GRADE DATA

W.P. #4
 STA. 23+95.000 - CY13-
 VC STA. 23+95.000
 ELEV. 644.54
 -CY13- GRADE DATA

W.P. #4
 STA. 23+95.000 - CY13-
 VC STA. 23+95.000
 ELEV. 644.54
 -CY13- GRADE DATA

W.P. #4
 STA. 23+95.000 - CY13-
 VC STA. 23+95.000
 ELEV. 644.54
 -CY13- GRADE DATA

W.P. #4
 STA. 23+95.000 - CY13-
 VC STA. 23+95.000
 ELEV. 644.54
 -CY13- GRADE DATA

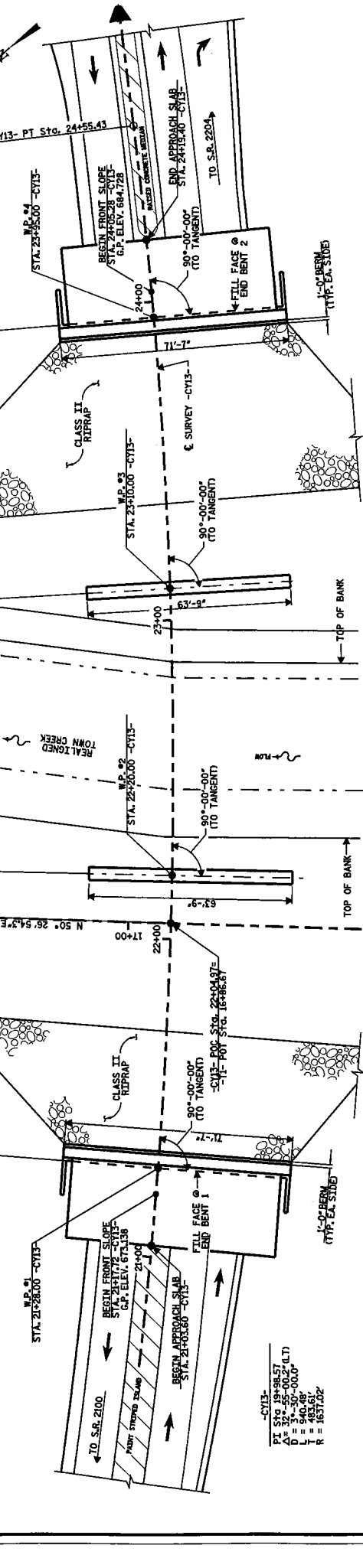


NOTES:
 THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE
 REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS
 FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC
 PERFORMANCE CATEGORY A.
 ASSUMED LIVE LOAD = HS20 OR ALTERNATE LOADING.

HYDRAULIC DATA
 DESIGN DISCHARGE = 1450 CFS
 DESIGN FLOOD = 50' H
 DESIGN HIGH WATER ELEVATION = 644.4
 DRAINAGE AREA = 16.3 SQ. MI.
 BASIC DISCHARGE (MOD) = 4160 CFS
 BASIC HIGH WATER ELEVATION = 646.2

OVERTOPPING FLOOD DATA
 W/A CFS
 FREQUENCY OF OVERTOPPING FLOOD = 500+ YR
 OVERTOPPING FLOOD ELEVATION = 661.3

PLAN
 SECTION ALONG SURVEY -CY13-
 BENTS ON SECTION AT RIGHT ANGLES TO BENTS



W.P. #1
 STA. 21+28.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 21+17.72 - CY13-
 G.P. ELEV. 673.138

W.P. #2
 STA. 22+00.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 21+17.72 - CY13-
 G.P. ELEV. 673.138

W.P. #4
 STA. 23+95.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 23+85.28 - CY13-
 G.P. ELEV. 644.728

W.P. #4
 STA. 23+95.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 23+85.28 - CY13-
 G.P. ELEV. 644.728

W.P. #4
 STA. 23+95.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 23+85.28 - CY13-
 G.P. ELEV. 644.728

W.P. #4
 STA. 23+95.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 23+85.28 - CY13-
 G.P. ELEV. 644.728

W.P. #4
 STA. 23+95.000 - CY13-
 BEGIN FRONT SLOPE
 STA. 23+85.28 - CY13-
 G.P. ELEV. 644.728

N.C.D.O.T.
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 19 OF 35
 REVISED 8/10/05

N.T.S.

** ARC DIMENSION ALONG ϵ SURVEY -CY13-

-T1- N 60° 54' 11.4" E

R. L. RUSHER AND WIFE

STELLA MAE RUSHER

DB 428 PG 213

79.65 AC

27

MATCHLINE CC-CC

TIE TO EXISTING STREAM BANK

TOWN CREEK

-CRPIA-
SRSta. 24+60.65

-CRPIA-
SCSta. 26+60.65

MATCHLINE 27+00 -CRPIA-

2 ELBOWS

SITE 5D
PLAN VIEW

60 30 0 60

GRAPHIC SCALE 1" = 60'

DENOTES FILL IN SURFACE WATER

DENOTES TEMPORARY FILL IN SURFACE WATER

NCDOT

DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE

FERRY RD) TO NORTH OF SR 2120

(LONG FERRY RD) NEAR SPENCER

SHEET 20 OF 35

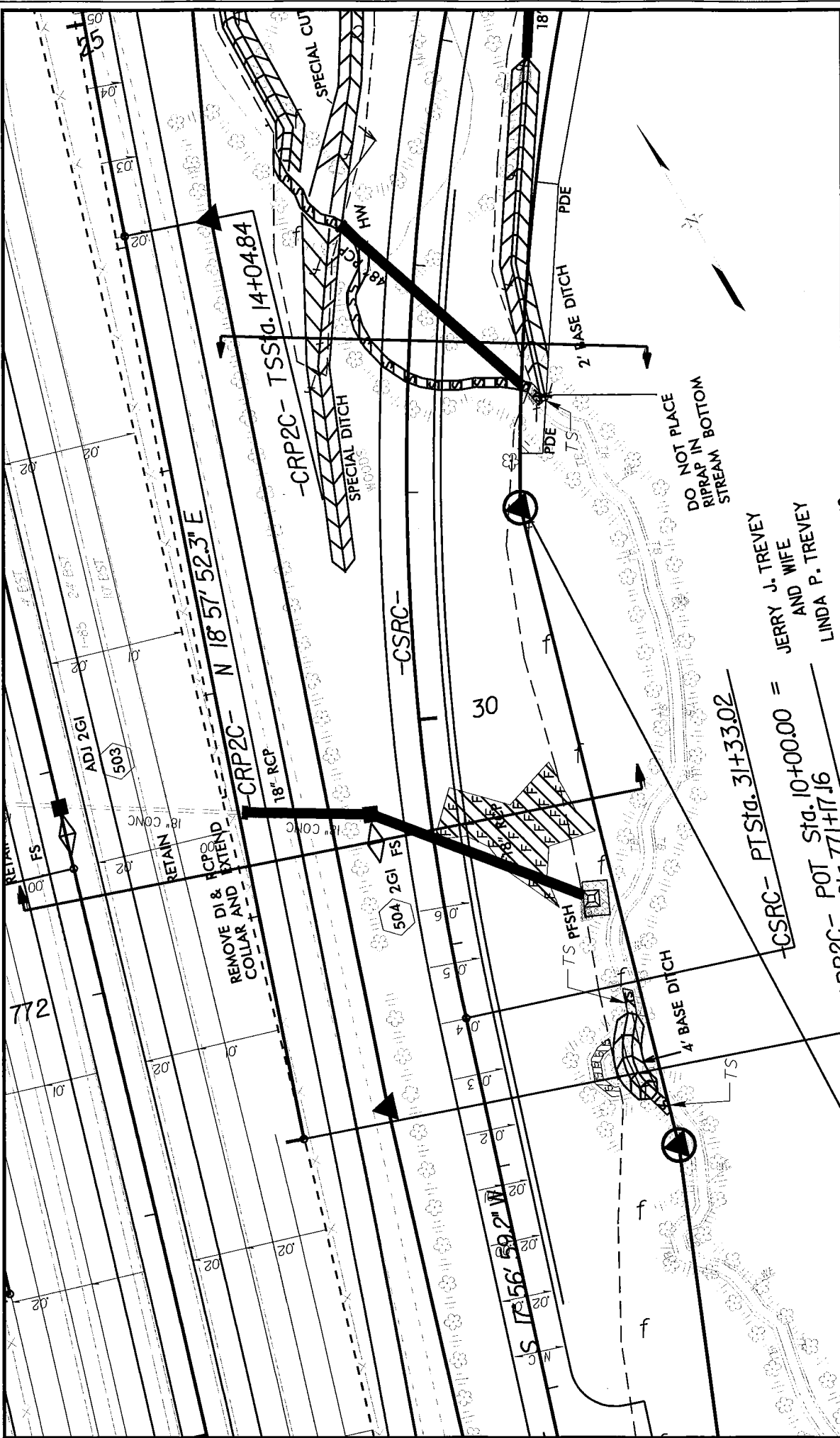
REVISED 8/10/05

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-251CB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 21 OF 35 DATE 8/10/05

**SITE 6
PLAN VIEW**



DO NOT PLACE
RIPRAP IN
STREAM BOTTOM

JERRY J. TREVEY
AND WIFE
LINDA P. TREVEY

JAMES E. EPTING
AND WIFE
HAZEL F. EPTING
DB. 624 PG. 601
DB 750 PG. 104.90 AC

40

-CSRC- PT Sta. 31+33.02

-CRP2C- POT Sta. 10+00.00 =

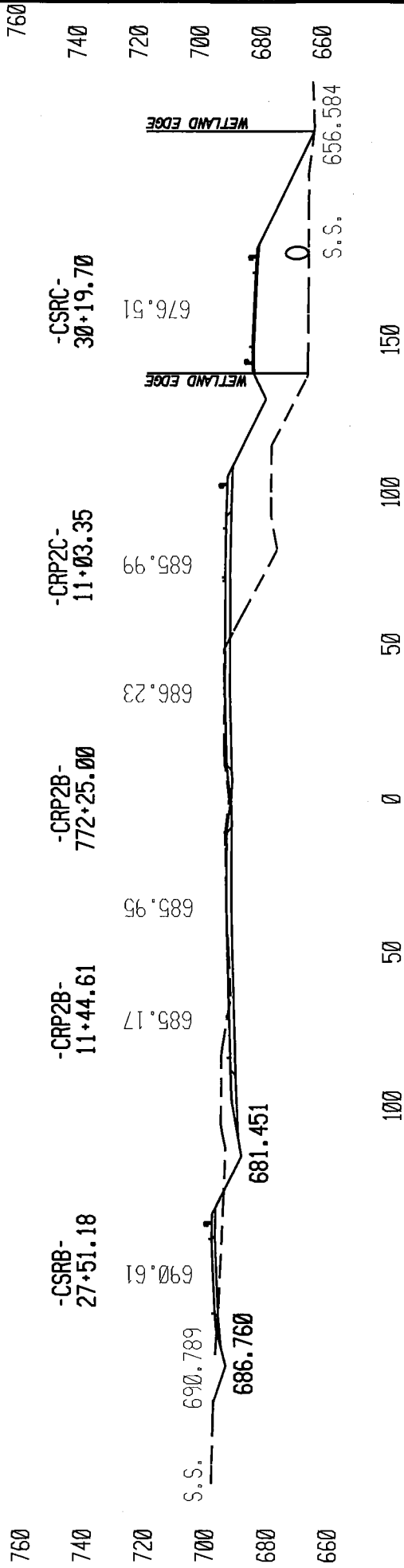
-CL- POS Sta. 771+17.16

$\Delta = 2'18''$ (71' RT.)

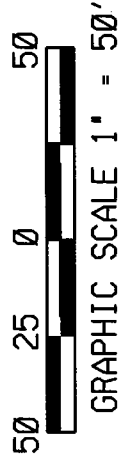


GRAPHIC SCALE 1" = 60'

- DENOTES FILL IN SURFACE WATER
- DENOTES TEMPORARY FILL IN SURFACE WATER
- DENOTES FILL IN WETLAND



SITE 6 CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (1-251ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 22 OF 35
 DATE 8/10/05

760
740
720
700
680
660

-CSRC-
28+50.00

677.48

S.S.
659.217

S.S.
669.800

100 50 0 50 100 150

SITE 6 CROSS SECTION VIEW

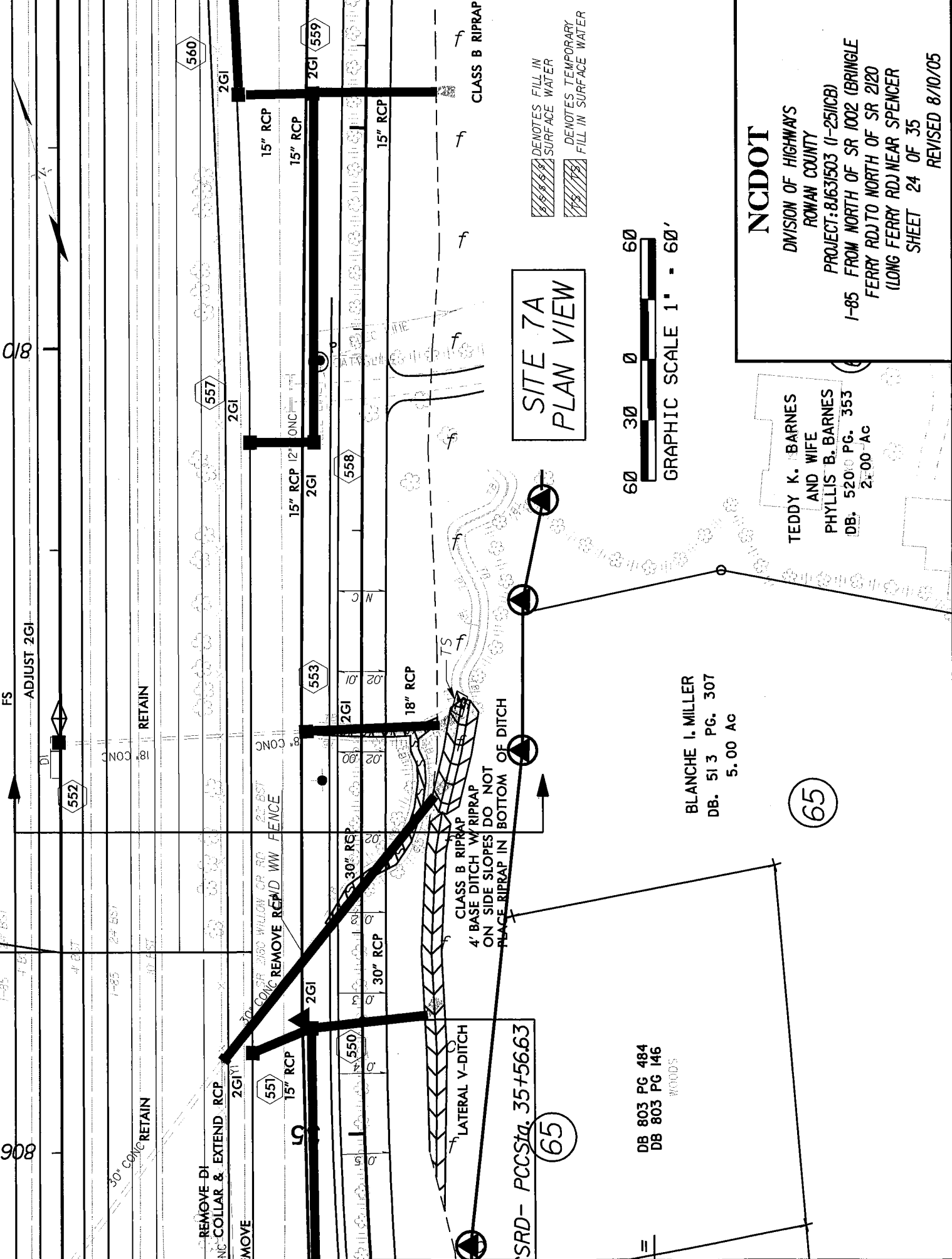


GRAPHIC SCALE 1" = 50'

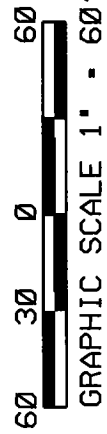
NCDOT

DIVISION OF HIGHWAYS
ROMAN COUNTY

PROJECT: 81631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 23 OF 35 DATE 8/10/05



**SITE 7A
PLAN VIEW**



 DENOTES FILL IN SURFACE WATER
 DENOTES TEMPORARY FILL IN SURFACE WATER

NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD.) TO NORTH OF SR 2120 (LONG FERRY RD.) NEAR SPENCER
 SHEET 24 OF 35
 REVISED 8/10/05

TEDDY K. BARNES
 AND WIFE
 PHYLLIS B. BARNES
 DB. 520 PG. 353
 2.00 AC

BLANCHE I. MILLER
 DB. 513 PG. 307
 5.00 AC

(65)

SRD - PCC Sta. 35+56.63

DB 803 PG 484
 DB 803 PG 146
 WOODS

(65)

908

018

FS
ADJUST 2GI

RETAIN

RETAIN

REMOVE DI
NC COLLAR & EXTEND RCP

MOVE

REMOVE RCP
CONC OR 30\"/>

REMOVE RCP
CONC

REMOVE RCP
CONC

LATERAL V-DITCH

CLASS B RIPRAP
 4' BASE DITCH W/ RIPRAP
 ON SIDE SLOPES DO NOT
 PLACE RIPRAP IN BOTTOM OF DITCH

18\"/>

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CLASS B RIPRAP

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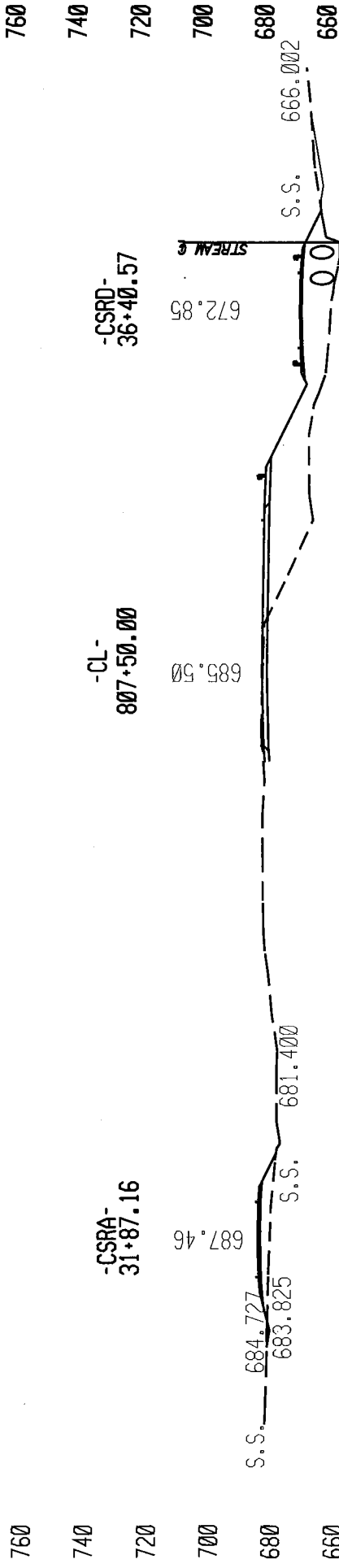
787

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790

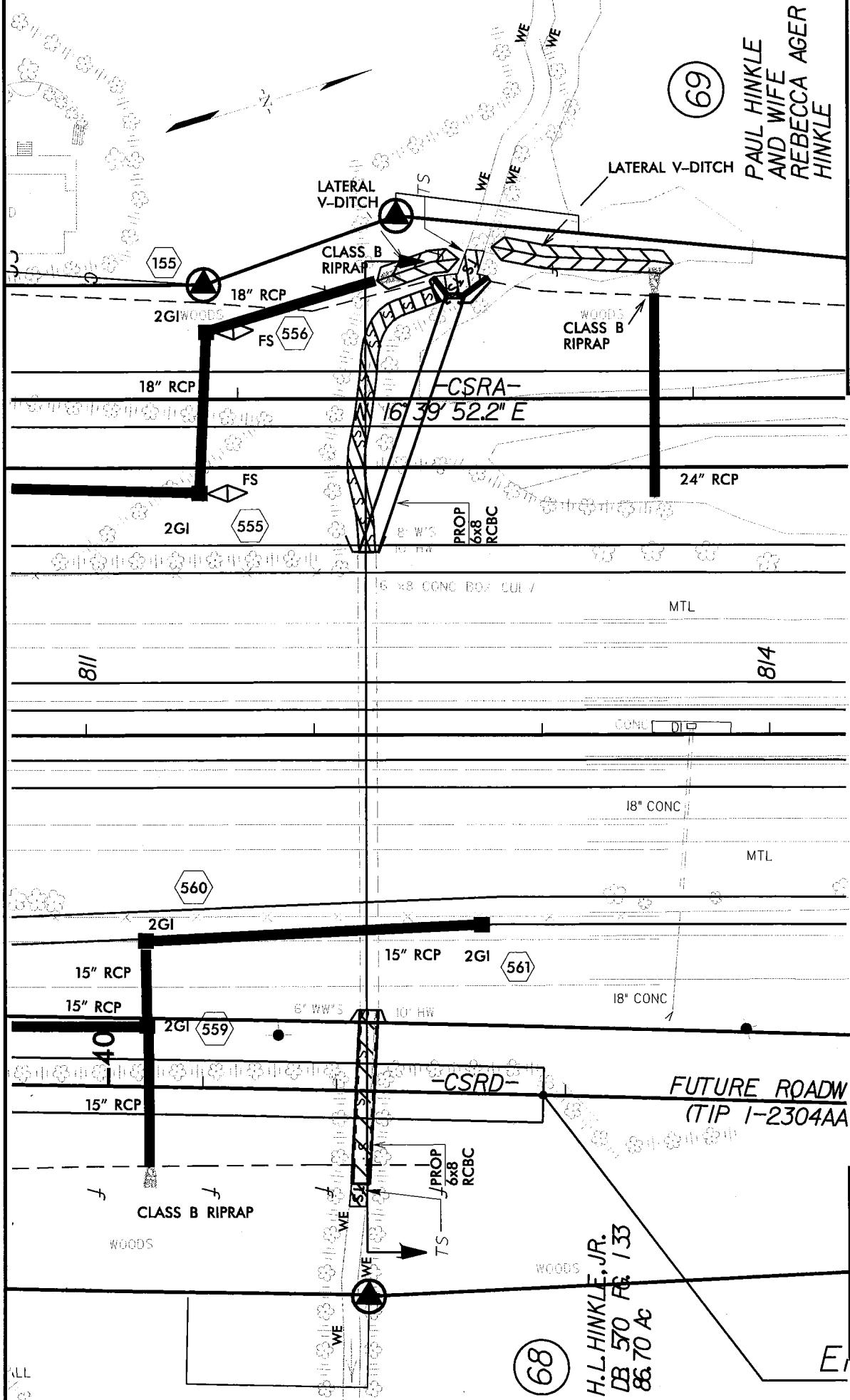
791



SITE 7A CROSS SECTION VIEW



NC DOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 25 OF 35
 DATE 8/10/05



69

PAUL HINKLE
AND WIFE
REBECCA AGER
HINKLE

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 26 OF 35
REVISED 8/10/05

-CSRA-
16' 39" 52.2" E

6" x 8" CONC BOX CUL /

MTL

8/4

18" CONC

MTL

560

2GI

15" RCP

15" RCP

40

15" RCP

CLASS B RIPRAP

WOODS

15" RCP

2GI

561

6" WW'S

10" HW

18" CONC

-CSRD-

FUTURE ROADW
(TIP I-2304AA)

PROP
6x8
RCBC

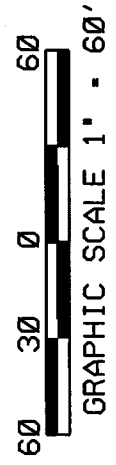
TS

WOODS

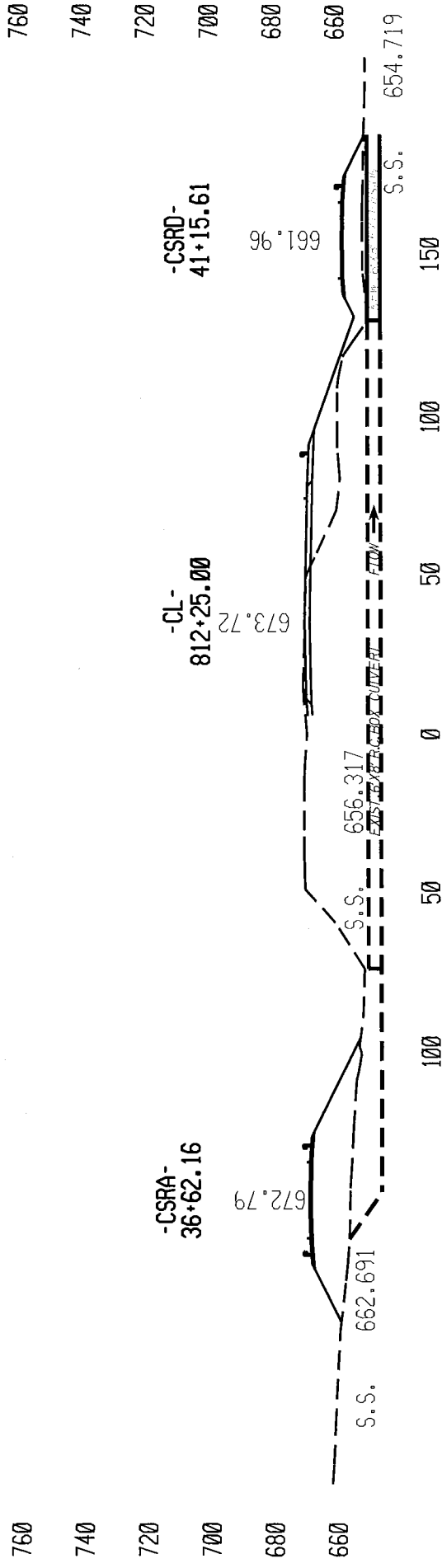
H.L. HINKLE, JR.
DB 570 PG 133
88.70 AC

68

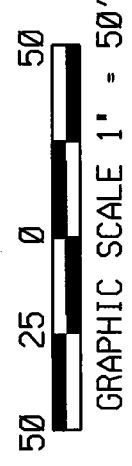
SITE 7B
PLAN VIEW



DENOTES FILL IN SURFACE WATER
DENOTES TEMPORARY FILL IN SURFACE WATER



SITE 7B CROSS SECTION VIEW

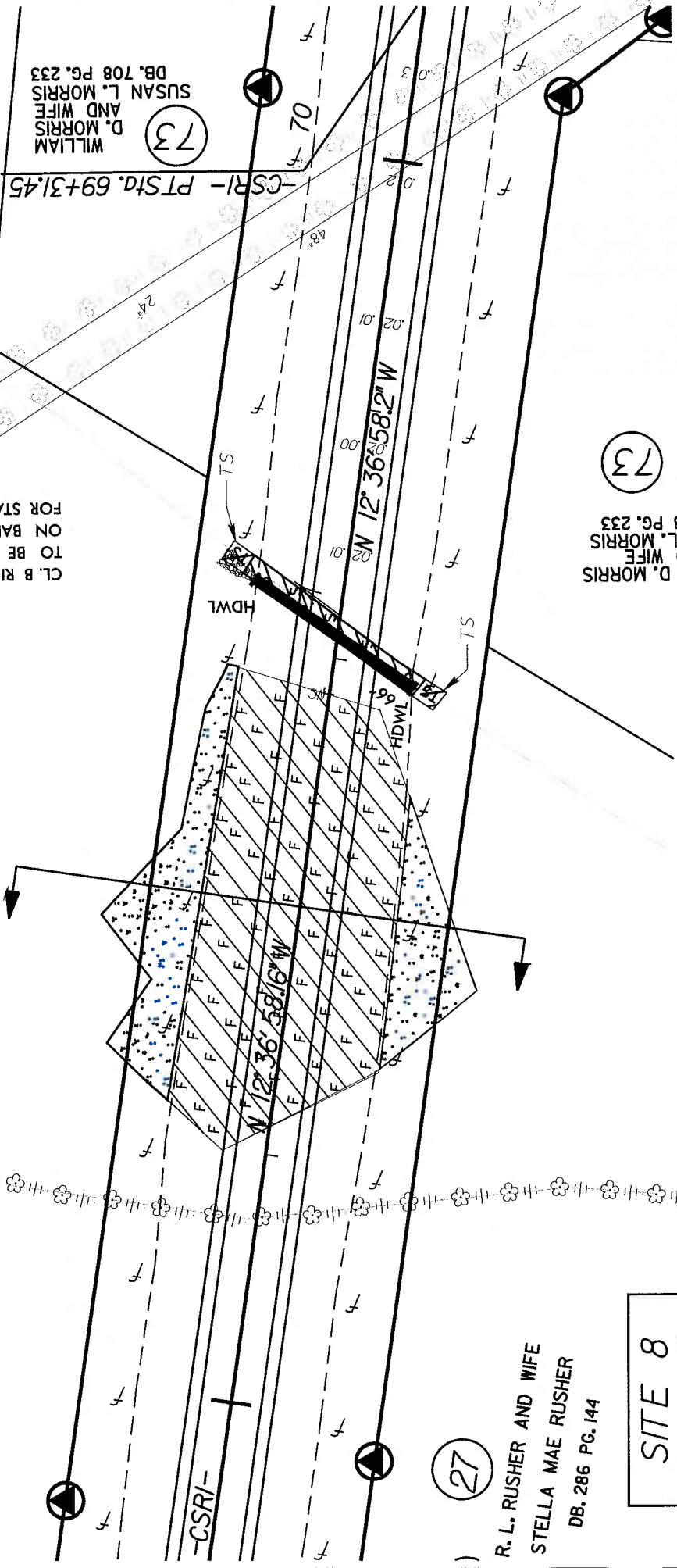


NC DOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 27 OF 35
 DATE 8/10/05

(27)
 R. L. RUSHER AND WIFE
 STELLA MAE RUSHER
 DB. 286 PG. 144
 11.40 AC

75





R. L. RUSHER AND WIFE
 STELLA MAE RUSHER
 DB. 286 PG. 144
 11.40 AC



SITE 8
 PLAN VIEW



GRAPHIC SCALE 1" = 60'

-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES TEMPORARY FILL IN SURFACE WATER

NCDOT

DIVISION OF HIGHWAYS
 ROWAN COUNTY

PROJECT: 81631503 (1-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER

SHEET 28 OF 35
 REVISED 8/10/05

(14)
 ROBERT LEE RUSHER AND WIFE
 1.74 AC

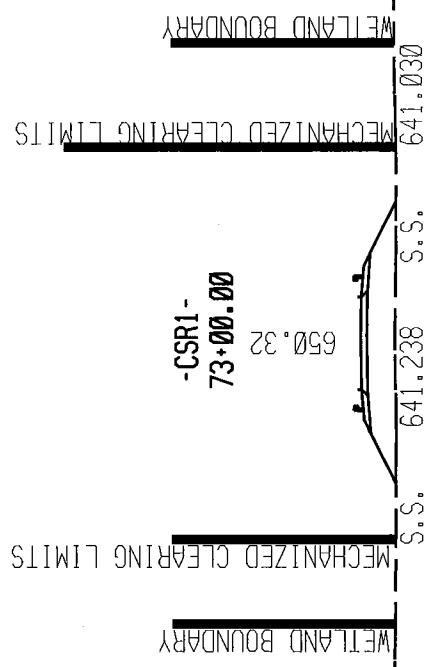
(73)
 WILLIAM
 D. MORRIS
 AND WIFE
 SUSAN L. MORRIS
 DB. 708 PG. 233

(73)
 WILLIAM D. MORRIS
 AND WIFE
 SUSAN L. MORRIS
 DB. 708 PG. 233

CL. B RIP RAP
 TO BE PLACED
 ON BANKS ONLY
 FOR STABILIZATION

760
740
720
700
680
660
640

760
740
720
700
680
660
640



100 50 0 50 100 150

SITE 8 CROSS SECTION VIEW



GRAPHIC SCALE 1" = 50'

NCDOT
DIVISION OF HIGHWAYS
ROWAN COUNTY
PROJECT: 81631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 29 OF 35
DATE 8/10/05

36

ARCHIBALD LEROY JARRELL III
DB. 623 PG. 192
18.57 AC

END. WW FENCE
CLASS B RIPRAP
EST. 3 TONS
EST. 10 .SY.F.F.

FLOODPLAIN
BENCHES

CLASS B RIPRAP
EST. 2 TONS
EST. 7 .SY.F.F.

PROP EXTENSION
4 - 13' x 11' RCBC

LATERAL BASE DITCH

265

264

262

750

18"

263

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NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (1-25)(CB)

1-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 32 OF 35

REVISED 8/10/05

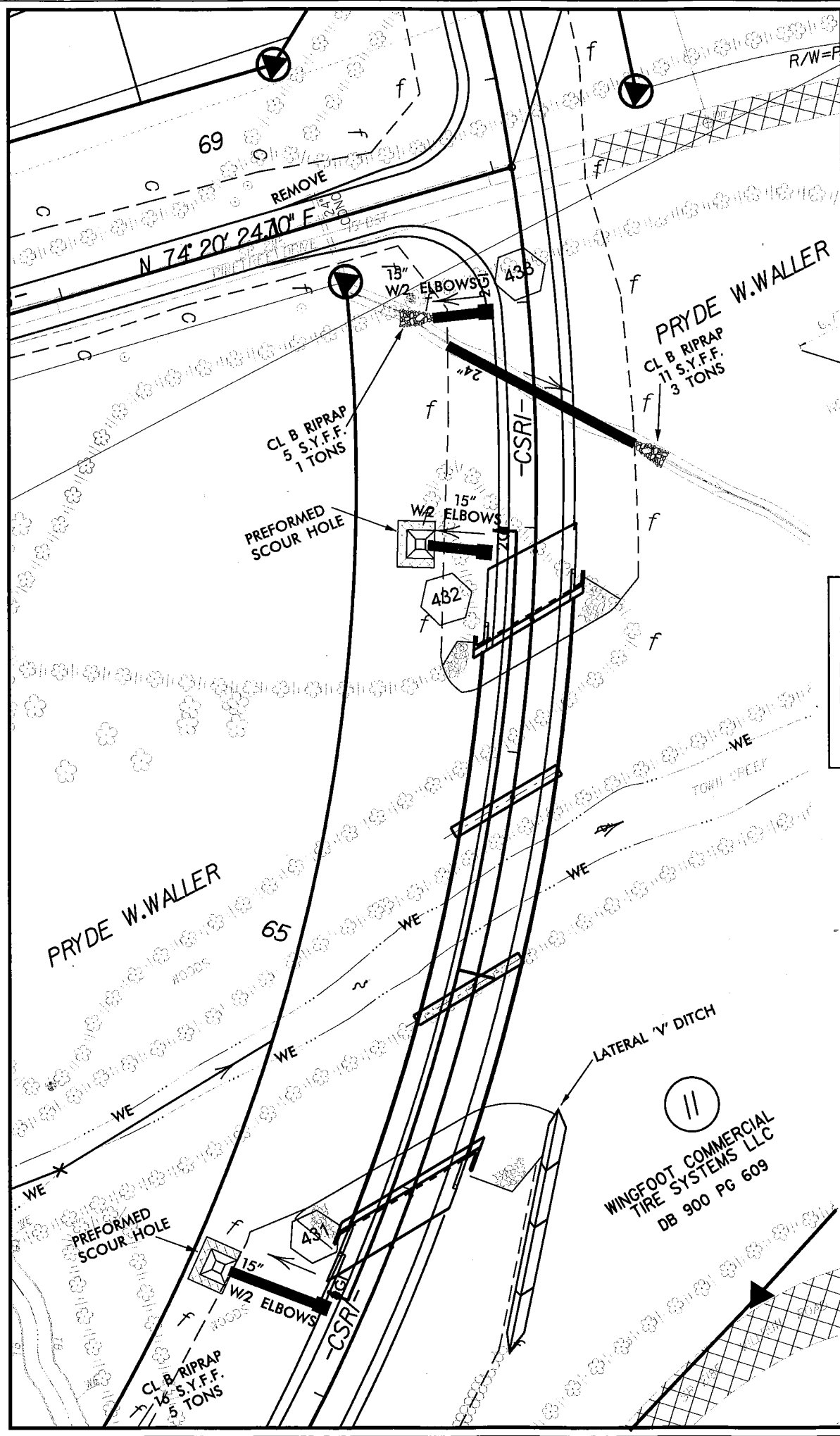
**SITE 10
PLAN VIEW**



GRAPHIC SCALE 1" = 60'

 DENOTES EXISTING ROADWAY
TO BE ABANDONED

 DENOTES TEMPORARY
FILL IN SURFACE WATER



N 74° 20' 24.70" E

REMOVE

69

15" W/2 ELBOWS

433

PRYDE W. WALLER

CL B RIPRAP
11 S.Y.F.F.
3 TONS

CL B RIPRAP
5 S.Y.F.F.
1 TONS

PREFORMED
SCOUR HOLE

15" W/2 ELBOWS

432

PRYDE W. WALLER

65

LATERAL 'V' DITCH

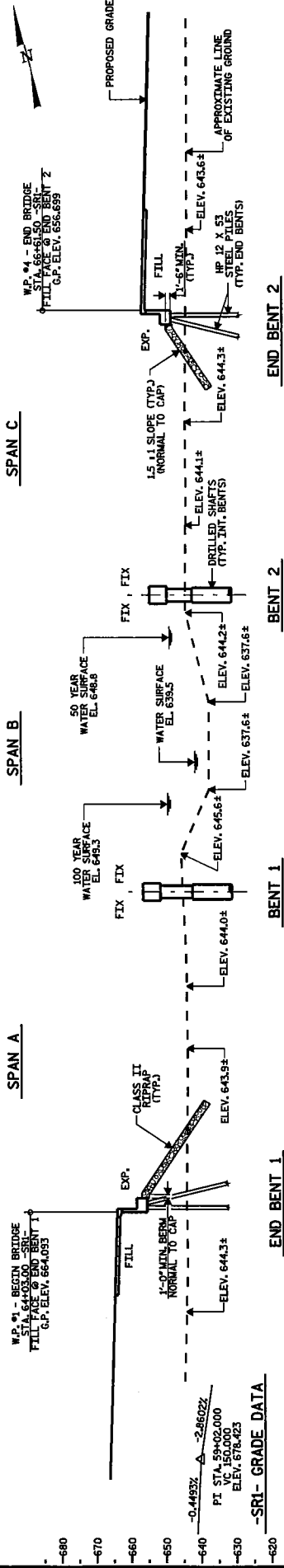
WINGFOOT COMMERCIAL
TIRE SYSTEMS LLC
DB 900 PG 609

PREFORMED
SCOUR HOLE

15" W/2 ELBOWS

431

CL B RIPRAP
16 S.Y.F.F.
5 TONS

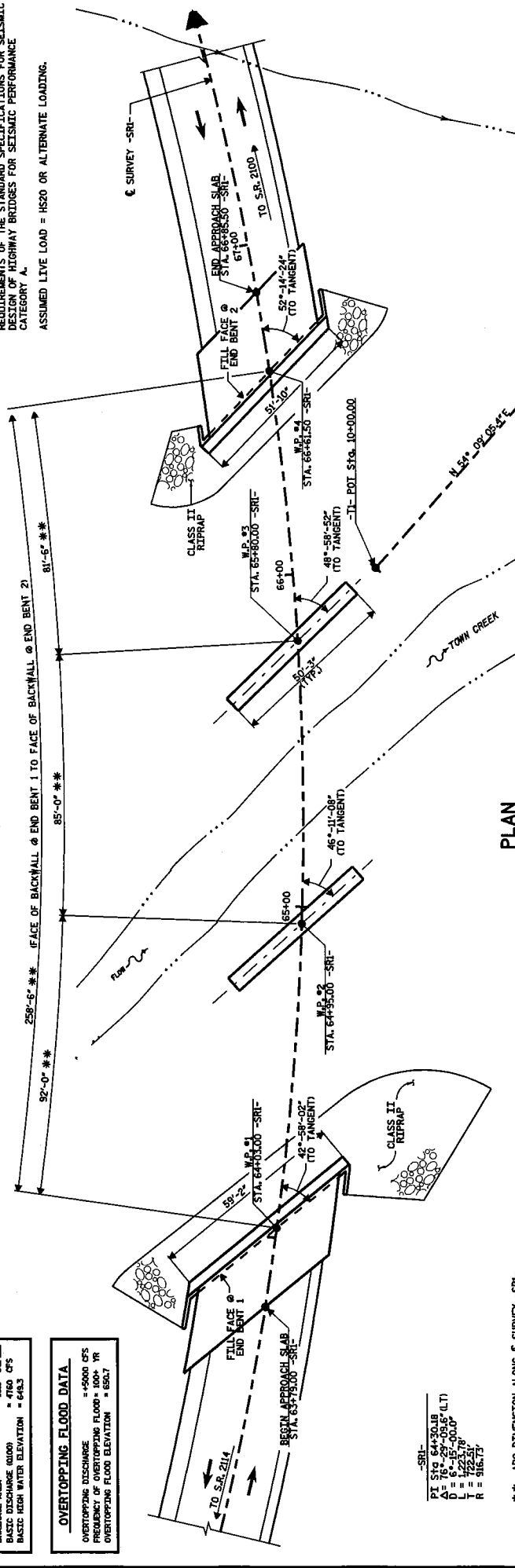


SECTION ALONG SURVEY -SRI-
BENTS ON SECTION AT RIGHT ANGLES TO BENTS

HYDRAULIC DATA	
DESIGN DISCHARGE	= 450 CFS
FREQUENCY OF DESIGN FLOOD	= 50 YR
DESIGN HIGH WATER ELEVATION	= 648.9
DRAINAGE AREA	= 16.3 SQ. MI.
BASE FLOOD DISCHARGE (1000)	= 4760 CFS
BASE FLOOD HIGH WATER ELEVATION	= 649.3

OVERTOPPING FLOOD DATA	
OVERTOPPING DISCHARGE	= +5000 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 1000 YR
OVERTOPPING FLOOD ELEVATION	= 650.7

NOTES:
THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.
ASSUMED LIVE LOAD = HS20 OR ALTERNATE LOADING.



PLAN

** ARC DIMENSION ALONG ϵ SURVEY -SRI-

PI	= 512.24'-59.81' (LT)
D	= 6'-15"-00.00"
L	= 1'-22.37"
R	= 916.71'

NCDOT
DIVISION OF HIGHWAYS
ROWAN COUNTY
PROJECT: 81631503 (1-2511CB)
1-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
SHEET 33 OF 35
REVISED 8/10/05

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS					
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)			
1	647+50-L-(LT/RT)	30" RCP	0	0	0	0	0	0.004	102	0				
2	680+00-L-(LT/RT)	30" RCP	0	0	0	0	0.080	0.002	163	0				
3	49+27-CRSI-(LT)	18" RCP	0	0	0	0	0.007	0.001	80	0				
4	CRPC 16+00	18" RCP	0	0	0	0.002	0.080	0.002	90	0				
5	CRP18 18+00 to CRP1A 28+00	NONE	0	0	0	0	0.640	0	864	1375				
6	31+40 -CSRC- (LT)	NONE	0.047	0	0	0	0.009	0.001	200	0				
7A	807+50-L- (RT)	18"/30" RCP	0	0	0	0	0.080	0.001	162	0				
7B	812+23 -L- (LT/RT)	6"x8" RCBC	0	0	0	0	0.030	0.005	200	0				
8	73+00 -CSRI-	NONE	0.3	0	0	0.17	0.080	0.004	65	0				
9	752+65.65-L-(LT/RT)	4.11'x3' RCBC	0	0	0	0	0.100	0.027	114	0				
10	63+57.5 to 66+59.5 CSRI	3-span bridge	0	0	0	0	0.000	0	0	0				
TOTALS:			0.347	0	0	0.172	0.866	0	2080	1375				

SITE 3: 80ft. Does not require mitigation.

SITE 6: 163ft. Does not require mitigation.

37ft. Does require mitigation

SITE 7A: 162ft. Does not require mitigation.

SITE 8: 85ft. Does not require mitigation.

Temporary in-stream work areas = 200 linear feet (0.047 acres).

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 34 OF 35

REVISED 8/10/05

<u>PARCEL NO.</u>	<u>NAMES</u>	<u>ADDRESSES</u>
1	KEVIN CAHOON	P.O.BOX 1155 THOMASVILLE N.C.27360
2	JAMES E.SMITH	453 STEEPLECHASE TRAIL SALISBURY N.C.28144
9	WALLACE PROPERTIES	301 N.MAIN ST.SALISBURY N.C.28145-0102
10	VOYLS W.& SHARON TYSINGER	740 CHOATE RD.SALISBURY N.C.28146
12	NEW HOPE BAPTIST CHURCH	830 CHOATE RD.SALISBURY N.C.28146
16	OLIN E.STAMPER & WIFE	308 HENDERSON ST.SALISBURY N.C.28144
14,17,27	ROBERT LEE & STELLA RUSHER	721 ANDREWS ST.SALISBURY N.C.28144-8714
28	CECIL B.DAY COMPANIES,INC.	7000 CENTRAL PARKWAY NE STE.850 ATLANTA G.A.30328
29	DEBORAH T.AREY	2685 PROVIDENCE CHURCH RD.SALISBURY N.C.28146
37	BURLENA N.LYERLY	1031 OLD MOCKSVILLE RD.SALISBURY N.C.28144
65	MARY LONG	OVERHILL DR.SALISBURY N.C.28144
67	TEDDY BARNES & WIFE	405 WILLOW CREEK DR.SALISBURY N.C.28146-2469
18A	CLARICE H.& KAREN L.ROE	2 LAUREL BROOK CT.GREENSBORO,N.C.27407-5037
40	JERRY J.TREVEY & WIFE JAMES E.EPLING & WIFE	427 RICHMOND RD.SALISBURY N.C.28146
68	H.L.HINKLE JR.	655 HACKETT ST.SALISBURY N.C.28146
69	PAUL HINKLE & WIFE	445 HINKLE LN.SALISBURY N.C.28146
73	WILLIAM D.MORRIS & WIFE	110 SCOTTSDALE DR.SALISBURY N.C.28146

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-2511CB)

1-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

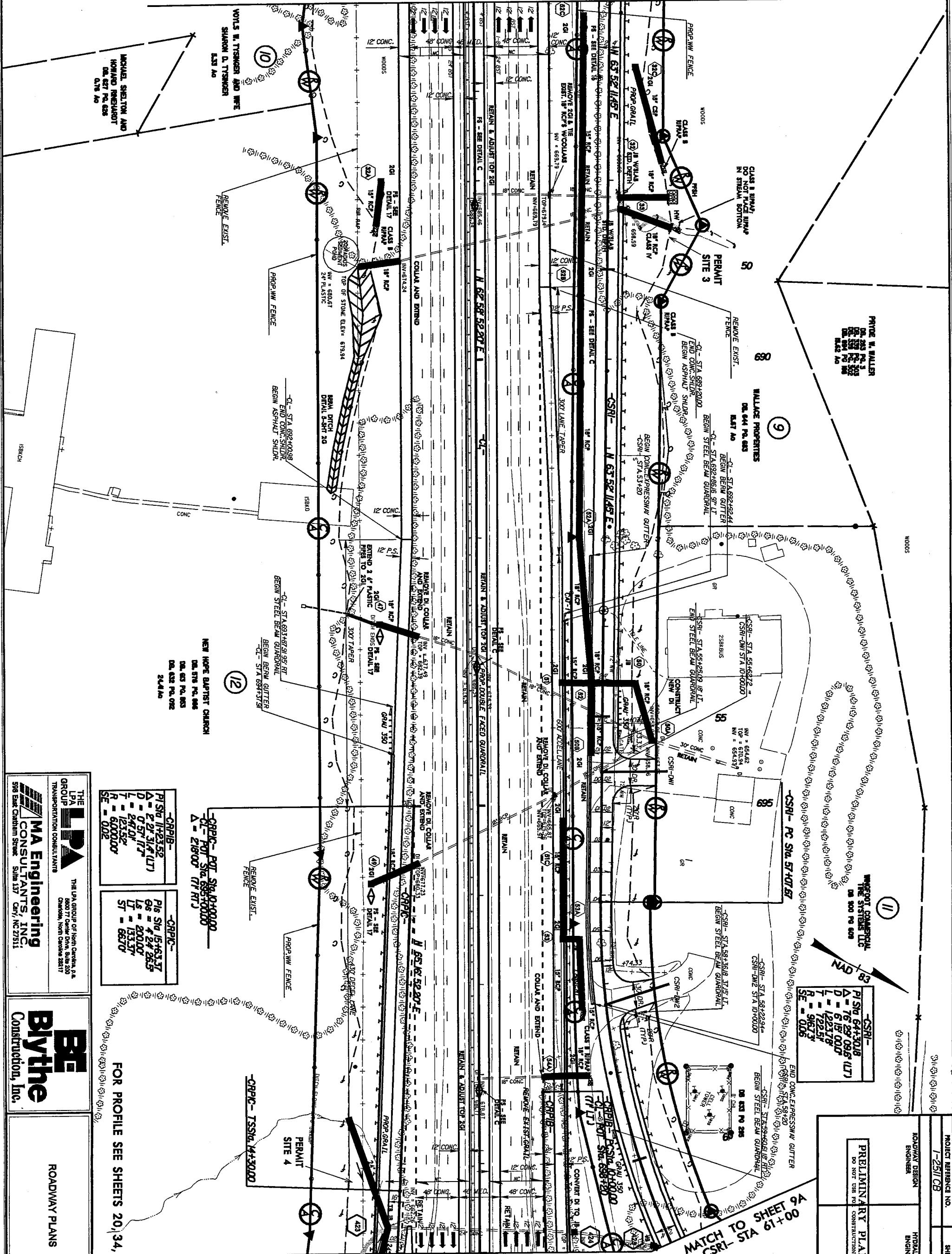
SHEET 35 OF 35

REVISED 8/10/05

REVISIONS

18-JUL-2005 13:30
c:\proj\proj\working\dbaysden\dms00199\cb00.psh
dbaysden AT 1 PA226538

MATCH TO SHEET 7 STA. 686+00 -CL-



MATCH TO SHEET 9A STA. 700+00 -CL-

MATCH TO SHEET 9A
CSRI- STA 61+00

THE LPA GROUP
TRANSPORTATION CONSULTANTS

MA Engineering CONSULTANTS, INC.
598 East Carolina Street
Suite 137
Cary, NC 27511

THE LPA GROUP OF North Carolina, P.A.
1800 77th Center Drive, Suite 210
Chapel Hill, North Carolina 27517

BE Bythe Construction, Inc.
ROADWAY PLANS

FOR PROFILE SEE SHEETS 20, 34, 35, 39

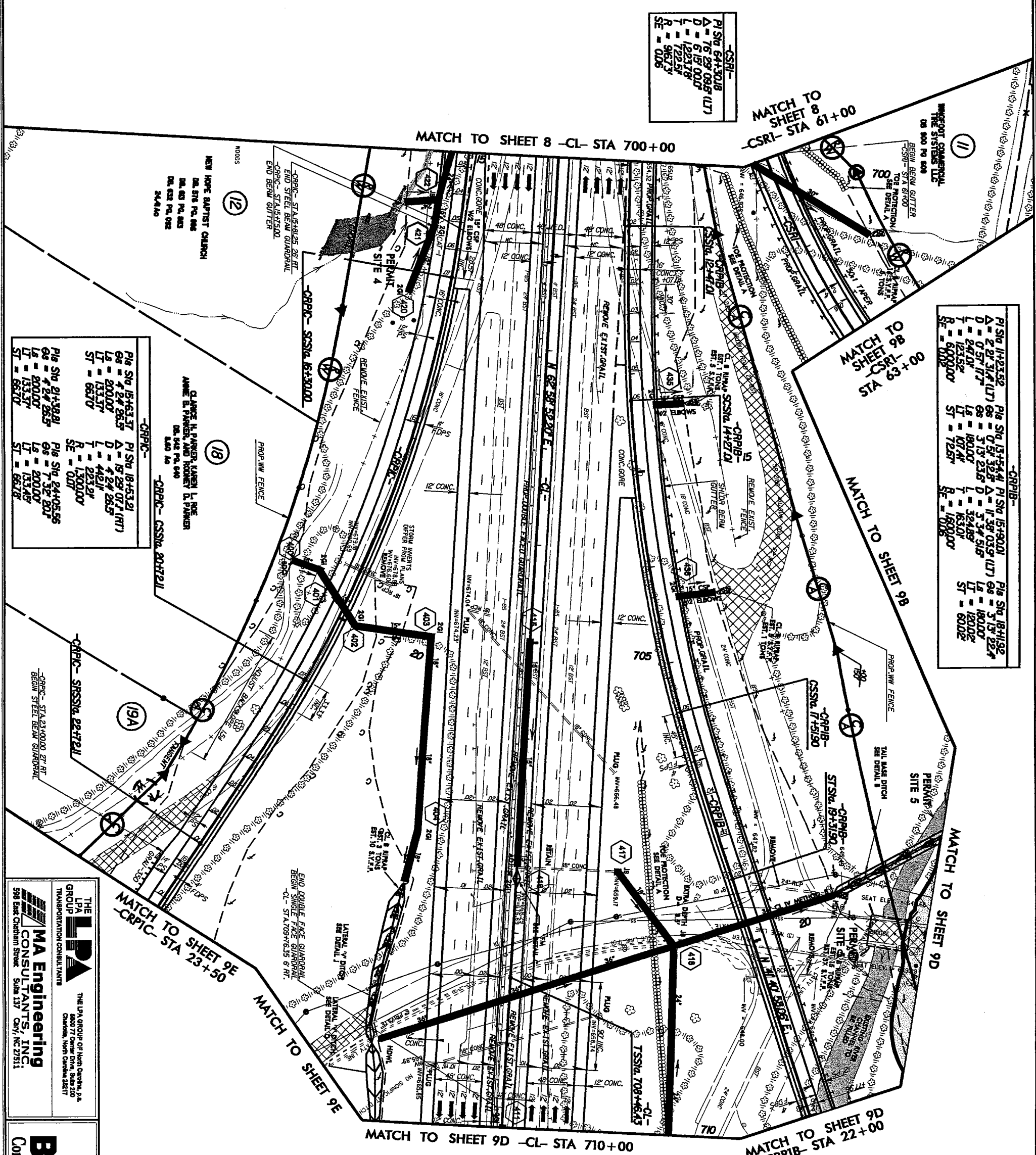
<p>CRPIB- P1 Sta 11+23.52 Δ = 2' 31.6" (LT) D = 0.57' (RT) L = 247.0' T = 123.52' R = 6000.00'</p>	<p>CRPIB- P6 Sta 15+63.37 Δ = 4' 24.86" D = 200.00' L = 133.37' T = 68.70' R = 68.70'</p>
--	---

<p>CRPIC- POT Sta. 695+00.00 Δ = 2' 18.00" (RT)</p>

<p>CRPIC- TSSIA Sta. 69+30.00</p>

<p>CSRI- P1 Sta 64+30.8 Δ = 76' 99" (09.6' LT) D = 6' 18" (00.6' L = 1223.78' T = 722.57' R = 946.73' SE = 0.06</p>

PROJECT REFERENCE NO. I-25/I-85	SHEET NO. 8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



-CSRI-

Pile Sta 64+30.8
A = 76.29' (0.81' LT)
D = 6.15' (0.07')
L = 1223.78'
T = 722.57'
R = 96.73'
SE = 0.06'

-CRPB-

Pile Sta 14+23.52
A = 2.21' (0.17' LT)
D = 0.57' (0.04')
L = 247.01'
T = 123.52'
R = 60.00'
SE = 0.00'

Pile Sta 13+54.41

A = 11.38' (0.89' LT)
D = 3.13' (0.23')
L = 180.00'
T = 107.41'
R = 72.87'
SE = 0.00'

Pile Sta 15+90.01

A = 11.38' (0.89' LT)
D = 3.13' (0.23')
L = 180.00'
T = 107.41'
R = 72.87'
SE = 0.00'

Pile Sta 18+41.92

A = 3.17' (0.22')
D = 180.00'
L = 120.00'
T = 60.02'
SE = 0.00'

-CRPIC-

Pile Sta 15+63.37
A = 2.21' (0.17' LT)
D = 0.57' (0.04')
L = 133.37'
T = 66.70'
SE = 0.07'

Pile Sta 18+53.21

A = 19.29' (1.41' LT)
D = 0.24' (0.02')
L = 445.11'
T = 223.20'
R = 1,300.00'
SE = 0.07'

Pile Sta 24+05.56

A = 2.21' (0.17' LT)
D = 0.57' (0.04')
L = 133.37'
T = 66.70'
SE = 0.07'

-CL-

Pile Sta 70+86.44
A = 1.47' (0.09')
D = 360.00'
L = 2,400'
T = 120.00'

THE LPA GROUP
 TRANSPORTATION CONSULTANTS
 THE LPA GROUP OF North Carolina, P.A.
 1800 77 Center Drive, Suite 200
 Charlotte, North Carolina 28217

MA Engineering CONSULTANTS, INC.
 598 East Chatham Street
 Suite 137 Cary, NC 27511

BE Bytne Construction, Inc.
 ROADWAY PLANS

PAYMENT REMOVAL
 FOR PROFILE SEE SHEETS 21, 34, 35, 39

PROJECT REFERENCE NO.	1-2511/CB
SHEET NO.	9A
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

REVISIONS

-CSRI-	
PI STA	64430.8
Δ	16.29
D	6.19
L	1223.78
T	722.54
R	967.3
SE	0.06

-C148-	
PI STA	11482.75
Δ	38.33
D	11.4
L	343.23
T	78.40
R	500.0
SE	0.06

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THE LPA GROUP OF NORTH CAROLINA, P.A.
 TRANSPORTATION CONSULTANTS
 5517 Center Drive, Suite 200
 Charlotte, North Carolina 28217

MA Engineering
 CONSULTANTS, INC.
 598 East Carolina Street
 Suite 137
 Cary, NC 27511

BE
Bythe
 Construction, Inc.

ROADWAY PLANS

WHSOOT CONSULTANTS, INC. 500 PO BOX

WHSOOT CONSULTANTS, INC. 500 PO BOX

MATCH TO SHEET 9A

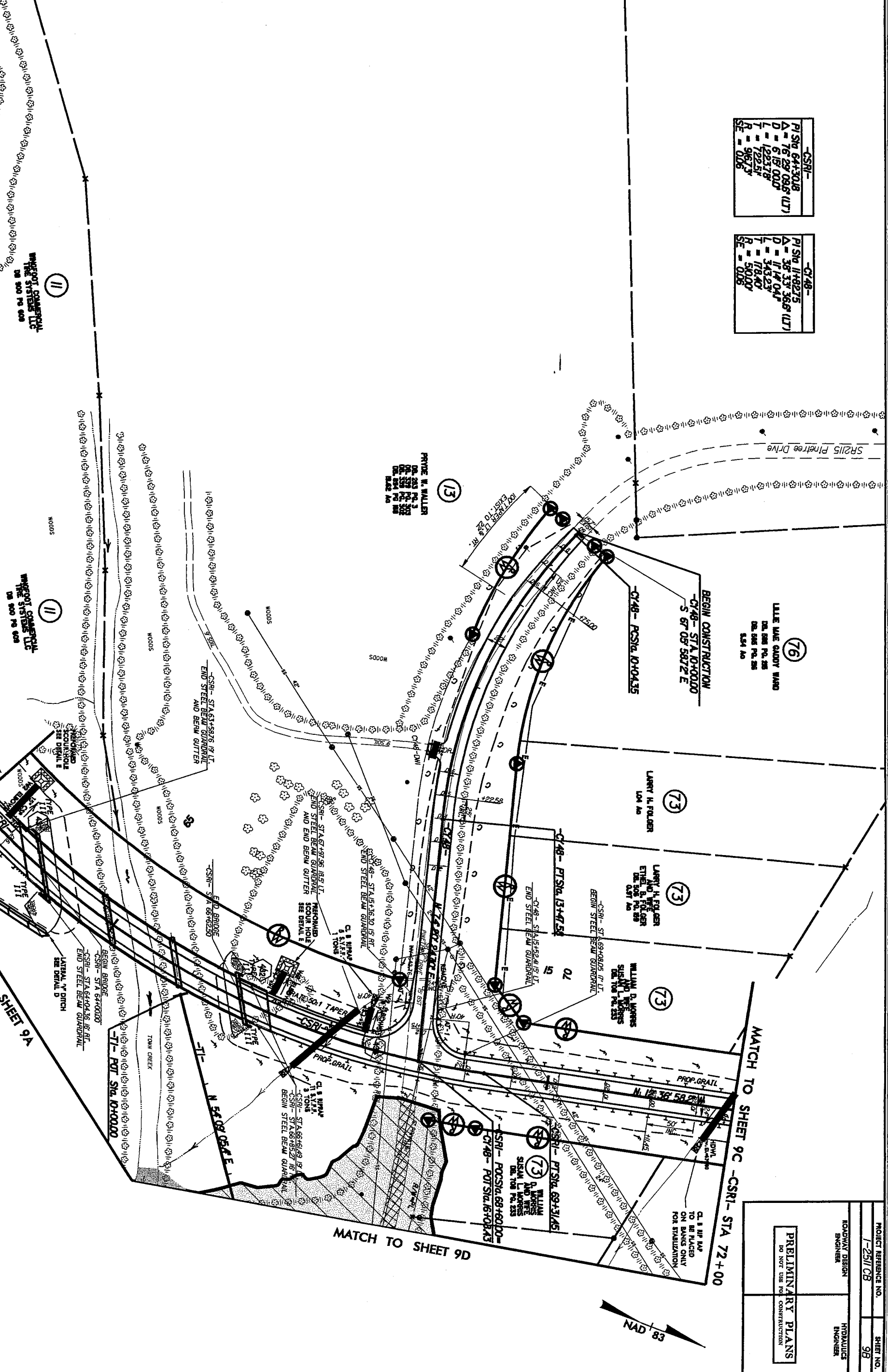
MATCH TO SHEET 9A

MATCH TO SHEET 9A

MATCH TO SHEET 9D

MATCH TO SHEET 9C -CSRI- STA 72+00

MATCH TO SHEET 9A



FOR PROFILE SEE SHEETS 38, 38A, 39, 40

PAVEMENT REMOVAL

PROJECT REFERENCE NO.	1-2511 CB	SHEET NO.	98
ROADWAY DESIGN ENGINEER		ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS	DO NOT USE FOR CONSTRUCTION		



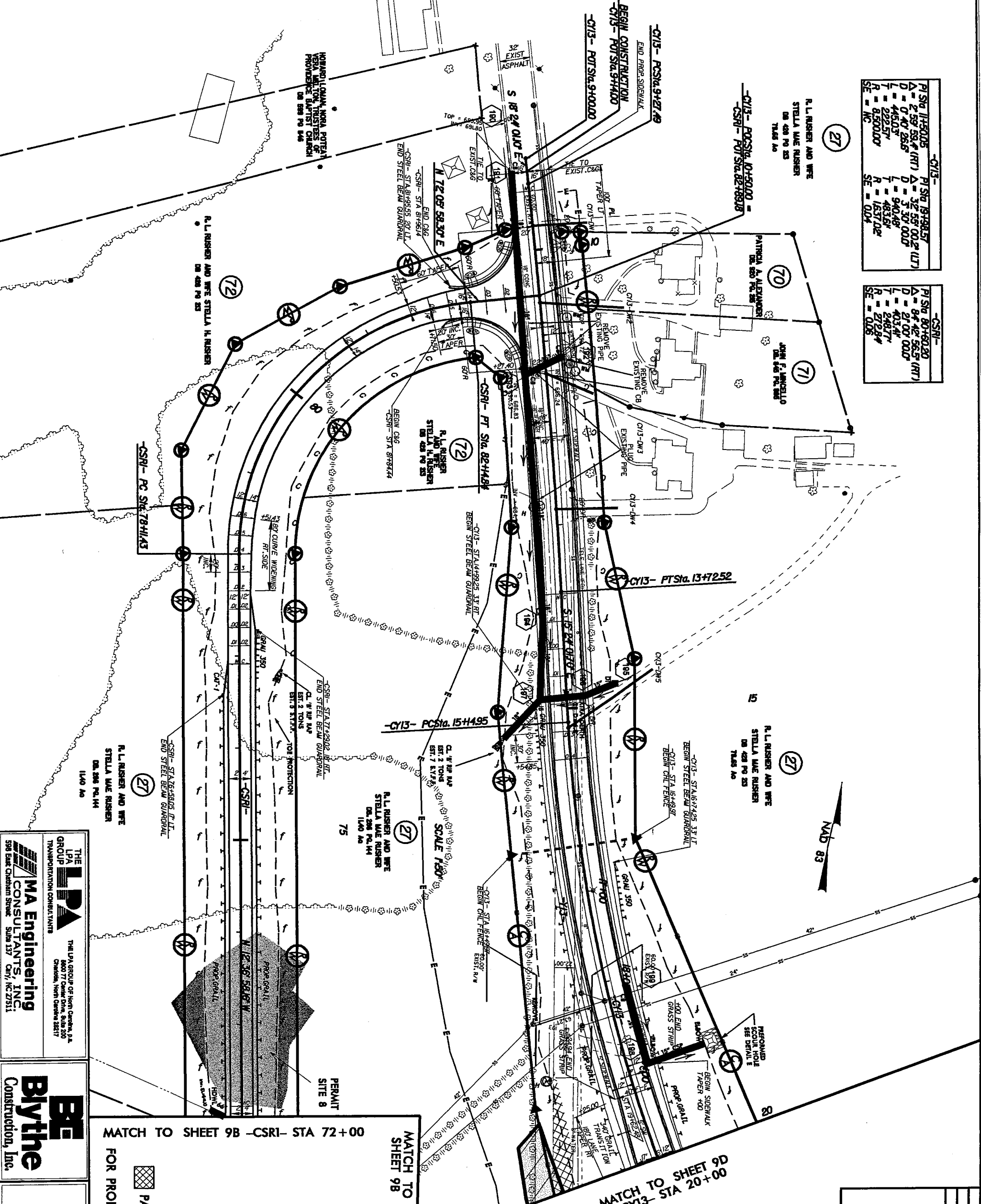
REVISIONS

-C13-

PI STA 11+50.05	PI STA 19+94.57
A = 2.59 59.4° (RT)	A = 32.55 00.2° (LT)
D = 0.40 28.6	D = 5.30 00.0
L = 44.03	L = 94.04
T = 222.57	T = 483.6
R = 8500.00	R = 1837.02
SE = MC	SE = 004

-CSRI-

PI STA 80+50.20	PI STA 84.42 56.5° (RT)
A = 84.42 56.5° (RT)	A = 21.00 00.0
D = 21.00 00.0	D = 40.34
L = 40.34	L = 248.77
T = 248.77	T = 272.84
R = 8500.00	R = 272.84
SE = 006	SE = 006



THE LPA GROUP
MA Engineering
 CONSULTANTS, INC.
 598 East Chatham Street
 Suite 137
 Cary, NC 27511

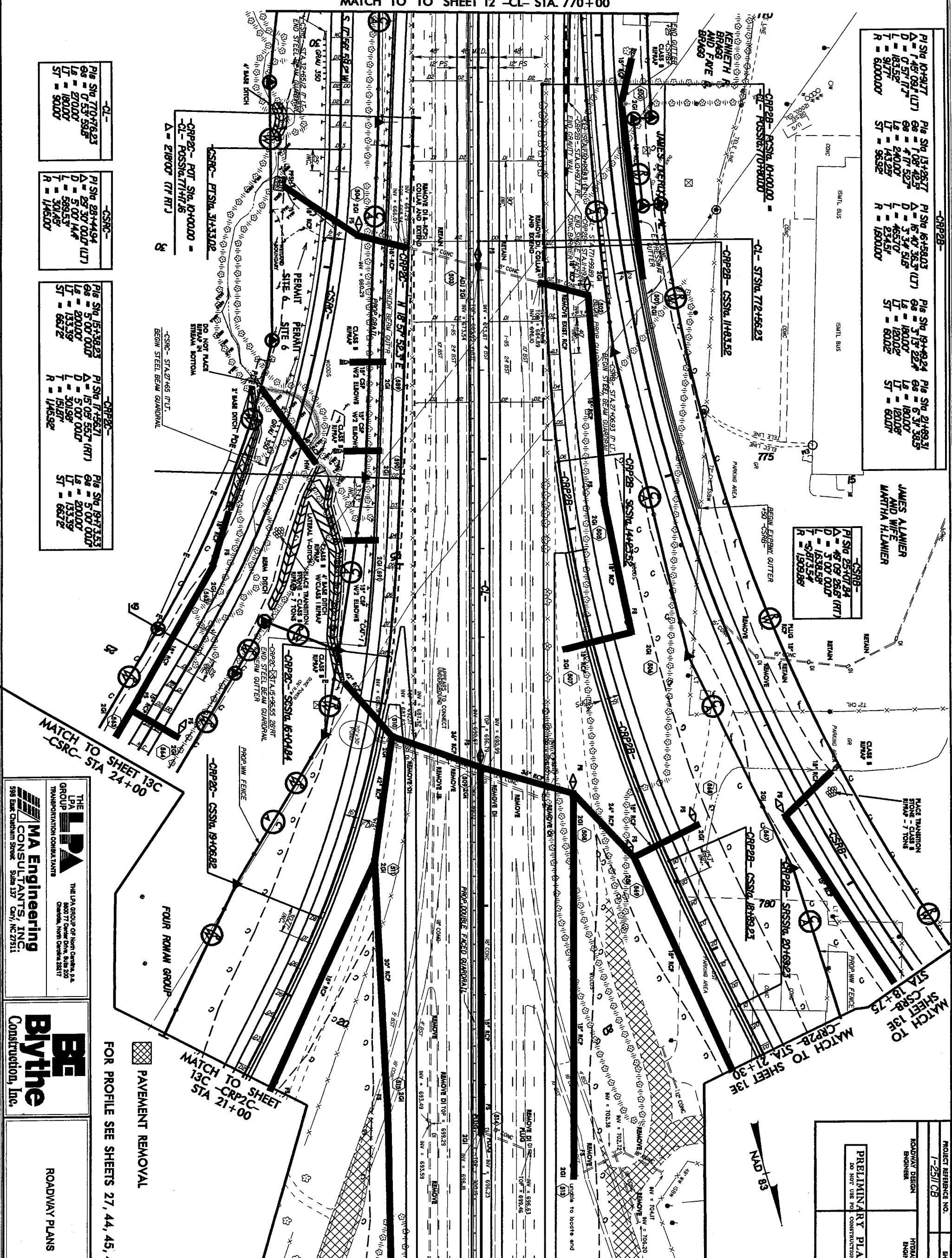
BE
Bythe
 Construction, Inc.
 ROADWAY PLANS

MATCH TO SHEET 9B -CSRI- STA 72+00
 MATCH TO SHEET 9B
 MATCH TO SHEET 9D
 -C13- STA 20+00
 FOR PROFILE SEE SHEETS 31, 32A, 40
 PAVEMENT REMOVAL

PROJECT REFERENCE NO. 1-2511/CB	SHEET NO. 90
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

REVISIONS

MATCH TO TO SHEET 12 -CL- STA. 770+00



CRP2B - PI STA 10+91.7 Δ = 7'45" (UT) D = 0'57" (RT) L = 183.52' T = 9.77' R = 6000.00'	PI STA 13+28.7 Δ = 1'08" (UT) D = 2'40" (RT) L = 240.00' T = 143.25' R = 96.99'	PI STA 16+58.03 (UT) Δ = 16'40" (UT) D = 3'34" (RT) L = 465.70' T = 234.51' R = 1800.00'	PI STA 19+49.24 Δ = 5'13" (RT) D = 1'00" (RT) L = 180.00' T = 60.02' R = 60.02'	PI STA 21+89.31 Δ = 6'31" (RT) D = 1'00" (RT) L = 180.00' T = 60.02' R = 60.02'
---	--	---	--	--

CSRB - PI STA 25+07.84 Δ = 4'09" (RT) D = 5'00" (RT) L = 1638.58' T = 873.54' R = 1309.88'
--

CL - PI STA 70+76.23 Δ = 0'53" (RT) D = 27.00' L = 180.00' T = 90.00' R = 90.00'
--

CSRC - PI STA 28+44.94 Δ = 29'30" (UT) D = 5'00" (RT) L = 589.53' T = 301.48' R = 146.00'

CRP2C - PI STA 15+38.23 Δ = 5'00" (RT) D = 200.00' L = 133.39' T = 66.72' R = 66.72'
--

CRP2C - PI STA 17+56.71 Δ = 15'05" (RT) D = 5'00" (RT) L = 301.98' T = 151.87' R = 146.52'
--

CRP2C - PI STA 19+73.53 Δ = 5'00" (RT) D = 200.00' L = 133.39' T = 66.72' R = 66.72'
--

MATCH TO SHEET 13C
-CSRC- STA 24+00

THE LPA GROUP
 TRANSPORTATION CONSULTANTS
MA Engineering CONSULTANTS, INC.
 598 Elk Creek Road, Suite 137
 Cary, NC 27511

BE
Bythe
 Construction, Inc.

ROADWAY PLANS

FOR PROFILE SEE SHEETS 27, 44, 45, 49, 51

PAVEMENT REMOVAL

MATCH TO SHEET 13C
-CRP2C- STA 21+00

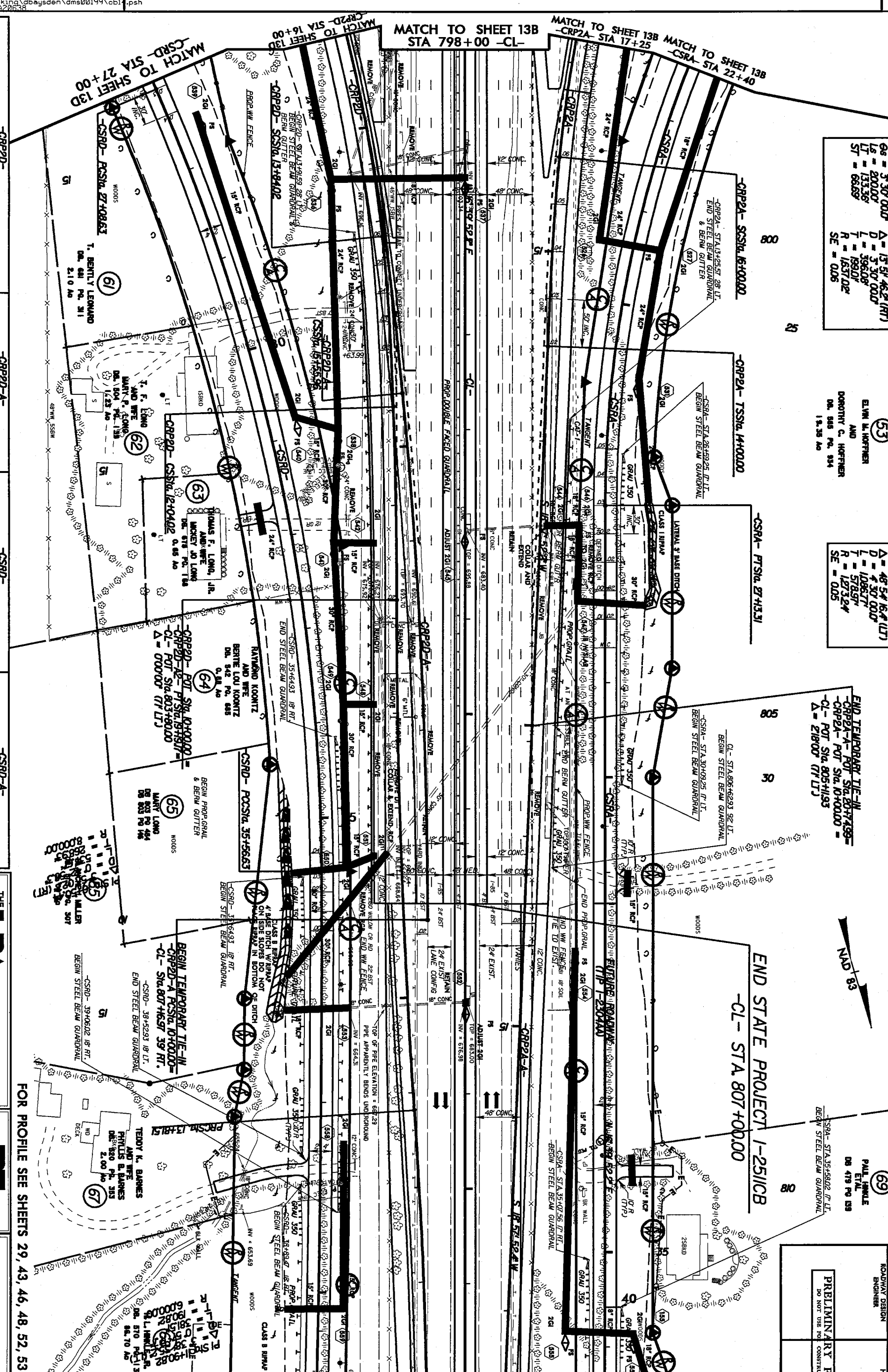
MATCH TO SHEET 13B -CL- STA 784+00

MATCH TO SHEET 13E
 -CSRB- STA 18+75
 MATCH TO SHEET 13E
 -CRP2B- STA 21+30

PROJECT REFERENCE NO.	1-2511/C8
SHEET NO.	13A
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	
PRELIMINARY PLANS	DO NOT USE FOR CONSTRUCTION

REVISIONS

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baysden AT 12/20/03



CRP2A-

Pi Sta 15+33.36	Δ = 15' 51" 46.2 (RT)
Qs = 3' 30" 00.0	D = 3' 30" 00.0
Ls = 133.36	L = 133.36
St = 66.69	R = 133.36
	SE = 0.06

(53)
ELWIN M. HORTNER
AND
DOROTHY C. HORTNER
DR. 688 PO. 534
LA. 38 MO

CSRA-

Pi Sta 22+05.51	Δ = 45' 54" 16.4 (LT)
D = 4' 30" 00.0	D = 4' 30" 00.0
L = 108.61	L = 108.61
T = 57.69	R = 108.61
SE = 0.05	SE = 0.05

END TEMPORARY TIE-IN
CRP2A - POT Sta. 807+499
CL - POT Sta. 805+193
Δ = 218.00 (RT)

(59)
PAUL HAMILLE
DR. 479 PO 898

PROJECT REFERENCE NO.	1-2511/CB
ROADWAY DESIGN ENGINEER	
ROADWAY PLANS ENGINEER	
PRELIMINARY PLANS	DO NOT USE FOR CONSTRUCTION
SHEET NO.	14

CRP2D-	Pi Sta 13+14.43	Δ = 18' 05" 22.3 (LT)
	Qs = 3' 13" 23.6	D = 3' 13" 23.6
	Ls = 180.00	L = 180.00
	St = 72.67	R = 180.00
	SE = 0.02	SE = 0.02
CRP2D-	Pi Sta 16+38.72	Δ = 18' 05" 22.3 (LT)
	Qs = 3' 13" 23.6	D = 3' 13" 23.6
	Ls = 180.00	L = 180.00
	St = 72.67	R = 180.00
	SE = 0.02	SE = 0.02
CRP2D-A-	Pi Sta 12+78.8	Δ = 0' 57" 17.7
	Qs = 7' 09" 56.2	D = 0' 57" 17.7
	Ls = 400.00	L = 400.00
	T = 239.00	R = 400.00
	SE = 0.04	SE = 0.04
CRP2D-	Pi Sta 4+18.58	Δ = 2' 45" 00.0
	Qs = 2' 45" 00.0	D = 2' 45" 00.0
	Ls = 846.00	L = 846.00
	T = 423.00	R = 846.00
	SE = 0.04	SE = 0.04
CRP2D-A-	Pi Sta 4+18.00	Δ = 0' 15" 05.9
	Qs = 2' 27" 68.0	D = 0' 15" 05.9
	Ls = 563.37	L = 563.37
	T = 227.68	R = 563.37
	SE = 0.06	SE = 0.06
CRP2D-A-	Pi Sta 12+29.95	Δ = 11' 14" 04.1
	Qs = 11' 14" 04.1	D = 11' 14" 04.1
	Ls = 157.57	L = 157.57
	T = 79.57	R = 157.57
	SE = 0.06	SE = 0.06
CRP2D-A-	Pi Sta 13+87.92	Δ = 11' 14" 04.1
	Qs = 11' 14" 04.1	D = 11' 14" 04.1
	Ls = 157.57	L = 157.57
	T = 79.57	R = 157.57
	SE = 0.06	SE = 0.06

THE LPA GROUP OF NORTH CAROLINA, P.A.
TRANSPORTATION CONSULTANTS
MA Engineering
CONSULTANTS, INC.
588 East Cameron Street
Suite 137
CMT, NC 27511

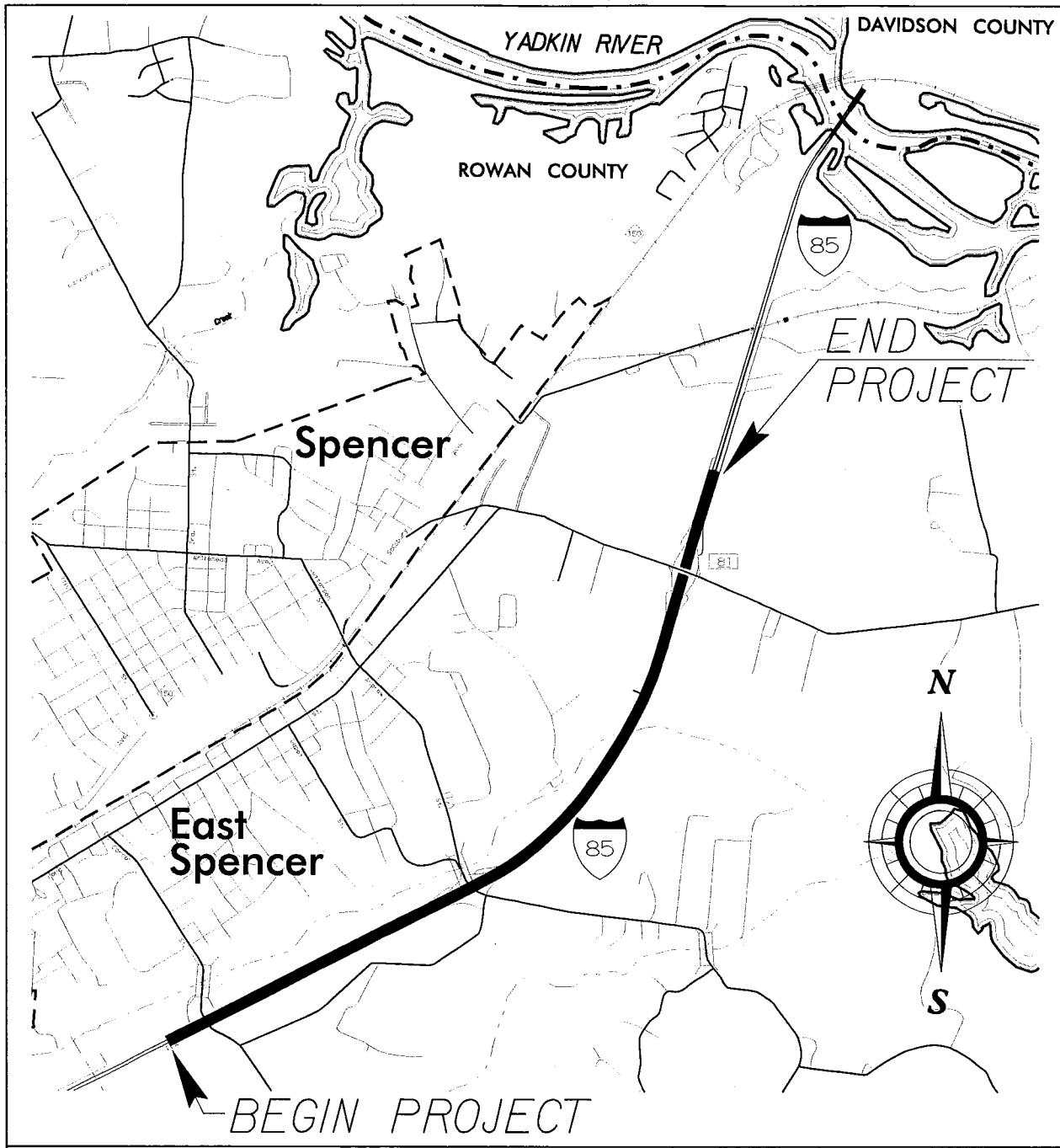
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Construction, Inc.

ROADWAY PLANS

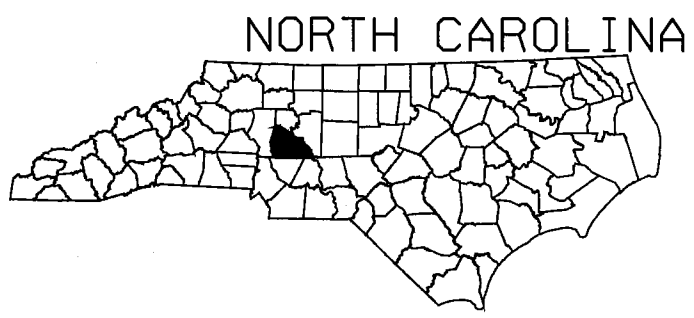
FOR PROFILE SEE SHEETS 29, 43, 46, 48, 52, 53

MATCH TO SHEET 15 STA. 812+00 -CL-

END STATE PROJECT 1-2511/CB
-CL- STA 807+00.00

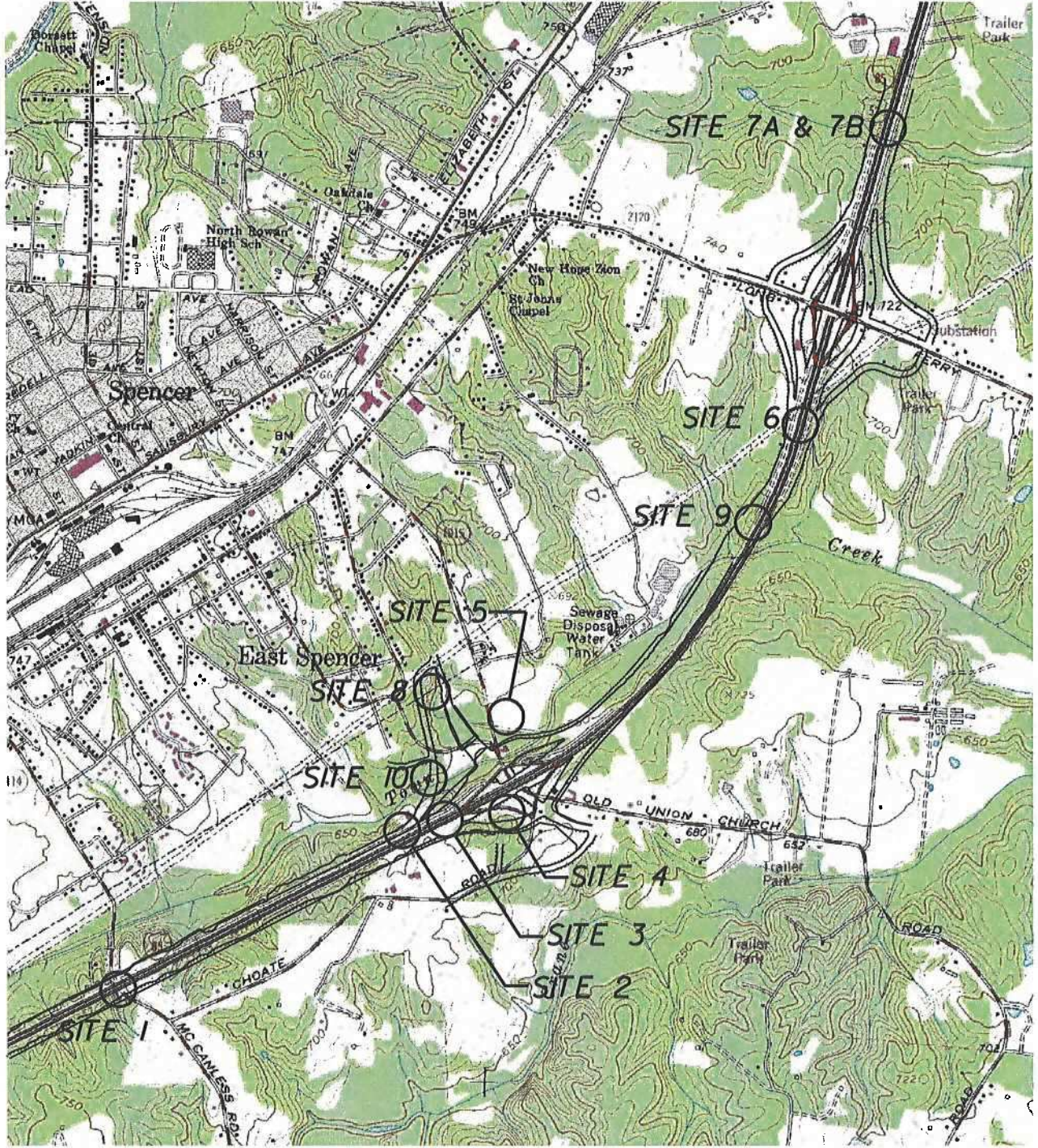


VICINITY MAP



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 1 OF 35
 DATE 8/10/05

SITE MAP



SALISBURY, NC QUAD MAP



NORTH CAROLINA

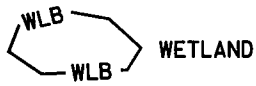
NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 2 OF 35
DATE 8/10/05

WETLAND LEGEND

— WLB — WETLAND BOUNDARY



→ → FLOW DIRECTION

TB — TOP OF BANK

WE — EDGE OF WATER

C — PROP. LIMIT OF CUT

F — PROP. LIMIT OF FILL

▲ — PROP. RIGHT OF WAY

— NG — NATURAL GROUND

PL — PROPERTY LINE

TDE — TEMP. DRAINAGE EASEMENT

PDE — PERMANENT DRAINAGE EASEMENT

EAB — EXIST. ENDANGERED ANIMAL BOUNDARY

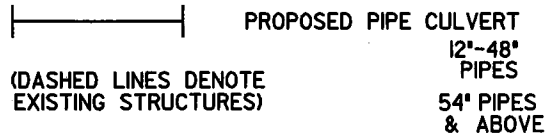
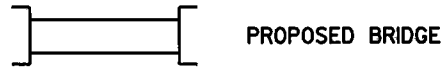
EPB — EXIST. ENDANGERED PLANT BOUNDARY

— — WATER SURFACE

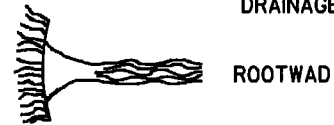
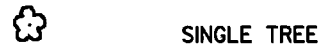
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x x x x x
LIVE STAKES

BOULDER

— — CORE OF FIBER ROLLS



(DASHED LINES DENOTE EXISTING STRUCTURES)



NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

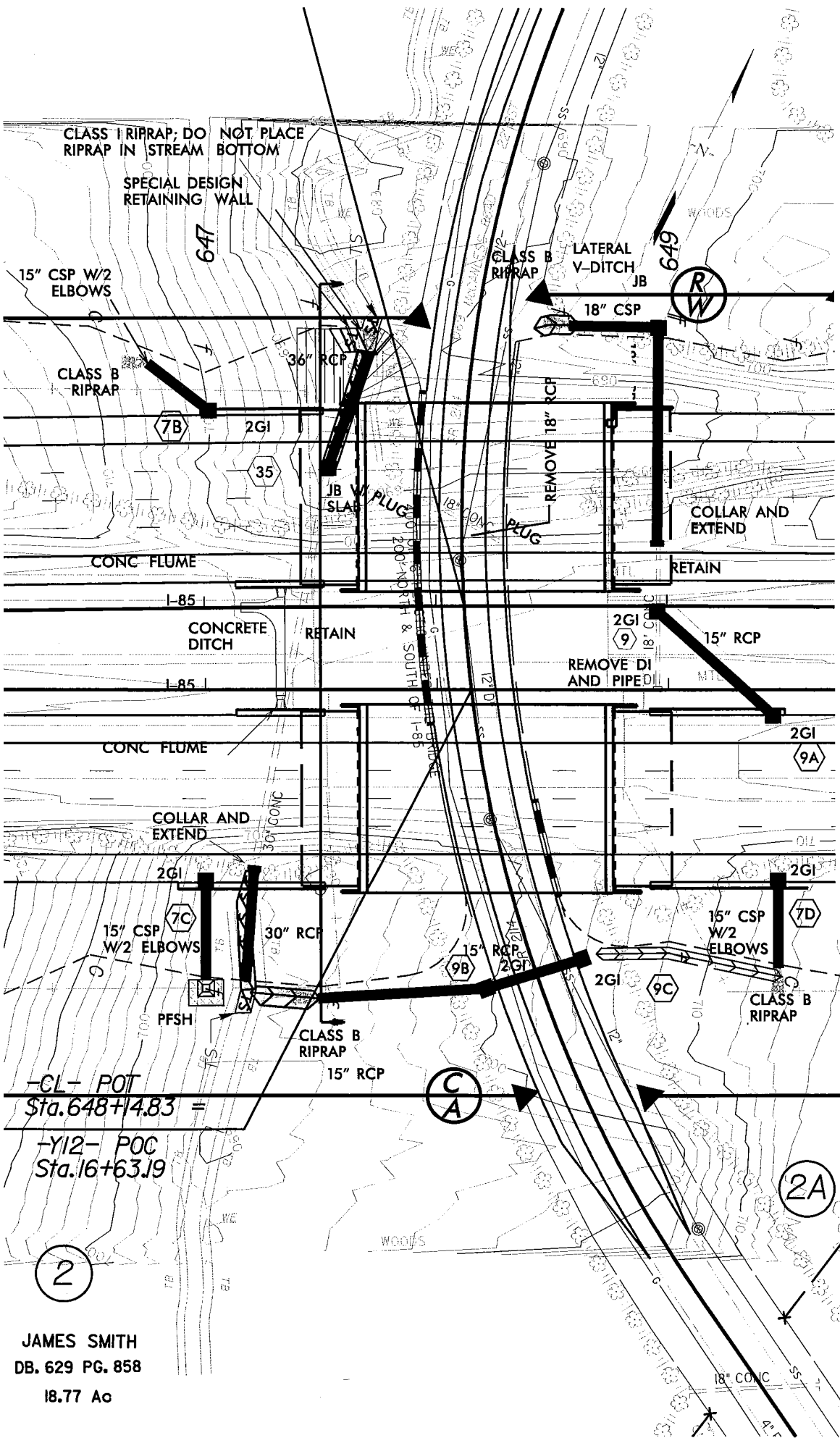
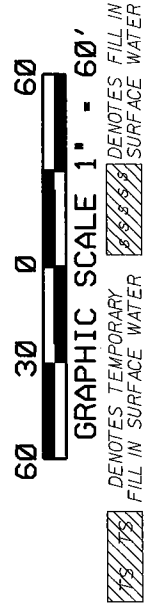
PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 3 OF 35
DATE 8/10/05

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-25)(ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 4 OF 35
REVISED 8/10/05

**SITE 1
PLAN VIEW**



JAMES SMITH
DB. 629 PG. 858
18.77 Ac

100 50 0 50 100 150

EL 760
EL 740
EL 720
EL 700
EL 680

EL 760
EL 740
EL 720
EL 700
EL 680

647+50.00

647+50.79

713.07

707.93

D.P. 705.390

0

S.S. 691.686

S.S. 683.337

SITE 1 CROSS SECTION VIEW



GRAPHIC SCALE 1" = 50'

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER

SHEET 5 OF 34

DATE 2/15/05

40

680

SITE 2 PLAN VIEW



DENOTES TEMPORARY FILL IN SURFACE WATER
 DENOTES FILL IN SURFACE WATER

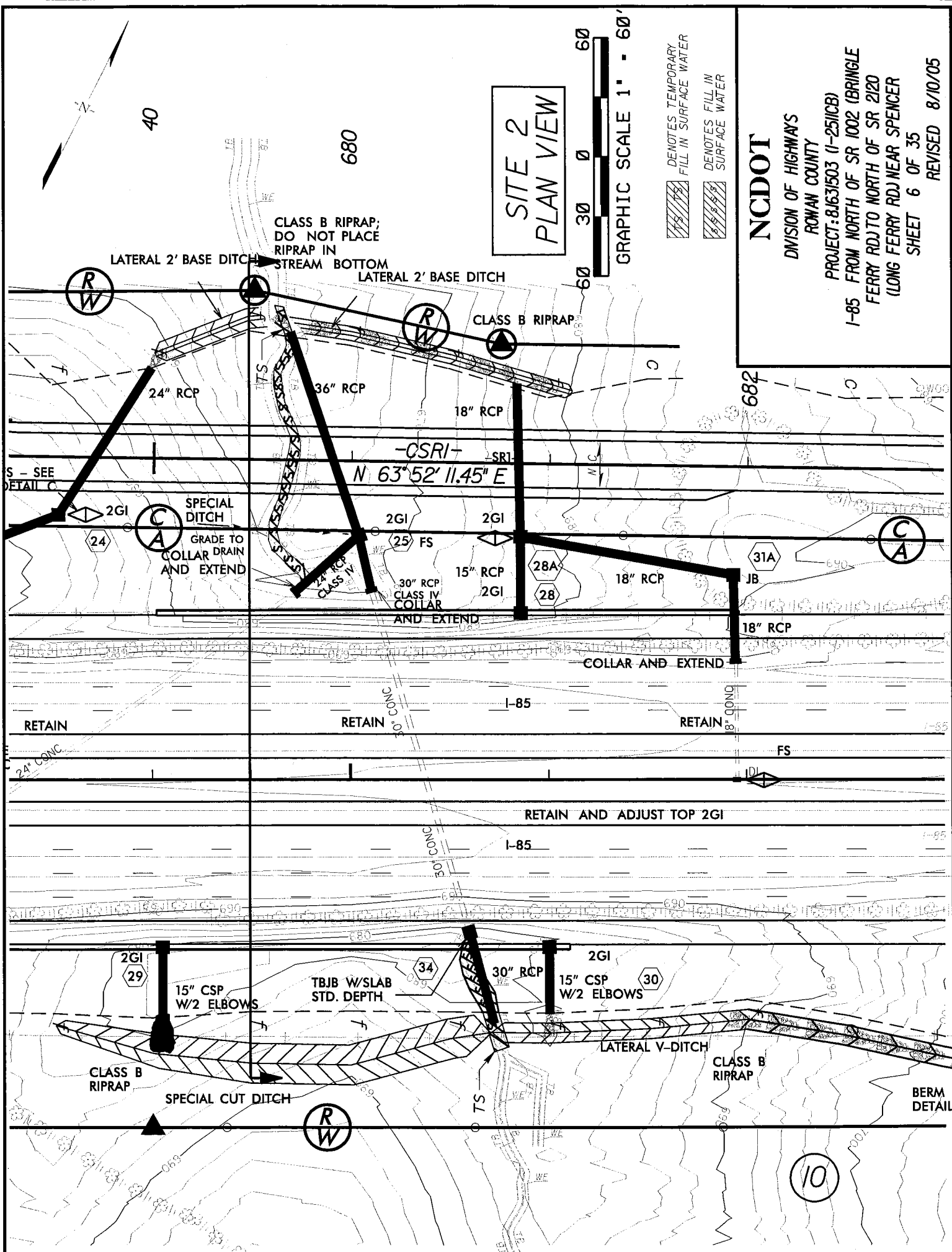
NCDOT

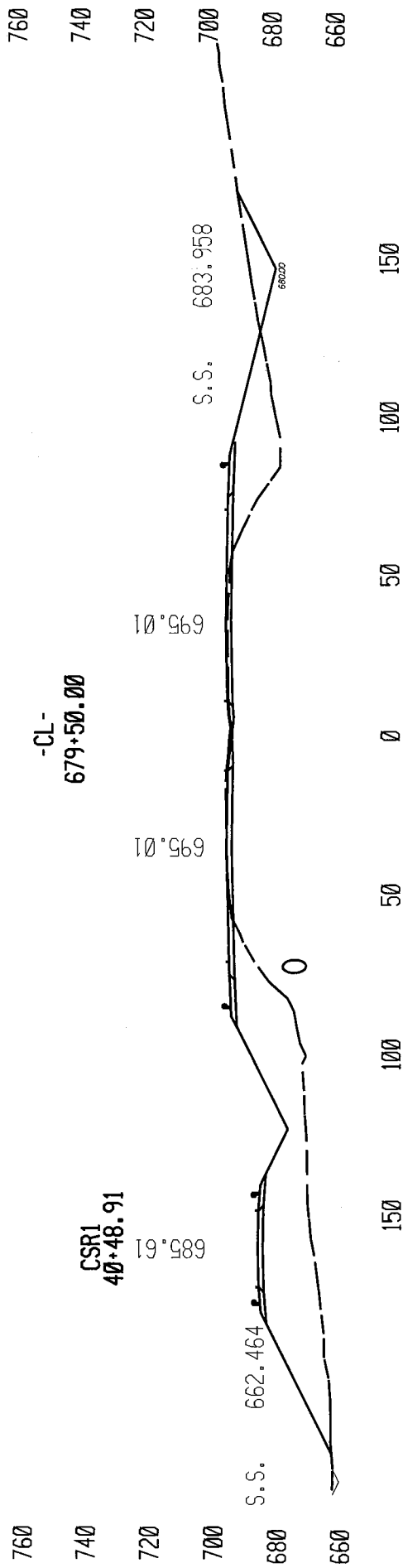
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)

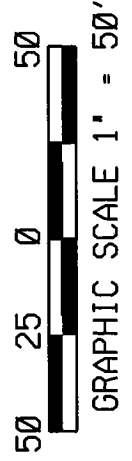
I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD.) TO NORTH OF SR 2120 (LONG FERRY RD.) NEAR SPENCER

SHEET 6 OF 35
REVISED 8/10/05





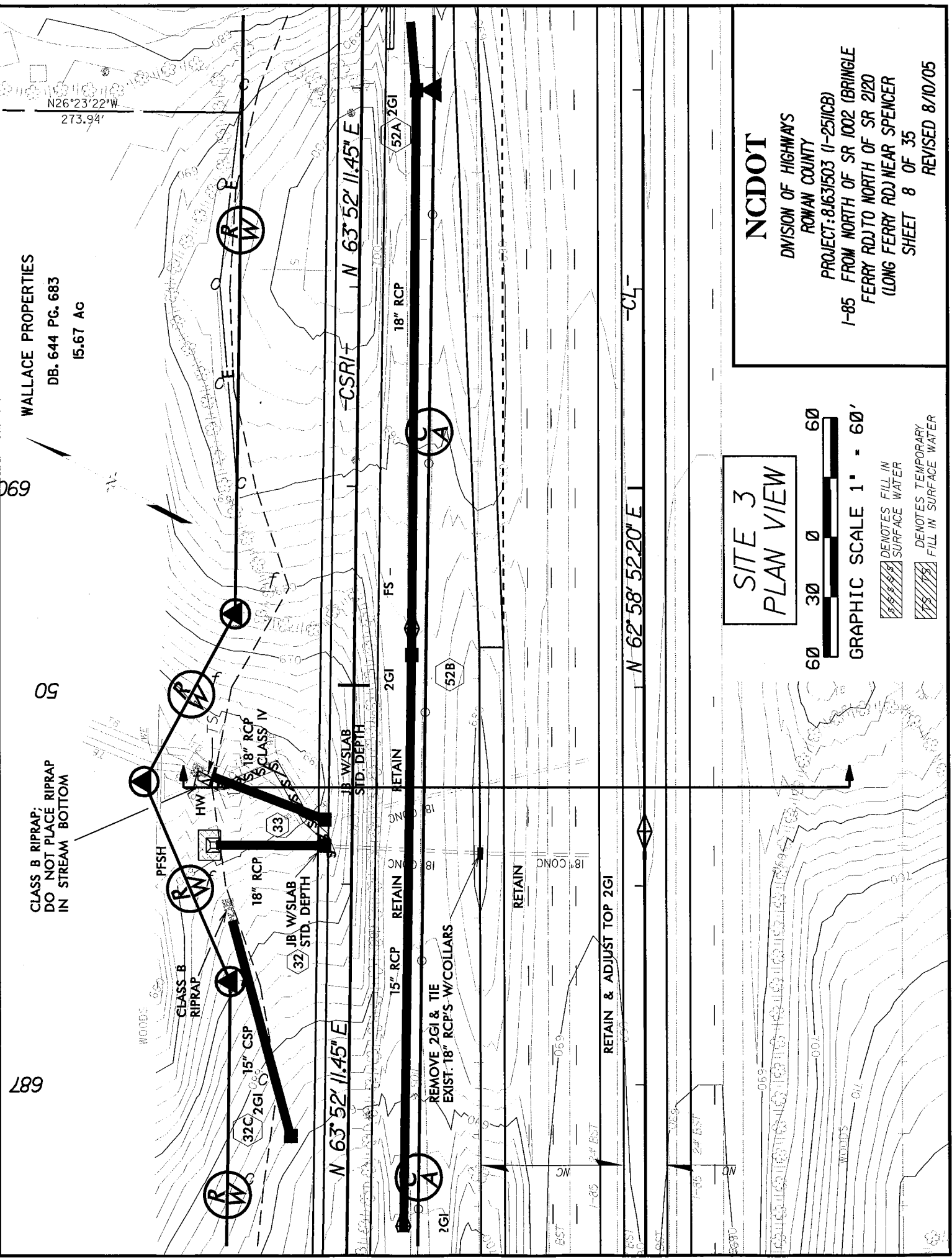
SITE 2 CROSS SECTION VIEW



NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-2511CB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 7 OF 35 DATE 8/10/05



WALLACE PROPERTIES
 DB. 644 PG. 683
 15.67 AC

CLASS B RIPRAP;
 DO NOT PLACE RIPRAP
 IN STREAM BOTTOM

SITE 3
 PLAN VIEW

GRAPHIC SCALE 1" = 60'
 60 30 0 60

DENOTES FILL IN SURFACE WATER
 DENOTES TEMPORARY FILL IN SURFACE WATER

NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 8 OF 35
 REVISED 8/10/05

N26°23'22"W
 273.94'

N 63°52'11.45" E
 -CSRI-
 N 63°52'11.45" E

N 62°58'52.20" E

REMOVE 2GI & TIE
 EXIST. 18" RCP'S W/COLLARS

RETAIN & ADJUST TOP 2GI

18" RCP

2GI

15" RCP

RETAIN

2GI

2GI

18" CONC

RETAIN

18" CONC

RETAIN

2GI

FS

18" RCP

52A 2GI

52B

52C

52D

52E

52F

52G

52H

52I

52J

52K

52L

52M

52N

52O

52P

52Q

52R

52S

52T

52U

52V

52W

52X

52Y

52Z

52AA

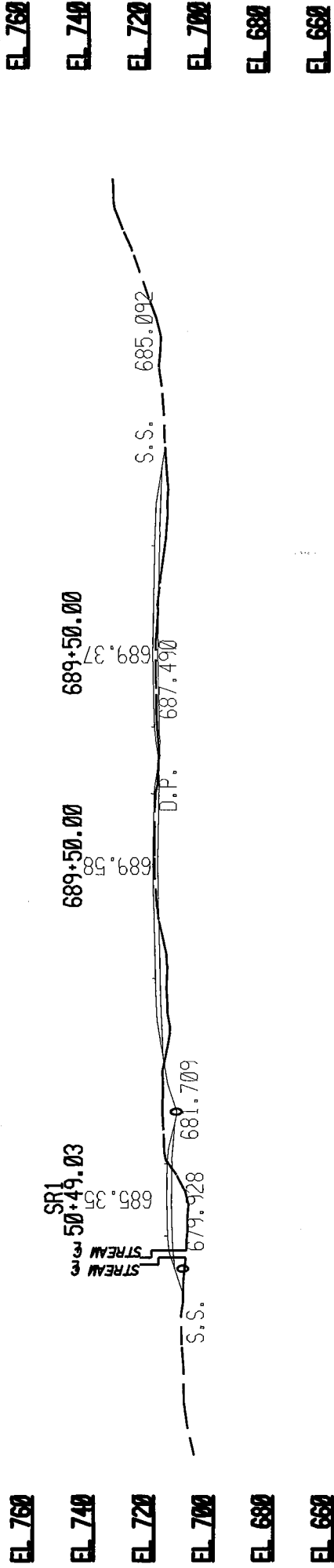
52AB

52AC

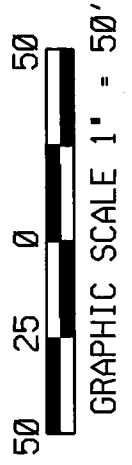
52AD

52AE

100 50 0 50 100 150



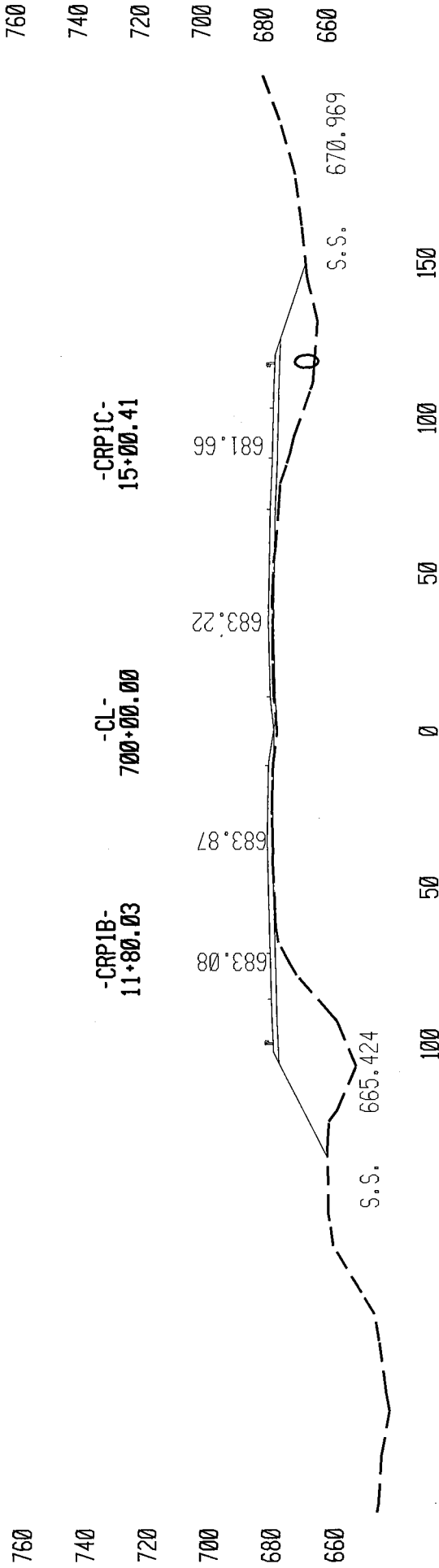
SITE 3 CROSS SECTION VIEW



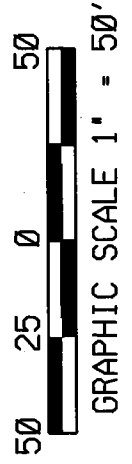
NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 9 OF 34 DATE 2/15/05



SITE 4 CROSS SECTION VIEW



NCDOT

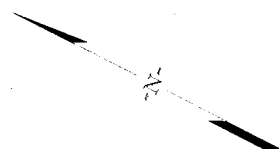
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (I-25/ICB)

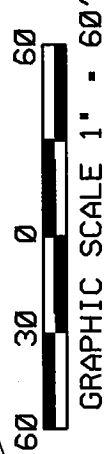
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER

SHEET 11 OF 35

DATE 8/10/05

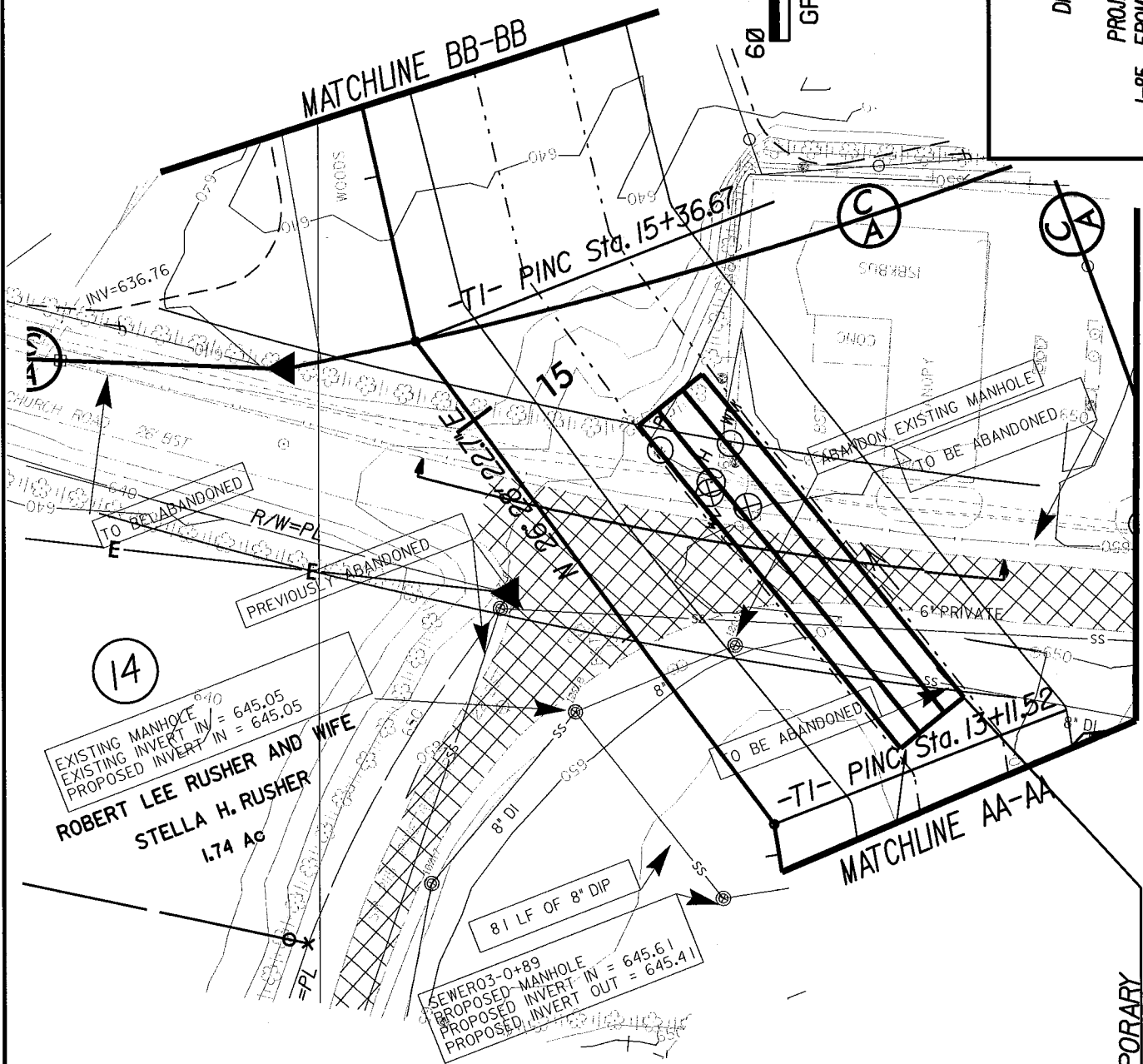


**SITE 5
PLAN VIEW**



-  DENOTES EXISTING ROADWAY TO BE ABANDONED
-  DENOTES TEMPORARY FILL IN SURFACE WATER

NC DOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (1-251C8)
 I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
 SHEET 12 OF 35
 REVISED 8/10/05



14

EXISTING MANHOLE
 EXISTING INVERT IN = 645.05
 PROPOSED INVERT IN = 645.05
ROBERT LEE RUSHER AND WIFE
STELLA H. RUSHER
 1.74 Ac

SEWER03-0+89
 PROPOSED MANHOLE
 PROPOSED INVERT IN = 645.61
 PROPOSED INVERT OUT = 645.41

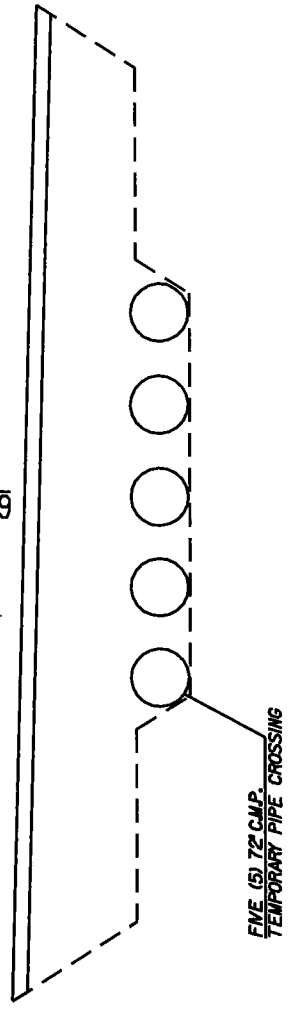
TEMPORARY
 2 - 8'X6' RCBC
 W/14' PRECAST
 CONCRETE SLAB
 "CENTER SPAN"

100 50 0 50 100

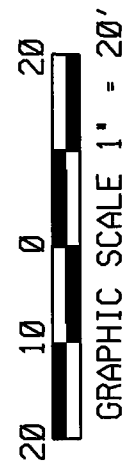
89 059

EL 660

EL 660



SITE 5 CROSS SECTION VIEW



NCDOT

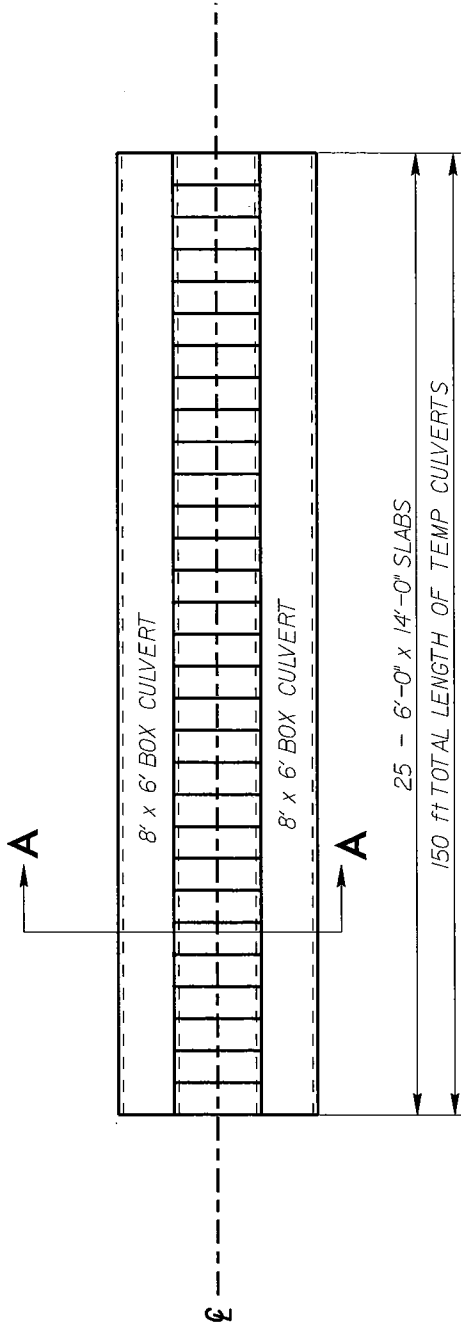
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8.1631503 (1-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

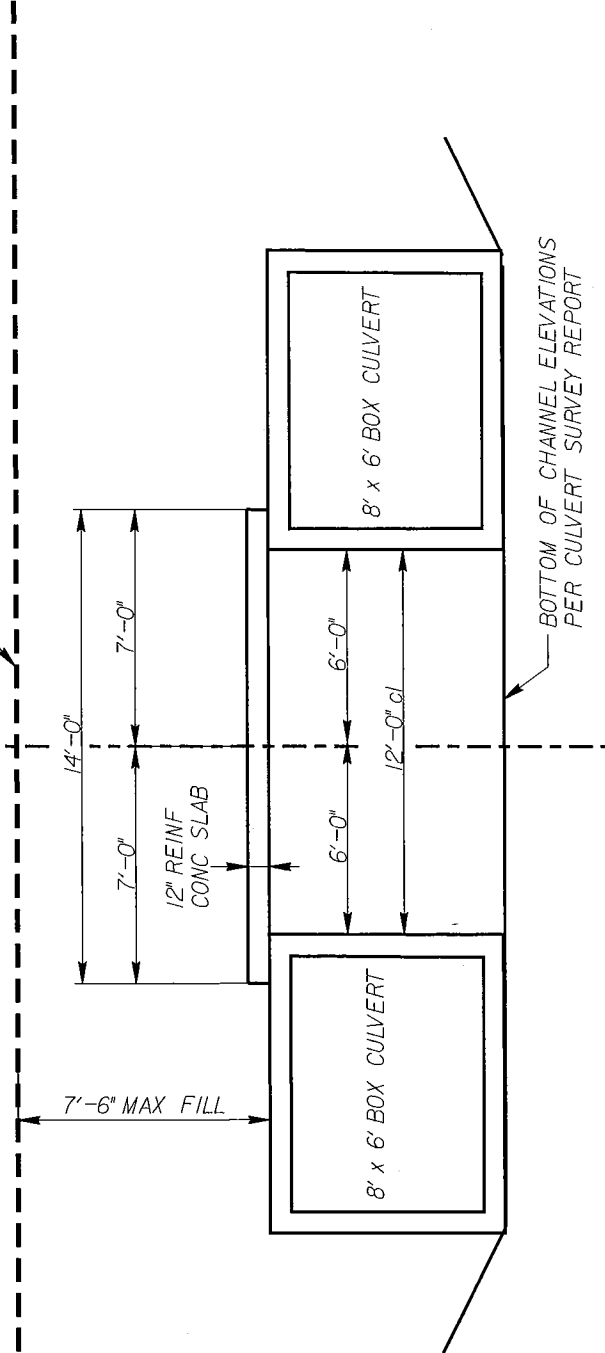
SHEET 13 OF 34

DATE 2/15/05



☉ TEMP CULVERT UNITS

---Y13- EXISTING GRADE



SECTION A-A

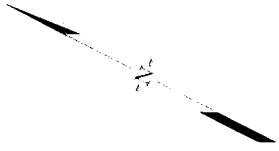
SITE 5
DETAILS

NTS

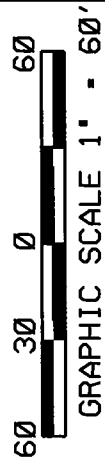
NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 14 OF 35
REVISED 8/10/05



**SITE 5A
PLAN VIEW**



-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER
-  DENOTES EXISTING ROADWAY TO BE ABANDONED

NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-251CB)
I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD) TO NORTH OF SR 2120 (LONG FERRY RD) NEAR SPENCER
SHEET 15 OF 35
REVISED 8/10/05

MATCHLINE 23+00 -CRPIB-

MATCHLINE AA-AA

MATCHLINE AA-AA

OLIN E. STAMPER AND WIFE
ANNIE STAMPER

16

CL. B. RIPRAP EST. 13 TONS EST. 37 S.Y.F.F.

N 41° 40' 58.06" E 1

T S Sta. 708+46.43

2' 8" X 6' RIBC WITH 12" STEEL DECK "CENTER SPAN" TEMPORARY 18" STEEL CASING

EXISTING RIVER CHANNEL TO BE FILLED TO PROPOSED INVERT IN = 646' 3.86' DITCH

PROPOSED 180 LF STEEL CASING T=0.25' d=18"

PROPOSED 200 LF STEEL CASING T=0.25' d=18"

EXTRA DEPTH JB D = 8.5'

TOE PROTECTION

417

418

414

710

PLUG

PLUG

CRPIB- ST Sta. 19+31.90

CRPIB-

REMOVE

REMOVE

REMOVE

PREVIOUSLY ABANDONED

TO BE ABANDONED

WOODS

PRIVATE

TOE PROTECTION

EXTRA DEPTH JB D = 8.5'

PROPOSED 200 LF STEEL CASING T=0.25' d=18"

PLUG

417

418

414

710

PLUG

CRPIB- ST Sta. 19+31.90

CRPIB-

REMOVE

REMOVE

REMOVE

PREVIOUSLY ABANDONED

TO BE ABANDONED

WOODS

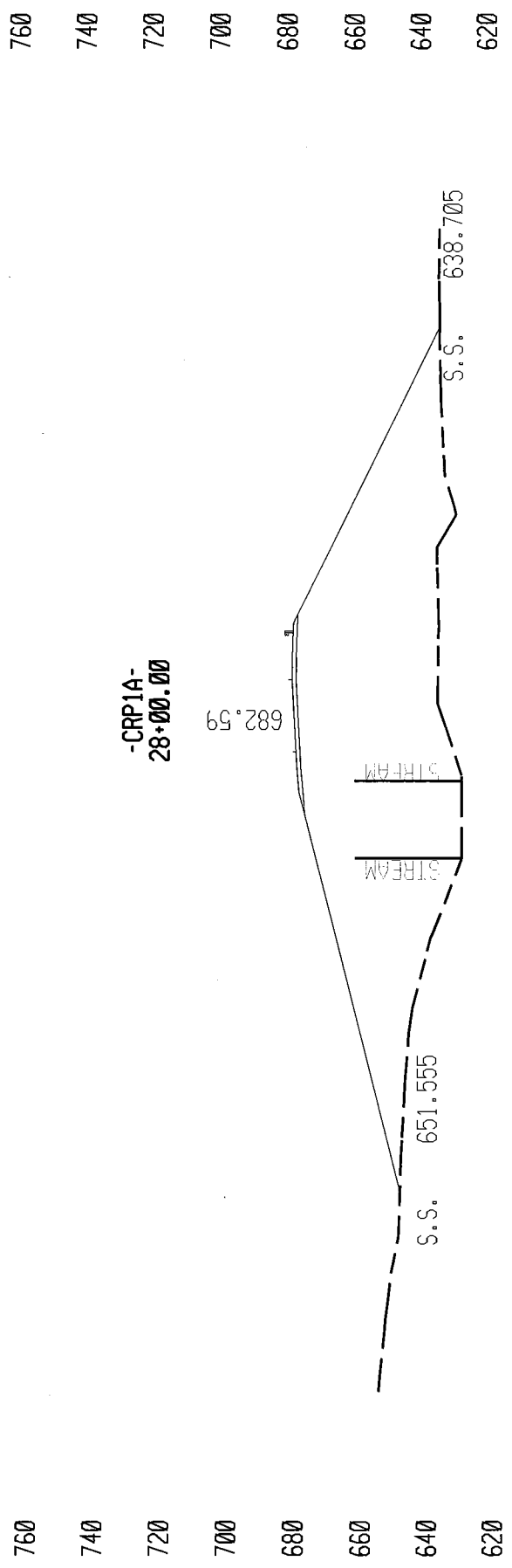
PRIVATE

TOE PROTECTION

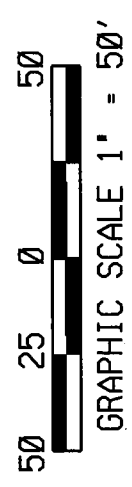
EXTRA DEPTH JB D = 8.5'

PROPOSED 200 LF STEEL CASING T=0.25' d=18"

PLUG

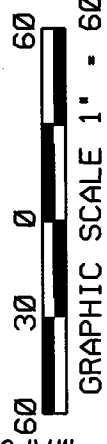


SITE 5B CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 17 OF 35
 DATE 8/10/05

**SITE 5C
PLAN VIEW**




 DENOTES TEMPORARY
 FILL IN SURFACE WATER

NCDOT

DIVISION OF HIGHWAYS
 ROMAN COUNTY

PROJECT: 81631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER

SHEET 18 OF 35

REVISED 8/10/05

MATCHLINE CC-CC

(27)
 R. L. RUSHER AND WIFE
 STELLA MAE RUSHER
 DB 428 PG 213
 79.65 Ac

-TI- PINC Sta. 20+35.34

N 78° 03' 35.6" E

20

RELOCATED TOWN CREEK

-TI- PINC Sta. 17+86.67

N 50° 26' 54.3" E

15" CSP
 15" 2 W/2 ELBOWS
 PERFORMED SCOUR HOLE

15" CSP

101

15" 2 W/2 ELBOWS

PT Stg. 24+55.43

15" CSP

15" 2 W/2 ELBOWS

15" CSP

15" 2 W/2 ELBOWS

15" CSP

15" 2 W/2 ELBOWS

15" CSP

15" 2 W/2 ELBOWS

MATCHLINE BB-BB

PROPOSED 114 LF
 STEEL CASING
 t=0.250" d=16"

WATER 1-15+59
 PROPOSED 45 DEG
 BENDS WITH BLOCKING

WATER 1-15+41
 PROPOSED 45 DEG
 BENDS WITH BLOCKING

(CA)

(CA)

NCDOT

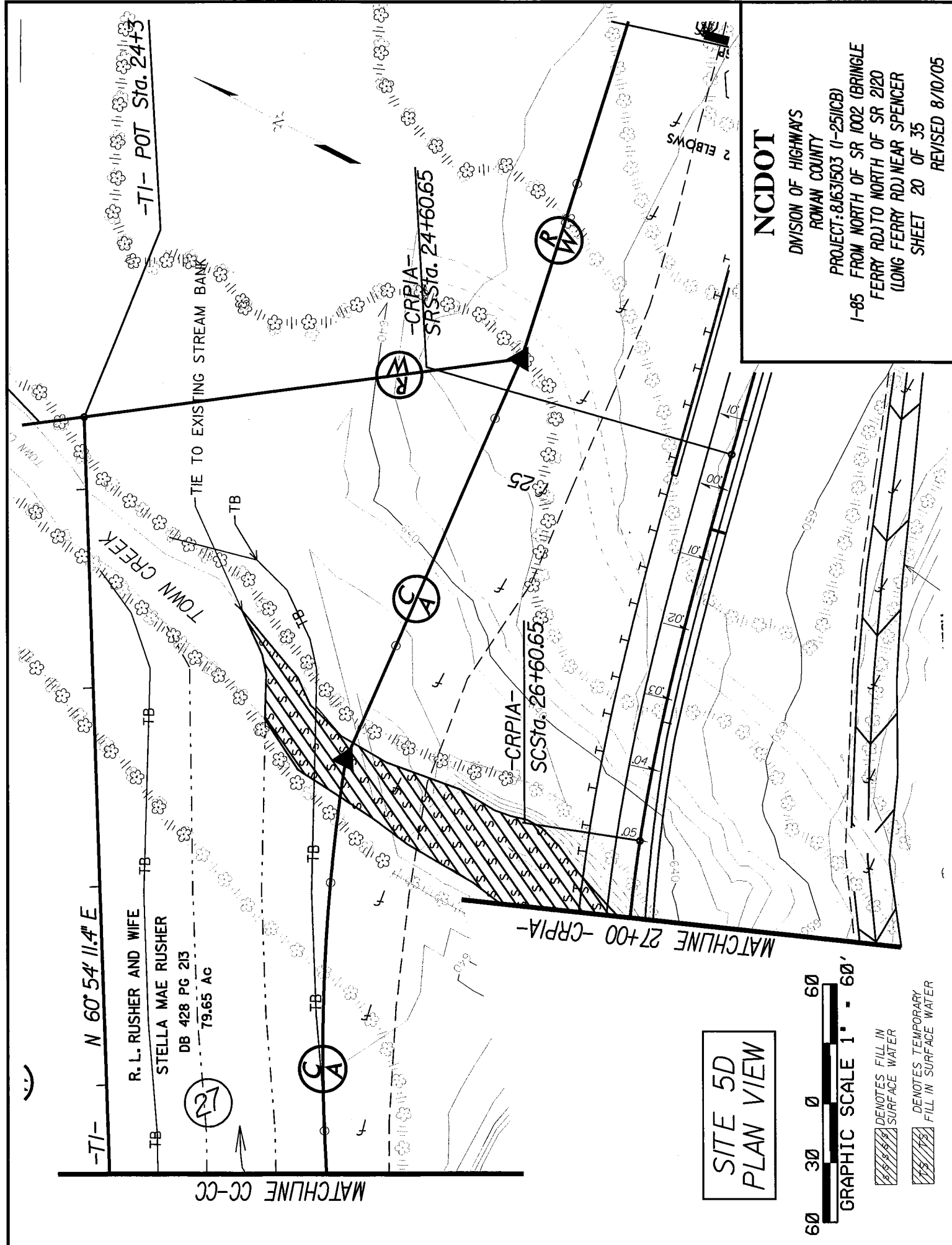
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)

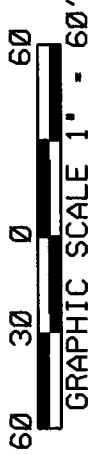
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 20 OF 35

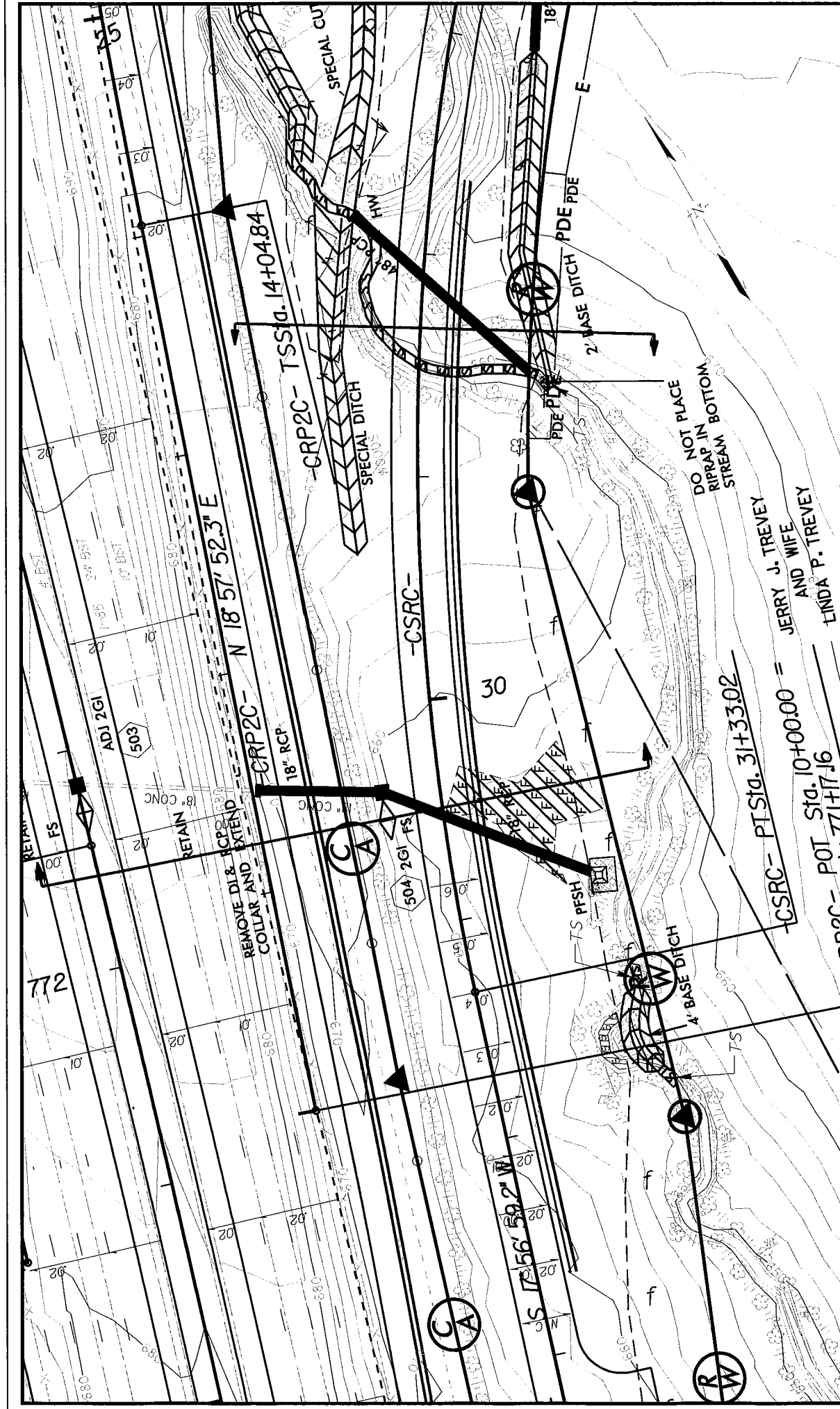
REVISED 8/10/05



**SITE 5D
PLAN VIEW**



- DENOTES TEMPORARY FILL IN SURFACE WATER
- DENOTES TEMPORARY FILL IN SURFACE WATER



NCDOT

DIVISION OF HIGHWAYS
 ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 21 OF 35 DATE 8/10/05

DO NOT PLACE
 RIPRAP IN BOTTOM
 STREAM

JERRY J. TREVEY
 AND WIFE
 LINDA P. TREVEY

JAMES E. EPTING
 AND WIFE
 HAZEL F. EPTING
 DB. 524 PG. 601
 DB. 750 PG. 601
 104.90 AC

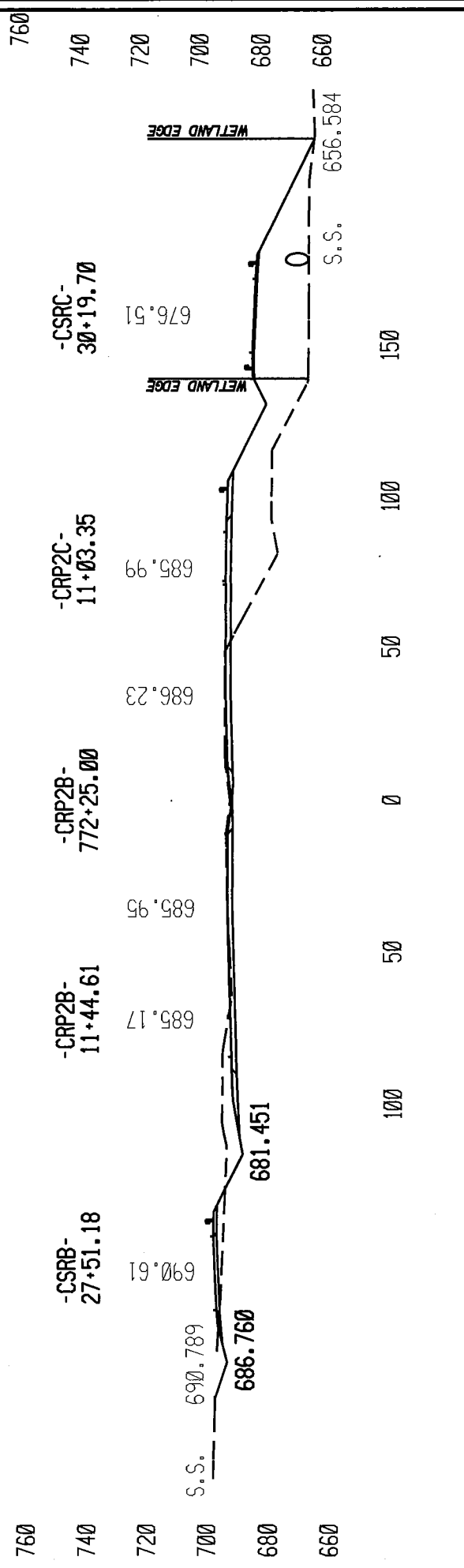
SITE 6 PLAN VIEW

40

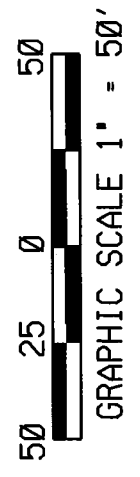
CSRC - PT Sta. 31+33.02
 CRP2C - POT Sta. 10+00.00
 CL - POS Sta. 71+17.16
 Δ = 218'00" (71' RT.)



- DENOTES FILL IN SURFACE WATER
- DENOTES TEMPORARY FILL IN SURFACE WATER
- DENOTES FILL IN WETLAND



SITE 6 CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 81631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 22 OF 35
 DATE 8/10/05

760
740
720
700
680
660

-CSRC-
28+50.00

677.48

669.800

S.S.

659.217

S.S.

100 50 0 50 100 150

SITE 6 CROSS SECTION VIEW



GRAPHIC SCALE 1" = 50'

NCDOT

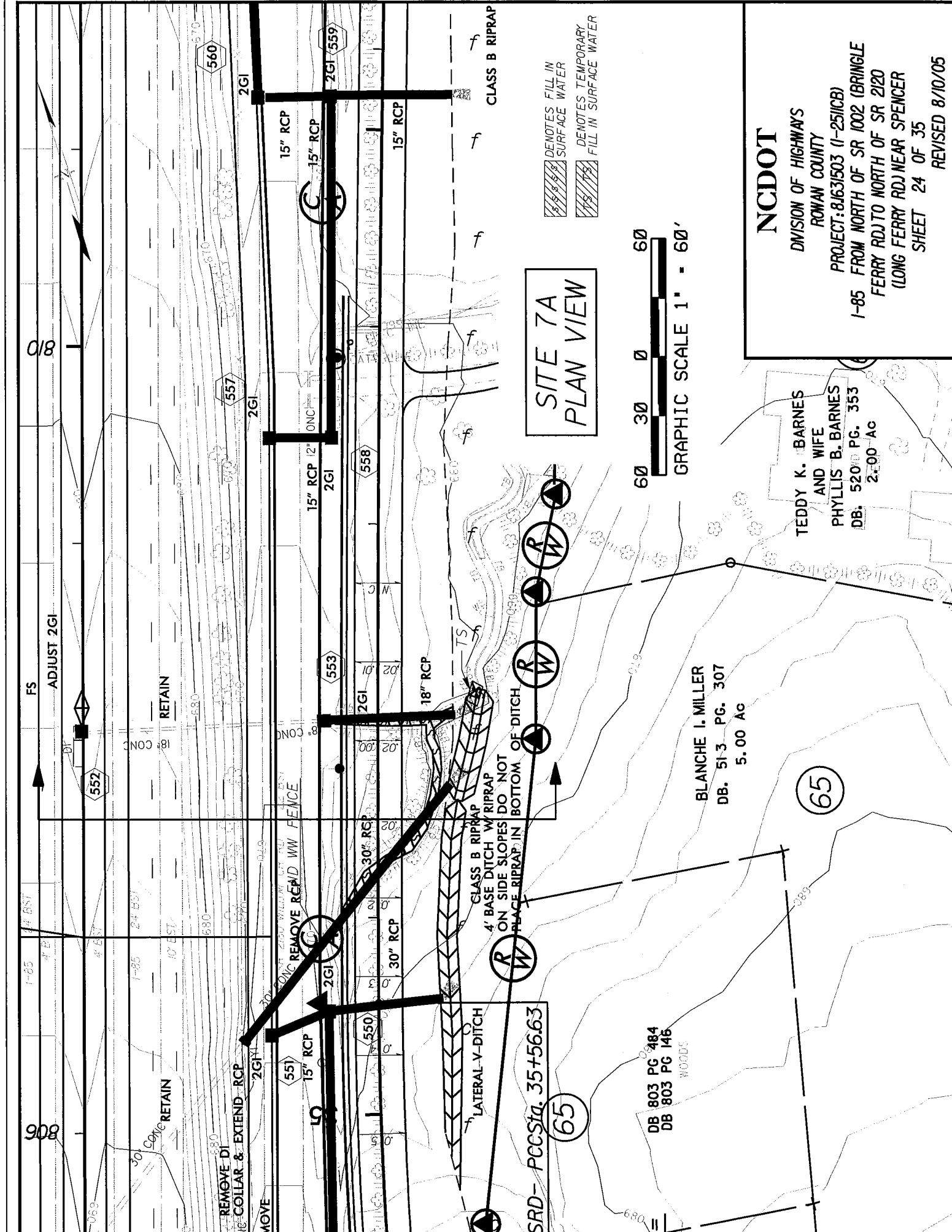
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)

I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER

SHEET 23 OF 35

DATE 8/10/05



**SITE 7A
PLAN VIEW**



NCDOT

DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER
SHEET 24 OF 35
REVISED 8/10/05

TEDDY K. BARNES
AND WIFE
PHYLLIS B. BARNES
DB. 520 PG. 353
2.00 AC

BLANCHE I. MILLER
DB. 51-3 PG. 307
5.00 AC

DB 803 PG 484
DB 803 PG 146
WOODS

SRD - PCCS/14.35+56.63

LATERAL V-DITCH

CLASS B RIPRAP
4' BASE DITCH W/ RIPRAP
ON SIDE SLOPES DO NOT
PLACE RIPRAP IN BOTTOM
OF DITCH

REMOVE RECID WW FENCE

REMOVE DI...
ING COLLAR & EXTEND RCP

RETAIN

RETAIN

ADJUST 2GI

FS

0/8

808

560

2GI

15" RCP

15" RCP

15" RCP

2GI 559

2GI

15" RCP 12" ONC

2GI

558

18" RCP

2GI

553

2GI

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

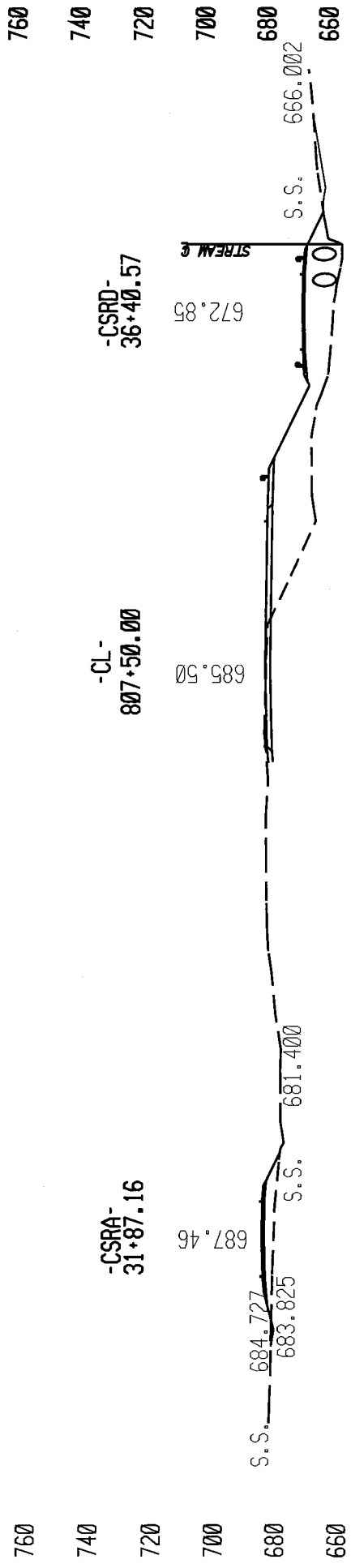
30" RCP

30" RCP

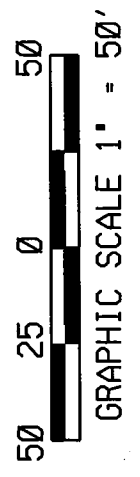
30" RCP

30" RCP

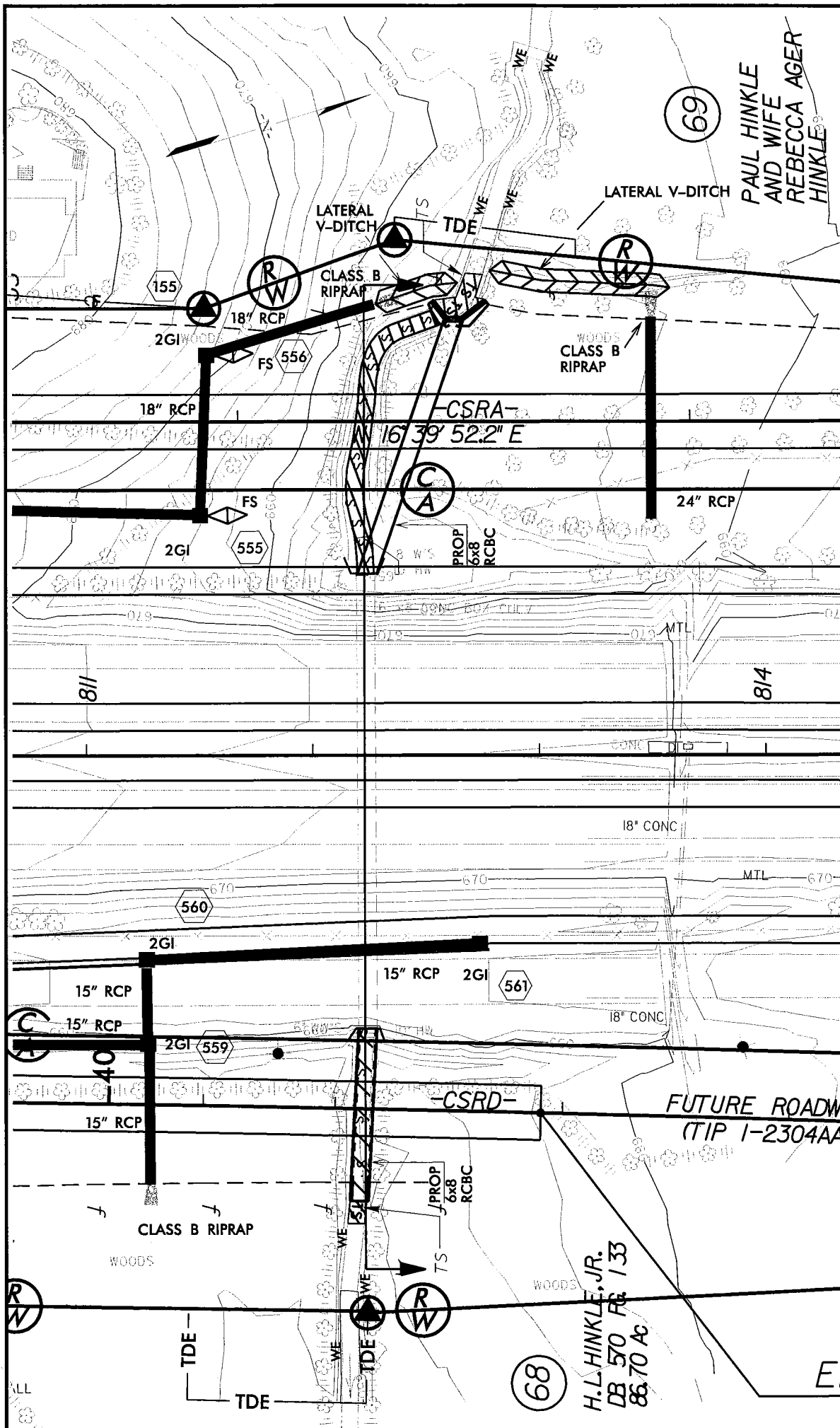
30" RCP



SITE 7A CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER
 SHEET 25 OF 35
 DATE 8/10/05



NCDOT

DIVISION OF HIGHWAYS
 ROWAN COUNTY

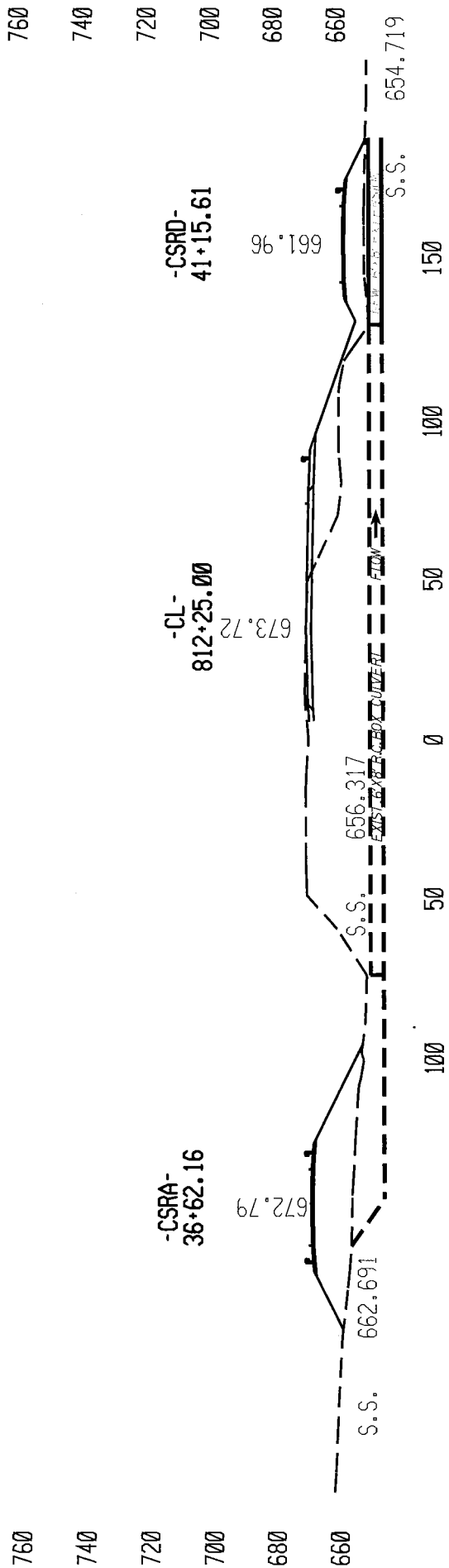
PROJECT: 81631503 (1-251CB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD) TO NORTH OF SR 2120
 (LONG FERRY RD) NEAR SPENCER

SHEET 26 OF 35
 REVISED 8/10/05

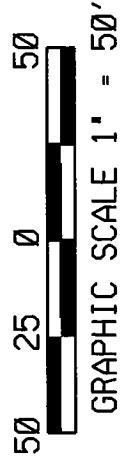
**SITE 7B
 PLAN VIEW**



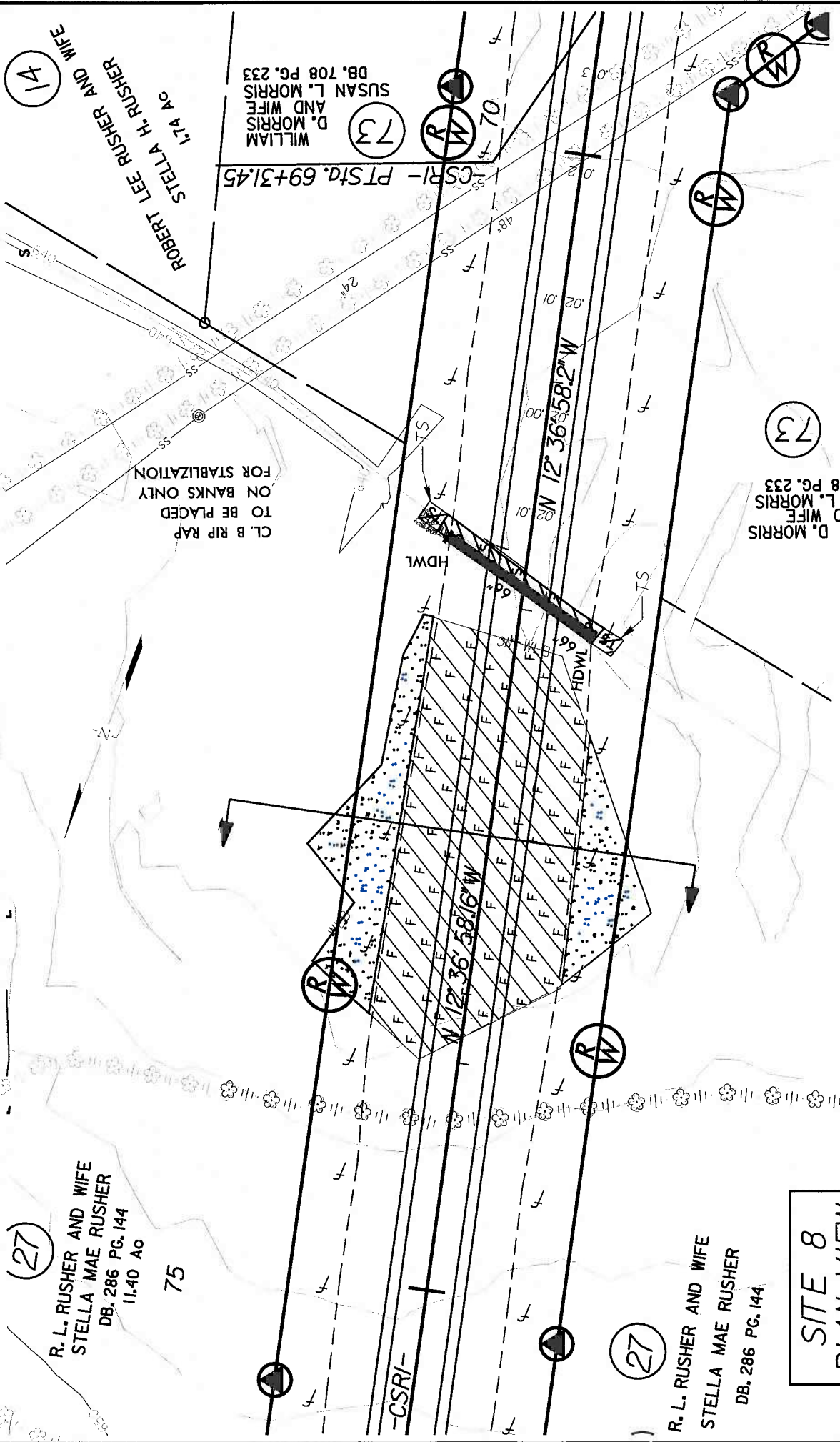
 DENOTES FILL IN SURFACE WATER
 DENOTES TEMPORARY FILL IN SURFACE WATER



SITE 7B CROSS SECTION VIEW



NCDOT
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 8J631503 (I-25/ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 27 OF 35
 DATE 8/10/05



(27)

R. L. RUSHER AND WIFE
STELLA MAE RUSHER
DB. 286 PG. 144
11.40 AC

75

WILLIAM D. MORRIS AND WIFE
SUSAN L. MORRIS
DB. 708 PG. 233

(73)

CL. B RIP RAP TO BE PLACED ON BANKS ONLY FOR STABILIZATION

WILLIAM D. MORRIS AND WIFE
SUSAN L. MORRIS
DB. 708 PG. 233

(73)

(27)

R. L. RUSHER AND WIFE
STELLA MAE RUSHER
DB. 286 PG. 144

SITE 8
PLAN VIEW



- DENOTES FILL IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES TEMPORARY FILL IN SURFACE WATER
- DENOTES MECHANIZED CLEARING

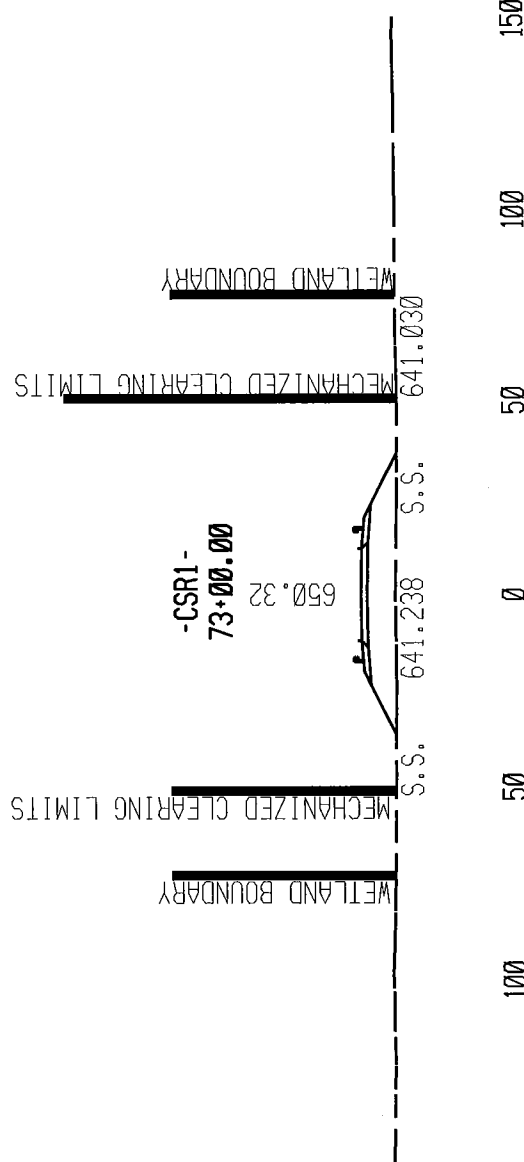
NCDOT

DIVISION OF HIGHWAYS
ROMAN COUNTY

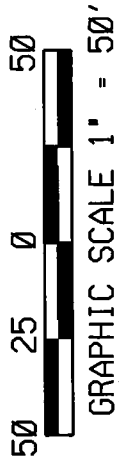
PROJECT: 8J631503 (I-251ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE FERRY RD.) TO NORTH OF SR 2120 (LONG FERRY RD.) NEAR SPENCER
SHEET 28 OF 35
REVISED 8/10/05

760
740
720
700
680
660
640

760
740
720
700
680
660
640



SITE 8 CROSS SECTION VIEW



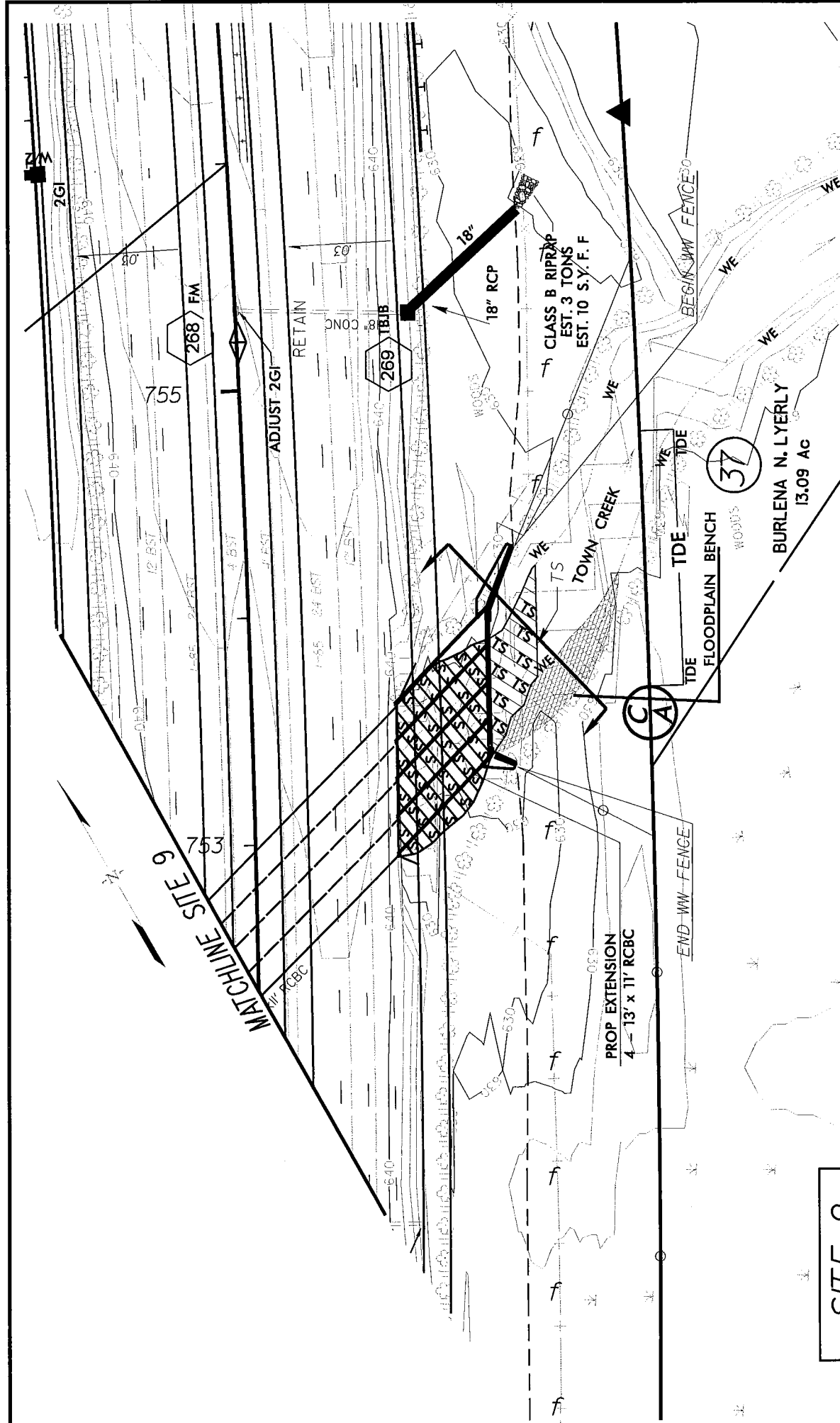
NCDOT
DIVISION OF HIGHWAYS
ROWAN COUNTY
PROJECT: 81631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 29 OF 35
DATE 8/10/05

NCDOT

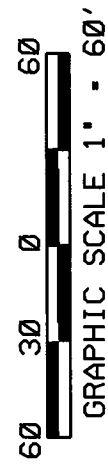
DIVISION OF HIGHWAYS
ROWAN COUNTY

PROJECT: 81631503 (1-251CB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD) TO NORTH OF SR 2120
(LONG FERRY RD) NEAR SPENCER

SHEET 30 OF 35
REVISED 8/10/05

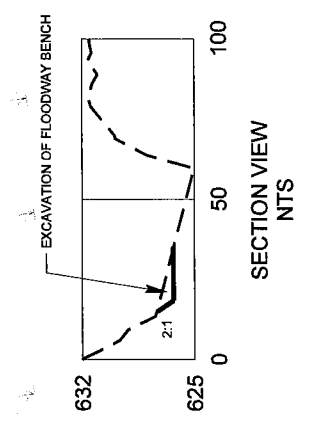


**SITE 9
PLAN VIEW**



DENOTES FILL IN SURFACE WATER
DENOTES TEMPORARY FILL IN SURFACE WATER

FLOODPLAIN BENCHES



WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Fill In Wetlands (cc)	Temp. Fill In Wetlands (cc)	Excavation In Wetlands (cc)	Mechanized Clearing (Method III) (cc)	Fill In SW (Natural) (cc)	Fill In SW (Pond) (cc)	Temp. Fill In SW (cc)	Existing Channel Impacted (ft)	Natural Stream Design (ft)	
1	647+50-L-(LT/RT)	30" RCP	0	0	0	0	0.000	0	0.004	102	0	
2	680+00-L-(LT/RT)	30" RCP	0	0	0	0	0.020	0	0.002	163	0	
3	49+27-CSRI-(LT)	18" RCP	0	0	0	0	0.007	0	0.001	80	0	
4	CRP/C 16+00	18" RCP	0	0	0	0.002	0.020	0	0.002	90	0	
5	CRP/B 18+00 to CRP/A 25+00	NONE	0	0	0	0	0.640	0	0	864	1375	
6	31+00 -CSRC- (LT)	NONE	0.047	0	0	0	0.009	0	0.001	200	0	
7A	807+50-L- (RT)	18"/30" RCP	0	0	0	0	0.020	0	0.001	162	0	
7B	812+23 -L- (LT/RT)	6"/8" RCBC	0	0	0	0	0.030	0	0.005	200	0	
8	73+00 -CSRI-	NONE	0.3	0	0	0.17	0.000	0	0.004	85	0	
9	752+65.85-L-(LT/RT)	4,11"x13" RCBC	0	0	0	0	0.000	0	0.027	114	0	
10	63+97.5 to 66+98.5 CSRI	3-span bridge	0	0	0	0	0.000	0	0	0	0	
TOTALS:			0.347	0	0	0.172	0.866	0	0.047	2060	0	1375

SITE 3: 80ft. Does not require mitigation.

SITE 6: 163ft. Does not require mitigation.

37ft. Does require mitigation

SITE 7A: 162ft. Does not require mitigation.

SITE 8: 85ft. Does not require mitigation.

Temporary In-stream work areas = 200 linear feet (0.047 acres).

NCDOT

DIVISION OF HIGHWAYS
ROMAN COUNTY

PROJECT: 81631503 (I-25/ICB)
I-85 FROM NORTH OF SR 1002 (BRINGLE
FERRY RD.) TO NORTH OF SR 2120
(LONG FERRY RD.) NEAR SPENCER
SHEET 34 OF 35
REVISED 8/10/05

<u>PARCEL NO.</u>	<u>NAMES</u>	<u>ADDRESSES</u>
1	KEVIN CAHOON	P.O.BOX 1155 THOMASVILLE N.C.27360
2	JAMES E.SMITH	453 STEEPLECHASE TRAIL SALISBURY N.C.28144
9	WALLACE PROPERTIES	301 N.MAIN ST.SALISBURY N.C.28145-0102
10	VOYLS W.& SHARON TYSINGER	740 CHOATE RD.SALISBURY N.C.28146
12	NEW HOPE BAPTIST CHURCH	830 CHOATE RD.SALISBURY N.C.28146
16	OLIN E.STAMPER & WIFE	308 HENDERSON ST.SALISBURY N.C.28144
14,17,27	ROBERT LEE & STELLA RUSHER	721 ANDREWS ST.SALISBURY N.C.28144-8714
28	CECIL B.DAY COMPANIES,INC.	7000 CENTRAL PARKWAY NE STE.850 ATLANTA GA.30328
29	DEBORAH T.AREY	2685 PROVIDENCE CHURCH RD.SALISBURY N.C.28146
37	BURLENA N.LYERLY	1031 OLD MOCKSVILLE RD.SALISBURY N.C.28144
65	MARY LONG	OVERHILL DR.SALISBURY N.C.28144
67	TEDDY BARNES & WIFE	405 WILLOW CREEK DR.SALISBURY N.C.28146-2469
18A	CLARICE H.& KAREN L ROE	2 LAUREL BROOK CT.GREENSBORO,N.C.27407-5037
40	JERRY J.TREVEY & WIFE JAMES E.EPLING & WIFE	427 RICHMOND RD.SALISBURY N.C.28146
68	H.L.HINKLE JR.	655 HACKETT ST.SALISBURY N.C.28146
69	PAUL HINKLE & WIFE	445 HINKLE LN.SALISBURY N.C.28146
73	WILLIAM D.MORRIS & WIFE	110 SCOTTSDALE DR.SALISBURY N.C.28146

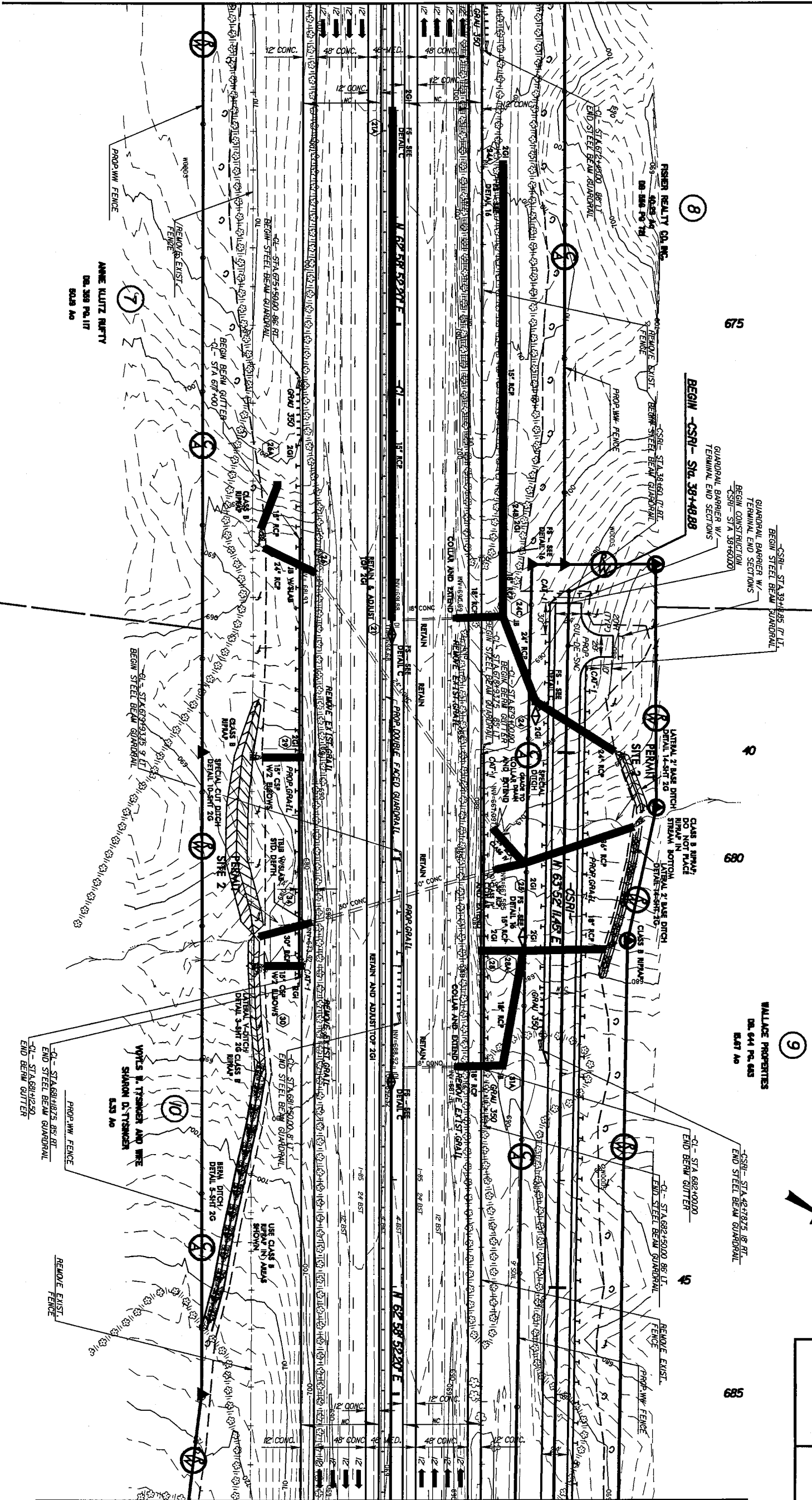
NCDOT

DIVISION OF HIGHWAYS
 ROWAN COUNTY

PROJECT: 81631503 (1-251ICB)
 I-85 FROM NORTH OF SR 1002 (BRINGLE
 FERRY RD.) TO NORTH OF SR 2120
 (LONG FERRY RD.) NEAR SPENCER
 SHEET 35 OF 35
 REVISED 8/10/05

REVISIONS

MATCH TO SHEET 6 STA. 672+00 -CL-



MATCH TO SHEET 8 STA. 686+00 -CL-



PROJECT REFERENCE NO.	1-2811 CB	SHEET NO.	7
ROADWAY DESIGN ENGINEER		PROFESSOR ENGINEER	

FOR PROFILE SEE SHEETS 19, 39

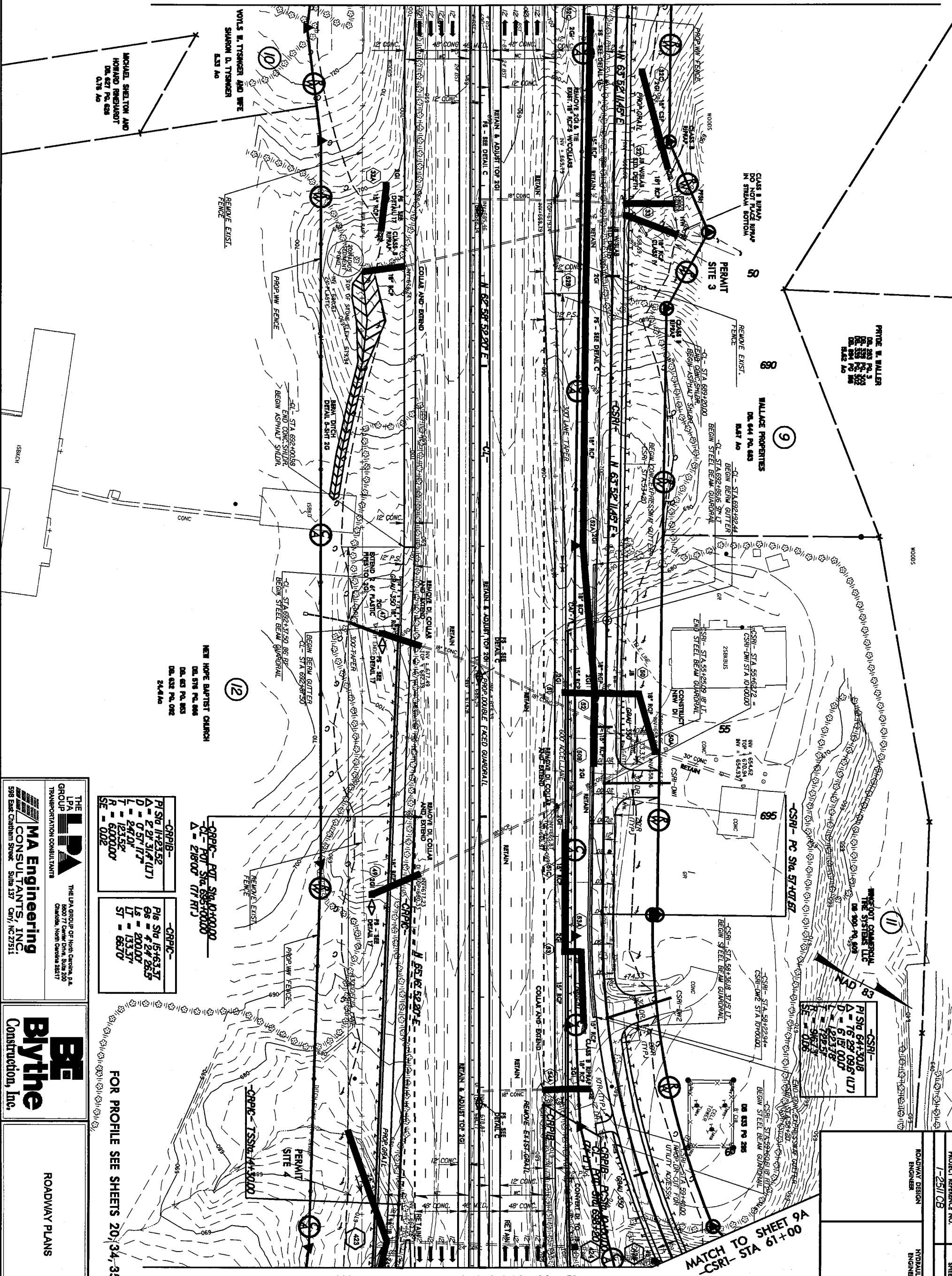

THE LPA GROUP
 GROUP
 TRANSPORTATION CONSULTANTS
 THE LPA GROUP OF North Carolina, P.A.
 6800 77 Center Drive, Suite 200
 Charlotte, North Carolina 28217
MA Engineering CONSULTANTS, INC.
 598 East Chatham Street
 Suite 137
 Cary, NC 27511


Bythe Construction, Inc.

ROADWAY PLANS

REVISIONS

MATCH TO SHEET 7 STA. 686+00 -CL-



MATCH TO SHEET 9A STA. 700+00 -CL-

THE LPA GROUP
TRANSPORTATION CONSULTANTS

MA Engineering
CONSULTANTS, INC.
598 East Charleston Street, Suite 137
Cary, NC 27511

THE LPA GROUP OF North Carolina, P.A.
8600 77 Center Drive, Suite 200
Charlotte, North Carolina 28217

BE
Bythe
Construction, Inc.

ROADWAY PLANS

<p>-CRPB- PI Stg 1H2352 D = 2' 31" (L7) L = 0' 31" (L7) T = 24' 0" R = 12352' SE = 002</p>	<p>-CRPB- PI Stg 154537 D = 4' 24" (L7) Ls = 2000' LT = 13337' ST = 6637'</p>
--	---

-CRPB- PT. STA. 690000
CL - POT. STA. 690000
D = 2' 8" (L7)
L = 218' 0" (L7 RT)

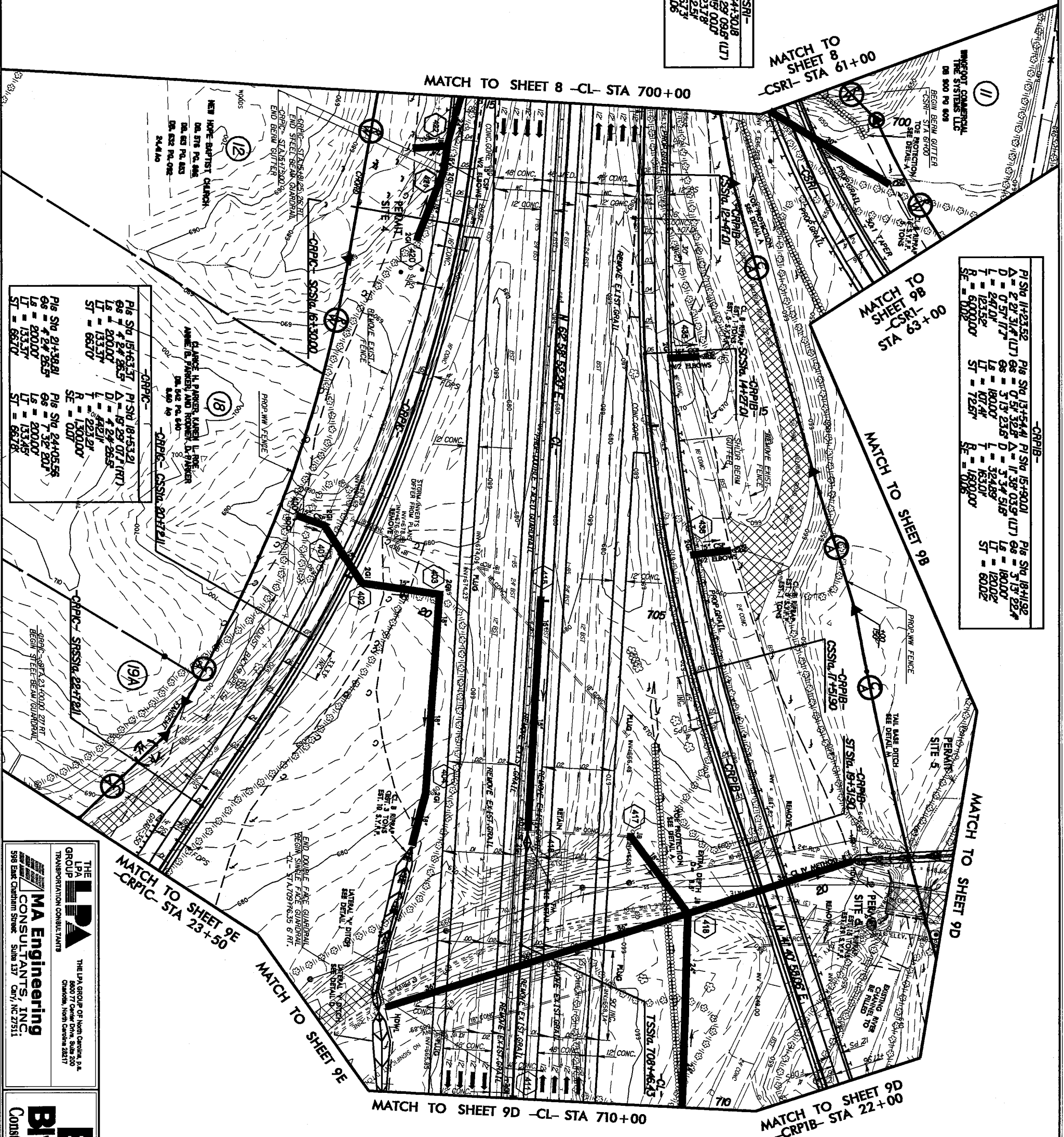
FOR PROFILE SEE SHEETS 20, 34, 35, 39

PROJECT REFERENCE NO.	1-2511 CB
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	
SHEET NO.	8

-CSRI-	
PI STA 64+30.8	
Δ = 76.29' 09.8" (UT)	
D = 619' 00.0"	
L = 1223.78'	
T = 722.51'	
R = 9627.3'	
SE = 0.06	

-CRPIB-			
PI STA 11+23.52	PI STA 13+54.41	PI STA 15+90.01	PI STA 18+41.92
Δ = 27.31' 4" (UT)	Δ = 0.51' 32.8" (UT)	Δ = 11.38' 03.9" (UT)	Δ = 3.13' 52.4" (UT)
D = 0.51' 7.7"	D = 5.13' 23.6"	D = 5.34' 51.8"	D = 180.00'
L = 241.01'	L = 180.00'	L = 324.59'	L = 180.00'
T = 123.52'	T = 101.41'	T = 163.50'	T = 180.00'
R = 6000.00'	R = 1800.00'	R = 1800.00'	R = 6002'
SE = 0.02	SE = 0.06	SE = 0.06	SE = 0.02

-CL-	
PI STA 70+88.44	
Δ = 1.47' 59.5"	
D = 240.00'	
L = 240.00'	
T = 180.00'	
R = 180.00'	
SE = 0.00	



-CRPIC-	
PI STA 15+63.57	PI STA 18+53.21
Δ = 4.24' 28.5"	Δ = 19.29' 07.7" (RT)
D = 200.00'	D = 4.24' 28.5"
L = 133.37'	L = 442.11'
T = 66.70'	T = 221.91'
R = 1000.00'	R = 1000.00'
SE = 0.01	SE = 0.01

THE LPA GROUP OF HPA GROUP
 TRANSPORTATION CONSULTANTS

 MA Engineering
 CONSULTANTS, INC.
 598 East Chestnut Street
 Suite 137
 Cent, NC 27511

BE
 Bythe
 Construction, Inc.

PAVEMENT REMOVAL
 FOR PROFILE SEE SHEETS 21, 34, 35, 39

PROJECT REFERENCE NO.	1-2511 CB	SHEET NO.	9A
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NAD 83

REVISIONS

-CSR1-	
PI STA 64+50.0	(LT)
A - 76.29	09.6
D - 6.15	00.0
L - 122.37	
T - 722.5	
R - 967.3	
SE - 0.06	

-O148-	
PI STA 1149.275	(LT)
A - 38.33	36.8
D - 11.14	04.4
L - 343.23	
T - 718.40	
R - 510.0	
SE - 0.06	

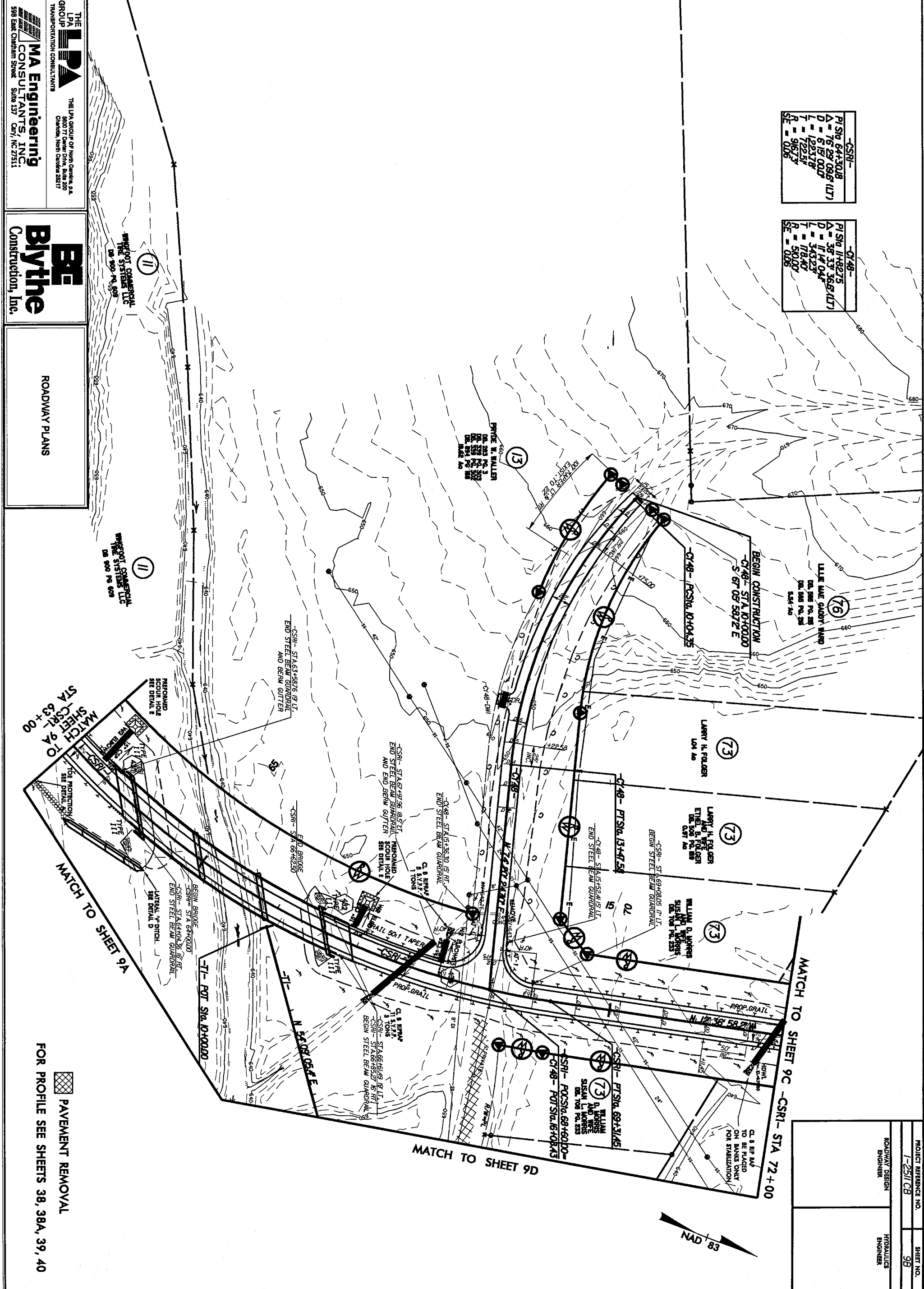
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baysden 21 12/20/99

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MA Engineering CONSULTANTS, INC.
598 East Chatham Street, Suite 137, Cary, NC 27511

BE Bythe Construction, Inc.

ROADWAY PLANS



-O148-	
PI STA 1010.000	(LT)
A - 67.05	58.7
D - 5.00	0.0
L - 78.40	
T - 510.0	
R - 510.0	
SE - 0.06	

-O148-	
PI STA 1347.50	(LT)
A - 25.46	
D - 25.46	
L - 122.58	
T - 122.58	
R - 122.58	
SE - 0.06	

-CSR1-	
PI STA 6913.145	(LT)
A - 11.14	04.4
D - 11.14	04.4
L - 343.23	
T - 718.40	
R - 510.0	
SE - 0.06	

-CSR1-	
PI STA 1610.43	(LT)
A - 16.10	4.3
D - 16.10	4.3
L - 16.10	4.3
T - 16.10	4.3
R - 16.10	4.3
SE - 0.06	

-CSR1-	
PI STA 1610.43	(LT)
A - 16.10	4.3
D - 16.10	4.3
L - 16.10	4.3
T - 16.10	4.3
R - 16.10	4.3
SE - 0.06	



PROJECT REFERENCE NO.	1-2511 CB	SHEET NO.	38
ROADWAY DESIGN ENGINEER		PROFESSOR ENGINEER	

MATCH TO SHEET 9A
STA 63+00

MATCH TO SHEET 9A

MATCH TO SHEET 9D

MATCH TO SHEET 9C -CSR1- STA 72+00

FOR PROFILE SEE SHEETS 38, 38A, 39, 40

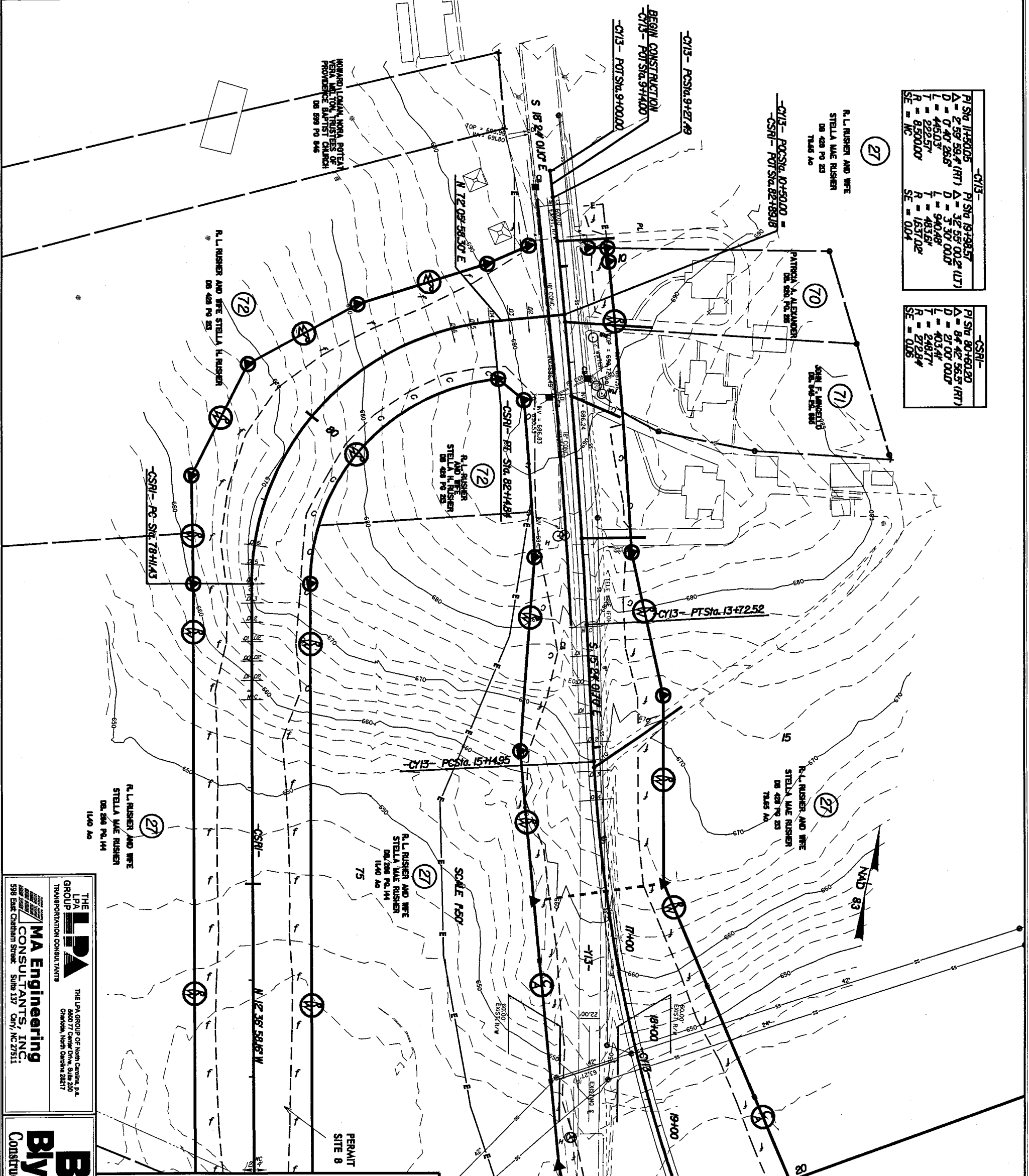
PAVEMENT REMOVAL

REVISIONS

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cbaysden AT 1820538

-CY13-	
PI STA 11+50.05	PI STA 19+98.57
Δ = 2.59 39.4' (RT)	Δ = 32.55 102.2' (LT)
D = 0.40 28.6'	D = 3.30 100.0'
L = 44.03'	L = 94.04'
T = 22.25'	T = 48.34'
R = 8.500000'	R = 1.63702'
SE = MC	SE = 0.04

-CSRI-	
PI STA 80+80.90	PI STA 84.42 56.5' (RT)
Δ = 0.42 27.0'	Δ = 27.00 100.0'
D = 0.40 28.6'	D = 3.30 100.0'
L = 44.03'	L = 94.04'
T = 22.25'	T = 48.34'
R = 8.500000'	R = 1.63702'
SE = MC	SE = 0.06



THE LPA GROUP OF NORTH CAROLINA, P.A.
8800 77 Center Drive, Suite 200
Charlotte, North Carolina 28217

TRANSPORTATION CONSULTANTS

MA Engineering
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598 East Chestnut Street
Suite 137 City, NC 27511

BE
Bythe
Construction, Inc.

ROADWAY PLANS

MATCH TO SHEET 9B -CSRI- STA 72+00

MATCH TO SHEET 9B

MATCH TO SHEET 9D
-CY13- STA 20+00

FOR PROFILE SEE SHEETS 31, 32A, 40

☒ PAVEMENT REMOVAL

PROJECT REFERENCE NO.	1-2517 CB
SHEET NO.	30
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	

REVISIONS

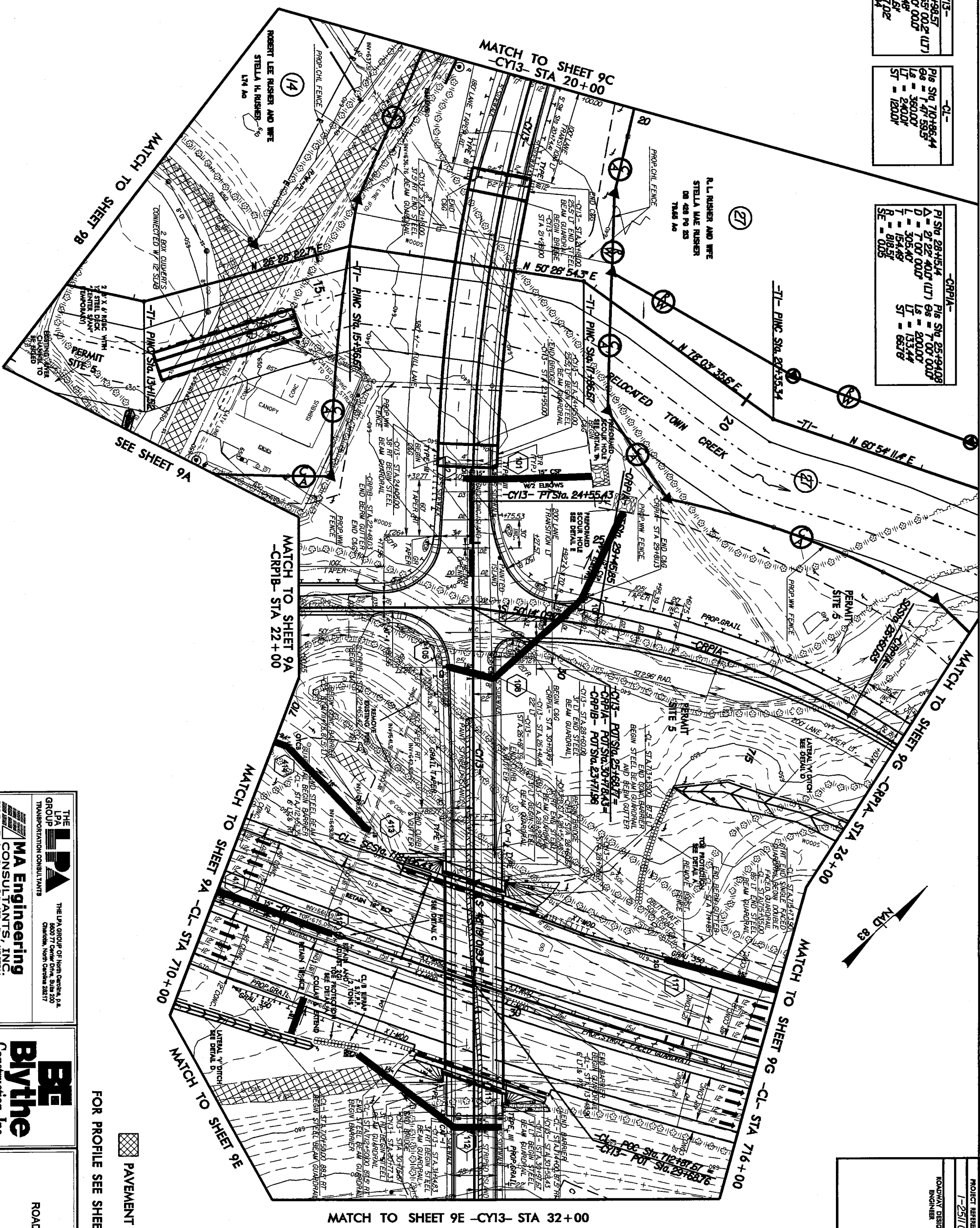
8/17/99

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 dbaysden AT 1 P20538

-C13-	PI STA 19+98.57	PI STA 20+00
A	32.55' 00.00'	68' 00.00'
D	3' 30' 00.00"	1' 00' 00.00"
L	940.48'	360.00'
T	453.61'	240.00'
R	1637.02'	1200.00'
SE	0.04'	0.00'

-C1-	PI STA 70+98.54	PI STA 71+00.00
A	1' 00' 00.00"	1' 00' 00.00"
D	305.40'	133.44'
L	154.48'	81.61'
T	154.48'	81.61'
R	816.57'	66.76'
SE	0.00'	0.00'

-CRPIA-	PI STA 28+45.14	PI STA 29+41.08
A	21' 22" 40.00"	7' 00" 00.00"
D	7' 00" 00.00"	133.44'
L	305.40'	133.44'
T	154.48'	81.61'
R	816.57'	66.76'
SE	0.00'	0.00'



PAVEMENT REMOVAL

FOR PROFILE SEE SHEETS 22, 31, 33, 34

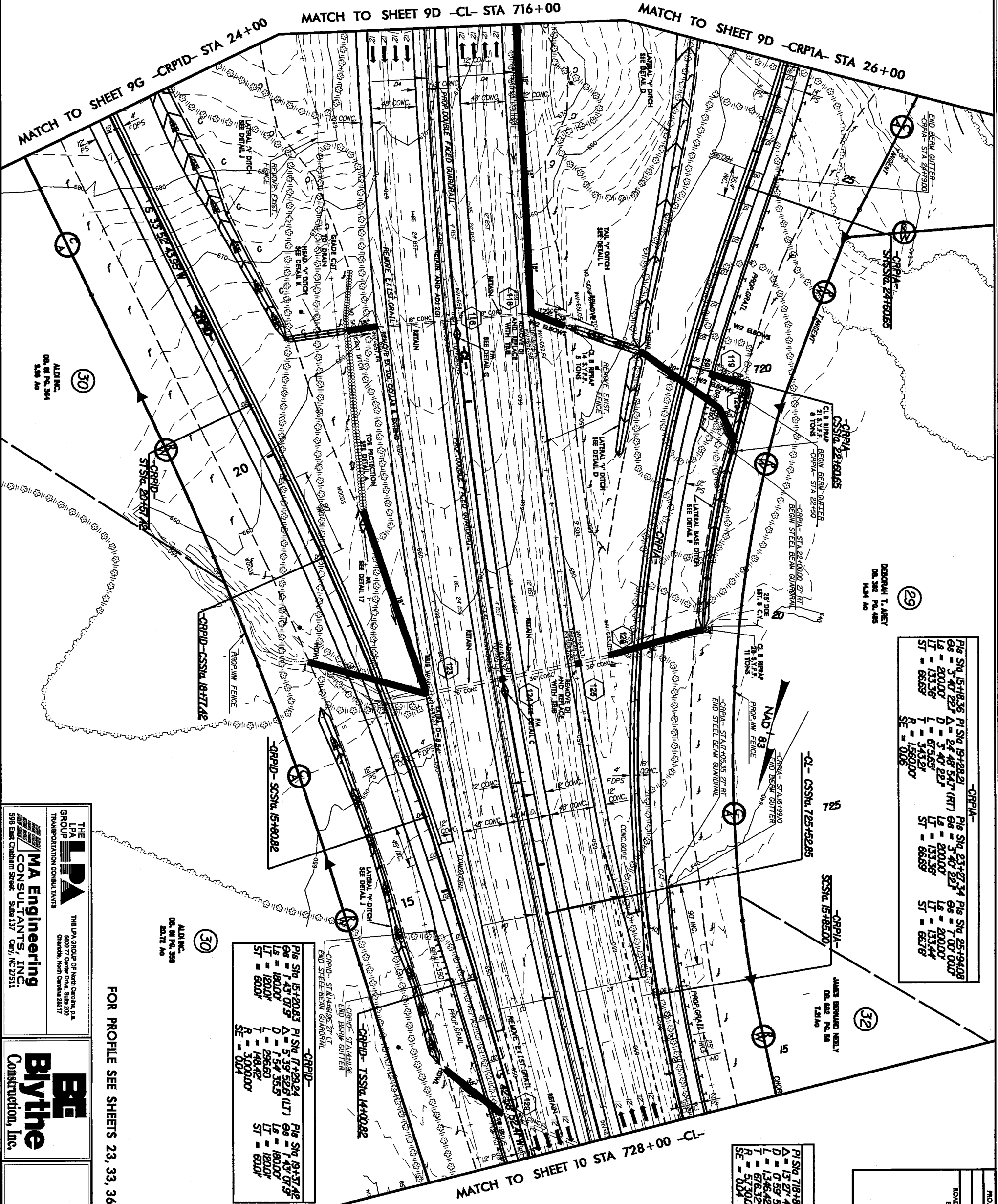
LPA GROUP
 TRANSPORTATION CONSULTANTS
MA Engineering CONSULTANTS, INC.
 598 BARK CREEK DR. SUITE 117
 CHARLOTTE, NC 27251

BE Bytne
 Construction, Inc.

ROADWAY PLANS

PROJECT REFERENCE NO.	1-2511 CB
SHEET NO.	90
ROADWAY DESIGN ENGINEER	PROBALIS ENGINEER

REVISIONS



CRPIA- CSSIA 22+60.05	CRPIA- STA 22+00.00 27' RT BEGIN STEEL BEAM GUARDRAIL	CRPIA- STA 23+00.00 27' RT END BEAM GUTTER
CRPIA- STA 23+00.00 27' RT END BEAM GUTTER	CRPIA- STA 24+00.00 27' RT BEGIN STEEL BEAM GUARDRAIL	CRPIA- STA 25+00.00 27' RT END BEAM GUTTER
CRPIA- STA 25+00.00 27' RT END BEAM GUTTER	CRPIA- STA 26+00.00 27' RT BEGIN STEEL BEAM GUARDRAIL	CRPIA- STA 27+00.00 27' RT END BEAM GUTTER

CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82
CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82
CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82	CRPID- SSIA 15+80.82

CRPIA- STA 727+00.89	CRPIA- STA 727+00.89
CRPIA- STA 727+00.89	CRPIA- STA 727+00.89
CRPIA- STA 727+00.89	CRPIA- STA 727+00.89

FOR PROFILE SEE SHEETS 23, 33, 36

LPA GROUP
 TRANSPORTATION CONSULTANTS
MA Engineering CONSULTANTS, INC.
 598 East Chatham Street
 Suite 137
 Cary, NC 27511

BE
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 Construction, Inc.

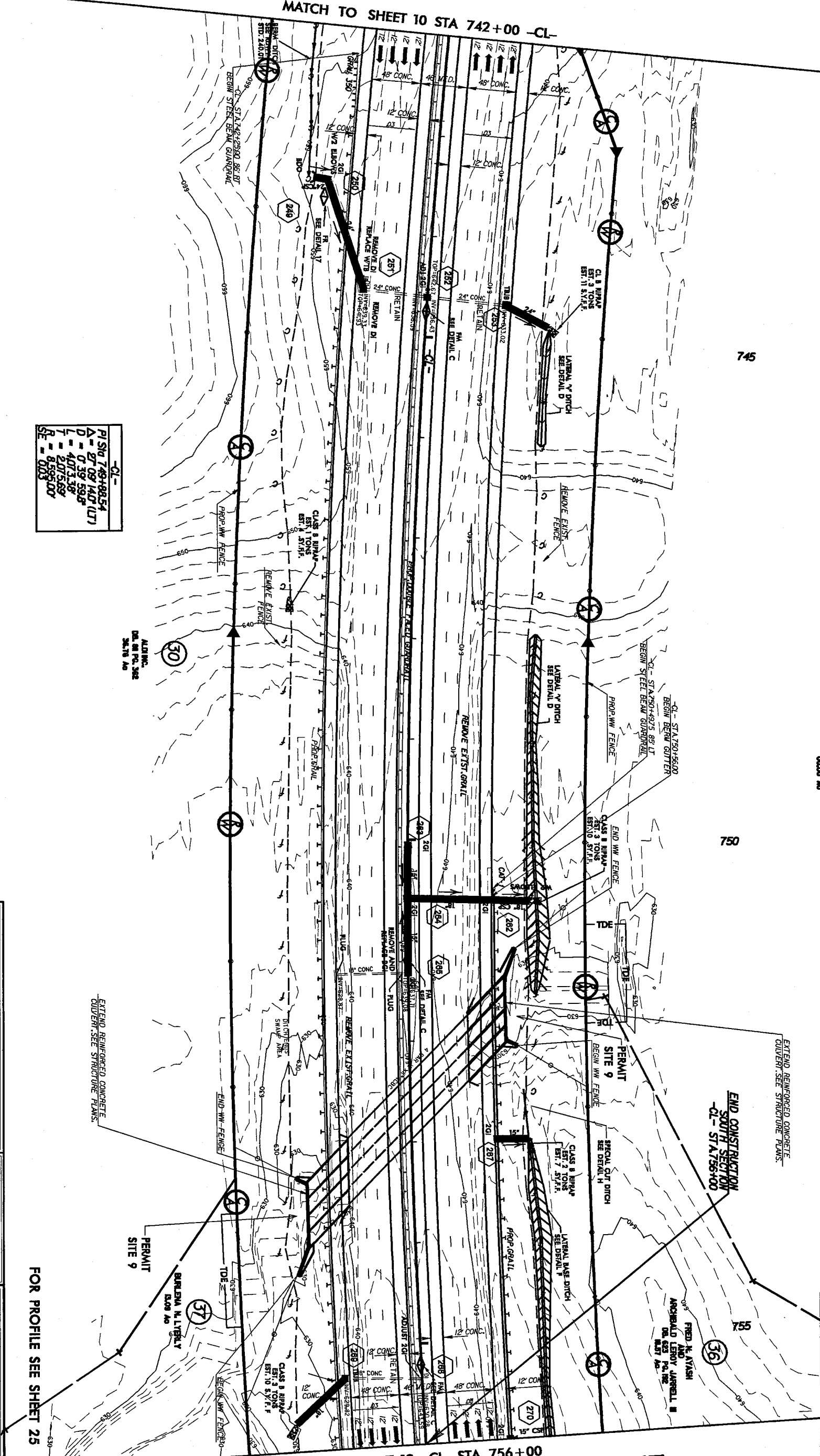
ROADWAY PLANS

PROJECT REFERENCE NO.	1-2511 CB	SHEET NO.	96
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

REVISIONS

MATCH TO SHEET 10 STA 742+00 -CL-

-CL-	
PI STA	749+88.54
A	0' 09" 59.8'
D	0' 39" 59.8'
L	4073.38'
T	2075.69'
E	8595.00'
SE	0.03



CITY OF SALSBUARY
DE. 000 P.C. 000
00.000 A.D.

33

745

750

END CONSTRUCTION
SOUTH SECTION
-CL- STA 756+00

EXTEND REINFORCED CONCRETE
CULVERT. SEE STRUCTURE PLANS.



FRED N. AVASH
AND
ANGELA LEROY JARRELL
DR. 003 P.C. 002
00.000 A.D.

36

MATCH TO SHEET 12 -CL- STA 756+00
(NORTH SECTION NOT INCLUDED IN THIS PLAN SET)

FOR PROFILE SEE SHEET 25

THE LPA GROUP
TRANSPORTATION CONSULTANTS

MA Engineering
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598 East Chatham Street
Suite 157
Cary, NC 27511

THE LPA GROUP OF North Carolina, P.A.
6600 77 Center Drive, Suite 200
Charlotte, North Carolina 28217

BE
Bytne
Construction, Inc.

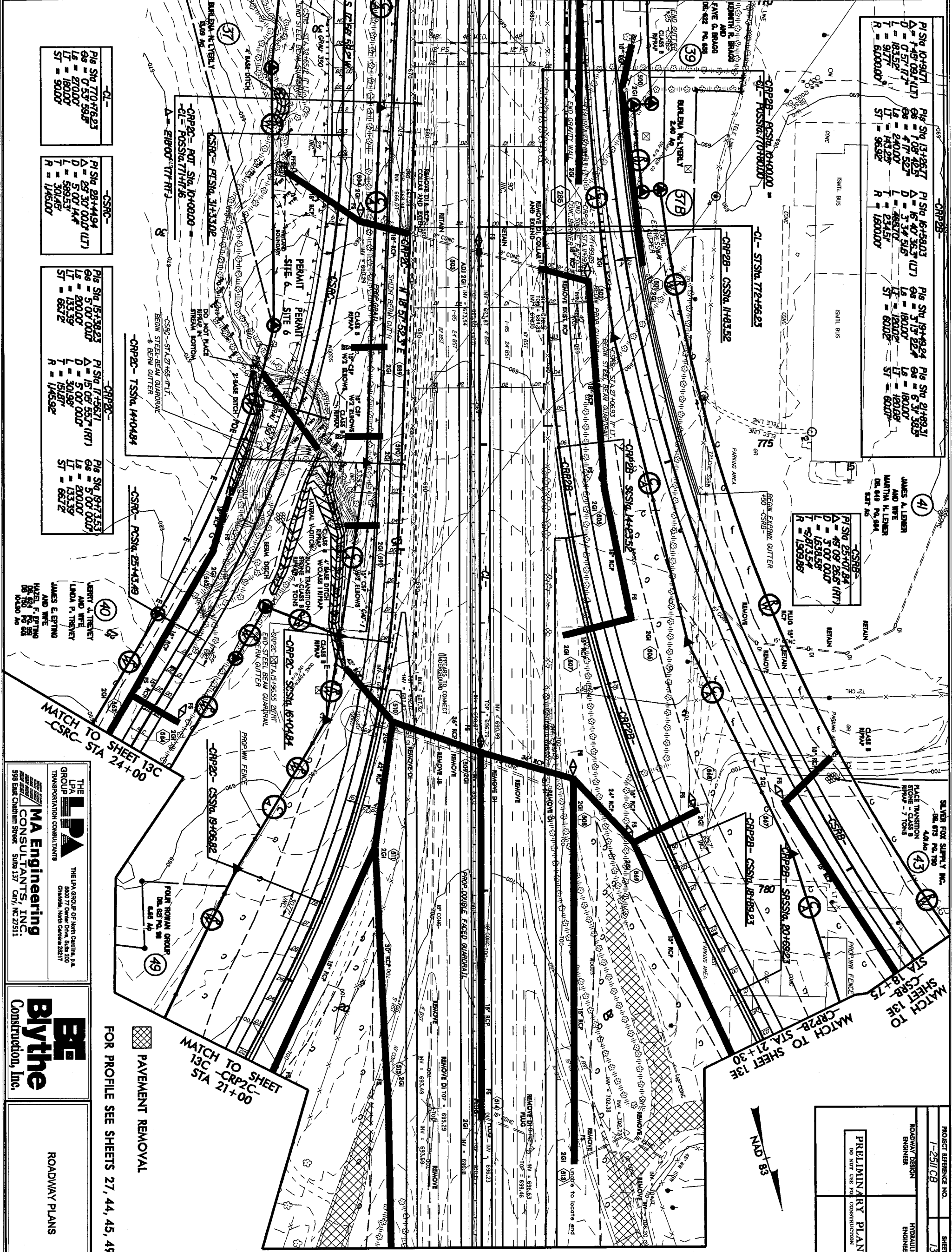
ROADWAY PLANS

PROJECT REFERENCE NO.	1-2511/08	SHEET NO.	11
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

REVISIONS

04-AUG-2005 11:56
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dbaysden AT 1/20/05

MATCH TO TO SHEET 12 -CL- STA. 770+00



P/Sig 10-9/07 Δ = 7'08" 09.1 (LT) D = 0'57" 17.7 L = 183.52 T = 91.77 R = 6000.00	P/Sig 13+26.7 Δ = 7'08" 42.5 D = 3'34" 51.6 L = 240.00 T = 143.29 R = 36.92	P/Sig 16+56.03 Δ = 16'40" 36.3 (LT) D = 3'34" 51.6 L = 234.51 T = 234.51 R = 1800.00	P/Sig 19+42.4 Δ = 3'13" 22.4 D = 5'00" 00.0 L = 1800.00 T = 1200.00 R = 600.00	P/Sig 21+69.31 Δ = 6'31" 38.5 D = 3'13" 22.4 L = 1800.00 T = 1200.00 R = 600.00
--	--	---	---	--

P/Sig 25+07.24 Δ = 4'09" 26.6 (RT) D = 5'00" 00.0 L = 1538.58 T = 873.54 R = 1509.56

P/Sig 770+62.3 Δ = 0'53" 59.8 D = 2700.00 L = 1800.00 T = 900.00
--

P/Sig 28+44.94 Δ = 28'30" 00.0 (LT) D = 5'00" 00.0 L = 589.53 T = 301.45 R = 145.00
--

P/Sig 15+38.23 Δ = 5'00" 00.0 D = 2000.00 L = 133.39 T = 66.72 R = 145.92
--

P/Sig 17+56.71 Δ = 15'05" 55.7 (RT) D = 5'00" 00.0 L = 301.98 T = 151.87 R = 145.92
--

P/Sig 19+73.53 Δ = 5'00" 00.0 D = 2000.00 L = 133.39 T = 66.72
--

(40) JAMES A. LEHNER AND WIFE LINDA F. TRENEY JAMES E. EPTING AND WIFE MARY F. EPTING DR. 750 PO BOX 10430

THE LPA GROUP
 TRANSPORTATION CONSULTANTS
MA Engineering CONSULTANTS, INC.
 598 East Chatham Street
 Suite 137
 Cary, NC 27511

BE
Bytne
 Construction, Inc.
 ROADWAY PLANS

FOR PROFILE SEE SHEETS 27, 44, 45, 49, 51
 PAVEMENT REMOVAL

PROJECT REFERENCE NO.	1-2511/08	SHEET NO.	13A
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			

MATCH TO SHEET 13B -CL- STA. 784+00

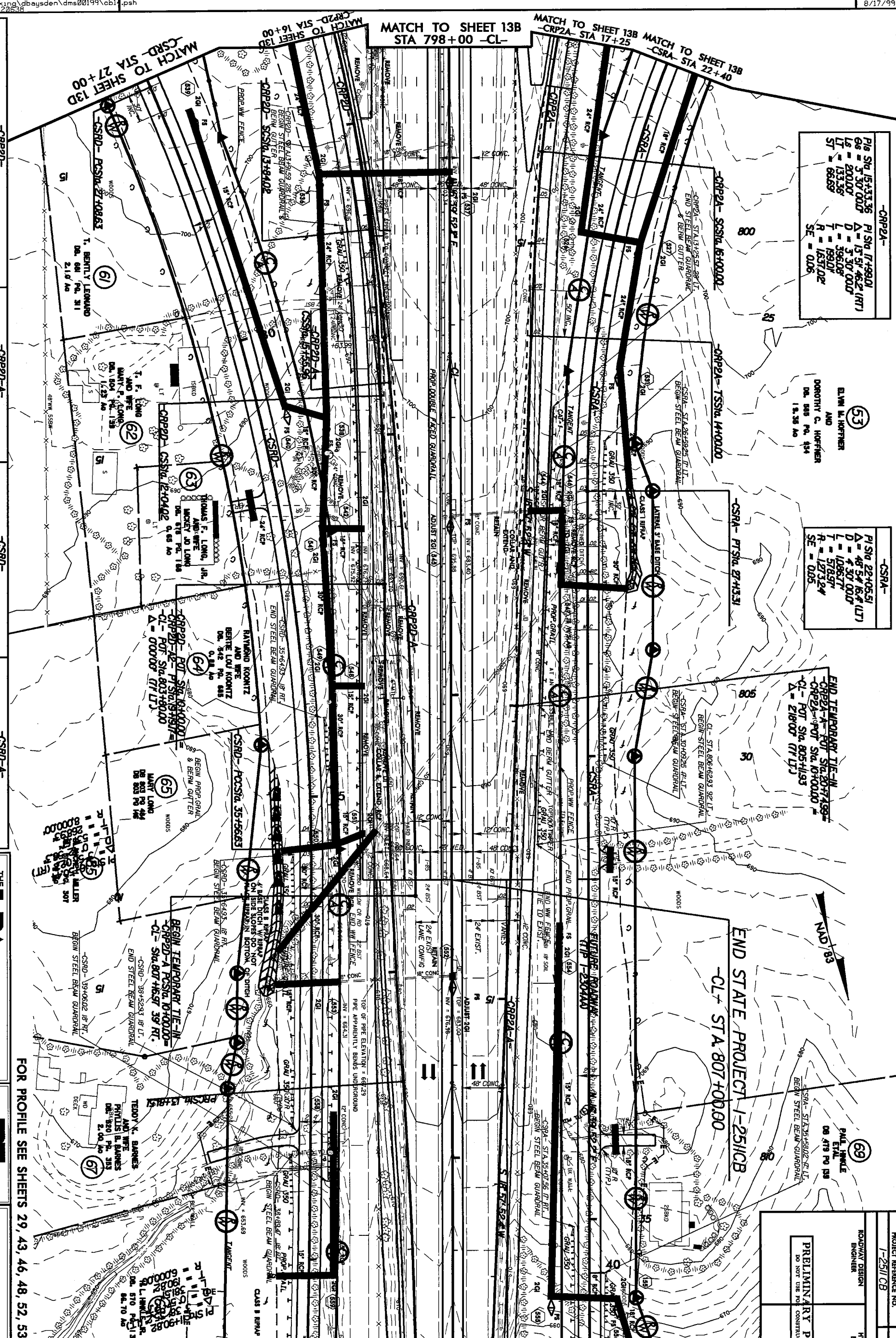
MATCH TO SHEET 13E
CRP2B-SSSSIA 20+69.21
MATCH TO SHEET 13E
CRP2B-SSSSIA 21+30

MATCH TO SHEET 13C -CRP2C- STA 21+00

MATCH TO SHEET 13C -CSRC- STA 24+00

REVISIONS

04-AUG-2005 11:51
Project: s:\working\dbsayden\dms00199\cbl...
User: sayden AT 1 PA20538



<p>PI STA 11+02.02 D = 156.53' (LT) L = 20.00' T = 102.00' R = 6000.00' SE = 0.02</p>	<p>PI STA 13+41.43 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 15+38.72 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 17+49.01 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 19+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 21+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 23+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 25+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 27+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 29+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 31+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 33+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 35+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 37+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 39+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 41+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 43+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 45+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 47+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 49+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 51+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 53+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 55+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 57+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 59+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 61+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 63+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 65+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 67+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>	<p>PI STA 69+49.56 D = 151.32' L = 18.00' T = 107.41' R = 725.00' SE = 0.05</p>
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CRP2A-

PI STA 15+33.36	PI STA 17+49.01
D = 330.00'	D = 151.32' (RT)
L = 20.00'	L = 330.00'
T = 133.36'	T = 199.00'
R = 66.69'	R = 1637.02'
SE = 0.06	SE = 0.06

ELVIN W. HOFFNER
AND
DOROTHY C. HOFFNER
DR. 805 PO. 434
1.8.35 AC

CSRA-

PI STA 22+05.51	PI STA 27+43.31
D = 45.54' (RT)	D = 27.43' (RT)
L = 4.30' (RT)	L = 10.63'
T = 1.68'	T = 5.69'
R = 1.27'	R = 1.27'
SE = 0.05	SE = 0.05

END TEMPORARY TIE-IN

CRP2A-POT STA 807+00.00	PI STA 803+11.93
D = 216.00'	D = 216.00'
L = 216.00'	L = 216.00'
T = 216.00'	T = 216.00'
R = 216.00'	R = 216.00'
SE = 0.06	SE = 0.06

END STATE PROJECT I-25/ICB

CL+ STA 807+00.00	PI STA 807+00.00
D = 216.00'	D = 216.00'
L = 216.00'	L = 216.00'
T = 216.00'	T = 216.00'
R = 216.00'	R = 216.00'
SE = 0.06	SE = 0.06

PAUL E. WINKLE
DR. 419 PO. 138

PROJECT REFERENCE NO.	1-25/ICB
SHEET NO.	14
ROADWAY DESIGN ENGINEER	PRELIMINARY PLANS
HYDRAULICS ENGINEER	DO NOT USE FOR CONSTRUCTION

THE LPA GROUP OF NORTH CAROLINA, P.A.
TRANSPORTATION CONSULTANTS
LPA Engineering
CONSULTANTS, INC.
598 East Chatham Street
Suite 137
Cary, NC 27511

BE
Bytne
Construction, Inc.
ROADWAY PLANS

FOR PROFILE SEE SHEETS 29, 43, 46, 48, 52, 53

MATCH TO SHEET 15 STA. 812+00 -CL-

