



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

November 13, 2006

N. C. Dept. of Environment and Natural Resources  
Division of Coastal Management  
Wilmington District  
127 Cardinal Drive Ext.  
Wilmington, NC 28405-3845

Attention: Jim Gregson  
District Manager

**SUBJECT: Minor Modification to a CAMA Major Development Permit** for the proposed replacement of Bridge No. 21 over Northeast Cape Fear River on NC 210 in Pender County, Division 3. Federal Aid No. BRSTP-0210(4), State Project No. 8.1271001; TIP No. B-4223, Debit \$100 from WBS No. 33567.1.1.

Dear Mr. Gregson:

Please find enclosed a copy of Utility Plan Drawings and a revised Wetland Impact Summary Sheet for the above-mentioned project. On June 30, 2006 NC Division of Coastal Management (DCM) issued Coastal Area Management Act (CAMA) Major Development Permit Number 123-06 for the above-mentioned project.

Due to the required movement of an overhead power line located to the south of the existing bridge, changes in the impacts have occurred. The proposed work bridge will be shifted to the north to prevent interference between equipment using the work bridge and the overhead power line. The bridge bents from the work bridge will result in approximately 10ft<sup>2</sup> of temporary fill in wetlands. The movement of the overhead power line will also result in the required hand clearing of 0.633 acres of wetlands on the east side of the Northeast Cape Fear River. Hand clearing excludes the use of grubbing equipment. The proposed project will also require the movement of a water line and a telephone line. The water line and telephone line will be relocated using a directional bore in jurisdictional areas.

**REGULATORY APPROVALS**

CAMA: NCDOT requests that the DCM modify the CAMA Major Development Permit issued on June 30, 2006 to authorize the above mentioned activities.

**MAILING ADDRESS:**  
NC DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

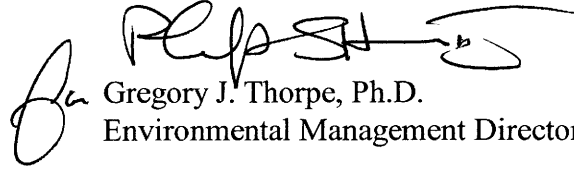
TELEPHONE: 919-715-1334  
FAX: 919-715-5501

WEBSITE: [www.ncdot.org](http://www.ncdot.org)

**LOCATION:**  
2728 CAPITOL BOULEVARD  
PARKER LINCOLN BUILDING, SUITE 240  
RALEIGH NC 27699

Thank you for your assistance with this project. If you have any questions or need additional information please call Mr. Brett Feulner at (919) 715-1488.

Sincerely,

A handwritten signature in black ink, appearing to read 'Gregory J. Thorpe', written over a horizontal line.

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

Cc:

w/ attachment

Mr. John Hennessy, DWQ

Mr. Gary Jordan, USFWS

Mr. Michael Street, NCDMF

Mr. Dave Timpy, USACE

Mr. Mark Staley, Roadside Environmental

Mr. Mason Herndon, Div 3 Environmental Officer

Mr. Travis Wilson, NCWRC

Mr. Ron Sechler, NMFS

Mr. Steve Sollod, NCDCM

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Allen Pope, Division 3 Engineer

w/o attachment

Mr. Jay Bennett, P.E., Roadway Design

Mr. Art McMillan, P.E., Highway Design

Mr. Elmo Vance, PDEA

Mr. Majed Alghandour, P.E., Prog. and TIP

Mr. Scott McLendon, USACE-Wilmington

**WETLAND PERMIT IMPACT SUMMARY**

| Site No.       | Station (From/To) | Structure Size / Type                     | WETLAND IMPACTS                 |                             |                             |                                      |                                |                           | SURFACE WATER IMPACTS |   |                                     |                            |     |  |
|----------------|-------------------|---|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|-----|--|
|                |                   |   | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |     |  |
| 1              | 33+52 -L- +/-     | 5@90'.1@70'.4@100' 54" Prestressed Girder | 0.520                           | 0.000                       | 0.000                       | 0.000                                | 0.350                          | 0.014                     | 0.008                 | 0                                       | 0                                   | 0                          | 0   |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
|                |                   |   |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |     |  |
| <b>TOTALS:</b> |                   |   | 0.520                           | 0.000                       | 0.000                       | 0.000                                | 0.350                          | 0.014                     | 0.008                 | 0.0                                     | 0.0                                 | 0.0                        | 0.0 |  |

**AREA OF WETLAND RESTORATION = 0.956 ACRES**

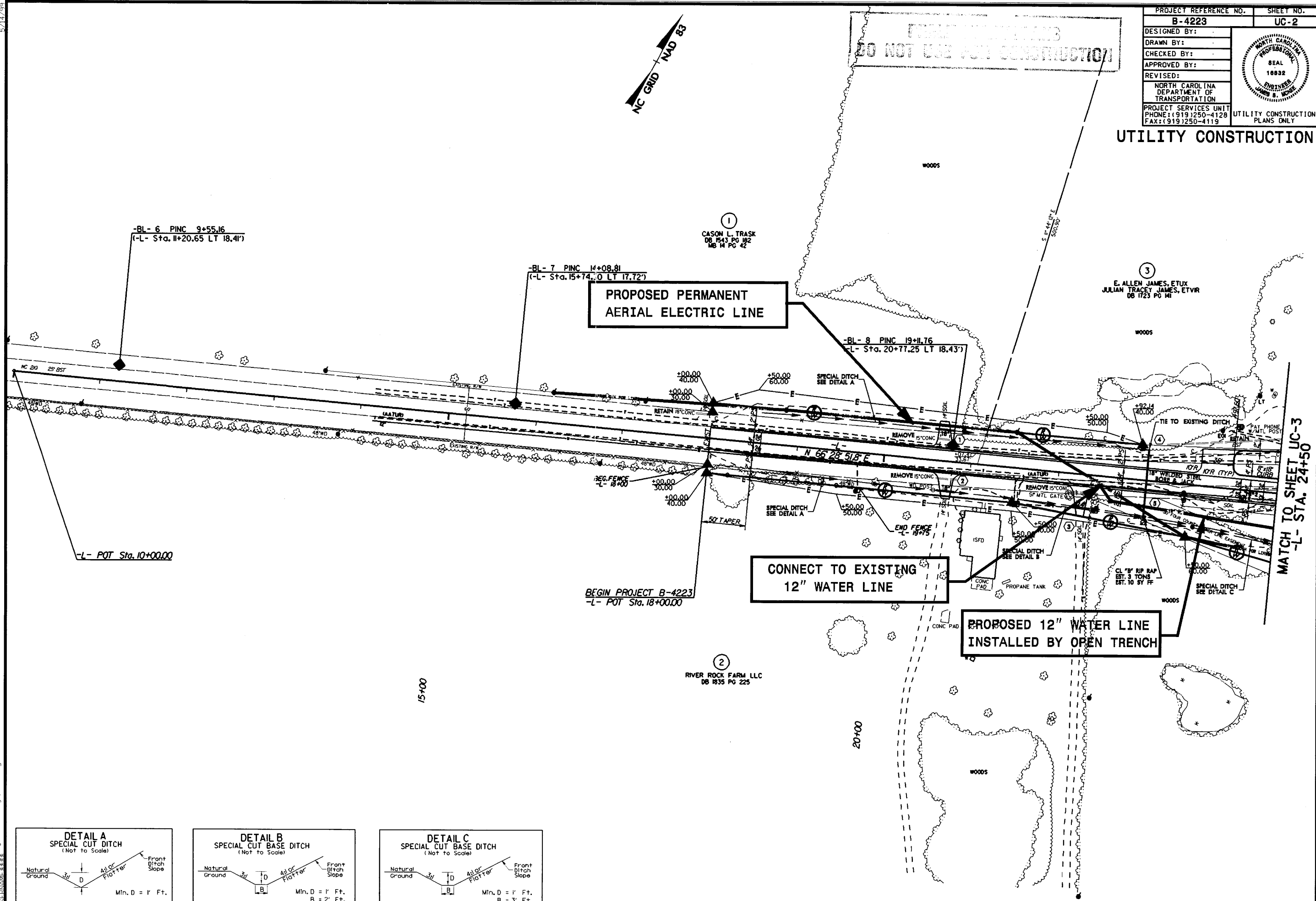
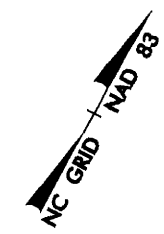
Movement of the overhead power line will require the "hand clearing" of 0.63 acres of wetlands  
 Pile impacts associated with temporary work bridge for temporary bulk head are estimated at 10 sq ft total

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 PENDER COUNTY  
 WBS - 33567.1.1 (B-4223)  
 SHEET 5 of 23 11/7/2006

|  |                          |
|--|--------------------------|
| PROJECT REFERENCE NO.<br><b>B-4223</b>   | SHEET NO.<br><b>UC-2</b> |
| DESIGNED BY:   |                          |
| DRAWN BY:  |                          |
| CHECKED BY:  |                          |
| APPROVED BY:   |                          |
| REVISER:   |                          |
| NORTH CAROLINA<br>DEPARTMENT OF<br>TRANSPORTATION<br>PROJECT SERVICES UNIT<br>PHONE: (919) 250-4128<br>FAX: (919) 250-4119 |                          |
| UTILITY CONSTRUCTION<br>PLANS ONLY   |                          |

**UTILITY CONSTRUCTION**

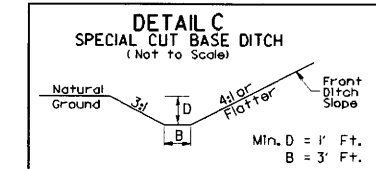
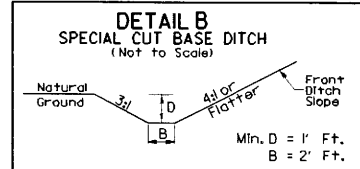
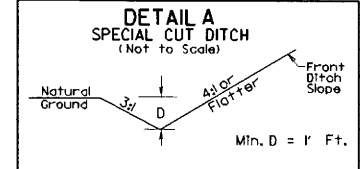
**FILE NO. B-4223  
DO NOT USE FOR CONSTRUCTION**



**PROPOSED PERMANENT  
AERIAL ELECTRIC LINE**

**CONNECT TO EXISTING  
12" WATER LINE**

**PROPOSED 12" WATER LINE  
INSTALLED BY OPEN TRENCH**



-L- STA 18+80 TO 21+50 RT  
-L- STA 18+80 TO 23+00 LT

-L- STA 21+80 TO 23+00 RT

-L- STA 23+00 TO 24+50 RT

MATCH TO SHEET UC-3  
-L- STA. 24+50

FOR -L- PROFILE SEE SHEET 7

5/14/09  
25-OCT-2006 07:55  
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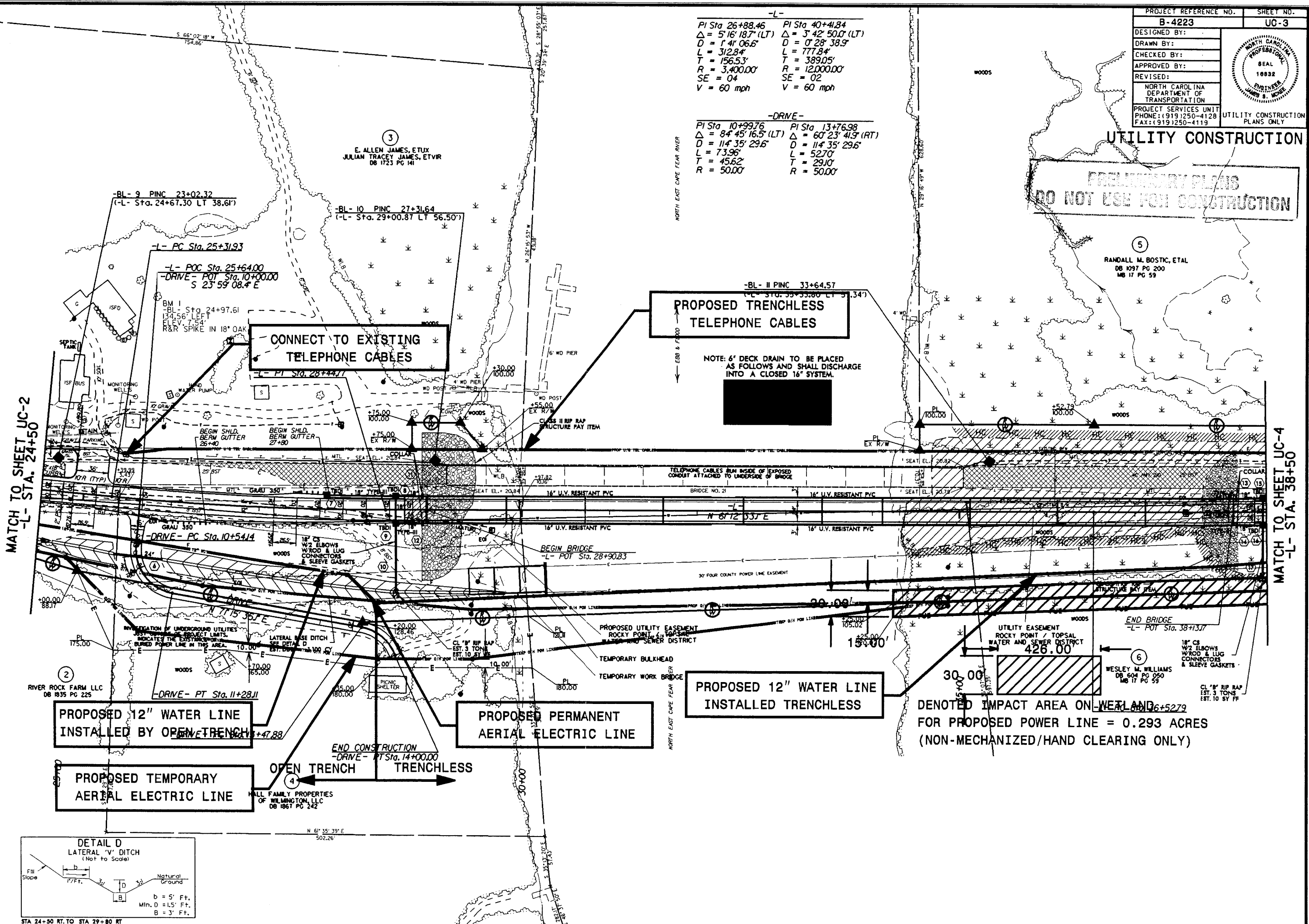
-L-  
 PI Sta 26+88.46 PI Sta 40+41.84  
 $\Delta = 5' 16' 18.7''$  (LT)  $\Delta = 3' 42' 50.0''$  (LT)  
 $D = 1' 4' 06.6''$   $D = 0' 28' 38.9''$   
 $L = 312.84'$   $L = 777.84'$   
 $T = 156.53'$   $T = 389.05'$   
 $R = 3,400.00'$   $R = 12,000.00'$   
 $SE = 04$   $SE = 02$   
 $V = 60$  mph  $V = 60$  mph

-DRIVE-  
 PI Sta 10+99.76 PI Sta 13+76.98  
 $\Delta = 84' 45' 16.5''$  (LT)  $\Delta = 60' 23' 41.9''$  (RT)  
 $D = 114' 35' 29.6''$   $D = 114' 35' 29.6''$   
 $L = 73.96'$   $L = 52.70'$   
 $T = 45.62'$   $T = 29.10'$   
 $R = 50.00'$   $R = 50.00'$

UTILITY CONSTRUCTION

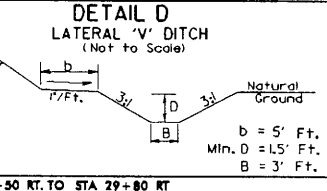
PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION

5  
 RANDALL M. BOSTIC, ETAL  
 DB 1097 PG 200  
 MB 17 PG 59



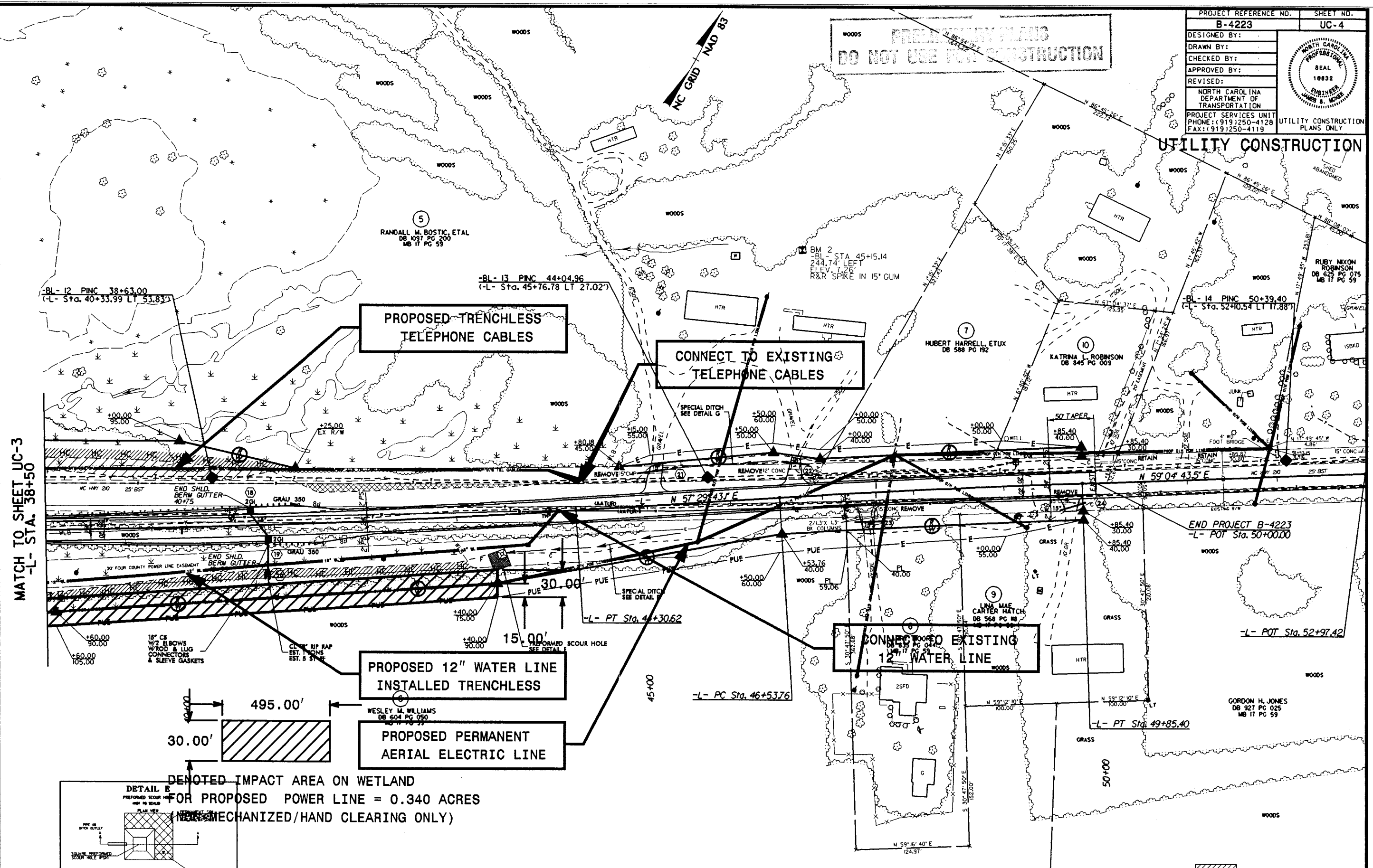
MATCH TO SHEET UC-2  
 -L- STA. 24+50

MATCH TO SHEET UC-4  
 -L- STA. 38+50



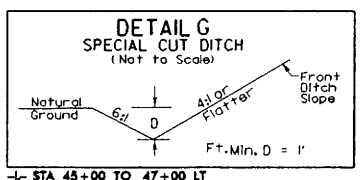
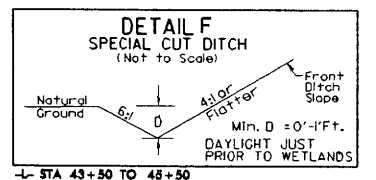
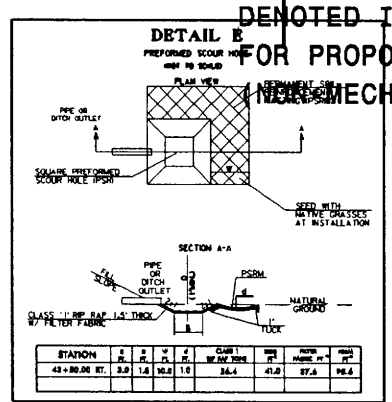
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**PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION**

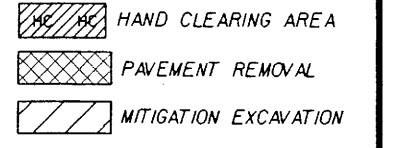


MATCH TO SHEET UC-3  
-L- STA. 38+50

**UTILITY CONSTRUCTION**



|     |   |   |
|-----|---|---|
| -L- | PI Sta 40+41.84<br>Δ = 3° 42' 50.0" (LT)<br>D = 0' 28' 38.9"<br>L = 777.84'<br>T = 389.05'<br>R = 12,000.00'<br>SE = 02<br>V = 60 mph | PI Sta 48+19.59<br>Δ = 1° 35' 00.4" (RT)<br>D = 0' 28' 38.9"<br>L = 331.54'<br>T = 165.83'<br>R = 12,000.00'<br>SE = 02<br>V = 60 mph |
|-----|---|---|



FOR -L- PROFILE SEE SHEET B

24-OCT-2006 14:30  
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