

STATE PROJECT NO. 134-02-0021  
 F.A.P. NO. BR-5801 (506)  
 LA 8 BRIDGES AND APPROACHES  
 BRIDGES 4-9  
 LA 8  
 VERNON PARISH

## INDEX TO SHEETS

| SHEET NO. | DESCRIPTION   |
|-----------|---|
| 1         | TITLE SHEET AND LAYOUT MAP  |
| 2 - 2e    | TYPICAL SECTIONS AND DETAILS  |
| 3 - 3b    | SUMMARY SHEETS  |
| 3c - 3d   | SUMMARY OF ESTIMATED QUANTITIES                                     |
| 4 - 13    | PLAN AND PROFILE SHEETS   |
| 14        | SUMMARY OF DRAINAGE STRUCTURES SHEET                                |
| 15 - 17   | EMBANKMENT WIDENING DETAILS   |
| 18        | DETAILS OF TURNOUTS & INTERSECTION SHEET                            |
| 19 - 24   | SUGGESTED SEQUENCE OF CONSTRUCTION AND MINIMUM CONSTRUCTION SIGNING |
| 25 - 32   | DETAILS OF DIVERSION SHEETS   |
| 33        | SUBGRADE SOIL SURVEY  |
| 33a       | MUCKING DIAGRAMS  |
| 34        | SPECIAL DETAIL; PRECAST REINFORCED CONCRETE BOX CULVERT             |
| 34a       | SPECIAL DETAIL; HW90RCP   |
| 34b       | SPECIAL DETAIL; HW90CMP   |
| 35 - 39d  | SPECIAL DETAILS; TRAFFIC CONTROL SHEETS                             |
| 40 - 51   | RIGHT OF WAY MAPS   |
| 101 - 149 | BRIDGE PLANS  |

| STANDARD PLANS              | REVISION DATE |
|-----------------------------|---------------|
| 201 BM-01                   | 08/22/2007    |
| 202 CC.S.M.7-10.S.90'.1     | 01/05/1978    |
| 203 CC.S.M.6-7.R.45'.1      | 01/05/1978    |
| 204 DW-03                   | 09/21/1982    |
| 205 DW-04                   | 09/16/1982    |
| 206 - 207 EC-01 (2 SHTS.)   | 10/01/2008    |
| 208 FN-01                   | 06/01/1983    |
| 209 - 210 FN-02 (2 SHTS.)   | 02/10/1978    |
| 211 - 220 GR-200 (10 SHTS.) | 01/26/2009    |
| 221 HS-03                   | 01/03/2005    |
| 222 PM-01                   | 11/01/2010    |
| 223 PM-05                   | 11/01/2010    |
| 224 RM-01                   | 06/03/2009    |
| 225 SWBS-100                | 12/04/2000    |
| 226 WP-01                   | 06/03/2009    |

CROSS SECTIONS 401 - 478  
TOTAL SHEETS: 220

TRAFFIC DATA  
2012 A.D.T. = 600  
2032 A.D.T. = 750  
D = 55%  
K = 10%  
T = 15%

DESIGN SPEED = 60 M.P.H.  
ROADWAY CLASS: RC-2

| DATE | REVISION | DATE | RECOMMENDED | DATE | APPROVED |
|------|----------|------|-------------|------|----------|
|      |          |      |             |      |          |
|      |          |      |             |      |          |
|      |          |      |             |      |          |

SCHEDULE OF REVISIONS

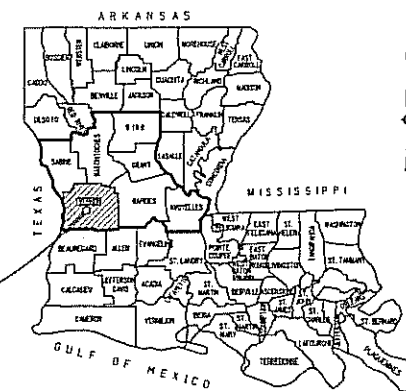
## TYPE OF CONSTRUCTION :

CLEARING AND GRUBBING, GRADING, BASE COURSE, SUPERPAVE  
ASPHALTIC CONCRETE ROADWAY, CONCRETE SLAB SPAN  
BRIDGES, DRAINAGE STRUCTURES, AND EARTHWORK

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PLANS OF PROPOSED  
**STATE HIGHWAY**  
F.A.P. NO. 5801(506)  
STATE PROJECT NO. 134-02-0021 / H.005078  
**LA 8 BRIDGES NEAR SIMPSON**  
VERNON PARISH

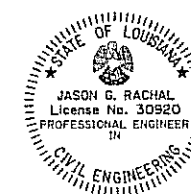
S.P. NO. 134-02-0021



## VICINITY MAP

## LOCATION OF WORK

| CONTROL SECTION | BEGIN | END   |
|-----------------|-------|-------|
| 134-02          | 1.227 | 1.473 |
| 134-02          | 2.001 | 2.187 |
| 134-02          | 3.961 | 4.169 |
| 134-02          | 6.095 | 7.239 |



BRIDGE SITE: 80.00'  
STA. 305+17.00 -  
STA. 305+97.00  
4 @ 20.00' SLAB SPANS

END SITE 3  
C.S. LOG MILE 4.169  
STA. 311+00.00

LA 8

BRIDGE SITE: 100.00'  
STA. 433+35.00 -  
STA. 434+35.00  
5 @ 20.00' SLAB SPANS

BRIDGE SITE: 38.00'  
STA. 454+88.64 -  
STA. 455+40.97  
5 - 7' X 4' X 126' RCB  
(45° SKEW)

END SITE 4  
C.S. LOG MILE 7.239  
STA. 462+42.44  
END. S.P. 134-02-0021  
END. F.A.P. 5801(506)

BEGIN SITE 3  
C.S. LOG MILE 3.956  
STA. 299+75.00

END SITE 2  
C.S. LOG MILE 2.187  
STA. 212+00.00

BRIDGE SITE: 25.33'  
STA. 207+07.33 -  
STA. 207+32.66  
3 - 8' X 8' X 86' RCB

BEGIN SITE 2  
C.S. LOG MILE 2.001  
STA. 202+40.00

ROADWAY EXCEPTIONS:  
STA. 101+00.00 TO 101+80.00 = 80.00'  
STA. 112+00.00 TO 114+00.00 = 200.00'  
STA. 202+40.00 TO 206+00.00 = 360.00'  
STA. 209+00.00 TO 212+00.00 = 300.00'  
STA. 299+75.00 TO 300+20.00 = 45.00'  
STA. 309+00.00 TO 311+00.00 = 200.00'  
STA. 402+00.00 TO 404+00.00 = 200.00'  
STA. 460+00.00 TO 462+42.44 = 242.44'

BEGIN SITE 1  
C.S. LOG MILE 1.227  
STA. 101+00.00  
BEG. S.P. 134-02-0021  
BEG. F.A.P. 5801(506)

BRIDGE SITE: 120.00'  
STA. 106+97.00 -  
STA. 108+17.00  
6 @ 20.00' SLAB SPANS

END SITE 1  
C.S. LOG MILE 1.473  
STA. 114+00.00

BEGIN SITE 4  
C.S. LOG MILE 6.095  
STA. 402+00.00

BRIDGE SITE: 100.00'  
STA. 425+60.00 -  
STA. 426+60.00  
5 @ 20.00' SLAB SPANS

BRIDGE SITE: 180.00'  
STA. 419+76.00 -  
STA. 421+56.00  
9 @ 20.00' SLAB SPANS

BRIDGE SITE: 280.00'  
STA. 413+43.00 -  
STA. 416+23.00  
14 @ 20.00' SLAB SPANS

BRIDGE SITE: 240.00'  
STA. 407+48.00 -  
STA. 409+88.00  
12 @ 20.00' SLAB SPANS

APPROVED

D.O.T.D. CHIEF ENGINEER

DATE

APPROVED

FEDERAL HIGHWAY ADMINISTRATION

DATE

## LAYOUT MAP

SCALE: 1 INCH = 1 MILE



DATUM USED : HORIZONTAL: NAD83 VERTICAL: NAVD88  
MAG. VAR. :  
BEARINGS ARE LA STATE PLANE COORDINATES - NORTH ZONE  
TRANSIT BOOKS : ELECTRONIC FIELD BOOK

LEVEL BOOKS : 192-097

SCALES  
PLAN : 1" = 50'

PROFILE : HOR. 1" = 50'  
VERT. 1" = 5'

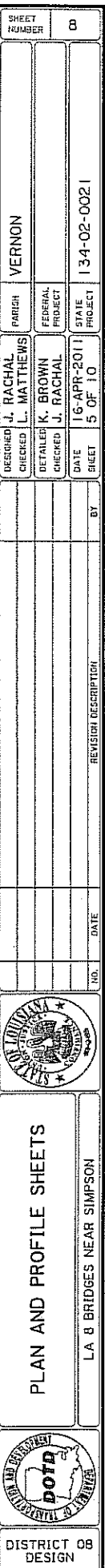
NOTE:  
THE 2006 EDITION OF THE LOUISIANA DOTD  
STANDARD SPECIFICATIONS FOR ROADS AND  
BRIDGES, AS AMENDED BY THE PROJECT  
SPECIFICATIONS, SHALL GOVERN ON THIS PROJECT.

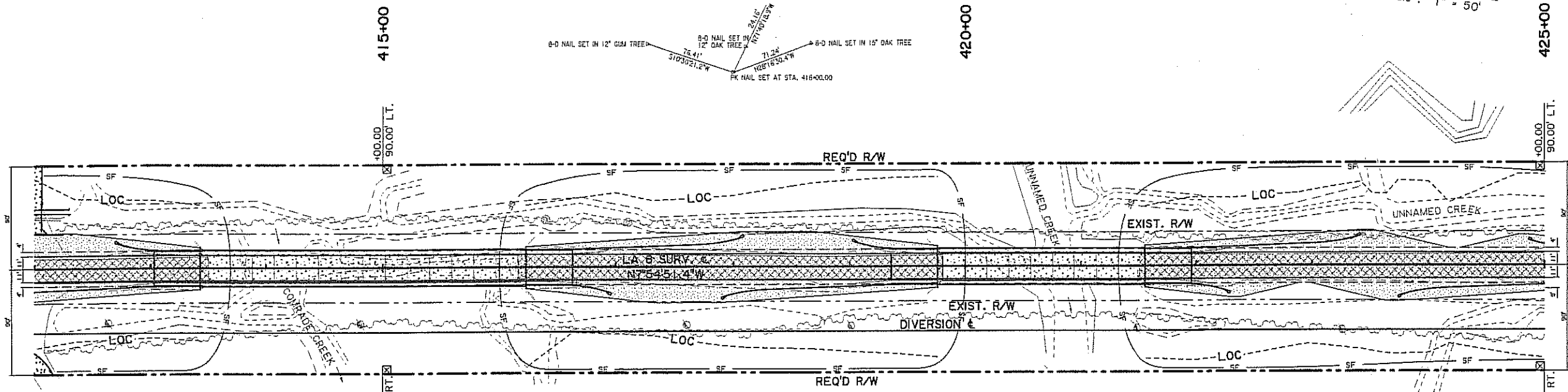
## LENGTH OF PROJECT

| DESCRIPTION             | ALGEBRAIC<br>SUM OF ALL<br>EQUATIONS | GROSS<br>LENGTH | EXCEPTION | BRIDGE<br>LENGTH | ROADWAY<br>LENGTH |
|-------------------------|--------------------------------------|-----------------|-----------|------------------|-------------------|
| STATION TO STATION      | FEET                                 | FEET            | FEET      | FEET             | MILES             |
| 101+00.00 - 114+00.00   |                                      | 1300.00         | 280.00    | 120.00           | 0.023             |
| 202+40.00 - 212+00.00   |                                      | 960.00          | 660.00    |                  | 300.00            |
| 299+75.00 - 311+00.00   |                                      | 1125.00         | 245.00    | 80.00            | 0.015             |
| 402+00.00 - 462+42.44   |                                      | 6042.44         | 442.44    | 900.00           | 0.170             |
| TOTAL LENGTH OF BRIDGES |                                      |                 |           | 1100.00          | 0.208             |
| TOTAL LENGTH OF ROADWAY |                                      |                 |           |                  | 6700.00           |
| TOTAL MILES             |                                      |                 |           |                  | 1.477             |

TITLE SHEET AND LAYOUT MAP

DISTRICT 08  
DESIGN





REQ'D BRIDGE  
STRUCTURE  
REQ'D ASPHALT  
PAVEMENT  
REMOVAL OF BASE  
AND SURFACING  
SILT FENCING

STATION 413+50.27  
STR. NO. 08581340206321  
REMOVE EXIST. 23' X 266'  
TIMBER TRESTLE BRIDGE

SALVAGE NOTE:

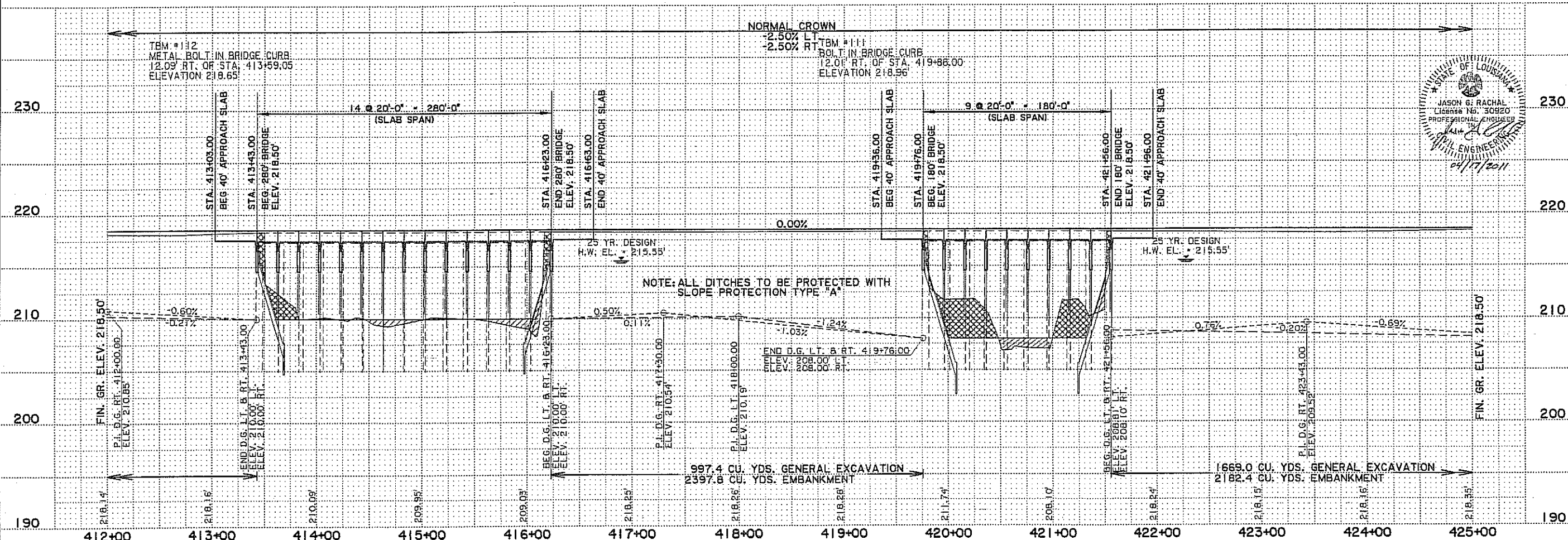
EXISTING BRIDGE RAIL AND GUARDRAIL, AND ALL  
ASSOCIATED HARDWARE IS TO BE DISASSEMBLED, SORTED  
BY TYPE AND LENGTH, DELIVERED TO, AND NEATLY  
STACKED AT THE VERNON MAINTENANCE UNIT.

DOTD RESERVES THE RIGHT TO REFUSE MATERIAL IF NOT IN  
USEABLE CONDITION. SALVAGE MATERIALS TO BE REJECTED  
AT PROJECT SITE.

STATION 419+80.09  
STR. NO. 08581340206441  
REMOVE EXIST. 23' X 275'  
TIMBER TRESTLE BRIDGE

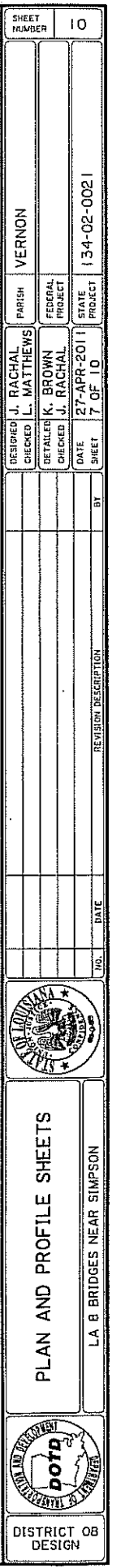
FOR DETAILS OF EMBANKMENT  
WIDENING, SEE SHEET NO. 16

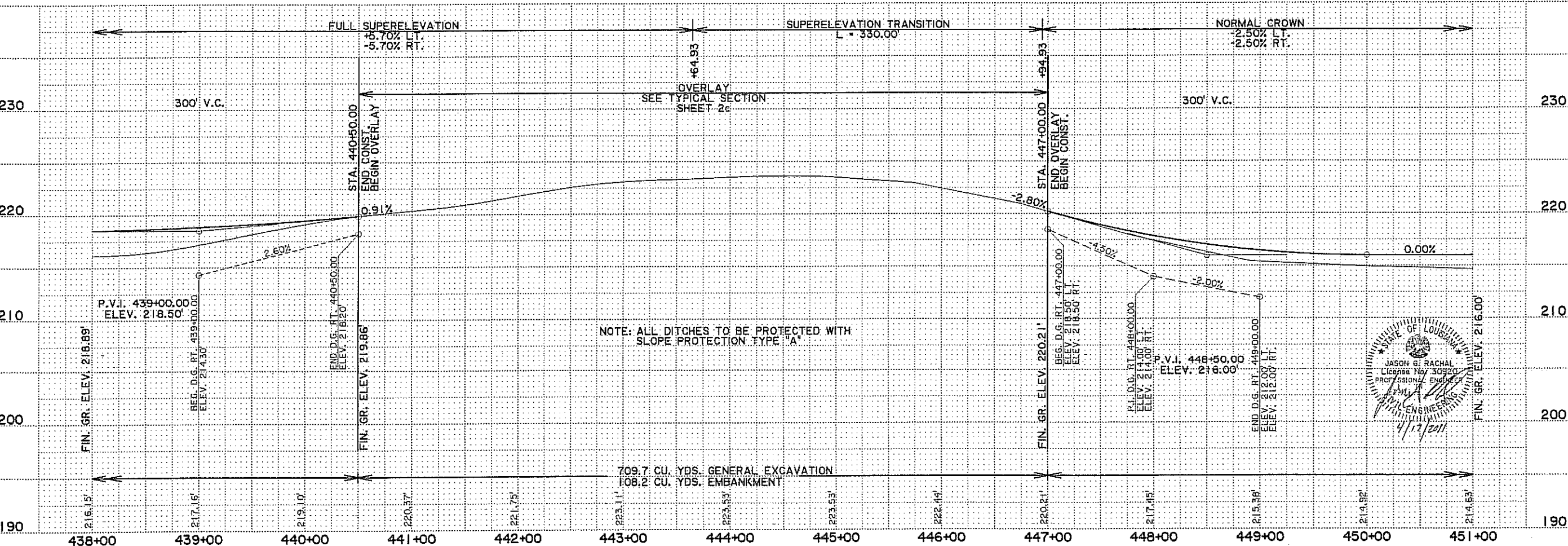
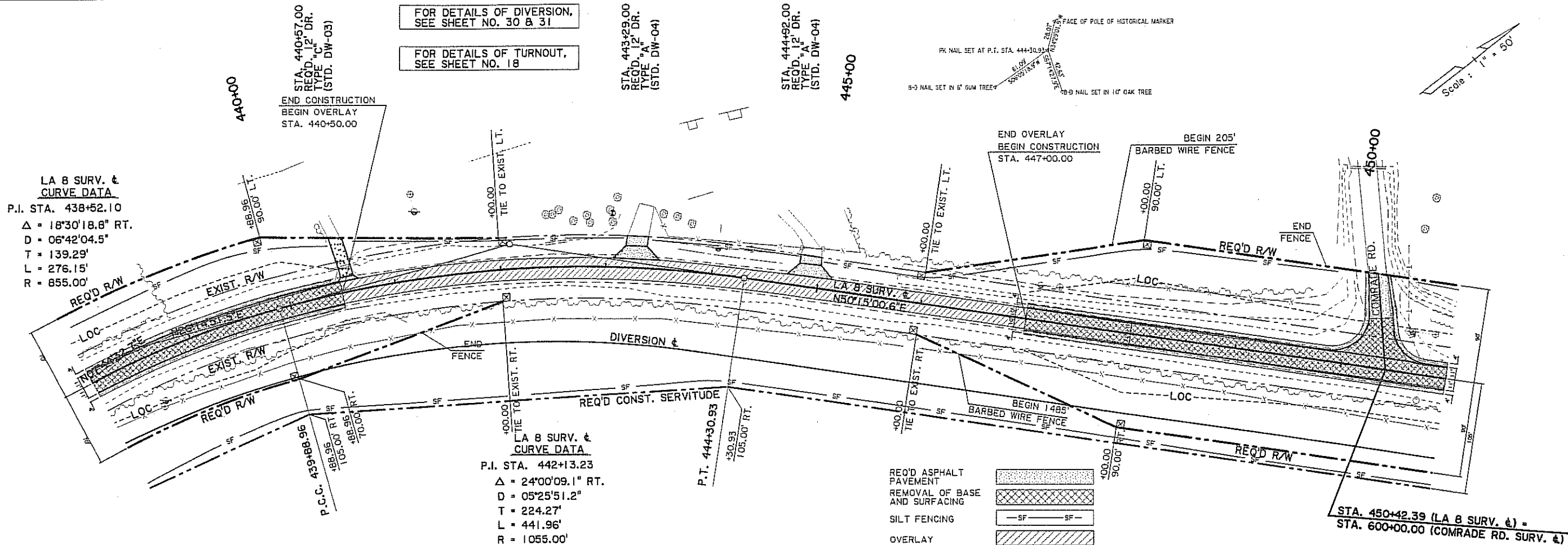
FOR DETAILS OF DIVERSION,  
SEE SHEET NO. 29



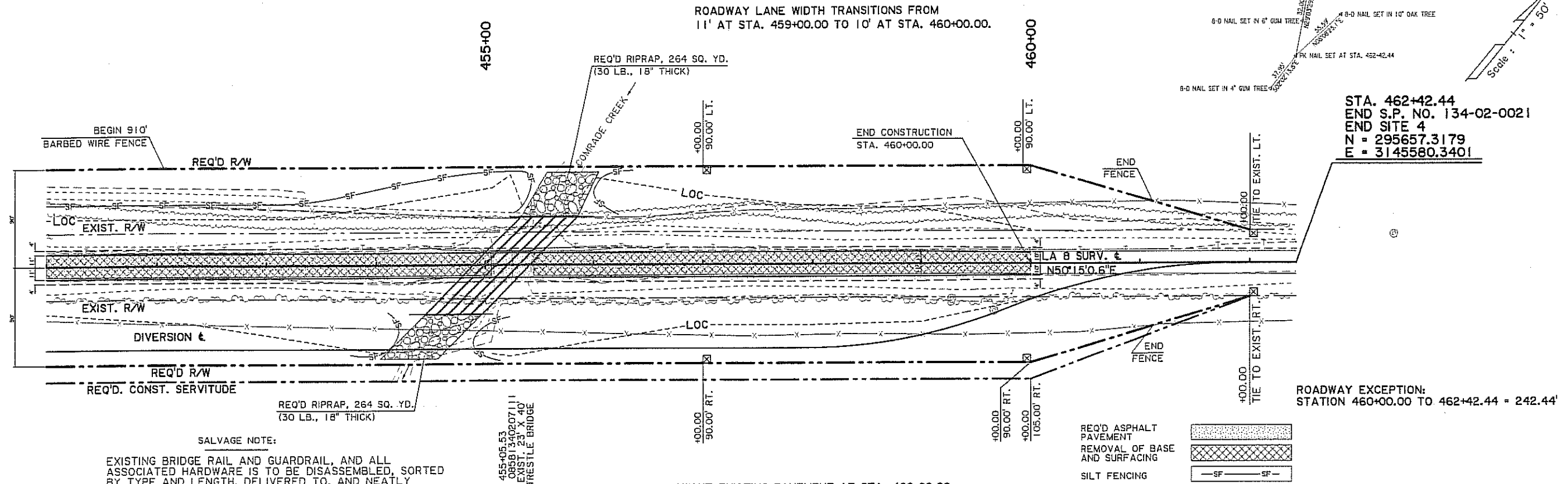
|                           |             |
|---------------------------|-------------|
| SHEET NUMBER              | 9           |
| DESIGNED                  | J. RACHAL   |
| CHECKED                   | L. MATTHEWS |
| DATE                      | 16-APR-2011 |
| SHEET                     | 6 OF 10     |
| PROJECT                   | 134-02-0021 |
| PARISH                    | VERNON      |
| FEDERAL PROJECT           |             |
| STATE PROJECT             |             |
| BY                        |             |
| DATE                      |             |
| REVISION DESCRIPTION      |             |
| PLAN AND PROFILE SHEETS   |             |
| LA 8 BRIDGES NEAR SIMPSON |             |
| DISTRICT 08<br>DESIGN     |             |







|                           |                  |
|---------------------------|------------------|
| SHEET NUMBER 11           |                  |
| DESIGNED J. RACHAL        | PARISH VERNON    |
| CHECKED L. MATTHEWS       | FEDERAL PROJECT  |
| DETAILS K. BROWN          | STATE PROJECT    |
| CHECKED J. RACHAL         | DATE 17-APR-2011 |
| SHEET 11 OF 10            |                  |
| PROJECT 134-02-0021       |                  |
| REVISION DESCRIPTION      |                  |
| DATE                      |                  |
| BY                        |                  |
| NO.                       |                  |
| PLAN AND PROFILE SHEETS   |                  |
| LA 8 BRIDGES NEAR SIMPSON |                  |
| DISTRICT 08 DESIGN        |                  |



**SALVAGE NOTE:**  
EXISTING BRIDGE RAIL AND GUARDRAIL, AND ALL ASSOCIATED HARDWARE IS TO BE DISASSEMBLED, SORTED BY TYPE AND LENGTH, DELIVERED TO, AND NEATLY STACKED AT THE VERNON MAINTENANCE UNIT.  
DOTD RESERVES THE RIGHT TO REFUSE MATERIAL IF NOT IN USEABLE CONDITION. SALVAGE MATERIALS TO BE REJECTED AT PROJECT SITE.

STATION 455+05.53  
STR. NO. 08581340207111  
REMOVE EXIST. 23' X 40' TIMBER TRESTLE BRIDGE

SAWCUT EXISTING PAVEMENT AT STA. 460+00.00  
20 LINEAR FEET; 8" AVERAGE DEPTH.

FOR DETAILS OF DIVERSION,  
SEE SHEET NO. 29 & 30

ROADWAY EXCEPTION:  
STATION 460+00.00 TO 462+42.44 = 242.44'

| HYDROLOGIC SUMMARY TABLE |                           |                       |                             |                        |                           |                           |                                     |                         |                       |
|--------------------------|---------------------------|-----------------------|-----------------------------|------------------------|---------------------------|---------------------------|-------------------------------------|-------------------------|-----------------------|
| STATION                  | STRUCTURE (SIZE & TYPE)   | DRAINAGE AREA (ACRES) | AVERAGE WATERSHED SLOPE (%) | DESIGN DISCHARGE (CFS) | TAILWATER ELEV. (FT. MSL) | HEADWATER ELEV. (FT. MSL) | ALLOWABLE HEADWATER ELEV. (FT. MSL) | DIFFERENTIAL HEAD (FT.) | OUTLET VELOCITY (FPS) |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |
| 455+15.00                | 57'X4' RCB WITH HEADWALLS | 871                   | 0.45                        | 520                    | 212.6                     | 213.1                     | 214.7                               | 0.5                     | 4.2                   |

STA. 455+15.00  
REQ'D 5'X4'X126' RCB WITH HEADWALLS (45' SKEW)  
(SEE SPECIAL DETAIL, SHEET NO. 34)

TBM #115  
BOLT IN BRIDGE CURB  
12.38' RT. OF STA. 455+16.03  
ELEVATION 215.20'

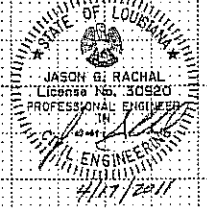
P.V.I. 455+50.00  
ELEV. 216.00'

NORMAL CROWN  
-2.50% LT.  
-2.50% RT.

300' V.C.

STA. 460+00.00  
END CONST.

NOTE: ALL DITCHES TO BE PROTECTED WITH SLOPE PROTECTION TYPE "A"



FIN. GR. ELEV. 214.63'

BEG. D.G. RT. 451+05.00  
ELEV. 211.13'

END D.G. RT. 454+30.00  
ELEV. 209.00'

BEG. D.G. RT. 455+09.00  
ELEV. 209.00'

F.L. LT. 209.20'

F.L. RT. 209.00'

BEG. D.G. LT. 455+09.00  
ELEV. 209.20'

END D.G. LT. 460+00.00  
ELEV. 209.92'

FIN. GR. ELEV. 214.36'

EXISTING PILES ARE TO BE REMOVED 1'0" BELOW THE BEDDING MATERIAL.

1710.9 CU. YDS. GENERAL EXCAVATION  
5561.9 CU. YDS. EMBANKMENT

P.V.I. 458+50.00  
ELEV. 214.12'

451+00

452+00

453+00

454+00

455+00

456+00

457+00

458+00

459+00

460+00

461+00

462+00