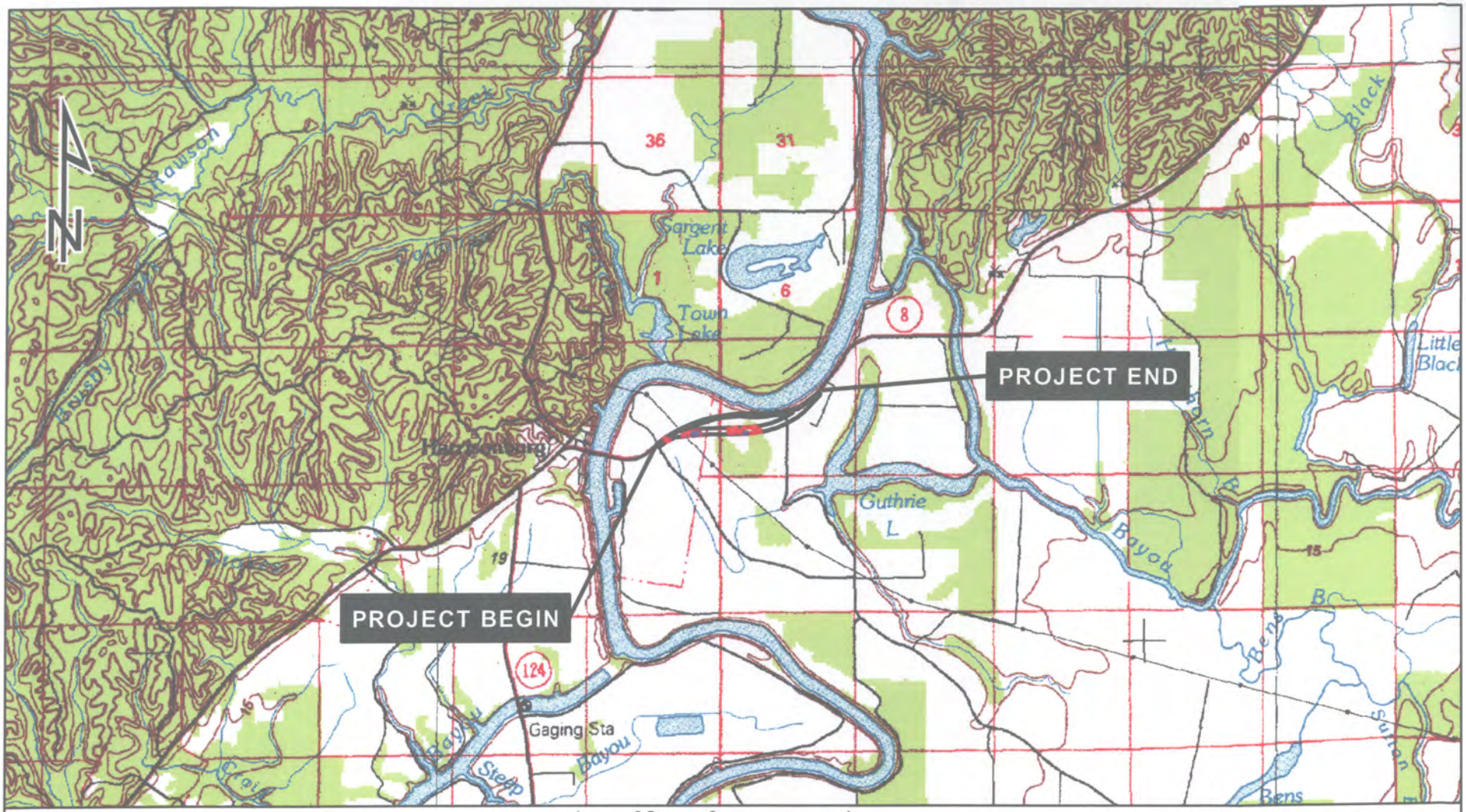


PROJECT LOCATION

SOURCE: USGS 1:100,000 TOPOGRAPHIC MAP - NATCHEZ QUADRANGLE

STATE PROJECT NO. H.001129
FEDERAL AID NO. H001129
LA 8 REALIGNMENT AT OUACHITA RIVER
ROUTE LA 8
CATAHOULA PARISH

LOUISIANA'S ON THE MOVE...
DOTD
BUILDS THE WAY

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PLANS OF PROPOSED

STATE HIGHWAY

F.A.P. NO. H001129

STATE PROJECT NO. H.001129

LA 8 REALIGNMENT AT OUACHITA RIVER

CATAHOULA PARISH

LA 8

INDEX TO SHEETS

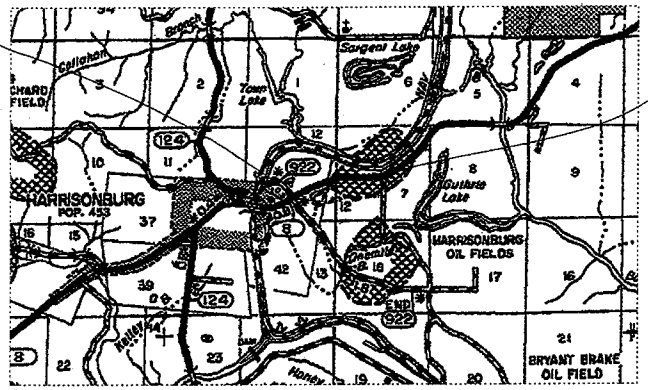
SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
2 -2a	TYPICAL SECTIONS AND DETAILS
3 -3a	SUMMARY SHEETS
4 - 9	PLAN AND PROFILE SHEETS
10-11	EXISTING AND DESIGN DRAINAGE MAPS
12-14	GEOMETRIC LAYOUT & REFERENCE TIES
15	GEOMETRIC DETAILS
16-21	SUGGESTED SEQUENCE OF CONSTRUCTION
22-24	SUGGESTED TEMPORARY EROSION CONTROL
25-28	TEMPORARY TRAFFIC CONTROL DETAILS (TC -00 (A-D) (NOT INLCLUDED IN PLANS)
29	TEMPORARY TRAFFIC CONTROL DETAILS (TC -04) (NOT INLCLUDED IN PLANS)
30-45	RIGHT OF WAY MAPS (NOT INCLUDED IN PLANS)
401 - 416	CROSS SECTION SHEETS

STANDARD PLANS

SHEET NO.	STANDARD PLAN	REVISION DATE
201 - 202	BM-01 (2 SHEETS)	08-22-07
203	DW-02	04-16-12
204 - 205	EC-01 (2 SHEETS)	10-01-08
206 - 207	MB-01 (2 SHEETS)	02-18-09
208	PM-01	11-01-10
209	RM-01	06-03-09
210	WP-01	06-03-09

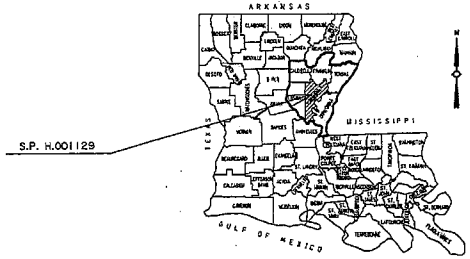
C.S. LOG MILE 1.318
STA. 100+96
BEGIN S.P. H.001129
BEGIN F.A.P. NO. H001129

C.S. LOG MILE 2.606
STA. 169+00
END S.P. H.001129
END F.A.P. NO. H001129



LAYOUT MAP

SCALE: 1 INCH = 5280 FEET



VICINITY MAP

LOCATION OF WORK

CONTROL SECTION	LOG MILE	
	BEGIN	END
039-04	1.318	2.606

$$------ 95% FINAL PLANS ------$$

PRELIMINARY	Louisiana Department of Transportation and Development
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	ENGINEER: PATRICK B. TONEY LICENSE #: 29444 DATE: DECEMBER 2010

APPROVED

O.D.T.D, CHIEF ENGINEER

DATE

APPROVED

FEDERAL HIGHWAY ADMINISTRATION

DATE

TRAFFIC OATA
2012 A.D.T. = 2600
2032 A.D.T. = 3400
D =55
K =10
T =13

DESIGN SPEED = 60 M.P.H.
DESIGN CLASS = RC-3

DATE	REVISION	DATE RECOMMENCED	DATE APPROVED

SCHEDULE OF REVISIONS

TYPE OF CONSTRUCTION :
REALIGNMENT OF LA 8, DRAINAGE STRUCTURES, GRADING, EARTHWORK, ASPHALTIC CONCRETE, CLASS II BASE COURSE

DATUM USED : NAVD 88
MAG. VAR. :
BEARINGS ARE
TRANSIT BOOKS :

LEVEL BOOKS : 196-583

SCALES
PLAN : 1"=50'
PROFILE : HOR. 1"=50'
VERT. 1"=10'

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

LENGTH OF PROJECT

DESCRIPTION	ALGEBRAIC SUM OF ALL EQUATIONS	GROSS LENGTH	EXCEPTION	BRIDGE LENGTH		ROADWAY LENGTH	
STATION TO STATION	FEET	FEET	FEET	FEET	MILES	FEET	MILES
100+96 - 169+00		6804				6804	1.289
TOTAL LENGTH OF BRIDGES							
TOTAL LENGTH OF ROADWAY						6804	1.289
TOTAL MILES				1.289			

SHEET NUMBER	1
PARISH	CATAHOULA
FEDERAL PROJECT	H001129
STATE PROJECT	H.001129
DESIGNED	B. VALMORIA
DRAWN	B. VALMORIA
CHECKED	J. BROWN
DETAILED	B. VALMORIA
CHECKED	J. BROWN
DATE SHEET	OCTOBER 2009
NO.	DATE	BY	REVISION DESCRIPTION

TITLE SHEET & LAYOUT MAP

LA 8 REALIGNMENT AT OUACHITA RIVER

ROAD DESIGN

R:\Gang022\Projects\LA 8 & LA 124\039-04-0061 (La 8)\700-13-0113 Survey Folder\Design Work File\LA 8 Title Sht.dgn
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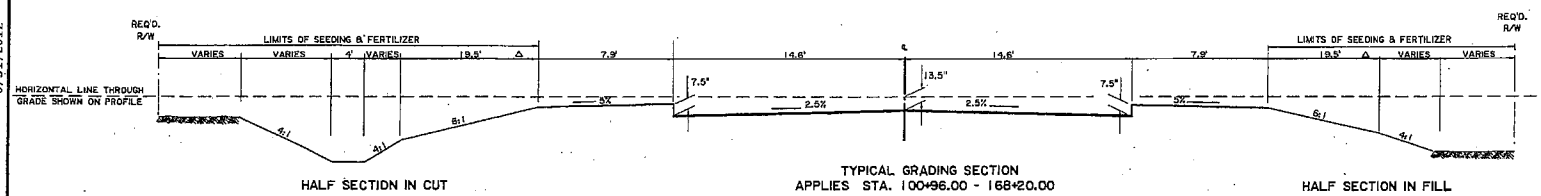
95% FINAL PLANS

R:\Gang022\Projects\LA 6 LA 124\039-04-0061 (La 8)\700-13-0113 Survey Folder\Design Work File\LA 6 TYPICAL SEC.dgn 5/31/2012 10:3

DRAWING NOT TO SCALE



HALF SECTION IN CUT

TYPICAL GRADING SECTION
APPLIES STA. 100+96.00 - 168+20.00

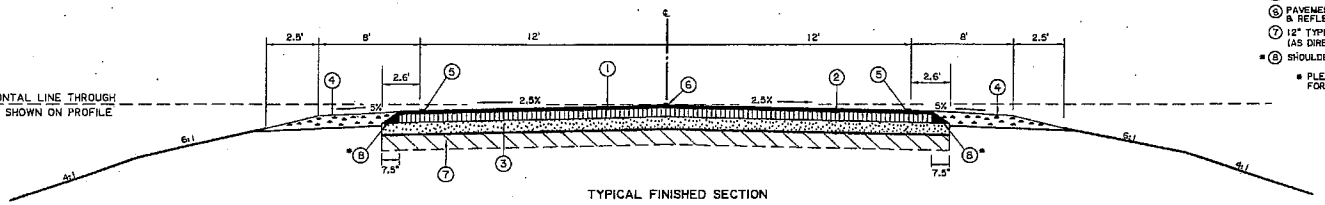
HALF SECTION IN FILL

Δ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS.

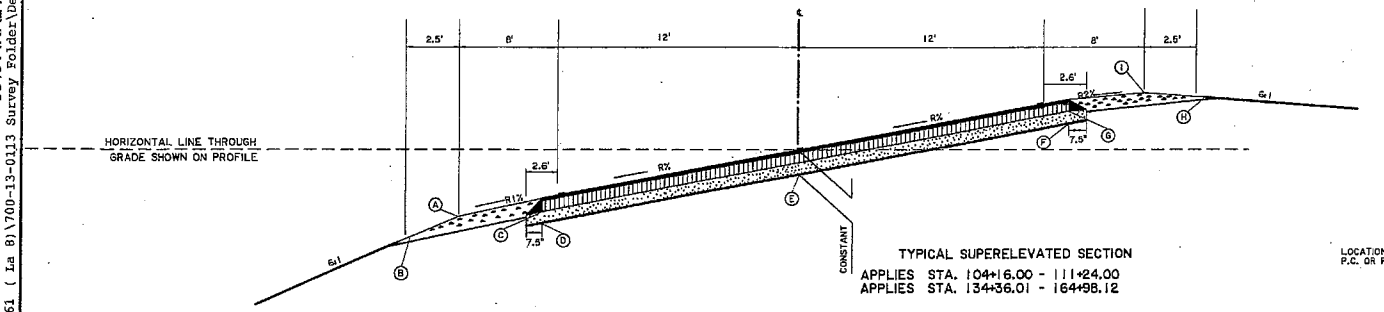
LEGEND:

1. 2.0" SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE (LEVEL 1)
2. 3.0" SUPERPAVE ASPHALTIC CONCRETE BINDER COURSE (LEVEL 1)
3. 8.5" CLASS II BASE COURSE (SOIL CEMENT)
4. 6.0" AGGREGATE SURFACE COURSE
5. PAVEMENT STRIPING
6. PAVEMENT STRIPING, CENTER LINE RUMBLE STRIP, & REFLECTORIZED MARKERS
7. 12" TYPE E LIME TREATMENT 9% BY VOLUME (AS DIRECTED BY PROJECT ENGINEER)
- * (B) SHOULDER WEDGE

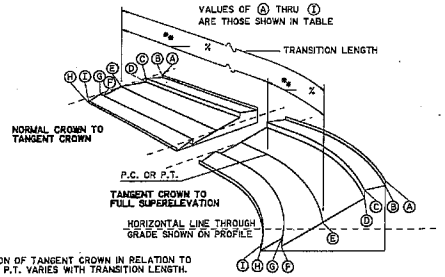
* PLEASE REFER TO SHEET 2A FOR SHOULDER WEDGE DETAIL.



TYPICAL FINISHED SECTION
APPLIES STA. 100+96.00 - 168+20.00



TYPICAL SUPERELEVATED SECTION
APPLIES STA. 104+16.00 - 111+24.00
APPLIES STA. 134+36.01 - 164+98.12



LOCATION OF TANGENT CROWN IN RELATION TO P.C. OR P.T. VARIES WITH TRANSITION LENGTH.

SUPERELEVATION TO BE ATTAINED BY ROTATING THE OUTSIDE LANE ABOUT THE CENTERLINE (E) UNTIL THE ROADWAY CROSS SLOPE EQUALS 2.5% (TANGENT CROWN). THE ENTIRE ROADWAY WILL THEN ROTATE ABOUT THE CENTER LINE UNTIL A MAXIMUM CROSS SLOPE OF "R" IS OBTAINED. (SEE TABLE)

** FOR LOCATION OF TRANSITION LENGTH ALONG THE ALIGNMENT, REFER TO PLAN PROFILE SHEETS.

DETAIL OF SUPERELEVATION

RC-3

SUPERELEVATION DETAILS (IN FEET) WITH REFERENCE TO HORIZONTAL LINE THROUGH GRADE SHOWN ON PROFILE

RADIUS (ft)	R (%)	R1 (%)	R2 (%)	A (ft)	B (ft)	C (ft)	D (ft)	E (ft)	F (ft)	G (ft)	H (ft)	I (ft)	TRANSITION LENGTH (ft)
N.C.	2.5	5	-5	-0.57	-1.29	-0.77	-1.48	-1.13	-1.48	-0.77	-1.29	-0.57	
1425	-9.4	-2.4	-9.4	1.54	0.65	0.90	0.19	-1.13	-2.44	-1.73	-2.72	-1.80	320
3456	4.8	5	2.2	-0.89	-1.61	-1.09	-1.80	-1.13	-0.45	0.26	0.49	0.89	200

NEGATIVE RATES DENOTE DOWN FROM LEFT TO RIGHT

FLEXIBLE STRUCTURE DESIGN	
CURRENT A.D.T. (2012)	= 2600
DESIGN A.D.T. (2032)	= 3400
18- Kip ESALs OVER 20 YEARS	= 904,836
PERFORMANCE PERIOD (YEARS)	= 20
ROADBED SOIL RESILIENT MODULUS(psi)	= 7,500 psi
STRUCTURAL NUMBER REQUIRED (inches)	= 3.22
STRUCTURAL NUMBER PROVIDED (inches per layer)	
1 - Wearing Course, Superpave Asphaltic Concrete Level 1	= 0.88
2 - Binder Course, Superpave Asphaltic Concrete Level 1	= 1.32
3 - Class II Base Course	= 1.07
STRUCTURAL NUMBER PROVIDED (Total inches)	3.27

------ 95% FINAL PLANS------

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

Louisiana Department of Transportation and Development

ENGINEER: PATRICK B. TONEY
LICENSE #: 29644
DATE: Sept 2010

SHEET NUMBER 2
CATAHOULA PARISH
H.001129
H.001129
PARISH
FEDERAL PROJECT
STATE PROJECT
DESIGNED J. BROWN
CHECKED P. TONEY
DETAILED B. VALMORIA
CHECKED J.BROWN
DATE SEPTEMBER 2010
SHEET
BY
NO. DATE REVISION DESCRIPTION

TYPICAL SECTIONS
LA 6 REALIGNMENT AT OUACHITA RIVER
ROAD DESIGN

31-MAY-2012 12:19

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LEGEND - EXISTING TOPOGRAPHY

CONTROL POINT		GAS LINE	
PHOTO TARGET		GAS METER	
PAVEMENT EDGE		GAS SERVICE (NO METER)	
SHOULDER EDGE		GAS REGULATOR	
SLOPE TOE		GAS RISER	
GUARDRAIL TOP		GAS TEST BOX	
HIGH BANK		GAS VALVE	
WATERS EDGE		GAS LINE/CASING	
HIGH WATER MARK		GAS VENT	
BOX CULVERT		RAILROAD MILEPOST	
PIPE CULVERT		RAILROAD SIGNAL	
CATCH BASIN TOP (ROUND)		RAILROAD SWITCH	
DROP INLET TOP (ROUND)		RAILROAD TRACK	
DRAINAGE MANHOLE TOP		RR TRAFFIC SIGNAL BOX	
		SEWER LINE	
LEVEE TOP		SEWER MANHOLE TOP	
		SEWER BLOWOUT VALVE	
DITCH CENTERLINE		SEWER CLEANOUT	
TREE		SEPTIC TANK	
WOODS EDGE		SEWER PUMP (PRIVATE)	
		SEWER TREATMENT (INDIVIDUAL)	
MARSH LINE		FEDERAL AID MARKER	
		TRAFFIC CONTROLLER BOX	
SWAMP LINE		TRAFFIC COUNTER	
		TRAFFIC SIGNAL	
TREE CLUSTER		TRAFFIC SIGNAL SUPPORT POLE	
HEDGE		LIGHT POLE	
BUSH		LIGHT PEDESTAL	
TREE LINE		LIGHT POWER VAULT	
		TRAFFIC SIGN	
FENCE LINE		PARKING METER	
GATE		TELEPHONE POLE	
CATTLE GUARD		TELEPHONE LINE	
PROPERTY CORNER		TELEPHONE BOOTH	
RIGHT OF WAY MONUMENT		TELE CROSS CONNECT BOX	
SECTION CORNER		TELEPHONE PEDESTAL	
FENCE CORNER		TELEPHONE PRESSURE BOX	
TELEVISION CABLE	TV	WATER LINE	W
TELEVISION PEDESTAL	TV	WATER LINE/CASING	W
POWER POLE		WATER CLEANOUT	
DEADMAN		WATER METER	
POWER LINE	P	WATER VALVE	
POWER JUNCTION BOX		WATER VALVE VAULT	
POWER VAULT		WATER WELL	
TRANSFORMER		FIRE HYDRANT	
COMBINATION POLE		BILLBOARD	
POWER DROP		FUEL PUMP	
PIPELINE	O	POST	
PIPELINE VENT		SIGN POST	
PIPELINE REGULATOR		STORAGE TANK (ROUND)	
GAS WELL		GRAVE	
OIL WELL		MAILBOX	
		ORNAMENTAL LIGHT	
		FLAG POLE	

LIMITS OF REMOVAL FOR EXISITNG LA 8

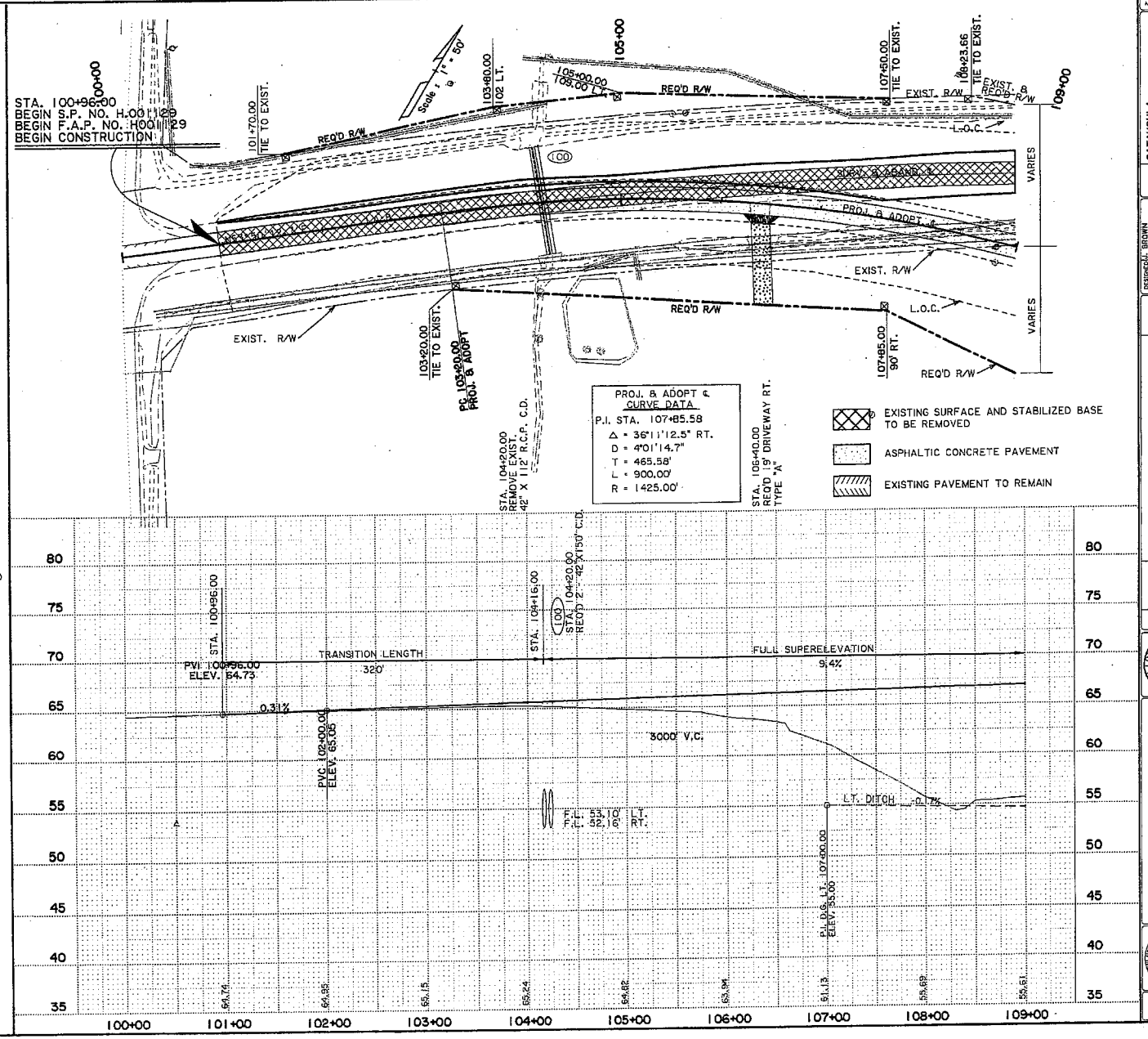
- STA. 103+20 - 109+00 SURVEY AND ABAND. TO BE REMOVED (AREA = 13,535.2 SQ. FT.)
- STA. 109+00 - 130+00 SURVEY AND ABAND. TO REMAIN
- STA. 130+00 - 165+58.12 SURVEY AND ABAND. TO BE REMOVED (AREA = 82,281.5 SQ. FT.)

NOTE:

EXISTING LA 8 PAVEMENT IS TO BE REMOVED AT THE ABOVE REFERENCED STATIONS. GRADE EXISTING LA 8 EMBANKMENT TO MATCH CROSS SECTIONS. OUTSIDE OF CROSS SECTIONS GRADE EXISTING EMBANKMENT TO DRAIN.

$$------ 60% FINAL PLANS------$$

PRELIMINARY	Louisiana Department of Transportation and Development
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	ENGINEER: PATRICK D. TONEY LICENSE #: 29644 DATE: DECEMBER 2010



SHEET NUMBER 4

PARISH: CATAHOULA
FEDERAL PROJECT:
STATE PROJECT: H.001129

DESIGNED: J. BROWN
CHECKED: P. TONEY
DETAILED: C. PHAM
CHECKED: P. TONEY
DATE:
SHEET

NO.	DATE	BY	REVISION DESCRIPTION

PLAN AND PROFILE SHEET

LA 8 REALIGNMENT AT OUACHITA RIVER

ROAD DESIGN

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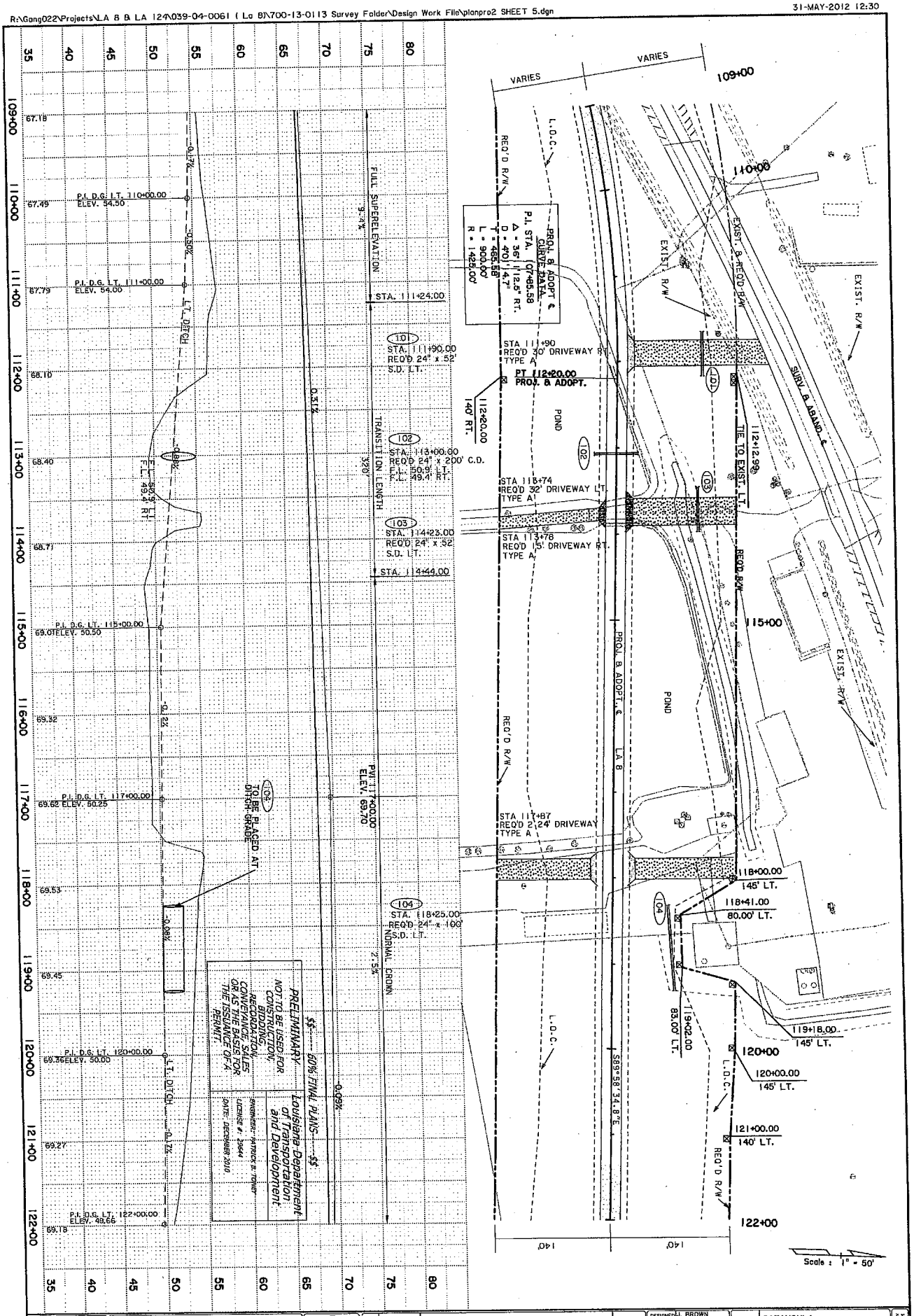
31-MAY-2012 12:30



ROAD DESIGN	PLAN AND PROFILE SHEET		DESIGNED J. BROWN	PARISH	CATAHOULA	SHEET NUMBER
	LA 8 REALIGNMENT AT OUACHITA RIVER		CHECKED P. TONEY			
			DETAILED C. PHAM	FEDERAL PROJECT		
			CHECKED P. TONEY			
			DATE	STATE PROJECT	H.001129	5
			SHEET			
NO.	DATE	REVISION DESCRIPTION	BY			

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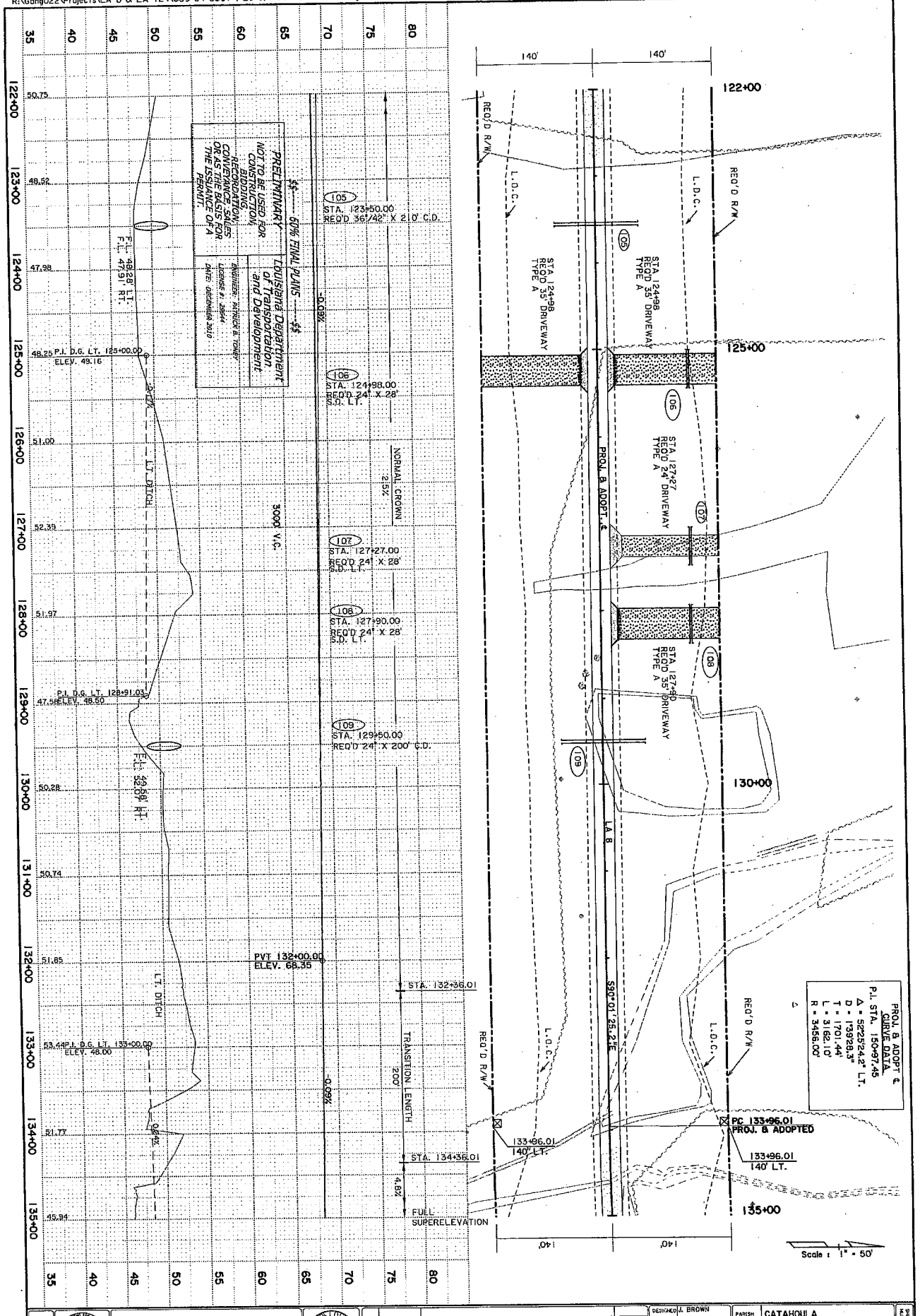

PLAN AND PROFILE SHEET

LA 8 REALIGNMENT AT OUACHITA RIVER

DESIGNED	J. BROWN	PARISH	CATAHOULA
CHECKED	P. TONEY		
DETAILED	C. PHAM	FEDERAL PROJECT	
CHECKED	P. TONEY		
DATE SHEET		STATE PROJECT	H.001129

SHEET NUMBER 6

NO. DATE REVISION DESCRIPTION BY

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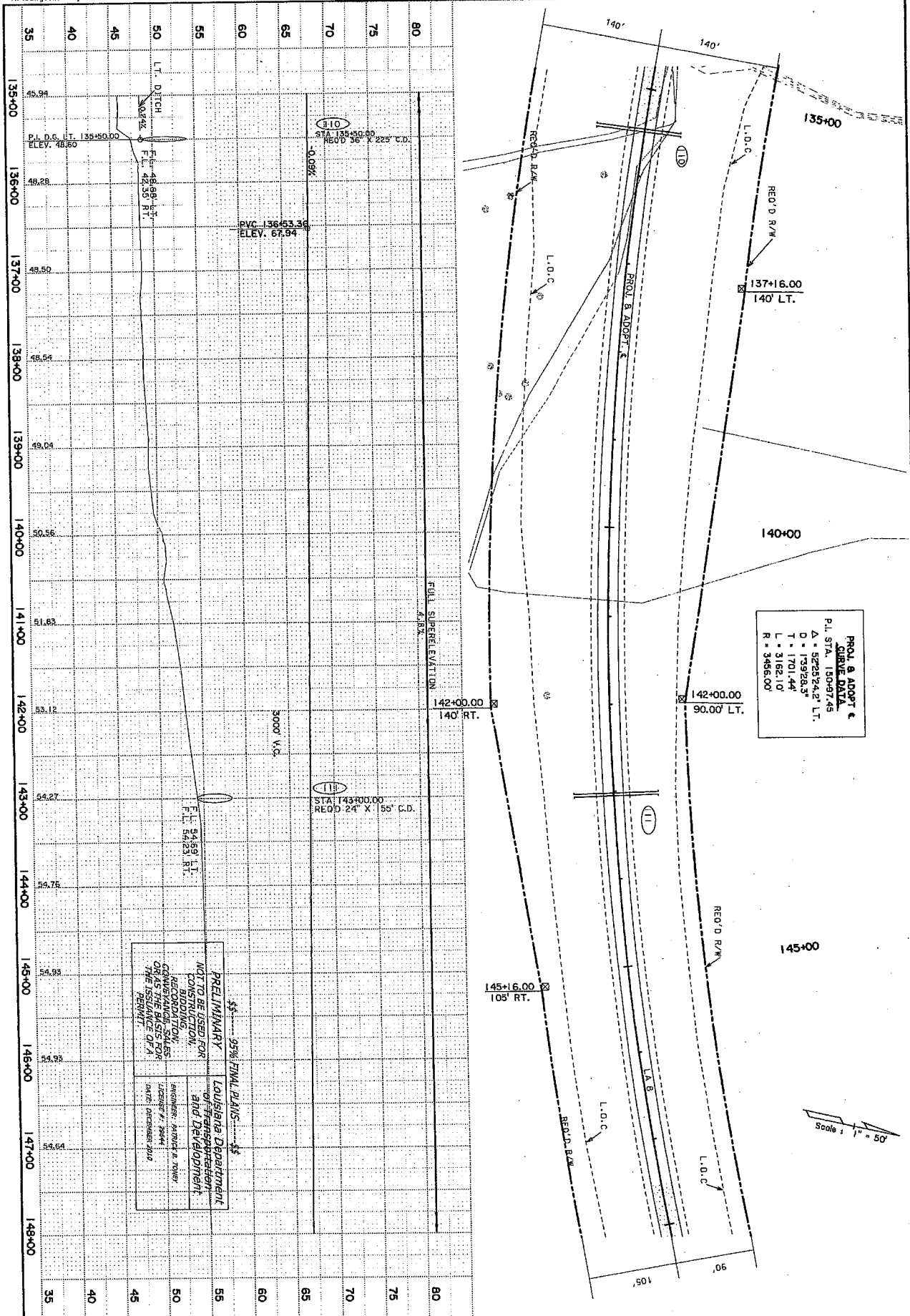

ROAD DESIGN	PLAN AND PROFILE SHEET		DESIGNED J. BROWN	PARISH	CATAHOULA	SHEET NUMBER	7
	LA 8 REALIGNMENT AT OUACHITA RIVER		CHECKED P. TONEY				
			DETAILED C. PHAM	FEDERAL PROJECT			
			CHECKED P. TONEY				
			DATE SHEET	STATE PROJECT	H.001129		
		NO. DATE REVISION DESCRIPTION BY					

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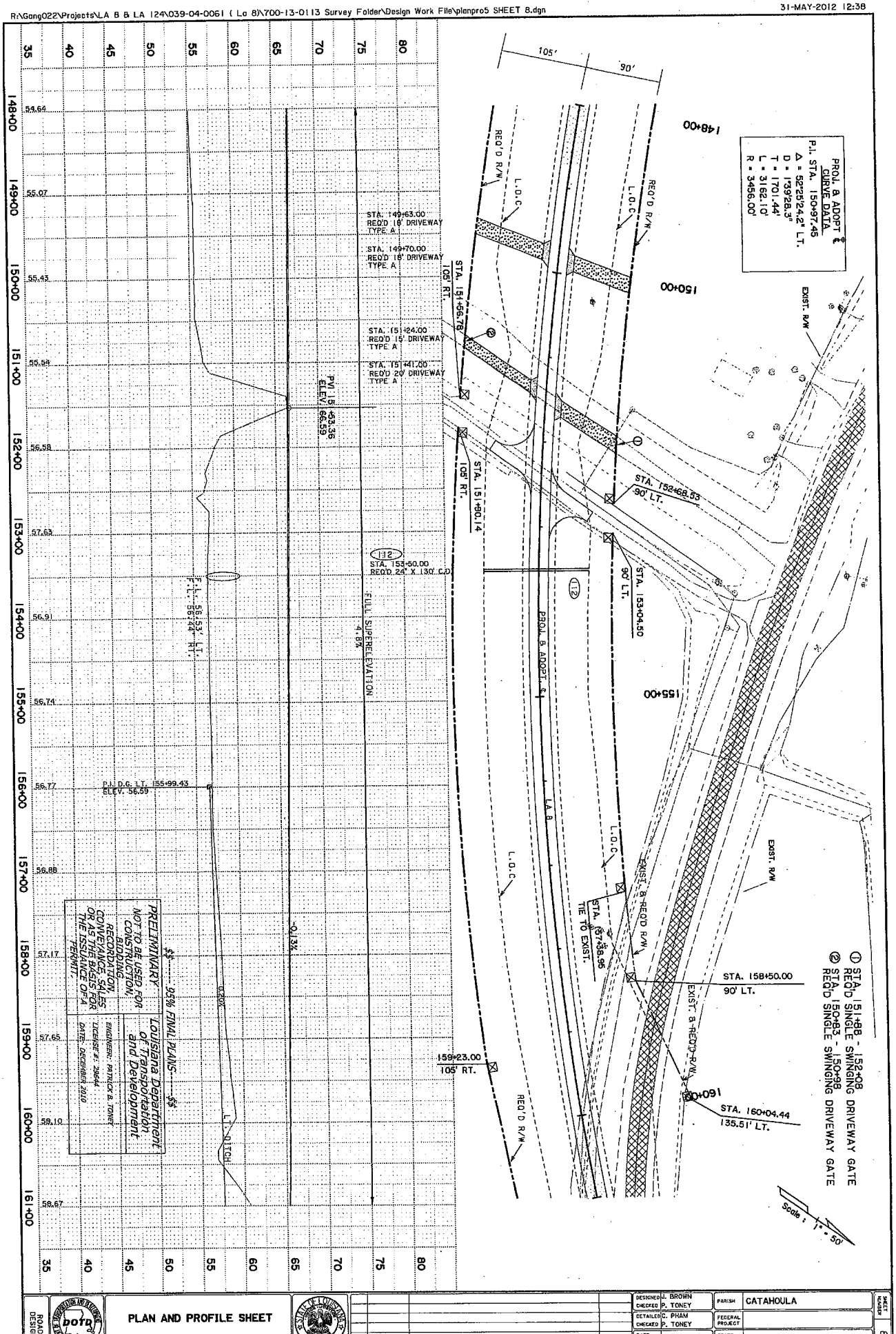

ROAD DESIGN	PLAN AND PROFILE SHEET	DESIGNED J. BROWN CHECKED P. TONEY	PARISH	CATAHOULA	SHEET NUMBER 8
	LA 8 REALIGNMENT AT OUACHITA RIVER	DETAILED C. PHAM CHECKED P. TONEY	FEDERAL PROJECT		
		DATE SHEET	STATE PROJECT	H.001129	

NO. DATE REVISION DESCRIPTION BY

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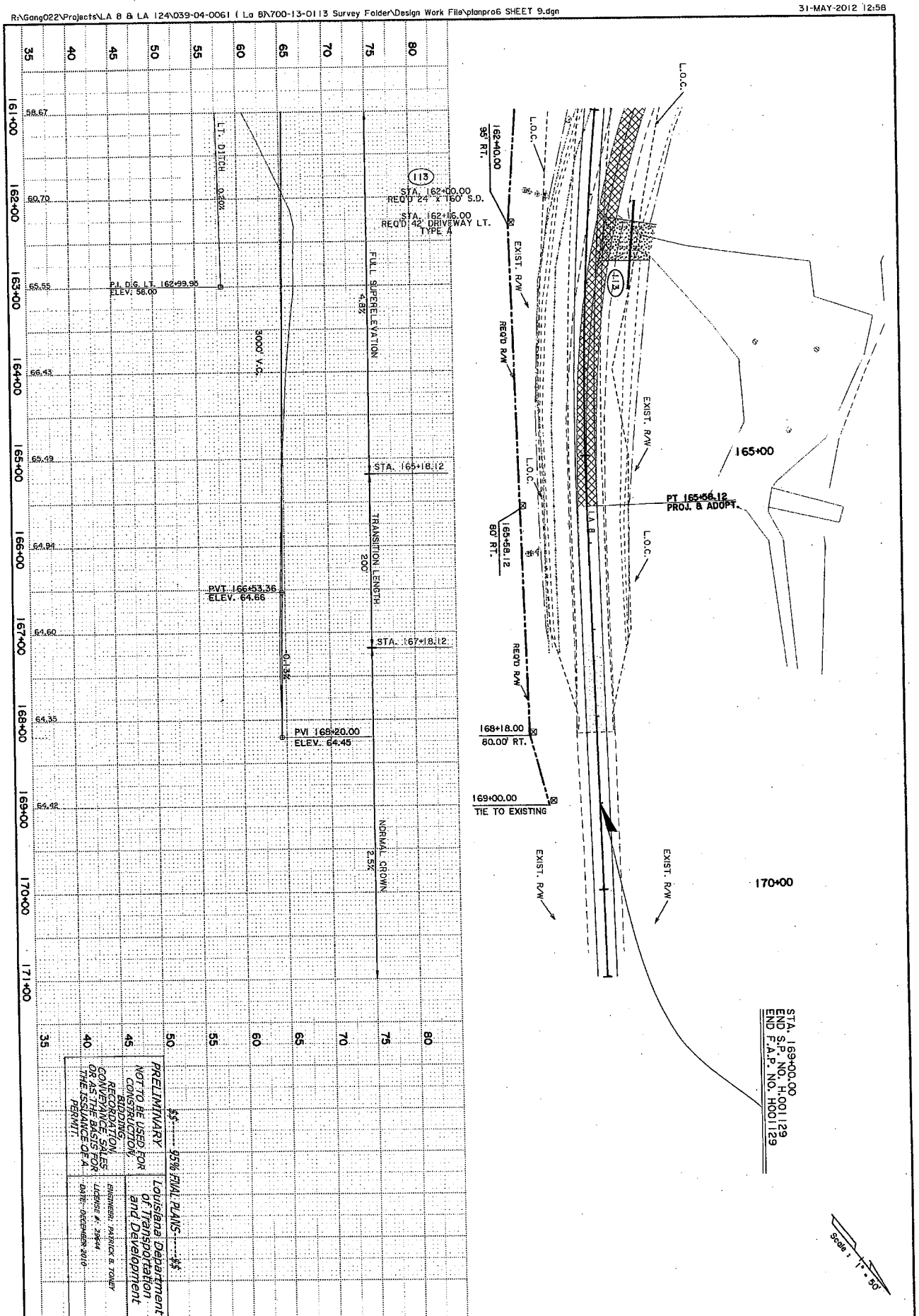
31-MAY-2012 12:58



ROAD DESIGN

DOTD

PLAN AND PROFILE SHEET

LA 8 REALIGNMENT AT OUACHITA RIVER

NO.	DATE	REVISION DESCRIPTION	BY

DESIGNED J. BROWN	CHECKED P. TONEY	PARISH	CATAHOULA
DETAILED C. PHAM	CHECKED P. TONEY	FEDERAL PROJECT	
DATE	SHEET	STATE PROJECT	H.001129

SHEET NUMBER 9

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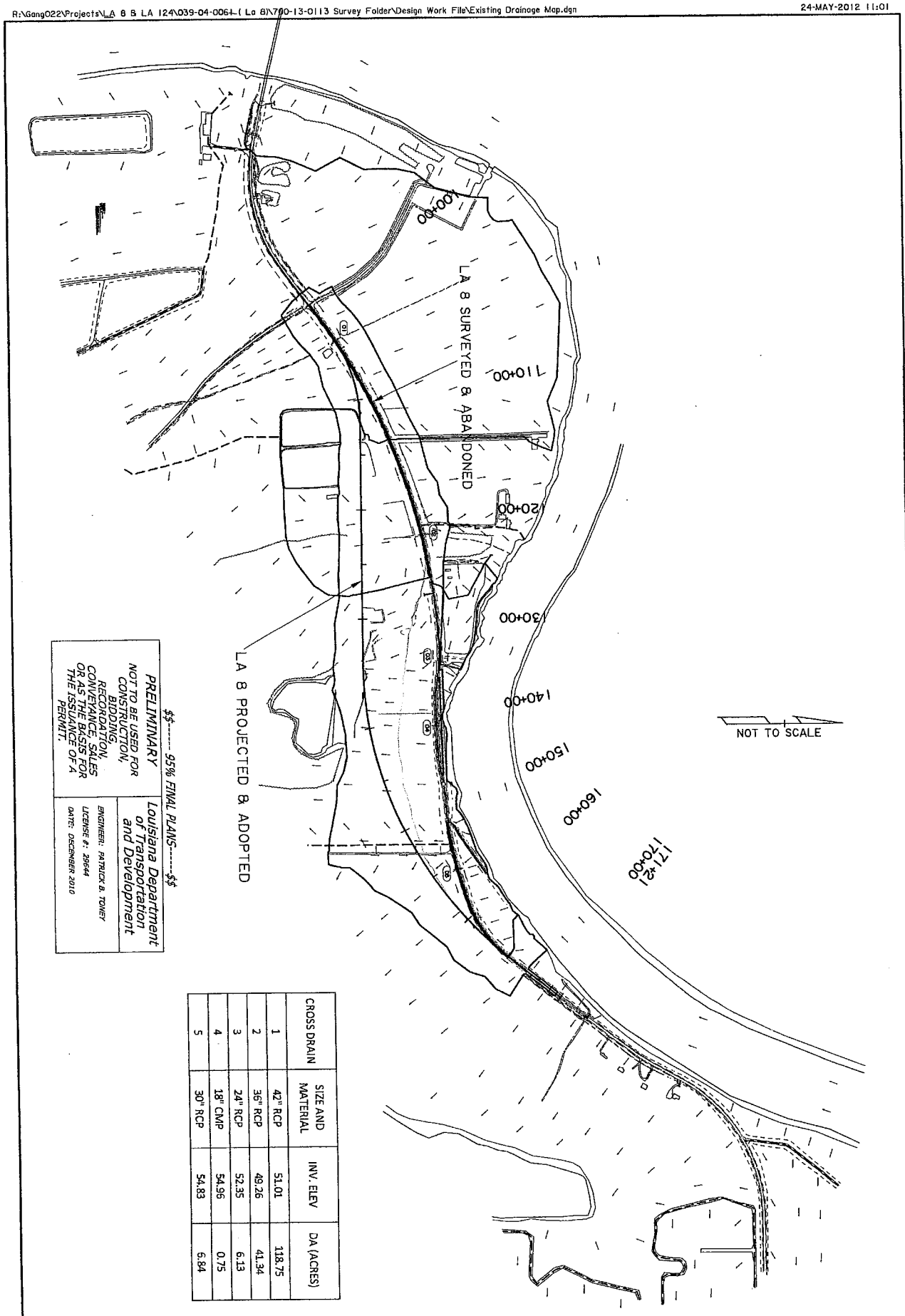


CROSS DRAIN	SIZE AND MATERIAL	INV. ELEV	DA (ACRES)
1	42" RCP	51.01	118.75
2	36" RCP	49.26	41.34
3	24" RCP	52.35	6.13
4	18" CMP	54.96	0.75
5	30" RCP	54.83	6.84

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

$$------ 95% FINAL PLANS ------$$

Louisiana Department of Transportation and Development

ENGINEER: PATRICK B. TONEY
LICENSE #: 29644
DATE: DECEMBER 2010

ROAD DESIGN

EXISTING DRAINAGE MAP

LA 8 REALIGNMENT AT OUACHITA RIVER

NO.	DATE	REVISION DESCRIPTION	BY

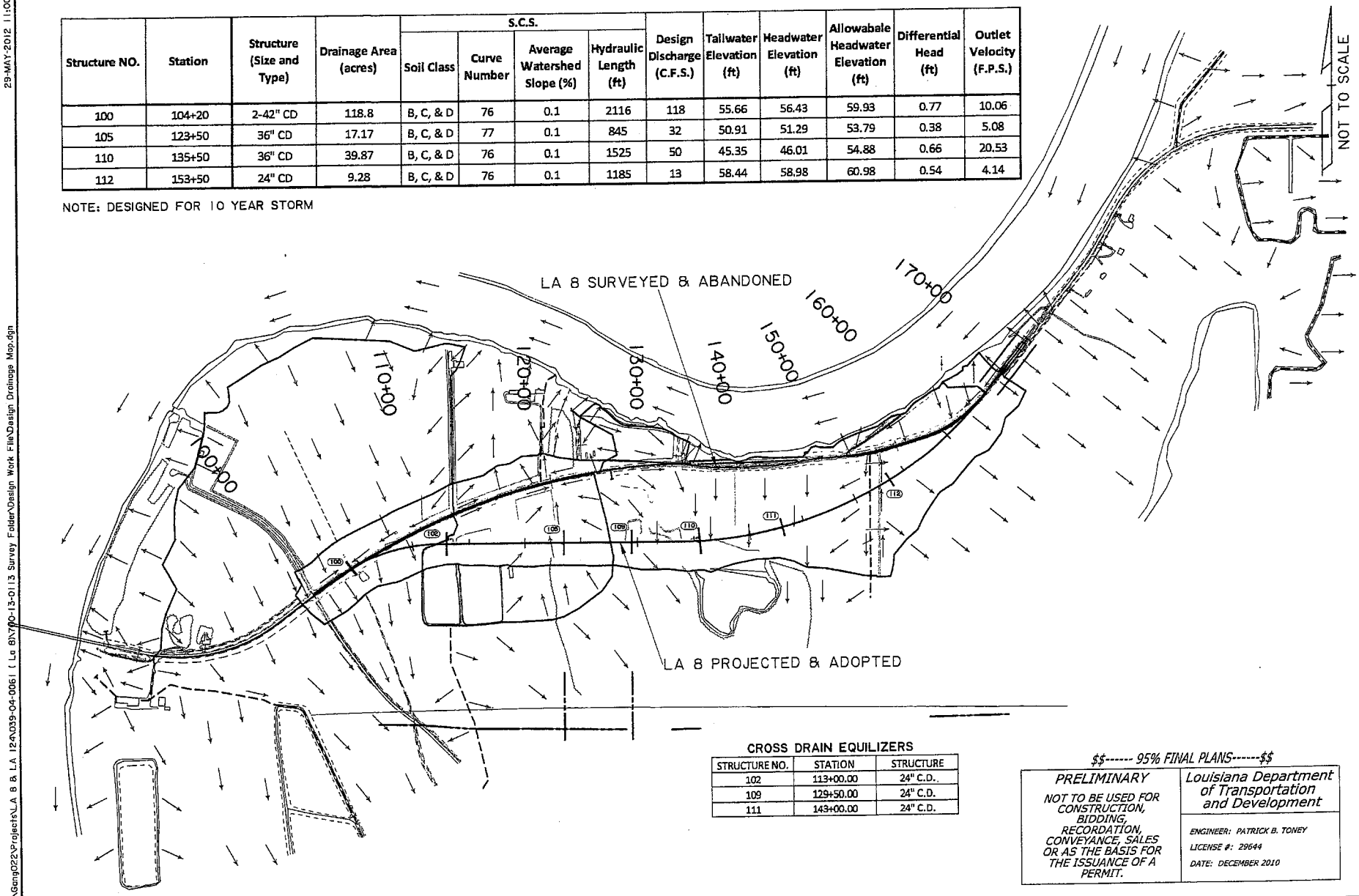
DESIGNED C.NEYLAND
CHECKED J.BROWN
DETAILED
CHECKED
DATE SHEET 05-02-2011

PARISH CATAHOULA
FEDERAL PROJECT H001129
STATE PROJECT H.001129

SHEET NUMBER 10

Structure NO.	Station	Structure (Size and Type)	Drainage Area (acres)	S.C.S.				Design Discharge (C.F.S.)	Tailwater Elevation (ft)	Headwater Elevation (ft)	Allowable Headwater Elevation (ft)	Differential Head (ft)	Outlet Velocity (F.P.S.)
				Soil Class	Curve Number	Average Watershed Slope (%)	Hydraulic Length (ft)						
100	104+20	2-42" CD	118.8	B, C, & D	76	0.1	2116	118	55.66	56.43	59.93	0.77	10.06
105	123+50	36" CD	17.17	B, C, & D	77	0.1	845	32	50.91	51.29	53.79	0.38	5.08
110	135+50	36" CD	39.87	B, C, & D	76	0.1	1525	50	45.35	46.01	54.88	0.66	20.53
112	153+50	24" CD	9.28	B, C, & D	76	0.1	1185	13	58.44	58.98	60.98	0.54	4.14

NOTE: DESIGNED FOR 10 YEAR STORM



NOT TO SCALE

CROSS DRAIN EQUILIZERS

STRUCTURE NO.	STATION	STRUCTURE
102	113+00.00	24" C.D.
109	129+50.00	24" C.D.
111	143+00.00	24" C.D.

$$------ 95% FINAL PLANS------$$

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

Louisiana Department of Transportation and Development

ENGINEER: PATRICK B. TONEY

LICENSE #: 29644

DATE: DECEMBER 2010

SHEET NUMBER 11

PARISH CATAHOULA

FEDERAL PROJECT H001129

STATE PROJECT H.001129

DESIGNED J.NETLAND

CHECKED J.GROOM

DETAILED CHECKED

DATE LAST 05-02-2011

BY

NO. DATE REVISION DESCRIPTION

DESIGN DRAINAGE MAP

LA 8 REALIGNMENT AT OUACHITA RIVER

ROAD DESIGN

29-MAY-2012 11:00

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