APPENDIX B

LINE AND GRADE

APPENDIX B-1

PRELIMINARY PLANS

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
2 - 2e	TYPICAL SECTIONS
4 - 31	PLAN PROFILE SHEETS
32 - 35	INTERSECTION LAYOUT

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PLANS OF PROPOSED STATE HIGHWAY

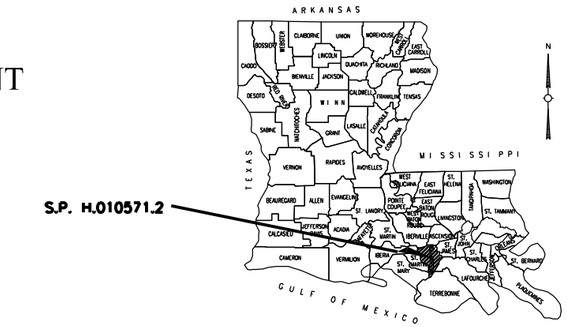
STATE PROJECT NUMBER H.010571.2
FEDERAL PROJECT NUMBER H010571

LA 70 BYPASS

STAGE 1- ENVIRONMENTAL ASSESSMENT

PARISH ASSUMPTION

ROUTE LA 70



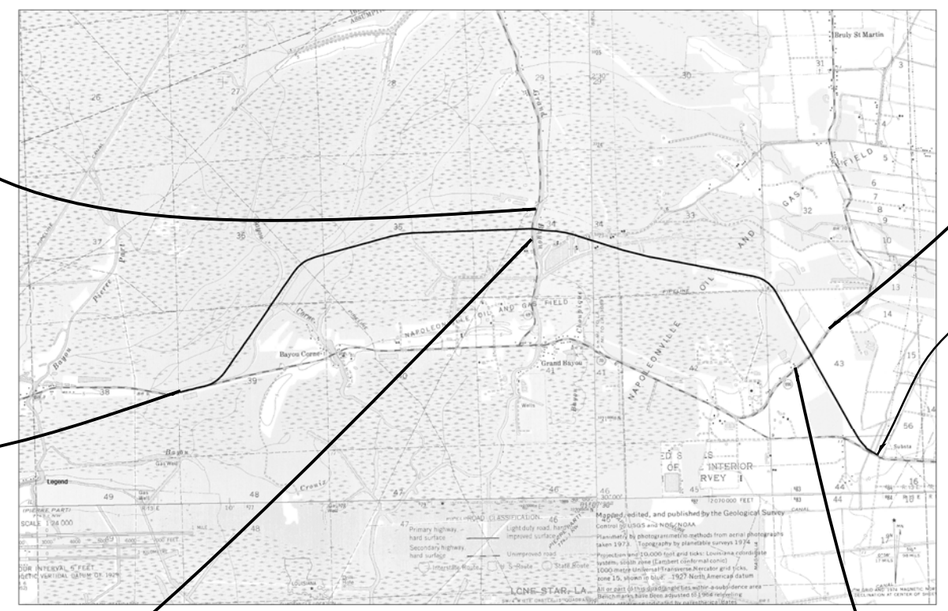
VICINITY MAP

END LA 69
CONSTRUCTION
STA. 3+53.98
CONTROL SECTION 406-01
LOG MILE 0.76

END LA 996
CONSTRUCTION
STA. 20+28.91
CONTROL SECTION 804-08
LOG MILE 0.98

END PROJECT
STA. 282+28.22
CONTROL SECTION 232-01
LOG MILE 2.32

BEGIN PROJECT
STA. 0+00.00
CONTROL SECTION 232-01
LOG MILE 6.79



BEGIN LA 69
CONSTRUCTION
STA. 0+00.00
CONTROL SECTION 406-01
LOG MILE 0.69

BEGIN LA 996
CONSTRUCTION
STA. 0+00.00
CONTROL SECTION 804-08
LOG MILE 0.61

LAYOUT MAP

4000 2000 0 4000

Scale: 1" = 4000'

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS* *LICENSE #: 34767* *DATE: 1/6/15*

ADT: 7517
ROADWAY CLASSIFICATION: RA-2

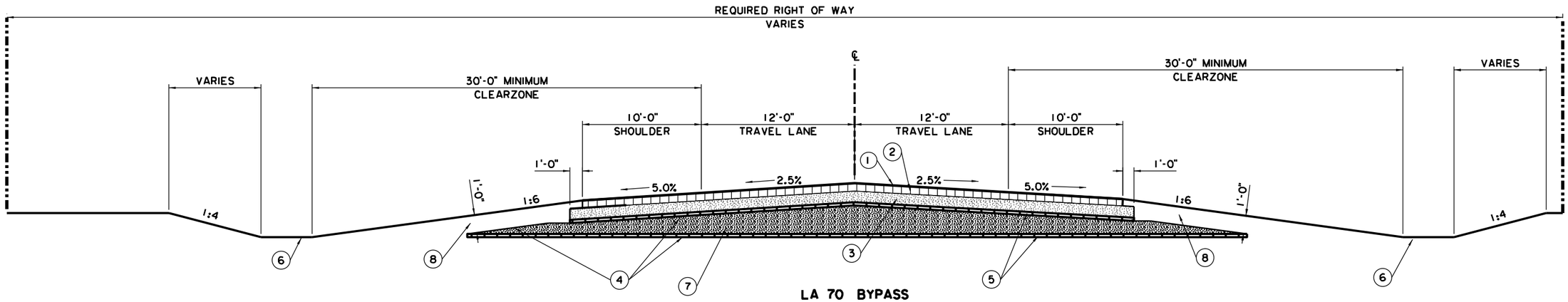
DESIGN SPEED: 60 MPH

SHEET NUMBER	1
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

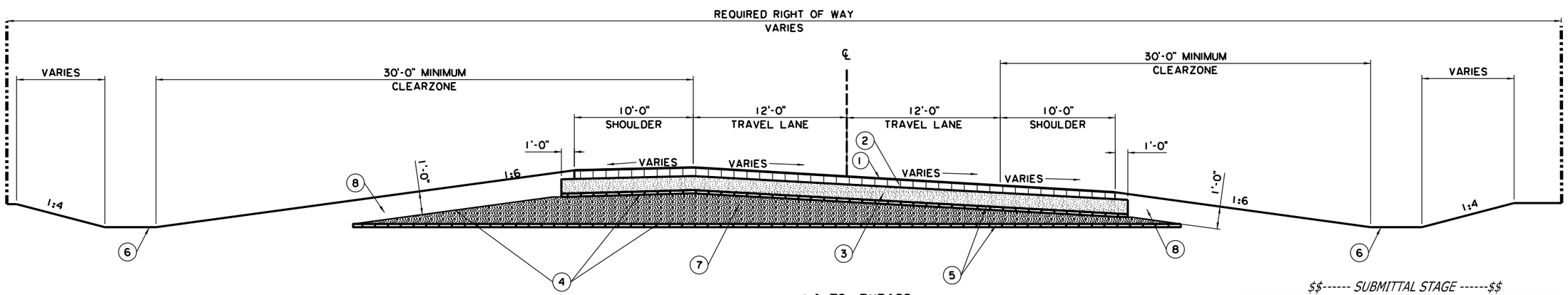
LA 70 BYPASS
ALTERNATIVE 3
TITLE SHEET

PROVIDENCE



LA 70 BYPASS
RA-2 ROADWAY CLASSIFICATION
TYPICAL CROWN FINISHED SECTION (N.T.S.)

0+00.00 TO 0+59.38
17+32.06 TO 21+69.50
118+99.50 TO 121+26.00
177+61.00 TO 204+46.19
221+21.20 TO 270+28.44
291+34.57 TO 291+72.16
BEGIN TIE-IN 0+00 TO 7+54.74
END TIE-IN 1+00 TO 8+00



1. 2" SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 2F
2. 8" SUPERPAVE ASPHALTIC CONCRETE BINDER COURSE, LEVEL 2
3. 10" CLASS II BASE COURSE
4. GEOTEXTILE FABRIC
5. GEOGRID
6. 4' MINIMUM DITCH BOTTOM
7. EMBANKMENT (LIGHTWEIGHT FILL MATERIAL)
8. EMBANKMENT (CLAY BLANKET)

LA 70 BYPASS
RA-2 ROADWAY CLASSIFICATION
TYPICAL SUPERELEVATION FINISHED SECTION (N.T.S.)

0+59.38 TO 17+32.06
204+46.19 TO 221+21.20
270+28.44 TO 291+34.57

$$------ SUBMITTAL STAGE ------$$

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

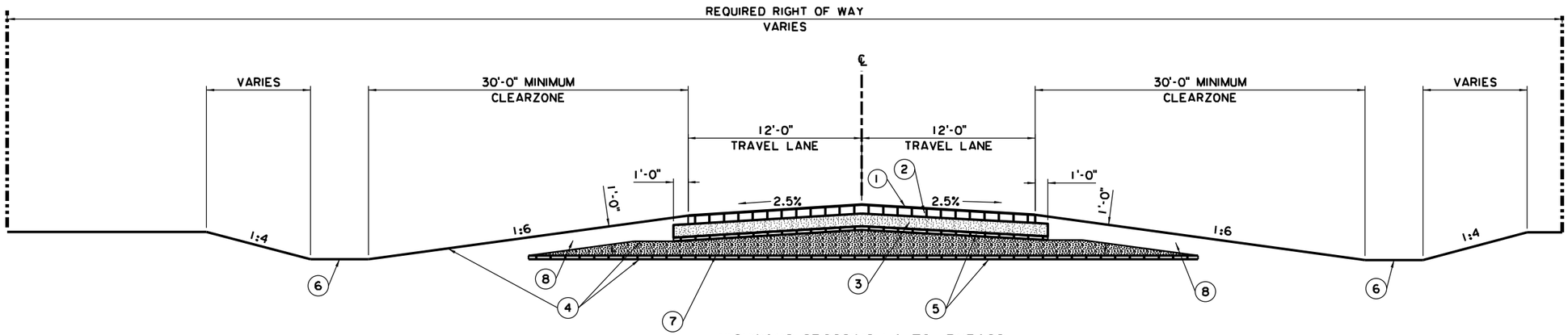
Louisiana Department of Transportation and Development

ENGINEER: R. ADAM DAVIS
LICENSE #: 34767
DATE: 1/6/15

SHEET NUMBER 2
PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 1 OF 6
NO. | DATE | REVISION DESCRIPTION | BY

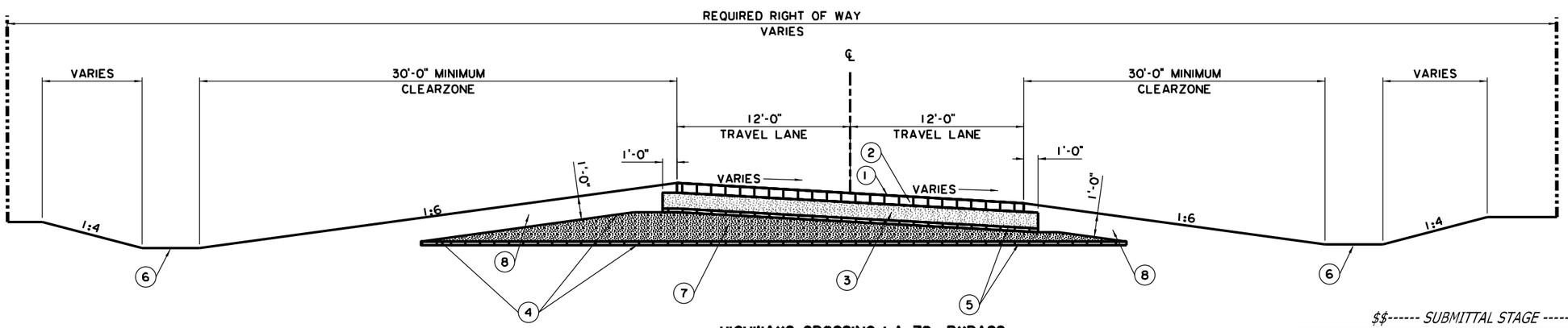
LA 70 BYPASS
ALTERNATIVE 3
TYPICAL SECTION

PROVIDENCE



HIGHWAYS CROSSING LA 70 BYPASS
TYPICAL CROWN FINISHED SECTION (N.T.S.)

LA 69
0+00.00 TO 3+53.98
LA 996
0+00.00 TO 4+35.71
18+07.19 TO 20+28.91



1. 2" SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 2F
2. 8" SUPERPAVE ASPHALTIC CONCRETE BINDER COURSE, LEVEL 2
3. 10" CLASS II BASE COURSE
4. GEOTEXTILE FABRIC
5. GEOGRID
6. 4' MINIMUM DITCH BOTTOM
7. EMBANKMENT (LIGHTWEIGHT FILL MATERIAL)
8. EMBANKMENT (CLAY BLANKET)

HIGHWAYS CROSSING LA 70 BYPASS
TYPICAL SUPERELEVATION FINISHED SECTION (N.T.S.)

LA 996
4+35.71 TO 18+07.19

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS
LICENSE #: 34767
DATE: 1/6/15

SHEET NUMBER 2A

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

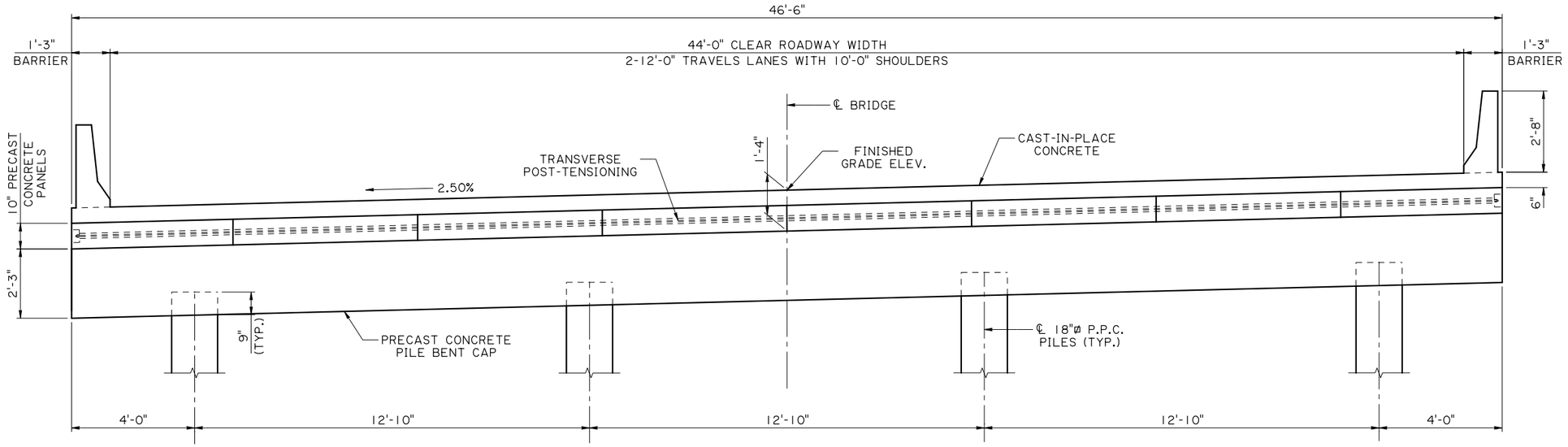
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 2 OF 6

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS
ALTERNATIVE 3
TYPICAL SECTION

PROVIDENCE

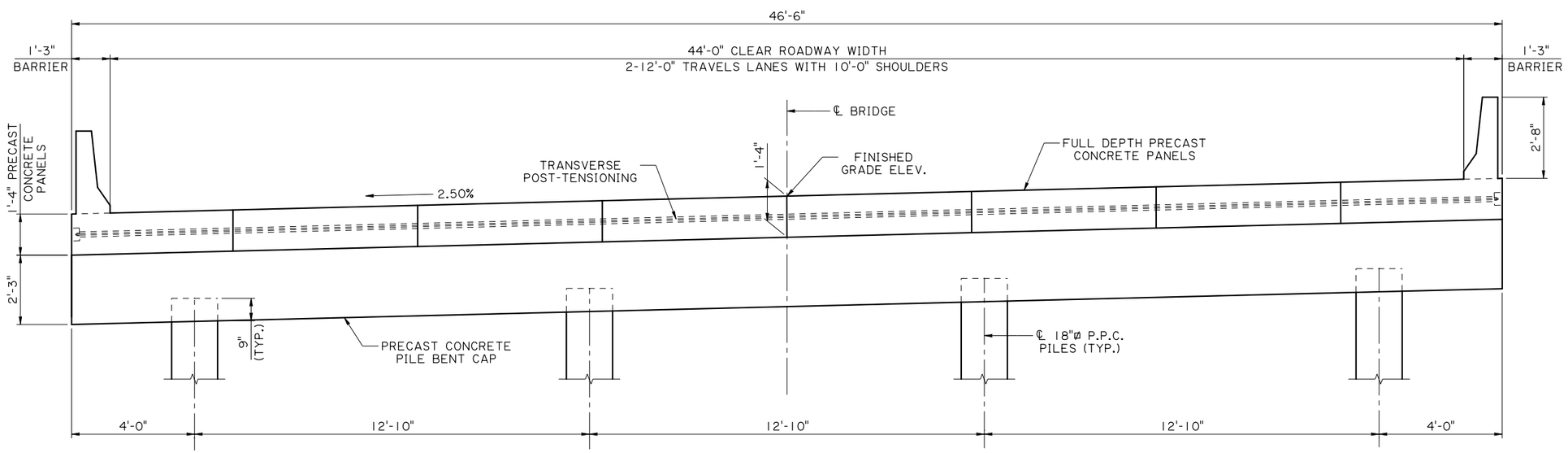
PRELIMINARY
X:\HUVAL Projects\5716 (Stage 1 - LA 70 Relocation)\Working Drawings\Border to print\Typical Bridge Sections Alternative 3-1 of 4.dgn 10/22/2014 2:57:06 PM



TYPICAL BRIDGE SECTION

(PARTIAL DEPTH PRECAST CONCRETE SLAB SPAN)

STA: 21+69.50 TO 24+94.50
115+24.50 TO 118+99.50
121+26.00 TO 127+26.00
174+11.00 TO 177+61.00



TYPICAL BRIDGE SECTION ALTERNATIVE

(FULL DEPTH PRECAST CONCRETE SLAB SPAN)

STA: 21+69.50 TO 24+94.50
115+24.50 TO 118+99.50
121+26.00 TO 127+26.00
174+11.00 TO 177+61.00

PRELIMINARY

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

HUVAL & ASSOCIATES, INC.

ENGINEER: JUSTIN C. PELTIER
LICENSE #: 34765
DATE: 10/22/2014

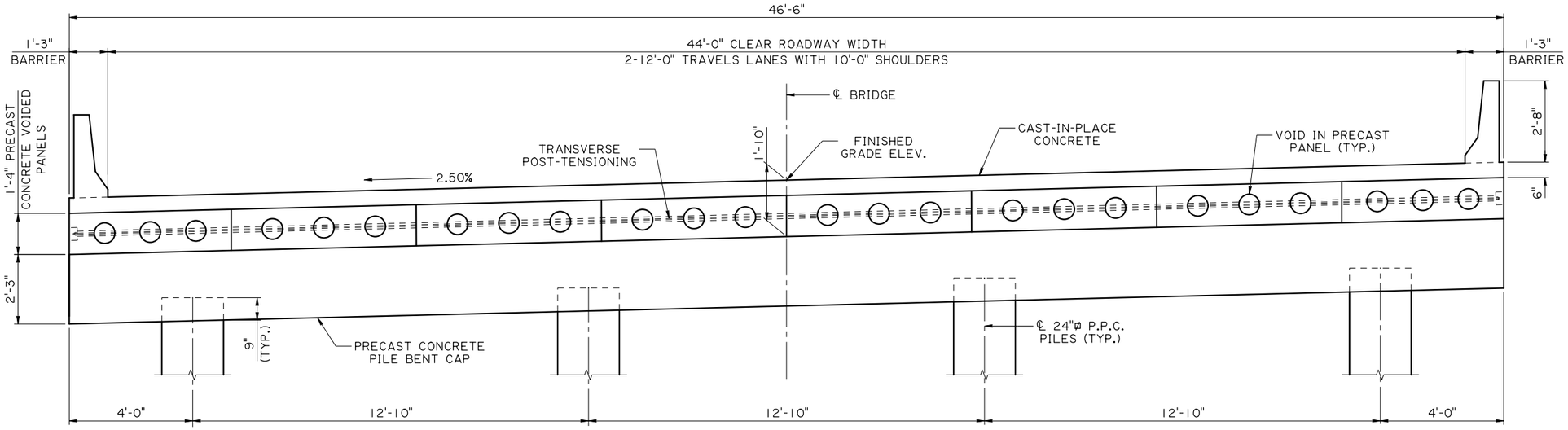
SHEET NUMBER	2b
PARISH	ASSUMPTION
CONTROL SECTION	
STATE PROJECT	H.010571.2
DESIGNED JCP / CHECKED CJG	
DETAILED AJJ / CHECKED JCP	
REVIEWED / SERIES #	1 OF 4

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

TYPICAL BRIDGE SECTIONS
ALTERNATIVE 3
LA 70 BYPASS

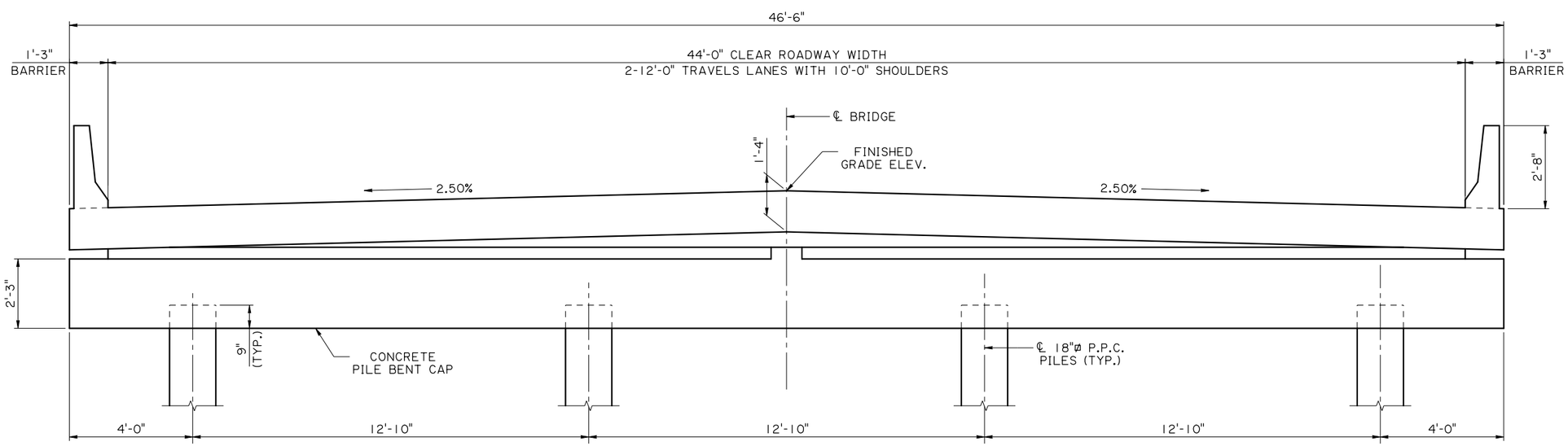
HUVAL & ASSOCIATES, INC.
Consulting Engineers

PRELIMINARY
X:\HUVAL Projects\5716 (Stage 1 - LA 70 Relocation)\Working Drawings\Border to print\Typical Bridge Sections Alternative 3-2 of 4.dgn 10/22/2014 2:57:47 PM



TYPICAL BRIDGE SECTION ALTERNATIVE
(PARTIAL DEPTH PRECAST CONCRETE VOIDED SLAB SPAN)

STA: 21+69.50 TO 24+94.50
115+24.50 TO 118+99.50
121+26.00 TO 127+26.00
174+11.00 TO 177+61.00



TYPICAL BRIDGE SECTION ALTERNATIVE*
(CAST-IN-PLACE OPTION)

* AT LOCATIONS WHERE PRECAST SPANS ARE DETERMINED NOT FEASIBLE DUE TO GEOMETRIC AND/OR CONSTRUCTABILITY REASONS.

PRELIMINARY

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

HUVAL & ASSOCIATES, INC.

ENGINEER: JUSTIN C. PELTIER
LICENSE #: 34765
DATE: 10/22/2014

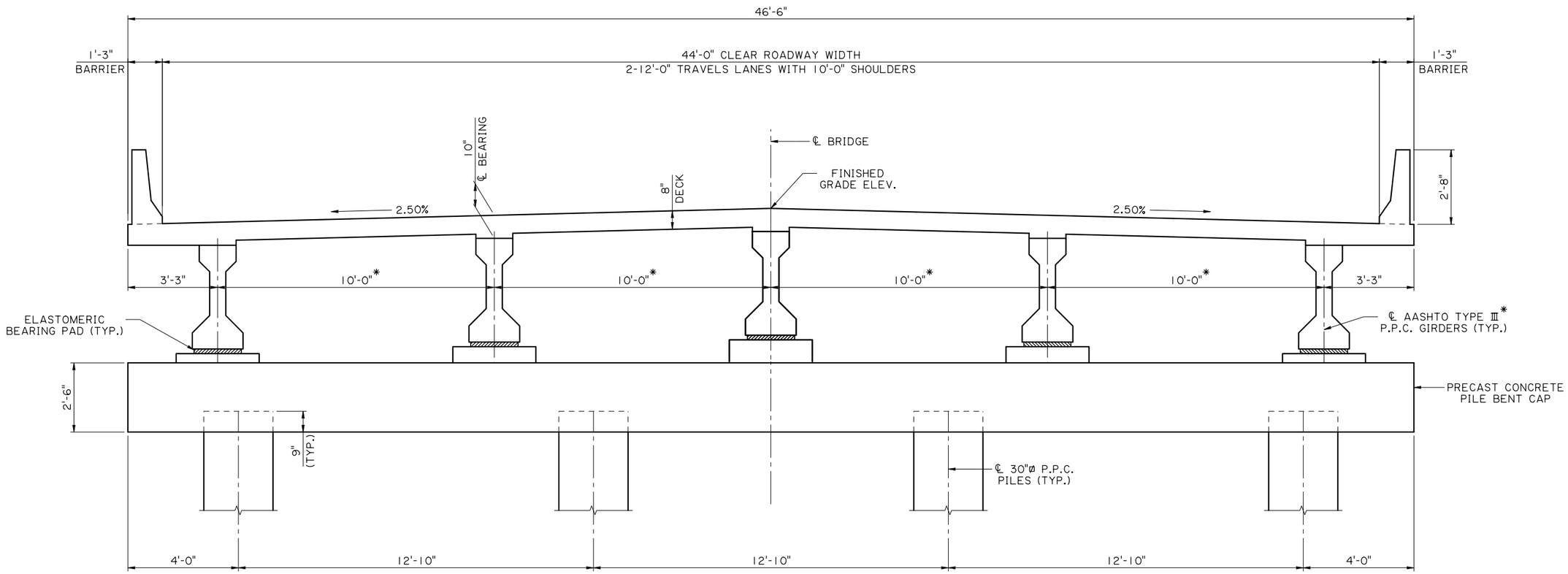
SHEET NUMBER 2c
PARISH: ASSUMPTION
CONTROL SECTION
STATE PROJECT: H.010571.2
DESIGNED: JCP
CHECKED: CJG
DETAILED: AJJ
CHECKED: JCP
REVIEWED
SERIES # 2 OF 4

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

TYPICAL BRIDGE SECTIONS
ALTERNATIVE 3
LA 70 BYPASS

HUVAL & ASSOCIATES, INC. Consulting Engineers

PRELIMINARY
X:\HUVAL Projects\5716 (Stage 1 - LA 70 Relocation)\Working Drawings\Border to print\Typical Bridge Sections Alternative 3-3 of 4.dgn 10/22/2014 2:58:06 PM



TYPICAL BRIDGE SECTION

(P.P.C. GIRDER SPAN)

STA: 24+94.50 TO 115+24.50
127+26.00 TO 146+11.00
151+86.00 TO 174+11.00

* FOR SPAN LENGTHS GREATER THAN 65'-0" AND LESS THAN 85'-0", 6 GIRDERS ARE REQUIRED WITH A GIRDER SPACING OF 8'-0".

PRELIMINARY

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

HUVAL & ASSOCIATES, INC.

ENGINEER: JUSTIN C. PELTIER
LICENSE #: 34765
DATE: 10/22/2014

SHEET NUMBER	2d
PARISH	ASSUMPTION
CONTROL SECTION	
STATE PROJECT	H.010571.2
DESIGNED JCP / CHECKED CJG	
DETAILED AJJ / CHECKED JCP	
REVIEWED / SERIES # 3 OF 4	

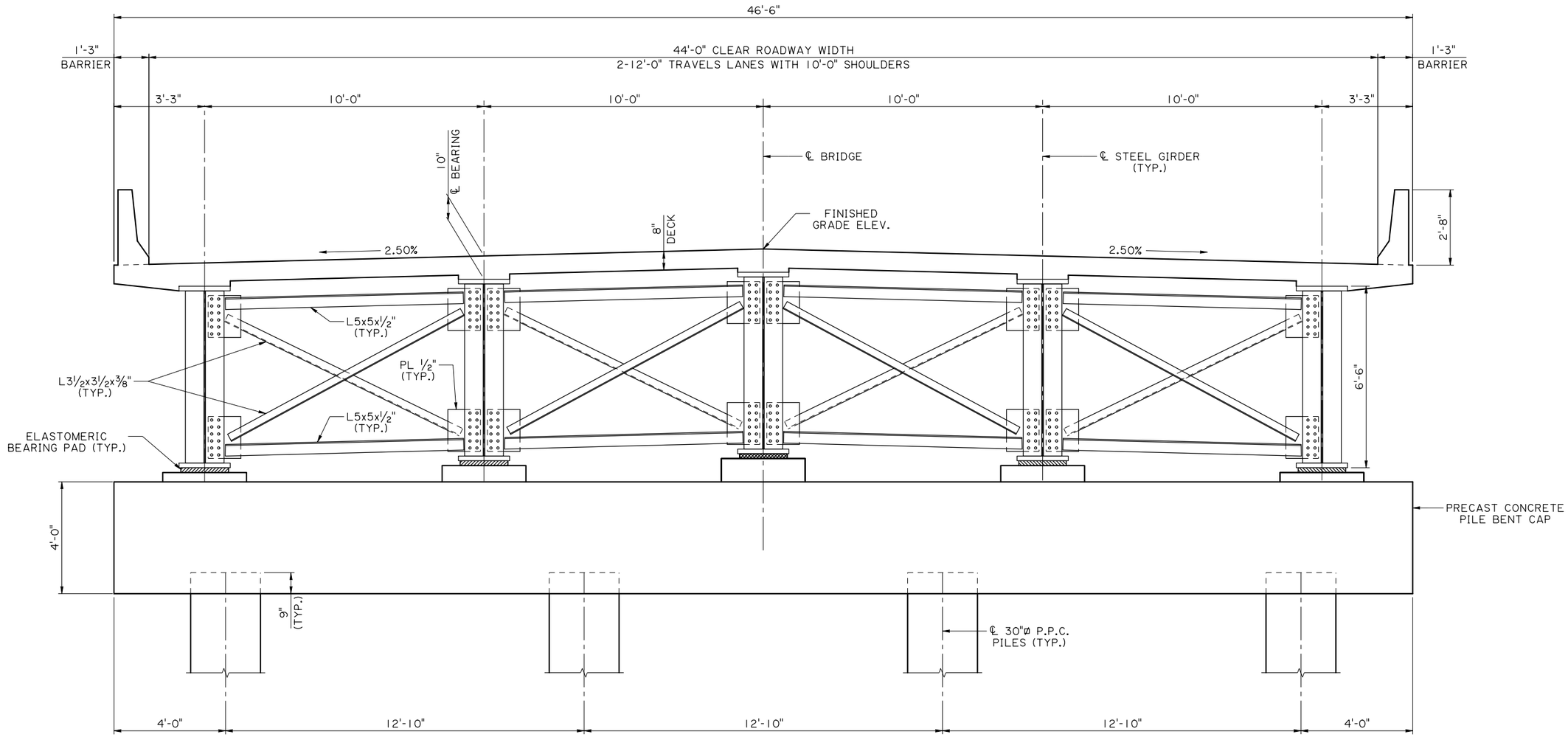
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

TYPICAL BRIDGE SECTIONS
ALTERNATIVE 3
LA 70 BYPASS

HUVAL & ASSOCIATES, INC. Consulting Engineers

X:\HUVAL Projects\5716 (Stage 1 - LA 70 Relocation)\Working Drawings\Border to print\Typical Bridge Sections Alternative 3-4 of 4.dgn 10/22/2014 2:58:30 PM

PRELIMINARY



TYPICAL BRIDGE SECTION
(STEEL GIRDER SPAN)
STA. 146+11.00 TO 151+86.00

PRELIMINARY

PRELIMINARY	HUVAL & ASSOCIATES, INC.
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	ENGINEER: JUSTIN C. PELTIER LICENSE #: 34765 DATE: 10/22/2014

SHEET NUMBER	2e
PARISH	ASSUMPTION
CONTROL SECTION	
STATE PROJECT	H.010571.2
DESIGNED	JCP
CHECKED	CJG
DETAILED	JPS
CHECKED	JCP
REVIEWED	
SERIES #	4 OF 4

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

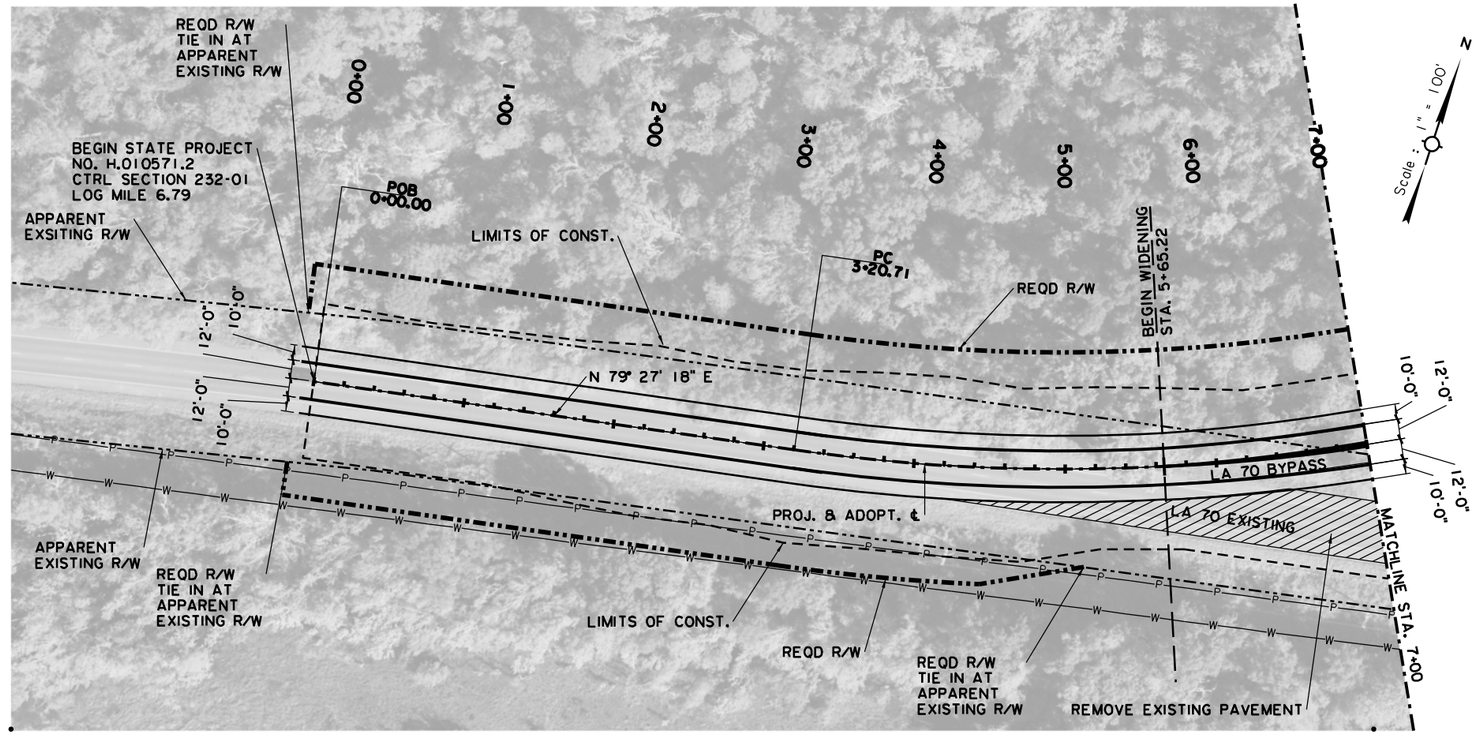
TYPICAL BRIDGE SECTIONS
ALTERNATIVE 3
LA 70 BYPASS

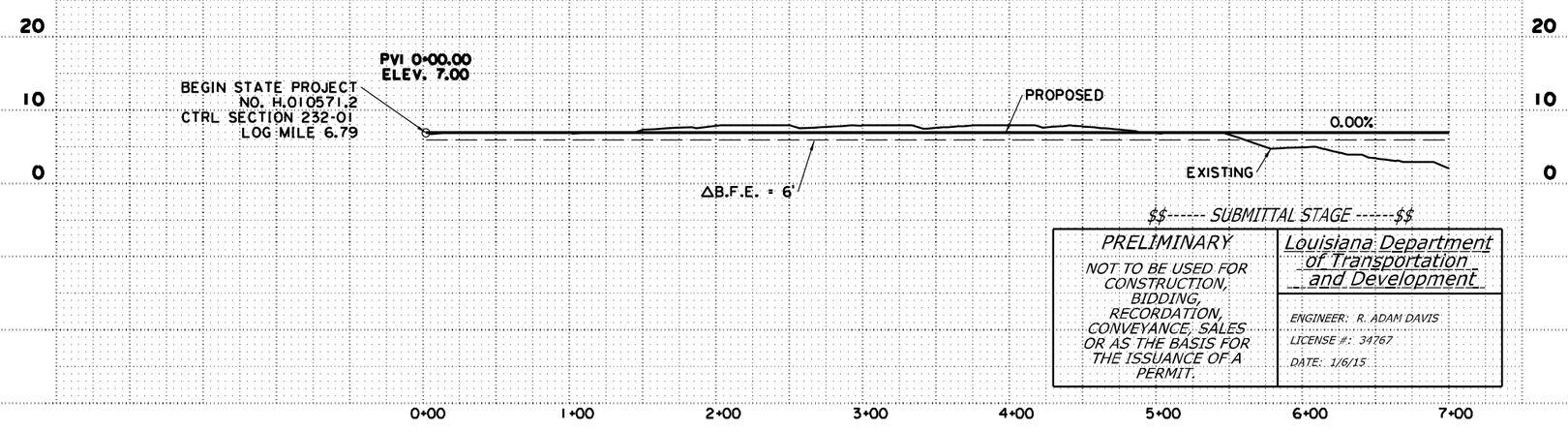
HUVAL & ASSOCIATES, INC. Consulting Engineers

LEGEND - EXISTING TOPOGRAPHY

CONTROL POINT
PHOTO TARGET
PAVEMENT EDGE
SHOULDER EDGE
SLOPE TOE
GUARDRAIL TOP
HIGH BANK
WATER'S EDGE
HIGH WATER MARK
BOX CULVERT
PIPE CULVERT
CATCH BASIN TOP (ROUND)
DROP INLET TOP (ROUND)
DRAINAGE MANHOLE TOP
LEVEE TOP
DITCH CENTERLINE
TREE
WOODS EDGE
MARSH LINE
SWAMP LINE
TREE CLUSTER
HEDGE
BUSH
TREE LINE
FENCE LINE
GATE
CATTLE GUARD
PROPERTY CORNER
RIGHT OF WAY MONUMENT
SECTION CORNER
FENCE CORNER
TELEVISION CABLE
TELEVISION PEDESTAL
POWER POLE
DEADMAN
POWER LINE
POWER JUNCTION BOX
POWER VAULT
TRANSFORMER
COMBINATION POLE
POWER DROP
PIPELINE
PIPELINE VENT
PIPELINE REGULATOR
GAS WELL
OIL WELL

GAS LINE
GAS METER
GAS SERVICE (NO METER)
GAS REGULATOR
GAS RISER
GAS TEST BOX
GAS VALVE
GAS LINE/CASING
GAS VENT
RAILROAD MILEPOST
RAILROAD SIGNAL
RAILROAD SWITCH
RAILROAD TRACK
RR TRAFFIC SIGNAL BOX
SEWER LINE
SEWER MANHOLE TOP
SEWER BLOWOUT VALVE
SEWER CLEANOUT
SEPTIC TANK
SEWER PUMP (PRIVATE)
SEWER TREATMENT (INDIVIDUAL)
FEDERAL AID MARKER
TRAFFIC CONTROLLER BOX
TRAFFIC COUNTER
TRAFFIC SIGNAL
TRAFFIC SIGNAL SUPPORT POLE
LIGHT POLE
LIGHT PEDESTAL
LIGHT POWER VAULT
TRAFFIC SIGN
PARKING METER
TELEPHONE POLE
TELEPHONE LINE
TELEPHONE BOOTH
TELE CROSS CONNECT BOX
TELEPHONE PEDESTAL
TELEPHONE PRESSURE BOX
WATER LINE
WATER LINE/CASING
WATER CLEANOUT
WATER METER
WATER VALVE
WATER VALVE VAULT
WATER WELL
FIRE HYDRANT
BILLBOARD
FUEL PUMP
POST
SIGN POST
STORAGE TANK (ROUND)
GRAVE
MAILBOX
ORNAMENTAL LIGHT
FLAG POLE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

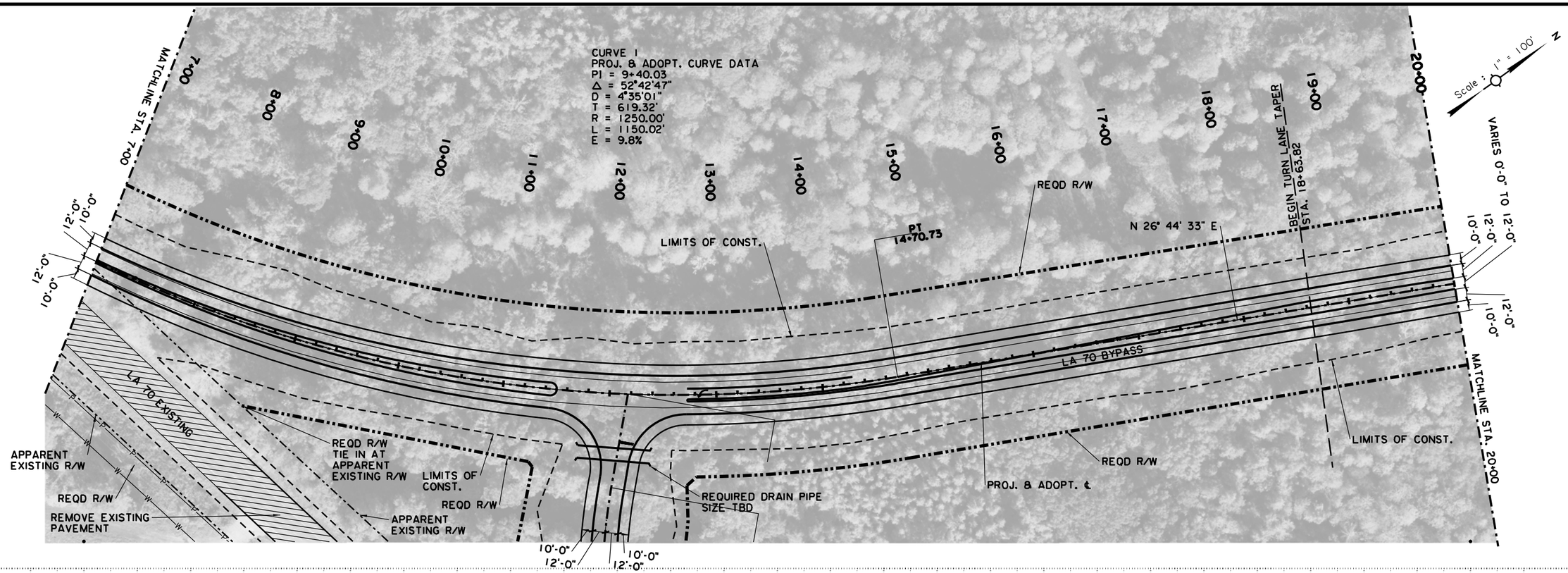
SHEET NUMBER	4
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	1 OF 28

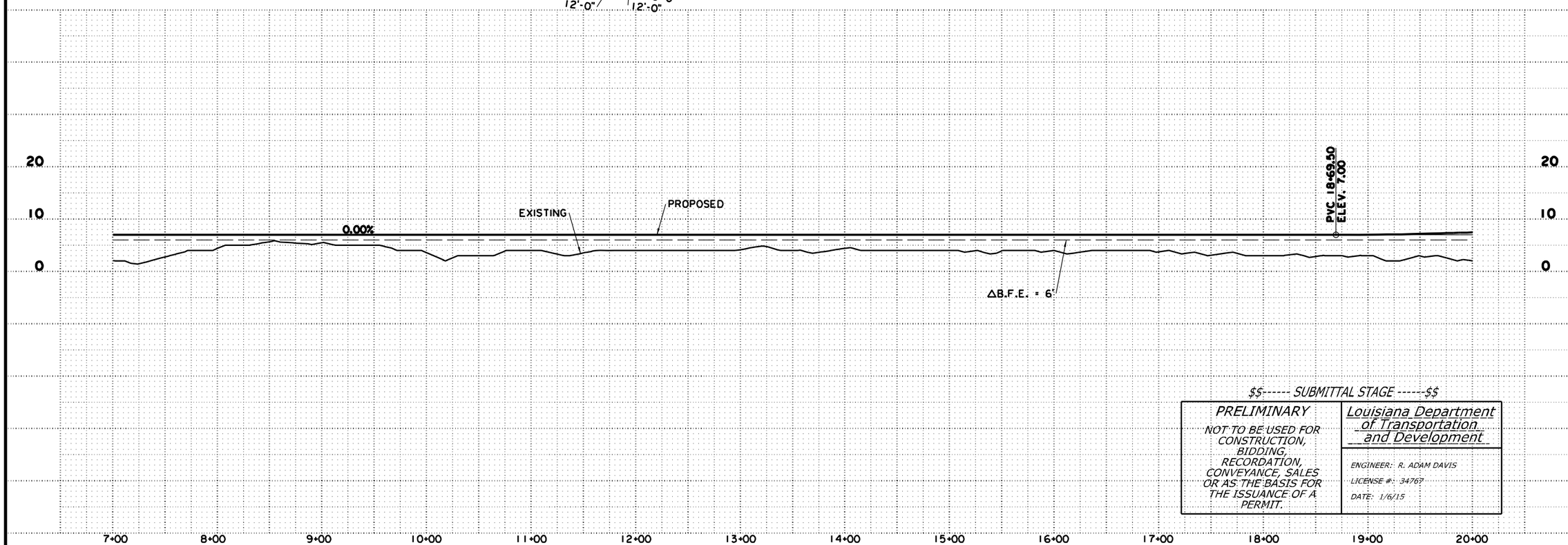
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

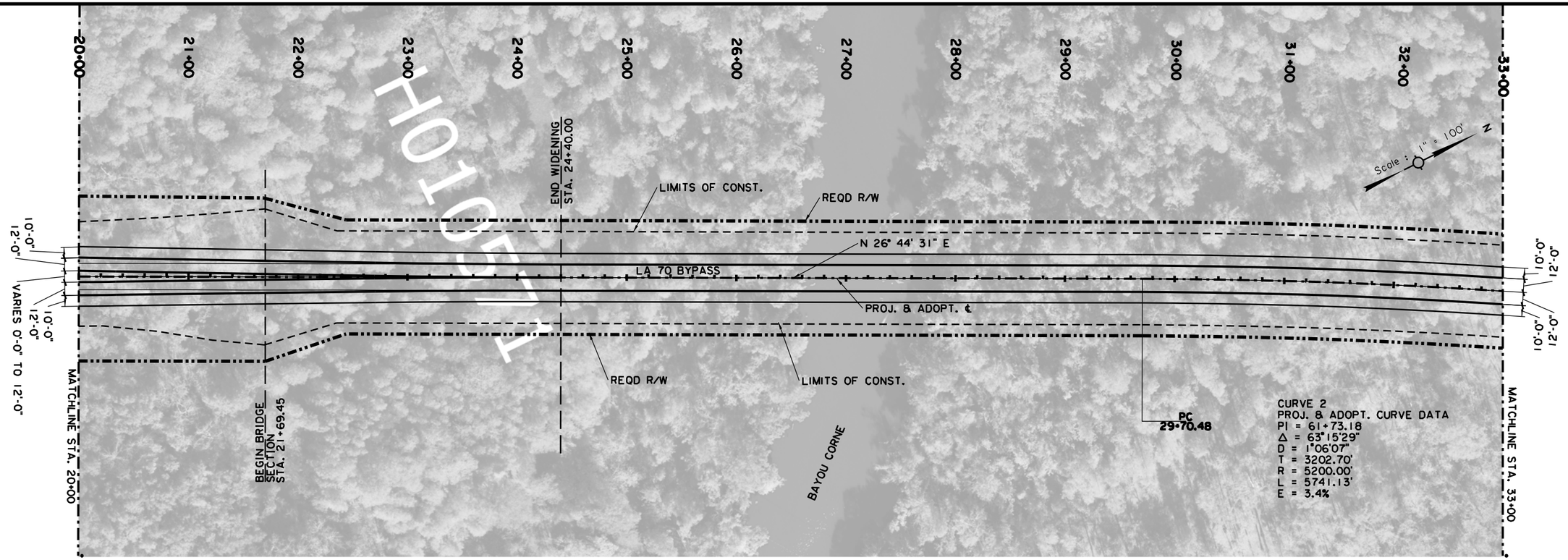
SHEET NUMBER	5
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	2 OF 28

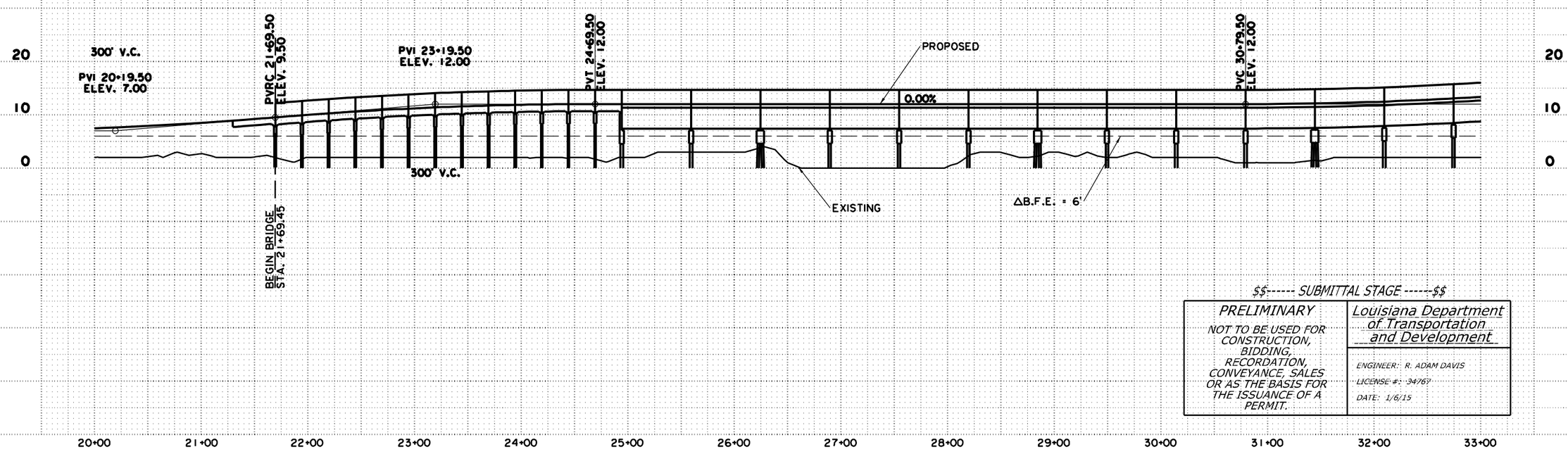
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 6

PARISH: ASSUMPTION

FEDERAL PROJECT: H010571

STATE PROJECT: H.010571.2

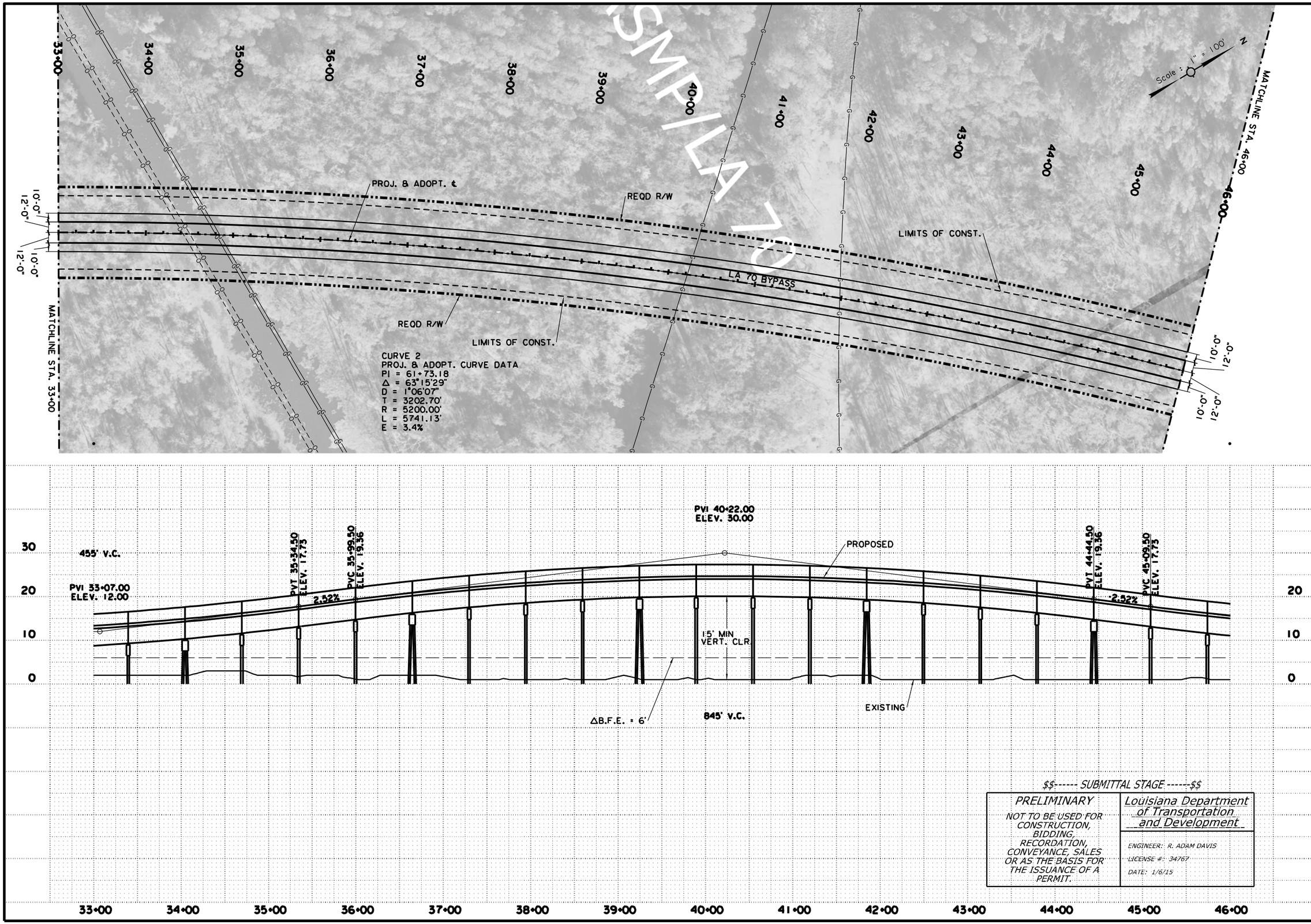
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 3 OF 28

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

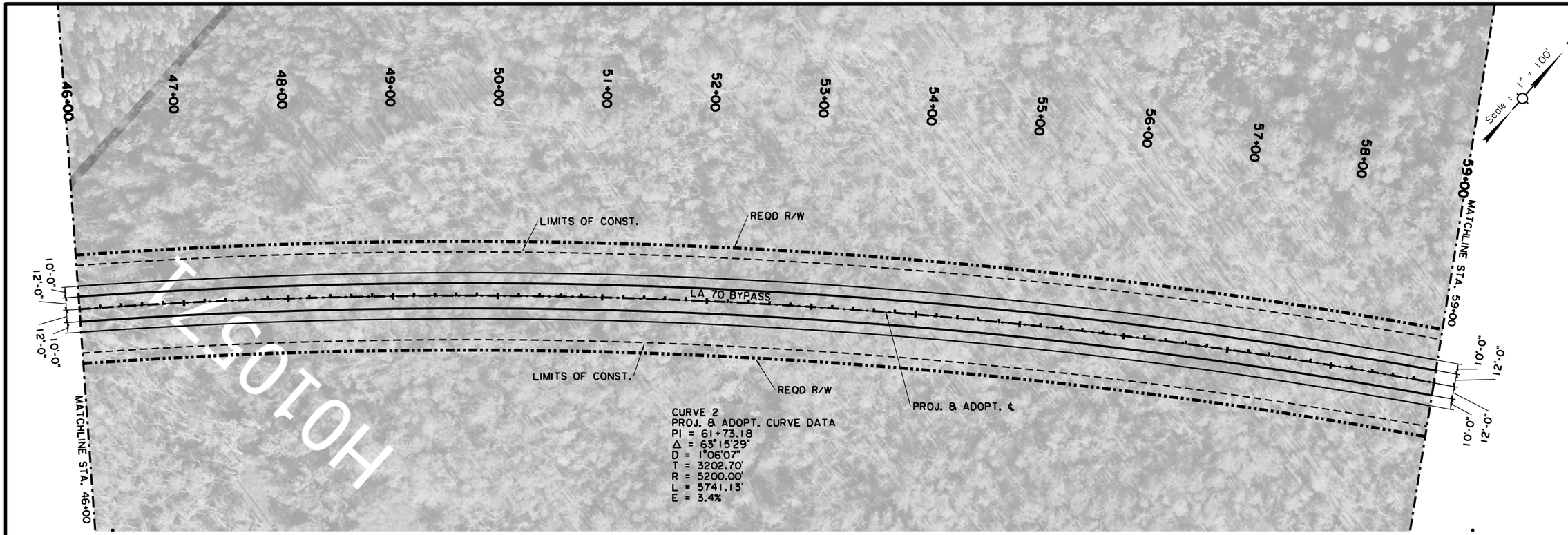
SHEET NUMBER			7
PARISH	ASSUMPTION		
FEDERAL PROJECT	H010571		
STATE PROJECT	H.010571.2		
DESIGNED	JPS	DATE	JAN 2015
CHECKED	RAD	SHEET	4 OF 28
DETAILED	JPS		
CHECKED	RAD		

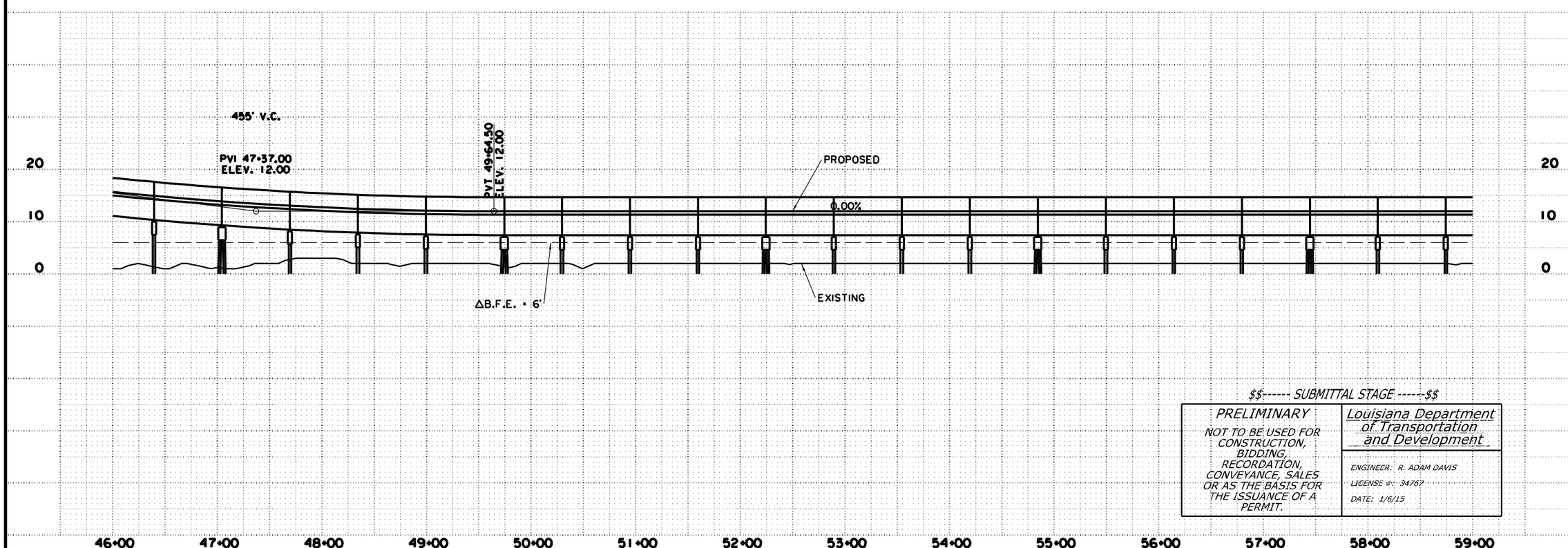
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

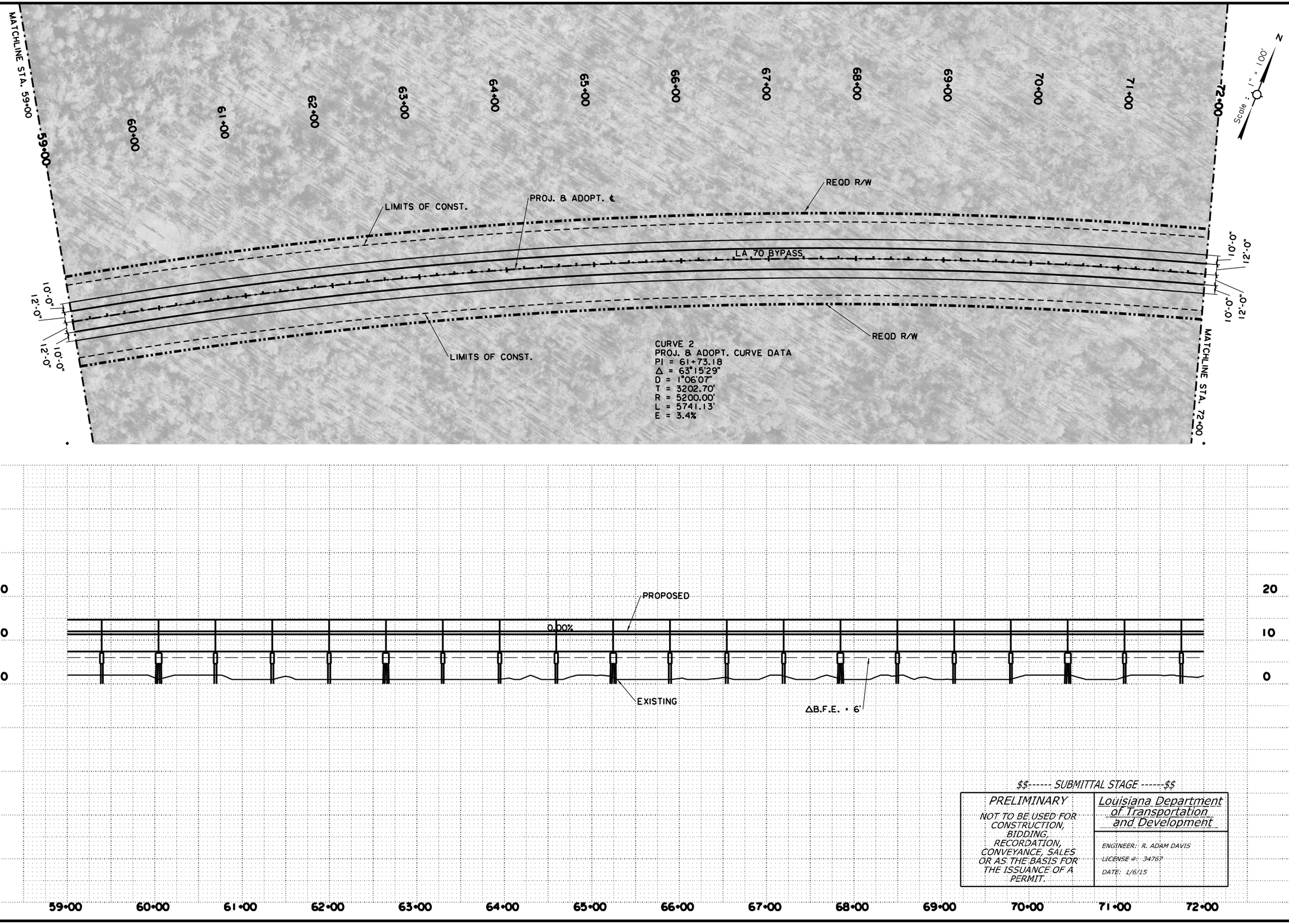
SHEET NUMBER	8
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	5 OF 28

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

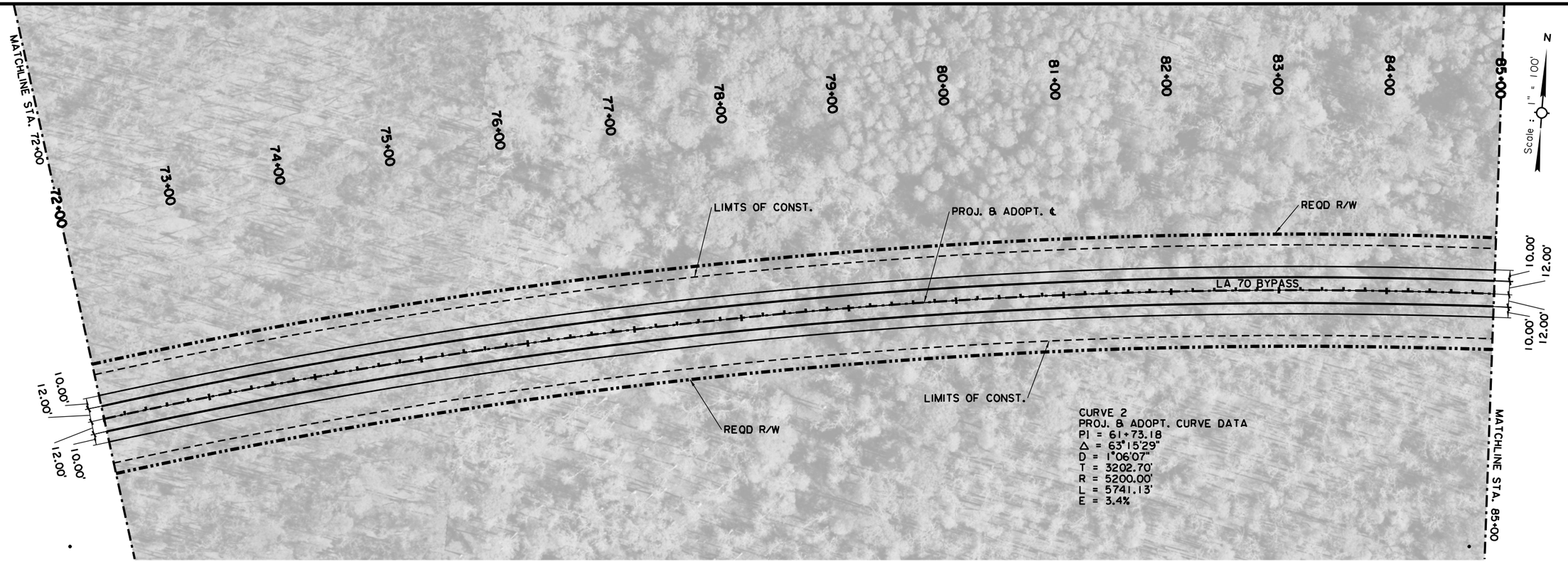
SHEET NUMBER	9
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	6 OF 28

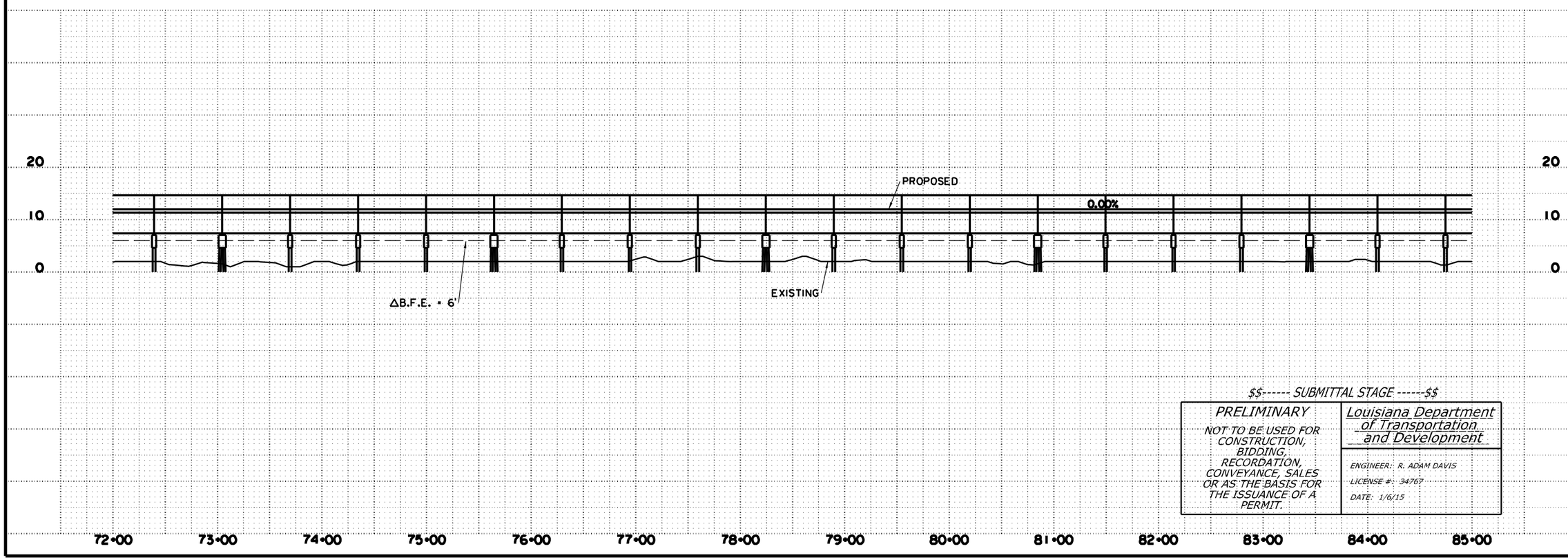
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

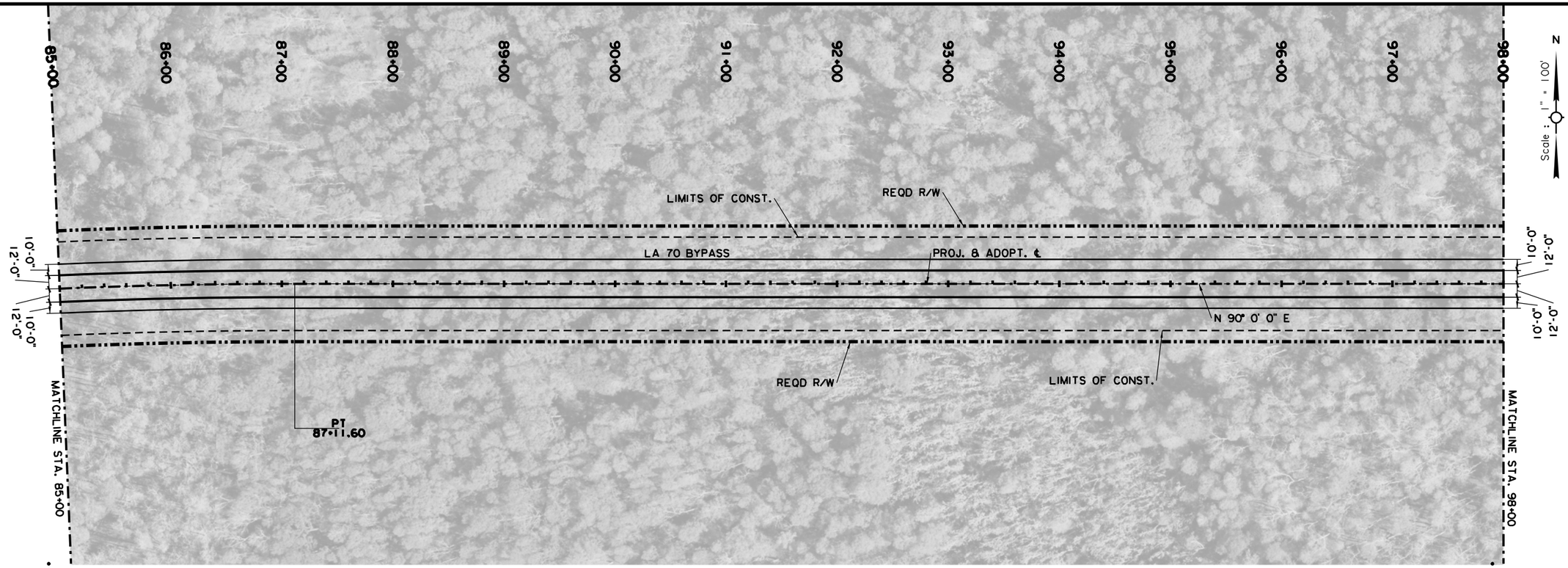
SHEET NUMBER	10
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 7 OF 28

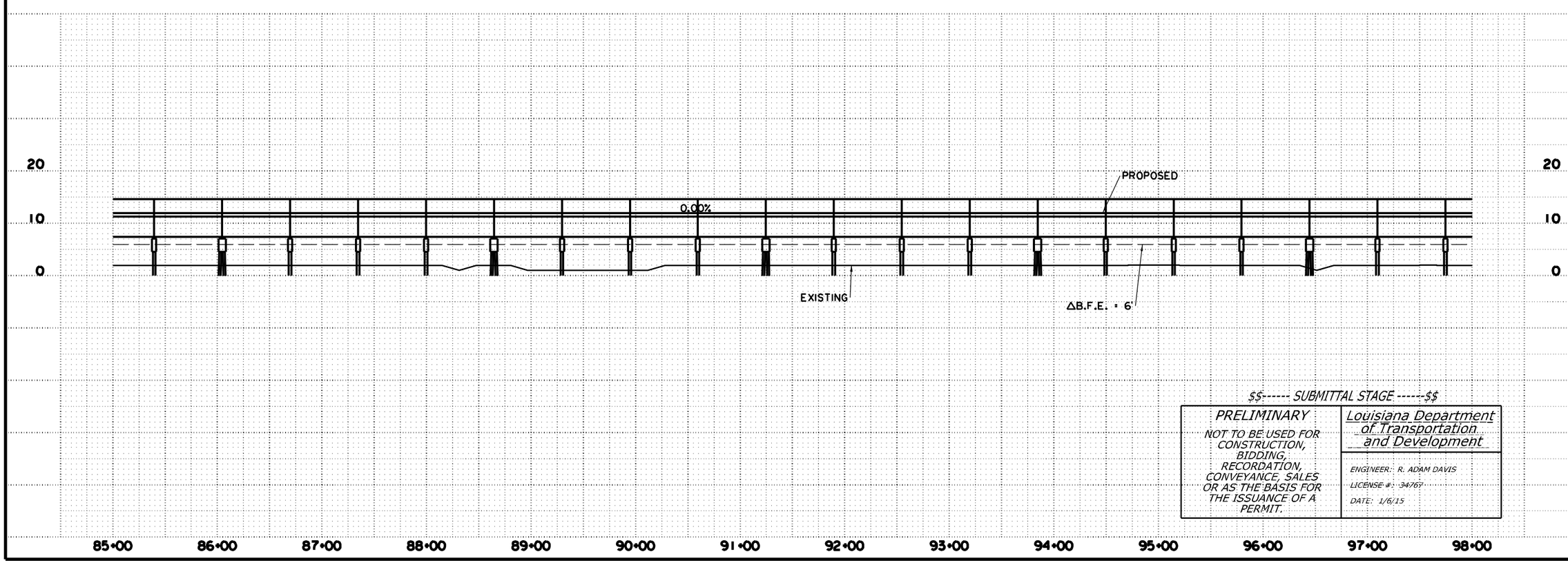
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

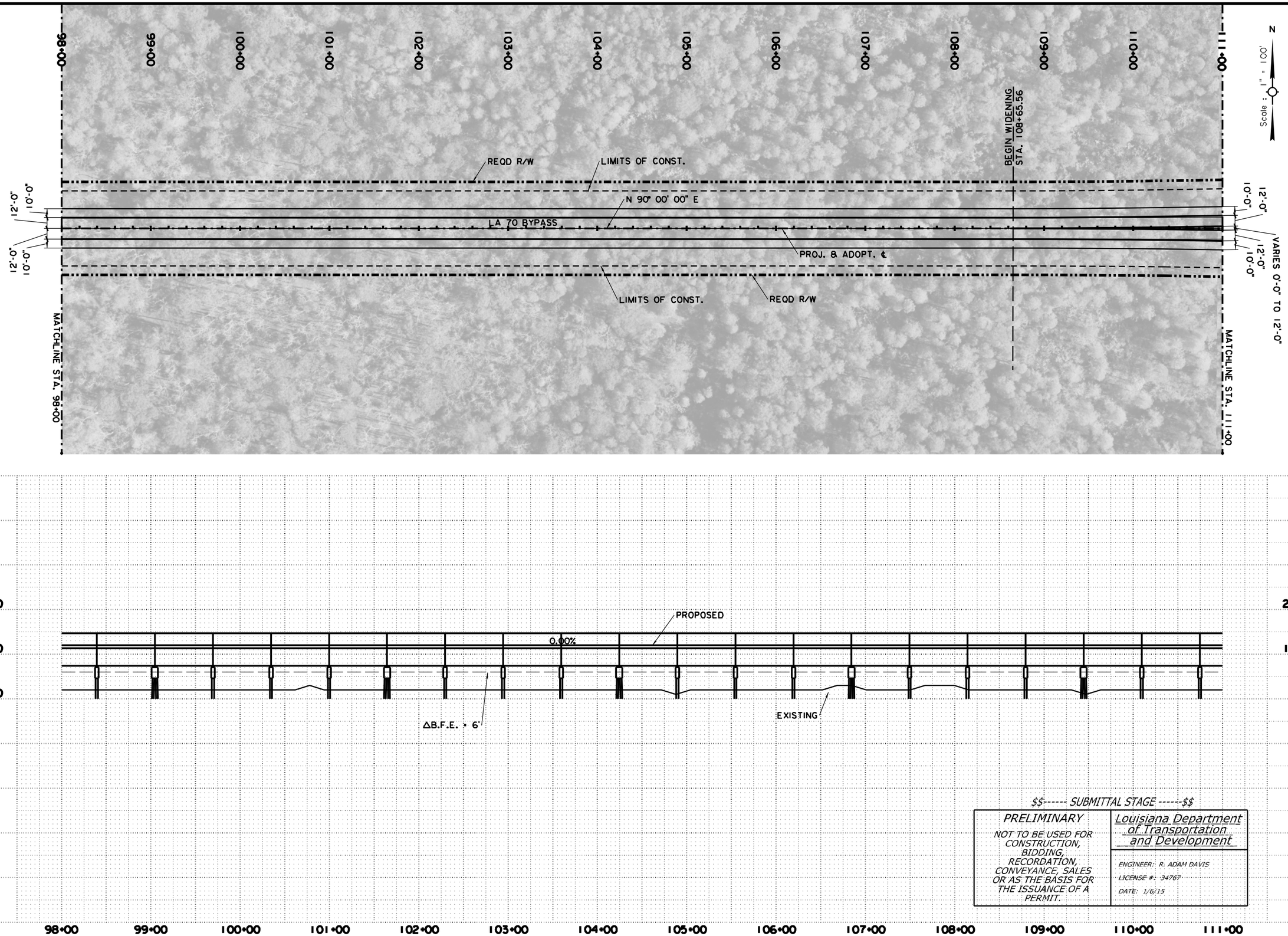
SHEET NUMBER	11
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	8 OF 28

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

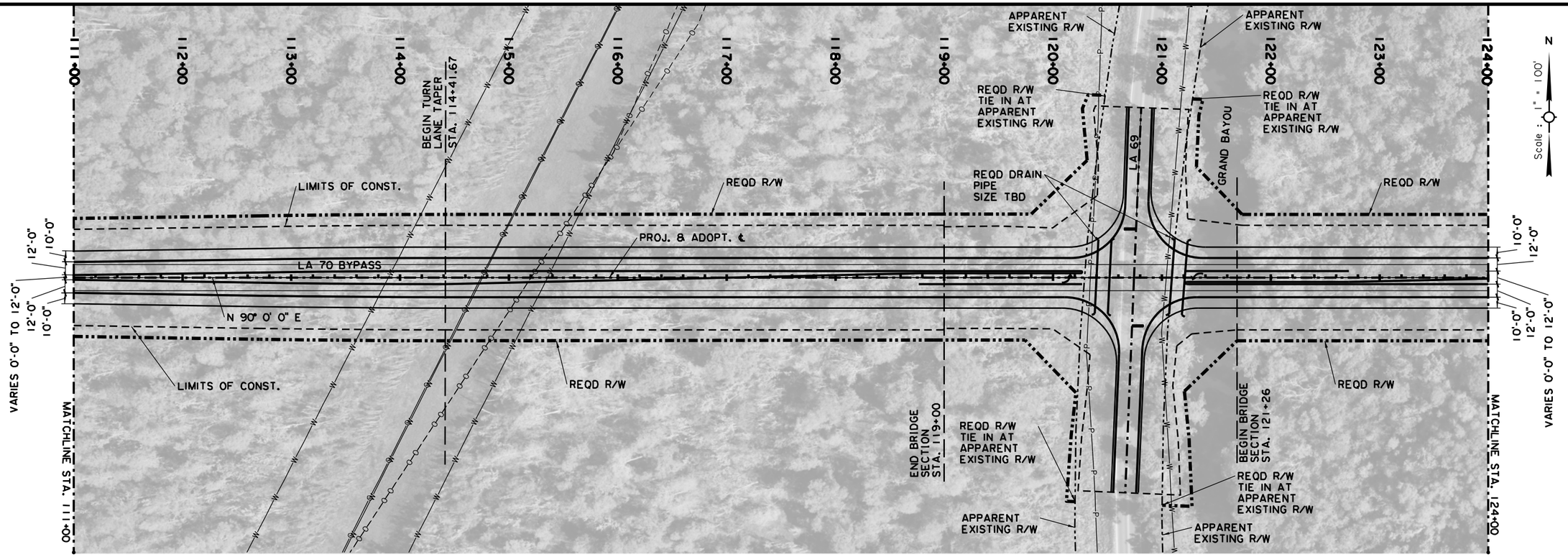
SHEET NUMBER	12
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	9 OF 28

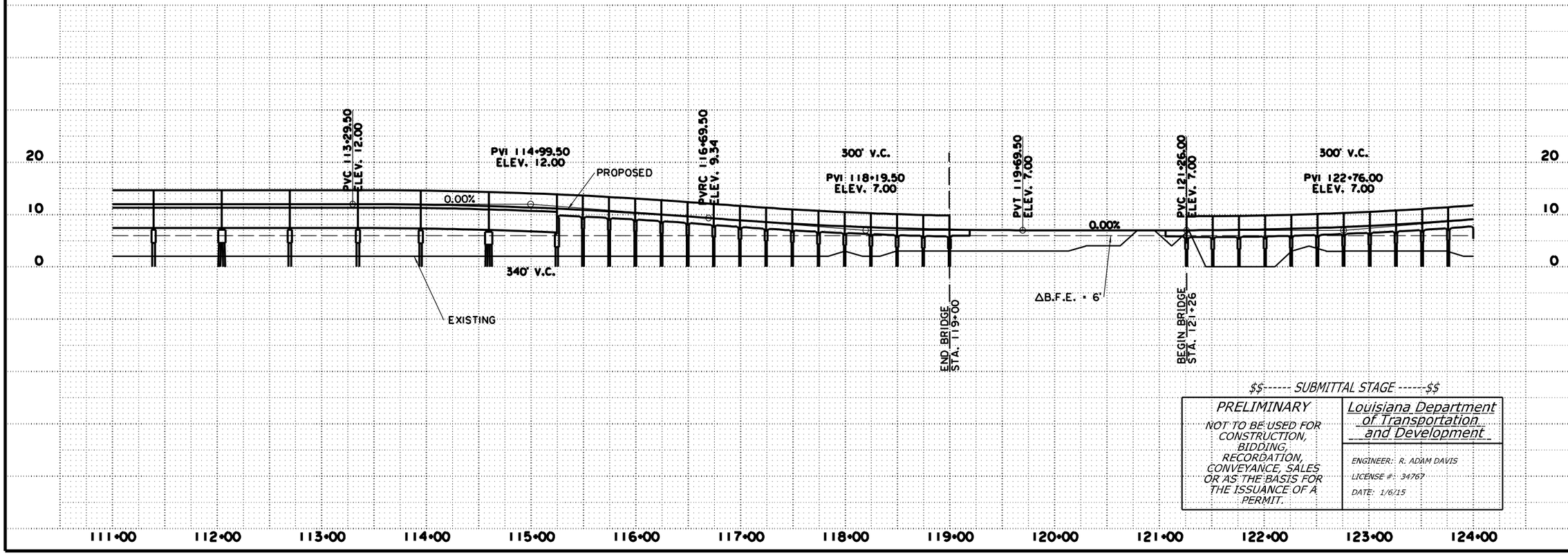
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

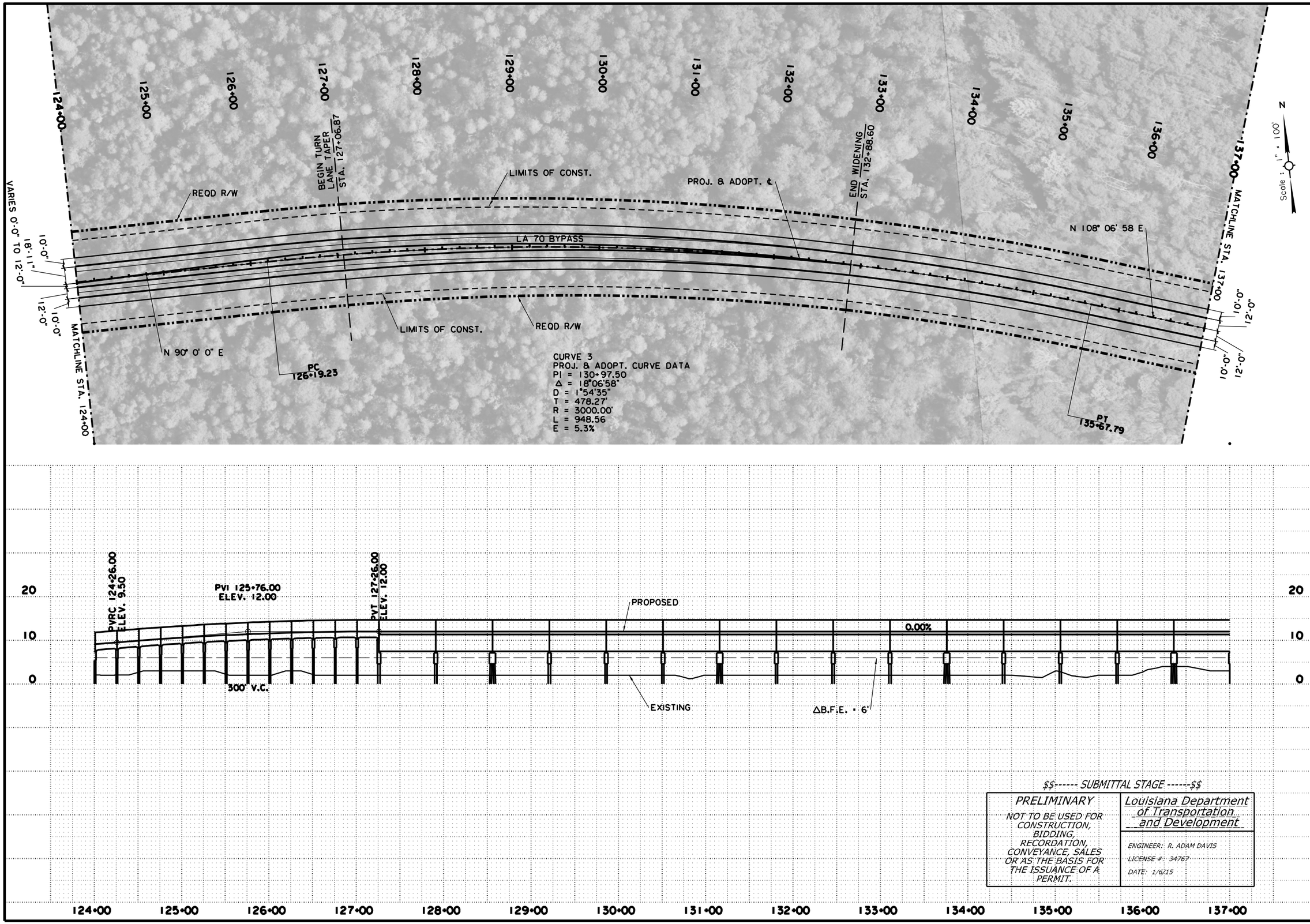
SHEET NUMBER	13
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	10 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

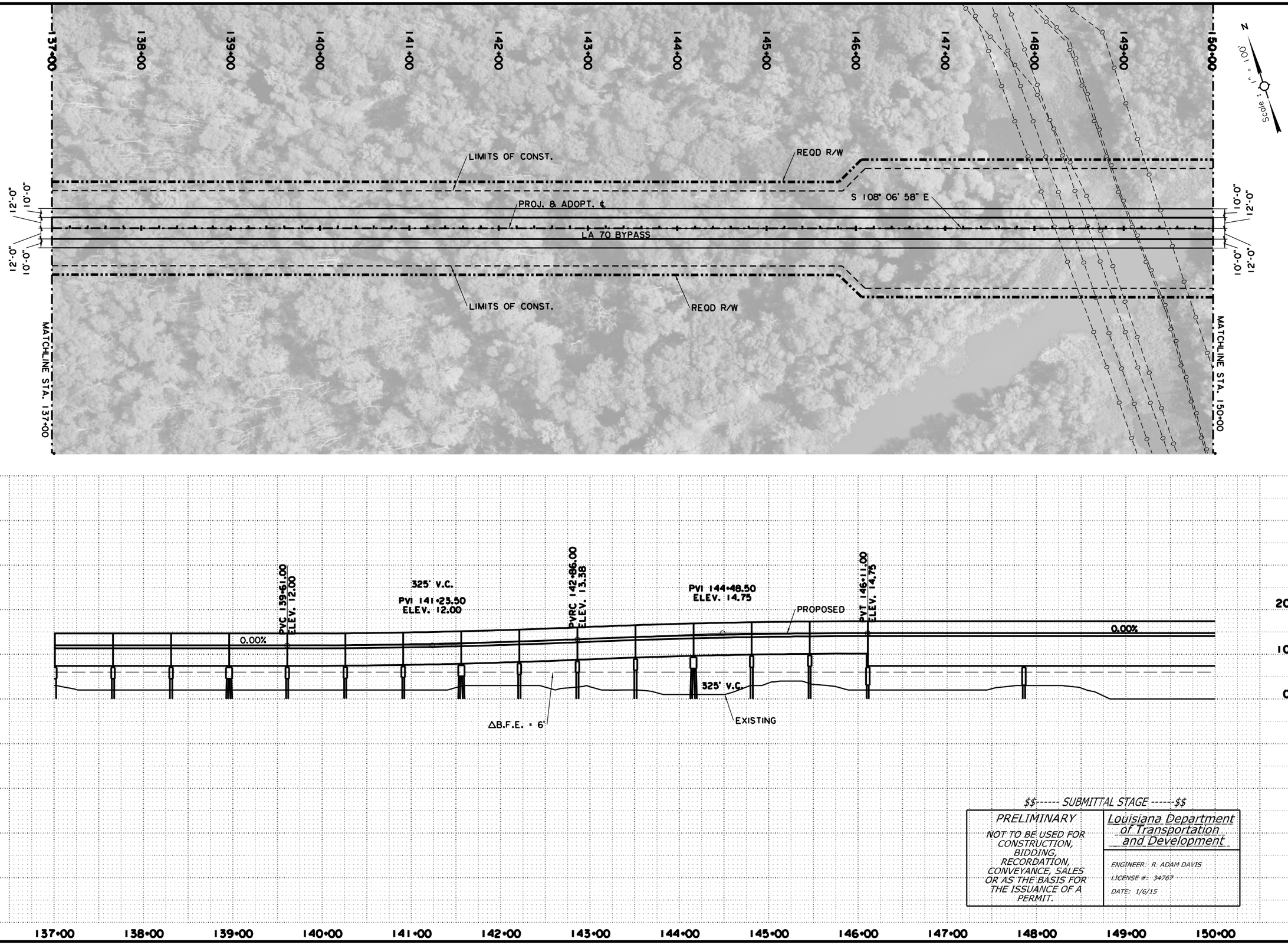
SHEET NUMBER	14
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 11 OF 28

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$----- SUBMITTAL STAGE -----$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

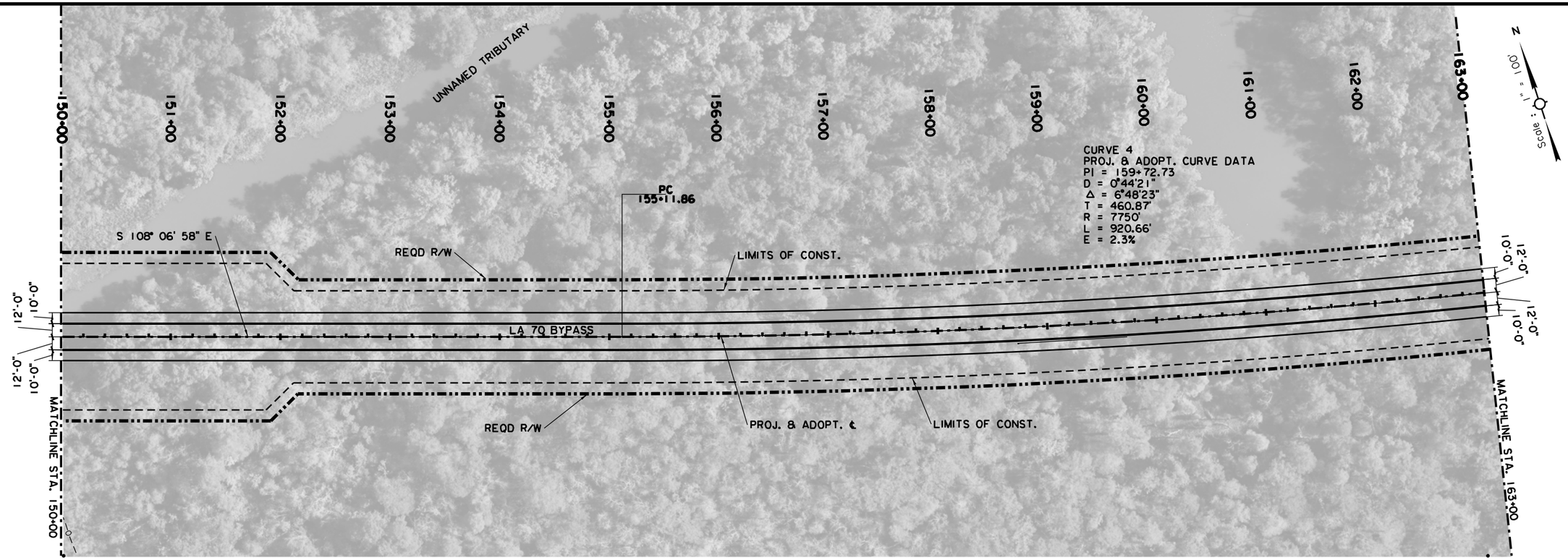
SHEET NUMBER	15
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	12 OF 28

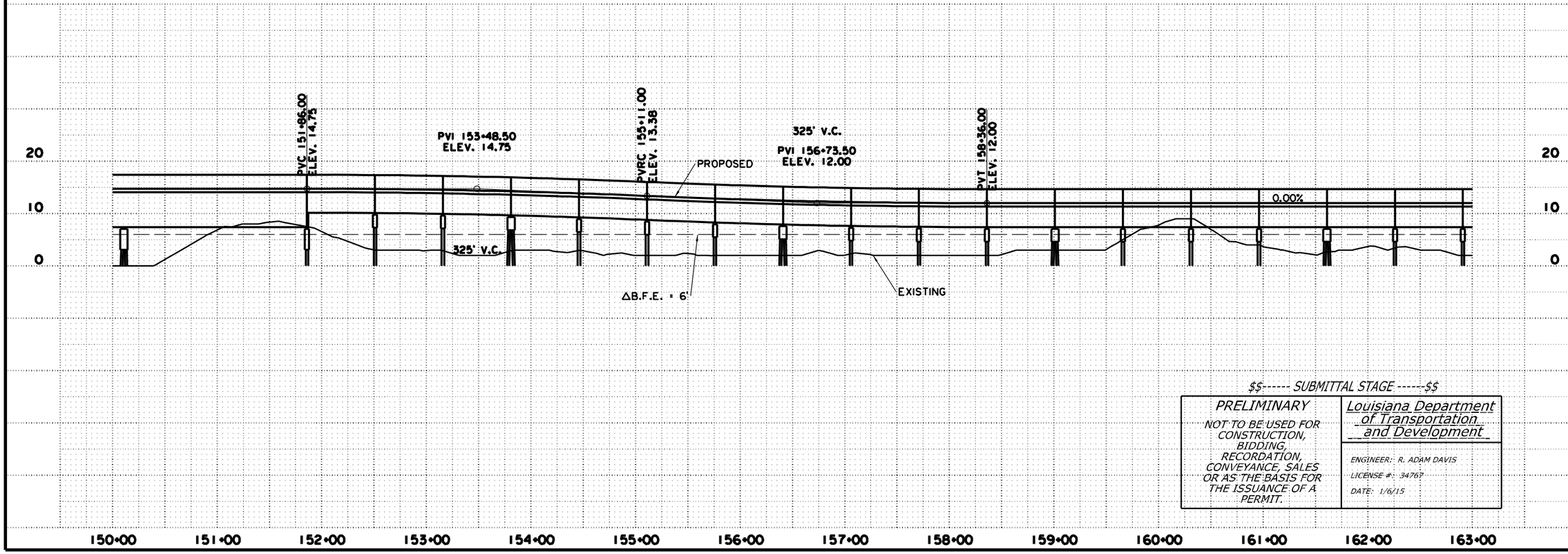
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

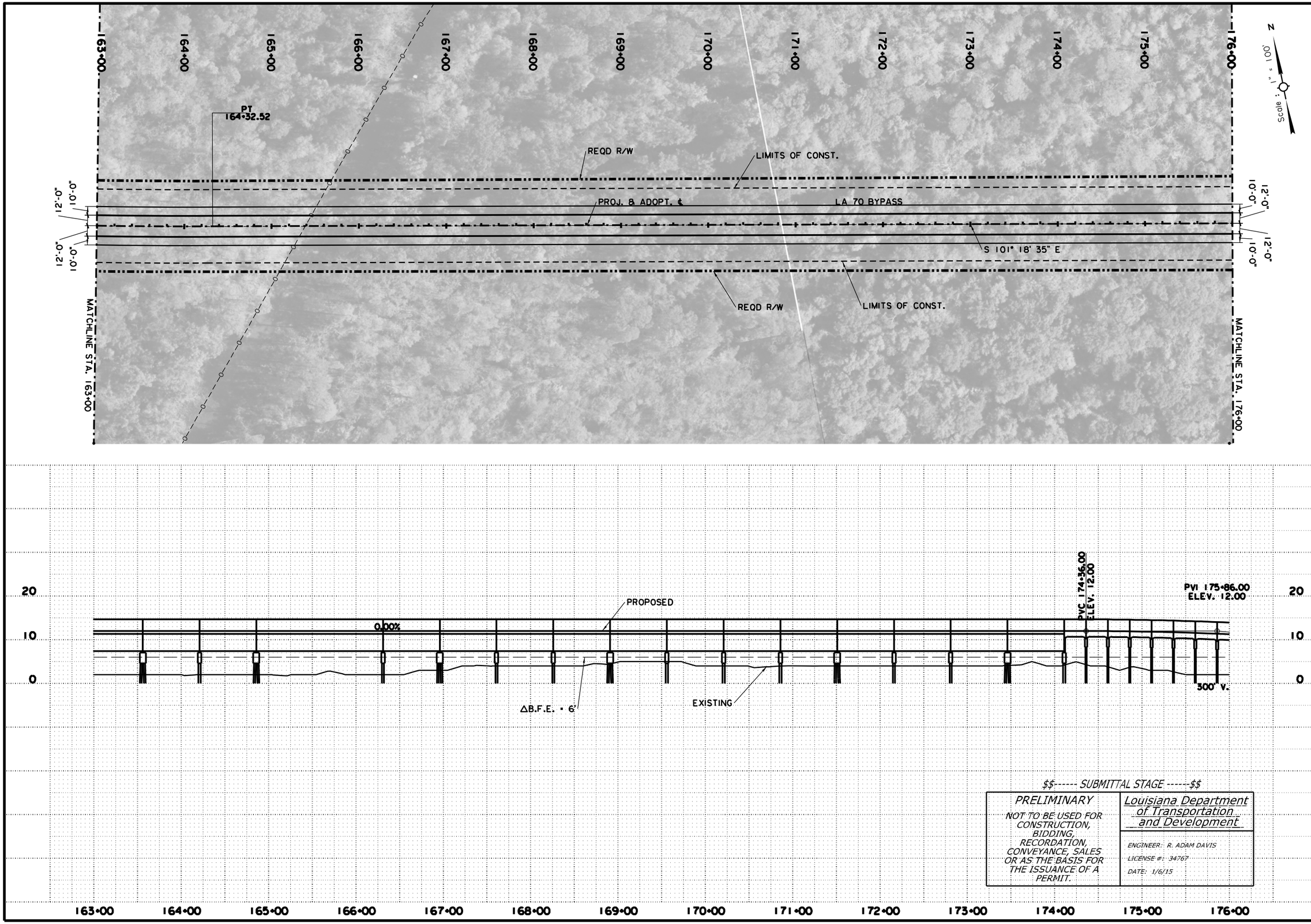
SHEET NUMBER	16
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 13 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

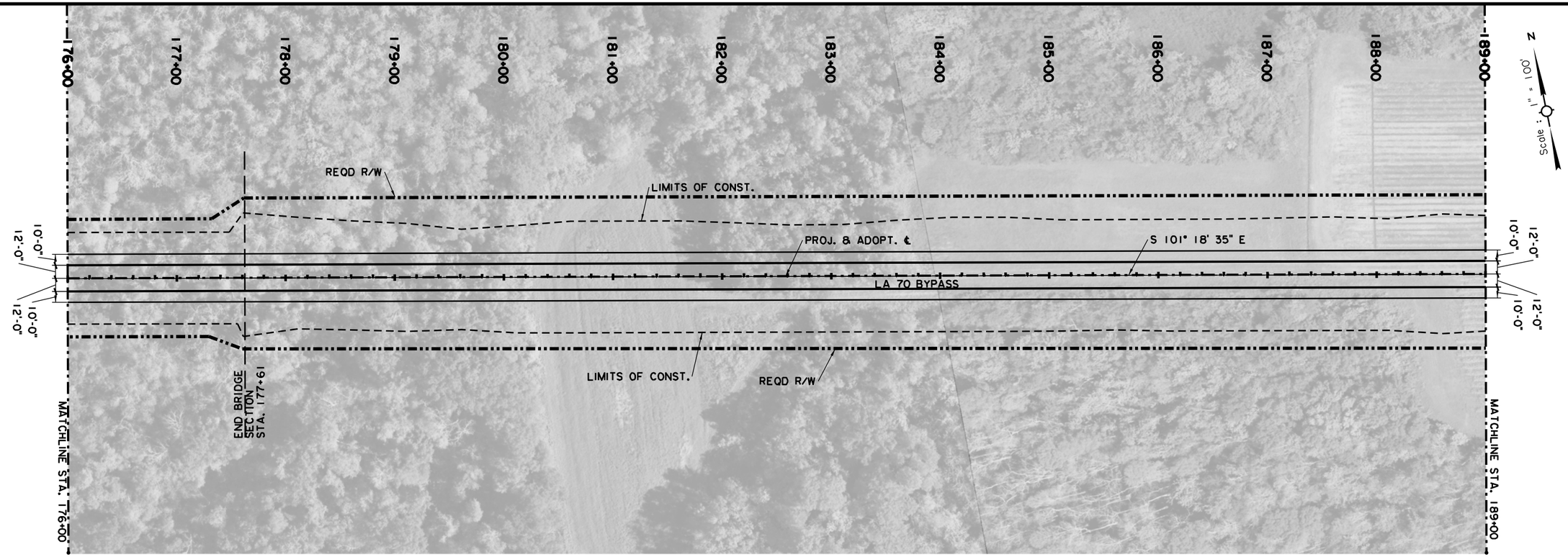
SHEET NUMBER	17
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	14 OF 28

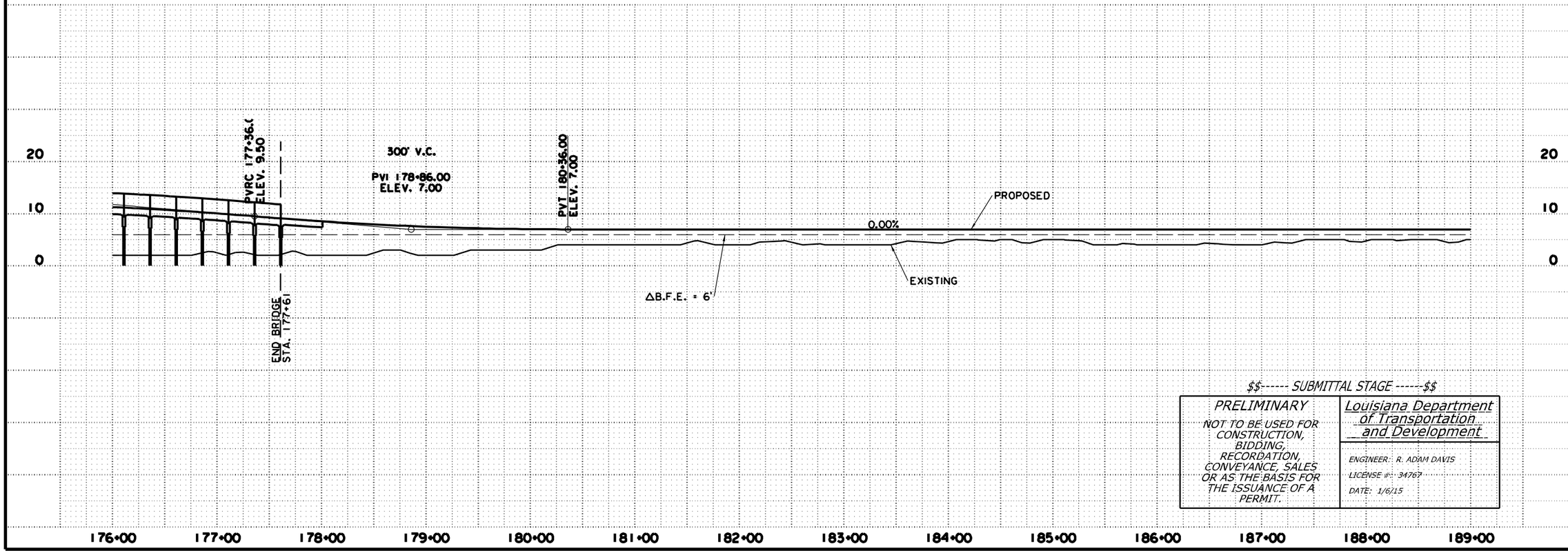
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

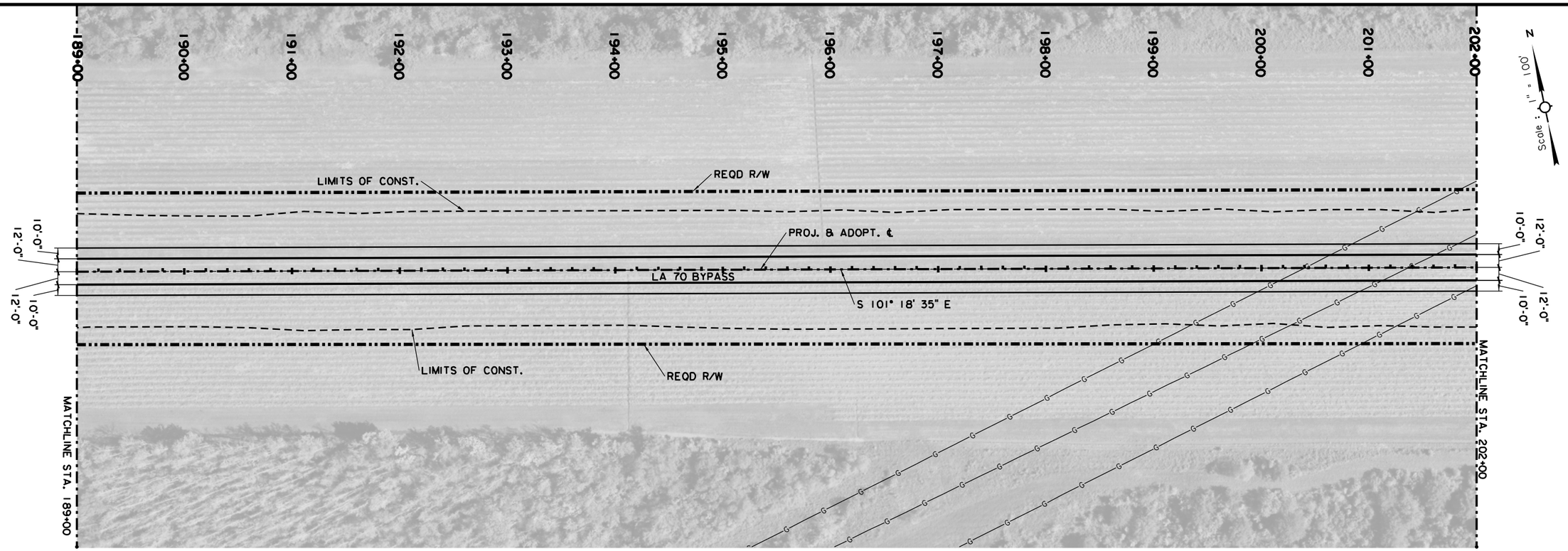
SHEET NUMBER	18
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	15 OF 28

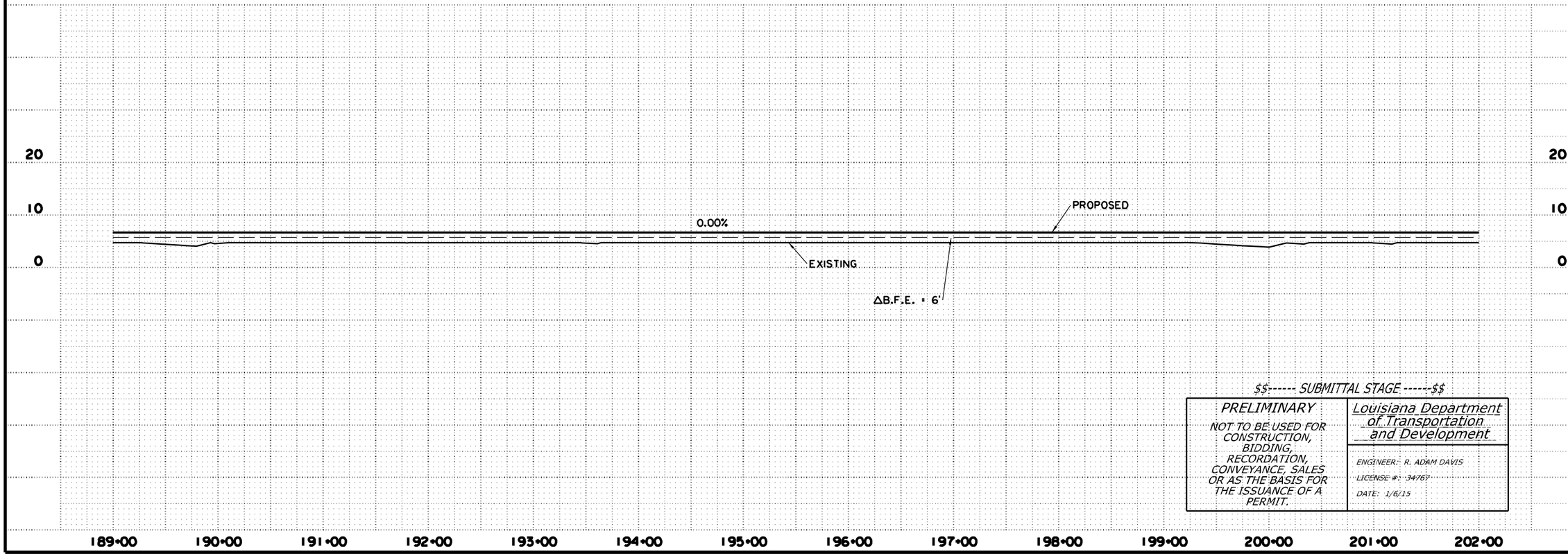
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

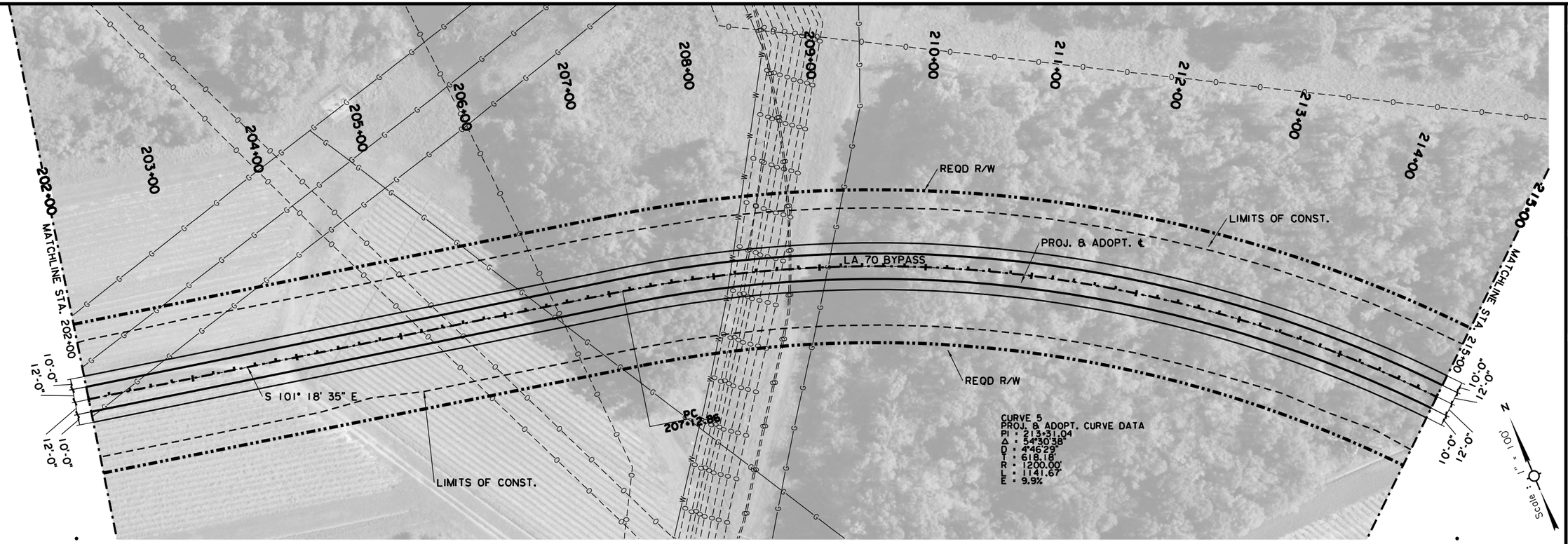
SHEET NUMBER	19
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	16 OF 28

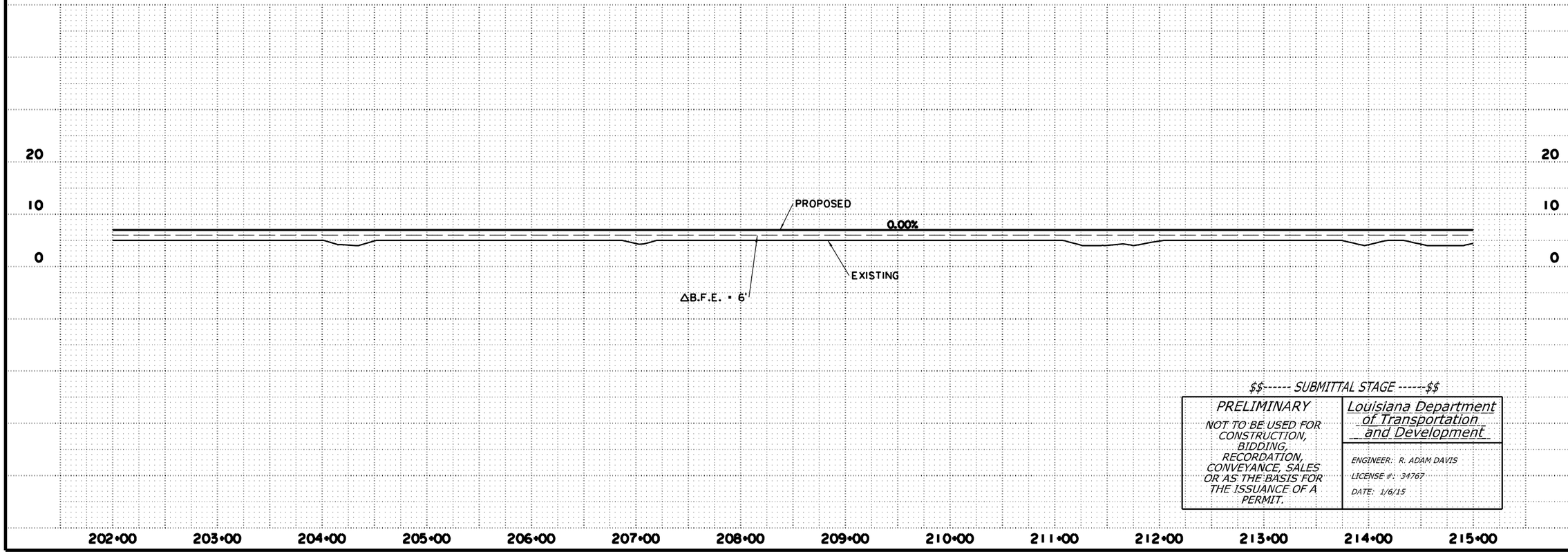
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

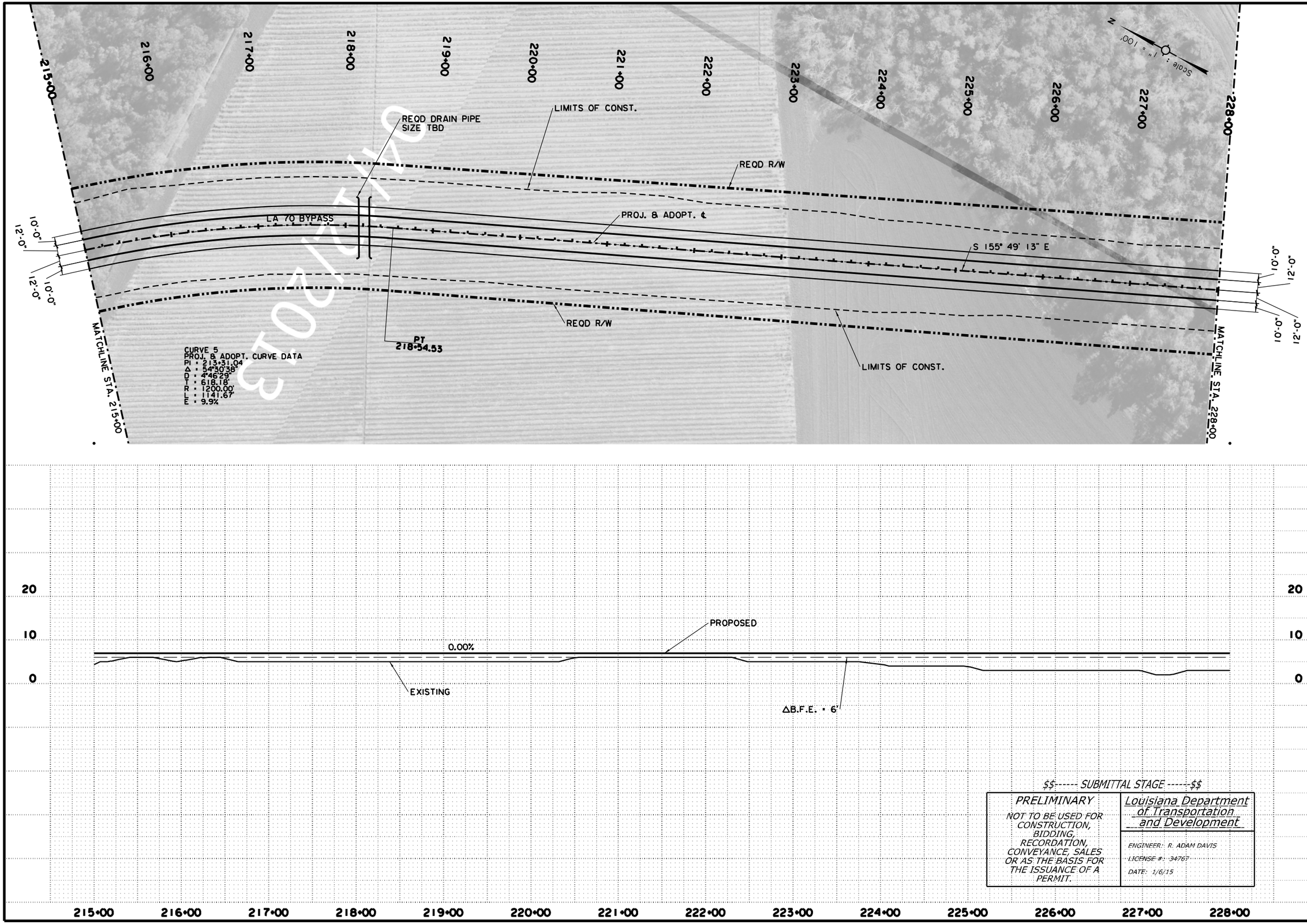
SHEET NUMBER	20
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	17 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE

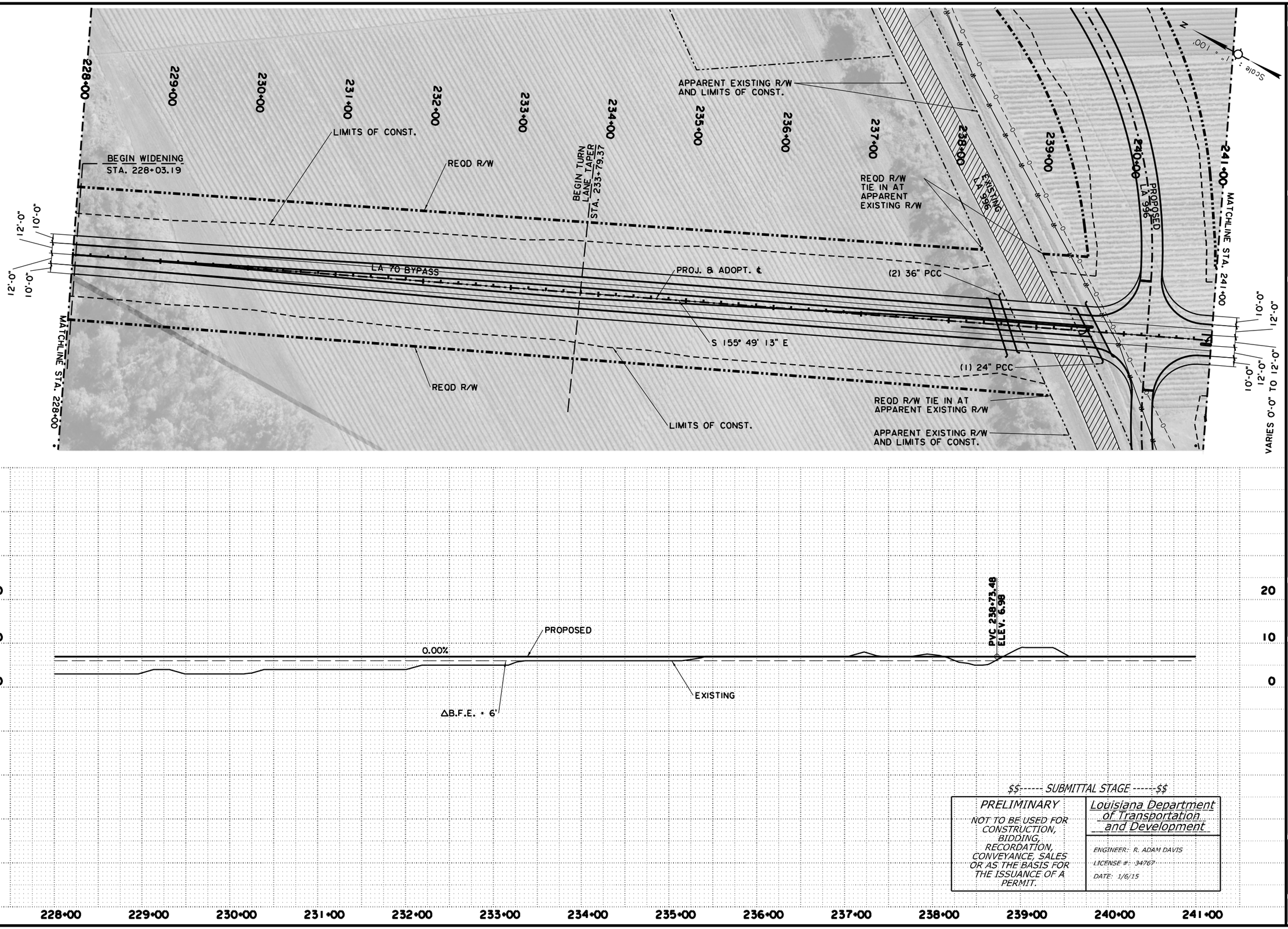


SHEET NUMBER	21
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	18 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET



$$----- SUBMITTAL STAGE -----$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

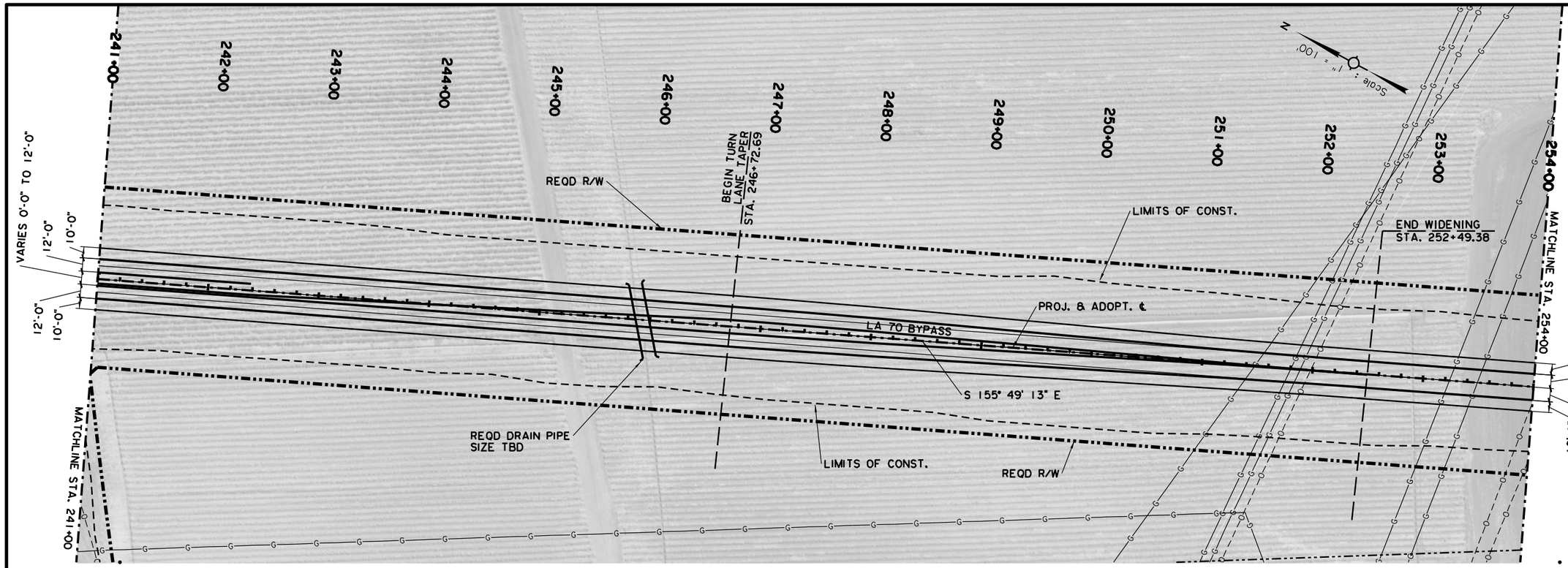
SHEET NUMBER	22
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	19 OF 28

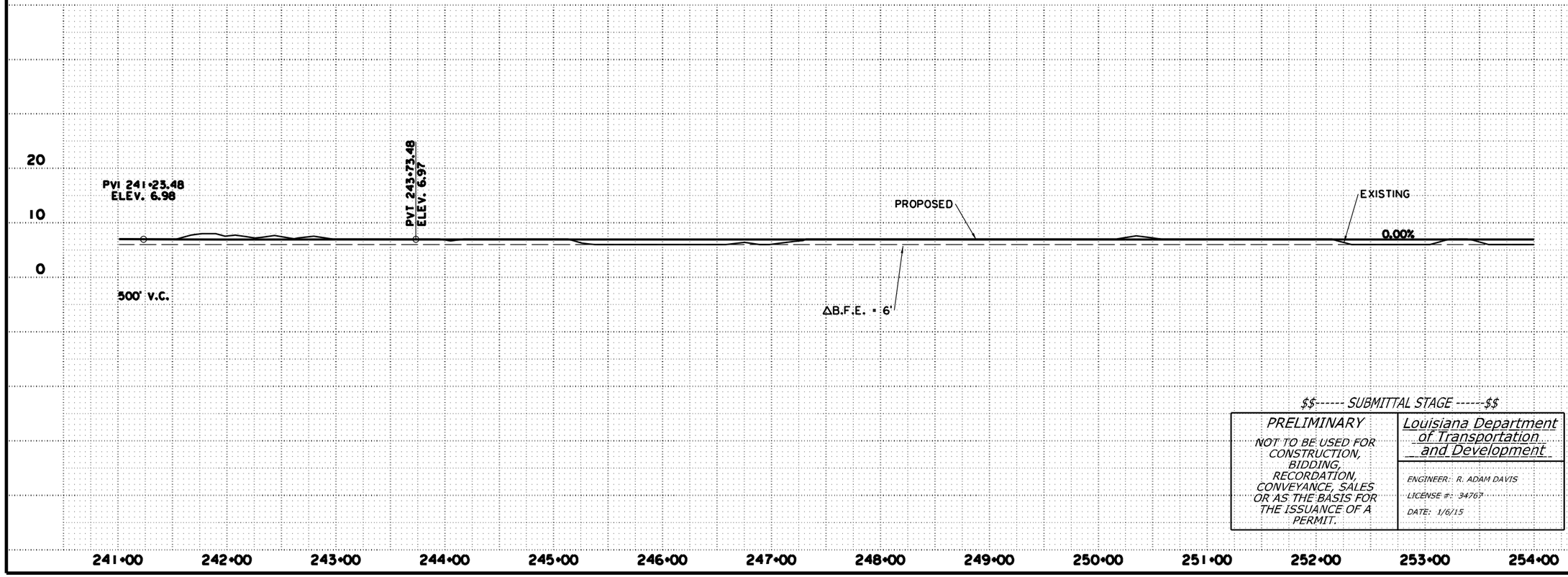
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 23

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

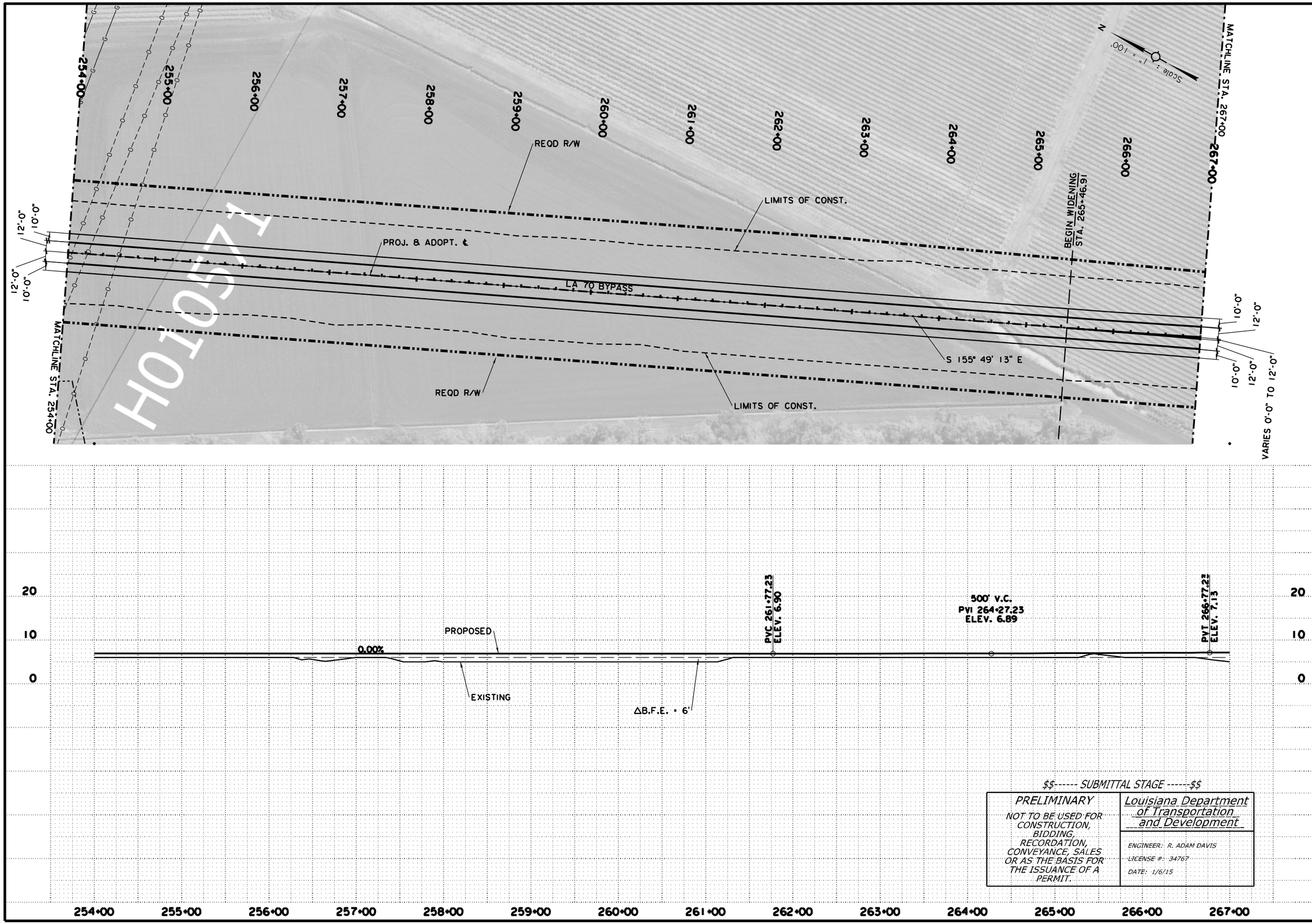
DESIGNED JPS
CHECKED RAD
DETAILED JPS
CHECKED RAD
DATE JAN 2015
SHEET 20 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 24

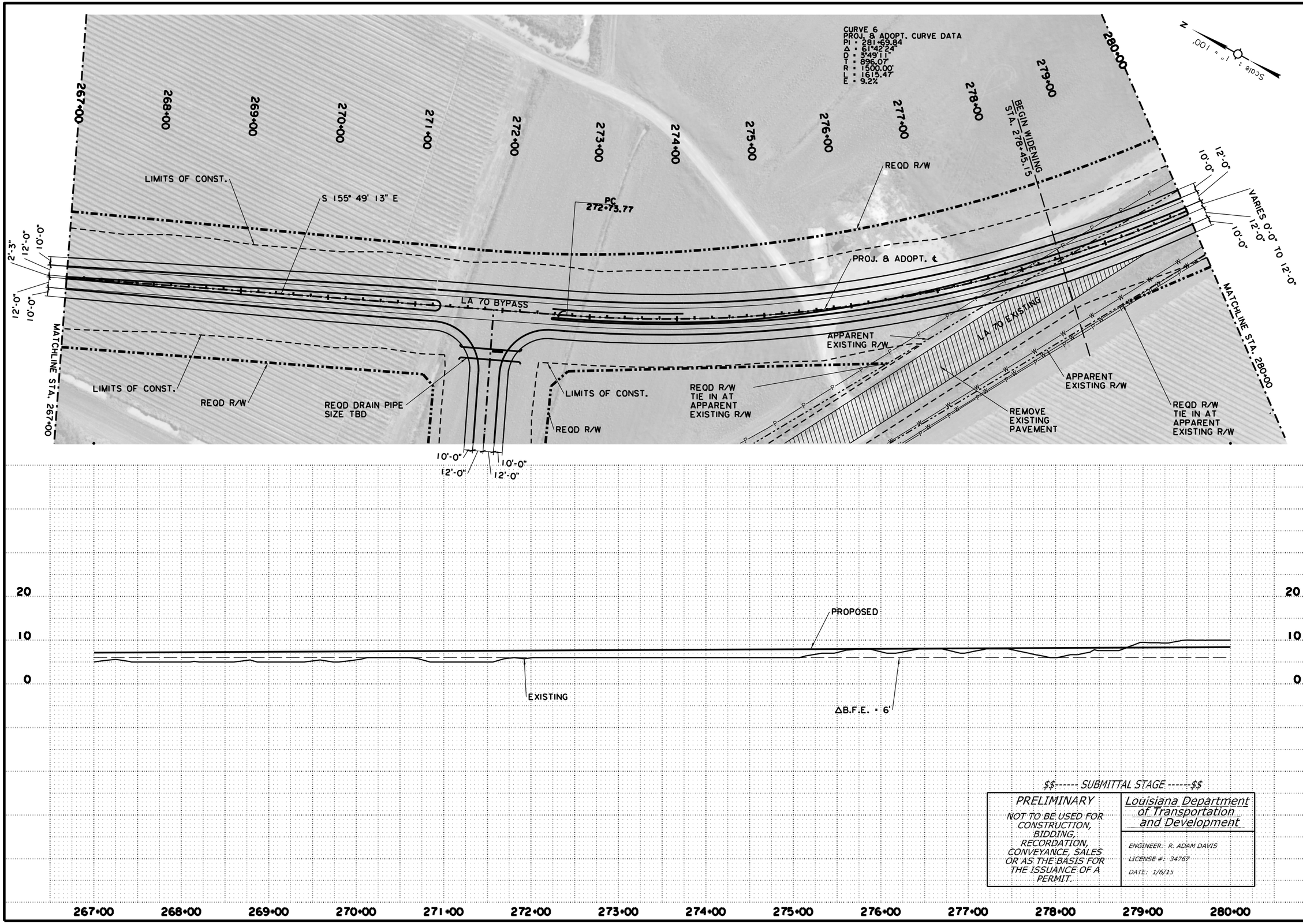
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED JPS / CHECKED RAD	
DETAILED JPS / CHECKED RAD	
DATE JAN 2015 / SHEET 21 OF 28	

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

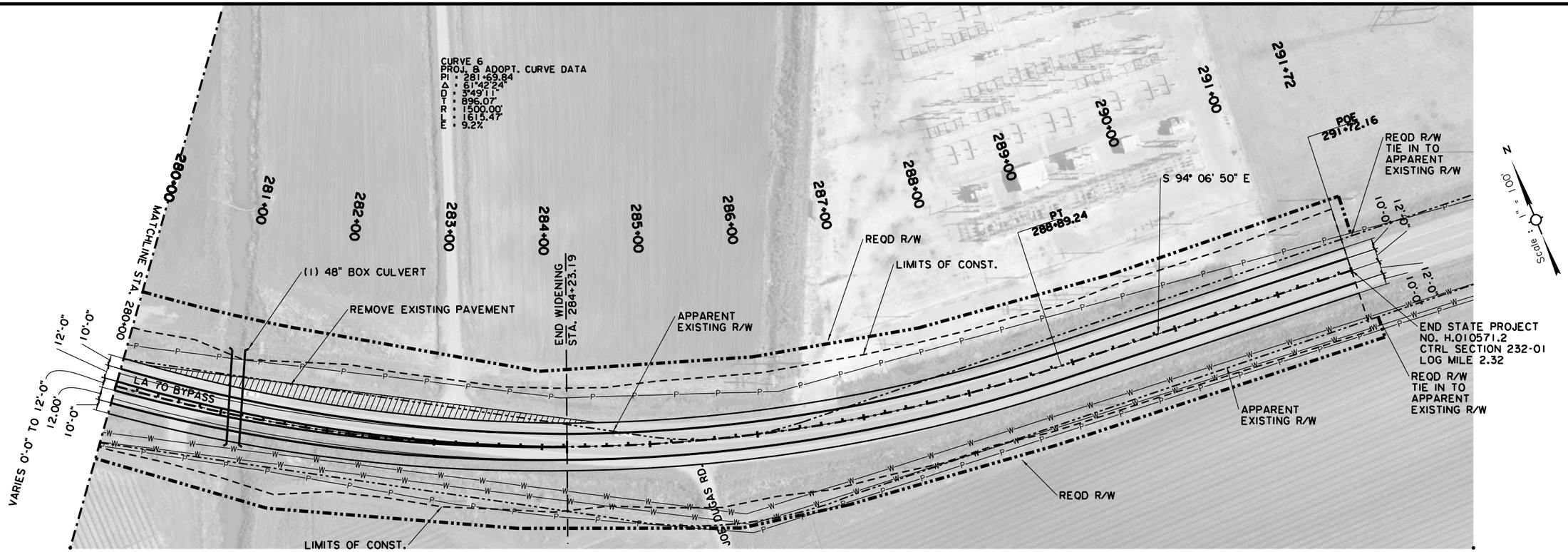
SHEET NUMBER	25
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 22 OF 28

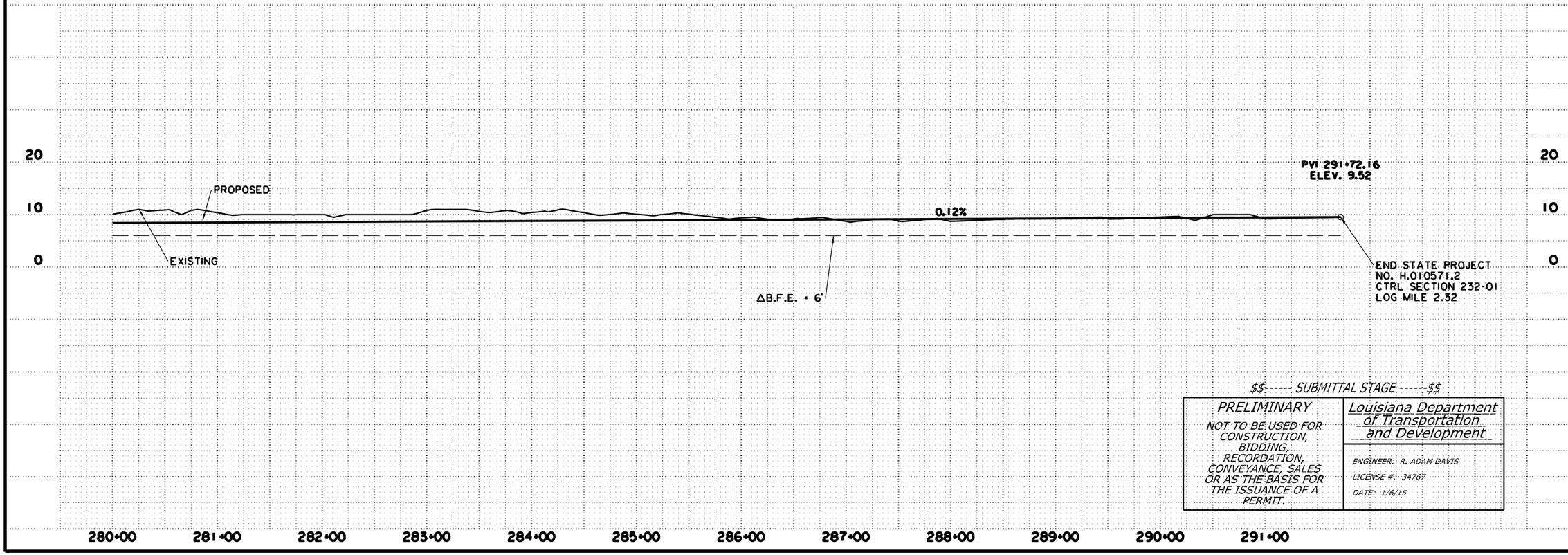
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

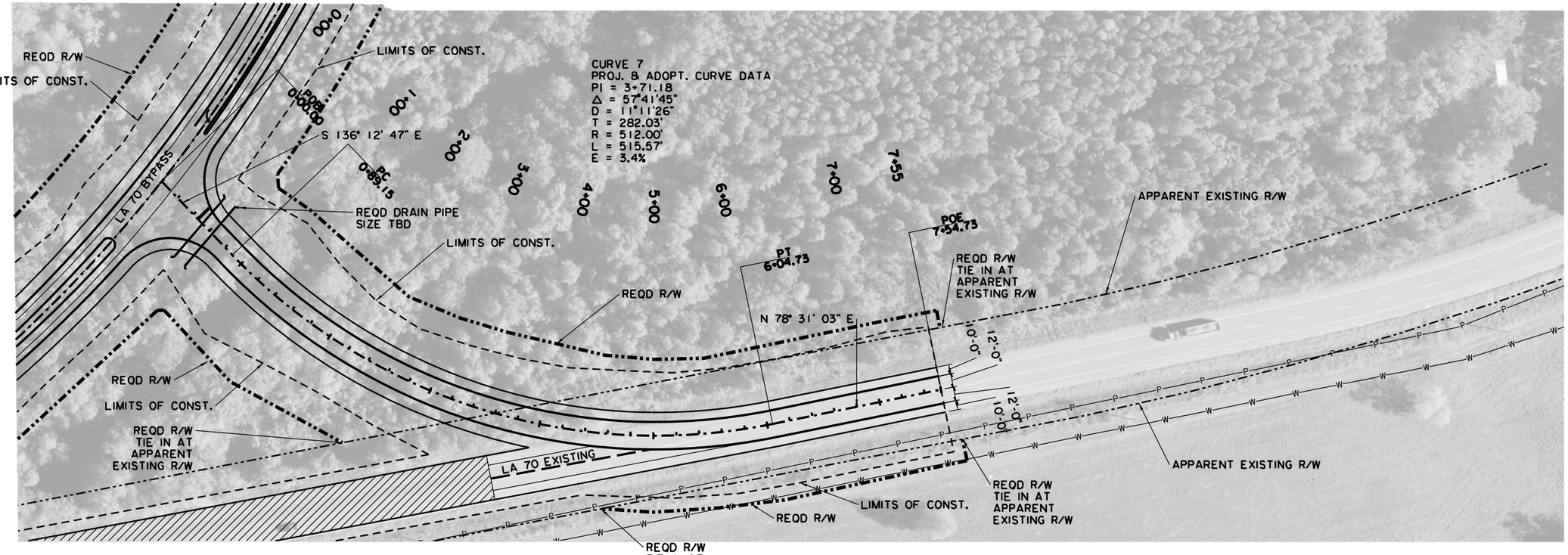
SHEET NUMBER	26
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	23 OF 28

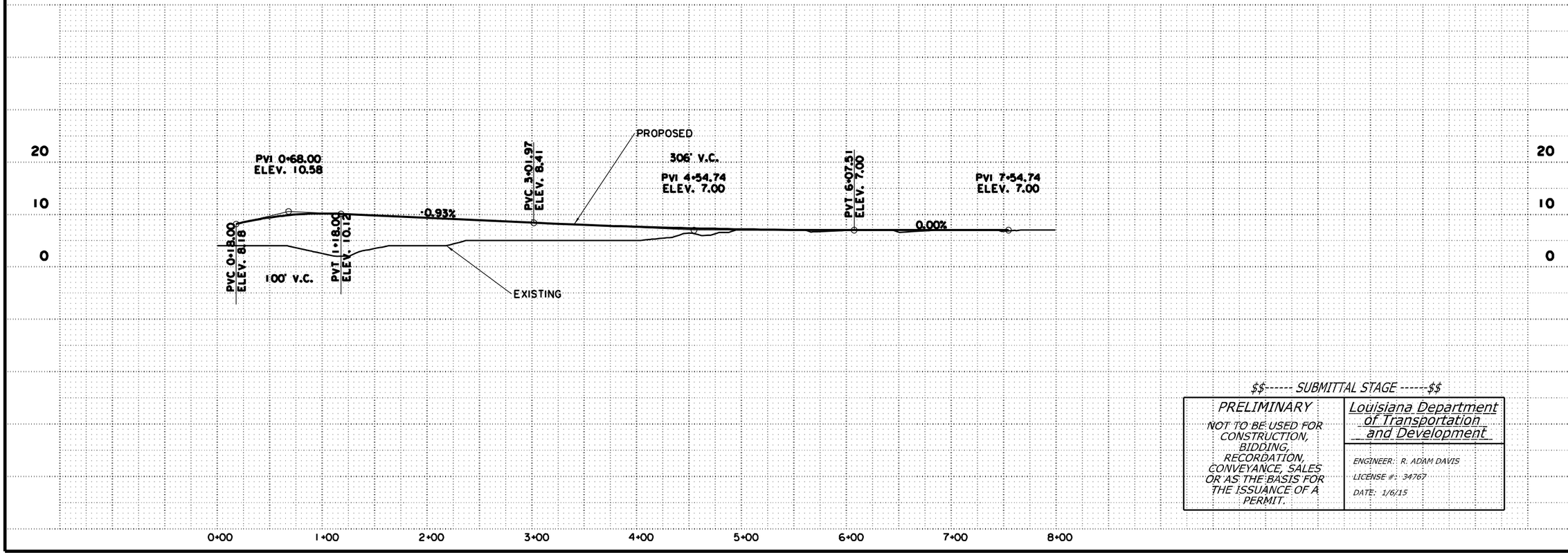
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

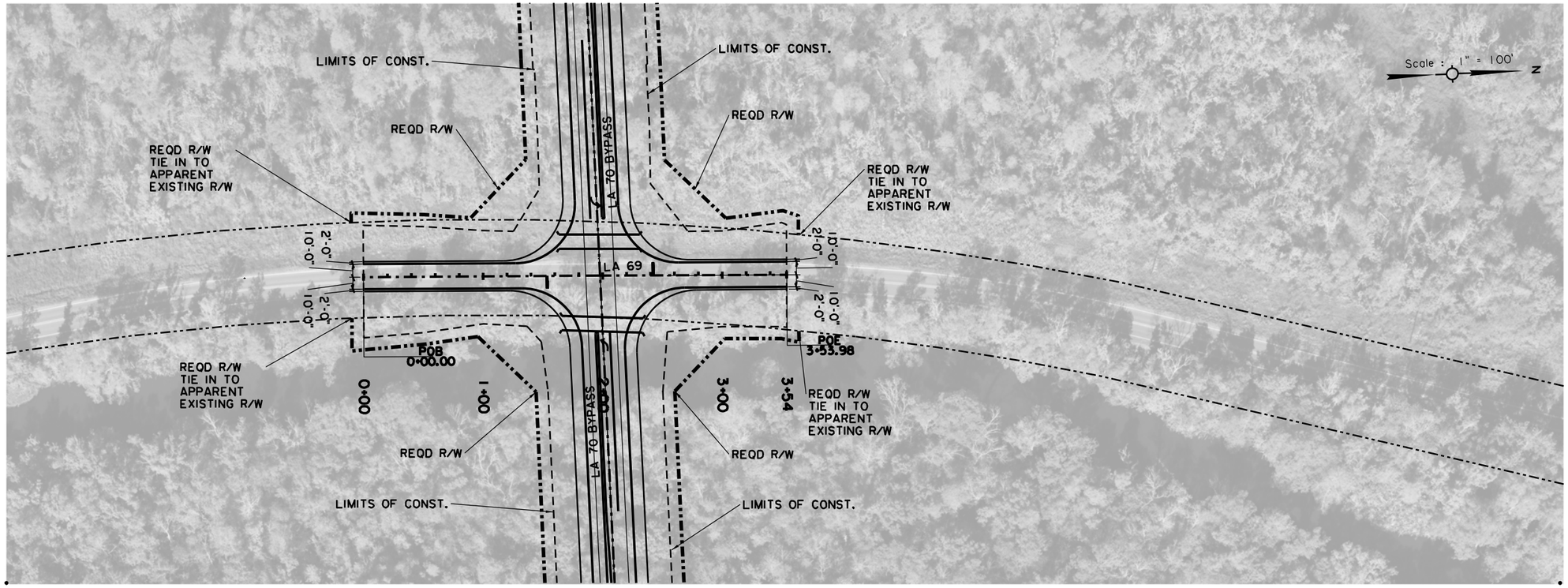
SHEET NUMBER	27
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	24 OF 28

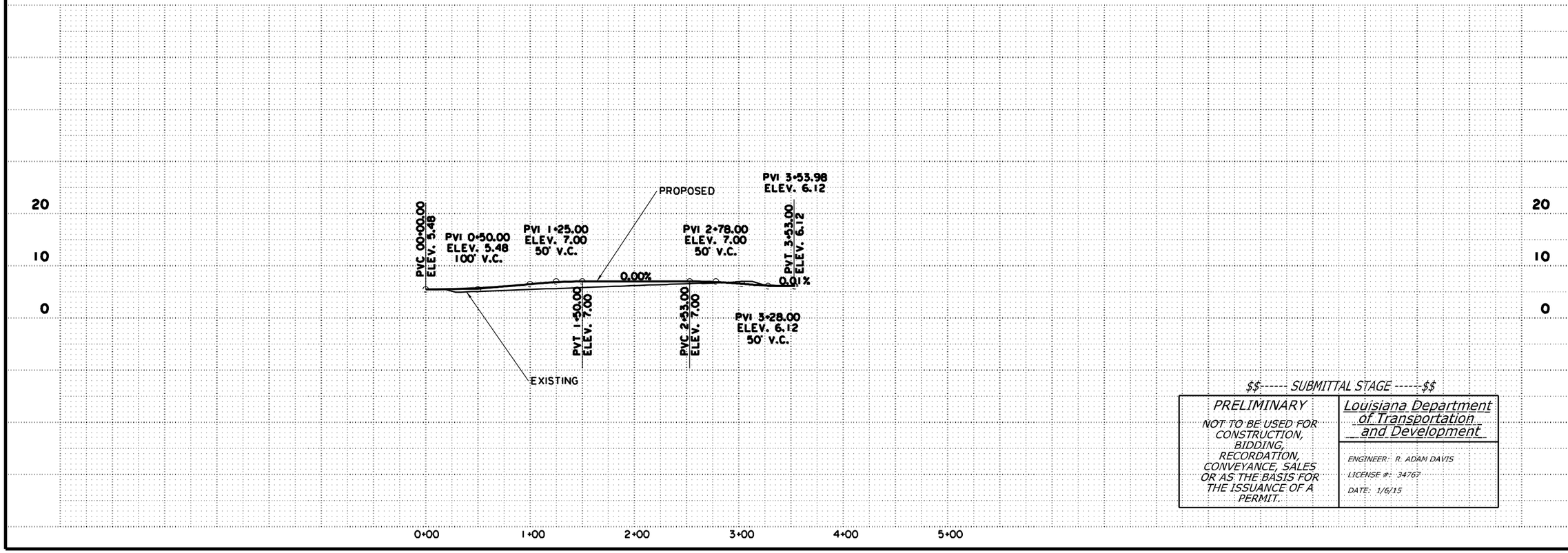
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

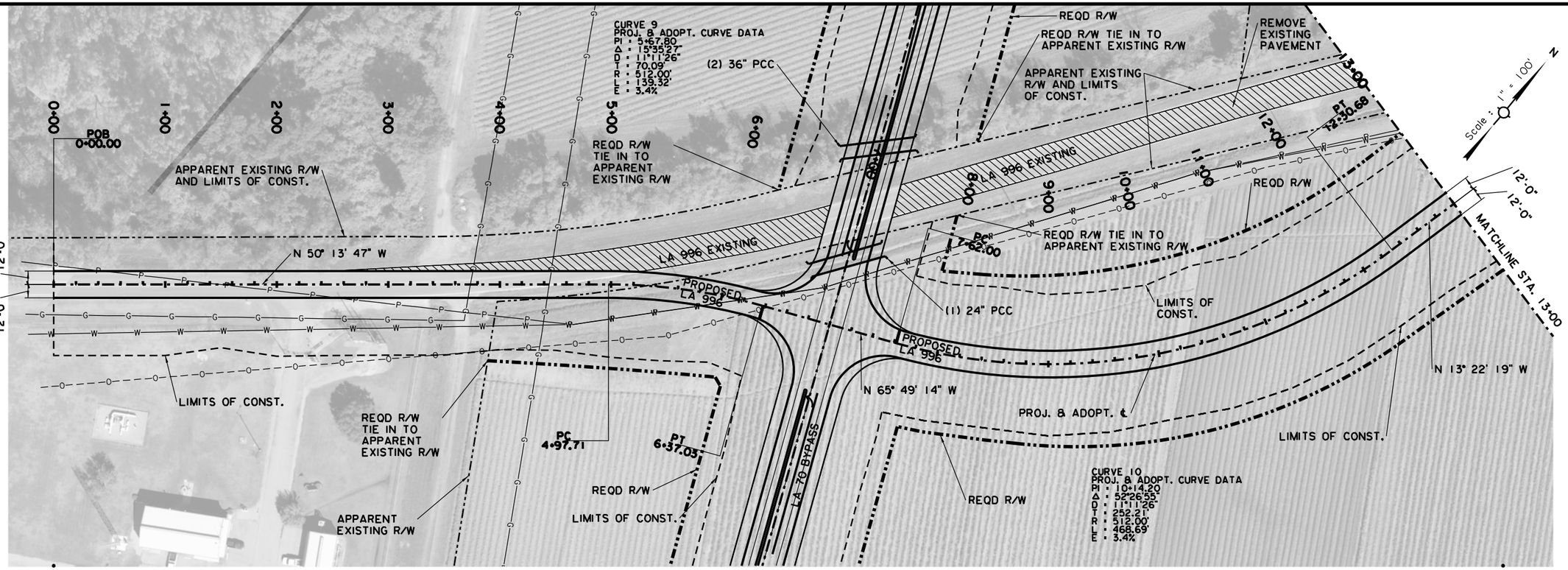
SHEET NUMBER	28
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	25 OF 28

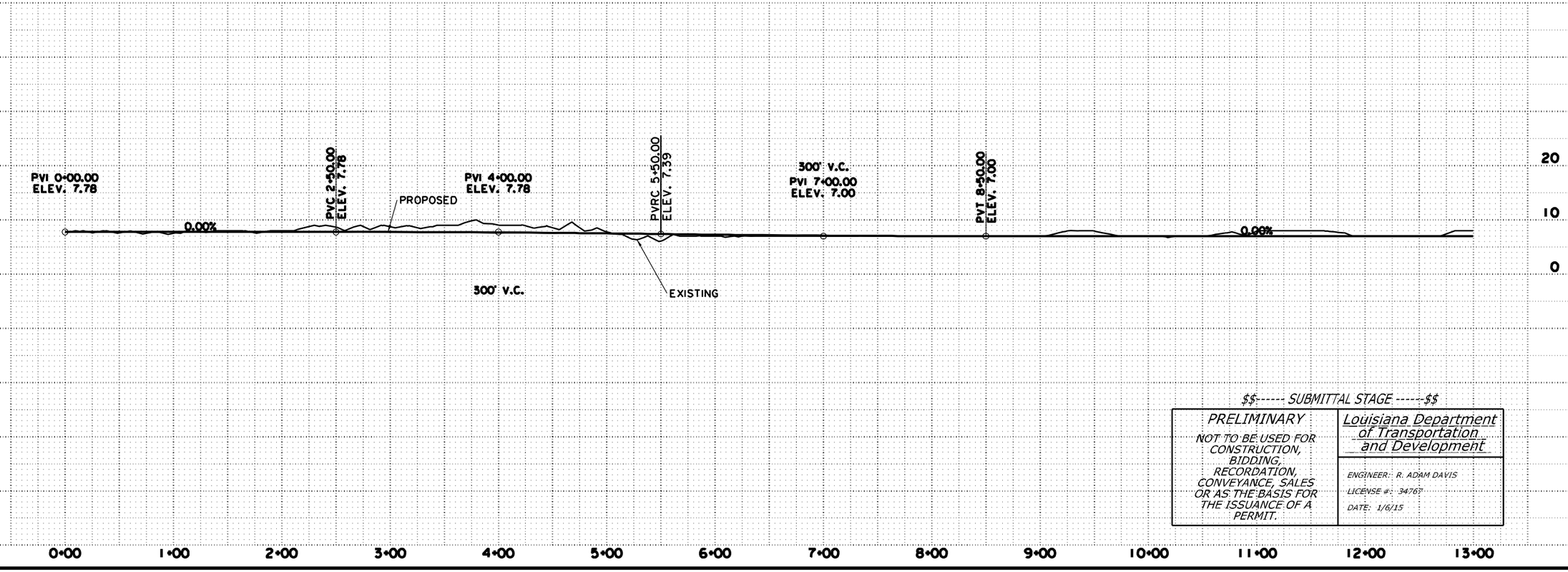
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

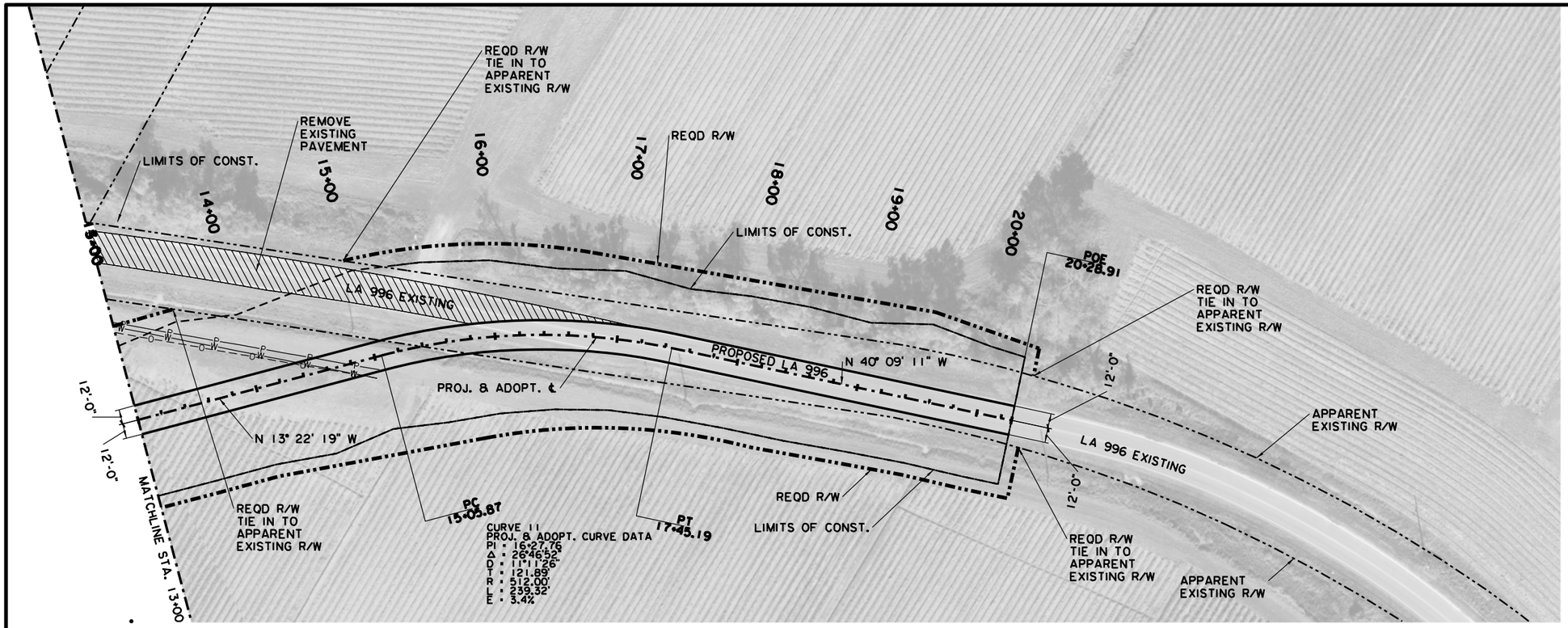
SHEET NUMBER	29
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 26 OF 28

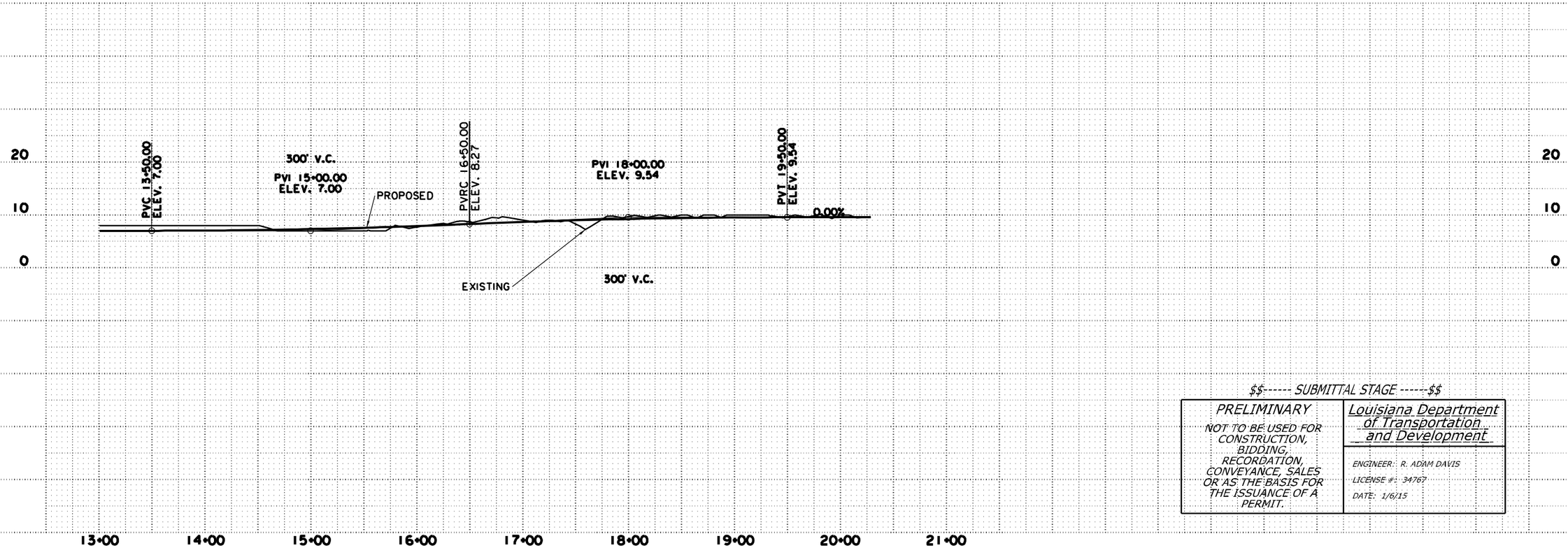
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 30

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

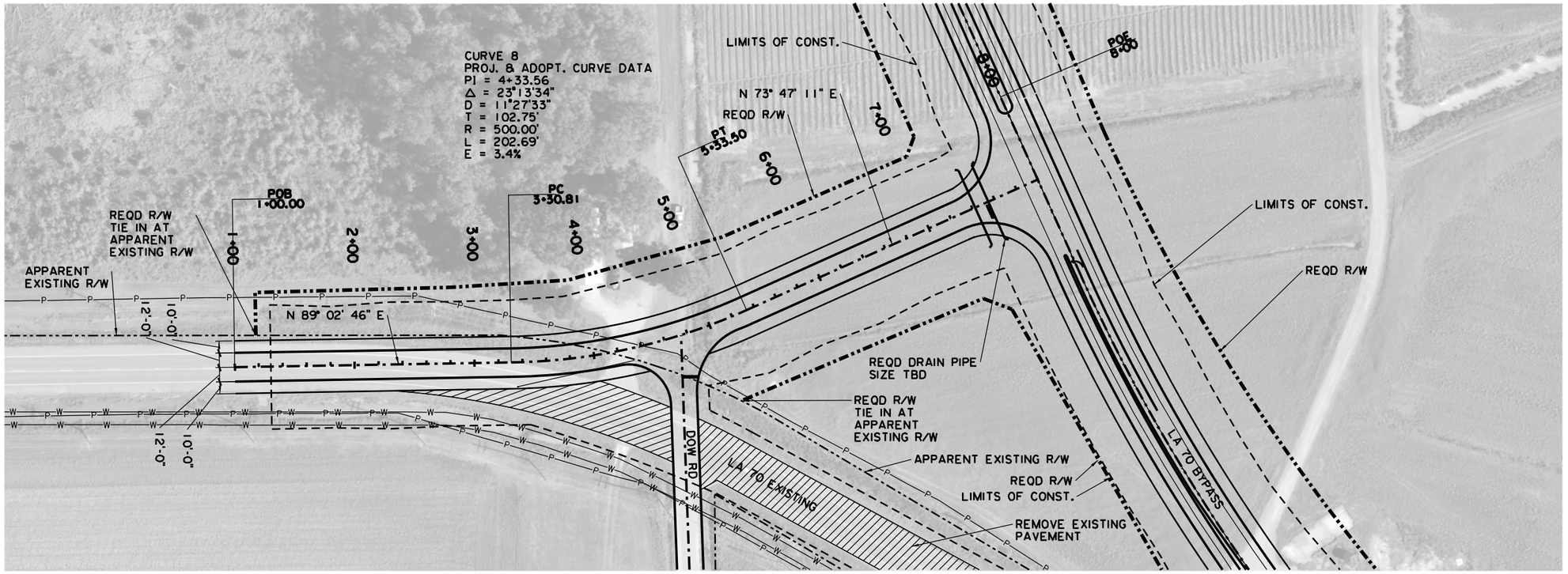
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 27 OF 28

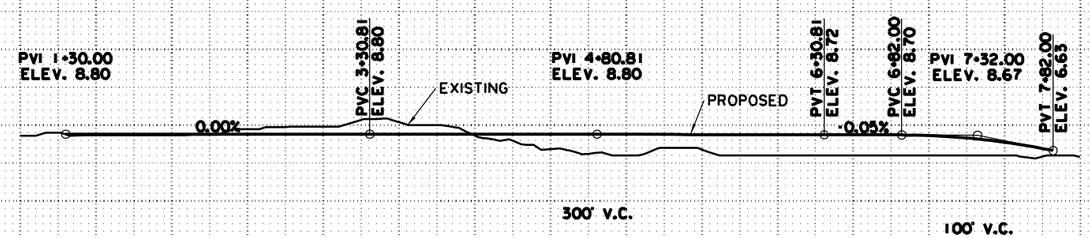
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

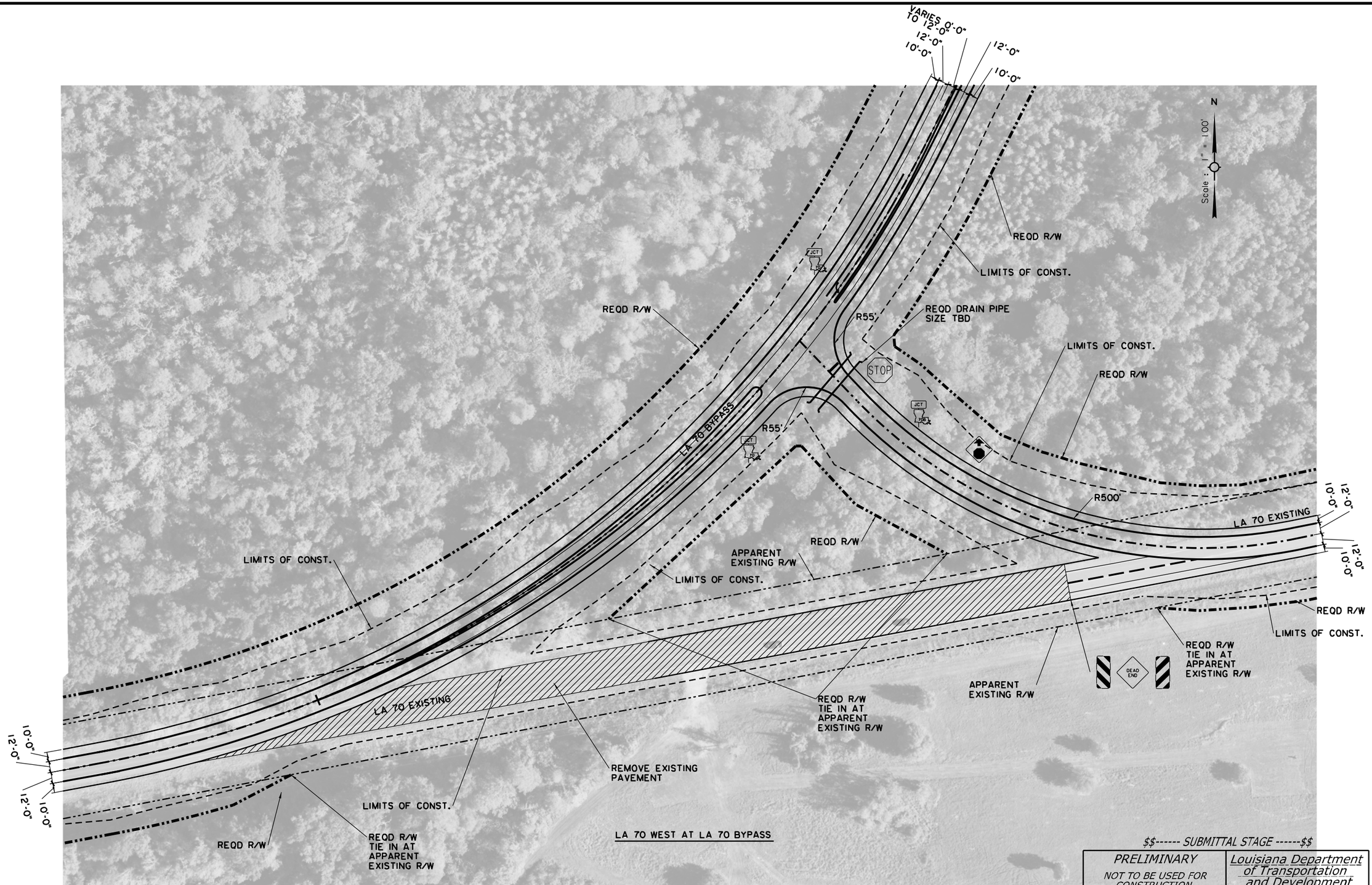
SHEET NUMBER	31
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	28 OF 28

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 3

PLAN PROFILE SHEET

PROVIDENCE



LA 70 WEST AT LA 70 BYPASS

NOTE: LA 70B = LA 70 BYPASS

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 32

PARISH: ASSUMPTION

FEDERAL PROJECT: H010571

STATE PROJECT: H.010571.2

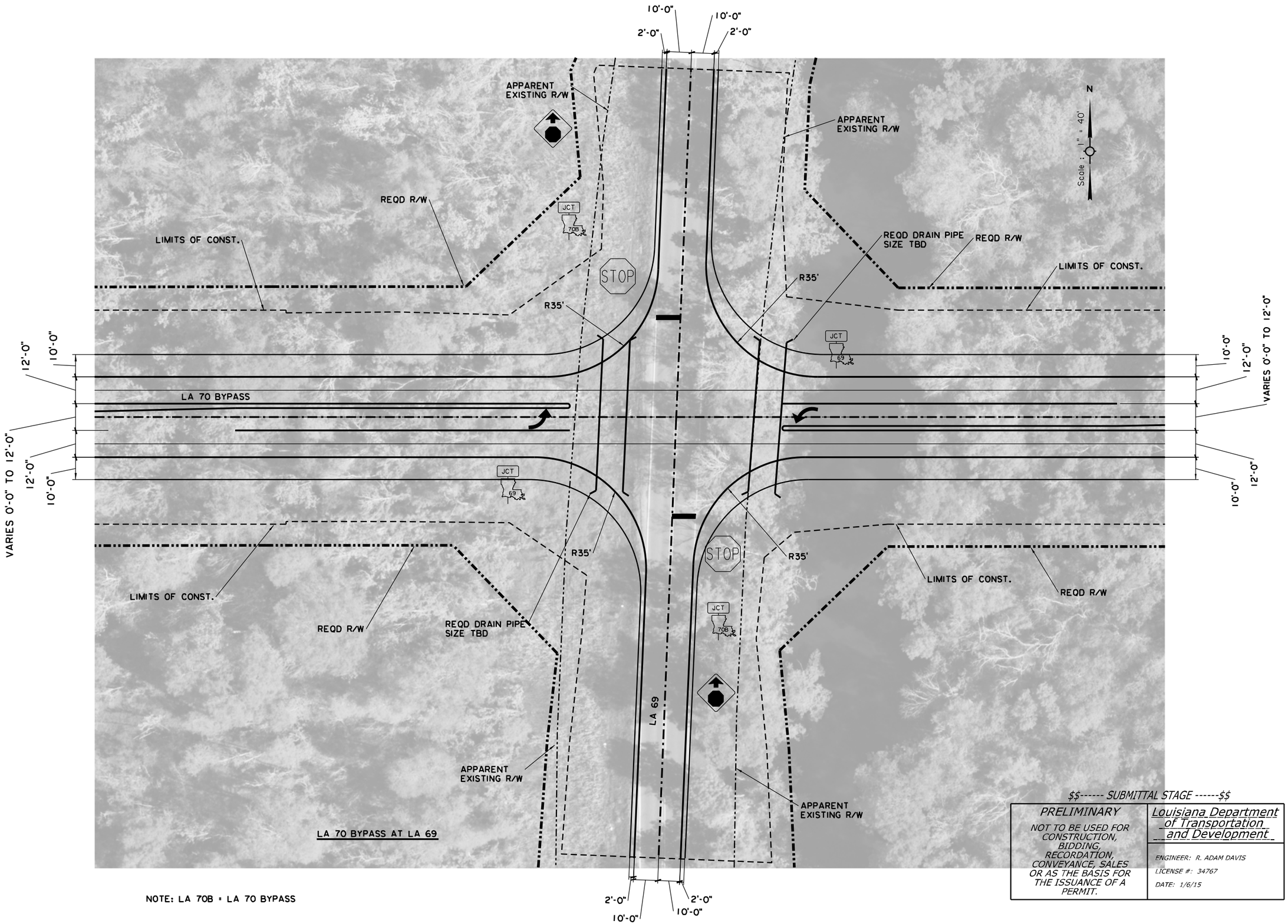
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 1 OF 4

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS
ALTERNATIVE 3

INTERSECTION LAYOUT

PROVIDENCE



NOTE: LA 70B = LA 70 BYPASS

$$------ SUBMITTAL STAGE ------$$

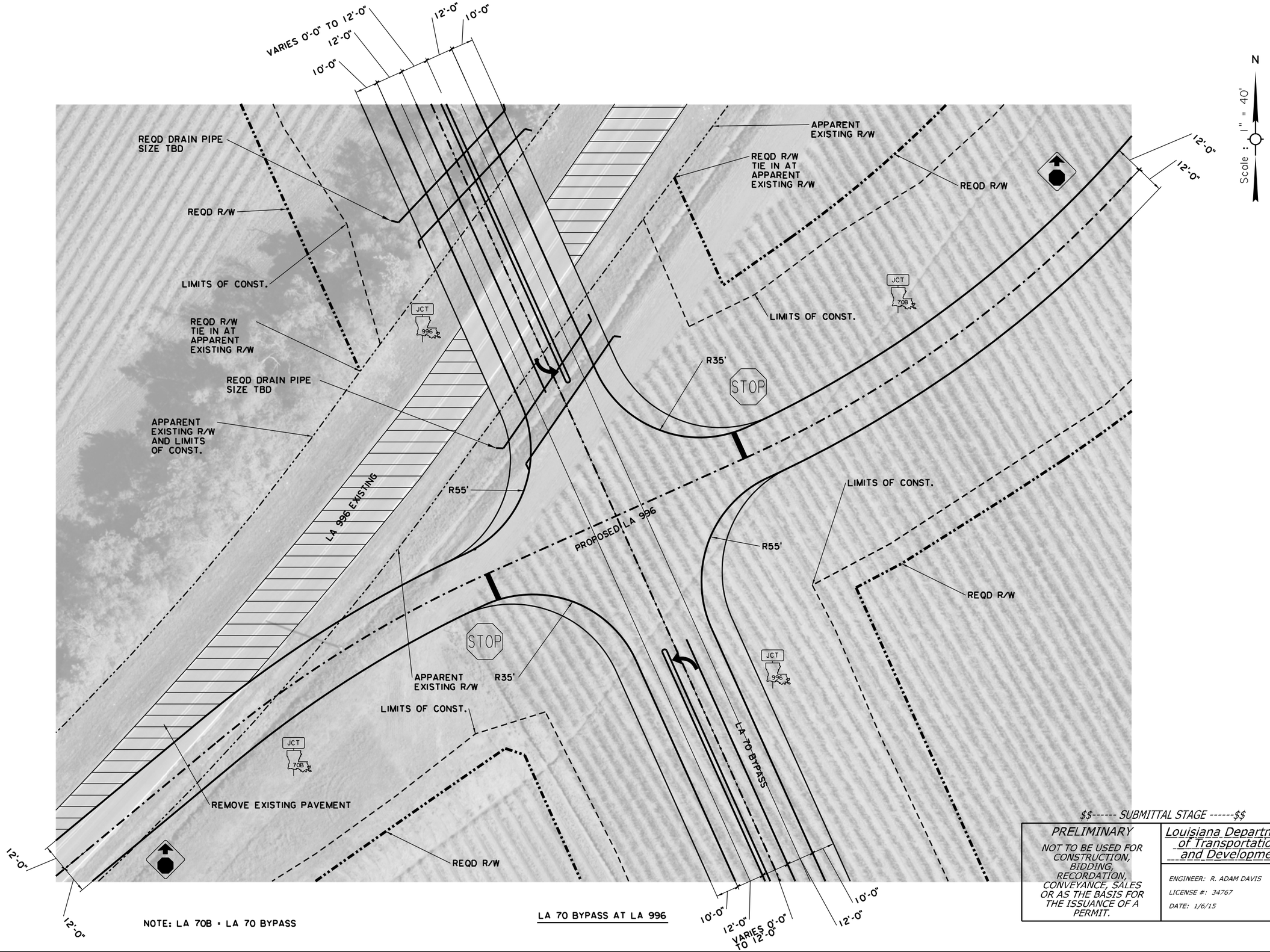
PRELIMINARY	Louisiana Department of Transportation and Development
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	ENGINEER: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER	33
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 2 OF 4

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS
ALTERNATIVE 3
INTERSECTION LAYOUT

PROVIDENCE



NOTE: LA 70B • LA 70 BYPASS

LA 70 BYPASS AT LA 996

$$------ SUBMITTAL STAGE ------$$

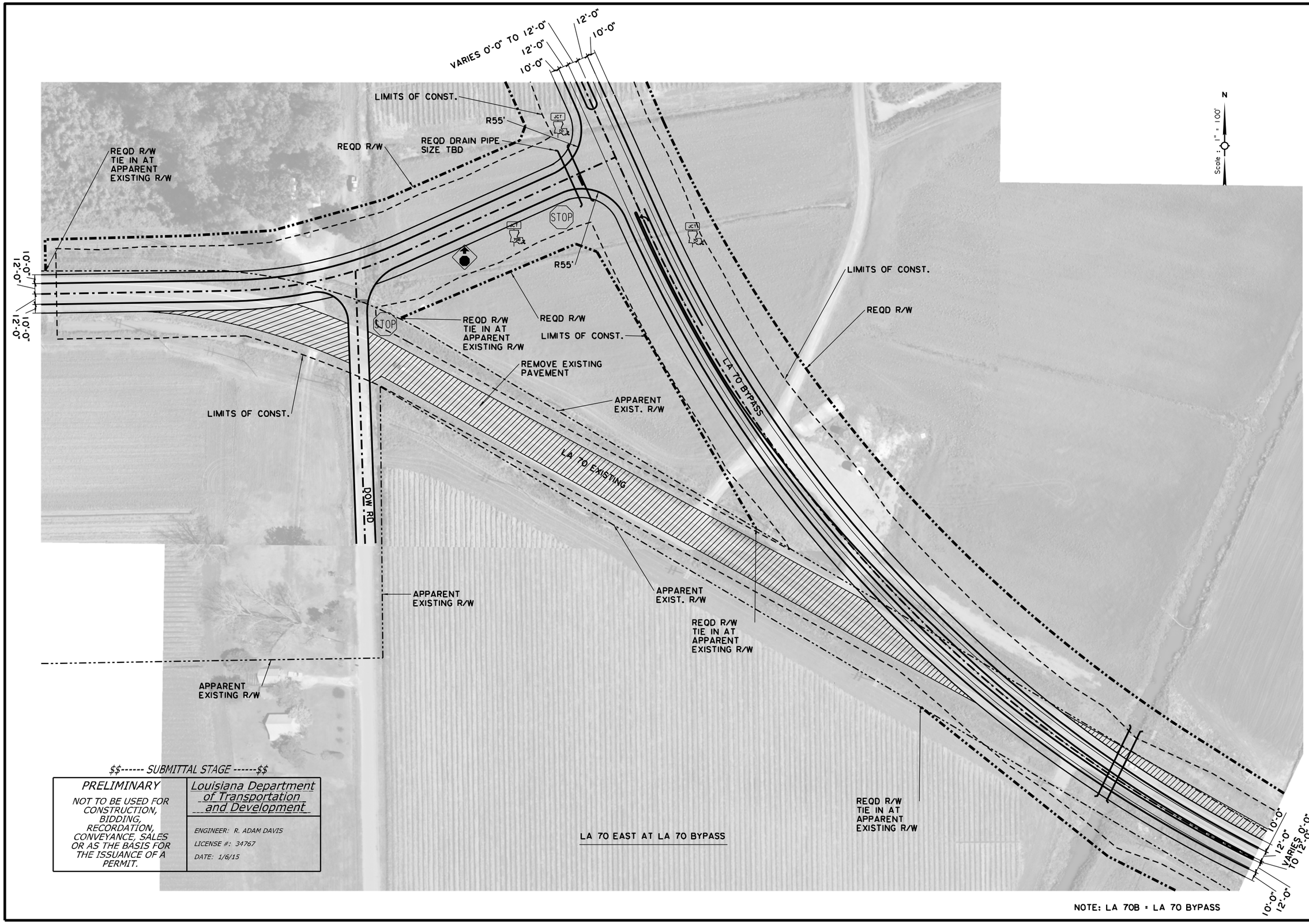
PRELIMINARY	Louisiana Department of Transportation and Development
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	ENGINEER: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER	34
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	3 OF 4

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS
ALTERNATIVE 3
INTERSECTION LAYOUT

PROVIDENCE



$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER	35
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	4 OF 4

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS
ALTERNATIVE 3
INTERSECTION LAYOUT

PROVIDENCE

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
2 - 2c	TYPICAL SECTIONS
4 - 8	PLAN PROFILE SHEETS
9 - 10	INTERSECTION LAYOUT

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PLANS OF PROPOSED STATE HIGHWAY

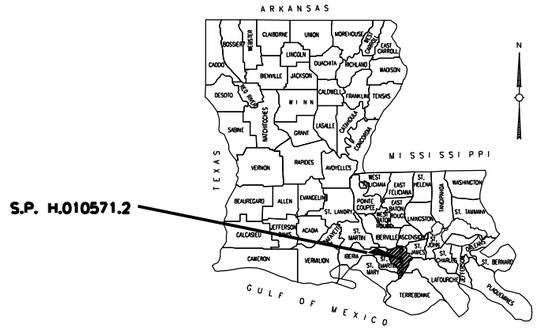
STATE PROJECT NUMBER H.010571.2
FEDERAL PROJECT NUMBER H010571

LA 70 BYPASS

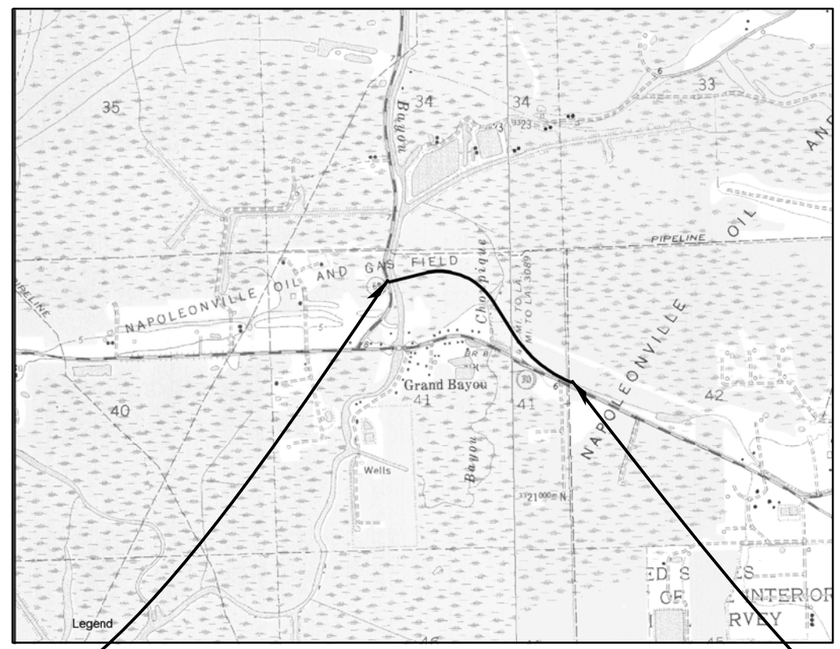
STAGE 1- ENVIRONMENTAL ASSESSMENT

PARISH ASSUMPTION

ROUTE LA 70



VICINITY MAP



BEGIN PROJECT
STA. 0+00.00
CONTROL SECTION 406-01
LOG MILE 0.26

END PROJECT
STA. 40+75.23
CONTROL SECTION 232-01
LOG MILE 4.23

N

LAYOUT MAP

2000 1000 0 2000

Scale: 1" = 2000'

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS* *LICENSE #: 34767* *DATE: 1/6/15*

ADT: 7517
ROADWAY CLASSIFICATION: RA-1
DESIGN SPEED: 50 MPH

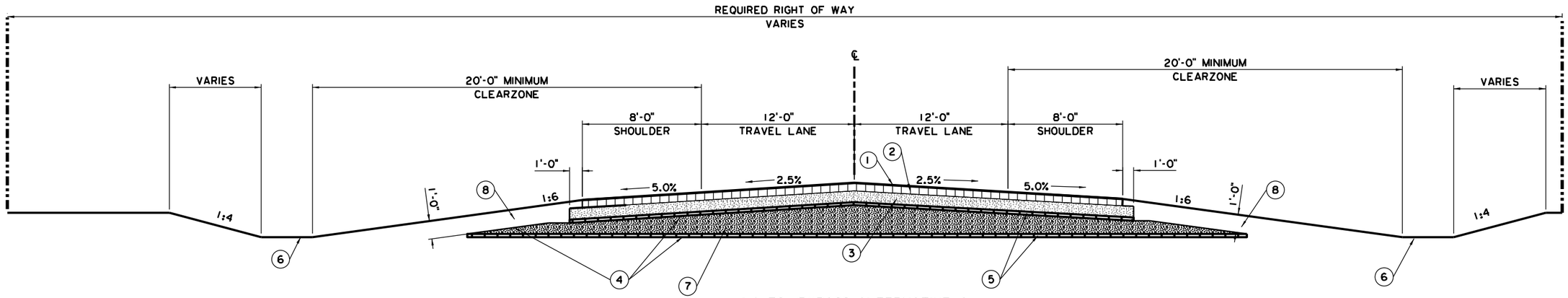
SHEET NUMBER 1
PARISH ASSUMPTION
FEDERAL PROJECT H010571
STATE PROJECT H.010571.2
DESIGNED JPS
CHECKED RAD
DETAILED JPS
CHECKED RAD
DATE JAN 2015
SHEET 1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 4

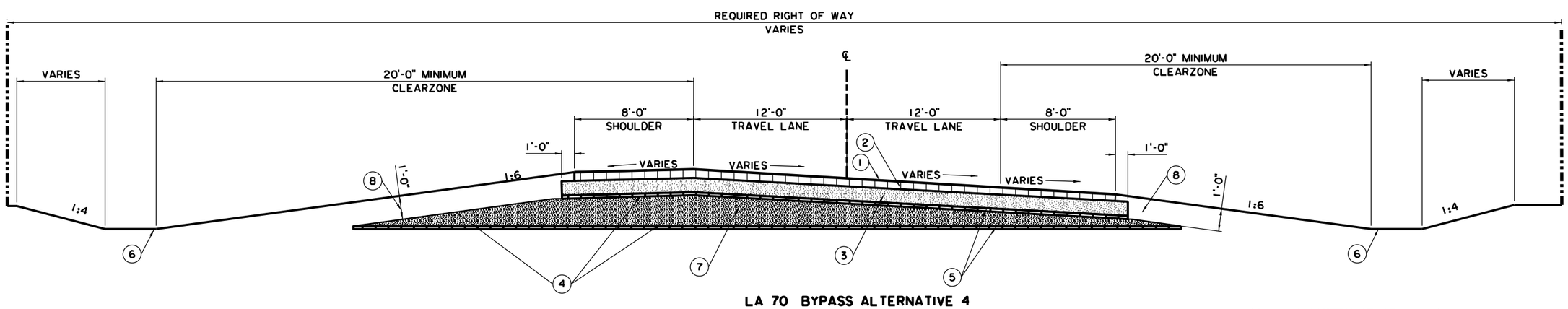
TITLE SHEET

PROVIDENCE



LA 70 BYPASS ALTERNATIVE 4
RA-1 ROADWAY CLASSIFICATION
TYPICAL CROWN FINISHED SECTION (N.T.S.)

0+00 TO 0+20.00
40+75.00 TO 40+75.23
SIDE CONNECTOR 0+00 TO 6+56.17



LA 70 BYPASS ALTERNATIVE 4
RA-1 ROADWAY CLASSIFICATION
TYPICAL SUPERELEVATION FINISHED SECTION (N.T.S.)

35+60.00 TO 40+75.00

1. 2" SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE, LEVEL 2F
2. 8" SUPERPAVE ASPHALTIC CONCRETE BINDER COURSE, LEVEL 2
3. 10" CLASS II BASE COURSE
4. GEOTEXTILE FABRIC
5. GEOGRID
6. 4' MINIMUM DITCH BOTTOM
7. EMBANKMENT (LIGHTWEIGHT FILL MATERIAL)
8. EMBANKMENT (CLAY BLANKET)

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 2

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 1 OF 1

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 4

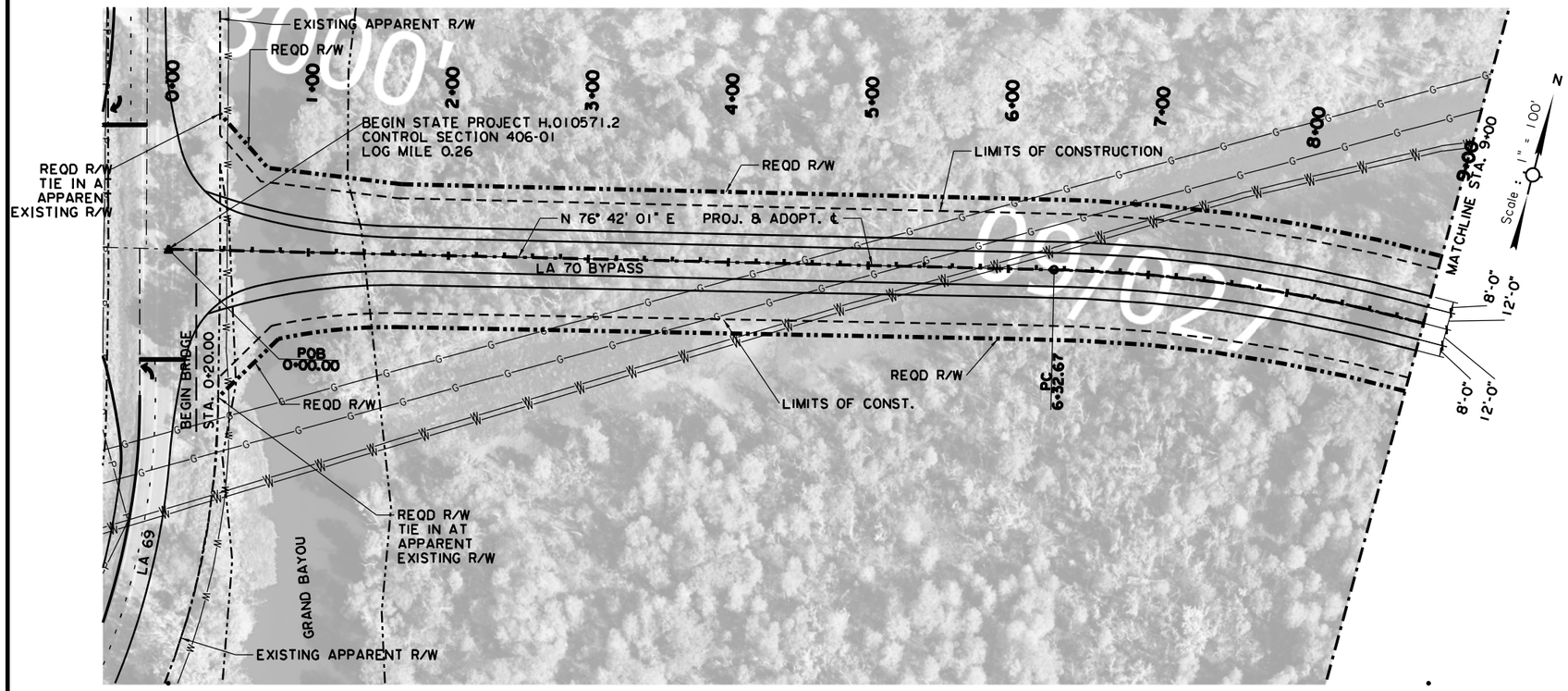
TYPICAL SECTION

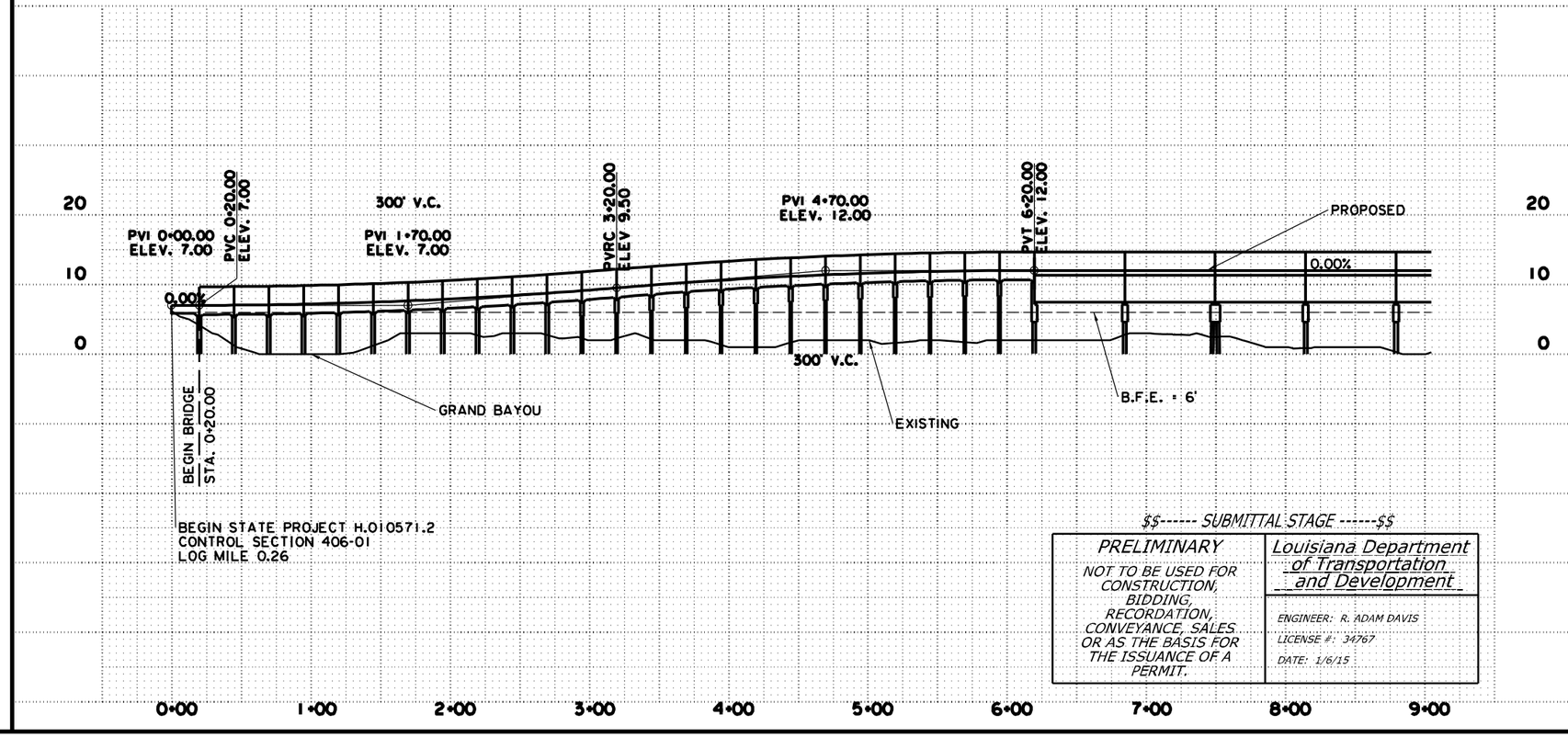
PROVIDENCE

LEGEND - EXISTING TOPOGRAPHY

CONTROL POINT
PHOTO TARGET
PAVEMENT EDGE
SHOULDER EDGE
SLOPE TOE
GUARDRAIL TOP
HIGH BANK
WATER'S EDGE
HIGH WATER MARK
BOX CULVERT
PIPE CULVERT
CATCH BASIN TOP (ROUND)
DROP INLET TOP (ROUND)
DRAINAGE MANHOLE TOP
LEVEE TOP
DITCH CENTERLINE
TREE
WOODS EDGE
MARSH LINE
SWAMP LINE
TREE CLUSTER
HEDGE
BUSH
TREE LINE
FENCE LINE
GATE
CATTLE GUARD
PROPERTY CORNER
RIGHT OF WAY MONUMENT
SECTION CORNER
FENCE CORNER
TELEVISION CABLE
TELEVISION PEDESTAL
POWER POLE
DEADMAN
POWER LINE
POWER JUNCTION BOX
POWER VAULT
TRANSFORMER
COMBINATION POLE
POWER DROP
PIPELINE
PIPELINE VENT
PIPELINE REGULATOR
GAS WELL
OIL WELL

GAS LINE
GAS METER
GAS SERVICE (NO METER)
GAS REGULATOR
GAS RISER
GAS TEST BOX
GAS VALVE
GAS LINE/CASING
GAS VENT
RAILROAD MILEPOST
RAILROAD SIGNAL
RAILROAD SWITCH
RAILROAD TRACK
RR TRAFFIC SIGNAL BOX
SEWER LINE
SEWER MANHOLE TOP
SEWER BLOWOUT VALVE
SEWER CLEANOUT
SEPTIC TANK
SEWER PUMP (PRIVATE)
SEWER TREATMENT (INDIVIDUAL)
FEDERAL AID MARKER
TRAFFIC CONTROLLER BOX
TRAFFIC COUNTER
TRAFFIC SIGNAL
TRAFFIC SIGNAL SUPPORT POLE
LIGHT POLE
LIGHT PEDESTAL
LIGHT POWER VAULT
TRAFFIC SIGN
PARKING METER
TELEPHONE POLE
TELEPHONE LINE
TELEPHONE BOOTH
TELE CROSS CONNECT BOX
TELEPHONE PEDESTAL
TELEPHONE PRESSURE BOX
WATER LINE
WATER LINE/CASING
WATER CLEANOUT
WATER METER
WATER VALVE
WATER VALVE VAULT
WATER WELL
FIRE HYDRANT
BILLBOARD
FUEL PUMP
POST
SIGN POST
STORAGE TANK (ROUND)
GRAVE
MAILBOX
ORNAMENTAL LIGHT
FLAG POLE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

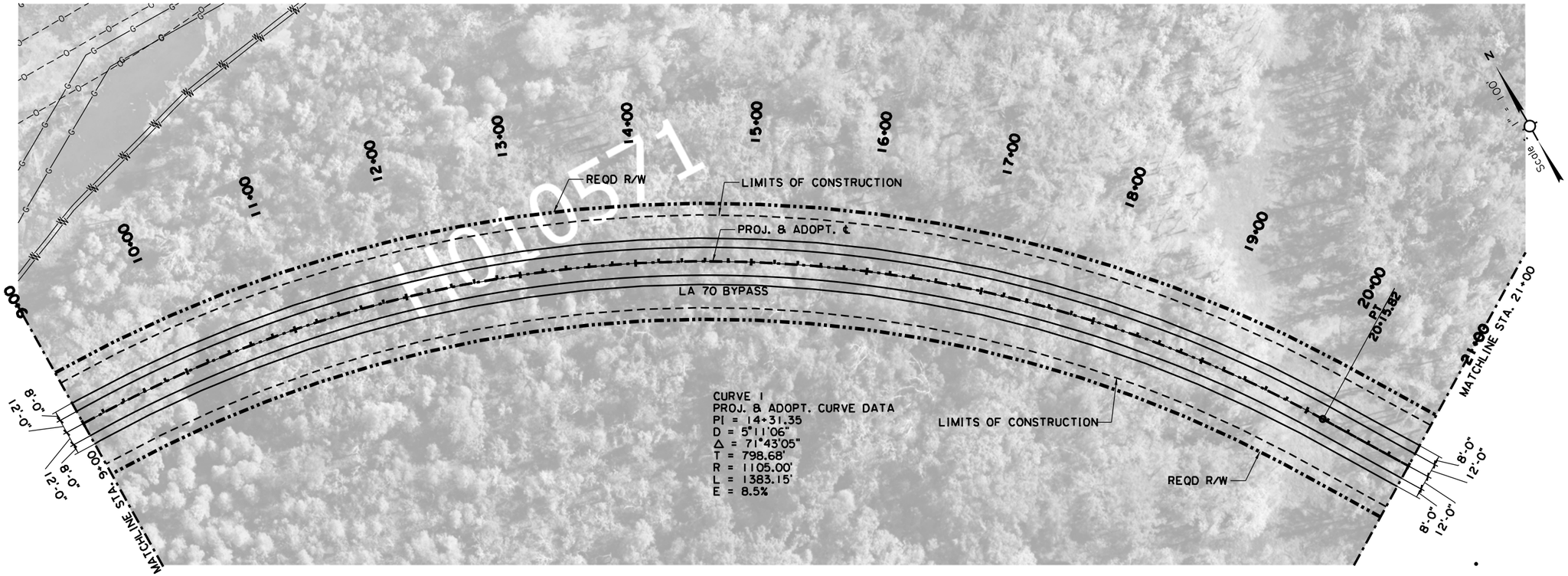
SHEET NUMBER	4
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	1 OF 5

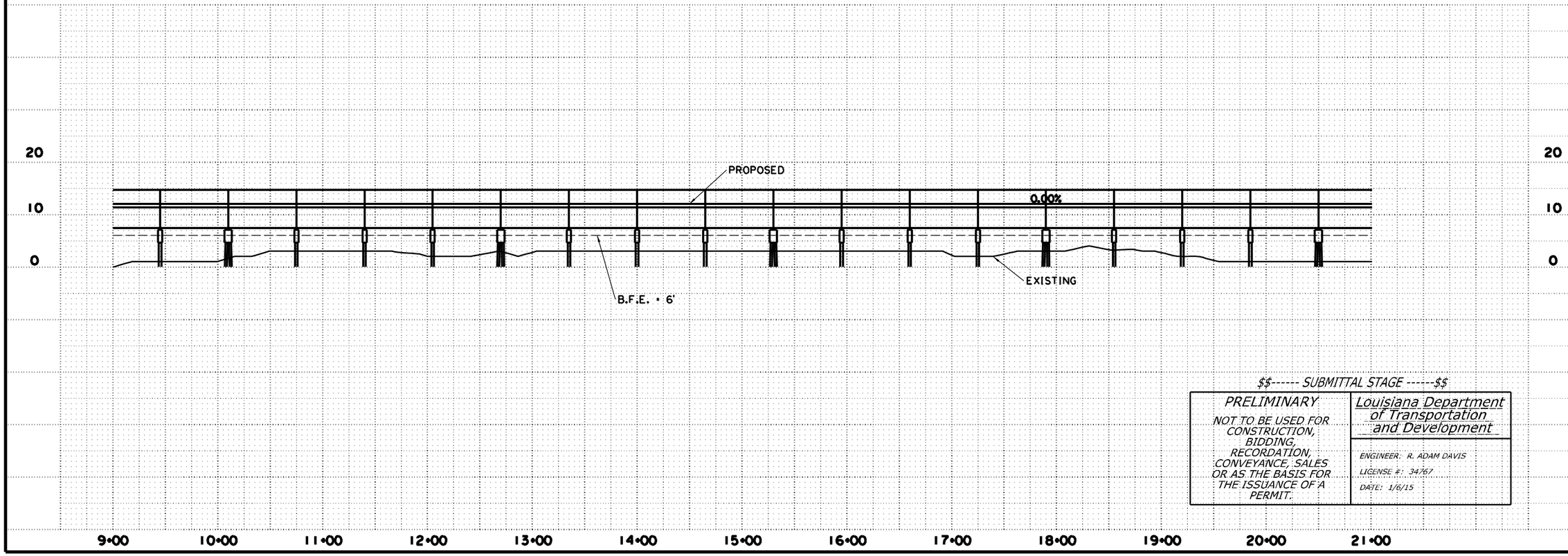
NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 4

PLAN PROFILE SHEET

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

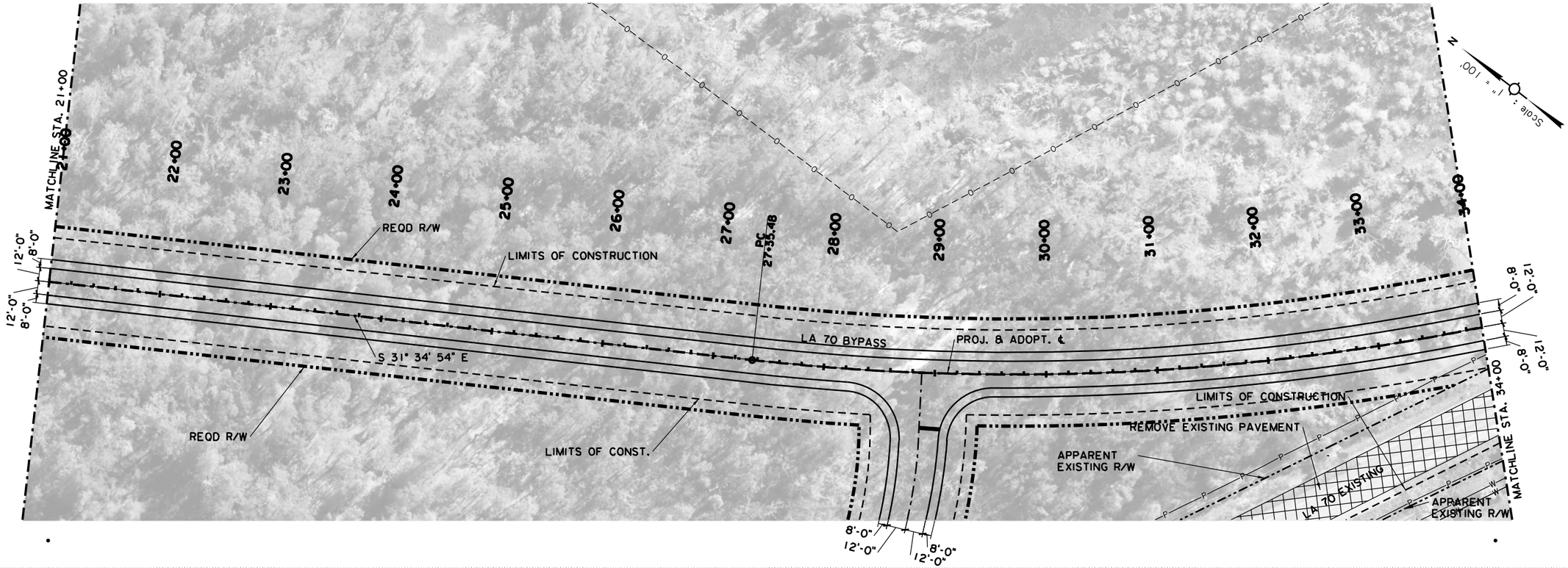
SHEET NUMBER	5
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED / CHECKED	JPS / RAD
DETAILED / CHECKED	JPS / RAD
DATE / SHEET	JAN 2015 / 2 OF 5

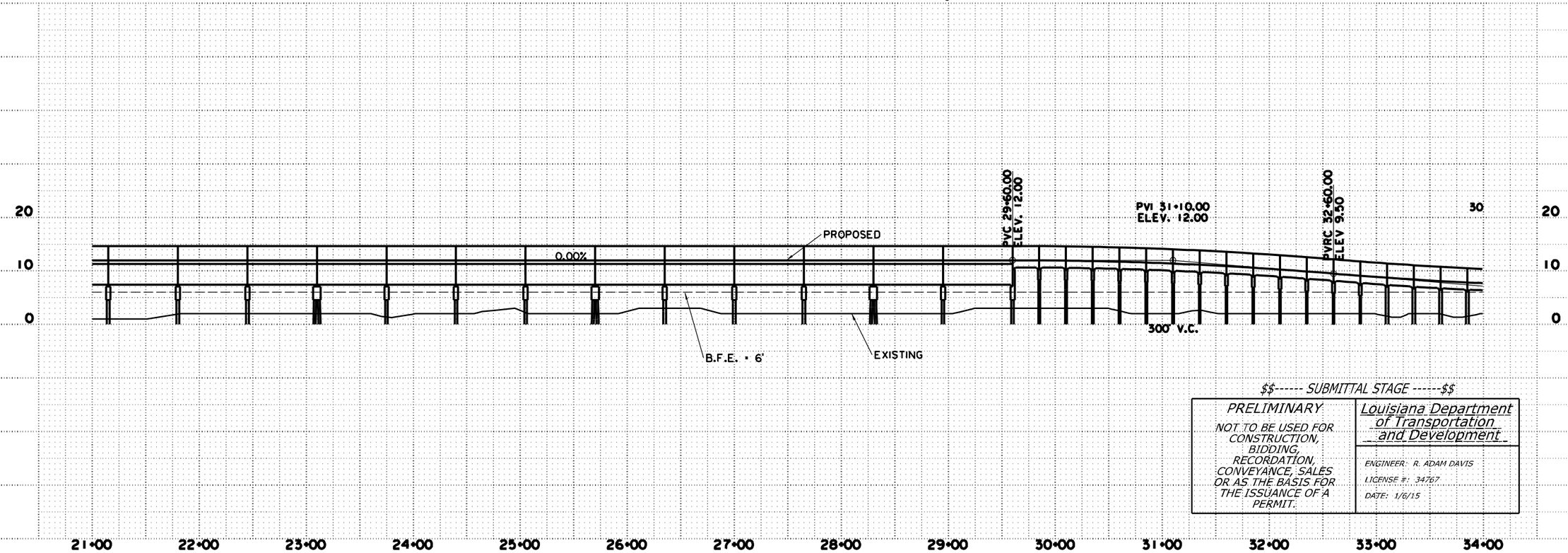
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 4

PLAN AND PROFILE

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 6

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

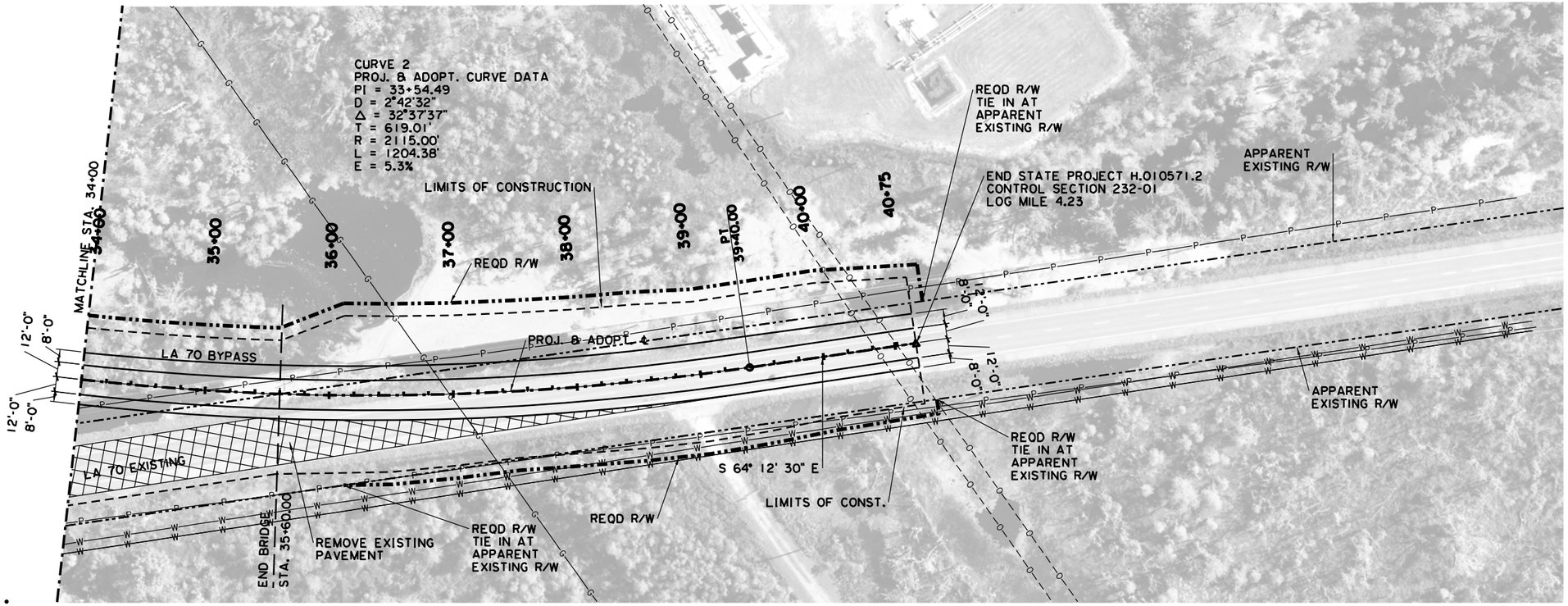
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 3 OF 5

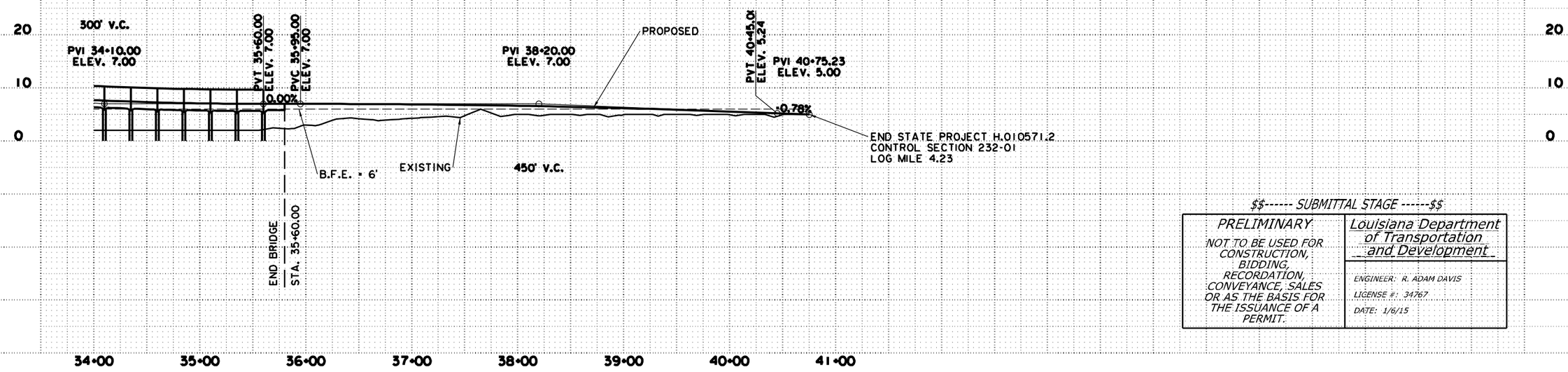
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 4

PLAN AND PROFILE

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

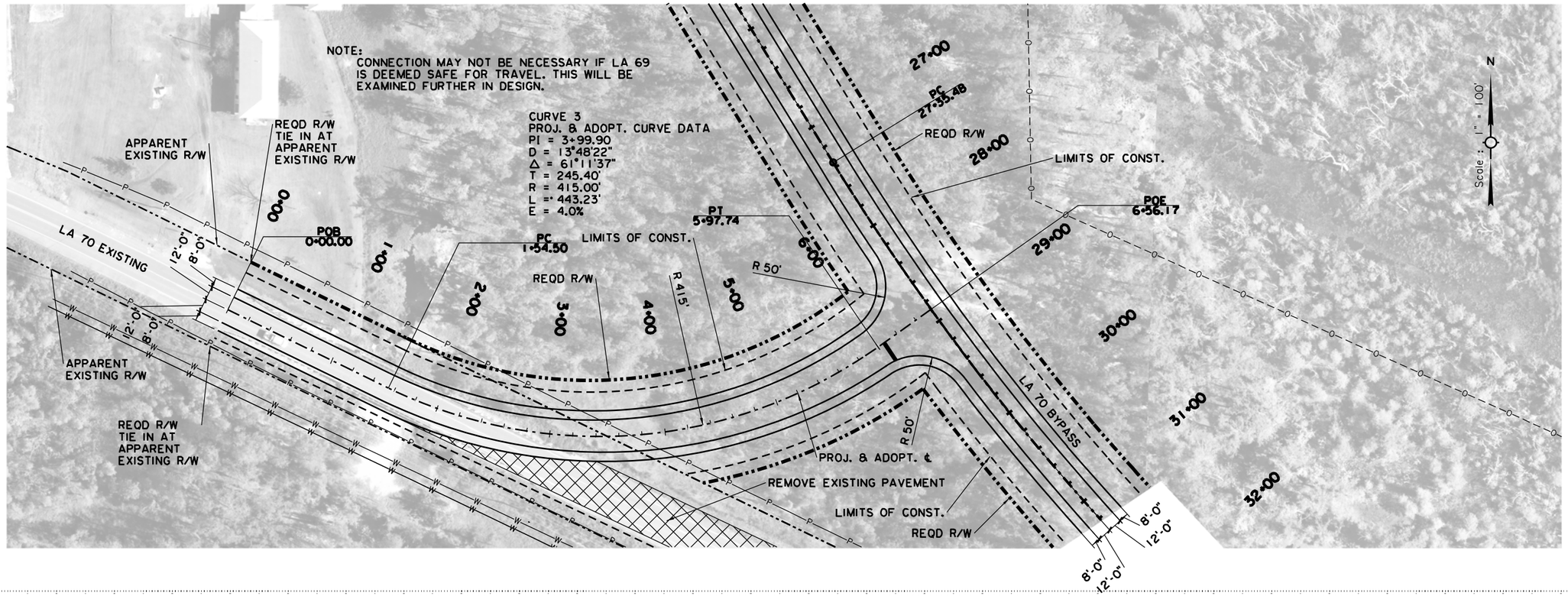
SHEET NUMBER	7
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	4 OF 5

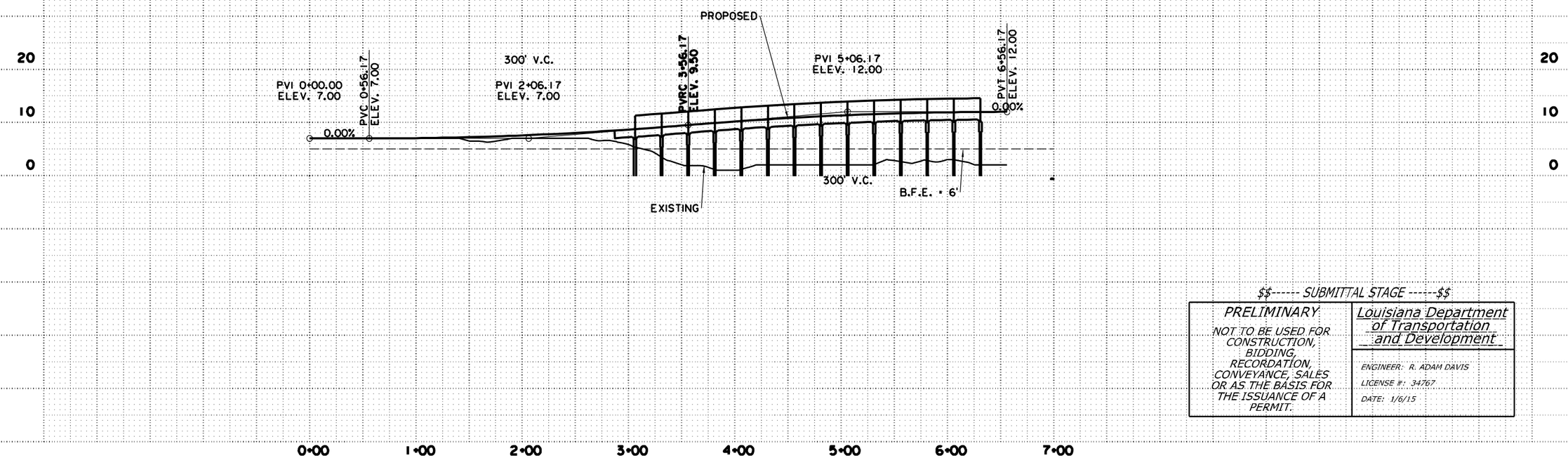
NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 4

PLAN AND PROFILE

PROVIDENCE





$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

SHEET NUMBER 8

PARISH: ASSUMPTION
FEDERAL PROJECT: H010571
STATE PROJECT: H.010571.2

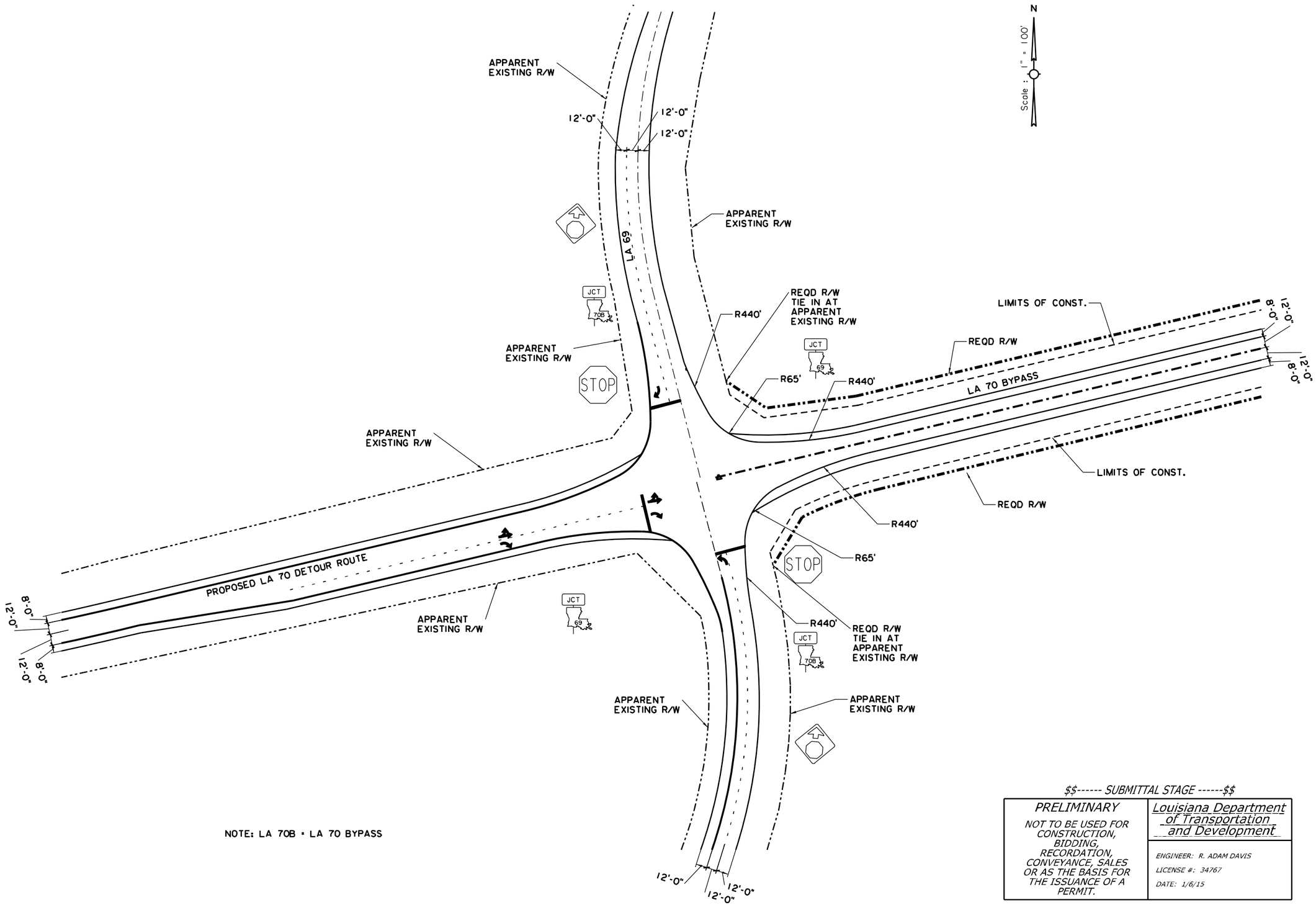
DESIGNED: JPS
CHECKED: RAD
DETAILED: JPS
CHECKED: RAD
DATE: JAN 2015
SHEET: 5 OF 5

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 4

PLAN AND PROFILE

PROVIDENCE



NOTE: LA 70B = LA 70 BYPASS

LA 70 BYPASS/LA 69 INTERSECTION LAYOUT

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS* *LICENSE #: 34767* *DATE: 1/6/15*

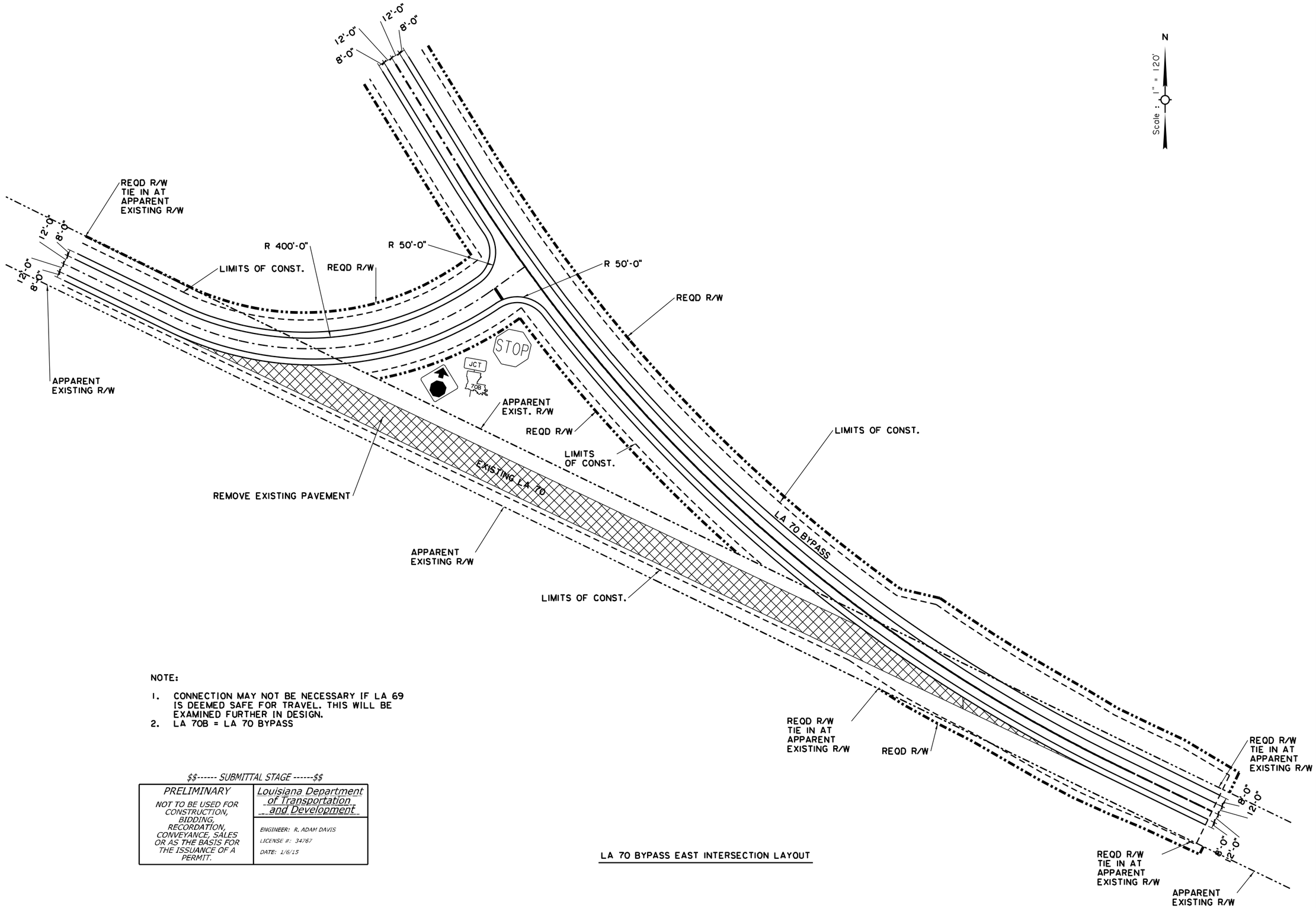
SHEET NUMBER	9
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN 2015
SHEET	1 OF 2

NO.	DATE	REVISION DESCRIPTION	BY

LA 70 BYPASS ALTERNATIVE 4

INTERSECTION LAYOUT

PROVIDENCE



NOTE:

1. CONNECTION MAY NOT BE NECESSARY IF LA 69 IS DEEMED SAFE FOR TRAVEL. THIS WILL BE EXAMINED FURTHER IN DESIGN.
2. LA 70B = LA 70 BYPASS

$$------ SUBMITTAL STAGE ------$$

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: R. ADAM DAVIS LICENSE #: 34767 DATE: 1/6/15

LA 70 BYPASS EAST INTERSECTION LAYOUT

SHEET NUMBER	10
PARISH	ASSUMPTION
FEDERAL PROJECT	H010571
STATE PROJECT	H.010571.2
DESIGNED	JPS
CHECKED	RAD
DETAILED	JPS
CHECKED	RAD
DATE	JAN. 2015
SHEET	2 OF 2

NO. | DATE | REVISION DESCRIPTION | BY

LA 70 BYPASS ALTERNATIVE 4

INTERSECTION LAYOUT

PROVIDENCE

APPENDIX B-2

OPINION OF PROBABLE COST

OPINION OF PROBABLE COST FOR BYPASS ALTERNATIVES 3 AND 4

Item No.	Item Description	Unit Price	Unit	Bypass Alternative 3		Bypass Alternative 4	
				Quantity	Price	Quantity	Price
201-01-00100	Clearing and Grubbing (Estimated at $10,000 per Acre)	$10,000.00	ACRE	88.71	$887,120.00	13.32	$133,180.00
202-02-38500	Removal of Surfacing and Stabalizing Base	$8.00	SQYD	6,105.22	$48,841.78	4,377.78	$35,022.22
203-01-00100	General Excavation	$5.00	CUYD	74,695.50	$373,477.50	859.50	$4,297.50
203-03-00100	Embankment (Lightweight Aggregate)	$60.00	CUYD	37,929.30	$2,275,758.00	2,597.80	$155,868.00
203-08-00100	Geotextile Fabric	$5.00	SQYD	242,663.17	$1,213,315.84	3,739.56	$18,697.78
204-06-00100	Temporary Silt Fence	$2.00	LNFT	47,289.58	$94,579.16	1,682.80	$3,365.60
302-02-05121	Class II Base Course (10" Thick) (Stone or RPCC, or Blended Calcium Sulfate)	$27.00	SQYD	110,301.44	$2,978,138.88	3,739.56	$100,968.00
502-01-00100	Superpave Asphaltic Concrete	$118.00	TON	60,665.79	$7,158,563.46	2,075.45	$244,903.49
509-01-00100	Cold Planing Asphaltic Pavement	$1.00	SQYD	7,837.00	$7,837.00	1,647.00	$1,647.00
701-11-01080	Reinforced Concrete Pipe Arch (36" Equiv.)	$35.00	LNFT	480.00	$16,800.00	0.00	$0.00
713-01-00100	Temporary Signs and Barricades	LUMP	LUMP	$200,000.00	$200,000.00	$75,000.00	$75,000.00
727-01-00100	Mobilization (Estimated at 12% of Total Construction Cost) [1]	LUMP	LUMP	$19,272,845.85	$19,272,845.85	$3,905,000.64	$3,905,000.64
729-01-00100	Sign (Type A)	$20.00	SQFT	310.00	$6,200.00	110.00	$2,200.00
NS-729-00013	Square Steel Tubular Sign Posts and Hardware (2" x 2") (2.23lb/ft)	$125.00	EACH	31.00	$3,875.00	11.00	$1,375.00
731-02-00100	Reflectorized Raised Pavement Markers	$7.00	EACH	1,950.49	$13,653.43	235.32	$1,647.24
732-01-02080	Plastic Pavement Striping (24" Width) (Thermoplastic 125 mil)	$18.00	LNFT	73.50	$1,323.00	69.00	$1,242.00
732-02-02000	Plastic Pavement Striping (Solid Line) (4" Width) (Thermoplastic 90 mil)	$2,800.00	MILE	14.78	$41,374.02	1.78	$4,991.64
732-03-02000	Plastic Pavement Striping (Broken Line) (4" Width) (Thermoplastic 90 mil)	$900.00	MILE	7.39	$6,649.40	0.89	$802.23
739-01-00100	Hydro-Seeding	$1,800.00	ACRE	86.51	$155,724.23	9.28	$16,706.57
740-01-00100	Construction Layout (Estimated at 0.2% of Total Construction Cost)	LUMP	LUMP	$325,343.99	$325,343.99	$65,920.13	$65,920.13
NA [2]	Slab Span Section [3]	$172.00	SQFT	76,725.00	$13,196,700.00	64,812.50	$11,147,750.00
NA [2]	PCC Girder Section	$172.00	SQFT	611,010.00	$105,093,720.00	99,450.00	$17,105,400.00
NA [2]	Steel Girder Section	$360.00	SQFT	26,737.50	$9,625,500.00	0.00	$0.00
Subtotal					**$162,997,340.54**		**$33,025,985.03**
Contingency (20%)					$32,599,468.11		$6,605,197.01
Engineering Design (8%)					$13,039,787.24		$2,642,078.80
Required Right-of-Way (ROW) [4]		LUMP	LUMP	$274,800.00	$274,800.00	$9,300.00	$9,300.00
Utility Relocations [5]		LUMP	LUMP	$9,686,458.85	$9,686,458.85	$481,884.40	$481,884.40
Environmental Mitigation [6]		LUMP	LUMP	$3,600,880.00	$3,600,880.00	$207,570.00	$207,570.00
TOTAL [7]					**$222,198,734.73**		**$42,972,015.24**

Notes:

1. Mobilization cost is estimated at a higher than average percentage due to atypical construction techniques and equipment that may be required due to the existing conditions of the project area.
2. This cost consist of all items necessary for this type of bridge construction.
3. This cost is based on using full depth precast panels. The partial depth precast option is approximately $184 per sq ft, which result in an Alternative 3 cost of $13,489,500 and an Alternative 4 cost of $16,734,800.
4. ROW costs for Bypass Alternative 3 are derived from the Conceptual Stage Relocation Plan appended to the EA document. ROW costs for Bypass Alternative 4 are based on raw land impacts of 9.30 acres valued at $1000/acre as derived from DOTD.
5. Utility relocation costs were based on the assumptions made in the Stage 0 Feasibility Study (Appendix I: Utility Location Survey and Relocation Cost Estimate, dated November 2013). These costs only include utilities directly impacted by the ROW and do not include relocating roadside utilities from the existing LA 70 to the bypass. All underground utilities crossing the bypass are assumed to be encased from ROW to ROW. Any utility crossing the roadway at less than 20° is assumed to require relocation at a cost of $200 per linear foot.
6. Wetlands mitigation costs were calculated by determining National Wetlands Inventory acreage within the ROW and estimating $65,000 per acre for forested wetlands and $32,000 per acre for emergent wetlands. Once final line and grade is approved, the wetlands delineation will be conducted and a request for jurisdicaiton determination will be submitted to USACE.
7. This is a preliminary cost estimate. Costs will be adjusted during the Stage 3 Design once the survey and geotechnical studies are complete.

APPENDIX B-3

BRIDGE SUMMARY

BRIDGE SUMMARY

COST

Bridge type and cost per square foot for end-on construction

- Concrete Slab Span – Full and Partial Depth (25-foot spans) = $172 per square foot (sq. ft.)
- Precast Concrete Voided Slab Span Option (40-foot spans) = $184 per sq. ft.
- Prestressed Concrete Girders (AASHTO Type III) = $172 per sq. ft.
- Steel Plate Girder = $360 per sq. ft.

The above cost is based on the assumption that end-construction using a moveable truss and crane system will be used to construct the majority of the bridge. Costs for slab spans and concrete girders were computed using the cost to construct Interstate 269 (I-269) over the Coldwater River in Marshall County, Mississippi. This bridge has the same girders, span length, and type of construction. The I-269 bridge was approximately 5,400 feet long by 98 feet wide.

Bridge type and cost per square foot for conventional construction

- Concrete Slab Span – Full and Partial Depth (25-foot spans) = $100 per sq. ft.
- Precast Concrete Voided Slab Span Option (40-foot spans) = $112 per sq. ft.
- Prestressed Concrete Girders (AASHTO Type III) = $100 per sq. ft.
- Steel Plate Girder = $240 per sq. ft.

BRIDGE DESCRIPTION

1. Partial Depth Precast Concrete Slab Spans (Non-Voided)
    - 40 feet clear roadway width, two 12-foot travel lanes with 8-foot shoulders
    - Barrier Railing = 2'-8" tall Test Level 4 (TL-4) "F" shape concrete barrier
    - Precast Span Length = 25 feet
    - Superstructure supported by precast concrete pile bent caps with 18-inch square precast prestressed concrete (P.P.C.) piles.

2. Prestressed Concrete Girders
    - Clear Roadway Width = Same as above
    - Girder Type = AASHTO Type III P.P.C Girders
    - Span Lengths = 60 feet, 65 feet, and 80 feet
    - Deck Thickness = 8 inches
    - Girder Spacing = 9 feet
    - Barrier Railing = Same as Above
    - Superstructure supported by precast concrete pile bent caps with 30-inch square P.P.C. piles

3. Steel Plate Girder
    - Clear Roadway Width = Same as Above
    - Girder Type = 6'-6" tall steel plate girder
    - Span Length = three span continuous units (175 feet, 225 feet, and 175 feet)
    - Deck Thickness = 8 inches
    - Girder Spacing = 9 feet
    - Barrier Railing = Same as Above
    - Superstructure supported by precast concrete pile bent caps with 30-inch square P.P.C. piles

REQUIRED LIMITS OF CONSTRUCTION

The limits of construction are proposed as 20 feet on each side of the entire bridge for the majority of construction. However, the steel spans will require 40 feet on each side.

CONSTRUCTION TYPE

Due to the large amount of wetlands impacted by the proposed route, it has been assumed that environmentally sensitive construction will be required. Conventional construction allows for ease and speed of construction, but is typically performed from the ground, which leads to disturbance of vegetation and potentially the destruction of sensitive wetland areas. A form of end-on construction using a movable truss and crane system would most likely be used to construct the bridge in wetland areas. A steel trestle would be constructed on each side of the bridge supported by steel piles. The steel trestle serves as the support platform for the gantry crane, crawler crane, and other construction equipment. As the spans are constructed, the trestle system is "walked" forward as construction progresses. This type of system allows for all operations to be performed off of the ground. All material and equipment is transported to the construction zone using the completed portion of the bridge, which eliminates the temporary haul road used to transport material and equipment to and from the construction zone. Construction matting used to support cranes and other heavy equipment can also be eliminated with the use of the trestle system. This type of construction was used to construct the elevated portion of Louisiana Highway 1 (LA 1) in Lafourche Parish, Louisiana and is currently being used to construct I-269 over the Coldwater River (Project No. 0029-03(009)). Photographs of similar construction techniques are included at the end of this summary.

Due to the long span lengths of the steel plate girder spans, it may not be possible to construct this portion of the bridge using end-on construction techniques. The plate girders will most likely have one or more splices incorporated into the design. This would require certain segments of the girders to be supported by false work (steel towers) until all segments of the girders are spliced together. Crane mats would also have to be used to support cranes and other construction equipment on the ground during the substructure and superstructure erection process. This portion of the structure spans a pipeline right-of-way and a 75-foot wide canal. These features could potentially be used by the contractor to assist him/her in erecting the structure while minimizing impacts to wetlands. When erecting this portion of the bridge, it should be required in the contract documents that the contractor propose a detailed erection scheme which would make every effort to minimize impacts to the surrounding wetlands.

PRECAST SLAB SPAN OPTIONS

Due to the end-on construction method that is required to construct the bridge, conventional cast-in-place slab spans may not be feasible in most cases. This is due to the difficulty in removing the temporary concrete formwork used to support the concrete until it reaches a required compressive strength. The use of precast panel units makes this type of construction feasible because it eliminates the need for temporary concrete formwork. Three alternative precast span types have been identified as viable options for the construction of the structures:

1. Partial Depth Precast Concrete Panels with a Cast-In-Place Concrete Topping
   Partial depth precast panels are placed on the bent caps and transverse post-tensioning is applied to the panels so that they act as a unit. Once post-tensioned, a mat of rebar is placed on top of the panels and a five or six inch layer of concrete is placed on top of the panels to achieve the required structural thickness. Typical span lengths range from 20 feet to 30 feet. Spans lengths in the order of 40 feet can be achieved with the addition of longitudinal prestressing into the panels, but placing them using end-on construction can be difficult due to the weight of the longer panels.

2. Full Depth Precast Concrete Panels
   Full depth precast concrete panels are placed on the bent caps and transverse post-tensioning is applied to the panels so that they act as a unit. The panels are designed to the required structural thickness and a cast-in-place concrete topping is not required. Typical span lengths range from 20 feet to 30 feet.

3. Partial Depth Voided Precast Concrete Panels with a Cast-In-Place Concrete Topping
   These panels are similar to Option 1, but they contain longitudinal prestressing along with longitudinal voids that are cast within the panel to reduce their weight. The panels are placed on the bent caps and transverse post-tensioning is applied to the panels so they act as a unit. Once post-tensioned, a mat of rebar is placed on top of the panels and a five or six inch layer of concrete is placed on top of the panels to achieve the required structural thickness. Typical span lengths are in the range of 40 feet.

For locations identified during the design process in which precast slabs spans would not be feasible due to geometric and/or constructability reasons, cast-in-place slab spans can be used in lieu of the precast spans.

PRESTRESSED CONCRETE GIRDER SPANS (DECK CONSTRUCTION)

The deck of the prestressed concrete girder spans can be built using conventional construction techniques utilizing stay-in-place metal forms with a cast-in-place concrete deck.

05.14.2014

05.14.2014

05.13.2014

05.13.2014

05.13.2014