

TRANSPORTATION PLANNING REPORT

Special Bridge Replacement Program

LOCAL ROUTE A752 (CREEKWOOD ROAD)
BRIDGE OVER BRANCH OF SUGAR CREEK
LOG MILE 0.56
GIBSON COUNTY
PIN 116946.00



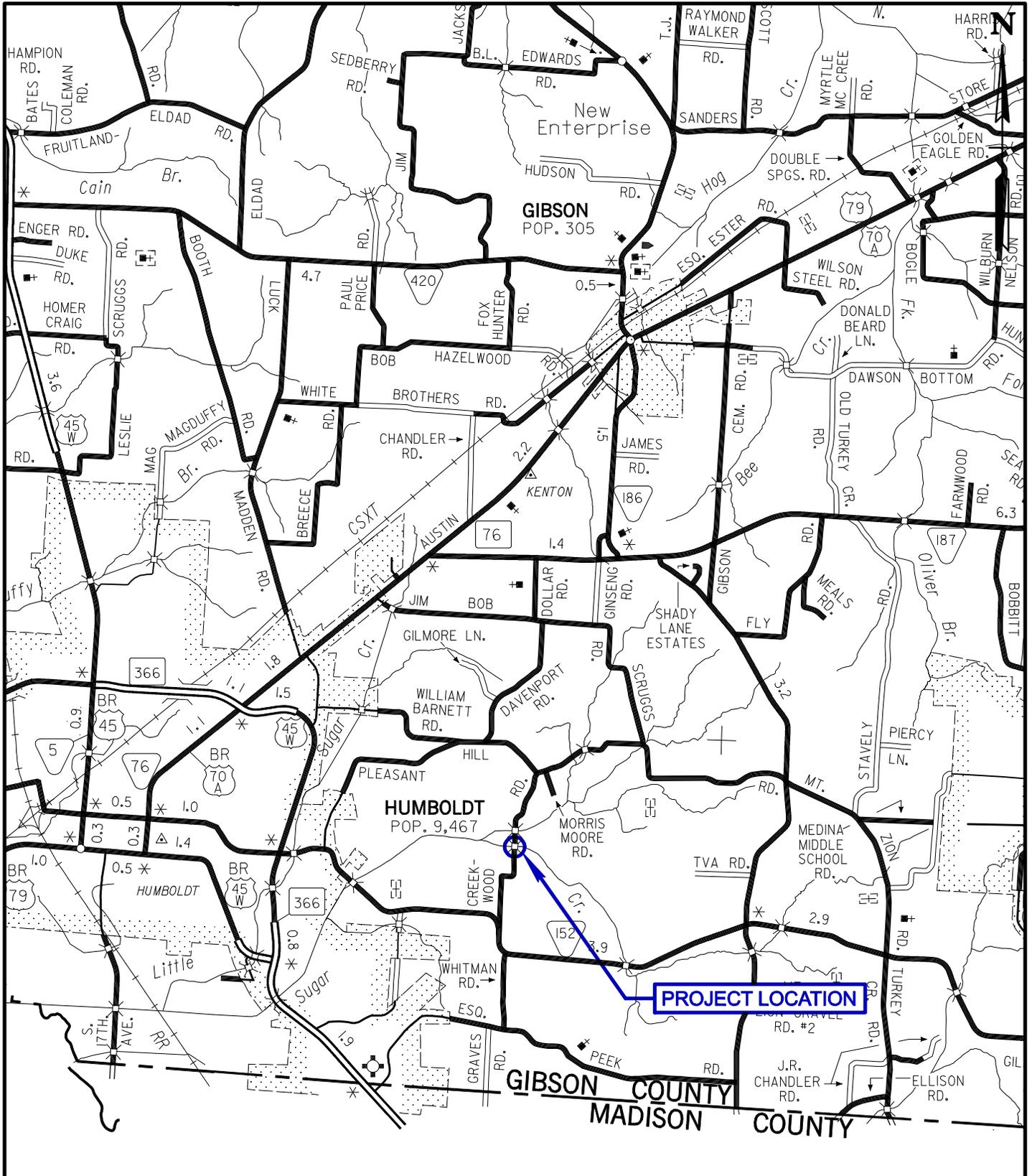
PREPARED BY
ALFRED BENESCH AND COMPANY
FOR THE
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT PLANNING DIVISION

Approved by [Signature] Date 2/28/13
Chief of Environment and Planning

Approved by [Signature] Date 3/20/13
Deputy Commissioner and Chief Engineer

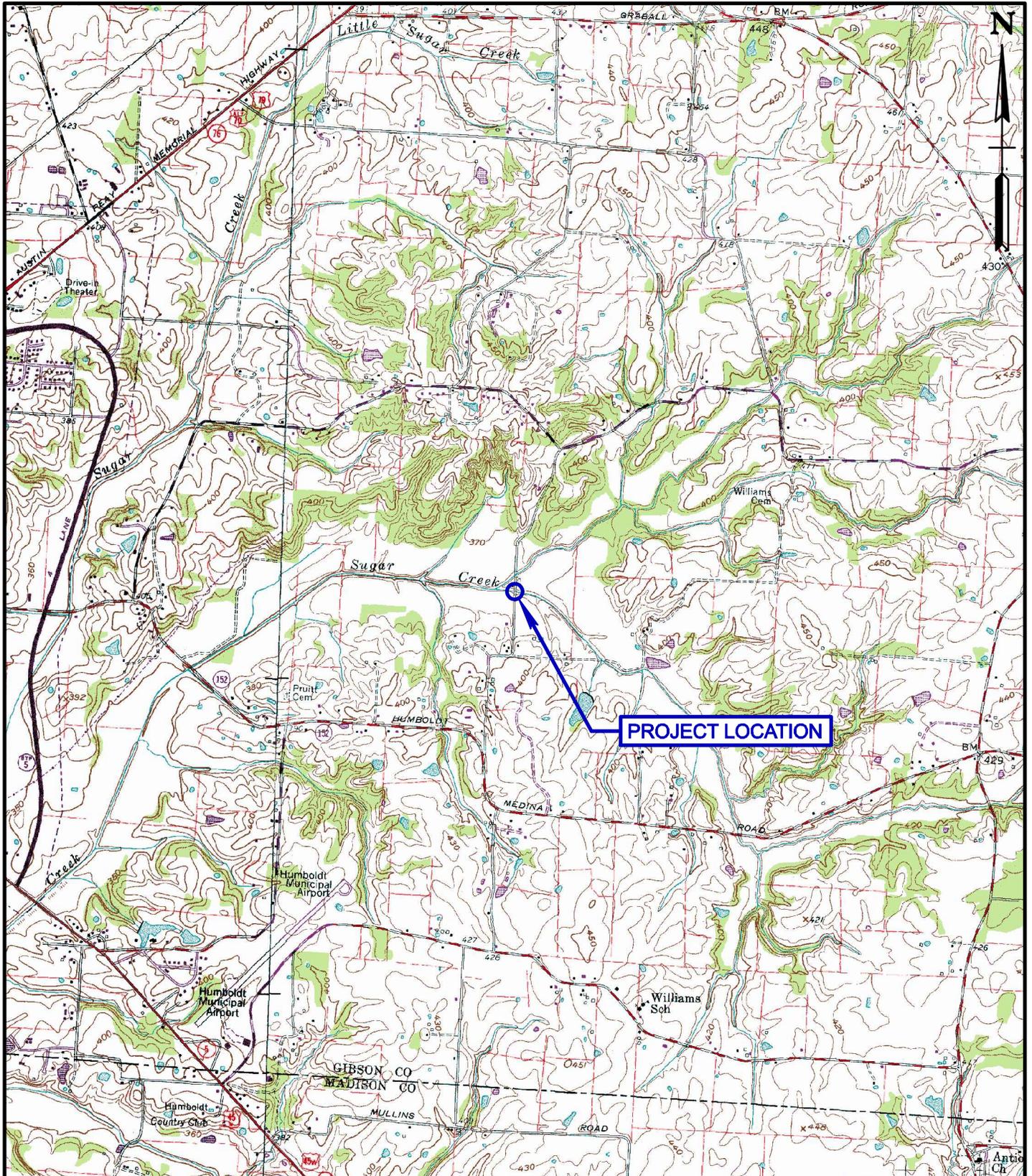
Approved by:	Signature	DATE
Transportation Director Project Planning Division	<u>[Signature]</u>	1-23-13
Engineering Director Design Division	<u>[Signature]</u>	1-24-13
Engineering Director Structures Division	<u>[Signature]</u>	1-30-13

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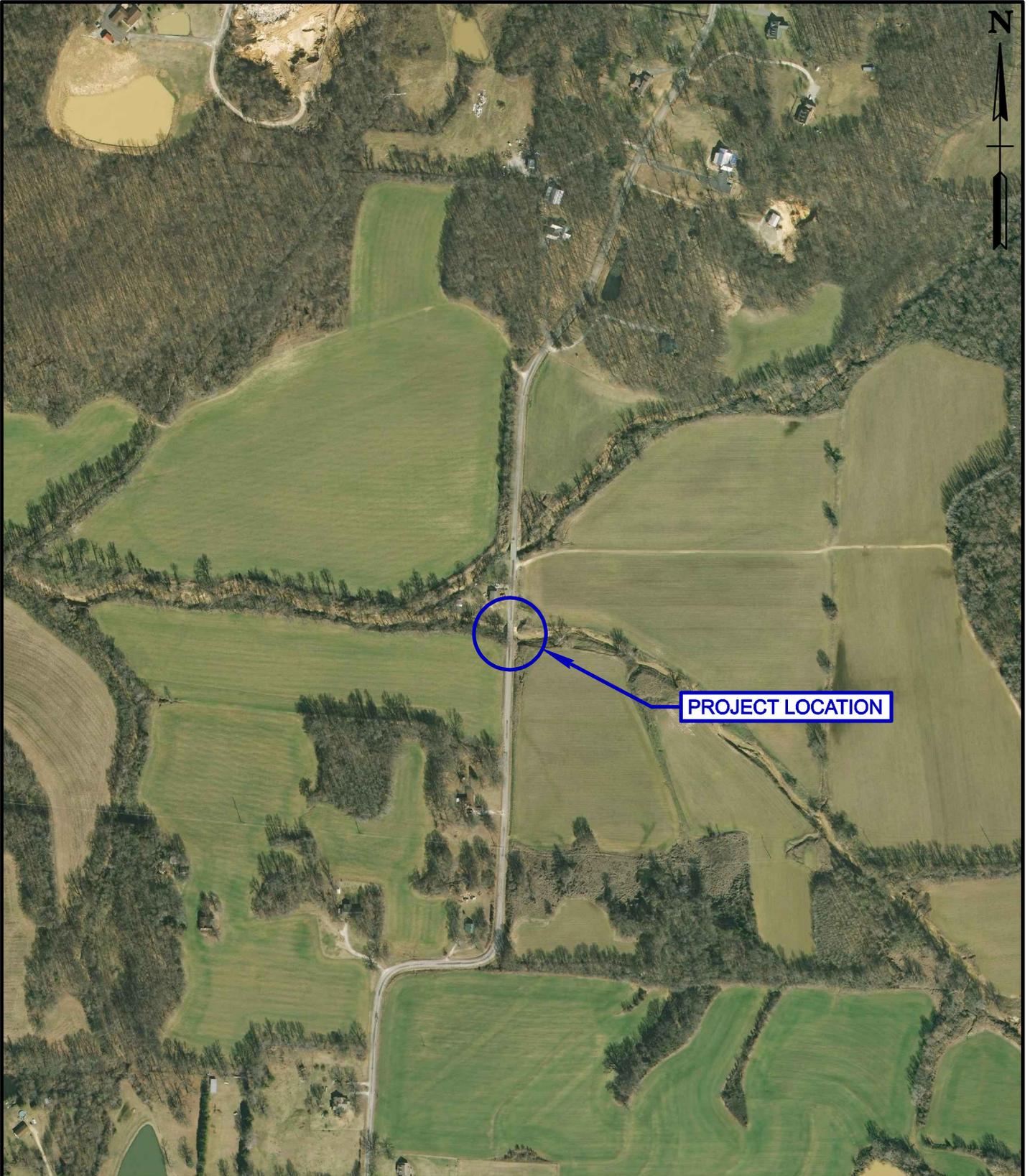
LOCATION MAP

COUNTY:	GIBSON	CITY:	N/A
LR A752 (CREEKWOOD RD.)		PIN 116946.00	
SCALE:	1" = 1 MILE	DATE:	06-01-12



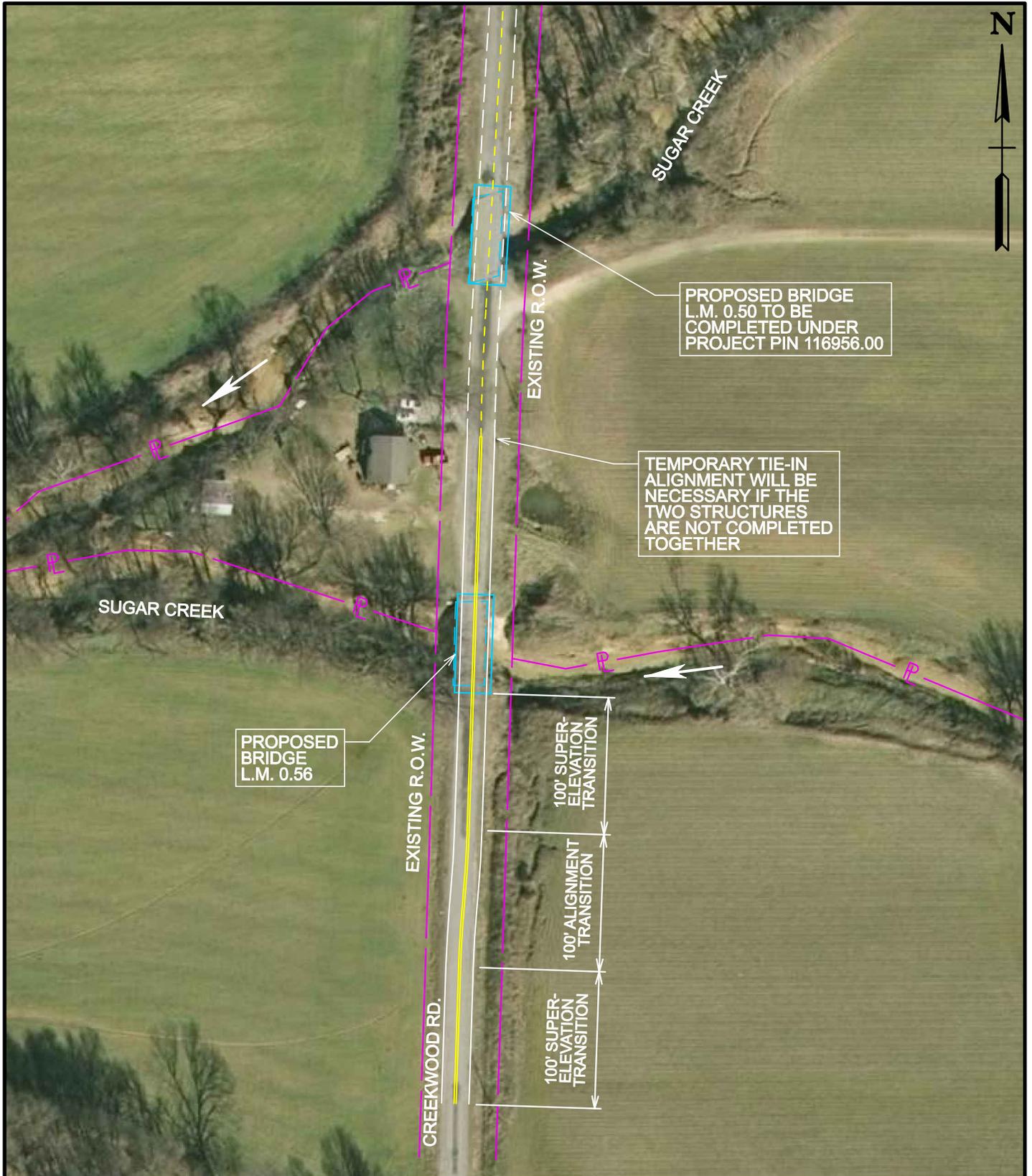
VICINITY MAP

COUNTY:	GIBSON	CITY:	N/A
LR A752 (CREEKWOOD RD.)			
PIN 116946.00			
SCALE:	1" = 1/2 MILE	DATE:	06-01-12



AERIAL

COUNTY:	GIBSON	CITY:	N/A
LR A752 (CREEKWOOD RD.)			
PIN 116946.00			
SCALE:	1"= 500'	DATE:	06-01-12



PROPOSED BRIDGE
L.M. 0.56

PROPOSED BRIDGE
L.M. 0.50 TO BE
COMPLETED UNDER
PROJECT PIN 116956.00

TEMPORARY TIE-IN
ALIGNMENT WILL BE
NECESSARY IF THE
TWO STRUCTURES
ARE NOT COMPLETED
TOGETHER

CREEKWOOD RD.
EXISTING R.O.W.
EXISTING R.O.W.

100' SUPER-
ELEVATION
TRANSITION

100' ALIGNMENT
TRANSITION

100' SUPER-
ELEVATION
TRANSITION



PROPOSED LAYOUT

COUNTY:	GIBSON	CITY:	N/A
LR A752 (CREEKWOOD RD.)			
PIN 116946.00			
SCALE:	1"= 100'	DATE:	06-01-12

TRANSPORTATION PLANNING WORKSHEET

BRIDGE REPLACEMENT ANALYSIS, NEEDS, AND COSTS

County Gibson Route A752-Creekwood Road Log Mile 0.56
Feature Crossed Branch of Sugar Creek System Local
Functional Class Rural/Local Bridge I.D. 270A7520003

EXISTING CONDITIONS

2016 ADT 160 App. Cross Section 20'24'/50' No. Lanes 2
Approach Alignment Tangent north, tangent south Year Built 1975 Load Limit 5 Tons
Width (curb to curb) 22.92' Sidewalks: Right N/A Left N/A Length 61
No. Spans: Approach 0 Main 3
Substructure Timber Vertical Clearance 13' Sufficiency Rating 30.2
Other: No posted speed limit. Gas line west of bridge and power lines east of the bridge. There is a second bridge at L.M. 0.50.

PROPOSED IMPROVEMENTS

STANDARDS FROM RD01-TS- 1A Type of Work Replace
Design Year 2036 ADT 200 DHV 28 ADL (F) N/A (R) N/A
Length of Project 600' Structure Length 72' Design Speed (MPH) 30
Approach Width 20'24'/as required Bridge Width 26.33' No. Lanes 2
Right-of-Way Required 4 Tracts Temporary Detour Yes (3.7 miles)
Alternate Route Pleasant Hill Rd to SR-152 to Creekwood Rd.

Remarks: The adjacent property owner's home lies between this bridge and the bridge at L.M. 0.50. Access to this home would be restricted if both bridges are replaced at the same time. The construction phasing of the two bridges must be coordinated. Road will be closed during construction. Proposed structure is a 72' single span concrete bridge. The proposed bridge will raise the grade approximately one and one-half (1.5) feet and the horizontal alignment will be shifted approximately three (3) feet to the east. The actual size and type of structure will be determined by TDOT Structures.

ESTIMATED COST

Right-of-Way \$ 24,000 Approaches \$ 385,300 Structure \$ 321,000
Preliminary Engineering \$ 76,900 Utilities \$ 39,000 Total \$ 846,200

Remarks:

Investigation by: Kevin McAlister, Greg Freeman, Brian Gaffney (Benesch); Glen Blankenship (TDOT Survey)
David Duncan, Gena Gilliam, Lisa Reaney (TDOT Planning); Michael Russell (TDOT Design)
Seth Hendren (TDOT ROW); Jason Moody (TDOT Traffic); Carl Stoppenhagen (Gibson Co.)

Route:	Local Route A752 (Creekwood Road)
Description:	Bridge over Branch of Sugar Creek
	L.M. 0.56
County:	Gibson
Length:	N/A
Date:	August 21, 2012

<u>DESCRIPTION</u>	<u>LOCAL</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>TOTAL</u>
Right-of-Way	\$ 4,800	\$ -	\$ 19,200	\$ 24,000
Clearing and Grubbing	\$ 800	\$ -	\$ 3,200	\$ 4,000
Earthwork	\$ 7,200	\$ -	\$ 28,800	\$ 36,000
Railroad Crossing or Separation	\$ -	\$ -	\$ -	\$ -
Drainage	\$ 8,000	\$ -	\$ 32,000	\$ 40,000
Utilities	\$ 7,800	\$ -	\$ 31,200	\$ 39,000
Structures	\$ 64,200	\$ -	\$ 256,800	\$ 321,000
Pavement Removal	\$ 2,700	\$ -	\$ 10,700	\$ 13,400
Paving	\$ 5,000	\$ -	\$ 20,000	\$ 25,000
Roadway and Pavement Appurtenances	\$ -	\$ -	\$ -	\$ -
Retaining Walls	\$ -	\$ -	\$ -	\$ -
Topsoil	\$ -	\$ -	\$ -	\$ -
Seeding	\$ -	\$ -	\$ -	\$ -
Sodding	\$ 2,800	\$ -	\$ 11,200	\$ 14,000
Rip-Rap or Slope Protection	\$ 1,600	\$ -	\$ 6,400	\$ 8,000
Fencing	\$ -	\$ -	\$ -	\$ -
Signing	\$ 400	\$ -	\$ 1,600	\$ 2,000
Pavement Markings	\$ 200	\$ -	\$ 800	\$ 1,000
Lighting	\$ -	\$ -	\$ -	\$ -
Signalization	\$ -	\$ -	\$ -	\$ -
Guardrail	\$ 3,400	\$ -	\$ 13,600	\$ 17,000
Pay Item Quantity Adjustment (15%) ¹	\$ 16,300	\$ -	\$ 65,300	\$ 81,700
Maintenance of Traffic	\$ 8,000	\$ -	\$ 32,000	\$ 40,000
Mobilization (5%)	\$ 6,700	\$ -	\$ 26,600	\$ 33,300
CONSTRUCTION COST (rounded)	\$ 139,900	\$ -	\$ 559,400	\$ 699,400
Engineering and Contingency (10%)	\$ 14,000	\$ -	\$ 55,900	\$ 69,900
TOTAL CONSTRUCTION COST (rounded)	\$ 153,900	\$ -	\$ 615,300	\$ 769,300
Preliminary Engineering (10%)	\$ 15,400	\$ -	\$ 61,500	\$ 76,900
PROJECT COST ²(rounded)	\$ 169,300	\$ -	\$ 676,800	\$ 846,200

¹ For estimating purposes, pay items are adjusted for fluctuation of cost based on quantity.

² For estimating future project costs, a compounded inflation rate of 10% should be applied from the date of this estimate.

TDOT PAY ITEM	TDOT DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
-	Right-of-Way	LS	1	\$ 23,600.00	\$ 23,600
RIGHT-OF-WAY TOTAL (ROUNDED)					\$ 24,000
201-01	Clearing and Grubbing	LS	1	\$ 4,000.00	\$ 4,000
CLEAR AND GRUBBING TOTAL (ROUNDED)					\$ 4,000
203-01	Road and Drainage Excavation	CY	3,556	\$ 10.00	\$ 35,556
EARTHWORK TOTAL (ROUNDED)					\$ 36,000
202-03.01	Removal of Asphalt Pavement	SY	1,333	\$ 10.00	\$ 13,333
PAVEMENT REMOVAL TOTAL (ROUNDED)					\$ 13,400
	Road and Drainage Excavation	LS	1	\$ 40,000.00	\$ 40,000
DRAINAGE TOTAL (ROUNDED)					\$ 40,000
	Gas Line	LF	600	\$ 55.00	\$ 33,000
	Relocate Pole	EA	2	\$ 3,000.00	\$ 6,000
UTILITIES TOTAL (ROUNDED)					\$ 39,000
	New Bridge	SF	1,896	\$ 150.00	\$ 284,364
	Removal of Existing	SF	1,459	\$ 25.00	\$ 36,478
STRUCTURES TOTAL (ROUNDED)					\$ 321,000
RAILROAD CROSSING OR SEPARATION TOTAL (ROUNDED)					\$ -
404-01.01	Bituminous Material (DBST)	TON	5	\$ 1,000.00	\$ 4,848
404-01.02	Min. Agg (DBST)	TON	39	\$ 50.00	\$ 1,933
303-01	Aggregate	TON	902	\$ 20.00	\$ 18,044
PAVING TOTAL (ROUNDED)					\$ 25,000
ROADWAY AND PAVEMENT APPURTENANCES TOTAL (ROUNDED)					\$ -
RETAINING WALLS TOTAL (ROUNDED)					\$ -
712-01	Traffic Control	LS	1	\$ 40,000.00	\$ 40,000
MAINTENANCE OF TRAFFIC TOTAL (ROUNDED)					\$ 40,000
TOPSOIL TOTAL (ROUNDED)					\$ -
SEEDING TOTAL (ROUNDED)					\$ -
803-01	Sodding (New Sod)	SY	2,667	\$ 5.00	\$ 13,333
SODDING TOTAL (ROUNDED)					\$ 14,000
713-11.01	"U" Section Steel Posts	Lbs	144	\$ 4.00	\$ 576
713-13.02	Flat Sheet Aluminum (0.080" Thick)	SF	12	\$ 25.00	\$ 300
713-15.36	Remove existing signs	EA	4	\$ 50.00	\$ 200
SIGNING TOTAL (ROUNDED)					\$ 2,000
716-05.01	Painted Pavement Marking (4" Line)	LM	0.46	\$ 845.00	\$ 389
PAVEMENT MARKINGS TOTAL (ROUNDED)					\$ 1,000

LIGHTING TOTAL (ROUNDED) \$							-
SIGNALIZATION TOTAL (ROUNDED) \$							-
FENCE TOTAL (ROUNDED) \$							-
705-01.01	GR at Bridge Ends	LF	108	\$	75.00	\$	8,100
705-02.02	Single Guardrail (Type 2)	LF	50	\$	18.00	\$	900
705-04.04	Guardrail Terminal (Type 21)	EA	4	\$	2,000.00	\$	8,000
GUARDRAIL TOTAL (ROUNDED) \$							17,000
709-05.06	Class A-1	TON	24	\$	30.00	\$	729
709-05.08	Class B	TON	130	\$	35.00	\$	4,537
709-05.09	Class C	TON	45	\$	40.00	\$	1,815
RIP-RAP OR SLOPE PROTECTION TOTAL (ROUNDED) \$							8,000



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
NASHVILLE, TENNESSEE 37243-0334

MEMORANDUM

TO: Project Planning Office

FROM: Brian Gaffney, P.E.
Alfred Benesch & Company

DATE: December 28, 2012

SUBJECT: TPR Field Review (Special Bridge Replacement Program)
Local Route A752-Creekwood Road over
Branch of Sugar Creek (L.M. 0.56)
Gibson County, PIN 116946.00

A field review was held for the above-mentioned project on July 11, 2012.

The existing structure is 22.9 feet wide by 61.0 feet long and consists of a Double Bituminous Surface treatment over a wood deck with steel I-beams on timber pile abutments. The sufficiency rating for the project overflow bridge is 30.2. Gas pipeline exists along west side of roadway. The 10-year and 100-year discharges and depths of flow for the Branch of Sugar Creek drainage basin were estimated using the appropriate regression equations. The 10-year and 100-year depth of flow estimates were 8.8 feet and 11.1 feet, respectively. The depth of flow estimates did not indicate roadway overtopping, which is not consistent with information provided by local officials. The roadway overtopped in the flood of May 2010.

The roadway segment of Local Route A752 (Creekwood Road) has a base year (2016) AADT of 160 vehicles/day and a design year (2036) AADT of 200 vehicles/day. The proposed structure over the Branch of Sugar Creek will be designed to meet Road Design Standard RD01-TS-1A. The proposed structure is a single span concrete bridge with a total out to out width of 26.33 feet. The structure is to contain two (2) ten foot (10') lanes and two foot (2') shoulders. Though RD01-TS-1A only requires eighteen foot (18') roadway, the proposed width will match existing width of twenty feet (20'). The proposed bridge length is approximately 72 feet. The exact size and type of the structure will be determined by the TDOT Structures Division.

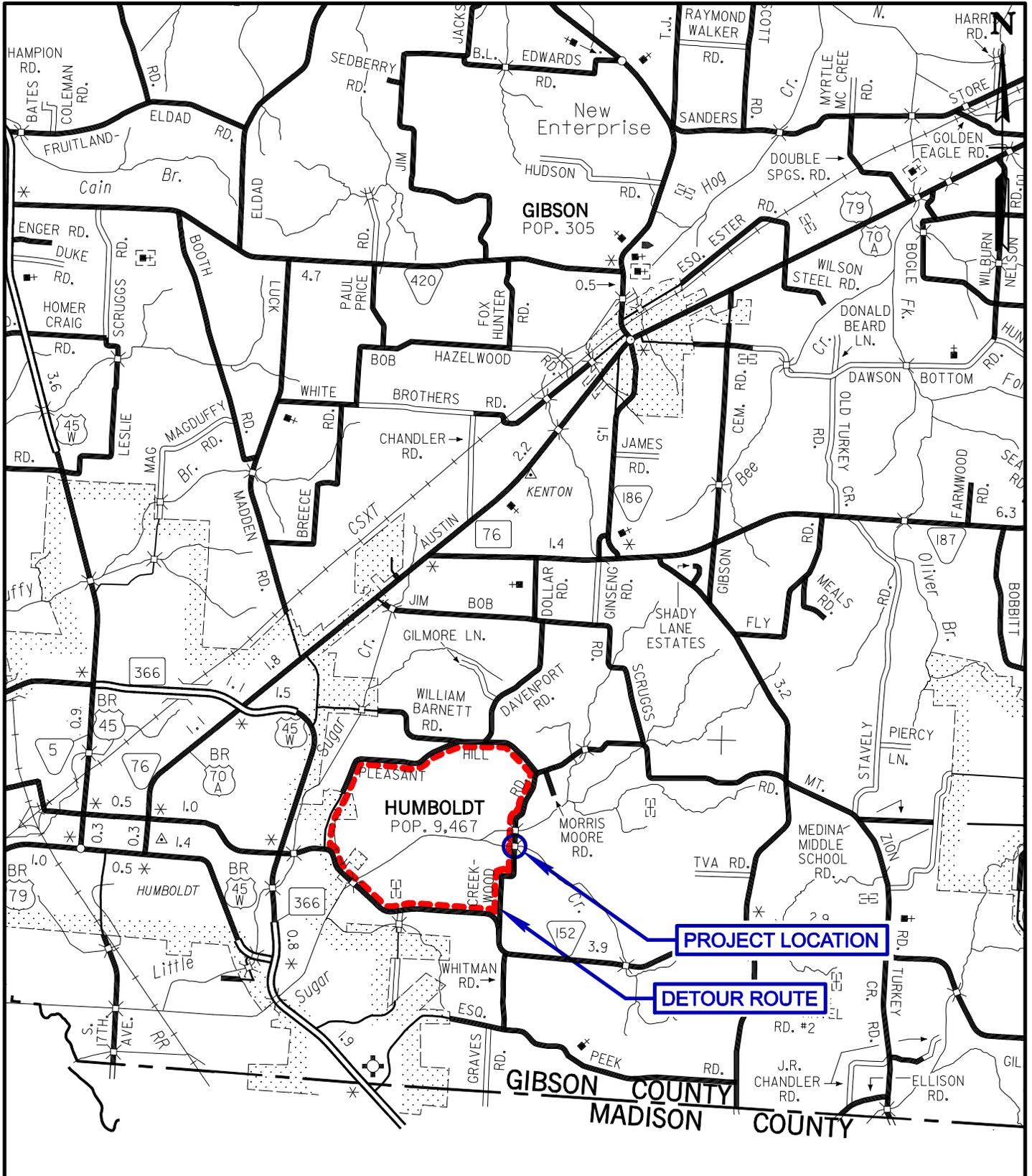
The proposed bridge will raise the grade approximately one and one-half (1.5) feet to maintain the low girder. The horizontal alignment will be shifted approximately three (3) feet to the east to minimize Right-Of-Way impact to the residence on the west side of the roadway. The road will be closed during construction but coordination with the structure at L.M. 0.50 will be necessary to maintain access to the residence. The proposed detour is Pleasant Hill Rd. to SR-152 to Creekwood Rd, a total distance of 3.7 miles.

The required approach work, utility relocations, estimated replacement cost, and preliminary engineering are approximately \$846,200.

CHECK LIST OF DETERMINANTS FOR LOCATION STUDY

If any of the following facilities or ESE categories are located within the project area or corridor, place an "x" in the blank opposite the item. Where more than one alternate is to be considered, place its letter designation in the blank.

1.	Agricultural land usage		X
2.	Airport (existing or proposed)		
3.	Commercial area, shopping center		
4.	Floodplains		X
5.	Forested land		
6.	Historical, cultural, or natural landmark		
7.	Industrial park, factory		
8.	Institutional usages		
	a. School or other educational institution		
	b. Church or other religious institution		
	c. Hospital or other medical facility		
	d. Public building, e.g., fire station		
	e. Defense installation		
9.	Recreation usages		
	a. Park or recreational area		
	b. Game preserve or wildlife area		
10.	Residential establishment		
11.	Urban area, town, city, or community		X
	(Humbolt, Population 9467)		
12.	Waterway, lake, pond, river, stream, spring		X
	(Permit required: Coast Guard		
	Section 404	X	
	TVA Section 26a review		
	NPDES	X	
	Aquatic Resource Alteration	X	
13.	Other		
14.	Location coordinated with local officials		X
15.	Railroad crossings		
16.	Hazardous materials site		



DETOUR MAP

COUNTY:	GIBSON	CITY:	N/A
	LR A752 (CREEKWOOD RD.)		
	PIN 116946.00		
SCALE:	1" = 1 MILE	DATE:	06-01-12

**TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT PLANNING DIVISION**

PROJECT NO.: 99109-1453-04 ROUTE: Creekwood Road
 COUNTY: Gibson CITY: Humbolt
 PROJECT PIN NUMBER: _____
 PROJECT DESCRIPTION: Bridge over Branch of Sugar Creek on Creekwood Road
L.M. 0.56

DIVISION REQUESTING:

MAINTENANCE	<input type="checkbox"/>	PAVEMENT DESIGN	<input type="checkbox"/>
PLANNING	<input checked="" type="checkbox"/>	STRUCTURES	<input type="checkbox"/>
PROG. DEVELOPMENT & ADM.	<input type="checkbox"/>	SURVEY & DESIGN	<input type="checkbox"/>
PUBLIC TRANS. & AERO.	<input type="checkbox"/>	TRAFFIC SIGNAL DESIGN	<input type="checkbox"/>
YEAR PROJECT PROGRAMMED FOR CONSTRUCTION:	_____	OTHER _____	<input type="checkbox"/>
PROJECTED LETTING DATE:	_____		

TRAFFIC ASSIGNMENT:

BASE YEAR		DESIGN YEAR					DESIGN ROADWAY % TRUCKS		DESIGN AVERAGE DAILY LOADS	
AADT	YEAR	AADT	DHV	%	YEAR	DIR.DIST.	DHV	AADT	FLEX	RIGID
160	2016	200	28	14	2036	65-35	2	3		

REQUESTED BY: NAME Gena Gilliam DATE 5/11/12
 DIVISION Project Planning
 ADDRESS 10th Floor, JKP Bldg
Nashville, TN 37243

REVIEWED BY: TONY ARMSTRONG Tony Armstrong DATE 5-18-12
 TRANSPORTATION MANAGER 1
 SUITE 1000, JAMES K. POLK BUILDING

APPROVED BY: DUDLEY DANIEL Dudley Daniel DATE 21 May 12
 TRANSPORTATION MANAGER 2
 SUITE 1000, JAMES K. POLK BUILDING

COMMENTS:

This Traffic is based on 2005 Bridge Count from ADAM. The Future Traffic Count is based on the Growth Rate from the ADAM Computer Program.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

NOTE: FOR BRIDGE REPLACEMENT PROJECTS, ADLs ARE NOT REQUIRED FOR ADTs OF 1000 OR LESS AND PERCENTAGE OF TRUCKS OF 7% OR LESS.

SEE ATTACHMENTS FOR TURNING MOVEMENTS AND/OR OTHER DETAILS.

(REV. 4/10/12)

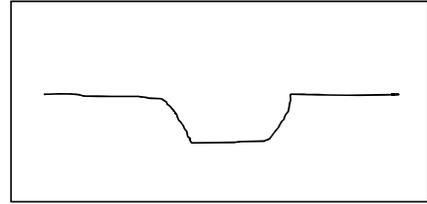
TPR ON SITE INSPECTION REPORT

FOR STREAM CROSSINGS

INSPECTION MADE BY: KM/GF BRIDGE NO.: 270A7520003 COUNTY: Gibson
 Date: 6/8/12 Route Name: A752-Creekwood Road Stream Name: Branch of Sugar Creek @ L.M. 0.56

CHANNEL

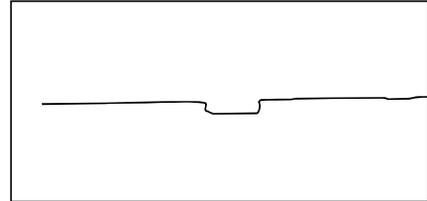
Approx depth and width of channel: Hor.: 26' Vert: 13'
 Depth of normal flow: 0 In Reservoir: ___ Yes X No
 Depth of Ordinary H.W.: 3-4'
 Type of material in stream bed: Sand
 Type of vegetation on banks: Thick brush
 "N" factor of the channel: 0.030
 Are channel banks stable: Yes
 If the streambed is gravel: $D_{30} = \underline{\quad}$ $D_{85} = \underline{\quad}$
 Skew of the channel with the roadway: 80 °



Channel Shape Sketch

FLOODPLAIN

Is the skew same as the channel? YES
 Is it symmetrical about the channel? YES
 Type of vegetation in the floodplain and "N" factors
 Left U.S.: Cultivated field Right U.S.: Cultivated field
 Left D.S.: Cultivated field Right D.S.: Grass
 Are roadway approaches lower than the structure? NO
 Are there any buildings in the floodplain? One farm house
 Approx. floor elevations: ± 3' from bridge deck
 Flood information from local residents:
 (elevations & dates) N/A



Floodplain Sketch

EXISTING STRUCTURE

Length: 61 No. of spans: 3 Structure type: Steel I-Beam No. of lanes: 2 Skew: 90 °
 Width (out to out): 23.92' Width (curb to curb): 22.92' Approach: paved graveled
 Sidewalks (left,right): N/A Bridgerail type: Wheel Guard Bridgerail height = N/A
 Superstructure depth: Finished Grade to low girder = 24" Girder depth = 16"
 Are any substructures in the channel? NO Area of opening = FT²
 Indications of overtopping: YES
 High water marks: Debris in the superstructure
 Local scour: NO
 Any signs of stream aggradation or degradation? NO
 Any drift or drift potential? NO
 Any obstructions (pipes,stock fences,etc.)? NO

PROPOSED STRUCTURE

Replacement
 Rehabilitate
 Widening
 New
 Abandon

Bridge length: 72' Bridge type: Concrete Span Span arrangement: Single Span Skew: 90 °
 Bridge width: 26.33' Sidewalks: N/A Design Speed (MPH): 30 ADT (2036) = 200
 Proposed grade: Raise One and One-half (1.5) Feet Proposed alignment: Shift Three (3) Feet East
 Method of maintaining traffic: ___ Stage construction ___ On site detour X Close road ___ Shift Centerline () FT
 Cost of proposed Structure: \$150 per FT² 72' / 26.33' length (ft) / width (ft) Cost = \$284,364
 Cost of bridge removal: \$25 per FT² 61 / 23.92' length (ft) / width (ft) Cost = \$36,478
 Detour structure: Type and size = NONE Cost = \$0
Total Structure Cost = \$321,000

**Bridge APR Flow Calculations
For Hydraulic Area 4
Area > 486 Acres**

County	<u>Gibson</u>
Bridge No.	<u>270A7520003</u>
Route No.	<u>0A752 Creekwood Road</u>
Feature Crossed	<u>Branch of Sugar Creek</u>
Log Mile	<u>0.56</u>

By	<u>GF</u>
Date	<u>6/1/12</u>
PIN	<u>116946.00</u>

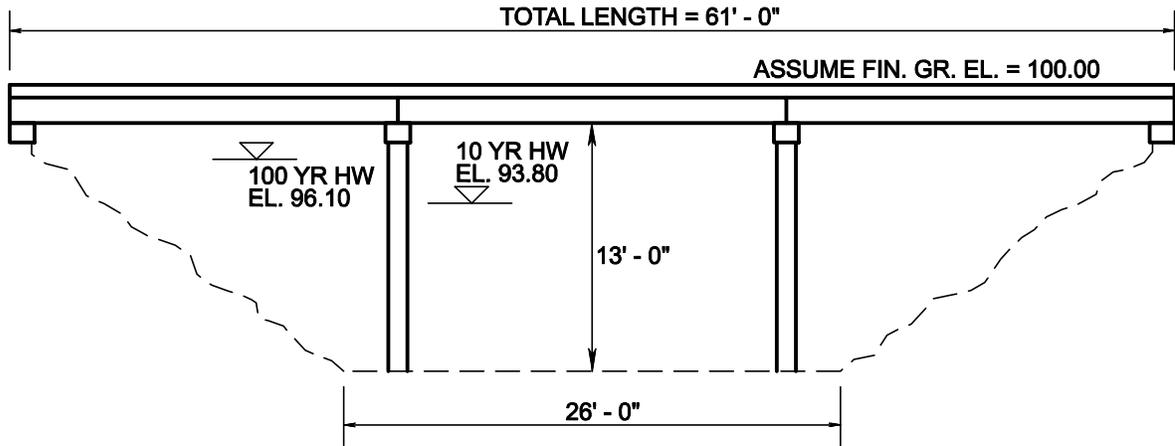
Drainage Area	<u>3,170</u> acres
	<u>4.96</u> sq. mi.

USGS REGRESSION EQUATIONS FOR FLOW:

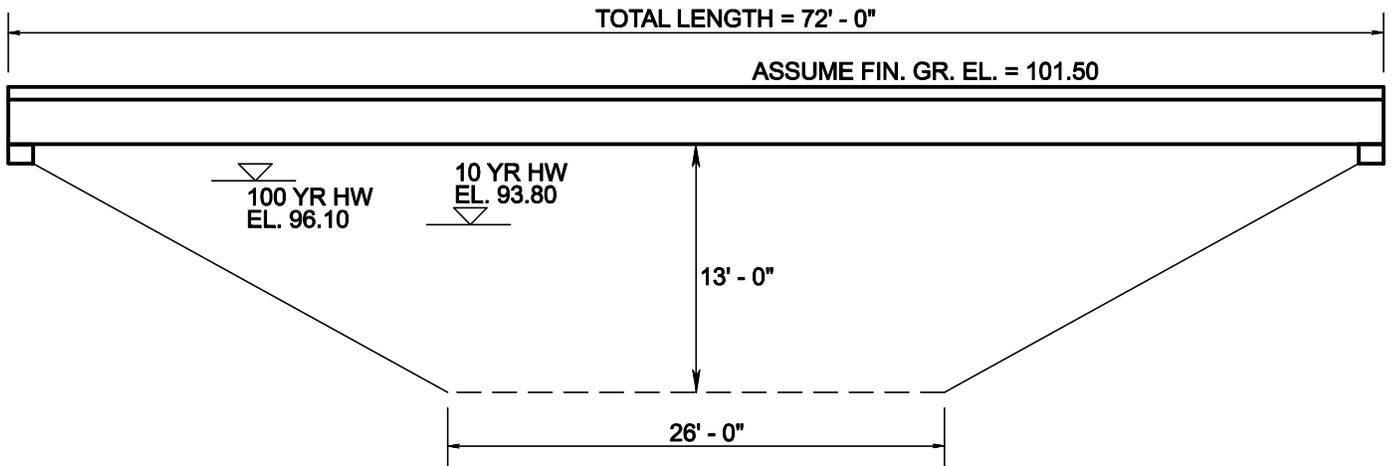
Q2=436*(CDA) ^{0.527} =	1,014	cfs
Q5=618*(CDA) ^{0.545} =	1,479	cfs
Q10=735*(CDA) ^{0.554} =	1,785	cfs
Q25=878*(CDA) ^{0.564} =	2,166	cfs
Q50=981*(CDA) ^{0.570} =	2,444	cfs
Q100=1080*(CDA) ^{0.575} =	2,712	cfs

DEPTH OF FLOW EQUATIONS

10 Year Flood Depth = 6.98(CDA) ^{0.142} =	8.8 ft.
100 Year Flood Depth = 9.24(CDA) ^{0.116}	11.1 ft.



EXISTING STRUCTURE



PROPOSED STRUCTURE



**BRIDGE
PROFILE**

COUNTY:	GIBSON	CITY:	N/A
LR A752 (CREEKWOOD RD.)			
PIN 116946.00			
SCALE:	N.T.S.	DATE:	06-25-12

Project Photographs
Transportation Planning Report
A752-Creekwood Road L.M. 0.56
Bridge Over Branch of Sugar Creek
Gibson County
Date Photos Taken: 06/08/2012



Photograph 1

Bridge Number
27-A752-0-56



Photograph 2

Southern approach.

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Photograph 3
View looking south from bridge.



Photograph 4
Northern approach.

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Photograph 5

View looking north from bridge.



Photograph 6

Upstream.

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Photograph 7

Upstream left.



Photograph 8

Upstream right.

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Photograph 9

Downstream.



Photograph 10

Downstream left.

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Photograph 11

Downstream right.



Photograph 12

Inlet.

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Photograph 13

Side view of outlet.



Photograph 14

Northern abutment and superstructure.

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Gibson County
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Photograph 15

View of the piers and (damaged) cross-bracing.



Photograph 16

Weight limit sign posted on both approaches.