

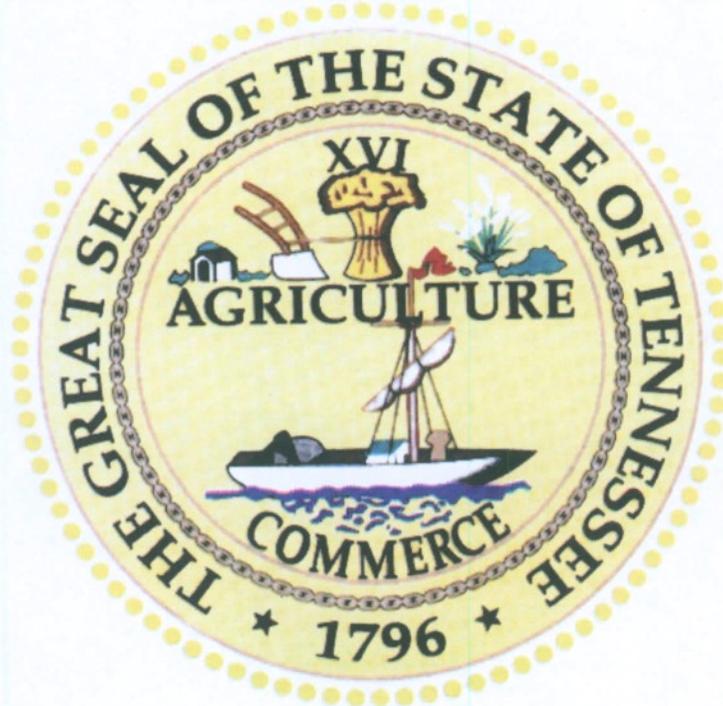
TRANSPORTATION PLANNING REPORT

Special Bridge Replacement Program

LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD) L.M. 3.29

POLK COUNTY

PIN 117923.00



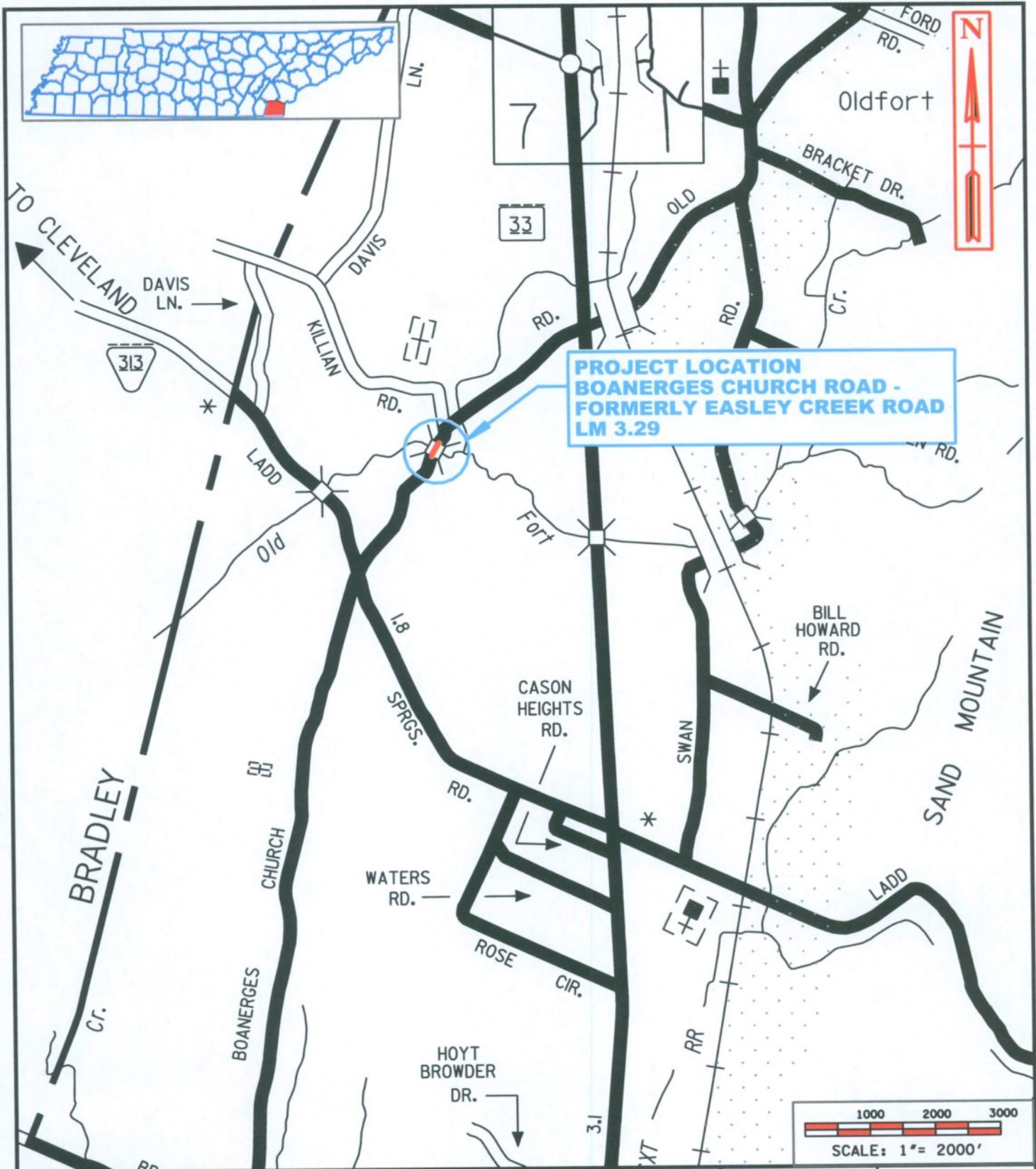
PREPARED BY
ARCADIS
FOR THE
TENNESSEE DEPARTMENT OF TRANSPORTATION

Approved by [Signature] Date _____
Chief of Environment and Planning

Approved by [Signature] Date 6/21/13
Deputy Commissioner and Chief Engineer

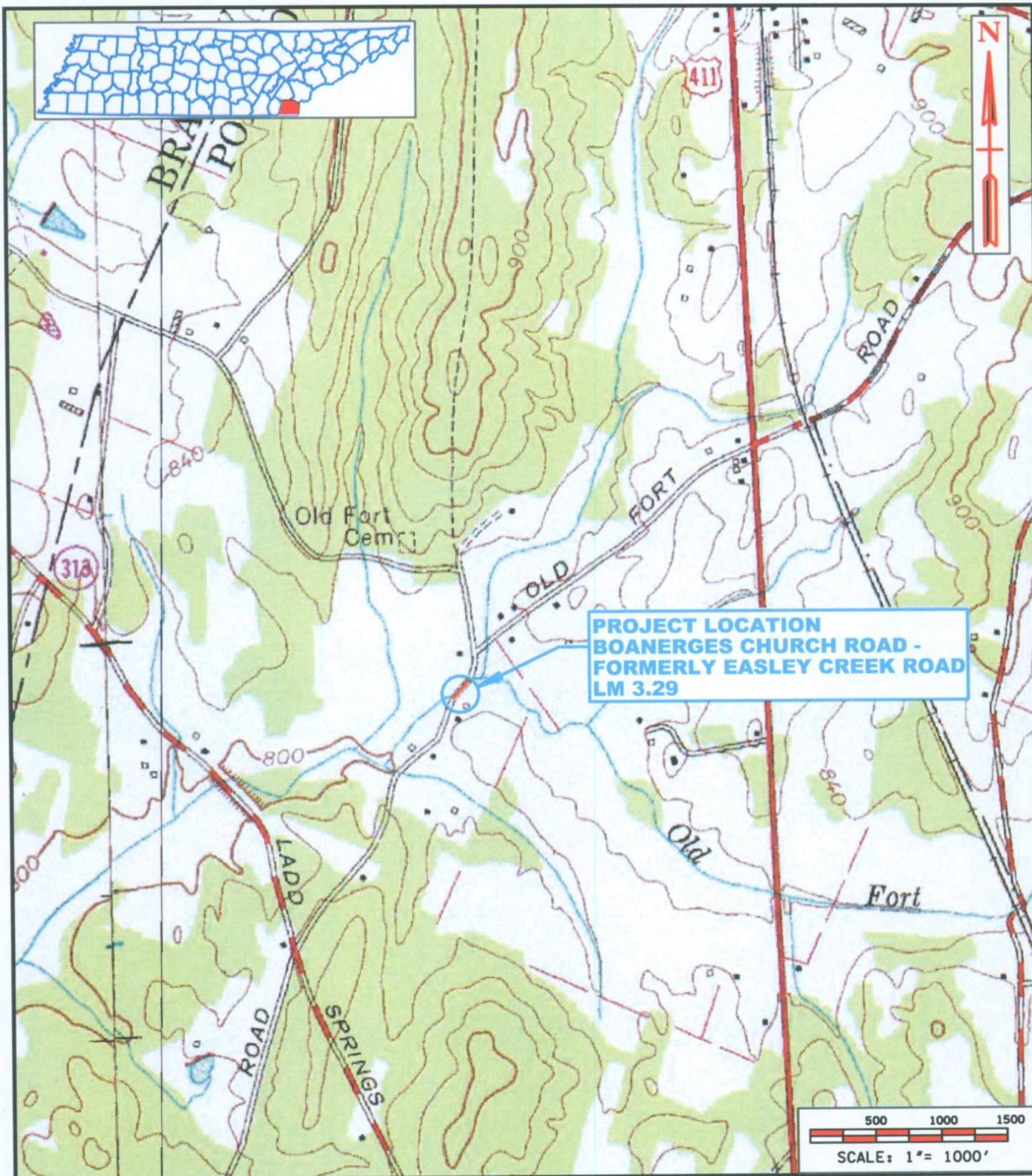
Approved by:	Signature:	Date:
Transportation Director Project Planning Division	<u>[Signature]</u>	6-10-13
Engineering Director Design Division	<u>[Signature]</u>	6-11-13
Engineering Director Structures Division	<u>[Signature]</u>	6-13-13

This document is covered by 23 USC § 409 and its production pursuant to fulfilling public planning requirements does not waive the provisions of § 409.

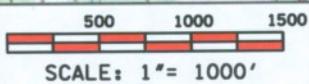


LOCATION MAP
LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD
- FORMERLY EASLEY CREEK ROAD)
BRIDGE OVER OLD FORT CREEK
L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN

DRAWN BY: BJH	CHECKED BY: HAM
LOCAL ROUTE 0A207 L.M. 3.29	
PIN 117923.00	
DATE: 03-11-2013	

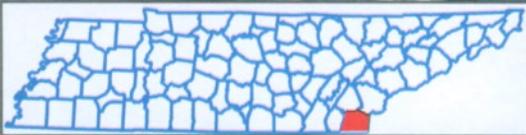


**PROJECT LOCATION
BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD
LM 3.29**

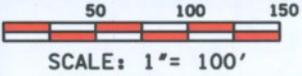


**VICINITY MAP
LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD)
BRIDGE OVER OLD FORT CREEK
L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN**

DRAWN BY: BJH	CHECKED BY: HAM
LOCAL ROUTE 0A207 L.M. 3.29	
PIN 117923.00	
DATE: 03-11-2013	



**PROJECT LOCATION
BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD
LM 3.29**



**AERIAL MAP
LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD)
BRIDGE OVER OLD FORT CREEK
L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN**

<small>DRAWN BY:</small> BJH	<small>CHECKED BY:</small> HAM
LOCAL ROUTE 0A207 L.M. 3.29	
PIN 117923.00	
<small>DATE:</small>	03-11-2013

**TRANSPORTATION PLANNING WORKSHEET
BRIDGE REPLACEMENT ANALYSIS, NEEDS, AND COSTS**

County: Polk Route: 0A207 (Boanerges Church Rd- formerly Easley Creek Rd) Log Mile: 3.29
 Feature Crossed: Old Fort Creek System: Local
 Functional Class: Local Rural Road Bridge ID: 700A2070001

EXISTING CONDITIONS

2016 AADT: 300 App. Cross Section: 20'/21'/30' No. Lanes: 2
 Approach Alignment: Curve Year Built: 1970 Load Limit: 18 Tons
 Width (out to out): 21' Sidewalks: Right -- Left -- Length: 24'11"
 No. Spans: Approach: -- Main: 1
 Substructure: Concrete/Abutment Vertical Clearance: 7' Sufficiency Rating: 49.6
 Other: Overhead Utility Lines

PROPOSED IMPROVEMENTS

STANDARDS FROM RD01-TS- 1A Type of Work: Replace
 Design Year: 2036 Design AADT: 330 Terrain Rolling ADL (F): -- (R): --
 Proj. Length: 145' Bridge Length: 35 ft Approach Length: 110'
 Design Speed (MPH): 35 Posted Speed (MPH): 35
 Approach Width: 20'/24'/As Req'd Bridge Width (O to O): 26 ft No. Lanes: 2
 Right-of-Way Req.: 0.04 ac Tract(s) 2 Structure Type: (2) 14'x10' Box Bridge

MAINTENANCE OF TRAFFIC

Temporary Detour: Temporary Runaround: Stage Construct:
 Alternate Route: North on Boanerges Church Road, then south on US 411 (SR 33), then west on Ladd Springs Road (SR 313) (Approximately 4 Miles or less than 10 minutes)
 Remarks: Single phase construction utilizing above detour route. A detour map is provided on Figure 2. Polk County Highway Officials are in agreement with the Detour Route.

ESTIMATED COST

Right-of-Way: \$5,000 Approaches: \$81,200 Structure: \$103,600
 Preliminary Engineering: \$23,000 Utilities: \$9,200 Misc./Cont.: \$21,000
 Mobilization: \$10,000 Total: \$253,000

Remarks: Local match is \$51,000.

Field Investigation by: Glenda Tyus (Planning), Lisa Reaney (Planning), Alan Wolfe (Reg. 2 Traffic), Gary Chapman (Reg. 2 Survey), Landon Castleberry (Reg. 2 Traffic), Amber Thornton (Reg. 2 Traffic), Barry McClendon (Reg. 2 Survey) Roy Thomason (Polk Co. Hwy Official), Harvey McKaig and Karen Anderson (ARCADIS)

Route:	0A207 (Boanerges Church Road - formerly Easley Creek Road)
Description:	Bridge over Old Fort Creek (700A2070001)
	L.M. 3.29
County:	Polk
Length:	145 ft
Date:	March 11, 2013

<u>DESCRIPTION</u>	<u>LOCAL</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>TOTAL</u>
Right-of-Way	\$ 1,000	\$ -	\$ 4,000	\$ 5,000
Clearing and Grubbing	\$ 1,000	\$ -	\$ 4,000	\$ 5,000
Earthwork	\$ 1,050	\$ -	\$ 4,200	\$ 5,250
Railroad Crossing or Separation	\$ -	\$ -	\$ -	\$ -
Drainage	\$ 300	\$ -	\$ 1,200	\$ 1,500
Utilities	\$ 1,800	\$ -	\$ 7,400	\$ 9,200
Structures	\$ 20,700	\$ -	\$ 82,900	\$ 103,600
Pavement Removal	\$ 700	\$ -	\$ 2,800	\$ 3,500
Paving	\$ 2,200	\$ -	\$ 8,800	\$ 11,000
Roadway and Pavement Appurtenances	\$ -	\$ -	\$ -	\$ -
Retaining Walls	\$ -	\$ -	\$ -	\$ -
Topsoil	\$ 140	\$ -	\$ 560	\$ 700
Seeding	\$ 540	\$ -	\$ 2,160	\$ 2,700
Sodding	\$ -	\$ -	\$ -	\$ -
Rip-Rap or Slope Protection	\$ 800	\$ -	\$ 3,100	\$ 3,900
Fencing	\$ -	\$ -	\$ -	\$ -
Signing	\$ -	\$ -	\$ -	\$ -
Pavement Markings (Stop Bar)	\$ -	\$ -	\$ -	\$ -
Lighting	\$ -	\$ -	\$ -	\$ -
Signalization	\$ -	\$ -	\$ -	\$ -
Guardrail	\$ 2,500	\$ -	\$ 10,000	\$ 12,500
Other Construction Items (15%)	\$ 4,900	\$ -	\$ 19,700	\$ 24,600
Maintenance of Traffic	\$ 2,000	\$ -	\$ 8,000	\$ 10,000
Mobilization (5%)	\$ 2,000	\$ -	\$ 8,000	\$ 10,000
CONSTRUCTION COST (rounded)	\$ 42,000	\$ -	\$ 167,000	\$ 209,000
Engineering and Contingency (10%)	\$ 4,000	\$ -	\$ 17,000	\$ 21,000
TOTAL CONSTRUCTION COST (rounded)	\$ 46,000	\$ -	\$ 184,000	\$ 230,000
Preliminary Engineering (10%)	\$ 5,000	\$ -	\$ 18,000	\$ 23,000
PROJECT COST ¹(rounded)	\$ 51,000	\$ -	\$ 202,000	\$ 253,000

¹ For estimating future project costs, a compounded inflation rate of 10 % should be applied from the date of this estimate.

Polk County

Local Route 0A207 (Boanerges Church Road -
formerly Easley Creek Road) LM 3.29

Pay Item Summary

TDOT PAY ITEM	TDOT DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
-	Right-of-Way	LS	LS	\$ 5,000.00	\$ 5,000
RIGHT-OF-WAY TOTAL (ROUNDED)					\$ 5,000
201-01	Clearing and Grubbing	LS	LS	\$ 5,000.00	\$ 5,000
CLEAR AND GRUBBING TOTAL (ROUNDED)					\$ 5,000
203-03	Borrow Excavation (Unclassified)	CY	350	\$ 15.00	\$ 5,250
EARTHWORK TOTAL (ROUNDED)					\$ 5,250
202-03.01	Removal of Asphalt Pavement	SY	700	\$ 5.00	\$ 3,500
PAVEMENT REMOVAL TOTAL (ROUNDED)					\$ 3,500
209-08.02	Temporary Silt Fence (w/ backing)		450	\$ 3.25	\$ 1,470
DRAINAGE TOTAL (ROUNDED)					\$ 1,500
	Relocating Overhead Utilities	LF	420	\$ 10.00	\$ 4,200
770-18.10	35FT Wood Pole	EA	1	\$ 5,000.00	\$ 5,000
UTILITIES TOTAL (ROUNDED)					\$ 9,200
	Removal of Existing Bridge	SF	525	\$ 15.00	\$ 8,000
	Box Bridge	SF	910	\$ 105.00	\$ 95,600
STRUCTURES TOTAL (ROUNDED)					\$ 103,600
--	Full Depth Paving	SY	250	\$ 44.00	\$ 11,000
PAVING TOTAL (ROUNDED)					\$ 11,000
712-01	Traffic Control	LS	1	\$ 10,000.00	\$ 10,000
MAINTENANCE OF TRAFFIC TOTAL (ROUNDED)					\$ 10,000
203-07	Furnishing & Spreading Topsoil	CY	70	\$ 10.00	\$ 700
TOPSOIL TOTAL (ROUNDED)					\$ 700
801-01	Seeding (With Mulch)	UNIT	50	\$ 40.00	\$ 2,000
801-03	Water	MG	100	\$ 7.00	\$ 700
SEEDING TOTAL (ROUNDED)					\$ 2,700
705-01.01	Metal Beam Guard Fence (Guardrail)	LF	90	\$ 50.00	\$ 4,500
705-04.07	Type 21 End Terminal	EACH	4	\$ 2,000.00	\$ 8,000
GUARDRAIL TOTAL (ROUNDED)					\$ 12,500
709-05.09	Machined Rip-Rap (Class B)	TON	130	\$ 30.00	\$ 3,900
RIP-RAP OR SLOPE PROTECTION TOTAL (ROUNDED)					\$ 3,900



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

PROJECT PLANNING DIVISION
SUITE 1000, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243
(615) 741-2208

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

MEMORANDUM

TO: Project Planning Office

FROM: Clint Butler, P.E.
ARCADIS

DATE: May 22, 2013

SUBJECT: TPR Field Review (Special Bridge Replacement Program)
Local Route 0A207 (Boanerges Church Road; formerly known as Easley Creek Road), Bridge over Old Fort Creek, Log Mile 3.29, Polk County
PIN 117923.00

A field review was held for the above-mentioned project on January 17, 2013.

The existing structure consists of single span continuous steel beam bridge with a concrete substructure and an out-to-out width of twenty one (21) feet. Overall bridge length is twenty four (24) feet eleven (11) inches with approximately seven (7) feet of vertical clearance. Bridge sufficiency rating is 49.6. The 10-year and 100-year discharges and depths of flow for the drainage basin were determined using the appropriate regression equations. The calculated 100-year flow depth is 9.4 feet and the 10-year flow depth is 6.9 feet. There is no evidence overtopping has occurred.

The proposed alignment for this structure will remain on the existing centerline and will be designed to meet the TDOT design standard RD01-TS-1A for a design speed of 35 mph with a posted 35 mph speed limit. Roadway grade will be raised approximately two (2) foot in order to clear the 100 year storm event. Construction of the proposed structure is to be completed in a single phase. A detour will be required; north on Boanerges Church Road, then south on US 411 (SR 33), then west on Ladd Springs Road (SR 313) for approximately 4 miles. A detour map is provided on Figure 2. Polk County Highway Officials are in agreement with the detour route.

The route has a base year (2016) AADT of 300 and a design year (2036) AADT of 330. The proposed bridge over Old Fort Creek will consist of an out-to-out width of twenty six (26) feet with two (2) ten (10) foot lanes. The proposed structure is to be a two (2) span box bridge with a total length of approximately thirty five (35) feet. The proposed vertical clearance will be raised two (2) foot to properly convey the 100 year flow depth of 9.4 feet. Right-of-way (approximately

1600 square feet) is expected to be acquired on two (2) tracts of land for the installation of the proposed structure. (See Figure 1).

The required approach work, right-of-way, estimated replacement and preliminary engineering costs for this bridge are approximately \$253,000. A local match of \$51,000 will be required. Local Highway Officials agree to fund the match.

CB

cc: file

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		X
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 (Cemetery)		X
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		X
11. Urban area, town, city, or community		
12. Waterway, lake, pond, river, stream, spring		
Permit required:	Coast Guard	
	Section 404	X
	TVA Section 26a review	X
	NPDES	X
	Aquatic Resource Alteration	X
13. Other		
14. Location coordinated with local officials		X
15. Railroad crossings		
16. Hazardous materials site		

**TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT PLANNING DIVISION**

PROJECT NO.: _____ ROUTE: 0A207
 COUNTY: Polk CITY: _____
 PROJECT PIN NUMBER: 117923.00
 PROJECT DESCRIPTION: Bridge over Old Fort Creek on Easley Crrek Rd.
L.M. 3.29

DIVISION REQUESTING:

MAINTENANCE PAVEMENT DESIGN
 PLANNING STRUCTURES
 PROG. DEVELOPMENT & ADM. SURVEY & DESIGN
 PUBLIC TRANS. & AERO. TRAFFIC SIGNAL DESIGN
 OTHER
 YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: _____
 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
300	2016	330	43	13	2036	65-35	1	1		

REQUESTED BY: NAME Lisa Reaney DATE 10/30/12
 DIVISION Planning
 ADDRESS 10th Floor, JK Polk Bldg.
Nashville, TN 37243

REVIEWED BY: TONY ARMSTRONG Tony Armstrong DATE 10-30-12
 TRANSPORTATION MANAGER 1
 SUITE 1000, JAMES K. POLK BUILDING

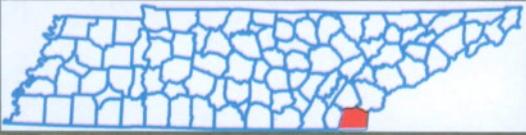
APPROVED BY: DUDLEY DANIEL Dudley Daniel DATE 30 Oct 12
 TRANSPORTATION MANAGER 2
 SUITE 1000, JAMES K. POLK BUILDING

COMMENTS:

This Traffic is based on 1999 Structure Count. The Future Traffic is based on 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.



1

BURRELL JACKY

EXISTING UTILITY POLES

PROPOSED R.O.W.

BOANERGES CHURCH ROAD

OLD FORT CREEK

PROPOSED R.O.W.

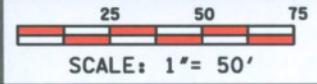
(2) 14' x 10'
BOX BRIDGE

2

MORGAN JAMES R & NELL M LE
& PHILLIP MORGAN

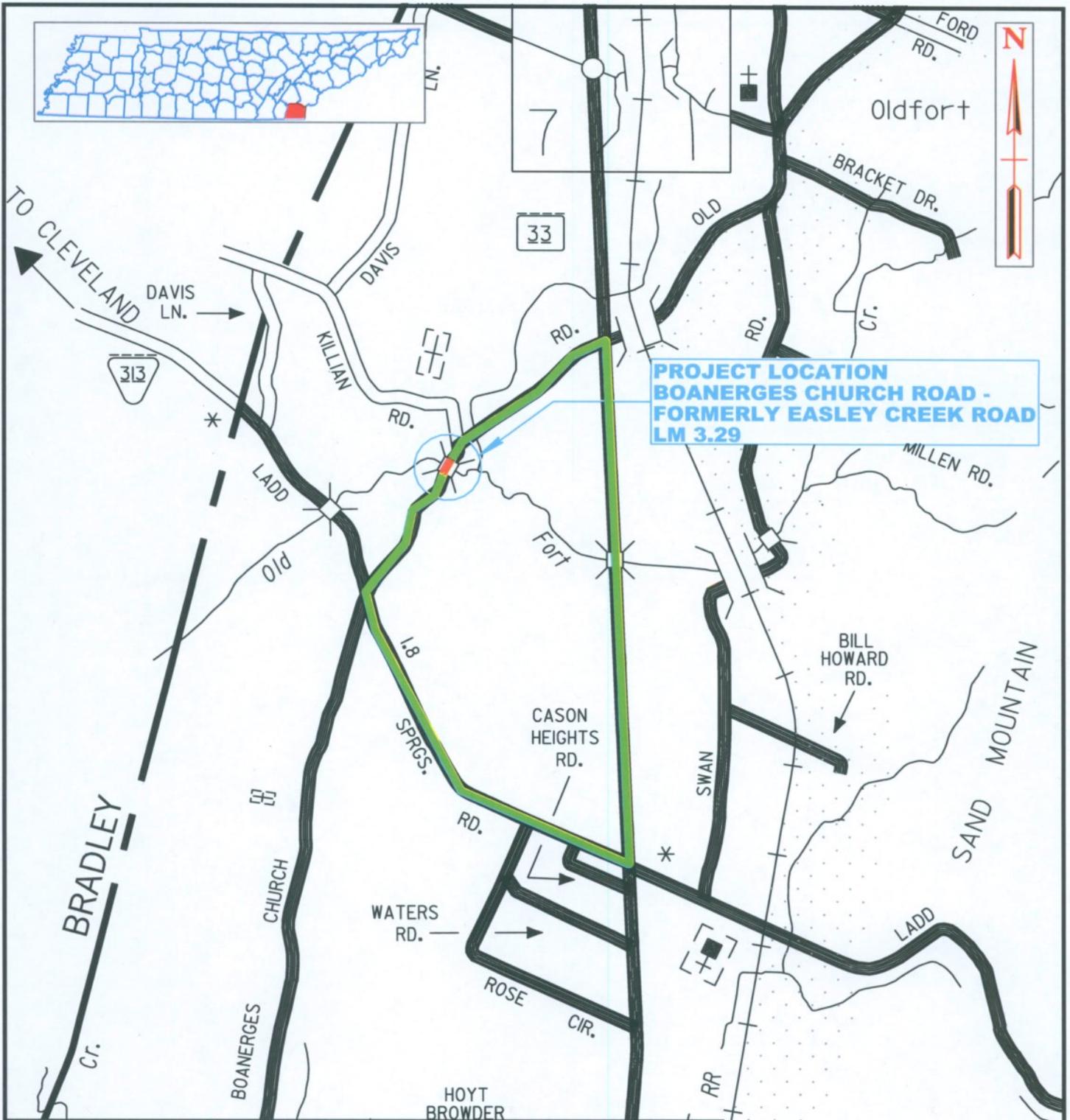
20' PAVED ROADWAY

EXISTING UTILITY POLES



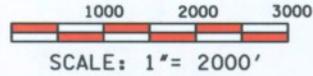
BRIDGE REPLACEMENT
LOCAL ROUTE 0A207 BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD
BRIDGE OVER OLD FORT CREEK @ L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN

DRAWN BY: BJH	CHECKED BY: HAM
LOCAL ROUTE 0A207 L.M. 3.29	
PIN 117923.00	
FIGURE 1	DATE: 03-11-2013



**PROJECT LOCATION
BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD
LM 3.29**

THRU TRAFFIC DETOUR ROUTE (APPROX. 4 MILES)



**DETOUR MAP
LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD)
BRIDGE OVER OLD FORT CREEK
L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN**

DRAWN BY:

BJH

CHECKED BY:

HAM

LOCAL ROUTE 0A207 L.M. 3.29

PIN 117923.00

FIGURE 2

DATE:

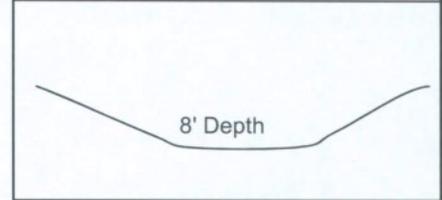
03-11-2013

SITE INSPECTION

INSPECTION MADE BY: Karen Anderson and Harvey McKaig BRIDGE ID: 700A2070001 COUNTY: Polk
 Date: 1/17/13 Route Name: 0A207 (Boanerges Church Road - formerly Easley Creek Road) Stream Name: Old Fort Creek @ L.M. 3.29

CHANNEL

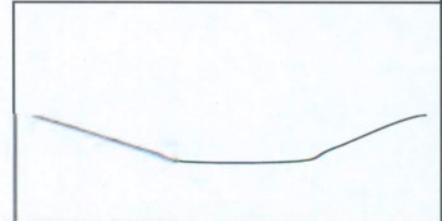
Approx depth and width of channel: Horizontal: 21'10" Vertical: 7'
 Depth of normal flow: 2'10" In Reservoir: Yes No
 Depth of Ordinary High Water: 3'9"
 Type of material in stream bed: Rock, Mud and Clay
 Type of vegetation on banks: Trees and Vegetation
 "N" factor of the channel: 0.035
 Are channel banks stable: Yes No
 If the streambed is gravel: D₃₀ = -- D₈₅ = --
 Skew of the channel with the roadway: 60°



Channel Shape Sketch

FLOODPLAIN

Is the skew same as the channel? Yes No
 Is it symmetrical about the channel? Yes No
 Type of vegetation in the floodplain and "N" factors
 Left U.S.: Dense Brush (0.070) Right U.S.: Dense Brush (0.070)
 Left D.S.: Dense Brush (0.070) Right D.S.: Dense Brush (0.070)
 Are roadway approaches lower than the structure? Yes No
 Are there any buildings in the floodplain? Yes No
 Approx. floor elevations: -
 Flood information from local residents (elevations & dates) Local representatives did not recall an overtopping event.



Floodplain Sketch
Upstream

EXISTING STRUCTURE

Length: 24'11" No. of spans: 1 Structure type: Steel Continuous No. of lanes: 2 Skew: 60°
 Width (out to out): 21' Width (curb to curb): - Approach: paved graveled
 Sidewalks on Structure: Yes No Bridgerail type: Guardrail Bridgerail height = 1'11"
 Superstructure depth: 2'1" Finished Grade to low girder = 11" Girder depth = 1'2"
 Are any substructures in the channel? Yes No Vertical Clearance = 7.0 ft
 Indications of overtopping: No
 High water marks: No
 Local scour: Yes, Upstream Right No
 Any signs of stream aggradation or degradation? Sediment visible in structure
 Any drift or drift potential? Yes, Brush and Tree Limbs No
 Any obstructions (pipes, stock fences, etc.)? Metal Fence/Tree Limbs

PROPOSED STRUCTURE

Replacement Rehabilitate Widening New Location
 Bridge length: 35 ft Bridge type: Box Bridge Span arrangement: 2 @ 14'x10' Skew: 60°
 Bridge width: 26.0 ft Sidewalks: None Design Speed (MPH): 35 ADT (2036) = 330
 Proposed grade: Increase 2 ft Proposed alignment: Maintain Existing
 Method of maintaining traffic: Stage construction On site detour Close road Shift Centerline
 Cost of proposed Structure: \$105 per ft² X 35 / 26 length (ft) / width (ft) Cost = \$95,600
 Cost of bridge removal: \$15 per ft² X 25 / 21.0 length (ft) / width (ft) Cost = \$8,000
 Detour structure: Type and size = N/A Cost = \$0
Total Structure Cost = \$103,600

**Bridge TPR Flow Calculations
For Hydrologic Area 2
Area > 300 Acres**

County: Polk
 Bridge ID: 700A2070001
 Route: 0A207 (Boanerges Church Road -
 formerly Easley Creek Road)
 Feature Crossed: Old Fort Creek
 Log Mile: 3.29

By: CB
 Date: 3/6/13
 PIN: 117923.00

DRAINAGE BASIN

Measurement from quad = 2,350 acres
 Contributing Drainage Area, CDA = acres/640 = 3.67 sq. mi.

USGS REGRESSION EQUATIONS FOR FLOW

$Q_2 = 207(CDA)^{0.725} =$ 531 cfs
 $Q_5 = 344(CDA)^{0.715} =$ 872 cfs
 $Q_{10} = 444(CDA)^{0.711} =$ 1,119 cfs
 $Q_{25} = 578(CDA)^{0.708} =$ 1,451 cfs
 $Q_{50} = 682(CDA)^{0.706} =$ 1,708 cfs
 $Q_{100} = 788(CDA)^{0.705} =$ 1,971 cfs

DEPTH OF FLOW EQUATIONS

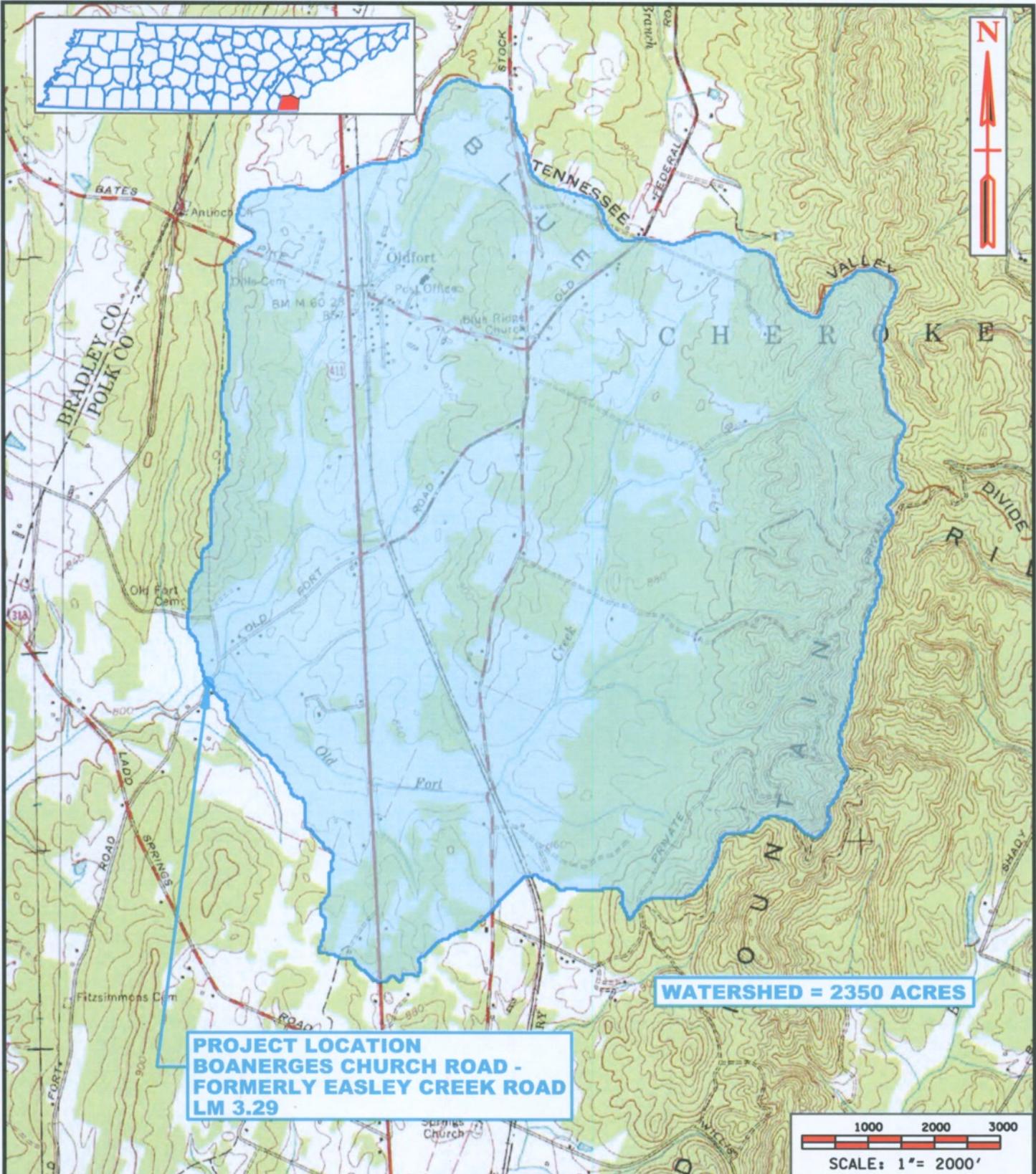
10-Year Flood Depth = $5.33(CDA)^{0.197} =$ 6.9 ft
 100-Year Flood Depth = $7.43(CDA)^{0.181} =$ 9.4 ft

AREAS

Existing Area Below Low Chord = 127 ft²
 Proposed Area Below Low Chord = 280 ft²
 Proposed 10-Year Flood Area, $A_{10} =$ 194 ft²
 Proposed 100-Year Flood Area, $A_{100} =$ 264 ft²

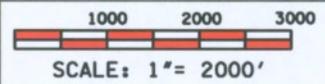
VELOCITIES

Proposed 10-Year Flood Velocity, $V_{10} = Q_{10}/A_{10} =$ 5.8 fps
 Proposed 100-Year Flood Velocity, $V_{100} = Q_{100}/A_{100} =$ 7.5 fps



**PROJECT LOCATION
BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD
LM 3.29**

WATERSHED = 2350 ACRES

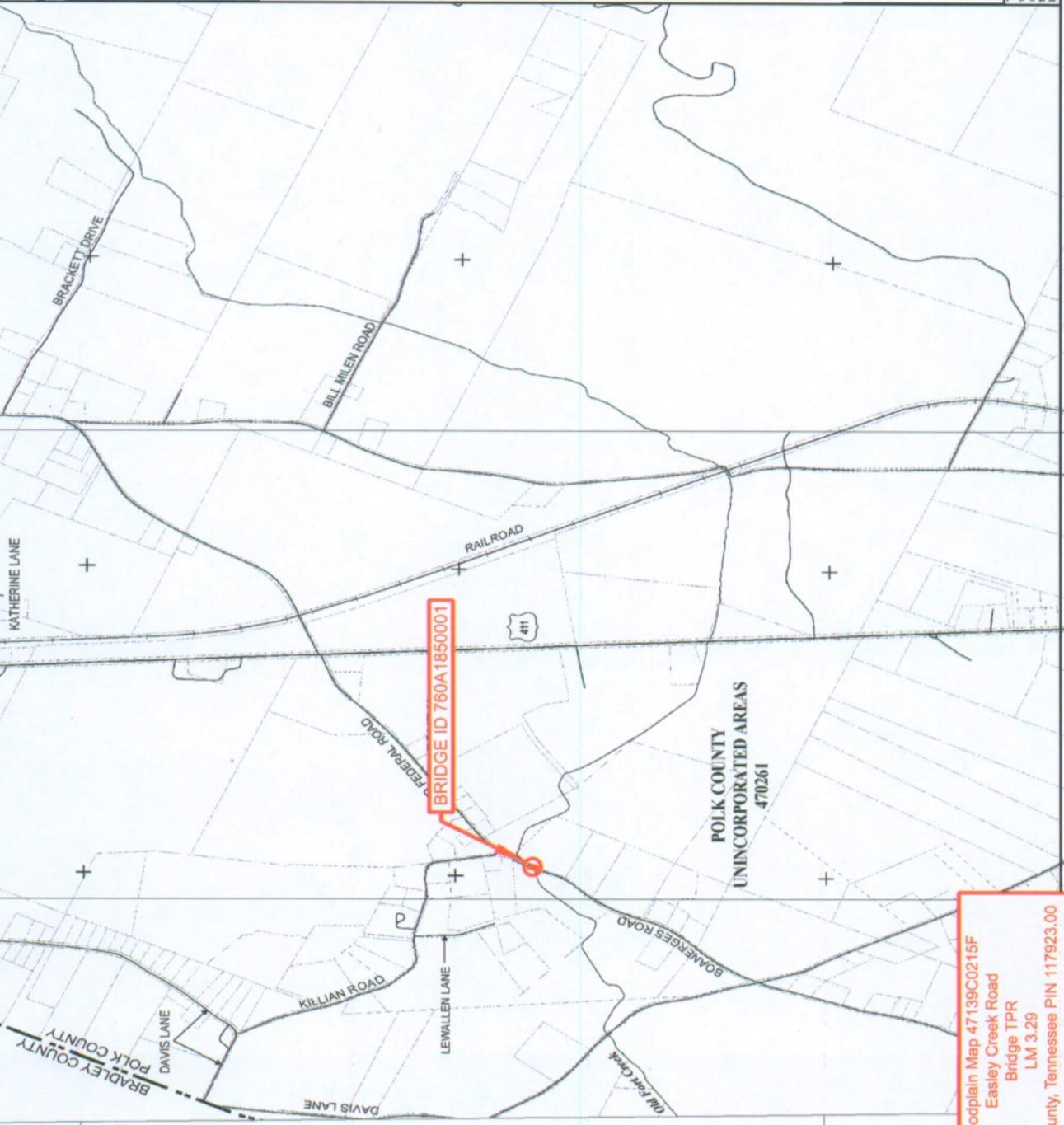
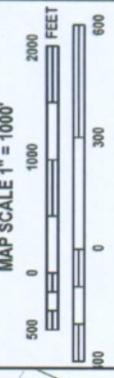


**WATERSHED MAP
LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD)
BRIDGE OVER OLD FORT CREEK
L.M. 3.29
BRIDGE NUMBER 700A2070001
POLK COUNTY, TN**

DRAWN BY: BJH	CHECKED BY: HAM
LOCAL ROUTE 0A207 L.M. 3.29	
PIN 117923.00	
DATE: 03-11-2013	

JOINS PANEL 0205

84° 45' 00"
5° 3' 45"



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0215F

FIRM

FLOOD INSURANCE RATE MAP

POLK COUNTY, TENNESSEE AND INCORPORATED AREAS

PANEL 215 OF 425
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONGRESS	NUMBER	PANEL	SUBPANEL
CITY	4209	0215	F

Polk County

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used for insurance applications for the subject community.

MAP NUMBER
47139C0215F

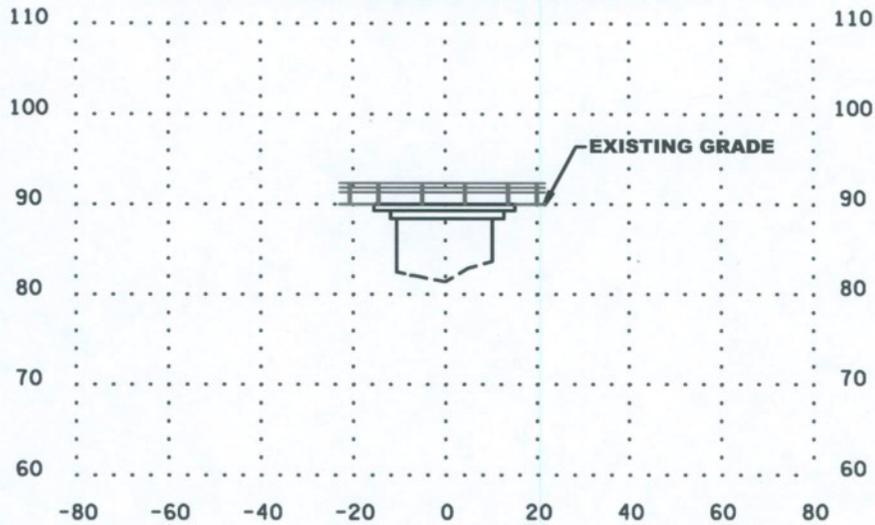
EFFECTIVE DATE
MAY 18, 2009

Federal Emergency Management Agency

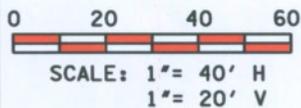
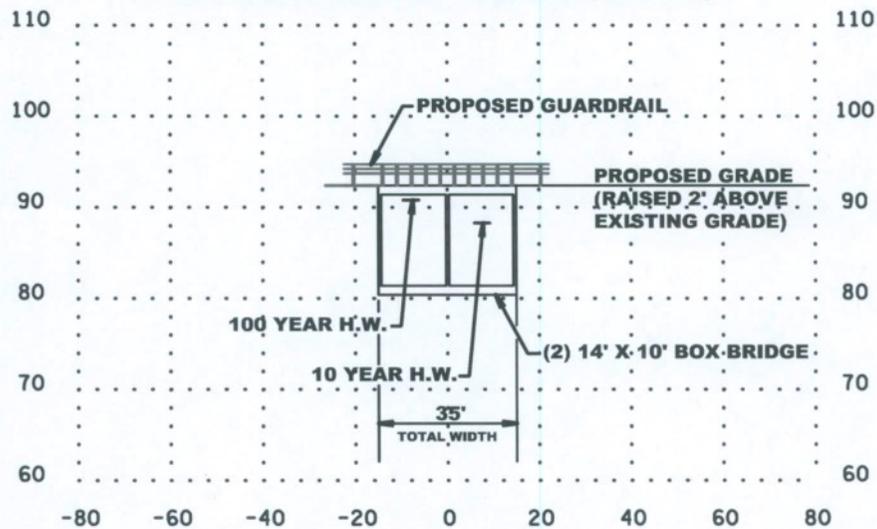
Floodplain Map 47139C0215F
Easley Creek Road
Bridge IPR
LM 3.29
Polk County, Tennessee PIN 117923.00

This is an official copy of a portion of the above referenced flood map. It is intended only for informational purposes. This map does not constitute an offer of insurance. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Show at www.nac.fema.gov

EXISTING STRUCTURE (INLET)



PROPOSED STRUCTURE (INLET)



BRIDGE SECTIONS

**LOCAL ROUTE 0A207 (BOANERGES CHURCH ROAD -
FORMERLY EASLEY CREEK ROAD) POLK COUNTY
BRIDGE OVER OLD FORT CREEK @ L.M. 3.29
BRIDGE ID 700A2070001**

Bridge ID: 700A2070001
Polk County



View of Structure (Outlet)



View of Structure (Inlet)

Bridge ID: 700A2070001
Polk County



Northbound from Bridge on Easley Creek Road



Southbound from Bridge on Easley Creek Road

Bridge ID: 700A2070001
Polk County



Northbound Bridge Approach on Easley Creek Road



Southbound Bridge Approach on Easley Creek Road

Bridge ID: 700A2070001
Polk County

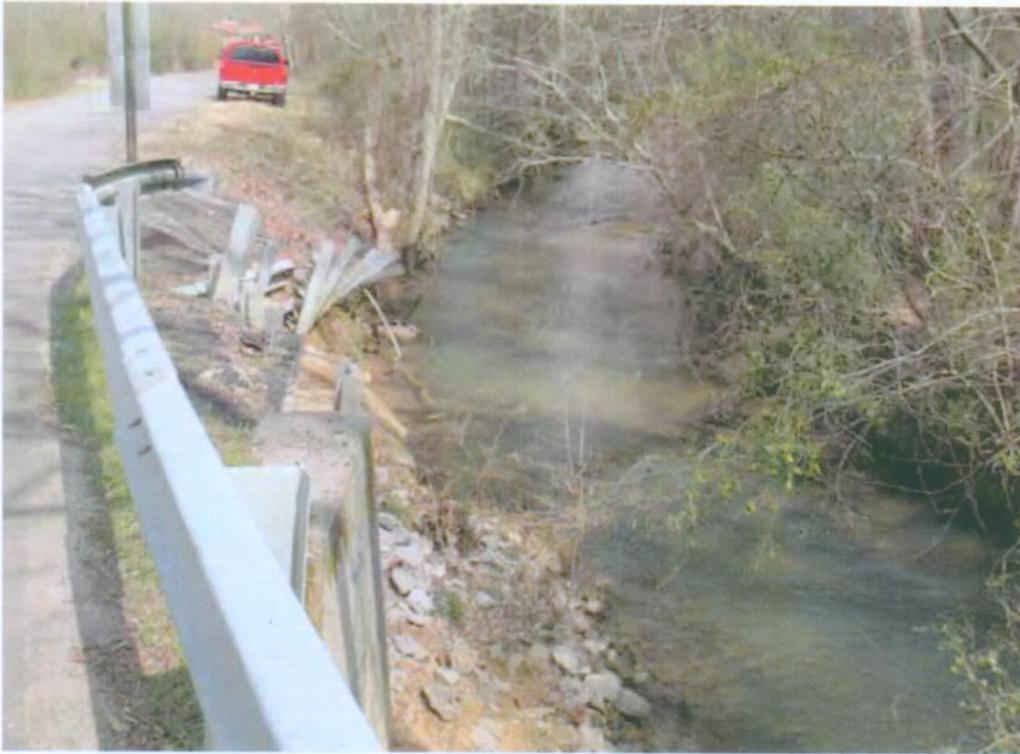


Upstream



Downstream

Bridge ID: 700A2070001
Polk County



Upstream Left



Upstream Right

Bridge ID: 700A2070001
Polk County



Downstream Left



Downstream Right