#### CONTRACT NO. 95543

## STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

# PLANS FOR PROPOSED **HIGHWAY BRIDGE PROGRAM**

## FRIENDS CREEK ROAD DISTRICT FRIENDS CREEK TOWNSHIP SECTION 05-04163-00-BR TR 23 OVER FRIENDS CREEK **MACON COUNTY**

PROJECT NO. BROS-115 (64) JOB NO. C-97-057-08

#### **LOCATION MAP**

NET LENGTH 510.00 FEET = 0.10 MILES

THE PROPOSED IMPROVEMENT CONSISTS OF REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH 3 SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM (21" DEPTH) BRIDGE, PILE BENT PIERS, PILE BENT ABUTMENTS, 24' CLEAR ROADWAY AND 152 BACK TO BACK ABUTMENTS, 35 DEGREE SKEW, AND OTHER MINOR COLLATERAL WORK.



## MACON 22



FUNCTIONAL CLASSIFICATION - LUCAL ROAD 2008 ADT = 0 (BRIDGE CLOSED)2028 ADT = 25DESIGN SPEED = 30

# Manuer Carl 20 Releasing For Bid Based on

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

#### **INDEX OF SHEETS**

- **COVER SHEET**
- **GENERAL NOTES AND QUANTITIES**
- TYPICAL SECTIONS & DETAILS
- GRADING PLAN
- PLAN AND PROFILE
- 6-12 BRIDGE PLANS
- 13-22 CROSS SECTIONS

#### STANDARDS

515001-02 NAME PLATE FOR BRIDGES

635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT

TRAFFIC CONTROL DEVICES

SIGN PANEL MOUNTING DETAILS

720006 - SIGN PANEL ERECTION DETAILS

METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS 720011

729001 APPLICATIONS OF TYPES A & B METAL POSTS

(FOR SIGNS AND MARKERS)

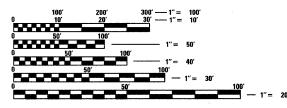
BLR 21-7 TYPICAL APPLICATION OF TRAFFIC CONTROL

**DEVICES FOR CONSTRUCTION ON** 

**RURAL LOCAL HIGHWAYS** 

### TRAFFIC BARRIER TERMINAL, TYPE-5A

#### Revised 4-2-08



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

HLC PROJECT NO. 5129 HLC FIELD BOOK NO. 314 PROPOSED ·

SECTION 05-04163-00-BR BEGINS STATION 6+50.00 ENDS STATION 11+60.00 PROPOSED STRUCTURE NO. 058-3383

TOTAL LENGTH 510.00 FEET = 0.10 MILES

#### CONTRACT NO. 95543

 ROUTE NO.	SECTION	COUNTY	COUNTY TOTAL SHEET NO.		
TR 23	*	MACON		22	2
FED.ROAD DIST	I.NO.	ILLINOIS	PROJEC	ROJECT	

\*05-04163-00-BR

#### SUMMARY OF QUANTITIES

X080-2A
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[	CODE NUMBER	PAY ITEM	UNIT	TOTAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	86
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	48
	20200100	EARTH EXCAVATION	CU YD	363
[	20300100	CHANNEL EXCAVATION	CU YD	3232
[	20400800	FURNISHED EXCAVATION	CU YD	1089
•	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6
[	28100207	STONE RIPRAP, CLASS A4	TON	796
	28200200	FILTER FABRIC	SQ YD	1098
[	35101400	AGGREGATE BASE COURSE, TYPE B	TON	330
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	89
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	70
	50300225	CONCRETE STRUCTURES	CU YD	39. 9
	50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3600
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3710
Ī	50900205	STEEL RAILING, TYPE S1	F00T	300
Ī	51201105	FURNISHING METAL SHELL PILES, 14"	F00T	585
Ī	51202305	DRIVING PILES	F00T	585
I	51203200	TEST PILE METAL SHELL	EACH	2
	51500100	NAME PLATES	EACH	1
Ī	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	48
Δ	<del>63100075</del>	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	<b>2</b> )
Ī	66500105	WOVEN WIRE FENCE, 4'	F00T	409
Ī	66502300	WOVEN WIRE FENCE REMOVAL	F00T	408
•	67100100	MOBILIZATION	L SUM	1
•	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
Ī	72000100	SIGN PANEL - TYPE 1	SQ FT	10
	72500100	OBJECT MARKER - TYPE 1	EACH	2
Ī	72900100	METAL POSTS - TYPE A	F00T	44
۱ ۰ ۵	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
L		Specialty Items	<u> </u>	L

Revised 4-2-08

△ Specialty Items

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#### EARTHWORK SCHEDULE

	1	2	3	4	
	20200100			20400800	
	EARTH	•EXCAVATION TO BE	*EMBANKMENT	FURNISHED	
LOCATION	EXCAVATION	USED IN EMBANKMENT	(FILL)	EXCAVATION	
		(ADJUSTED FOR SHRINKAGE)			
		(COL 1 X 0.75)		(COL 2 - COL 3)	
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	
6+50.00 TO 11+60.00	363	272	1361	1089	
EARTH EXCAVATION SHRINK	AGE FACTOR = 25%				
ITEMS MARKED WITH AN ASTERISK (*) ARE FOR INFORMATIONAL PURPOSES ONLY					

## GENERAL NOTES

1. The Engineer shall not guarantee the work of any Contractor or Subcontractor, shall have no supervision of the persons doing the work, shall have no charge of the work, shall not be responsible for safety in, on, or about the job site or have any control of the safety or adequacy of any equipment, building component, scaffolding, support, forms or other work aids. In addition, the Standard Specifications for Road and Bridge Construction shall be modified as follows:

Under Section 105, add the following sentence: Nothing contained herein shall relieve the Contractor of his/her duties to observe and comply with all applicable laws, nor shall the Engineer be responsible for the Contractor's compliance with such laws.

Under Article 107.01, add the following sentence: The Engineer shall not be responsible for the Contractor's duty to observe and comply with the provisions of this article, or for the Contractor's failure to do so.

- All elevations are based on U.S.G.S. Mean Sea Level datum. The proposed grade elevations shown on the plan and profile sheets and station cross sections are the elevations for the finished surface at the locations indicated.
- 3. The following rates were used in calculating quantities for this project:

Aggregate Base Course/Aggregate Shoulders: 2.05 Tons/ CU YD Riprap: 1.5 Tons/ CU YD

- 4. Proposed profile grade is shown at the top of the aggregate base course.
- 5. Woven wire fence that is not to be salvaged and stockpiled shall become the property of the Contractor and shall be removed and disposed of according to the requirements of Article 202.03. Fence removal and disposal shall be paid for at the contract unit price per foot as Woven Wire Fence Removal

	GENERAL NOTES AND QUANTITIES	
REVISIONS	SECTION 05-04163-00-BR TR 23 OVER FRIENDS CREEK	DRAWN BY DATE DLB 07/06
No. DATE INITIALS	MACON COUNTY	CHECKED BY DATE GLF 07/06
3	HOMER L. DECATUR CHICAGO	BOOK NUMBER
5	CHASTAIN (217) 422-8544 (775) 714-0050	PROJECT No. 5129
7 8	& ASSOCIATES, LLP	SHEET No.
9	184-001397 (815) 489-0050	SHEET NO.

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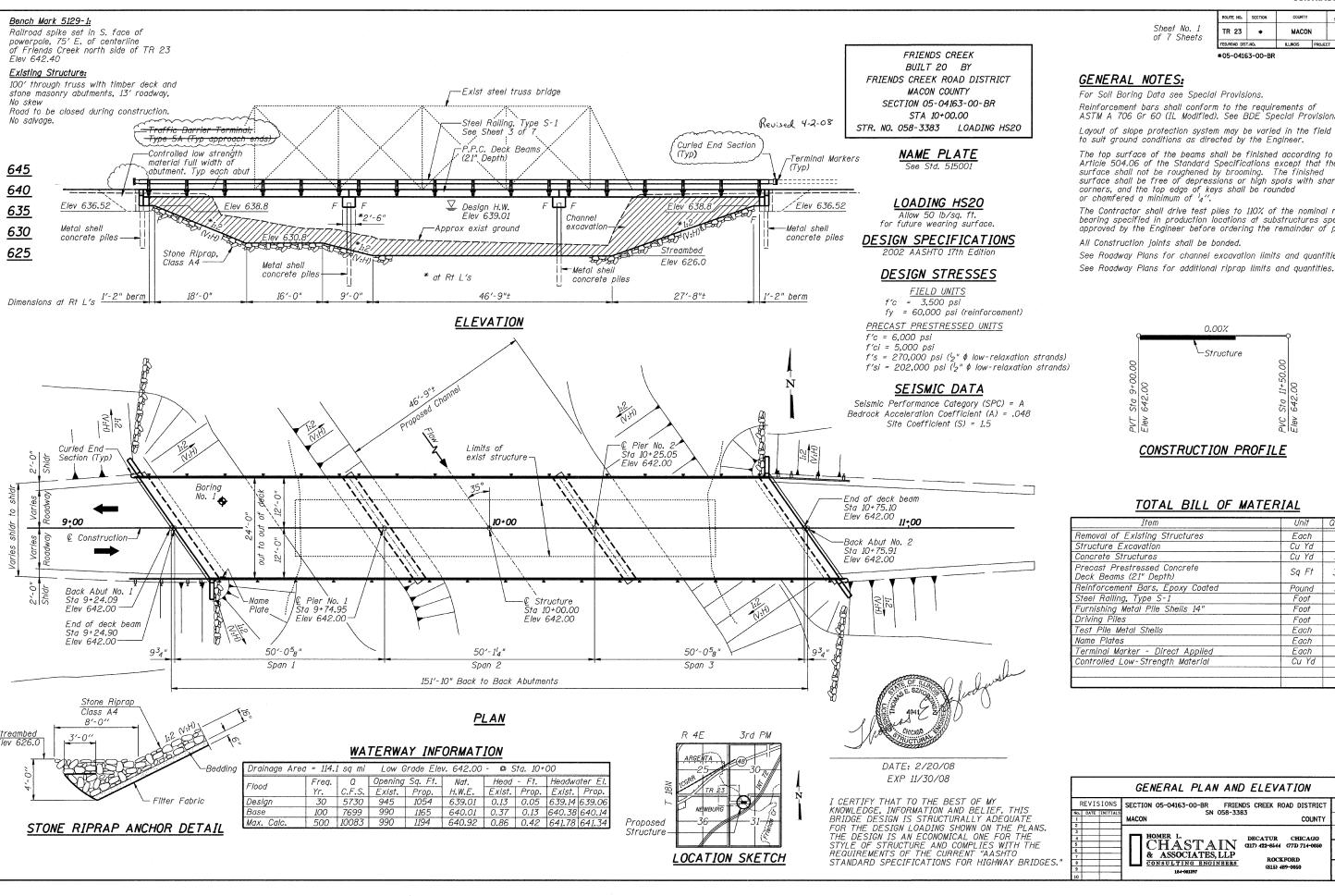
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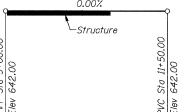
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See BDE Special Provisions

Layout of slope protection system may be varied in the field

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

See Roadway Plans for channel excavation limits and quantities.



#### CONSTRUCTION PROFILE

#### TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	70
Concrete Structures	Cu Yd	39.9
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	3600
Reinforcement Bars, Epoxy Coated	Pound	3710
Steel Railing, Type S-1	Foot	300
Furnishing Metal Pile Shells 14"	Foot	585
Driving Piles	Foot	585
Test Pile Metal Shells	Each	2
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4
Controlled Low-Strength Material	Cu Yd	48

	GENERAL PLAN AND ELEVATION						
REVISIONS		SIONS	SECTION 05-04163-00-BR FRIENDS CREEK ROAD DISTRICT	DRAWN BY DATE R KING 11/07			
No.	DATE	INITIALS	SN 058-3383 COUNTY	CHECKED BY DATE JMB 11/07			
3			HOMER L. DECATUR CHICAGO	BOOK NUMBER 314			
5			CHASTAIN (217) 422-8544 (775) 714-0050	PROJECT No. 5129			
7			& ASSOCIATES, LLP CONSULTING ENGINEERS ROCKFORD	SHEET No.			
9			184-001397 (815) 489-0050				