T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	97-12113-02-BR	HAMILTON	15	5
FED. ROAD DIST. NO. 9	ILLINOIS	CONTRARY CREEK		
PROJECT BROS-065(036)		CONTRACT # 95280		

LEC JOB # 1051.010HM

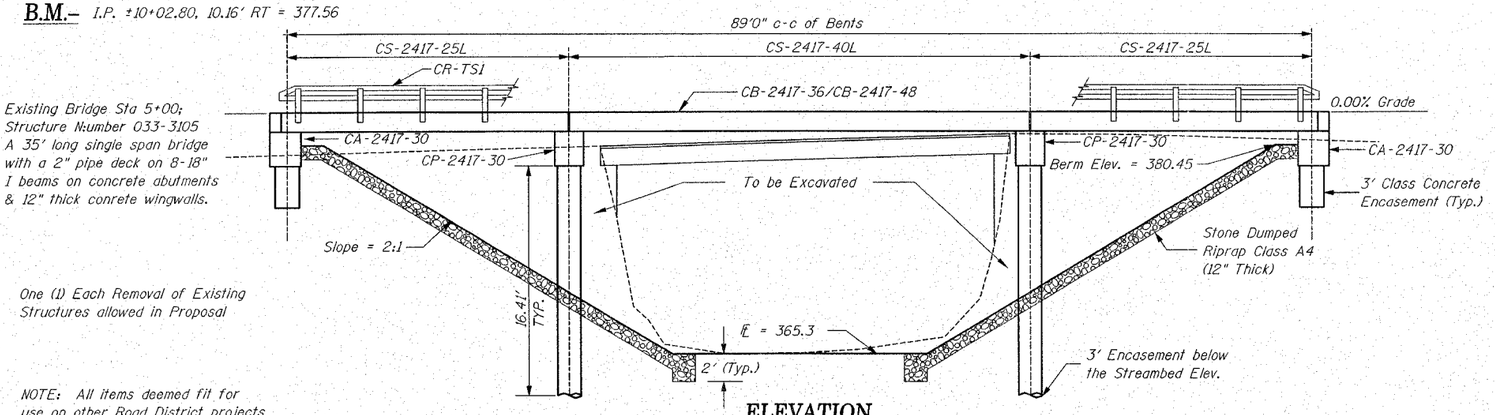
323 W. 3RD ST.
P.O. BOX 160
MT. CARMEL, IL
62863
PHONE:
(618)-262-8651
FAX:
(618)-263-3327

405 W. STATE ST.
SUITE1
PRINCETON, IN
47670
PHONE:
(812)-386-7611
FAX:
(812)-385-2812

LAMAC ENGINEERING CO.

PROFESSIONAL LAND SURVEYING FIRM:
048-000082
PROFESSIONAL ENGINEERING CORPORATION:
184-000887

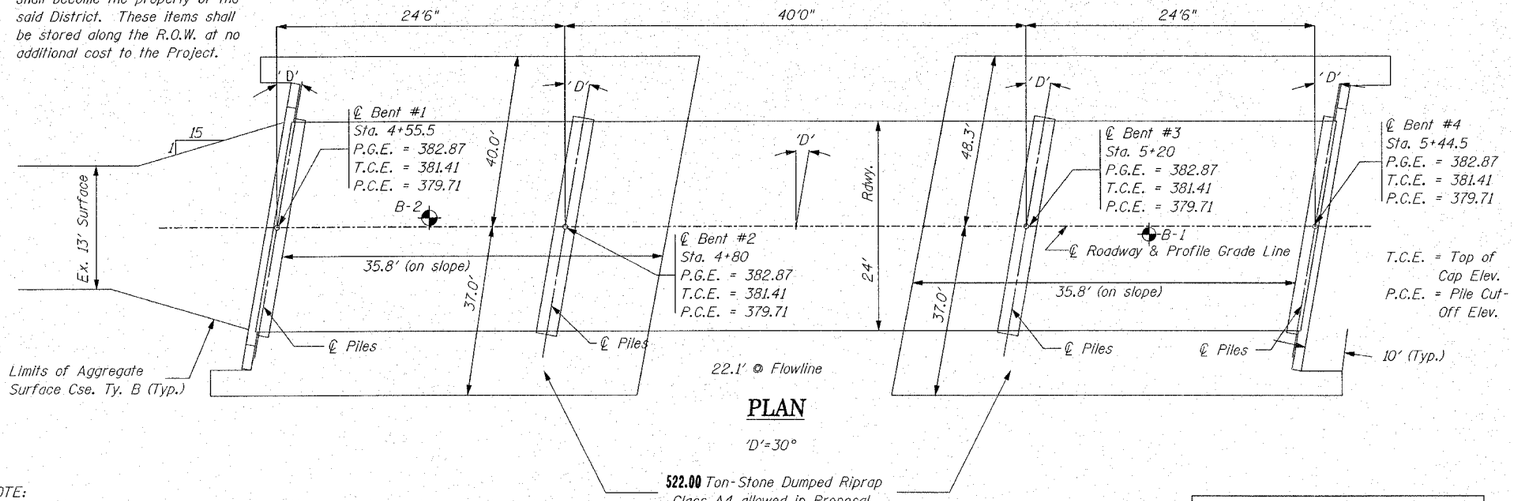
B.M.– *I.P. ±10+02.80, 10.16' RT = 377.56*



ELEVATION

One (1) Each Removal of Existing Structures allowed in Proposal

NOTE: All items deemed fit for use on other Road District projects shall become the property of the said District. These items shall be stored along the R.O.W. at no additional cost to the Project.



PLAN

'D'=30°

NOTE:
The Article or Section Numbers Referencing the Standard Specifications for Road and Bridge Construction as shown on the Standard Bridge Plan Sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specification (Adopted January 1, 2007) as shown in the "Article/Section No. Reference Table."

ARTICLE/SECTION NO. REFERENCE TABLE

Previous No.	Current No.
504.06	504.06
505.04	505.04
1006.05	1006.05
1006.32	1006.32
1060.07	1060.07
STD 631026	STD 631026

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 2.0

STEVEN W. MEGGINSON 6064 LICENSED STRUCTURAL ENGINEER OF SPRINGFIELD ILLINOIS

10/20/06
ILLINOIS STRUCTURAL NO. 6064 — Expires 11-30-08

Complies with 2002 AASHTO Specifications for Seismic Design of Bridges.

PILE DATA (2-PIERS)

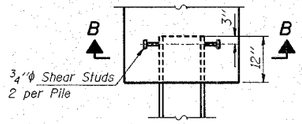
Type:	Steel Piles HP10X42
Nominal Required Bearing:	334.8 kips
Allowable Resistance Available:	Drive to Refusal
Estimated Length:	76 Feet/Pile
Number Required:	8

PILE DATA (2-ABUTS)

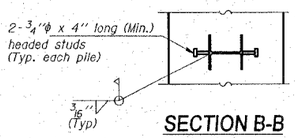
Type:	Steel Piles HP10X42
Nominal Required Bearing:	152 kips
Allowable Resistance Available:	76 kips
Estimated Length:	58 Feet/Pile
Number Required:	8

DESIGN SPECIFICATIONS

2002 AASHTO
HS 20-44 Loading. Load Factor Design.



PILE DETAIL
Typ. Each Pile

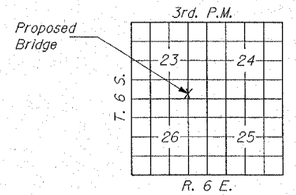


SECTION B-B

STATION 5+00
CONTRARY CREEK
SEC. 97-12113-02-BR BUILT 20
PROJECT BROS-065(036)
HAMILTON COUNTY
LOADING HS 20-44
STR. NO. 033-3301

LETTERING FOR NAME PLATE

Locate Name Plate at the Southwest corner of the Bridge (See Std. CN)



LOCATION SKETCH

GENERAL NOTES

1. The Contractor shall drive 2 test piles, as specified, in permanent locations as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck Beams.
4. The Bit. Conc. Surf. Cse., Superpave and the waterproofing membrane system shown in these plans shall not be provided.
5. The Steel H-piles shall be according to AASHTO M270 Grade 50
6. 2-3/4"ϕ shear studs will be required per pile which will be encased within the concrete cap.
7. All HP piles shall be oriented with the strong axis along the centerline of the abutment or pier.

Item		Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Bit. Conc. Surf. Cse. Superpave	Ton				
Waterproofing Membrane System	Cu.Yd.				
Concrete Structures	Cu.Yd.		17.4	19.4	36.8
P.P. Conc. Dk. Bm. 17" Dp.	Sq.Ft.	2160			2160
Steel Railing, Type S1	Foot	180			180
Reinforcement Bars	Pound		2140	2540	4680
Furnishing Steel Piles HP10X42	Foot		608	464	1072
DRIVING PILES	Foot		608	464	1072
Test Pile Steel HP12X53	Each		1	1	2
Name Plates	Each			1	1
Concrete Encasement	Cu.Yd.		11.3	2.1	13.4
Stud Shear Connectors	Each		16	16	32

NOTE: Four (4) Each Curled End Sections required. Item to be incidental to the Steel Railing.

INDEX OF SHEETS

WATERWAY INFORMATION

Drainage Area = 21.3 sq.mi. Low Grade Elev. = 377.2 at Sta. 0+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq Ft Exist.	Opening Sq Ft Prop.	Natural H.W.E.	Head-Ft Exist.	Head-Ft Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	2720	362	631	379.7	0.09	0.09	379.79	379.79
Base	100	4106	362	733	381.1	0.87	0.35	381.97	381.45
Overtopping									
Max. Calc.	500	5186							

GENERAL PLAN AND ELEVATION

TOWNSHIP ROUTE 318
OVER CONTRARY CREEK
SECTION 97-12113-02-BR
HAMILTON COUNTY
STATION 5+00

TWIGG TOWNSHIP
OVER CONTRARY CREEK
HAMILTON COUNTY, ILLINOIS

AARON M. MEFFORD
5G284 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

AARON M. MEFFORD
NAME
SIGNATURE
12-15-06
DATE
11-30-07
EXPIRES

SHEET TITLE:
GENERAL PLAN AND ELEVATION

SCALE:	NONE
BY:	AMM
DATE:	09/29/06
REV:	

5 OF 15 SHEETS

SHEET NO. 5