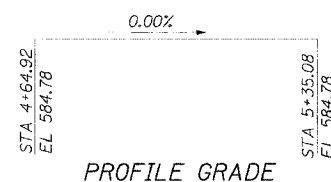


BM #1556-3: YELLOW SPIKE NAIL IN POWER POLE,
EAST SIDE OF FARMER ROAD,
100 (+/-) FEET SOUTH OF BRIDGE.
EL 579.87

BM #1556-4: YELLOW SPIKE NAIL IN POWER POLE,
EAST SIDE OF FARMER ROAD,
500 FEET (+/-) NORTH OF BRIDGE.
FL 605.47

Existing Structure No. 069-3127
Three span bridge with 8" concrete deck with steel guardrail
on four steel beams 16" deep. Abutments and piers consists
of five 12" diameter timber piles with a 2.5'x2.5'
concrete cap and wingwalls.
Structure Length = 64.6 Ft.
Structure Width = 21.2 Ft. Out to Out
Structure and appurtenances shall be removed.
No Salvage



AASHTO 2002

Future Wearing Surface = 50 p.s.f.
25 p.s.f. Wearing Surface
Seismic Performance Category = A

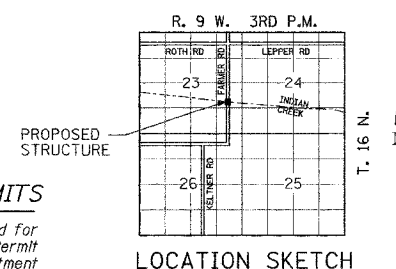
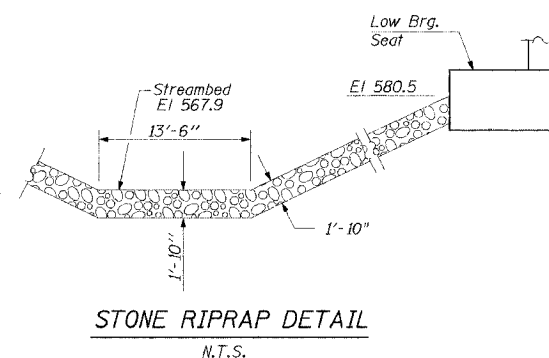
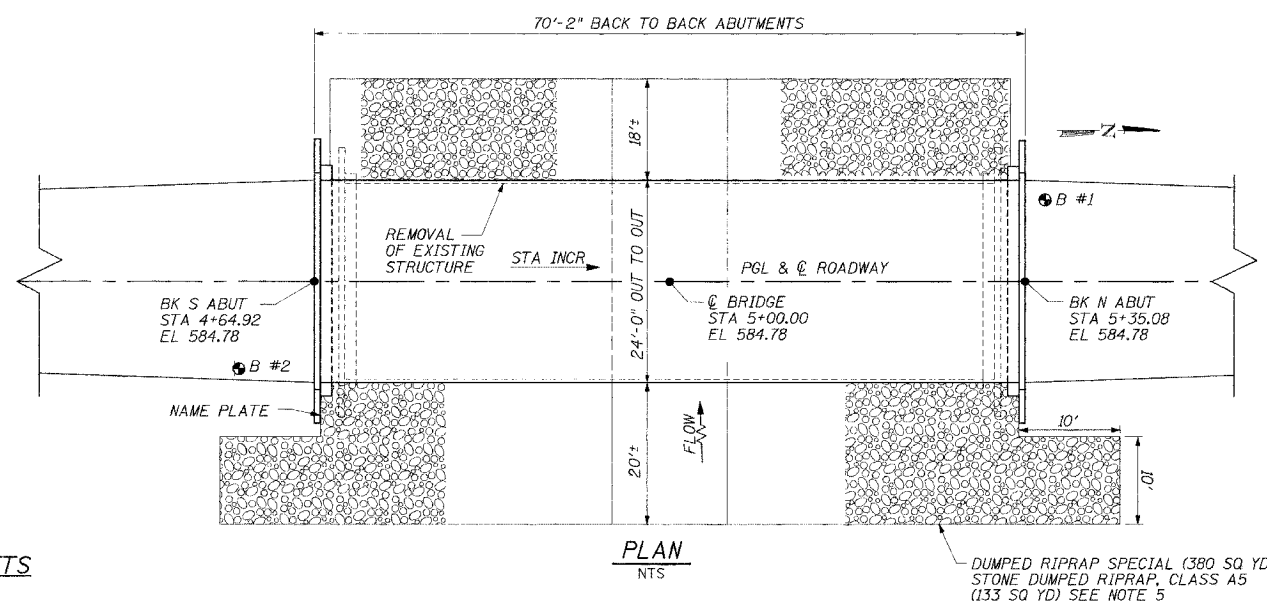
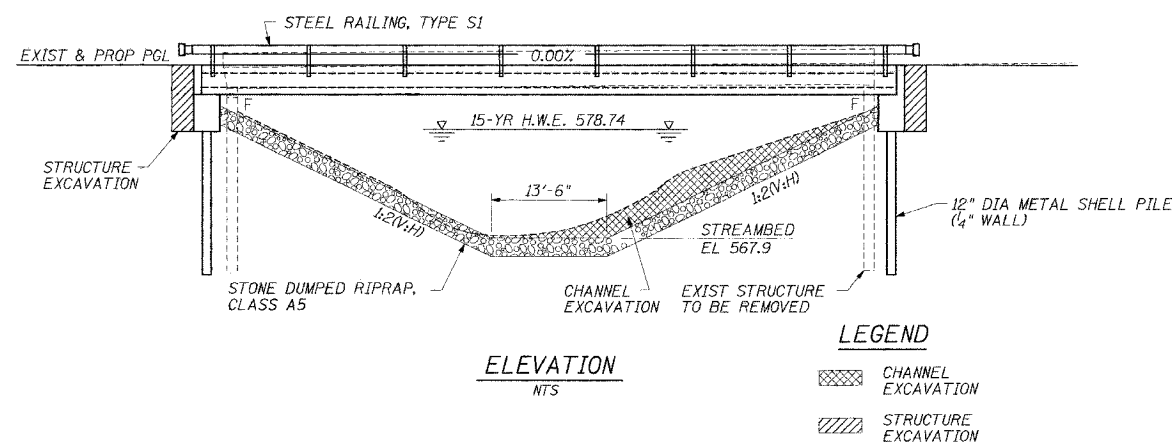
FIELD UNITS

$f'_c = 5,000 \text{ psi}$
 $f'_{ci} = 4,000 \text{ psi}$
 $f'_s = 270,000 \text{ psi } (1/2'' \phi \text{ strands})$
 $f'_{si} = 201,960 \text{ psi}$

INDIAN CREEK
BUILT 20__ BY
MORGAN COUNTY/ROAD DISTRICT #1
SECTION 05-01117-00-BR
F.A. PROJ. BROS-137 (25)
STA 5+00
STR. NO. 069-3259 LOADING HS20

See Std. 515001
(Locate at S.E. Wing)

DRAINAGE AREA = 15.20 SQ MI				PROPOSED LOW GRADE ELEVATION = 584.78					
EXISTING LOW STEEL ELEVATION = 582.40				PROPOSED LOW BEAM ELEVATION = 581.78					
FLOOD DESIGN	FREQ. YR	Q C.F.S.	OPENING SQ FT		NATURAL H.W.E.	HEAD - FT		HEADWATER EL	
			EXIST	PROP	EXIST	PROP	EXIST	PROP	
15	2672	361.0	381.4	578.65	0.73	0.09	579.39	578.74	
BASE	100	4292	462.3	484.4	579.50	1.59	0.95	581.10	580.45



This project has been approved for construction under Statewide Permit No. 12 as issued by the Department of Natural Resources' / Office of Water Resources.

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

1. *The Contractor shall drive a test pile as specified in a permanent location in the North abutment as directed by the Engineer prior to ordering the remainder of the piles.*
2. *See Special Provisions for Boring Logs.*
3. *Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.*
4. *A Corrosion Inhibitor, as covered in the Special Provisions shall be used in the concrete for Precast Prestressed Concrete Deck Beams.*
5. *No bedding material and no filter fabric material are required under the Stone Dumped Riprap.*
6. *Road shall be closed to traffic at all times during construction.*

	ITEM	UNIT	SUPER	SUB	TOTAL
*	Stone Dumped Riprap, Class A5	Ton		194	194
*	Dumped Riprap, Special	Sq Yd		380	380
	Removal of Existing Structures	Each			1
	Channel Excavation	Cu Yd		100	100
	Structure Excavation	Cu Yd		100	100
	Concrete Structures	Cu Yd		20.6	20.6
	Precast Prestressed Concrete Deck Beams (33" Depth)	Sq Ft	1,646.0		1,646.0
	Reinforcement Bars	Pound		2,760	2,760
	Steel Railing, Type S1	Foot	140.0		140.0
	Furnishing Metal Pile Shells 12"	Foot		430	430
	Driving and Filling Shells	Foot		430	430
	Test Pile Metal Shells	Each		1	1
	Name Plates	Each		1	1
	Bituminous Concrete Surface Course, Superpave, Mix "C", N50	Ton	28		28

* See Special Provisions

DRAWN BY LEL
CHECKED BY LEL
APPROVED BY REG
DATE FEBRUARY, 2006

GENERAL PLAN AND ELEVATION
S.N. 069-3259
FARMER ROAD (TR-324)
OVER INDIAN CREEK
MORGAN COUNTY, ILLINOIS

BA
BENTON & ASSOCIATES, INC.
BENTON & ASSOCIATES, INC.

BENTON & ASSOCIATES, INC.
Consulting Engineers / Land Surveyors
1970 West Lafayette Ave. Jacksonville, IL 62650
Phone: 217-245-4146 Fax: 217-245-4149
IL Design Firm Registration No. 184-000852

FIELD BOOK:	SCALE:	JOB NO. 05E556	SHEET 4 OF
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