

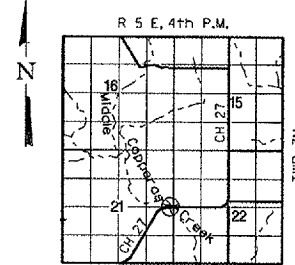
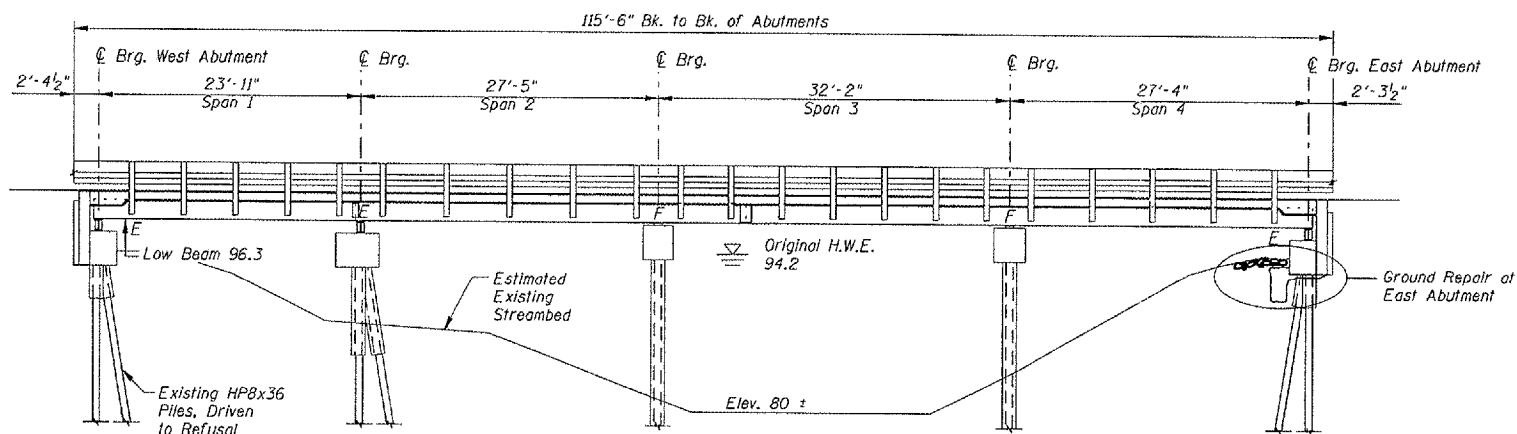
Existing Structure: Concrete decking supported on 5 steel beams resting on pile supported concrete abutments and bents. Four total spans of steel girders. 115'-6" Long and 30'-6" Wide O-O of deck.

BM #1 - X on Northeast wingwall near STA 10+67.25, 31' left, Elev. 100.00

CONTRACT 89466

ROUTE NO.	SECTION	COUNTY	SHEET NO.
FAS 1384	1	Fulton	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. ROAD PROJECT	

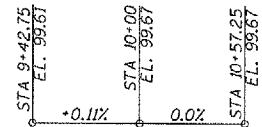
*07-00117-03-BR



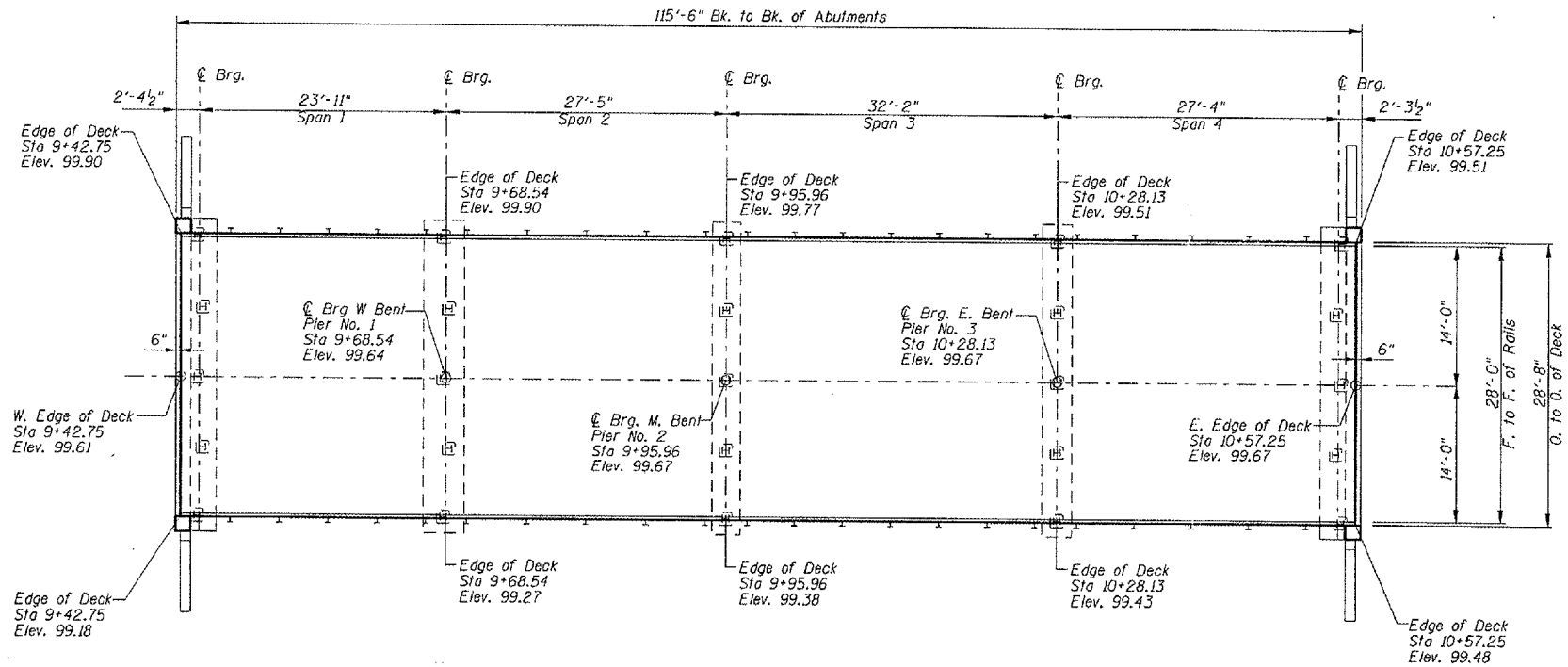
LOCATION SKETCH

STRUCTURE NO. 029-3001
SEC. 07-00117-03-BR BUILT 200
ORION ROAD DISTRICT
FULTON COUNTY
LOADING HS-25-44

NAME PLATE
See Standard 515001



PROFILE GRADE



GENERAL NOTES

- Structural steel shall be M270, Grade 50.
- Welds shall use an E70XX electrode.
- Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimension and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.



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 structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges."

JOHN A. FRAUENHOFFER
Illinois Licensed Structural Engineer Number 4192
License Expires 11/30/08

DESIGN SPECIFICATIONS
AASHTO 2002 and all applicable Interims

DESIGN LOADING
HS 25-44
25 P.S.F Future Wearing Surface

DESIGN STRESSES
 $f'_c = 3,500$ psi (Cast in Place Concrete)
 $f_y = 60,000$ psi (Reinforcing Steel)
 $f_y = 50,000$ psi (New Structural Steel)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	L. Sum	1		1
Concrete Removal	Cu. Yd.	4		4
Bridge Rail Removal	Foot	229		229
Structure Excavation	Cu. Yd.	12		12
Concrete Structures	Cu. Yd.	2.7		2.7
Concrete Superstructures	Cu. Yd.	83.4		83.4
Bridge Deck Grooving	Sq. Yd.	525		525
Protective Coat	Sq. Yd.	525		525
Furnishing & Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	26710	380	27090
Bar Splicers	Each	56		56
Steel Railing, Type SM	Foot	229		229
Name Plates	Each		1	1
Controlled Low-Strength Material, Mix 2	Cu. Yd.		12	12

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J. Wolf				
APVD	J.A. Fraenhoffer				
NO.	DATE	REVISION	BY	APVD	

FRAUENHOFFER

Fraenhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court Champaign, IL 61822 217-351-6268

GENERAL PLAN AND ELEVATION
FAS 1384 (COUNTY HIGHWAY 27)
SECTION 07-00117-03-BR
FULTON COUNTY

SHEET 7
DWG NO. 7022gpe.dgn
DATE OCT 2007
PROJ NO. 7022