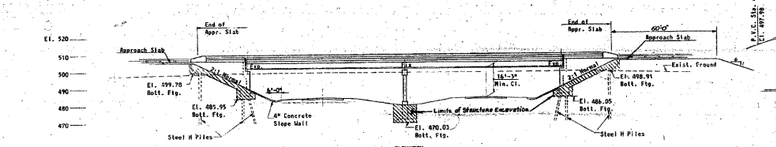
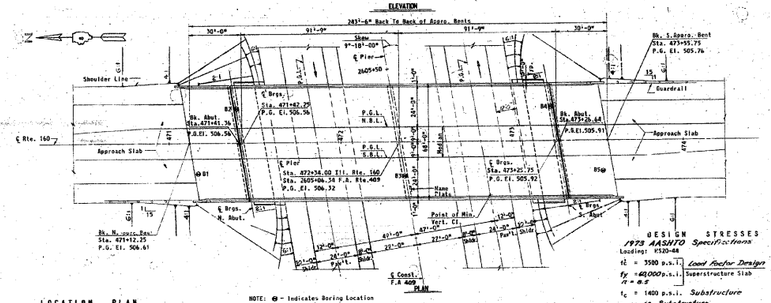
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FA 409	14-12HB	CLINTON	56	16
KILLBUCK	RAILWAY	FLEVATION	PROJECT	

Bench Mark 492A - Cut + on south top bolt of hydrant in north east corner Madison Street and Third Street.
(53 ft. east Sta. 490+03) Elev. 492.24

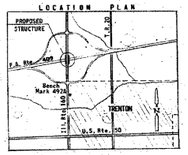
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





NOTE: ⊕ - Indicates Boring Location

LOCATION PLAN



DESIGNED P.L.C.
DRAWN A.G.S.
TRACED A.G.S.
CHECKED Y.K.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER STRUCTURE	SUB STRUCTURE	TOTAL
STRUCTURE EXCAVATION	Cu. Yd.	---	600	600
Class "B" Concrete	Cu. Yd.	234.3	431.8	Prel./
Protective Coat	Sq. Yd.	681	---	681
* Furnish & Erecting Structural Steel	Lump Sum	---	---	---
Reinforcement Bars	Lbs.	106,940	51,260	158,100
Slope Wall 4"	Sq. Yd.	---	415	415
Furnishing Steel Piles - HP 12x36	Lin. Ft.	---	1092	1092
Test Piles - HP 12x36	Each	---	1	1
Name Plates	Each	---	1	1
Preformed Joint Sealer 8"x1/2"	Lin. Ft.	180	---	180
Furnish & Erecting Precast Prestressed Conc. I-Beam 36"	Lin. Ft.	503	---	503
Stud Shear Connectors	Each	9,158	---	9,158
Waterproofing - Membrane System	Sq. Yd.	1,893		1,893
Bituminous Concrete Surface Course, Class I	Tons	109		109

* Note: Calculated plan weight of Structural Steel = 371,430 Lbs.

DESIGN STRESSES
1978 AASHTO Specifications
Loading: H320-44

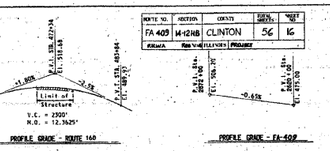
f_c	= 3500 p.s.i.	Load Factor Design
f_y	= 40,000 p.s.i.	Superstructure Slab
n	= 8.5	
f_c	= 1400 p.s.i.	Substructure
n	= 10	Substructure
V_c	= 75 p.s.i.	Footings
f_s	= 20,000 p.s.i.	Reinforcement (Substructure)
f_s	= 20,000 p.s.i.	Structural (ASTM A-36 steel)

See Sheet No. 8 for the General Notes and Design Stress of Precast Prestressed Concrete.

Allowable $\frac{L}{1000}$ Non-Composite

$\frac{L}{1,200}$ Composite

Note: See Sheet 12 for section thru slopewall.



PROFILE GRADE - ROUTE 160

PROFILE GRADE - FA-409

GENERAL NOTES

1. All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
2. The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
3. All structural steel shall conform with A.A.S.H.T.O. designation M-183.
4. Fasteners shall be high strength bolts; Bolts 7/8" ⌀, open holes 15/16" ⌀, unless otherwise noted.
5. Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
6. Anchor bolts shall be set before bolting diaphragms over supports.
7. Two Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
8. The Contractor shall drive one steel test pile in a permanent location at South Abutment as directed by the Engineer before ordering the remainder of the piles.
9. Steel H Piles (HP12X36) shall be driven to refusal.
10. Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System ... is applied.
11. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
12. All deck reinforcement bars shall conform to AASHTO M-31 Grade 60 or M-53 Grade 60.
13. The main load carrying member components subject to tensile stress shall conform to the Supplement of Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders.

STATION 2605+06.34 BUILT-REL. OF STATE OF ILLINOIS F.A. RT. 409 SEC. 14-12HB LOADING H320 STR. NO. ---- ---- FA PROJ. EBF-409-1(14)

NAME PLATE
(Structure Number to be Supplied by District)

GENERAL PLAN
ILL. ROUTE 160 OVER FA 409

SECTION 14-12HB STATION 2605+06.34
PROJECT EBF-409-1(14)
CLINTON COUNTY

FILE NAME = c:\pw_work\pwidot\manntm\dms52472\pln120207b.dgn	USER NAME = manntm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
LOCATION 1

SCALE: NO SCALE | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	14-12BR-1	CLINTON	72	62A
		CONTRACT NO. 76B27		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		