

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

FASTENERS SHALL BE HIGH STRENGTH BOLTS, BOLTS 7/8" Ø, OPEN HOLS 1 1/16" Ø, UNLESS OTHERWISE NOTED.

CALCULATED HEIGHT OF STRUCTURAL STEEL = 19.22' 10.50"
11.85' 3.91"
FIELD PAINTING OF STRUCTURAL STEEL.

THE BASIC LEAD SELLING CHARGES PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WEARINGS 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-TWO (1/2) THE SPAN LENGTHS FROM THE PILE SUPPORTS.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, REINFORCING BAR PER 100 SQ. FT.

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN A REPRESENTATIVE LOCATION AT EACH ABUTMENT AND PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

CONCRETE PILES AT ABUTMENTS SHALL BE DRIVEN BY HOLES PRECURRED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 513.09(C) OF THE STANDARD SPECIFICATIONS.

THE CONCRETE WALL SECTION ABOVE THE EMBANKMENT CONSTRUCTION JOINT AT THE ABUTMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF EMERALD CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

BEARING SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF ± 1/8" HIGH. ADJUSTMENT SHALL BE MADE EITHER BY GRADING THE SURFACE OR BY SHIMMING THE BEARING. THE 1/2" PROTECTIVE SHIMS OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

THE EMBANKMENT CONSTRUCTION JOINT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EMBANKMENT.

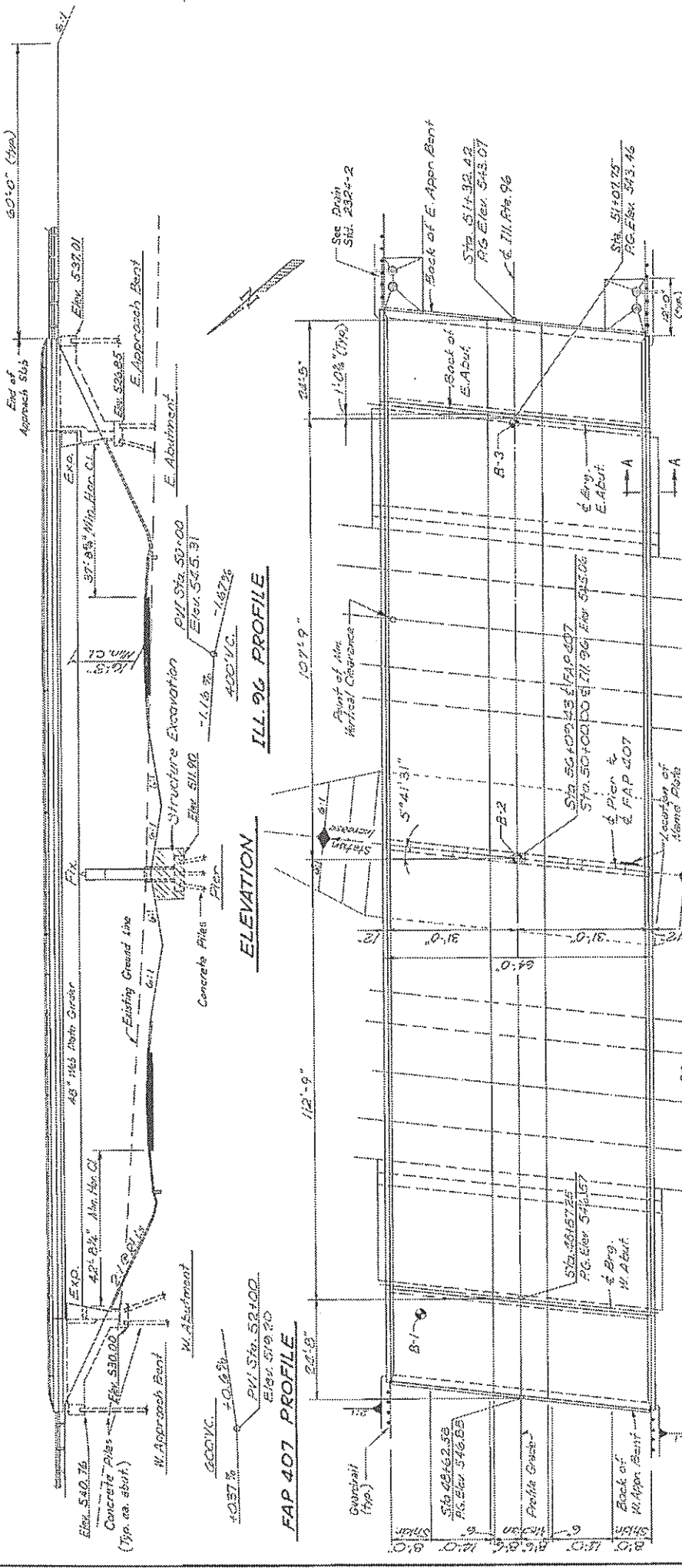
TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub	Total
Structure Excavation	Cu Yds.	370	370	370
Class X Concrete	Cu Yds.	615.2	484.2	1099.4
Structural Steel	Lump Sum	1	1	1
Reinforcement Bars	Lbs.	137,911	50,894	188,805
Concrete Piles	Lin. Ft.	2940	2940	2940
Test Piles, Concrete	Lin. Ft.	4	4	8
Slope Wall, 4' High	Sq. Yds.	520	520	520
Bit Conc. Surf. Course	Tons	85	85	85
Waterproofing Membrane System	Sq. Yds.	1315	1315	1315
Aluminum Roofing	Lin. Ft.	533.6	533.6	533.6
Preformed Joint Sealer	Lin. Ft.	129	129	129
Steel Sinker Connectors, 3/4"	Lbs.	3,834	3,834	3,834
Protective Coat	Sq. Yds.	730	730	730
Sand Backfill	Cu Yds.	435	435	435
Name Plate	Ea.	1	1	1

GENERAL PLAN & ELEVATION
ILL. RTE. 96 OVER F.A.P. RTE. 407
F.A.P. RTE. 407 - SEC. 1-5 HB
ADAMS COUNTY
STATION 56+00.43
PROJ. EBRF-407-1(5)

PLANS PREPARED BY AMERICAN ENGINEERS CO.

DEPARTMENT OF TRANSPORTATION



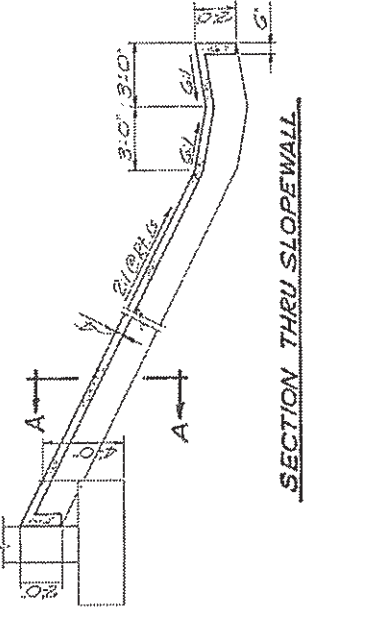
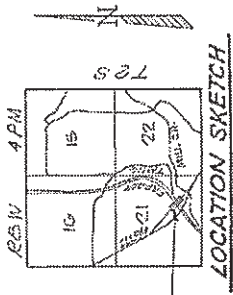
STATION 56+00.43
BUILT 197 BY
STATE OF ILLINOIS
F.A.P. RTE. 407 SEC. 1-5HB
F.A. PROJ. EBRF-407-1(5)
LOADING HS20

NAME PLATE
See Std. 2113

DESIGN STRESSES

$f_c = 1200$ psi Deck Slab (Main Spans)
 $f_c = 1400$ psi Curb, Parapet, Deck Slab (Approach Spans) & Substructure
 $f_s = 75$ psi (Figs.)
 $f_s = 10$
 $f_s = 20,000$ psi Reinf.
 $f_s = 20,000$ psi Street (M122); 27,000 psi (M222) Street
Allowable & Deflection = 1/440
Design Specifications 1973 ASHRAE (as applicable)
Add 25% per sq. ft. for future wearing surface.

LOADING-HS20-44



DESIGNED	CDC
CHECKED	HMH
DRAWN	CDC
CHECKED	HMH