

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 408	1-3 HB	ADAMS	59	59
FED. ROAD DIST. NO. 1172				

GENERAL NOTES

THE CONTRACTOR SHALL DRIVE THREE (3) CONCRETE TEST PILES IN PROMINENT LOCATIONS. ONE EACH AT APPROX. BENT # 3, APPROX. # 1 AND APPROX. # 4 AS DIRECTED BY THE ENGINEER BEFORE UNDERMINING THE REMAINDER OF THE PILE.

THE IRON LEAD ANCHORS BETWEEN COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR BOLT TIGHTNESS ZONE 2. THESE COMPONENTS ARE THE TENSION PLATES, KEYS AND ALL NEW AND TENSION FLANGE PLATE INTERVALS OF THE STEEL GIRDERS.

THE EMBANKMENT CONSTRUCTION SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PER TO THE CONSTRUCTION OF THE STRUCTURE.

THE BASIC LEAD STEEL CHROME PAINS SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD JOINTS OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF THE STEEL GIRDERS. FIELD JOINTS IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BUILDING CROSS FRAMES OVER SUPPORTS.

FACTORS SHALL BE USED TO DETERMINE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PER TO THE CONSTRUCTION OF THE STRUCTURE.

SEE PROPOSAL FOR BORING DATA.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-618 OR A-615 GRADE 60.

THE SLOPE SHALL BE REINFORCED WITH WELDED WIRE FABRIC, "F" OR "M" - 18" x 18" x 14" D. NEIGHBORING 58 LBS. PER 100 SQ. FT.

CONCRETE PILES AT ABUTMENTS AND APPROXIMATE SHALL BE DRIVEN IN LINES PRECISED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 518.04 (C) OF THE STANDARD SPECIFICATIONS.

DESIGN LOADING HS20-44

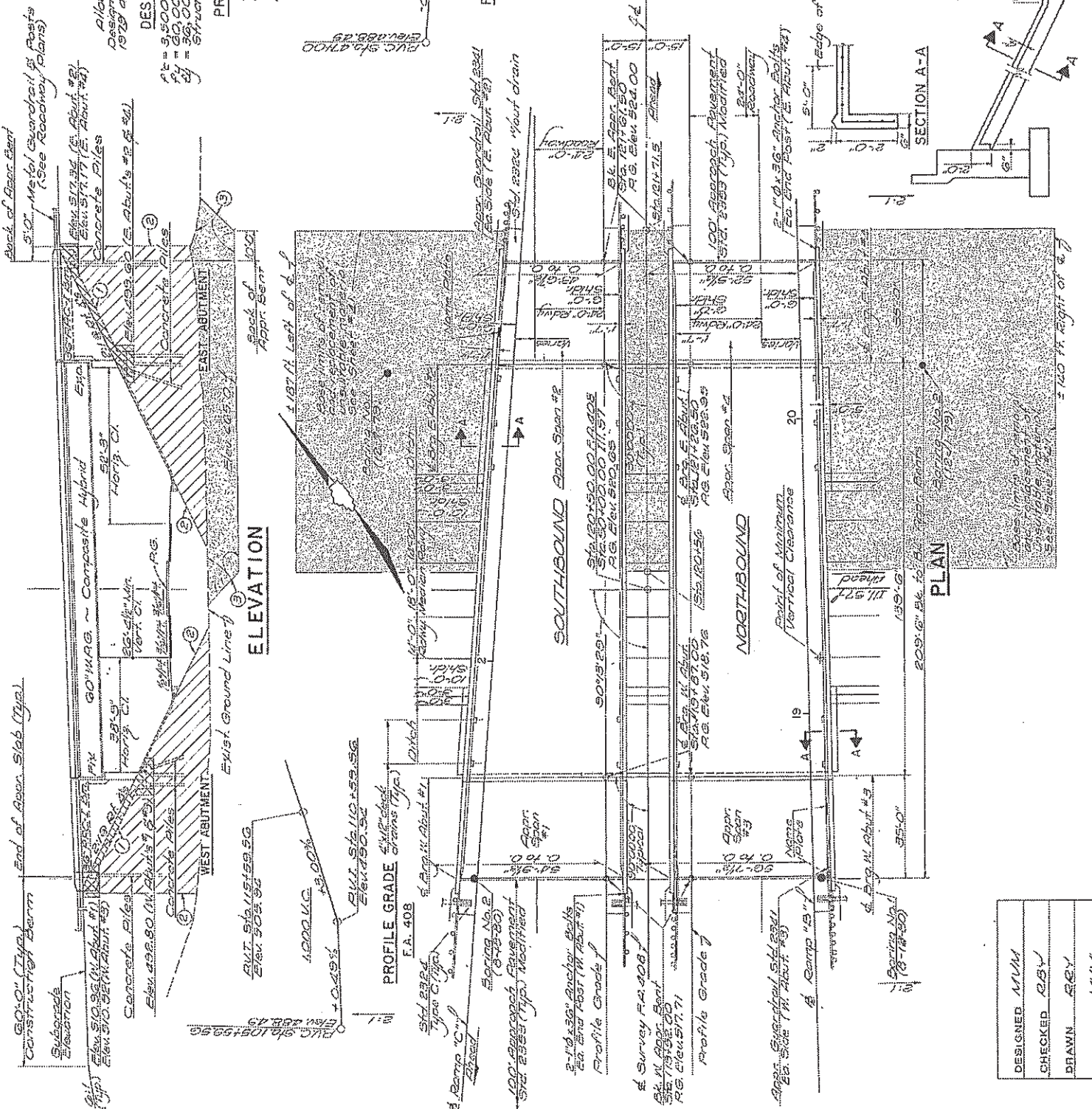
Allow 50% P.S. for Future Hoopings Surface
Design Specifications 1977, AASHTO, 1978,
1979 and 1980 Interim Specifications.

DESIGN STRESSES - LOAD FACTOR DESIGN

$f_t = 5,500$ p.s.i. Concrete
 $f_y = 50,000$ p.s.i. Steel
 $f_c = 3,000$ p.s.i. Structural Steel (Hybrid Girder Design)

PRECAST PRESTRESSED STRESSES

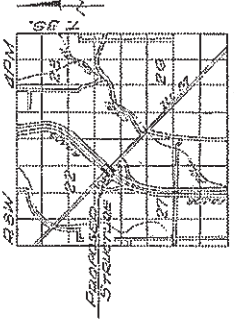
$f_t = 5,000$ p.s.i.
 $f_y = 50,000$ p.s.i.
 $f_c = 3,000$ p.s.i. (Hybrid Strands)



ITEM	UNIT	SUPER	SUBSTR.	TOTAL
CLASS "X" CONCRETE	CU. YD.	620.0	561.0	1181.0
REINFORCEMENT BARS	LBS.	26,430	55,200	81,630
REINFORCEMENT BARS (EPOXY-COATED)	LBS.	94,730	---	94,730
STRUCTURAL STEEL	LUMP SUM	---	---	---
STRUCTURE EXCAVATION	CU. YD.	---	100.2	100.2
CONCRETE PILES	LIN. FT.	---	730.8	730.8
TEST PILES, CONCRETE	EACH	---	3	3
P.P.C. - 1 BEAMS, 36"	LIN. FT.	---	624	624
MEMBRANE EXPANSION JOINT, (E)	EACH	---	2	2
NAME PLATES	EACH	---	2	2
SLOPEWALL (4')	SO. YD.	---	1.12	1.12
STUD SHEAR CONNECTORS	EACH	---	3,654	3,654
ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	---	14	14
PROTECTIVE COAT	SO. YD.	---	26.13	26.13
FLOOR DRAINS	EACH	---	20	20
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	---	14,550	14,550
POROUS GRANULAR EMBANKMENT	CU. YD.	---	42,550	42,550

*FOR INFORMATION ONLY. Additional Details of Removal, Replacement and Construction Phasing are shown on Detail Sheet No. 41.

GENERAL PLAN & ELEVATION
F.A. RTE. 408 Over Ill. 57
F.A. RTE. 408 SEC. 1-3HB
ADAMS COUNTY
STA. 120+50.00 F.A. 408



PLANS PREPARED BY AMERICAN ENGINEERING CO.

DESIGNED: MMW
CHECKED: DSV
DRAWN: BSY
CHECKED: MMW

USER NAME: khdvms
FILE NAME: c:\projects\br-dgplans\c6617206 - 1-172 bridge point 2015\plan\hans.dgn
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: Aug-19-2014 08:25:09PM

DESIGNED: MMW
CHECKED: DSV
DRAWN: BSY
CHECKED: MMW

REVISIONS

NO.	DESCRIPTION	DATE
1	DESIGNED	
2	CHECKED	
3	DRAWN	
4	CHECKED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SN: 001-006465
FOR INFORMATION ONLY

SCALE: SHEET 59 TO STA.

ILLINOIS FED. AID PROJECT

TOTAL SHEETS: 30
SHEET NO.: 59

COUNTY: ADAMS

SECTION: D6 BRIDGE PAINTING 2015

CONTRACT NO.: 72H36

ILLINOIS FED. AID PROJECT