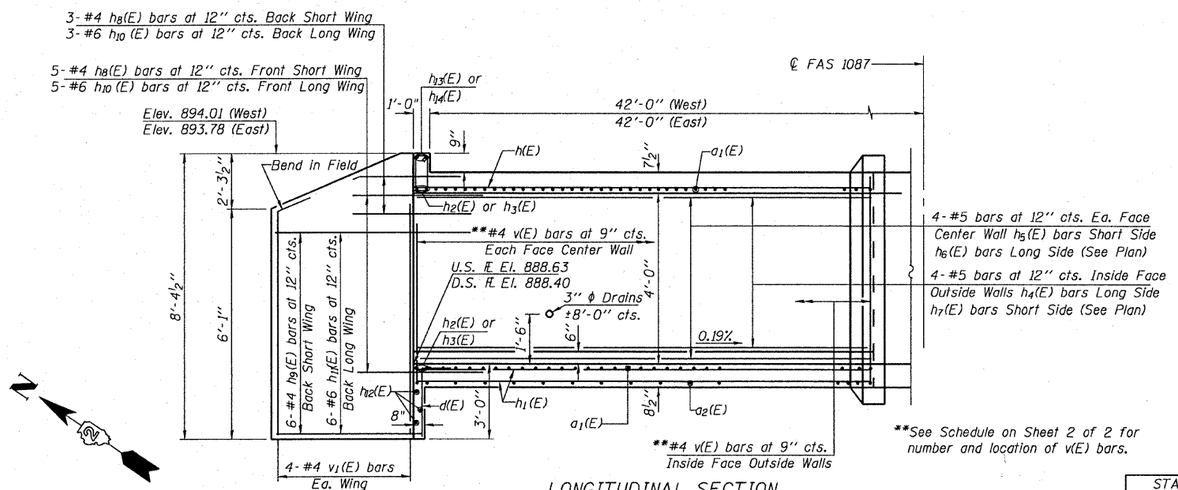
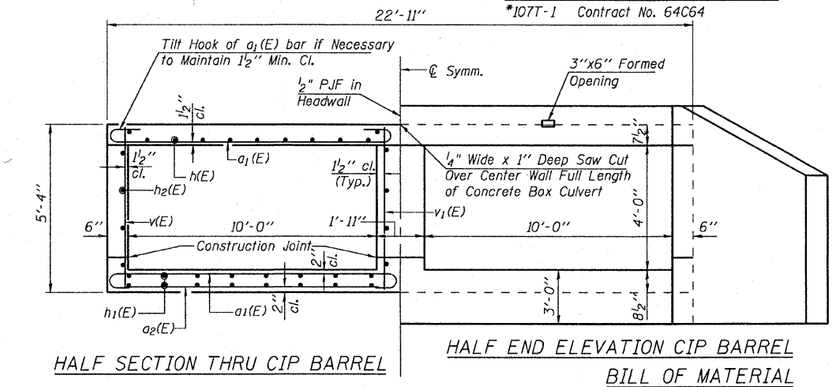
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1087	*	STEPHENSON	47	16
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
2 SHEETS

*107T-1 Contract No. 64C64

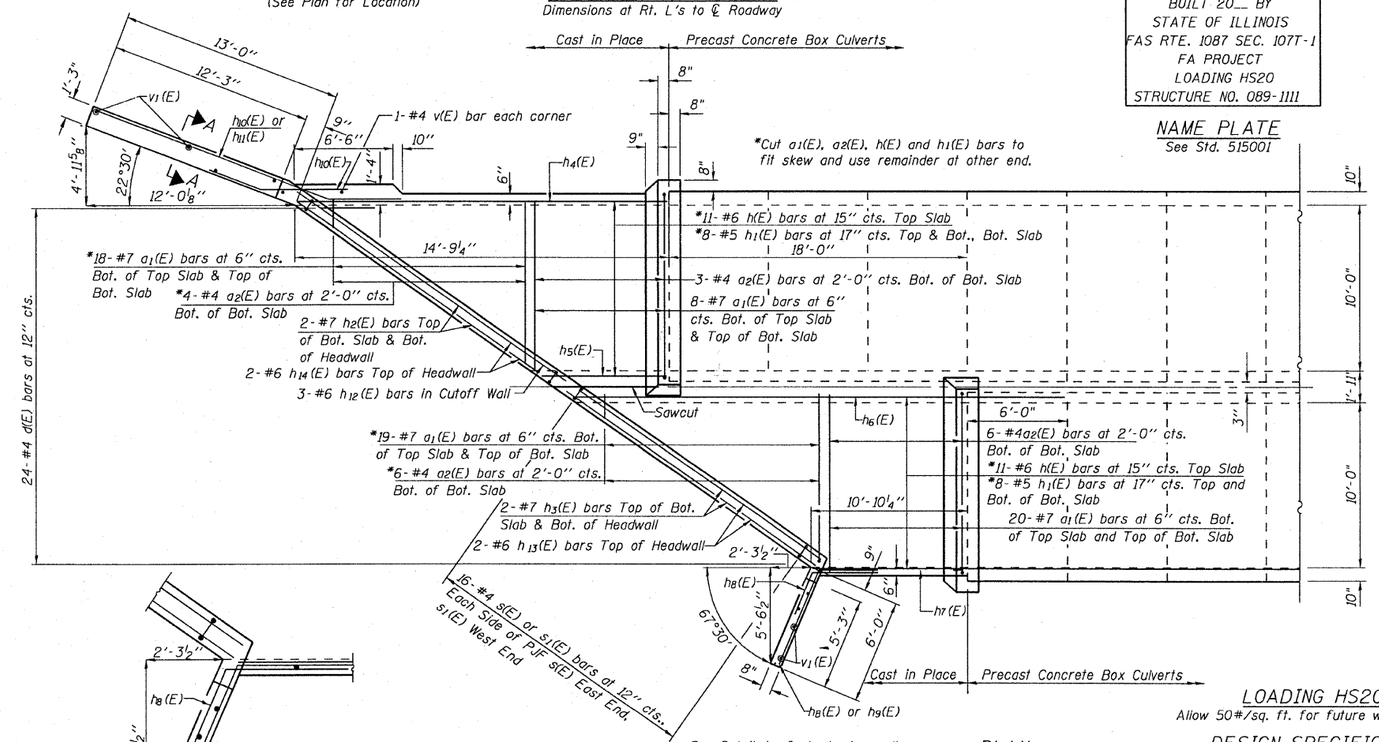


LONGITUDINAL SECTION
Dimensions at Rt. L's to ℄ Roadway

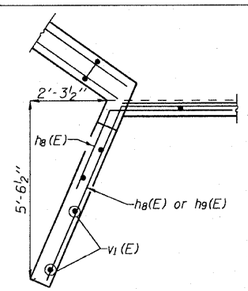


HALF SECTION THRU CIP BARREL

HALF END ELEVATION CIP BARREL



PLAN
West End Treatment Shown
East End Treatment Similar by Rotating 180°



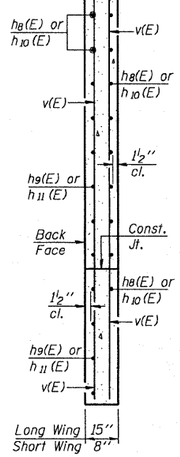
DETAIL A

STATION 609+82.56
BUILT 20__ BY
STATE OF ILLINOIS
FAS RTE. 1087 SEC. 107T-1
FA PROJECT
LOADING HS20
STRUCTURE NO. 089-1111

NAME PLATE
See Std. 515001

NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (II. Modified).
Reinforcement bars designated (E) shall be epoxy coated.
Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 259.



SECTION A-A

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3,500 psi	f'c = 5,000 psi
fy = 60,000 psi (Reinforcement)	fy = 65,000 psi (Welded Wire Fabric)

Work this sheet with sheet 2 of 2.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	186	#7	12'-4"	
a2(E)	28	#4	10'-4"	
d(E)	48	#4	4'-6"	
h(E)	22	#6	24'-9"	
h1(E)	32	#5	24'-9"	
h2(E)	8	#7	16'-4"	
h3(E)	8	#7	15'-10"	
h4(E)	8	#5	14'-6"	
h5(E)	8	#5	3'-11"	
h6(E)	8	#5	20'-6"	
h7(E)	8	#5	10'-2"	
h8(E)	16	#4	8'-0"	
h9(E)	12	#4	8'-11"	
h10(E)	16	#6	8'-0"	
h11(E)	12	#6	18'-0"	
h12(E)	6	#6	32'-0"	
h13(E)	4	#6	14'-8"	
h14(E)	4	#6	16'-4"	
s(E)	32	#4	4'-5"	
s1(E)	32	#4	4'-5"	
v(E)	144	#4	5'-0"	
v1(E)	16	#4	7'-10"	
x(E)	140	#4	5'-2"	
x1(E)	24	#4	16'-3"	
Concrete Box Culverts			Cu. Yd.	66.4
Reinforcement Bars, Epoxy Coated			Pound	10,250
Precast Concrete Box Culverts, 10' x 4'			Foot	192
Name Plates			Each	1
Porous Granular Embankment, Special			Cu. Yd.	64
Rock Exc for Structures			Cu. Yd.	257

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
CULVERT DETAILS

PROJECT
FAS ROUTE 1087 (IL. ROUTE 73)
SECTION 107T-1
STEPHENSON COUNTY
STATION 609+82.56
STRUCTURE NUMBER 089-1111

PROJECT NO. 07075
SCALE
DATE 01/07/08
DRAWN BY TFC
CHECKED BY BD/KPS/MCB
DRAWING NO. 1 OF 2 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

PLOT DATE = 01/23/2008
FILE NAME = d:\dgn\culvert-fas1305\culvi.dgn
PLOT SCALE = 82.8235 '=' / IN.
USER NAME = CTC