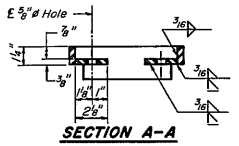
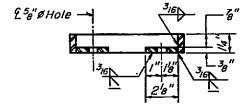
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	114B-1	CASS	42	22
STA.		TO STA.		

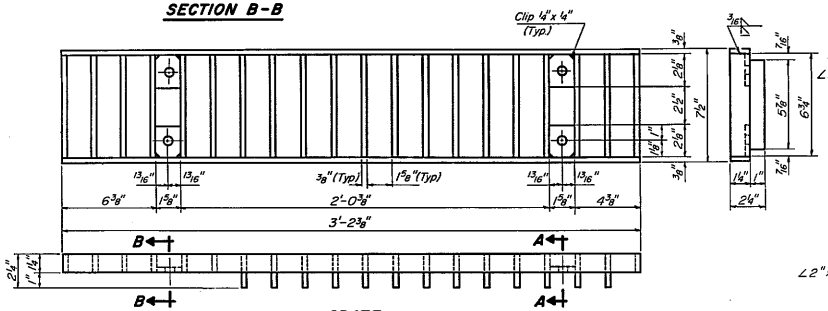
SHEET NO. 10
22 SHEETS



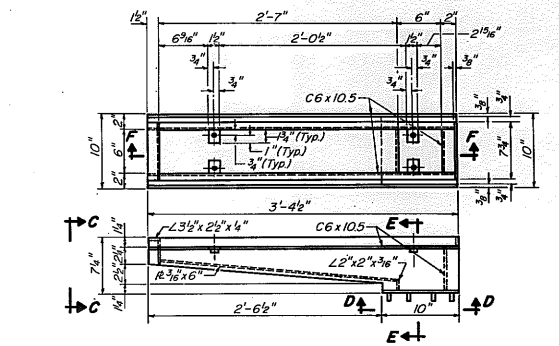
SECTION A-A



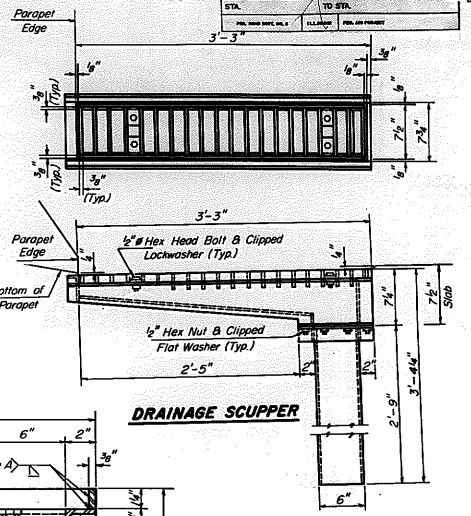
SECTION B-B



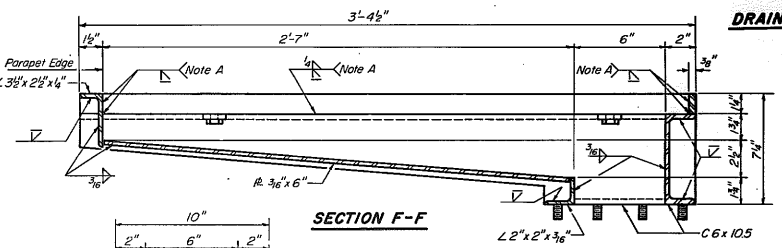
GRATE



FRAME

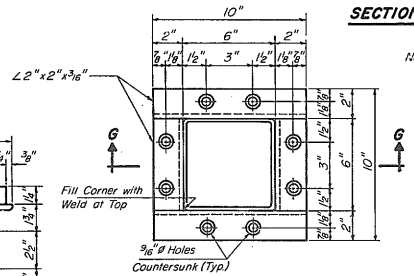


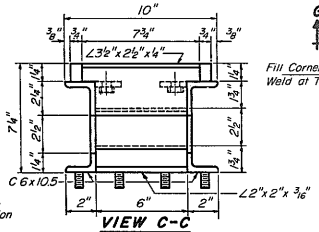
DRAINAGE SCUPPER



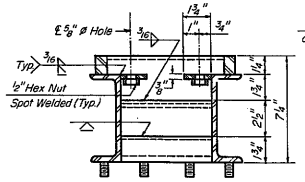
SECTION F-F

Note A: Surface of welds shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.

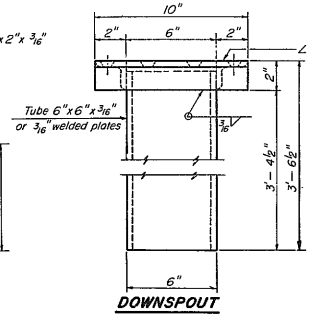




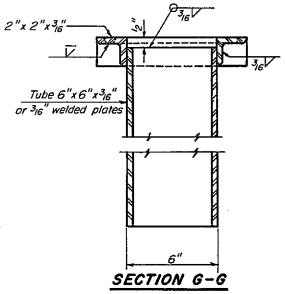
VIEW C-C



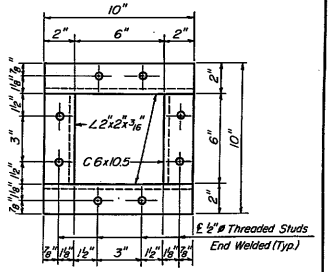
SECTION E-E



DOWNSPOUT



SECTION G-G



VIEW D-D

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper	Each	4

Notes:

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B, or A-501 Structural Steel Tubing.

All other shapes, plates and bars shall conform to the requirements of A.A.S.H.T.O.: M 183.

Bolts, studs, washers and nuts shall conform to the requirements of A.S.T.M.: A-307.

The Grate, Frame, and Downspout shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O.: M-111 & A.S.T.M.: A-385.

All bolts, washers and nuts shall be galvanized in accordance with A.A.S.H.T.O.: M 232.

Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".

DESIGNED	Mary H. Hayden
CHECKED	L.E. Ozyurt
P.E.	
DRAWN	R. Pringle
CHECKED	M.H.B.

DS-3 12-1-83 (W.T. to inside of exterior stringer flange shall not be > 3'-11")

STEEL DRAINAGE SCUPPER
(Sheet 1 of 2)

F.A.P. ROUTE 10 SECTION 114B-1
STA. 353+67.00
CASS COUNTY
STRUCTURE NO. 009-0012

811 WEST CAPITOL
SPRINGFIELD, ILLINOIS 62704
(217) 528-2666
Ozyurt Engineers, Inc.
CONSULTING ENGINEERS

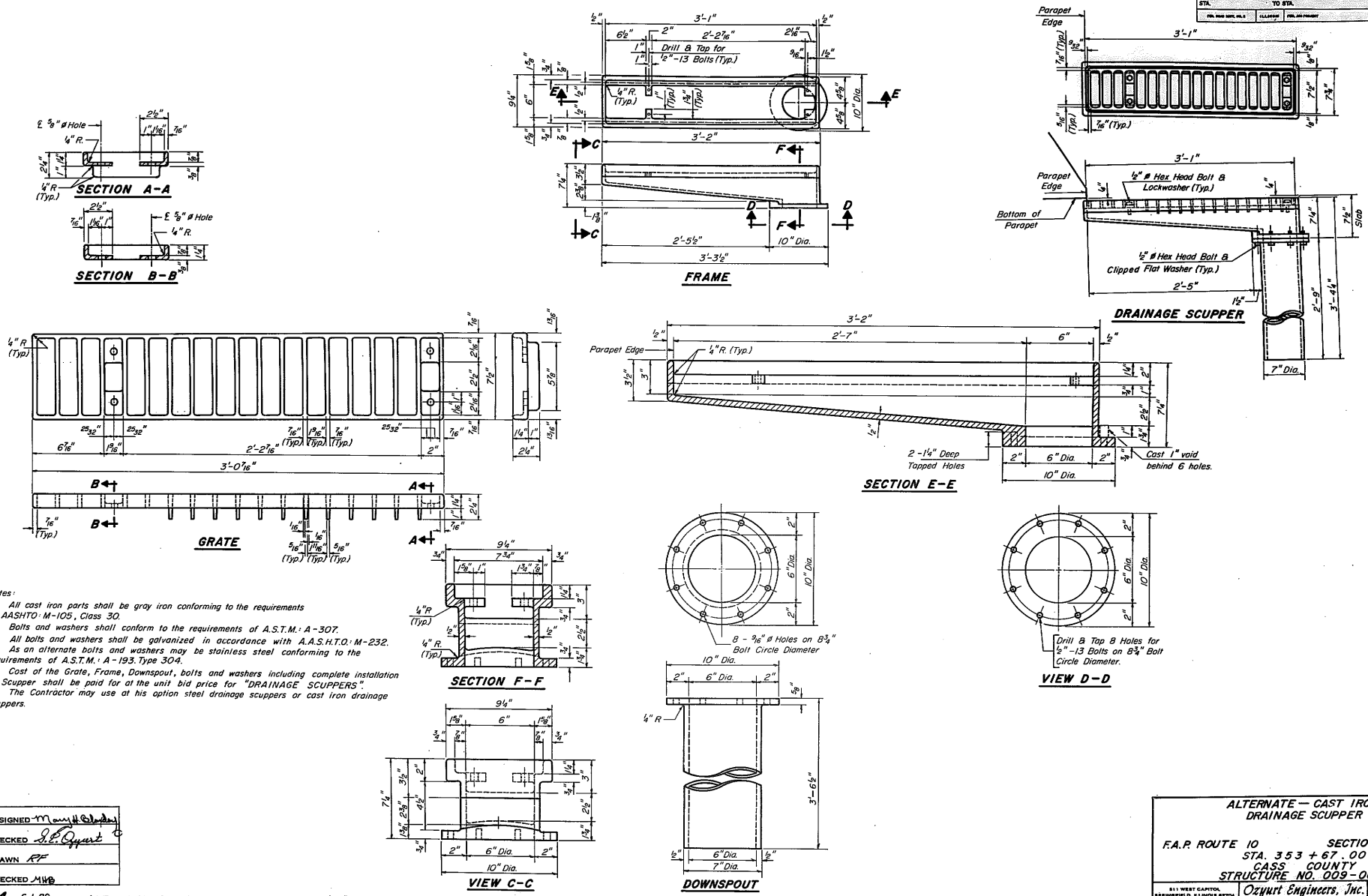
FILE NO. 90-03A
DATE

C B A 0 A B C D
TAMERAN

BAD COPY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	114B-1	CASS	42	23
STA.	TO STA.			

SHEET NO. 11
22 SHEETS



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO: M-105, Class 30.

Bolts and washers shall conform to the requirements of A.S.T.M.: A-307.

All bolts and washers shall be galvanized in accordance with A.A.S.H.T.O.: M-232.

As an alternate bolts and washers may be stainless steel conforming to the requirements of A.S.T.M.: A-193. Type 304.

Cost of the Grate, Frame, Downspout, bolts and washers including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".

The Contractor may use at his option steel drainage scuppers or cast iron drainage scuppers.

DESIGNED Mary H. Blasley
CHECKED S.E. Ozyurt
P.B.
DRAWN RF
CHECKED MHB

DS-4 6-1-89 (W.T. to inside of exterior stringer flange shall not be > 3'-11")

ALTERNATE — CAST IRON DRAINAGE SCUPPER

F.A.P. ROUTE 10 SECTION 114B-1
STA. 353 + 67.00
CASS COUNTY
STRUCTURE NO. 009-0012

511 WEST CAPITOL SPRINGFIELD, ILLINOIS 62704 (217) 585-3986
Ozyurt Engineers, Inc.
CONSULTING ENGINEERS
FILE NO. 90-03A
DATE

C B A 0 A B C D
TAMERAN