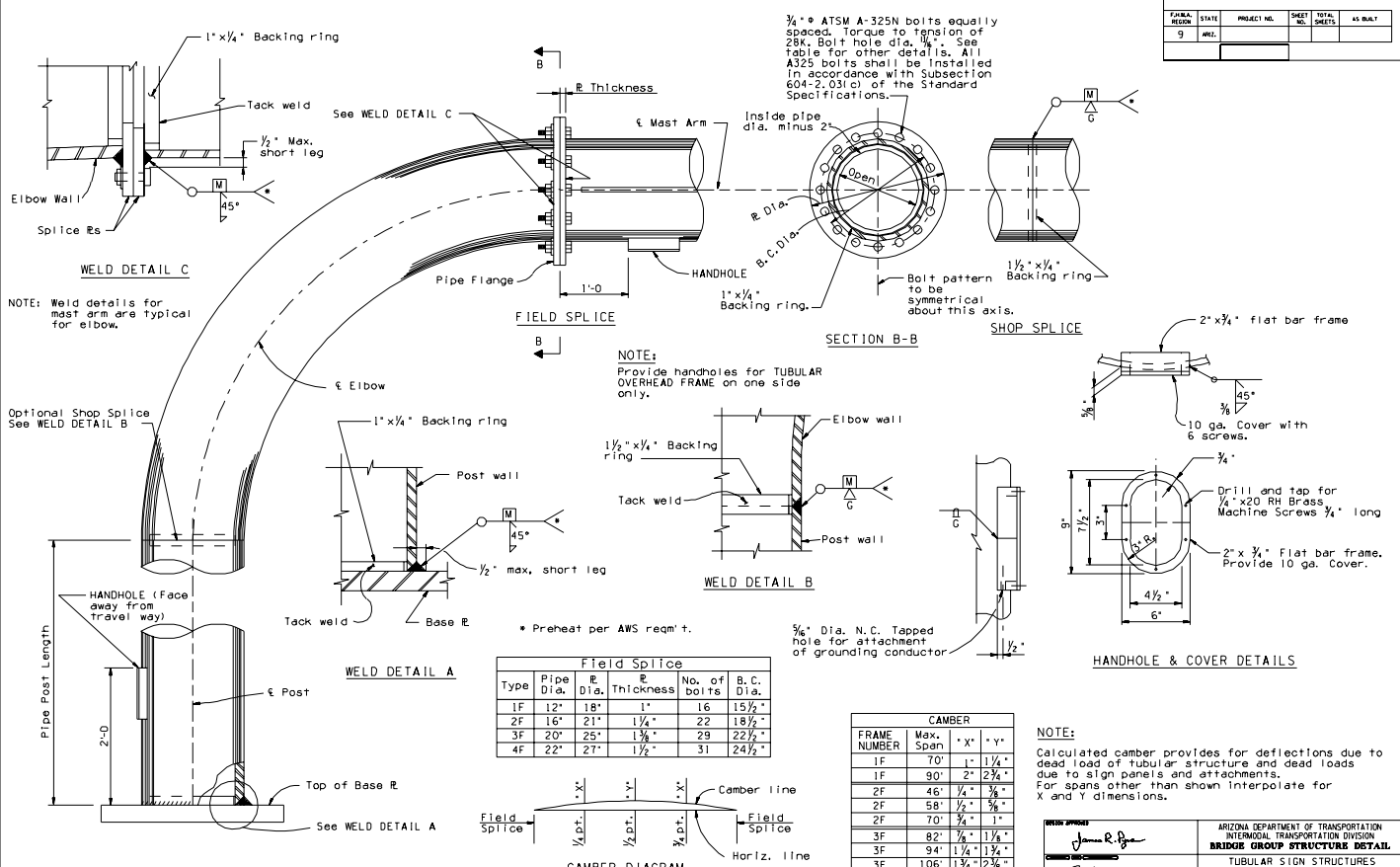
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



WELD DETAIL C

NOTE: Weld details for mast arm are typical for elbow.

FIELD SPLICE

SECTION B-B

SHOP SPLICE

NOTE:
Provide handholes for TUBULAR OVERHEAD FRAME on one side only.

WELD DETAIL A

WELD DETAIL B

HANDHOLE & COVER DETAILS

POST BASE ELEVATION

* Preheat per AWS reqm't.

Field Splice					
Type	Pipe Dia.	℞ Dia.	℞ Thickness	No. of bolts	B.C. Dia.
1F	12"	18"	1"	16	15 1/2"
2F	16"	21"	1 1/4"	22	18 1/2"
3F	20"	25"	1 3/8"	29	22 1/2"
4F	22"	27"	1 1/2"	31	24 1/2"

CAMBER DIAGRAM

Camber shown is required to be built into horizontal members. Members shall be erected so that camber is provided above the Horizontal line.

CAMBER			
FRAME NUMBER	Max. Span	"X"	"Y"
1F	70'	1"	1 1/4"
1F	90'	2"	2 3/4"
2F	46'	1/4"	3/8"
2F	58'	1/2"	5/8"
2F	70'	3/4"	1"
3F	82'	7/8"	1 1/8"
3F	94'	1 1/4"	1 3/4"
3F	106'	1 3/4"	2 3/8"
4F	118'	2"	3"
4F	130'	3"	4 1/8"
4F	142'	3 7/8"	5 5/8"

NOTE:
Calculated camber provides for deflections due to dead load of tubular structure and dead loads due to sign panels and attachments.
For spans other than shown interpolate for X and Y dimensions.

NOTE:
For Base ℞ Details see Drawing 2 of 5.

DESIGN APPROVED James R. Pyne	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION **BRIDGE GROUP STRUCTURE DETAIL**
CHECKED BY J. Daniel Davis	TUBULAR SIGN STRUCTURES TUBULAR FRAME POST AND MAST ARM DETAILS
ROUTE / LOCATION	DRAWING NO. SD 9.20 (3of5)
TRACS NO.	___ OF ___