

Texas Department of Transportation

P.O. BOX 29928 • SAN ANTONIO, TEXAS 78284-3601 • (210) 615-1110

San Antonio District
June 7, 1996

County : Guadalupe
Control : 0016-06-033
Project : NH 96(3) IM, etc.
Highway : IH 35
Limits : From FM 3009
TO Comal C/L, etc.

RECEIVED
JUN 17 1996
DESIGN DIVISION

Shop Plan File: 535
Your Order No: 96-074H

Structural Engineering Associates, INC.
3838 N.W. Loop 410 Suite 200
San Antonio, TX 78229

Gentlemen:

The PSTR I Beam Fabrication Drawings for the above mentioned project have been reviewed by this office. The drawings are approved and you may proceed with fabrication.

One set of erection drawings, included herein, has been sent to the contractor.

Should you have any questions or need additional information please contact Patricia Hernandez at (210) 615-5882.

Sincerely,

Kenneth Kolodzie, P.E.
Kenneth Kolodzie, P.E.
District Bridge Engineer

bcc: **Design Division (1)**
Materials and Test Division (2)
San Antonio District Structural Design, CF & RF
Area Engineer: David Kopp, P.E.
Contractor: Acme Bridge Company, Inc

JUN 17 1996
DESIGN DIVISION

I N D E X

STRUCTURE		BEAM		LENGTH			1/2" Ø -270k LO-LAX STRANDS					CONCRETE		ENDS		BEAM DETAIL SHEET NO.	DESIGN REFERENCE NO.	REMARKS
DESIG- NATION	SPAN NO.	MARK NO.	QUANTITY	I.D.T.S. ADDED	DESIGN	CAST	TOTAL QUANTITY	"e" AT C	"e" AT END	DEPRESSED		MINIMUM RELEASE	MIN. COMP. 28 DAY STRENGTH	SKEW (INCHES)	BATTER (INCHES)			
IH 35 UNDERPASS AT WEIDERSTEIN ROAD (STRUCTURE NO. 207)	1	RT-1	1	Added	94.68'	94.73'	34	20.87"	12.75"	6	A-52	4017	5000	None	1"	RT-1	GP-NS-LR	NONE
	1	RT-2	4	Added	94.68'	94.73'	34	20.87"	12.75"	6	A-52	4017	5000	None	1"	RT-2	GP-NS-LR	NONE
	1	RT-3	1	Added	94.68'	94.73'	34	20.87"	12.75"	6	A-52	4017	5000	None	1"	RT-3	GP-NS-LR	NONE
	2	RT-4	1	Added	114.72'	114.78'	56	18.89"	10.32"	12	A-52	5901	7477	None	1 5/8"	RT-4	GP-NS-LR	NONE
	2	RT-5	4	Added	114.72'	114.78'	56	18.89"	10.32"	12	A-52	5901	7477	None	1 5/8"	RT-5	GP-NS-LR	NONE
	2	RT-6	1	Added	114.72'	114.78'	56	18.89"	10.32"	12	A-52	5901	7477	None	1 5/8"	RT-6	GP-NS-LR	NONE
IH 35 UNDERPASS AT FM 482 (F.M. 2252) (STRUCTURE NO. 136)	1	RW-1	1	Added	49.69'	49.71'	22	8.91"	8.91"	STRAIGHT		4100	5000	None	1 1/8"	RW-1	O.D. #1	NONE
	1	RW-2	1	Added	49.69'	49.71'	22	8.91"	8.91"	STRAIGHT		4100	5000	None	1 1/8"	RW-2	O.D. #1	NONE
	2	RW-3	1	None	64.67'	64.70'	22	13.82"	8.91"	6	A-24	4027	5000	None	None	RW-3	GP-NS-LR	NONE
	2	RW-4	1	None	64.67'	64.70'	22	13.82"	8.91"	6	A-24	4027	5000	None	None	RW-4	GP-NS-LR	NONE
	3	RW-5	1	None	64.67'	64.70'	22	13.82"	8.91"	6	A-24	4027	5000	None	None	RW-5	GP-NS-LR	NONE
	3	RW-6	1	None	64.67'	64.70'	22	13.82"	8.91"	6	A-24	4027	5000	None	None	RW-6	GP-NS-LR	NONE
	4	RW-7	1	Added	49.69'	49.71'	22	8.91"	8.91"	STRAIGHT		4100	5000	None	1 1/8"	RW-7	O.D. #1	NONE
	4	RW-8	1	Added	49.69'	49.71'	22	8.91"	8.91"	STRAIGHT		4100	5000	None	1 1/8"	RW-8	O.D. #1	NONE

FOR APPROVAL
MAY 29 1996

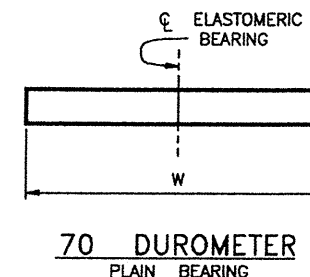
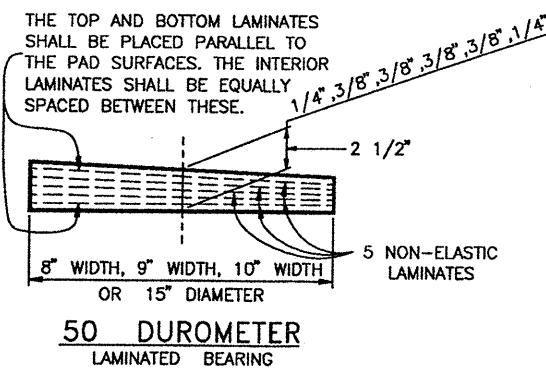
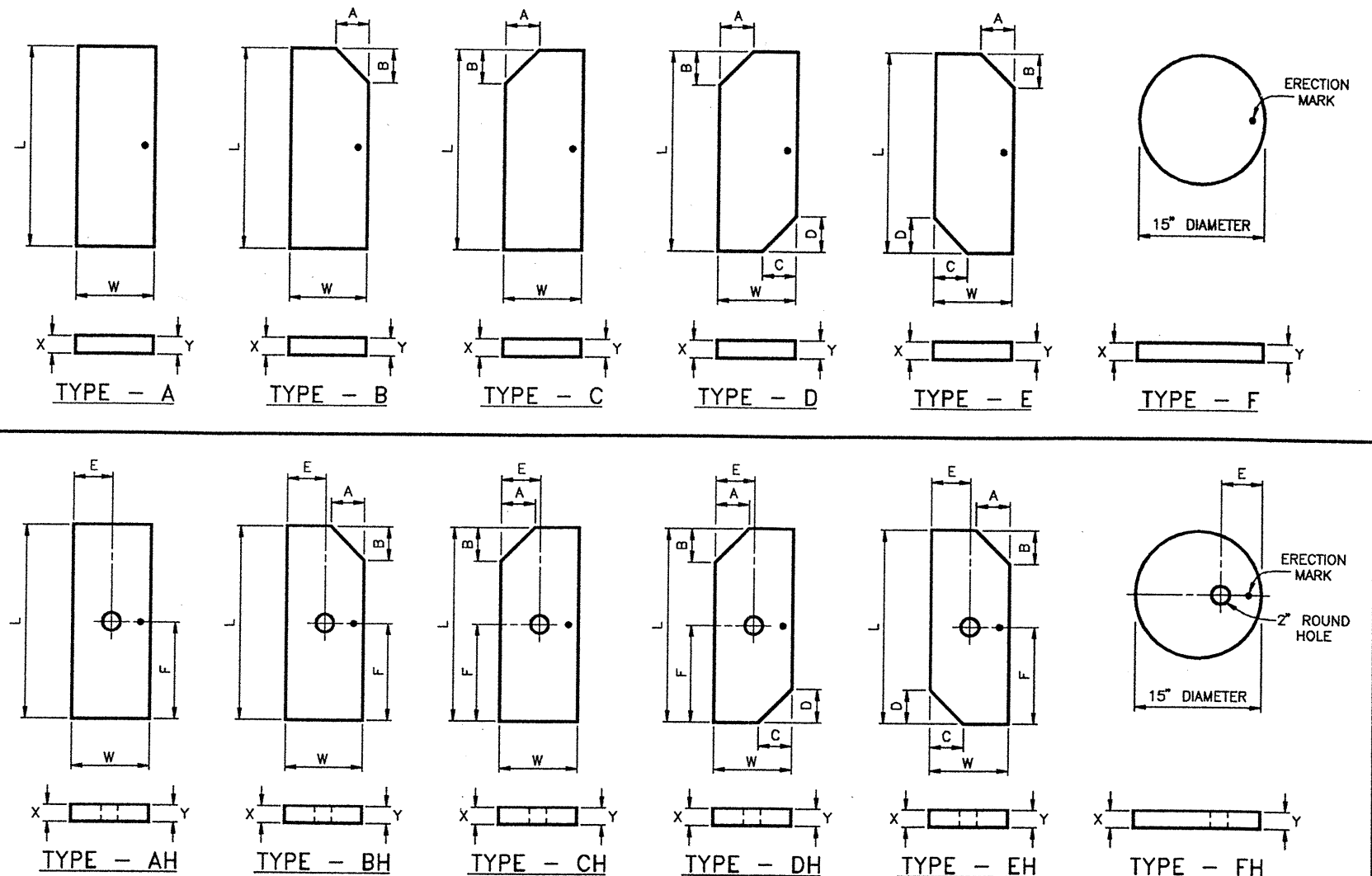
TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

TOTAL LINEAR FEET OF THIS PROJECT : 1713.84'

TEXAS CONCRETE COMPANY				
CONTRACTOR : ACME BRIDGE CO., INC.				
FED.RD. DIV.NO.	STATE	PROJECT NO.		HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.		IH 35
STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY		SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS		
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET NO. I-1
SEA JOB NO. 96-074H		INDEX SHEET		

ELASTOMERIC BEARING PADS SCHEDULE

MARK	TYPE	DURO.	QUANT.	X	Y	L	W	A	B	C	D	E	F
P-1	AH	50	2	2 9/16"	2 7/16"	22"	9"					4 1/2"	11"
P-2	A	50	10	2 9/16"	2 7/16"	22"	9"						
P-3	AH	50	2	2 5/8"	2 3/8"	22"	9"					4 1/2"	11"
P-4	A	50	10	2 5/8"	2 3/8"	22"	9"						
P-5	AH	50	2	2 3/8"	2 5/8"	19"	9"					4 1/2"	9 1/2"
P-6	A	50	6	2 3/8"	2 5/8"	19"	9"						
P-7	AH	50	2	2 1/2"	2 1/2"	19"	9"					4 1/2"	9 1/2"
P-8	A	50	6	2 1/2"	2 1/2"	19"	9"						



NOTE: THE USE OF NATURAL RUBBER, FOR THE MANUFACTURE OF BEARING PADS, SHALL NOT BE PERMITTED.

- DENOTES 2" ROUND HOLE
- DENOTES ERECTION MARK

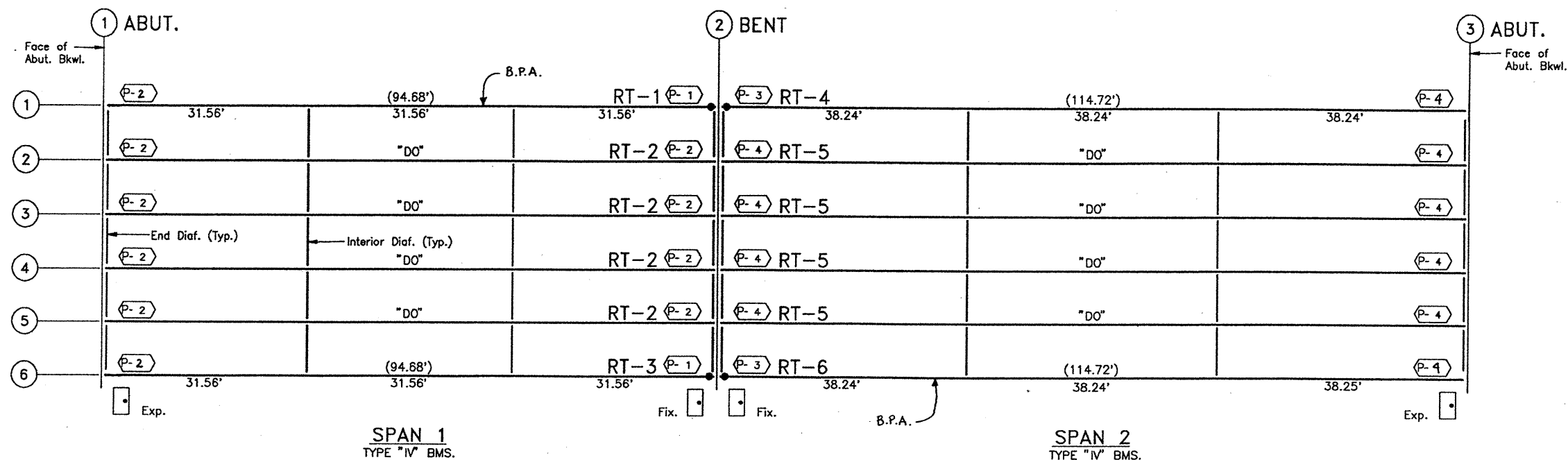
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OF DETAIL

FOR APPROVAL
MAY 29 1996

TEXAS CONCRETE COMPANY					
CONTRACTOR : ACME BRIDGE CO., INC.					
FED.RD. DIV.NO.	STATE	PROJECT NO.		HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.		IH 35	
STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	
COPYRIGHT 1989 BY		STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS			
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET NO. NP-1	
SEA JOB NO. 96-074H		NEOPRENE PADS			

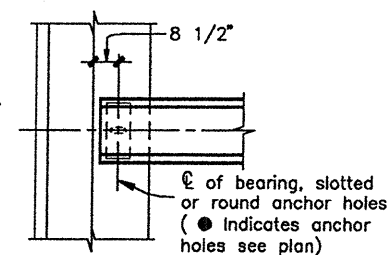


IH 35 UNDERPASS AT WEIDERSTEIN ROAD (STRUCTURE NO. 207)

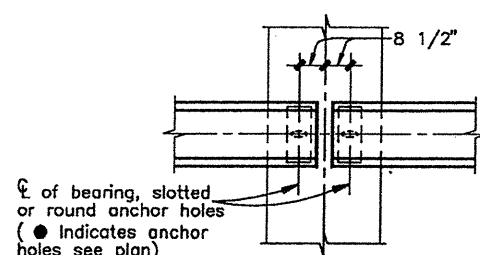
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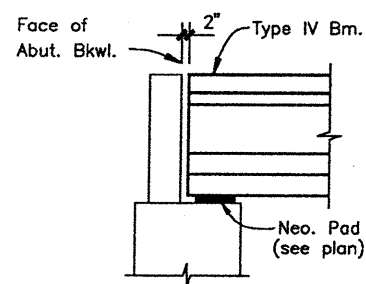
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OF DETAIL



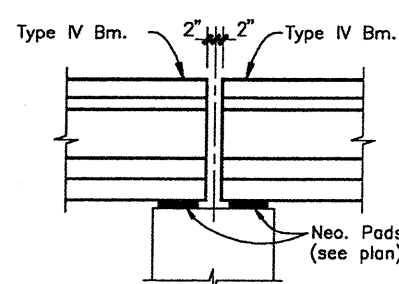
PLAN AT ABUT. 1
(ABUT. 3 SIM.)



PLAN AT BENT 2



ELEV. AT ABUT. 1
(ABUT. 3 SIM.)



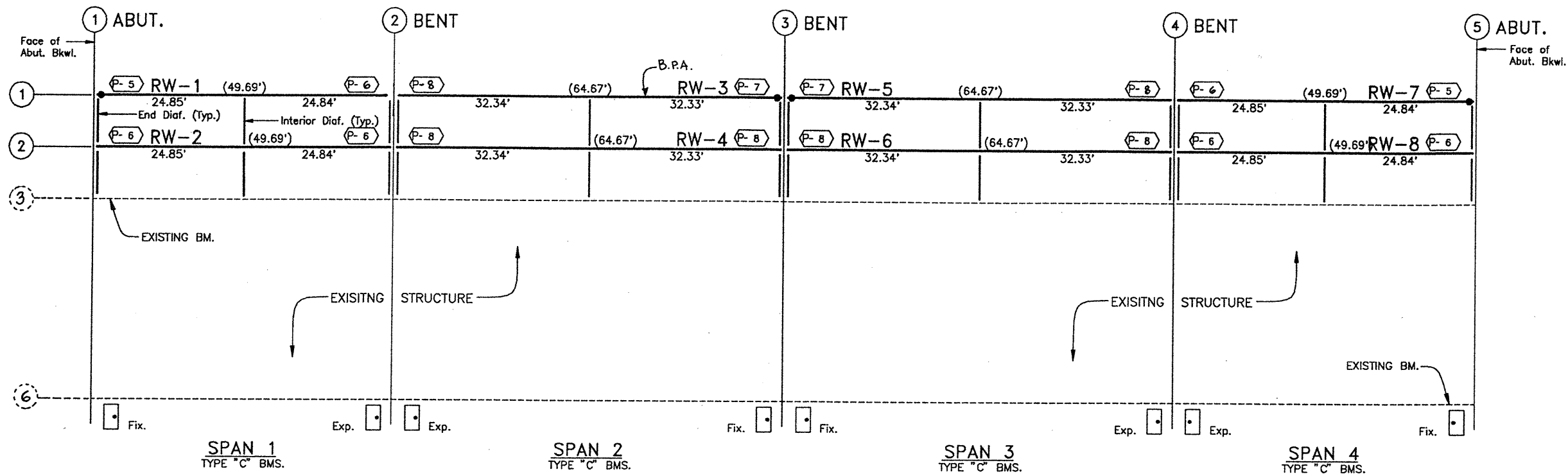
ELEV. AT BENT 2

FOR APPROVAL
MAY 29 1996

TOTAL LINEAR FEET OF THIS BRIDGE	TYPE OF INSERT
TYPE "IV" BMS. = 1,256.40' L.F.	45° HANGERS

TEXAS CONCRETE COMPANY				
CONTRACTOR : ACME BRIDGE CO., INC.				
CONTRACTORS OPTIONS	END DIAFRAM INTERIOR DIAFRAM	THICKENED SLAB STEEL	SLAB : PANELS	
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5 - 29 - 96	SHEET NO. E-1
SEA JOB NO. 96-074H		ERECTION SHEET		

() INDICATES BEAM LENGTH

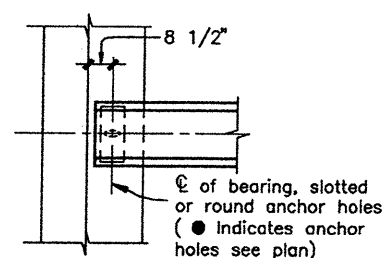


IH 35 UNDERPASS
AT FM 482 (F.M. 2252)
(STRUCTURE NO. 136)

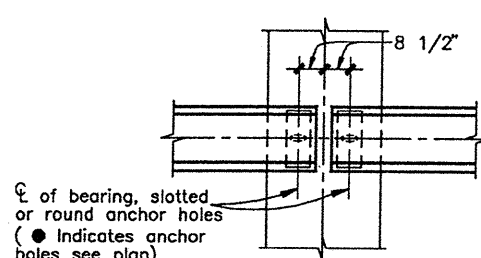
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SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996

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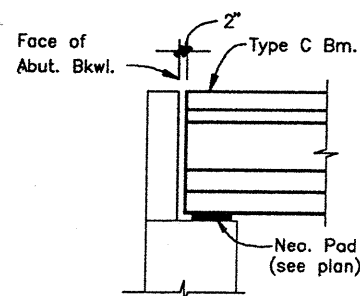
TOTAL LINEAR FEET OF THIS BRIDGE	TYPE OF INSERT
TYPE "C" BMS. = 457.44' L.F.	45' HANGERS 90' HANGERS



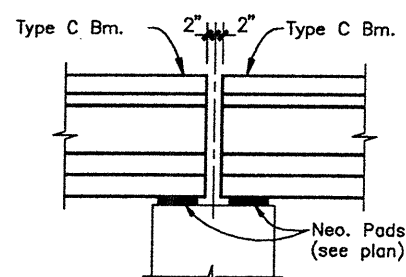
PLAN AT ABUT. 1
(ABUT. 5 SIM.)



PLAN AT BENTS 2,3 & 4




ELEV. AT ABUT. 1
(ABUT. 5 SIM.)



ELEV. AT BENTS 2,3 & 4

FOR APPROVAL
MAY 29 1996

() INDICATES BEAM LENGTH

TEXAS CONCRETE COMPANY					
CONTRACTOR : ACME BRIDGE CO., INC.					
CONTRACTORS OPTIONS		END DIAFRAM :THICKENED SLAB END INTERIOR DIAFRAM : STEEL		SLAB : C.I.P.	
FED.RD. DIV.NO.	STATE	PROJECT NO.			HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.			IH 35
STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	
COPYRIGHT 1989 BY		 STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS			
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5 - 29 -96	SHEET NO. E-2	
SEA JOB NO. 96-074H		ERECTION SHEET			

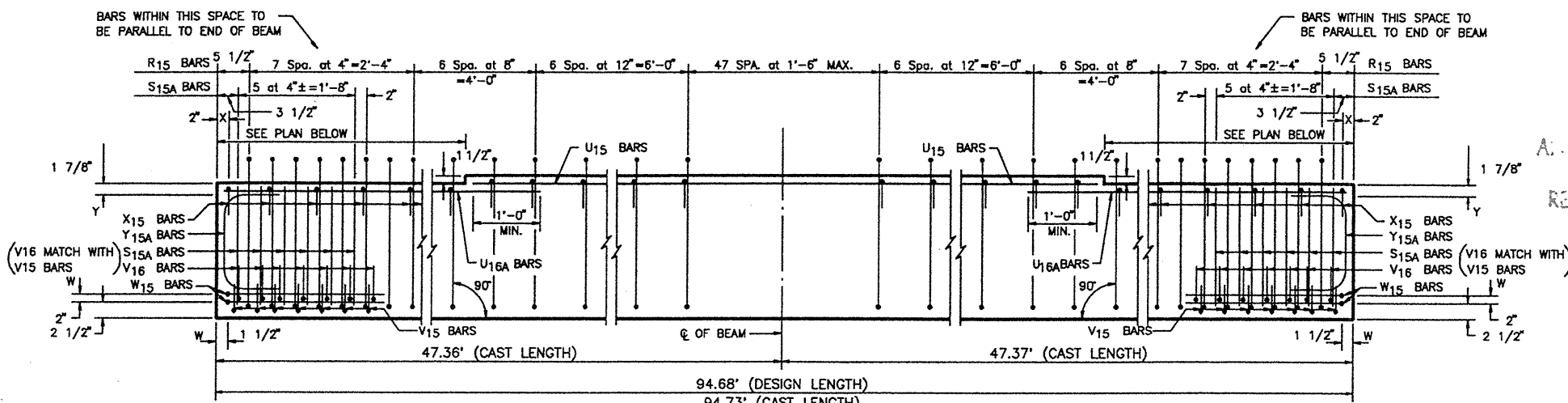
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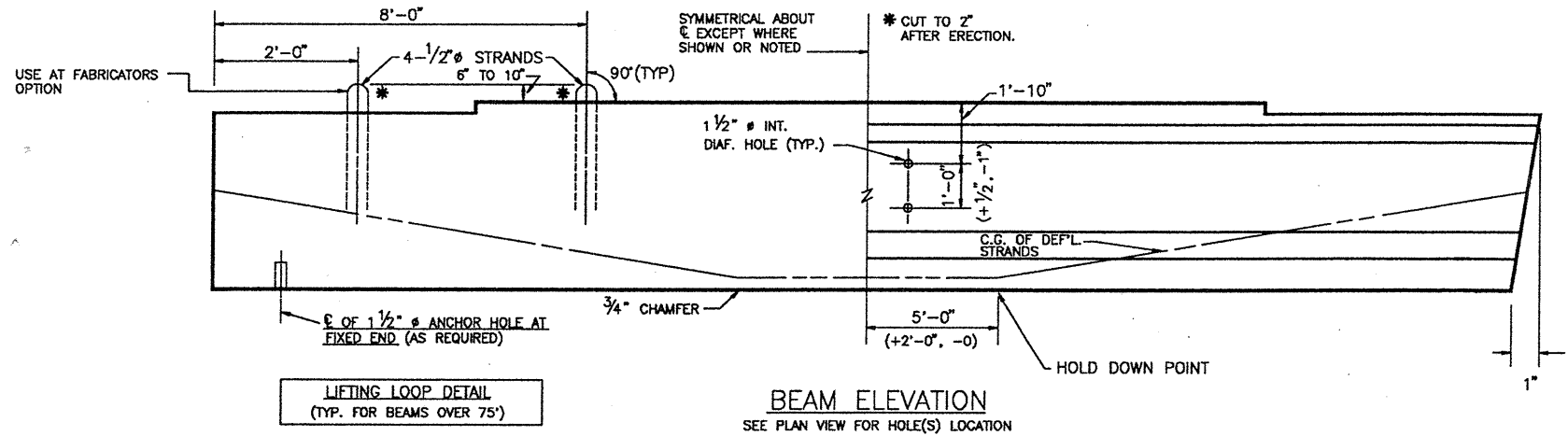
ALL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R15	86	86	#4	standard
X15	80	80	#3	standard
Y15A	4	4	#6	standard
S15A	24	24	#7	standard
V15	14	14	#3	standard
W15	4	4	#5	standard
U15	2	2	#5	86'-10"
U16A	4	4	#5	6'-6"
V16	28	28	#4	standard

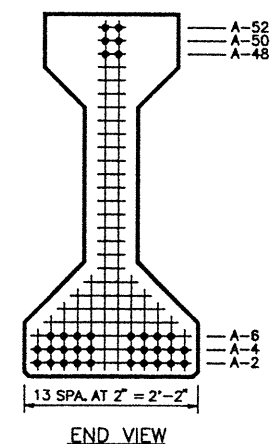
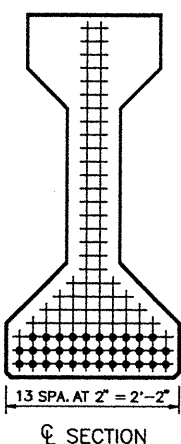
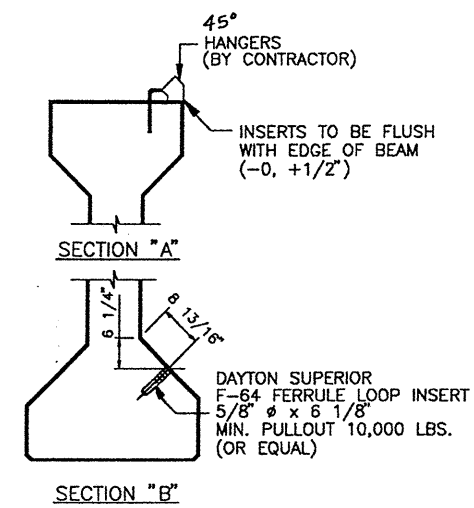
• AT FABRICATOR'S OPTION #4



ELEVATION - REINFORCING STEEL



BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION



TYPE "IV" BEAM QUANTITY : 1

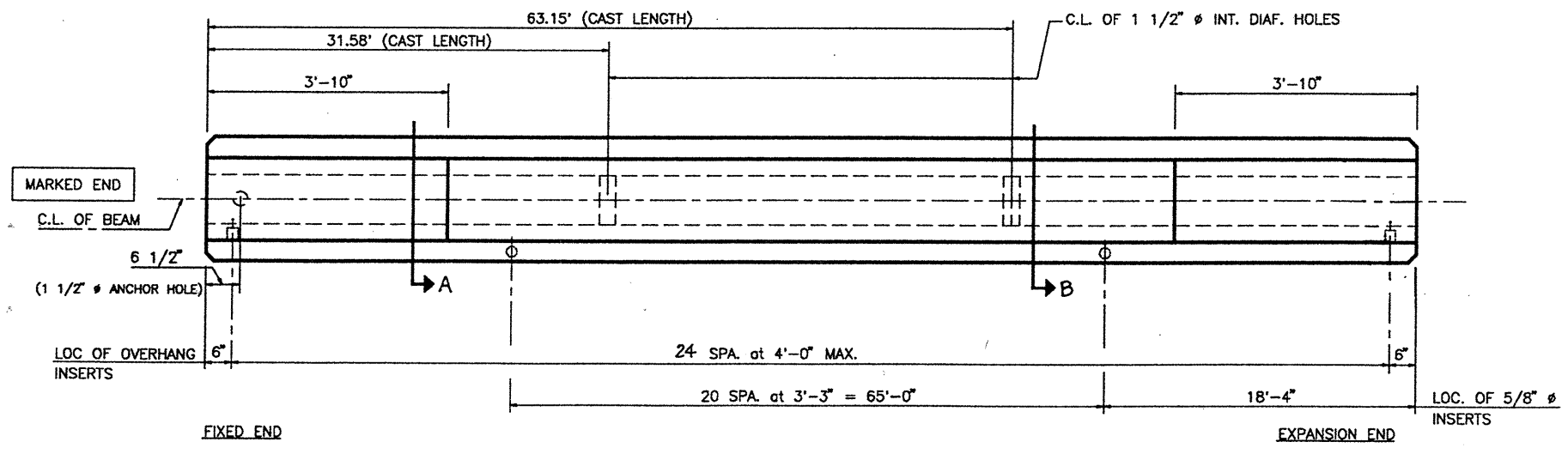
LO-LAX STRAND PATTERN	
NUMBER OF STRANDS :	34 ~ 1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	28
NUMBER OF DEFLECTED STRANDS :	6 @ A - 52
CONCRETE RELEASE STRENGTH :	4017 PSI
CONCRETE DESIGN STRENGTH :	5000 PSI
ECCENTRICITY @ C.E. :	20.87" ECCENTRICITY @ END : 12.75"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 94.68'

TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RT-1
SEA JOB NO. 96-074H	FABRICATION SHEET			

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
8.00'	16.00'
FABRICATORS USE ONLY	



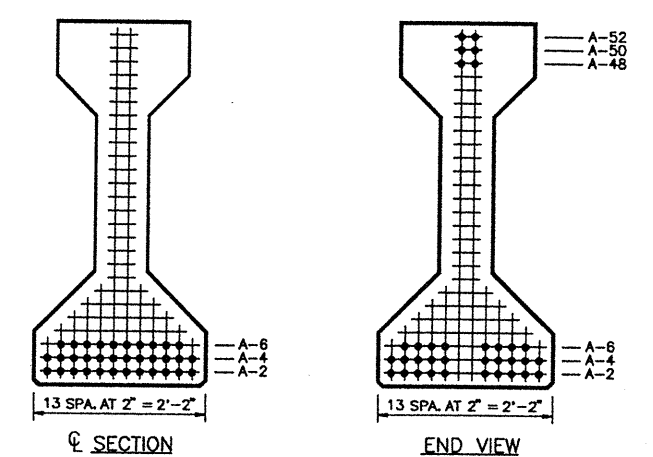
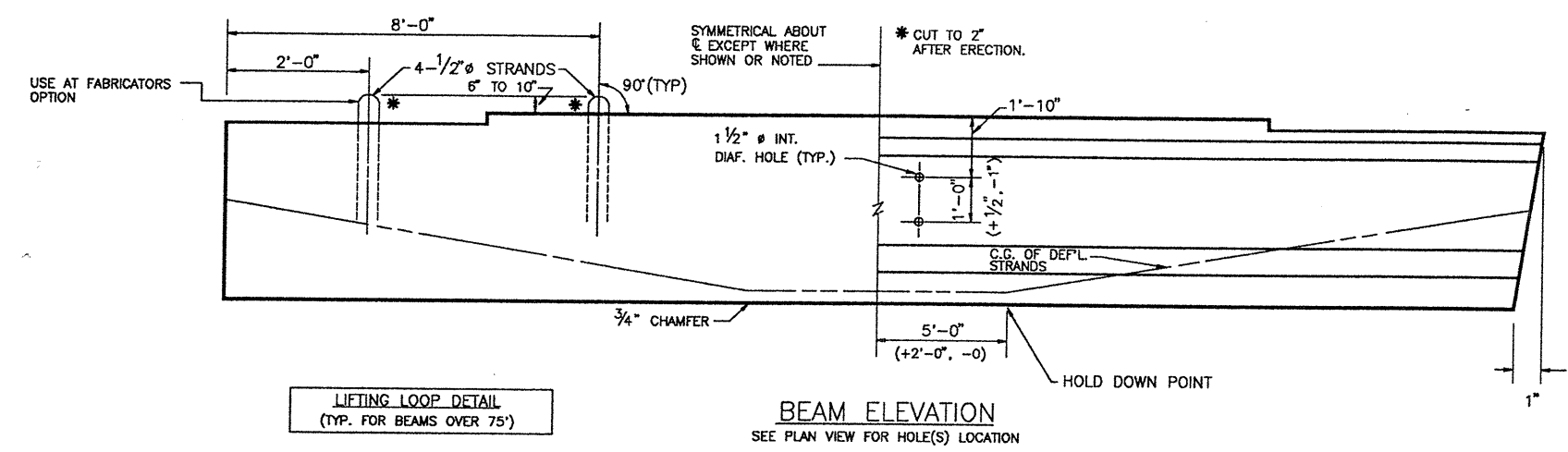
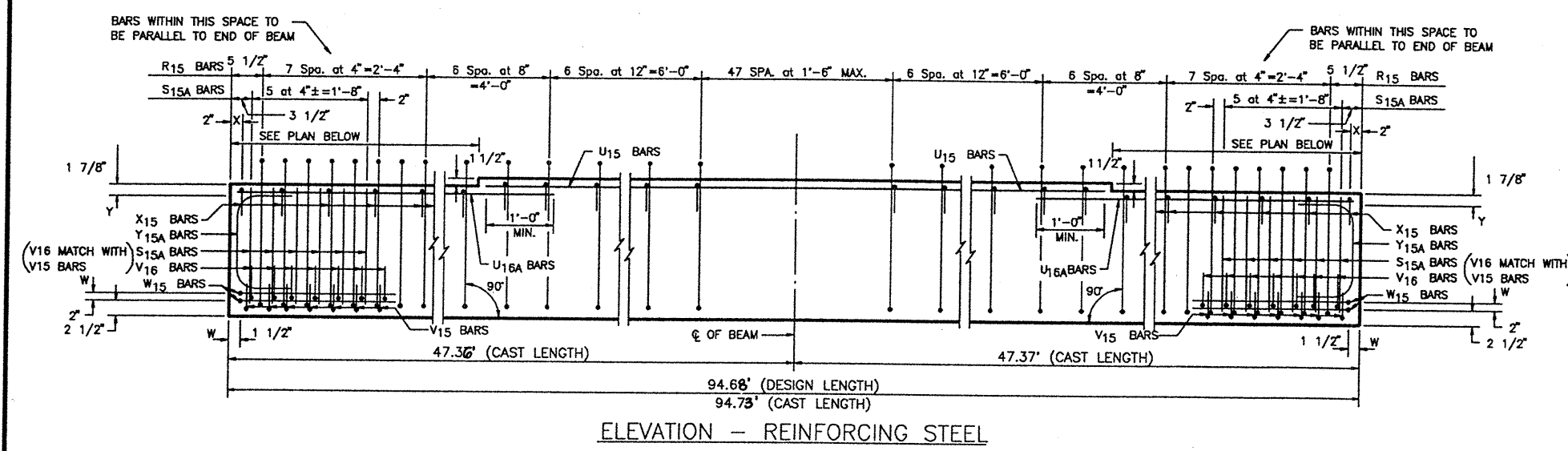
PLAN

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R15	86	344	#4	standard
X15	80	320	#3	standard
Y15A	4	16	#6	standard
S15A	24	96	#7	standard
V15	14	56	#3	standard
W15	4	16	#5	standard
U15	2	8	#5	86'-10"
U16A	4	16	#5	6'-6"
V16	28	112	#4	standard

• AT FABRICATOR'S OPTION #4

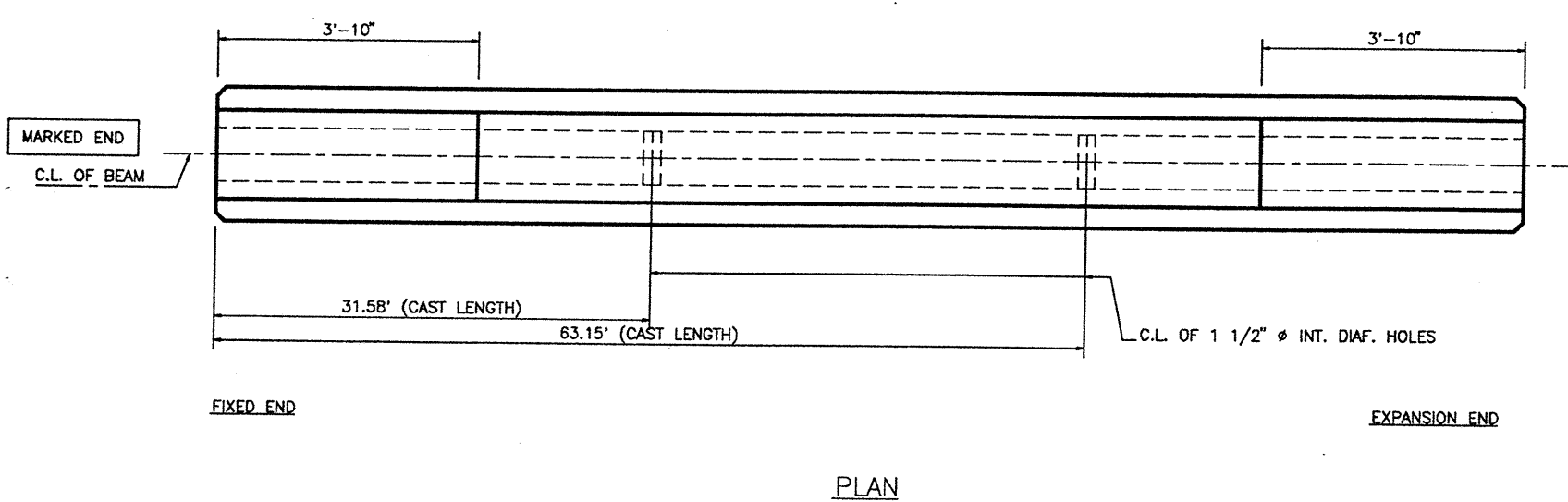


TYPE "IV" BEAM QUANTITY : 4

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS :	34 ~1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	28
NUMBER OF DEFLECTED STRANDS :	6 @ A - 52
CONCRETE RELEASE STRENGTH :	4017 PSI
CONCRETE DESIGN STRENGTH :	5000 PSI
ECCENTRICITY @ C :	20.87" ECCENTRICITY @ END : 12.75"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 378.72'

TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA		STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS		
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RT-2
SEA JOB NO. 96-074H		FABRICATION SHEET		



TOP FINISH PANELS
SEE STANDARD SHEET S-"IV" FOR TOP FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
8.00'	16.00'

FABRICATORS USE ONLY

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

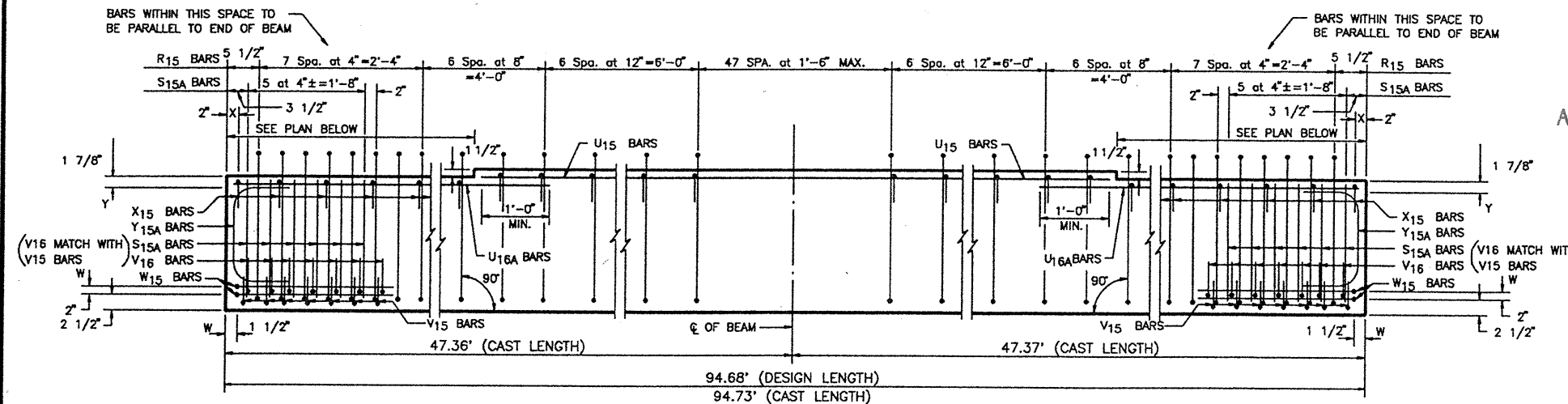
JUN 07 1996

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RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

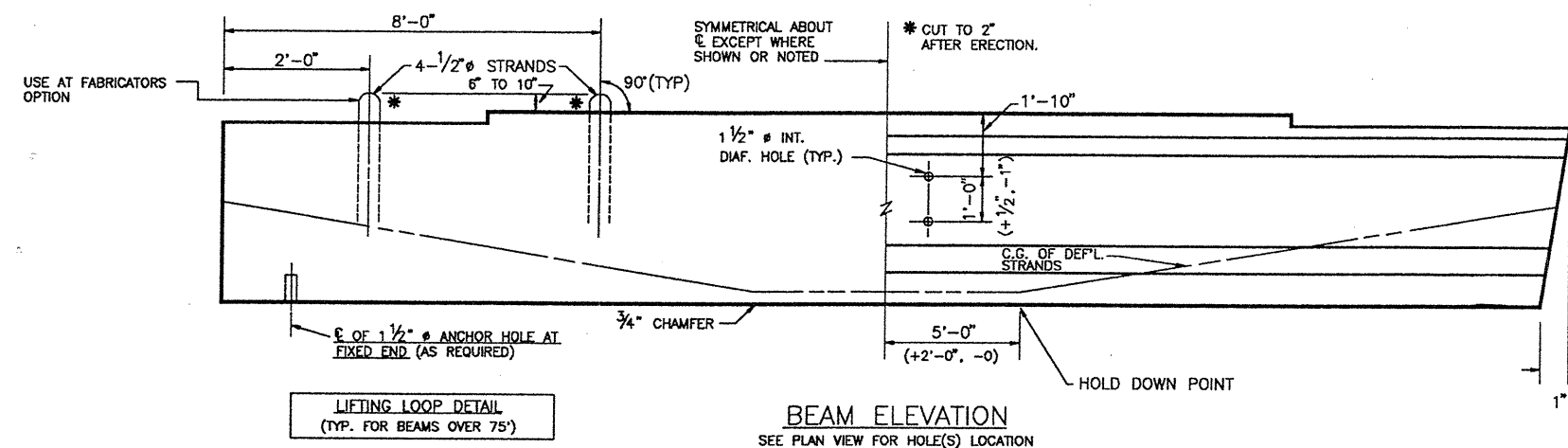
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R15	86	86	#4	standard
X15	80	80	#3	standard
Y15A	4	4	#6	standard
S15A	24	24	#7	standard
V15	14	14	#3	standard
W15	4	4	#5	standard
U15	2	2	#5	86'-10"
U16A	4	4	#5	6'-6"
V16	28	28	#4	standard

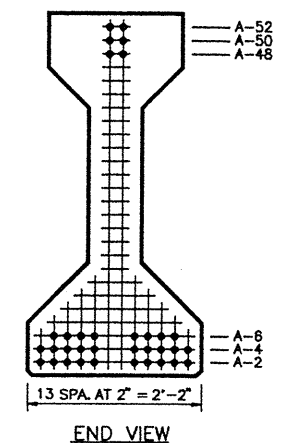
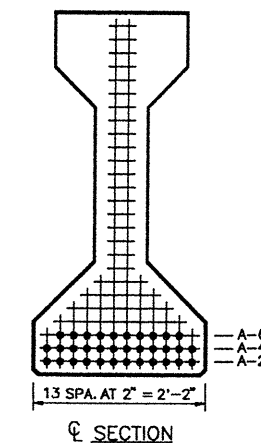
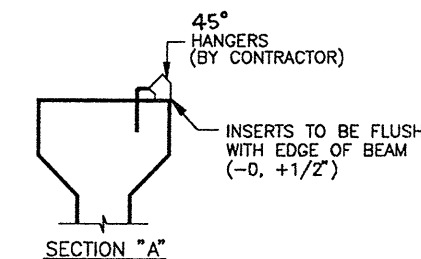
• AT FABRICATOR'S OPTION #4



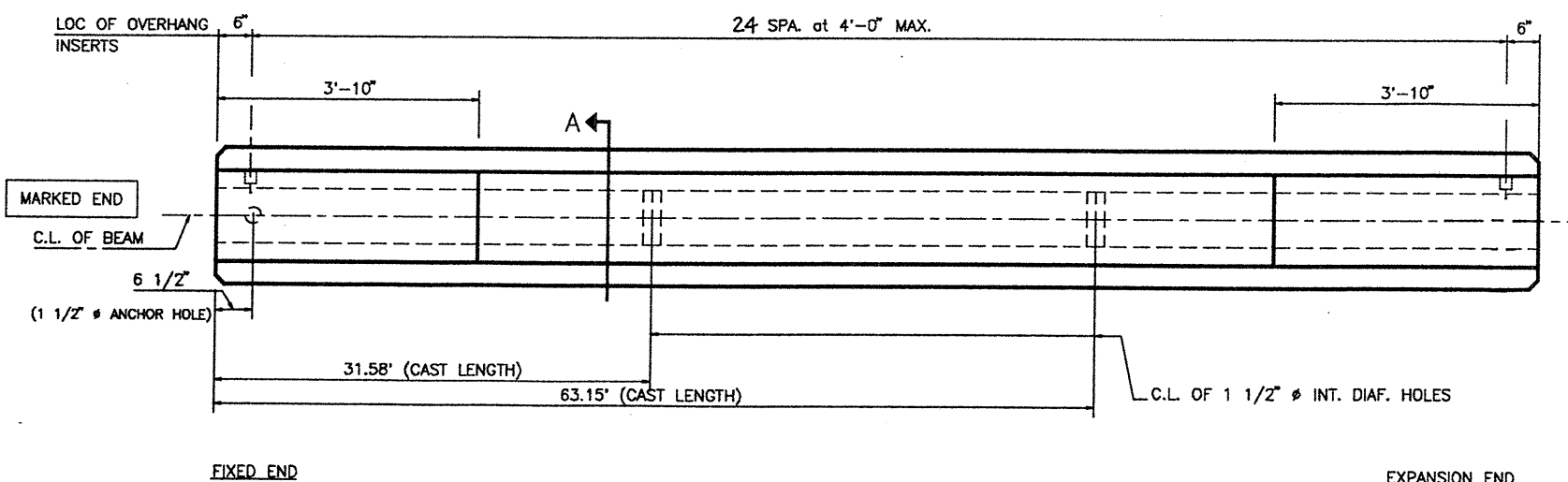
ELEVATION - REINFORCING STEEL



BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION



TYPE "IV" BEAM QUANTITY : 1



PLAN

TOP FINISH PANELS
SEE STANDARD SHEET S-IV FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
8.00'	16.00'

FABRICATORS USE ONLY

LO-LAX STRAND PATTERN				
NUMBER OF STRANDS :	34	~1/2" Ø	270 K @	31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	28			
NUMBER OF DEFLECTED STRANDS :	6	@	A - 52	
CONCRETE RELEASE STRENGTH :	4017			PSI
CONCRETE DESIGN STRENGTH :	5000			PSI
ECCENTRICITY @ C :	20.87"			ECCENTRICITY @ END : 12.75"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 94.68'

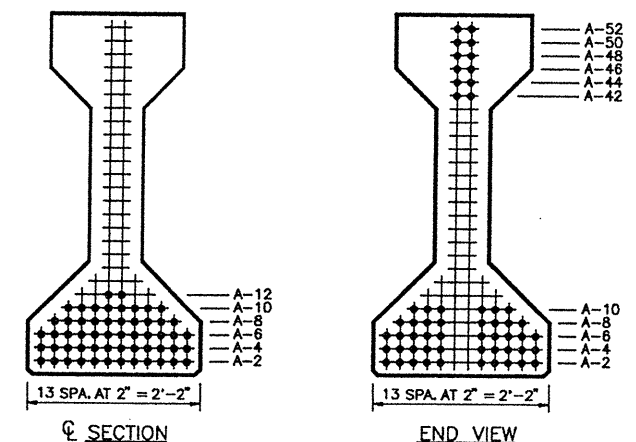
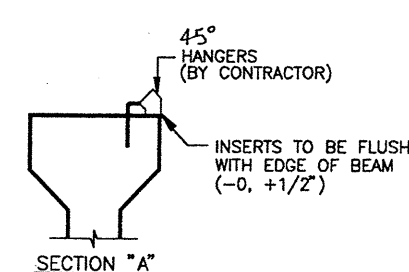
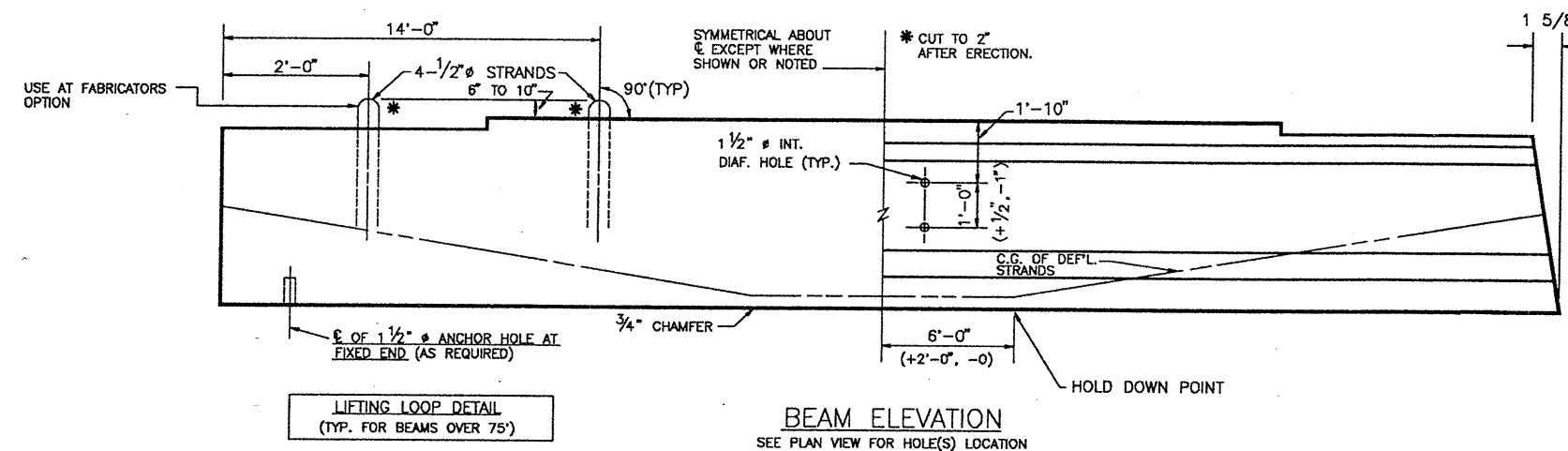
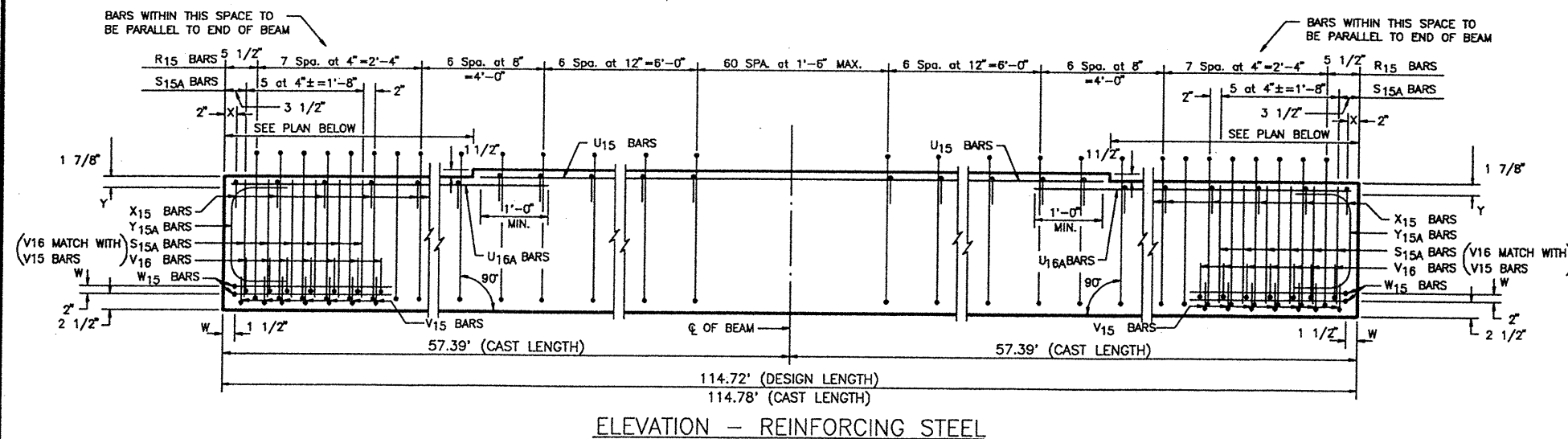
TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RT-3
SEA JOB NO. 96-074H	FABRICATION SHEET			

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R15	99	99	#4	standard
X15	93	93	#3	standard
Y15A	4	4	#6	standard
S15A	24	24	#7	standard
V15	14	14	#3	standard
W15	4	4	#5	standard
U15	2	2	#5	106'-10"
U16A	4	4	#5	6'-6"
V16	28	28	#4	standard

• AT FABRICATOR'S OPTION #4

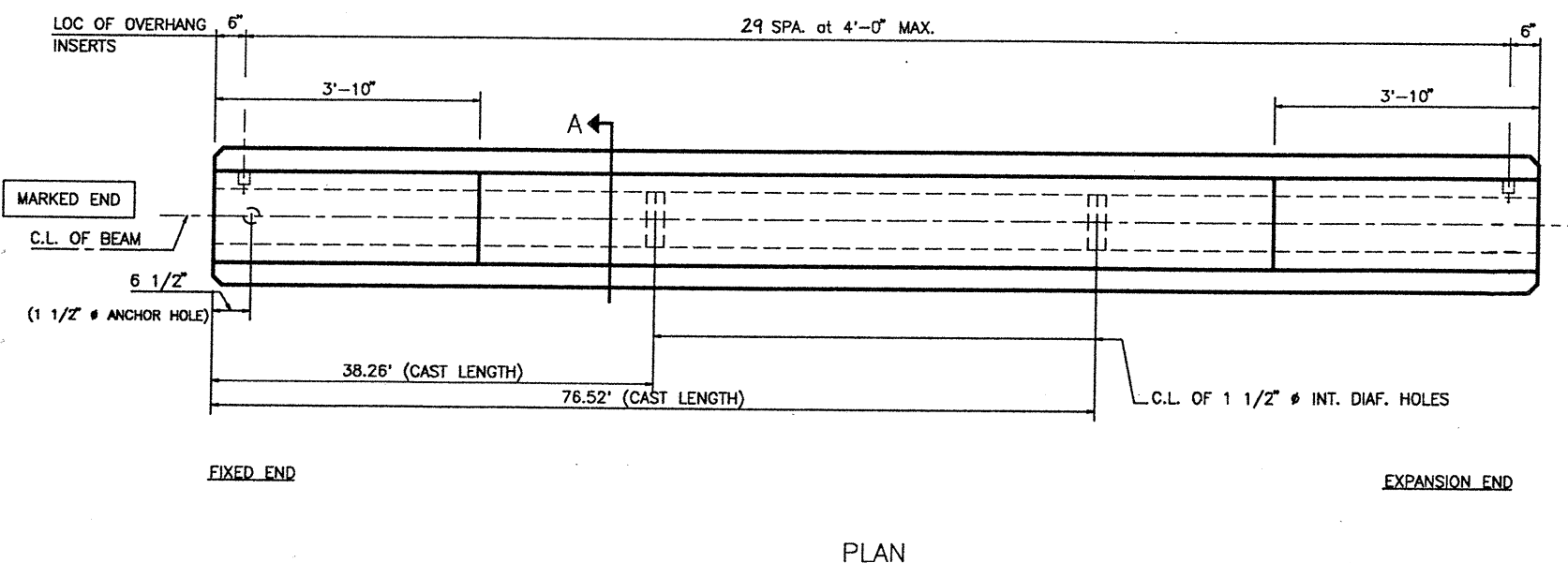


TYPE "IV" BEAM QUANTITY : 1

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS :	56 ~ 1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	44
NUMBER OF DEFLECTED STRANDS :	12 @ A - 52
CONCRETE RELEASE STRENGTH :	5901 PSI
CONCRETE DESIGN STRENGTH :	7477 PSI
ECCENTRICITY @ C :	18.89" ECCENTRICITY @ END : 10.32"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 114.72'

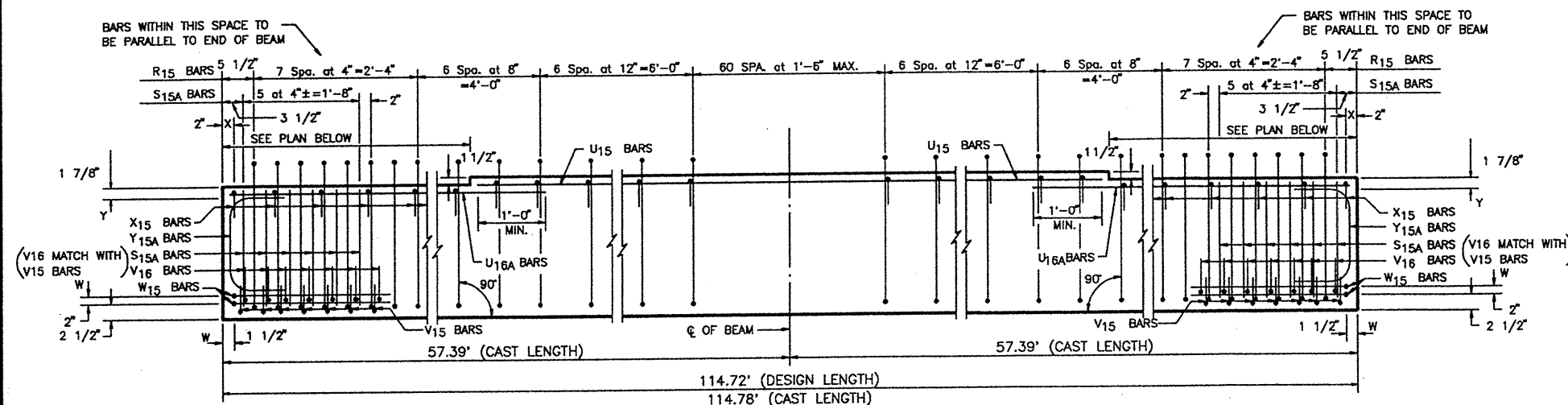
TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RT-4
SEA JOB NO. 96-074H	FABRICATION SHEET			



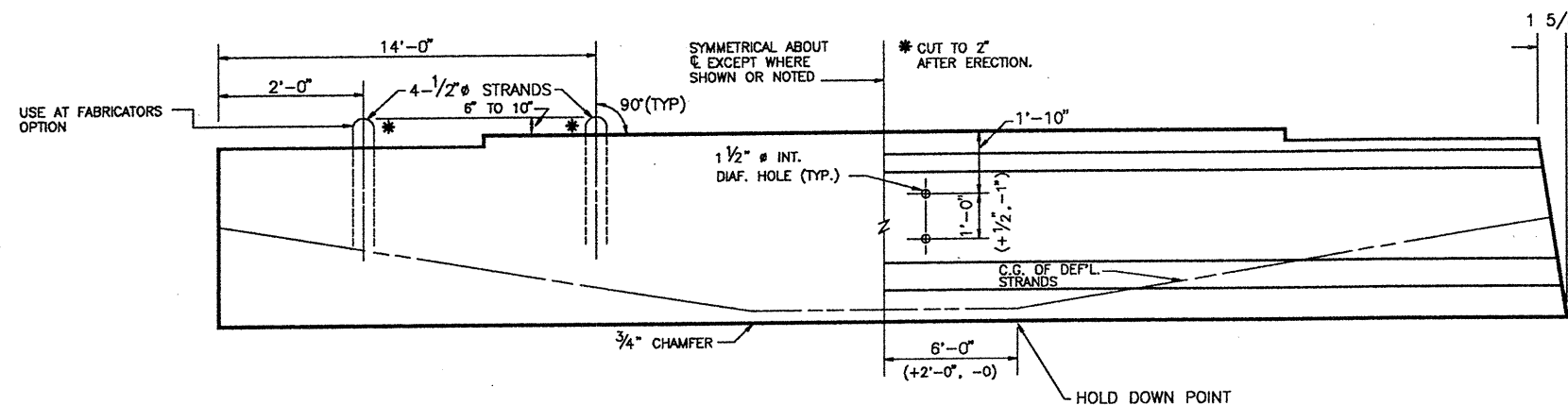
TOP FINISH PANELS
SEE STANDARD SHEET S-"IV" FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
15.00'	28.00'
FABRICATORS USE ONLY	



ELEVATION - REINFORCING STEEL

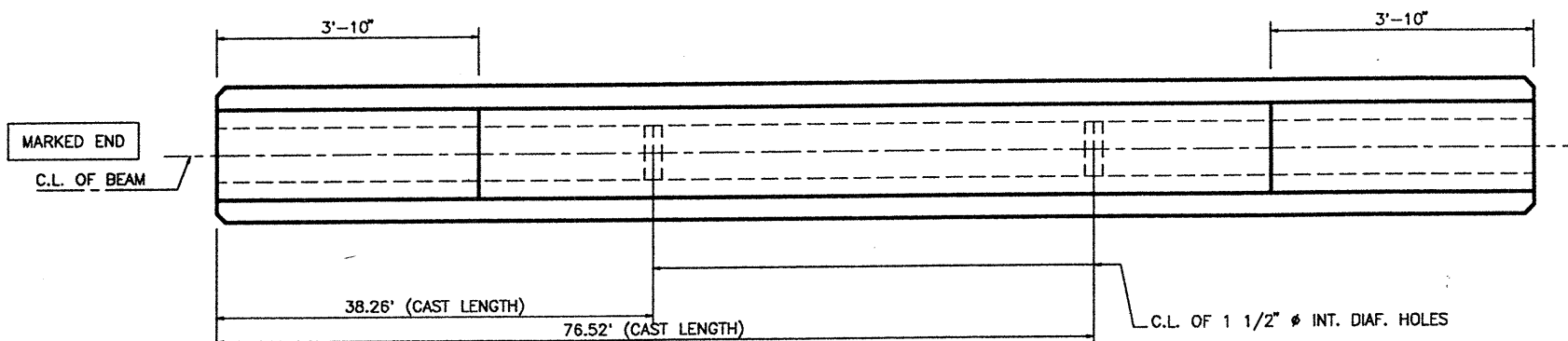


LIFTING LOOP DETAIL
(TYP. FOR BEAMS OVER 75')

BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL



FIXED END

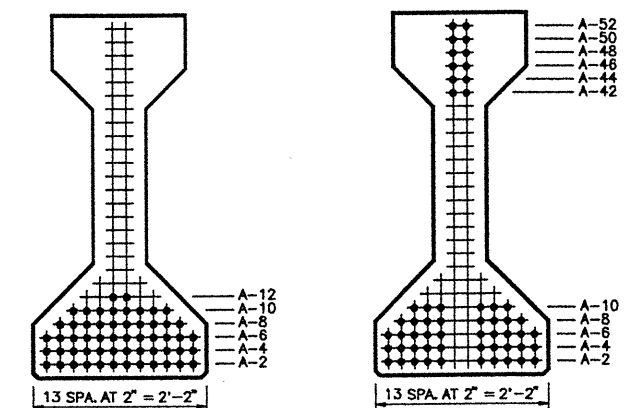
EXPANSION END

PLAN

REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R15	99	396	#4	standard
X15	93	372	#3	standard
Y15A	4	16	#6	standard
S15A	24	96	#7	standard
V15	14	56	#3	standard
W15	4	16	#5	standard
U15	2	8	#5	106'-10"
U16A	4	16	#5	6'-6"
V16	28	112	#4	standard

• AT FABRICATOR'S OPTION #4



SECTION

END VIEW

TYPE "IV" BEAM QUANTITY : 4

LO-LAX STRAND PATTERN

NUMBER OF STRANDS	: 56 ~1/2" @ 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS	: 44
NUMBER OF DEFLECTED STRANDS	: 12 @ A - 52
CONCRETE RELEASE STRENGTH	: 5901 PSI
CONCRETE DESIGN STRENGTH	: 7477 PSI
ECCENTRICITY @ C.L.	: 18.89" ECCENTRICITY @ END : 10.32"

DESIGN NO. : GP-NS-LR

TOTAL BEAM LENGTH OF THIS SHEET : 458.88'

TEXAS CONCRETE COMPANY

CONTRACTOR ACME BRIDGE CO., INC.

FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0015	06
			JOB NO.
			033ETC

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JOB NO.	DRAWN	CHECKED	DATE	SHEET/MARK NO.
608	C.J.B.	D.M.P.	5-29-96	RT-5
SEA JOB NO. 96-074H	FABRICATION SHEET			

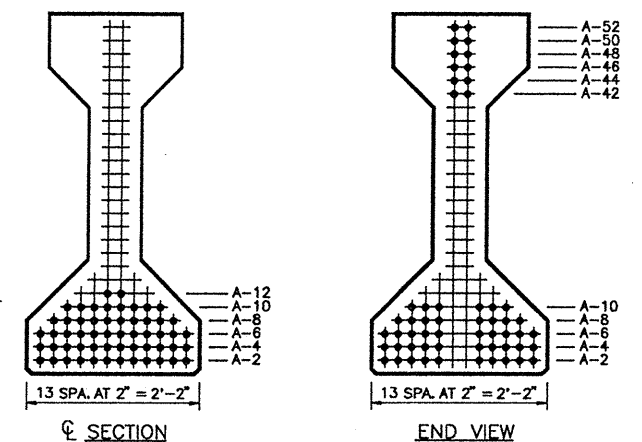
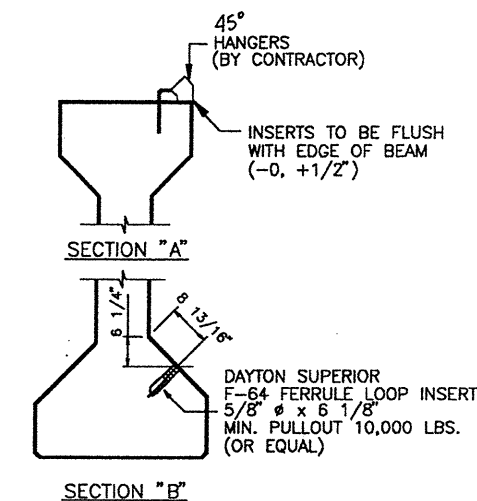
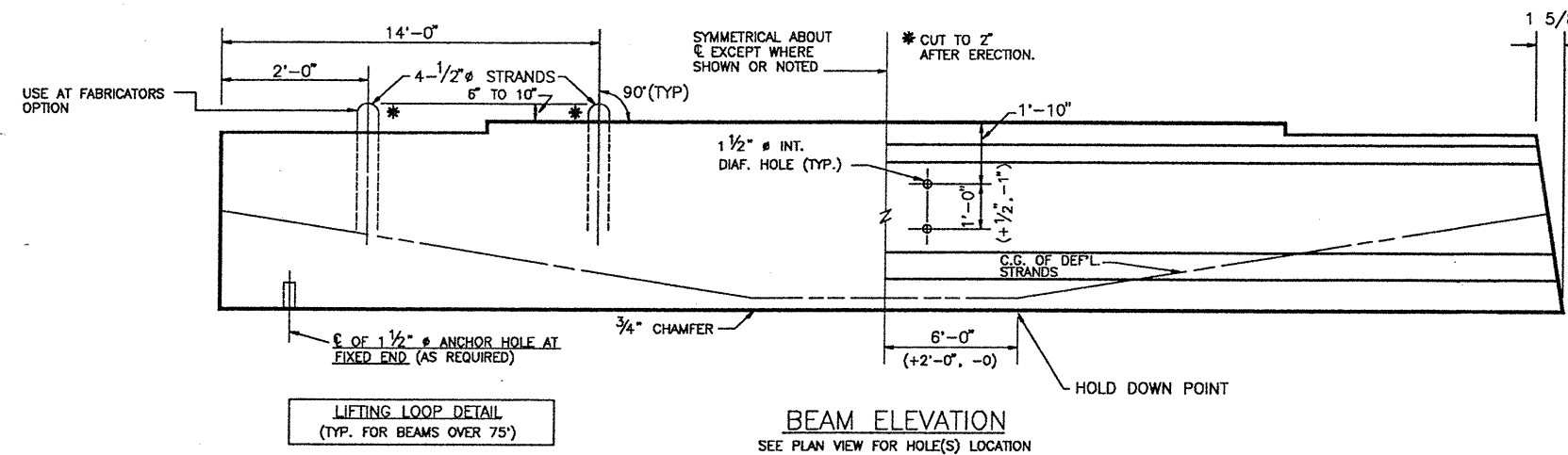
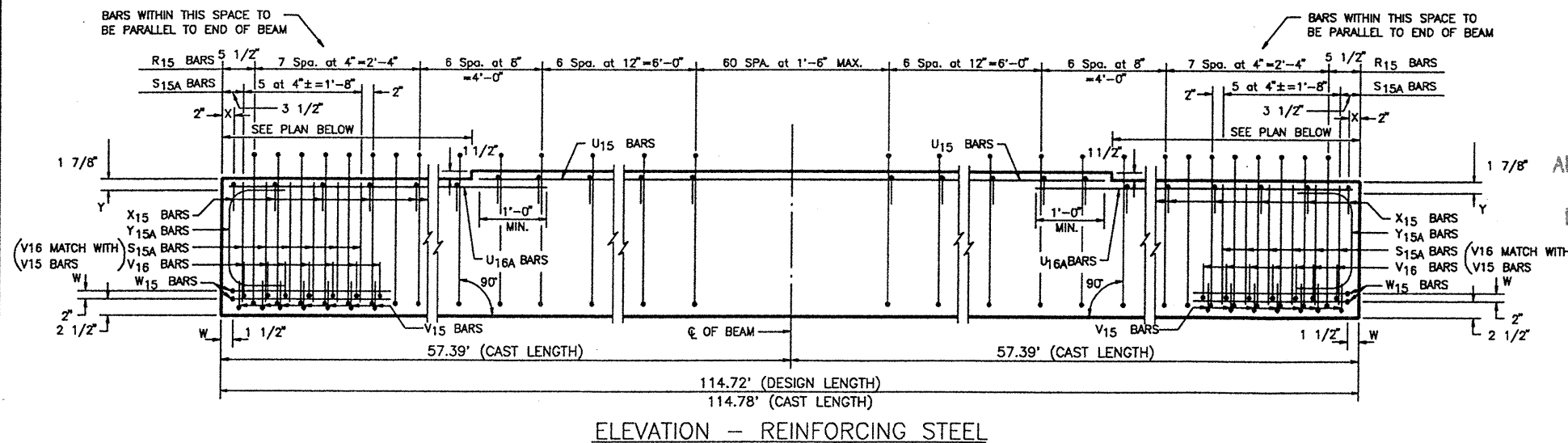
FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
15.00'	28.00'
FABRICATORS USE ONLY	

JUN 07 1996

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R ₁₅	99	99	#4	standard
X ₁₅	93	93	#3 ●	standard
Y _{15A}	4	4	#6	standard
S _{15A}	24	24	#7	standard
V ₁₅	14	14	#3	standard
W ₁₅	4	4	#5	standard
U ₁₅	2	2	#5	10'6" - 10"
U _{15A}	4	4	#5	6' - 6"
V ₁₆	28	28	#4	standard

● AT FABRICATOR'S OPTION #4




TYPE "IV" BEAM QUANTITY : 1

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS :	56 ~ 1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	44
NUMBER OF DEFLECTED STRANDS :	12 @ A - 52
CONCRETE RELEASE STRENGTH :	5901 PSI
CONCRETE DESIGN STRENGTH :	7477 PSI
ECCENTRICITY @ C :	18.89"
ECCENTRICITY @ END :	10.32"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 114.72'

TEXAS CONCRETE COMPANY

CONTRACTOR ACME BRIDGE CO., INC.					
FED. RD. DIV. NO.	STATE	PROJECT NO.			HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.			IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	

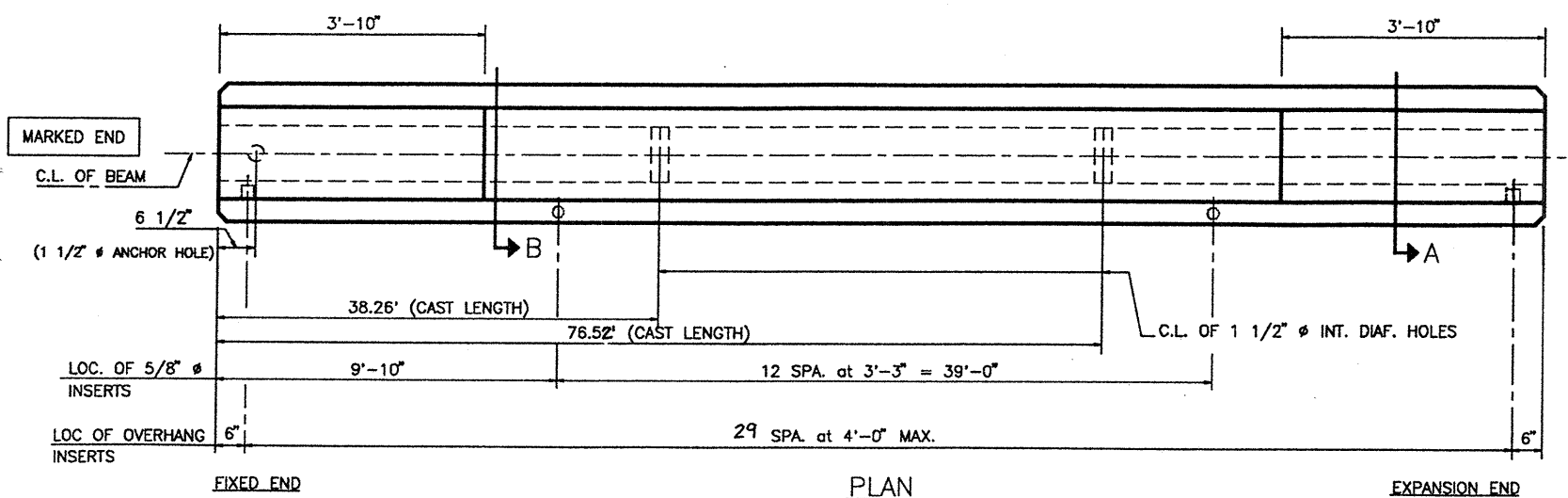
COPYRIGHT  **STRUCTURAL ENGINEERING ASSOCIATES, INC.**
1989 BY **CONSULTING ENGINEERS, SAN ANTONIO, TEXAS**

JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RT-6
SEA JOB NO. 96-074H	FABRICATION SHEET			

FOR APPROVAL
MAY 29 1936

<input checked="" type="checkbox"/> HAULING OVERHANG	
MAX. ONE END	BOTH END
15.00'	28.00'

☐ FABRICATORS USE ONLY



TEXAS DEPARTMENT OF
TRANSPORTATION

APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

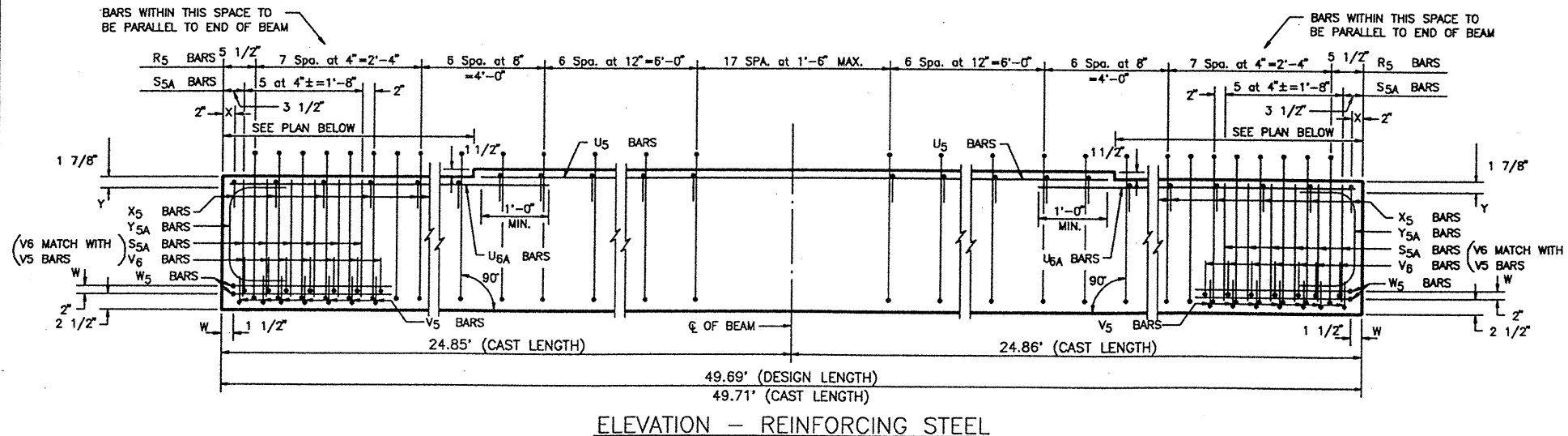
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

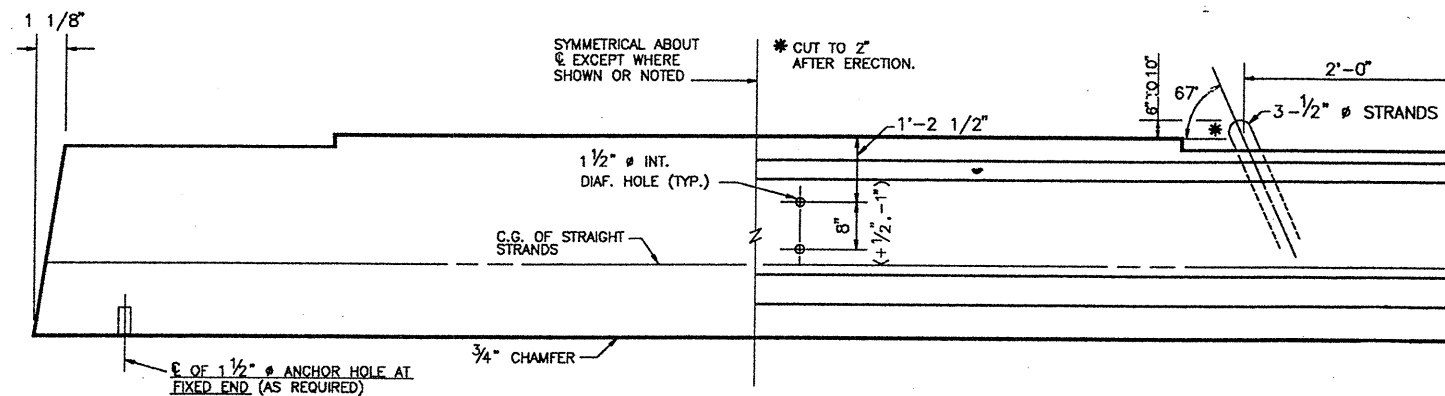
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	56	56	#4	standard
X5	50	50	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	41'-10"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4

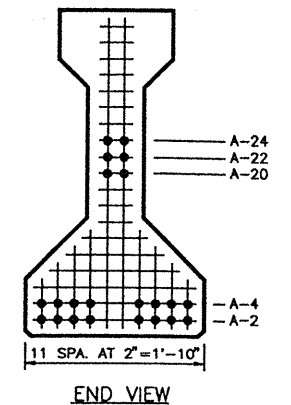
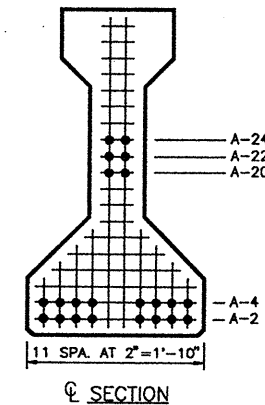
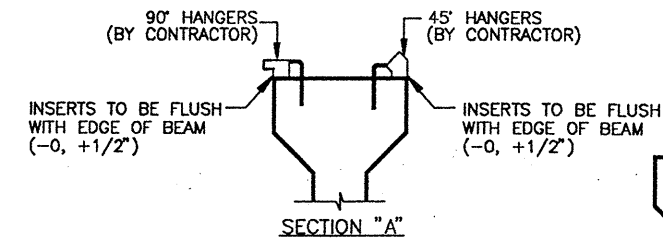


ELEVATION - REINFORCING STEEL



BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION

SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')



TYPE "C" BEAM QUANTITY : 1

LO-LAX STRAND PATTERN

NUMBER OF STRANDS :	22 ~ 1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	22
NUMBER OF DEFLECTED STRANDS :	NONE
CONCRETE RELEASE STRENGTH :	4100 PSI
CONCRETE DESIGN STRENGTH :	5000 PSI
ECCENTRICITY @ C :	8.91" ECCENTRICITY @ END : 8.91"

DESIGN NO. : O.D. #1

TOTAL BEAM LENGTH OF THIS SHEET : 49.69'

TEXAS CONCRETE COMPANY

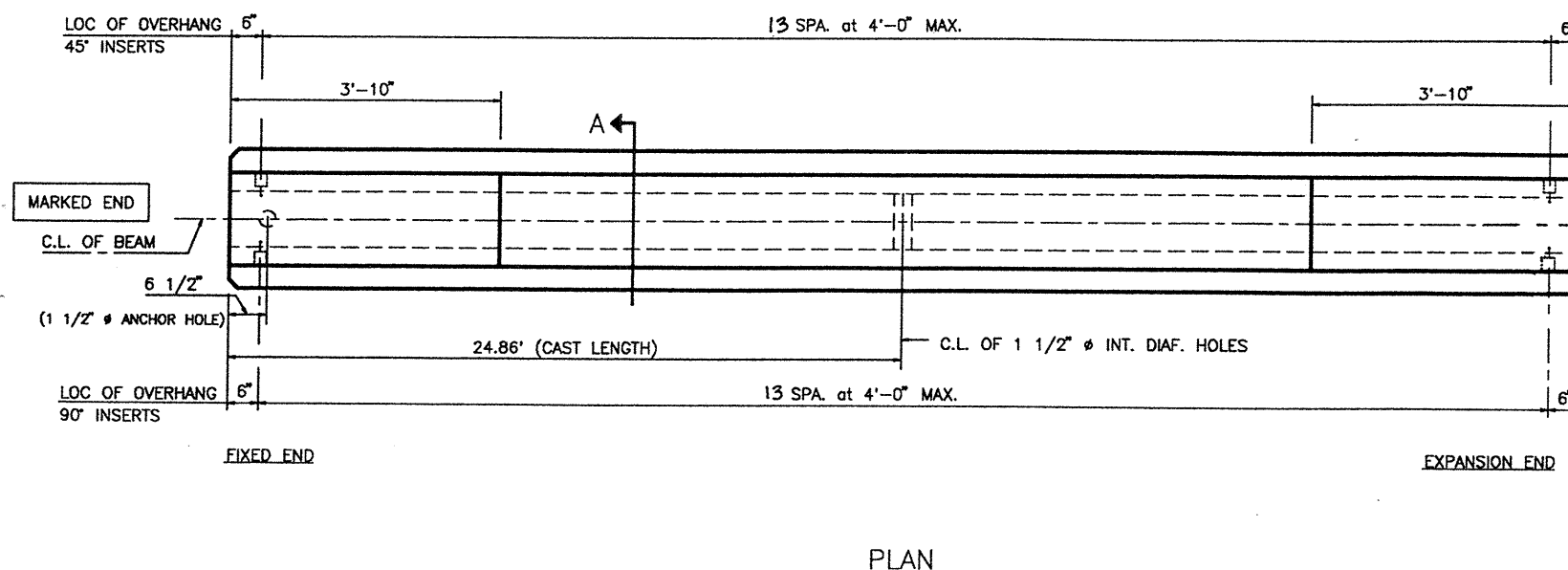
CONTRACTOR ACME BRIDGE CO., INC.			
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0016	06
JOB NO.		JOB NO.	JOB NO.
608		608	608

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JOB NO.	DRAWN	CHECKED	DATE	SHEET/MARK NO.
608	C.J.B.	D.M.P.	5-29-96	RW-1
SEA JOB NO.	FABRICATION SHEET			
96-074H				

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'
FABRICATORS USE ONLY	



PLAN

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

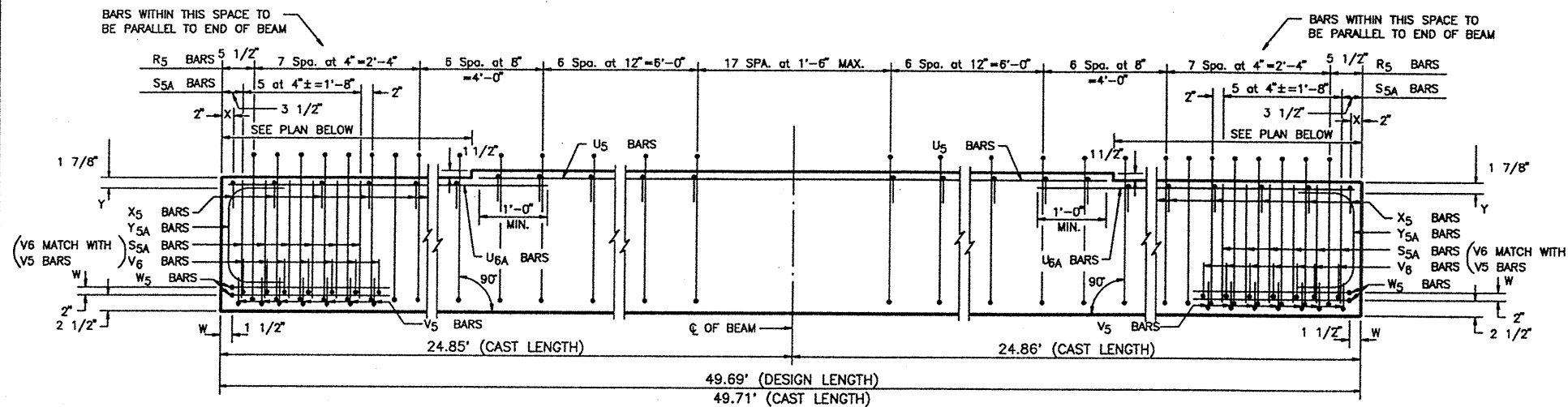
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

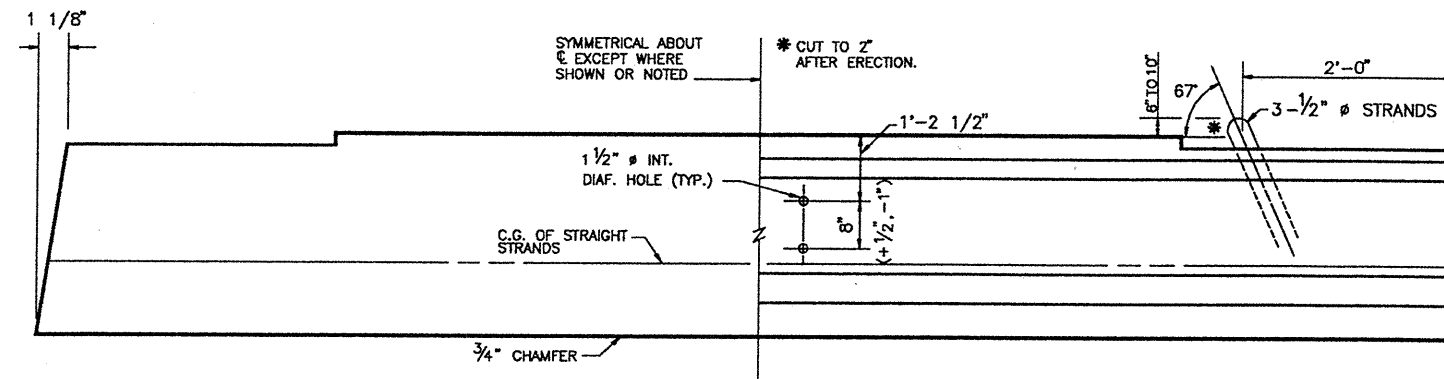
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	56	56	#4	standard
X5	50	50	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	41'-10"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4

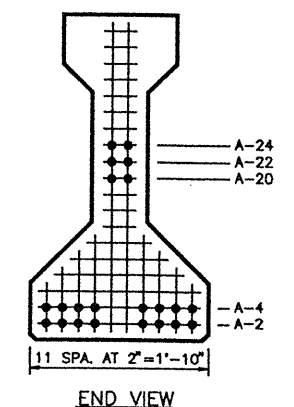
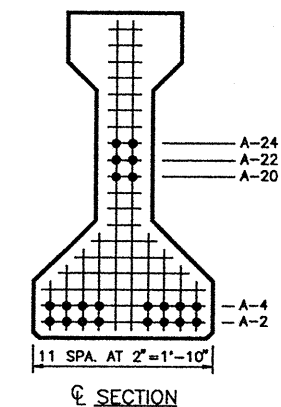
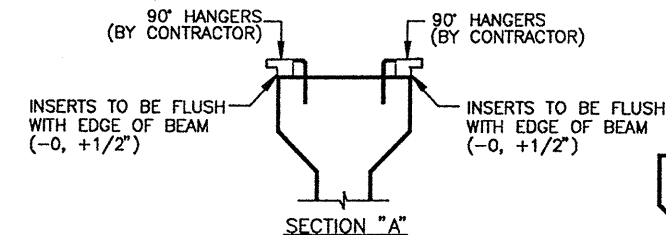


ELEVATION - REINFORCING STEEL

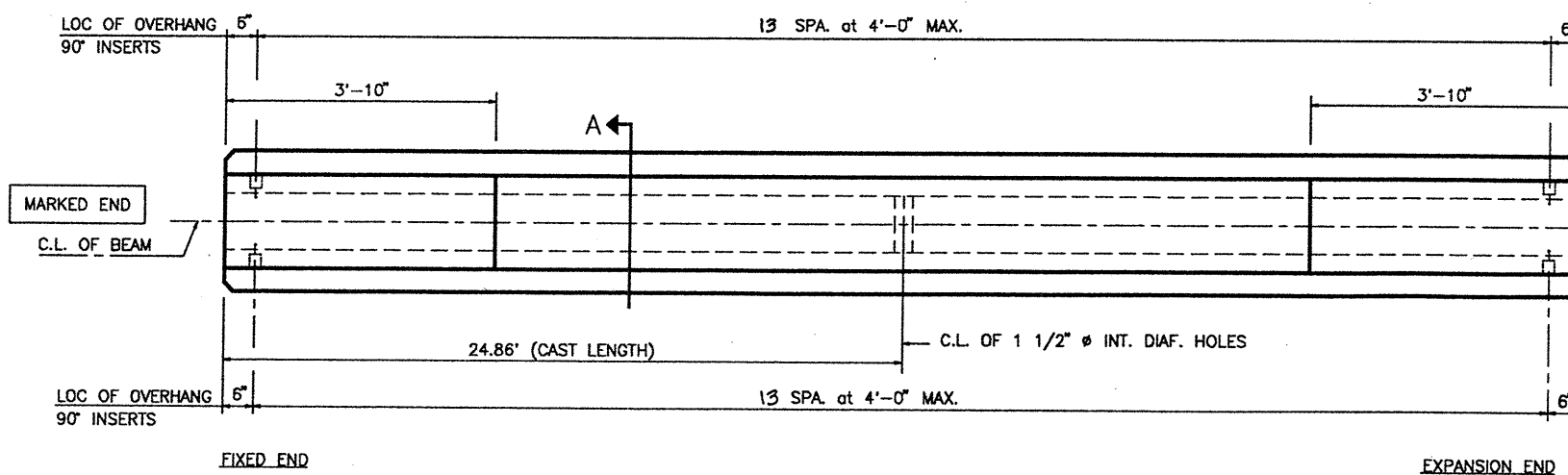


BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION

SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')



TYPE "C" BEAM QUANTITY : 1



PLAN

TOP FINISH C.I.P.
SEE STANDARD SHEET S-"C" FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'

FABRICATORS USE ONLY

LO-LAX STRAND PATTERN

NUMBER OF STRANDS :	22 ~1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	22
NUMBER OF DEFLECTED STRANDS :	NONE
CONCRETE RELEASE STRENGTH :	4100 PSI
CONCRETE DESIGN STRENGTH :	5000 PSI
ECCENTRICITY @ C :	8.91" ECCENTRICITY @ END : 8.91"

DESIGN NO. : O.D. #1

TOTAL BEAM LENGTH OF THIS SHEET : 49.69'

TEXAS CONCRETE COMPANY

CONTRACTOR ACME BRIDGE CO., INC.

FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0016	06
			033ETC

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CONSULTING ENGINEERS, SAN ANTONIO, TEXAS

JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-2
SEA JOB NO. 96-074H	FABRICATION SHEET			

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

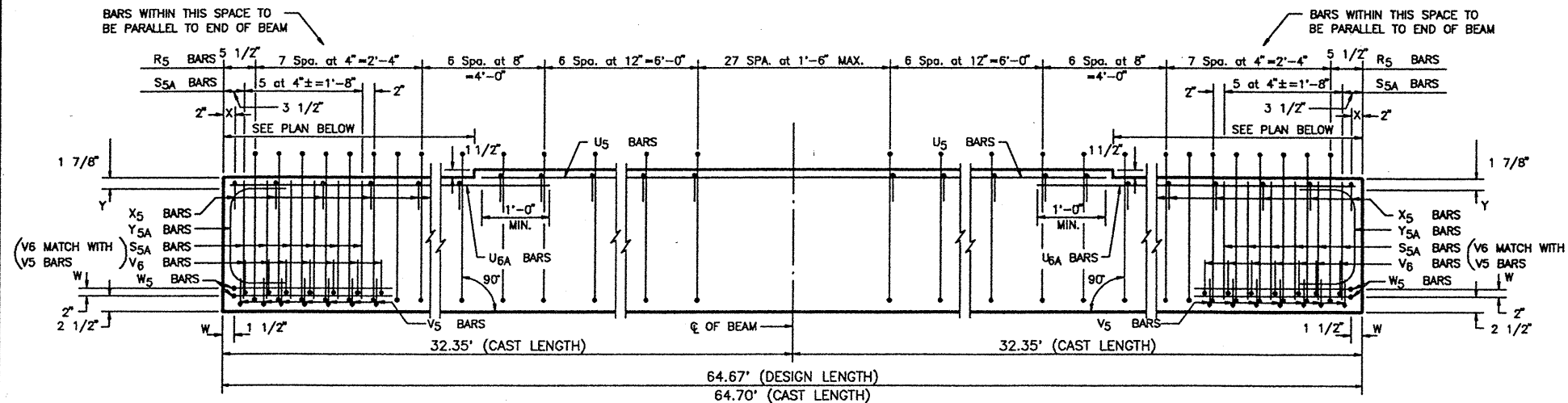
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

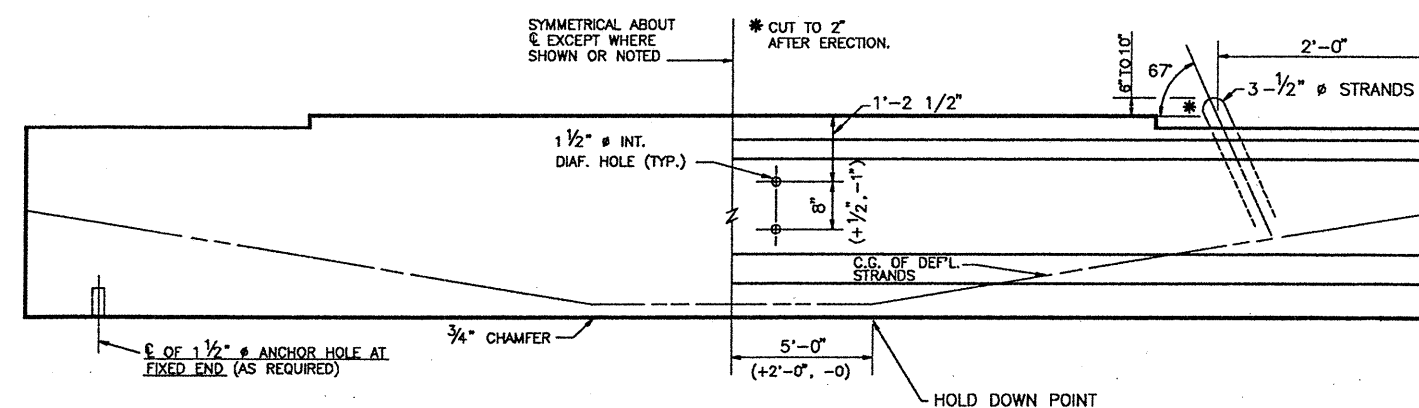
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	66	66	#4	standard
X5	60	60	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	56'-9"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4



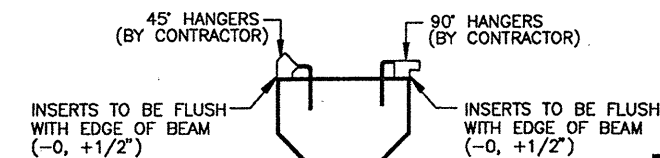
ELEVATION - REINFORCING STEEL



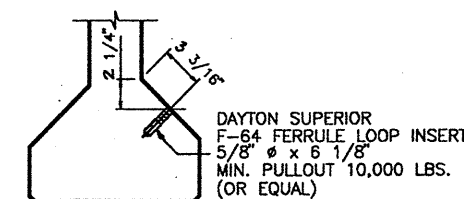
BEAM ELEVATION

SEE PLAN VIEW FOR HOLE(S) LOCATION

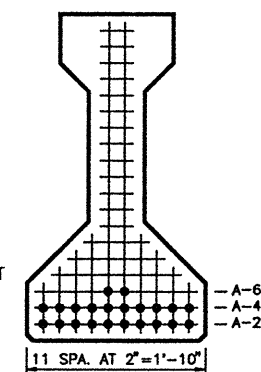
SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')



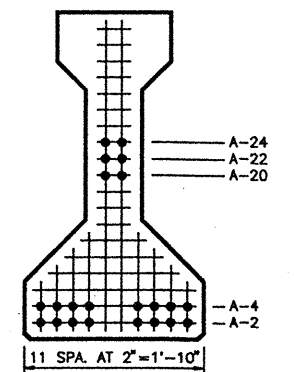
SECTION "A"



SECTION "B"

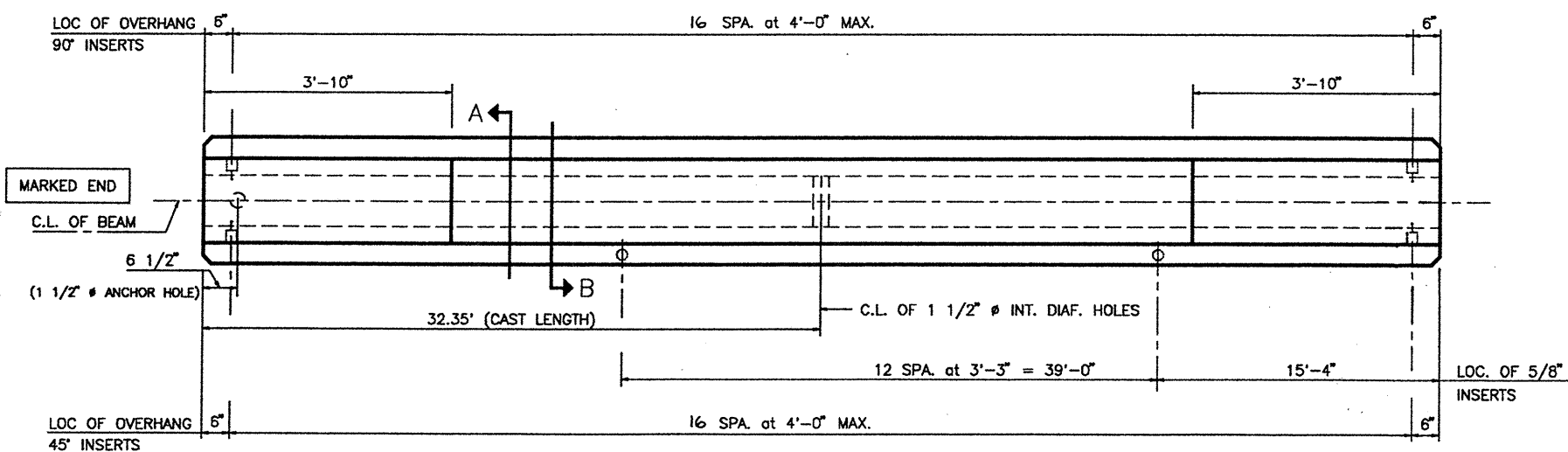


SECTION "C"



END VIEW

TYPE "C" BEAM QUANTITY : 1



PLAN

TOP FINISH C.I.P.
SEE STANDARD SHEET S-7C FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'
FABRICATORS USE ONLY	

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS : 22 ~ 1/2" # 270 K @ 31.00 K EACH	
NUMBER OF STRAIGHT STRANDS : 16	
NUMBER OF DEFLECTED STRANDS : 6 @ A - 24	
CONCRETE RELEASE STRENGTH : 4027 PSI	
CONCRETE DESIGN STRENGTH : 5000 PSI	
ECCENTRICITY @ C : 13.82" ECCENTRICITY @ END : 8.91"	

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 64.67'

TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-3
SEA JOB NO. 96-074H FABRICATION SHEET				

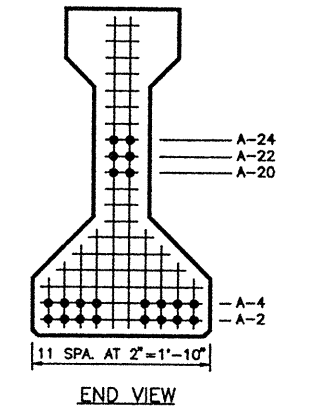
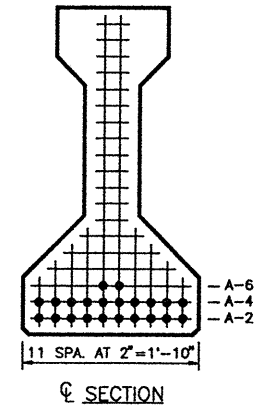
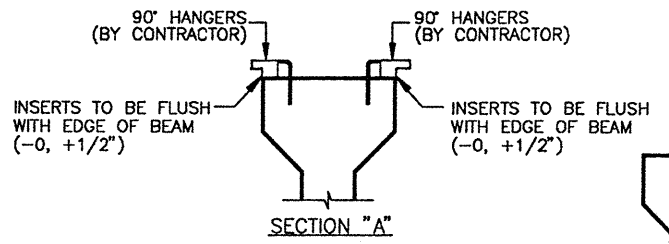
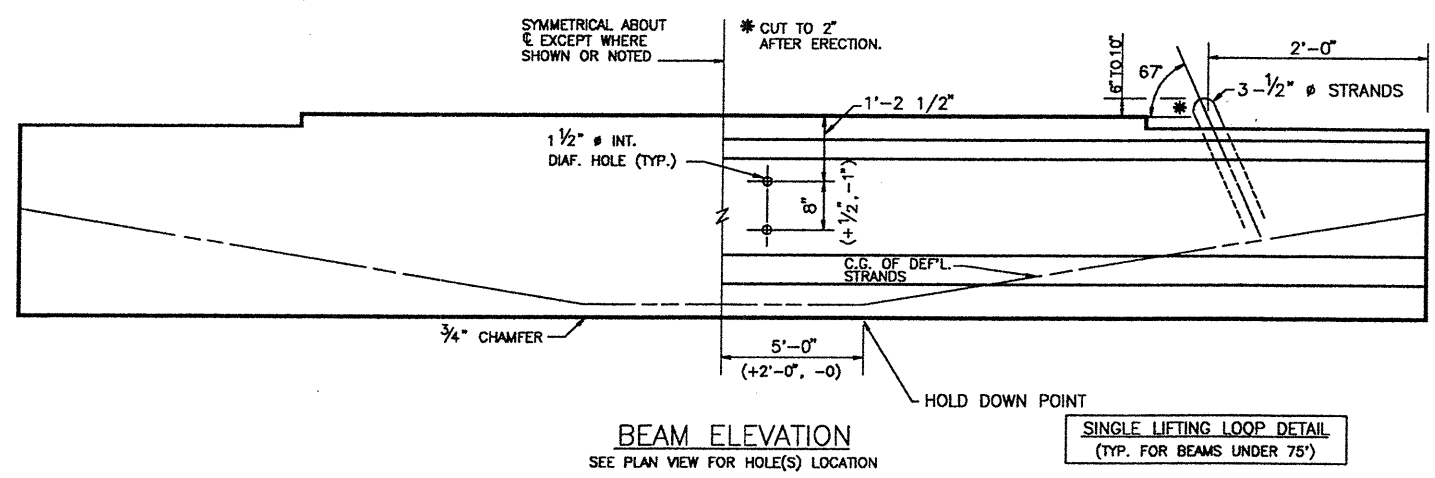
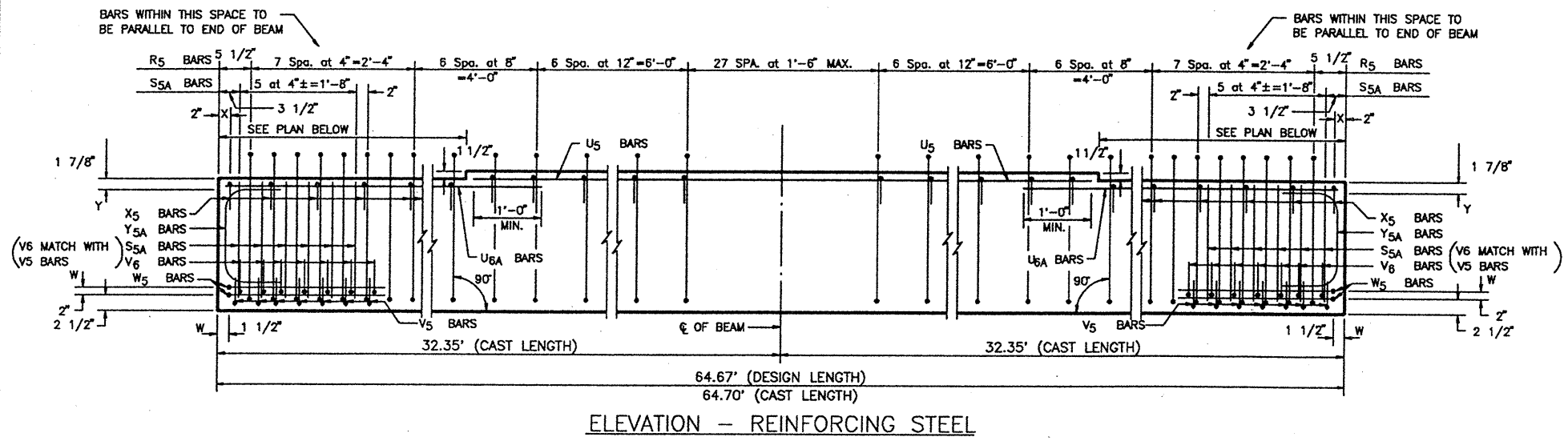
TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	66	66	#4	standard
X5	60	60	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	56'-9"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4

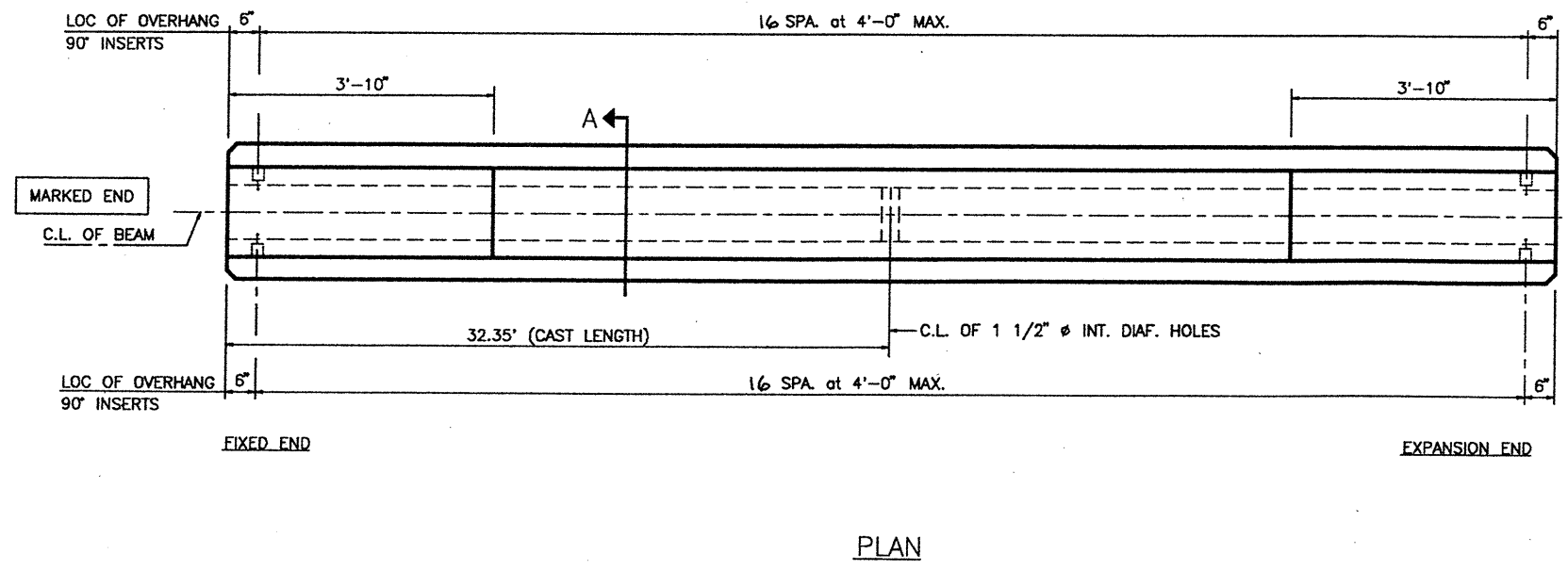


TYPE "C" BEAM QUANTITY : 1

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS :	22 ~ 1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS :	16
NUMBER OF DEFLECTED STRANDS :	6 @ A - 24
CONCRETE RELEASE STRENGTH :	4027 PSI
CONCRETE DESIGN STRENGTH :	5000 PSI
ECCENTRICITY @ C.E. :	13.82" ECCENTRICITY @ END : 8.91"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 64.67'

TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
COPYRIGHT 1989 BY SEA		STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS		
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-4
SEA JOB NO. 96-074H	FABRICATION SHEET			



TOP FINISH C.I.P.
SEE STANDARD SHEET S-1-C FOR TOP FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'
FABRICATORS USE ONLY	

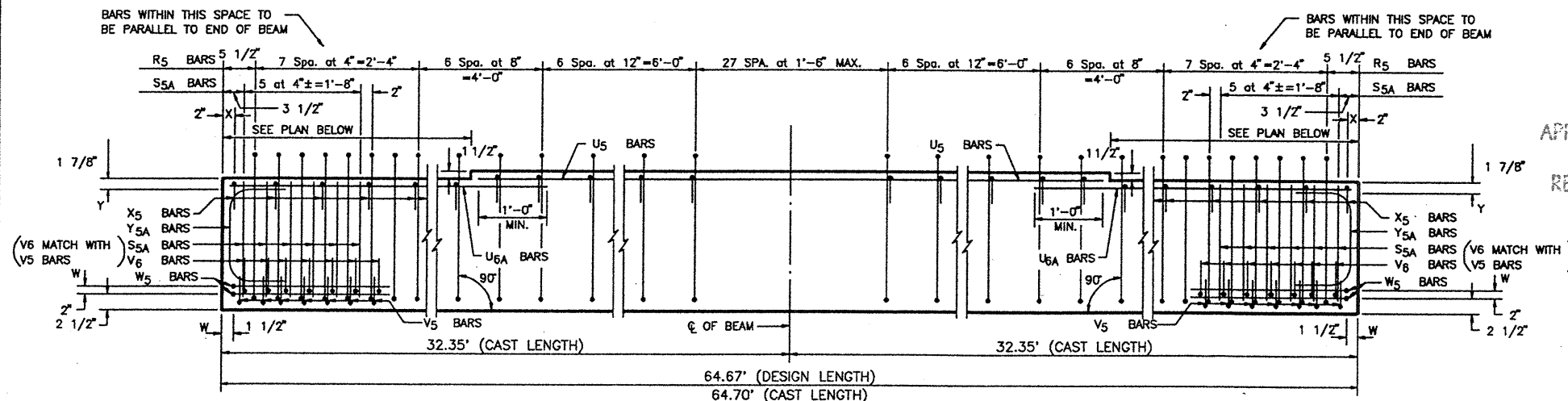
TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

JUN 07 1996

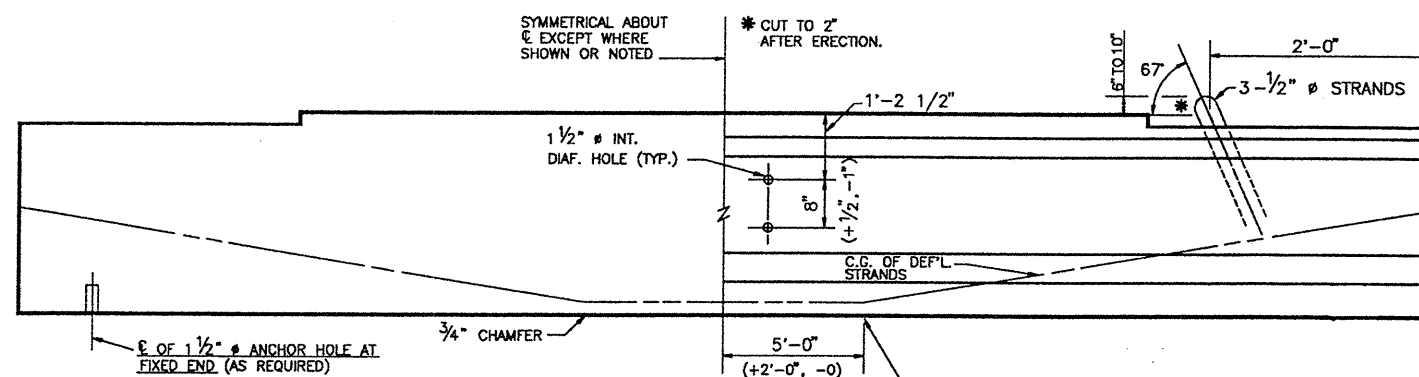
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	66	66	#4	standard
X5	60	60	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	56'-9"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4



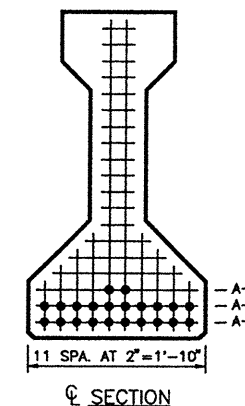
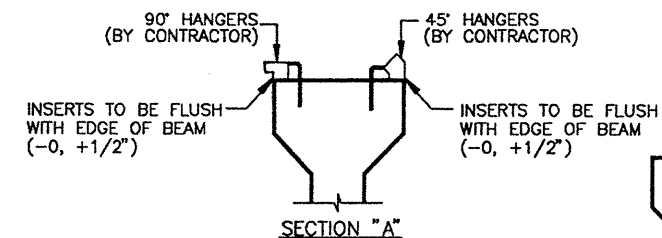
ELEVATION - REINFORCING STEEL



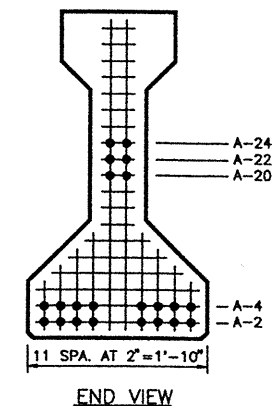
BEAM ELEVATION

SEE PLAN VIEW FOR HOLE(S) LOCATION

SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')

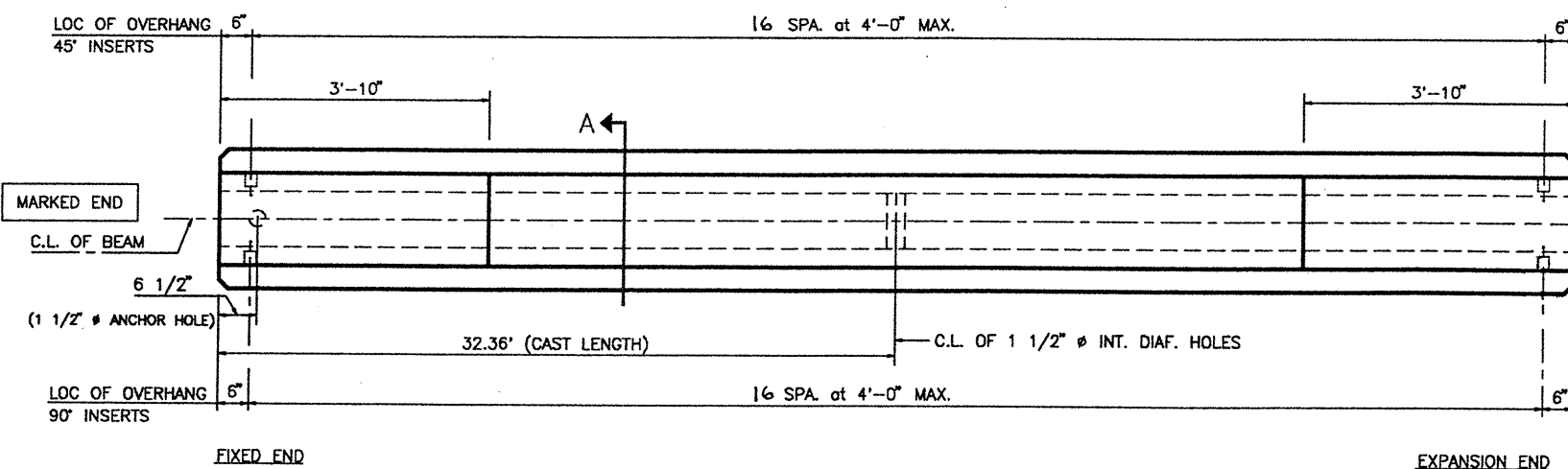


SECTION



END VIEW

TYPE "C" BEAM QUANTITY : 1



PLAN

TOP FINISH C.I.P.
SEE STANDARD SHEET S-C FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'

FABRICATORS USE ONLY

LO-LAX STRAND PATTERN			
NUMBER OF STRANDS :	22 ~1/2" Ø 270 K @ 31.00 K EACH		
NUMBER OF STRAIGHT STRANDS :	16		
NUMBER OF DEFLECTED STRANDS :	6 @ A - 24		
CONCRETE RELEASE STRENGTH :	4027 PSI		
CONCRETE DESIGN STRENGTH :	5000 PSI		
ECCENTRICITY @ C.E. :	13.82"	ECCENTRICITY @ END :	8.91"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 64.67'

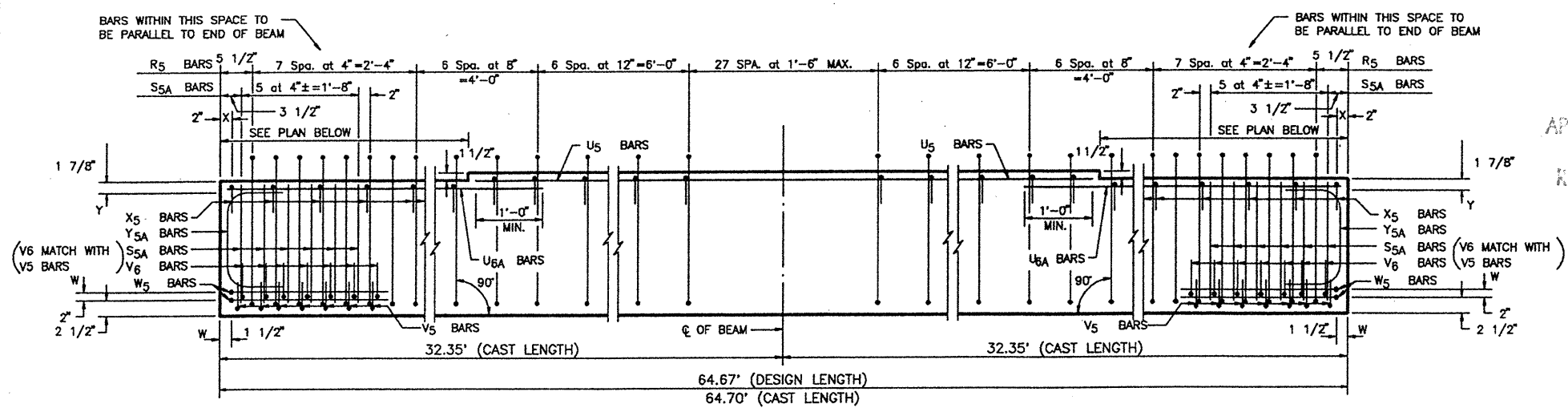
TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
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JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-5
SEA JOB NO. 96-074H	FABRICATION SHEET			

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
JUN 07 1996

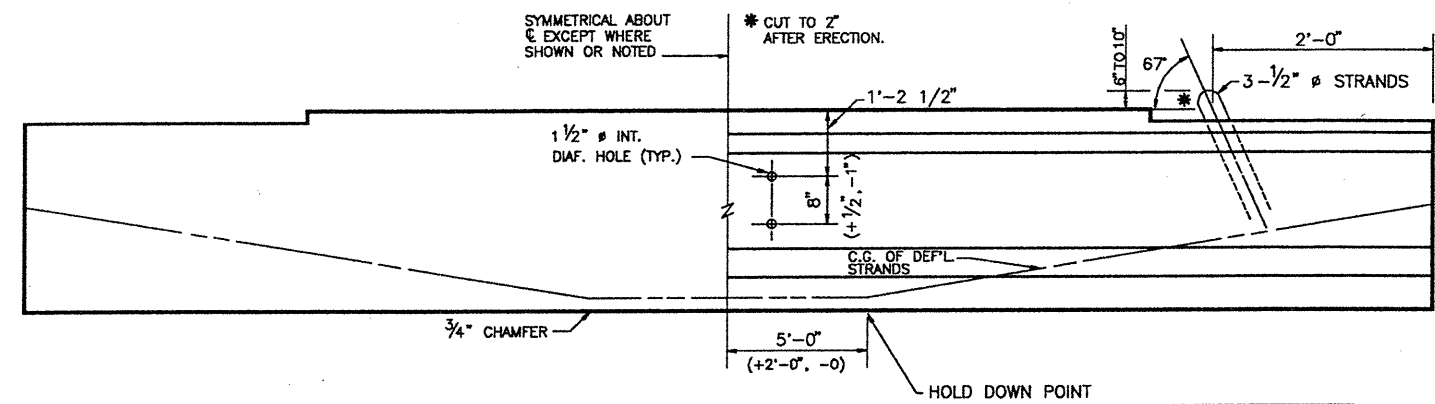
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

REINFORCING STEEL SCHEDULE				
BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	66	66	#4	standard
X5	60	60	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	56'-9"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

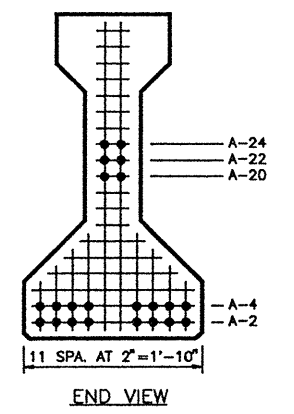
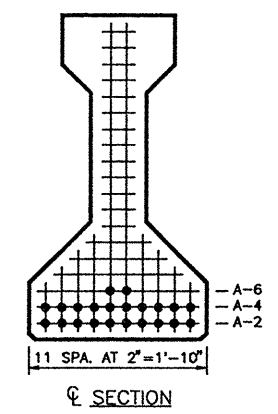
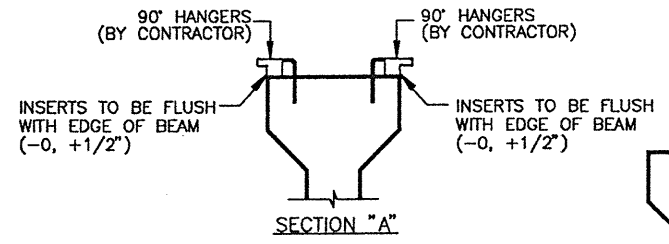
• AT FABRICATOR'S OPTION #4



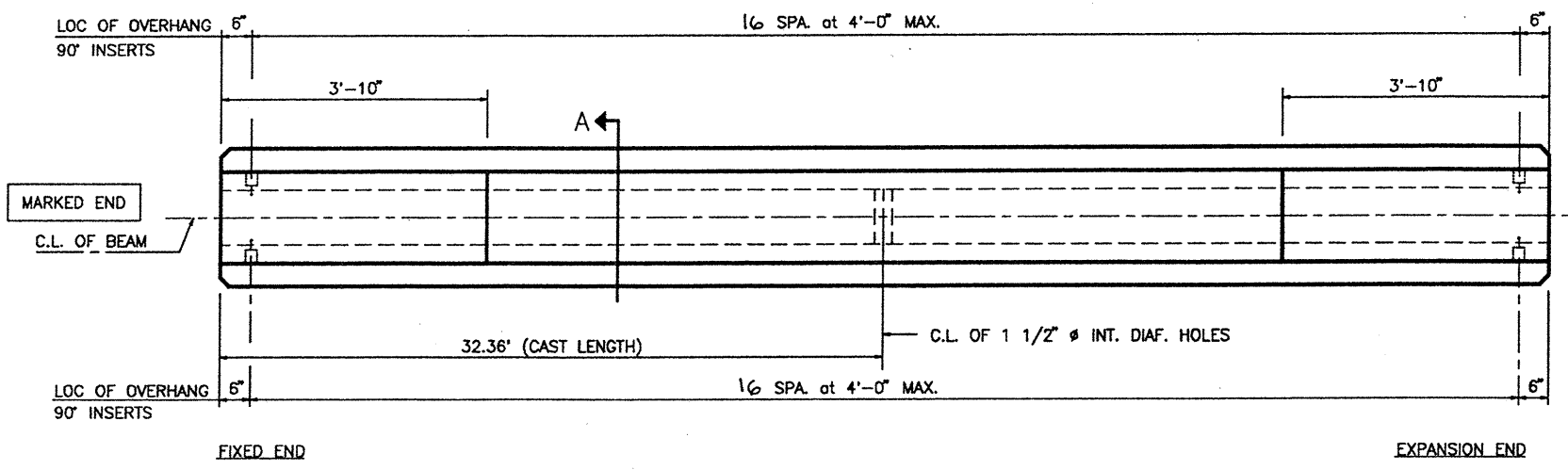
ELEVATION - REINFORCING STEEL



BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION



TYPE "C" BEAM QUANTITY : 1



PLAN


TOP FINISH C.I.P.
SEE STANDARD SHEET S-"C" FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1995

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'
FABRICATORS USE ONLY	

LO-LAX STRAND PATTERN	
NUMBER OF STRANDS	22 ~1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS	16
NUMBER OF DEFLECTED STRANDS	6 @ A - 24
CONCRETE RELEASE STRENGTH	4027 PSI
CONCRETE DESIGN STRENGTH	5000 PSI
ECCENTRICITY @ C	13.82" ECCENTRICITY @ END : 8.91"

DESIGN NO. : GP-NS-LR
TOTAL BEAM LENGTH OF THIS SHEET : 64.67'

TEXAS CONCRETE COMPANY					
CONTRACTOR ACME BRIDGE CO., INC.					
FED.RD. DIV.NO.	STATE	PROJECT NO.		HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.		IH 35	
STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	
COPYRIGHT 1989 BY		 STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS			
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-6	
SEA JOB NO. 96-074H	FABRICATION SHEET				

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

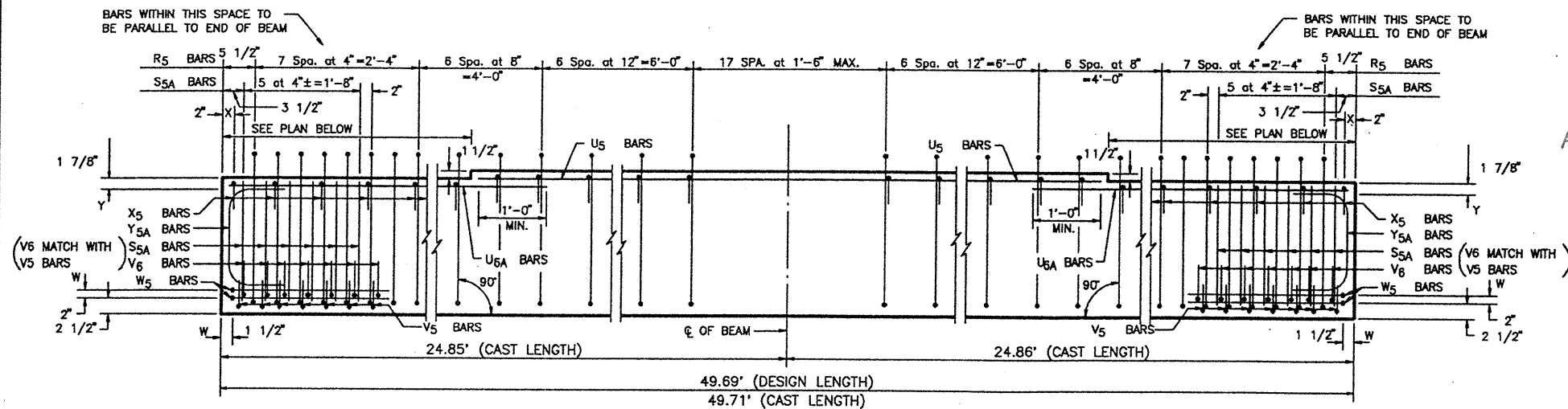
JUN 07 1996

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OF DETAIL

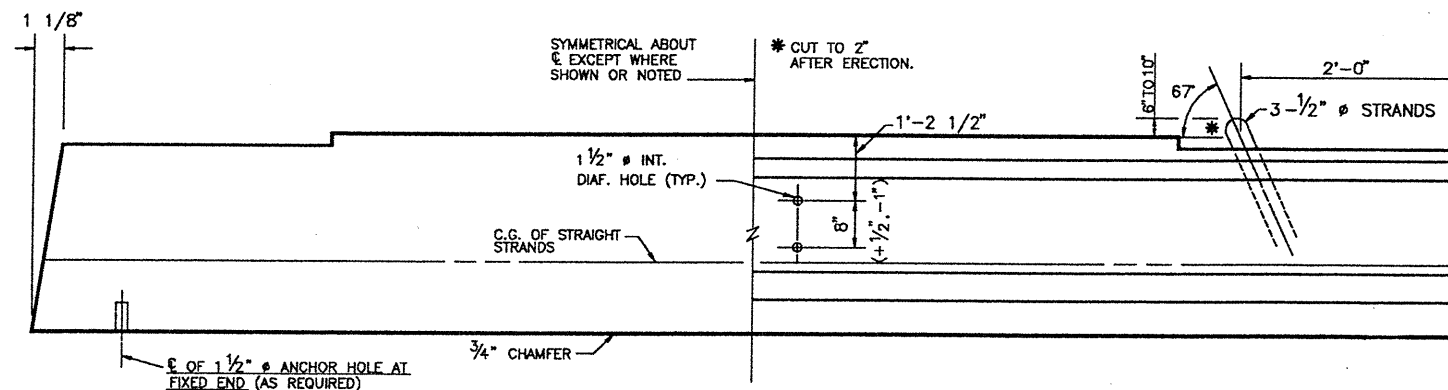
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R5	56	56	#4	standard
X5	50	50	#3	standard
Y5A	4	4	#6	standard
S5A	24	24	#5	standard
V5	14	14	#3	standard
W5	4	4	#5	standard
U5	2	2	#5	41'-10"
U6A	4	4	#5	6'-6"
V6	28	28	#4	standard

• AT FABRICATOR'S OPTION #4



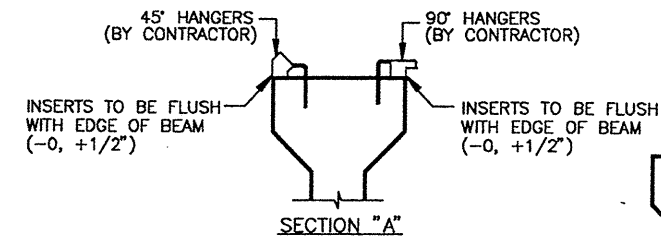
ELEVATION - REINFORCING STEEL



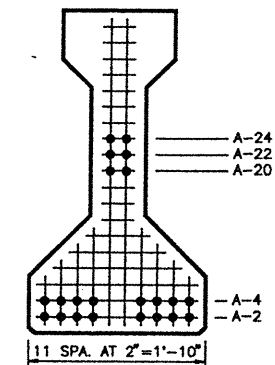
BEAM ELEVATION

SEE PLAN VIEW FOR HOLE(S) LOCATION

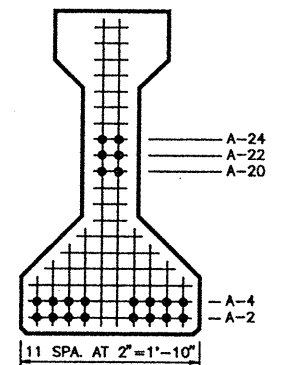
SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')



SECTION "A"

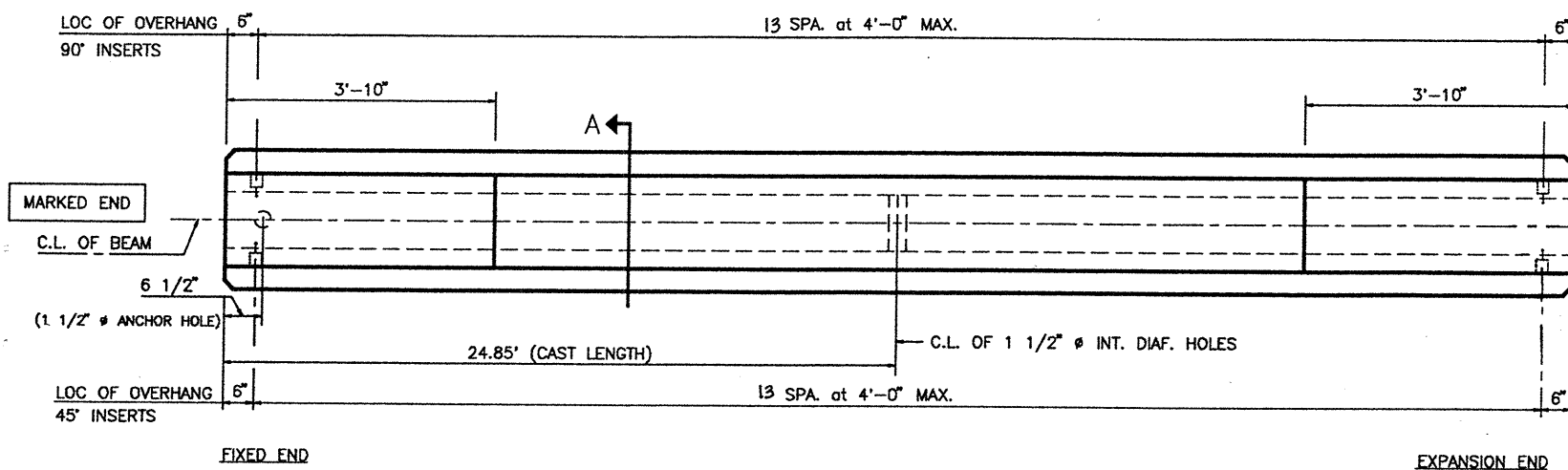


SECTION



END VIEW

TYPE "C" BEAM QUANTITY : 1



PLAN

TOP FINISH C.I.P.
SEE STANDARD SHEET S-"C" FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

HAULING OVERHANG	
MAX. ONE END	BOTH ENDS
2.00'	4.00'

FABRICATORS USE ONLY

LO-LAX STRAND PATTERN

NUMBER OF STRANDS	: 22 ~1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS	: 22
NUMBER OF DEFLECTED STRANDS	: NONE
CONCRETE RELEASE STRENGTH	: 4100 PSI
CONCRETE DESIGN STRENGTH	: 5000 PSI
ECCENTRICITY @ C	: 8.91" ECCENTRICITY @ END : 8.91"

DESIGN NO. : O.D. #1

TOTAL BEAM LENGTH OF THIS SHEET : 49.69'

TEXAS CONCRETE COMPANY

CONTRACTOR ACME BRIDGE CO., INC.

FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0016	06
			033ETC

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JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET/MARK NO. RW-7
SEA JOB NO. 96-074H	FABRICATION SHEET			

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

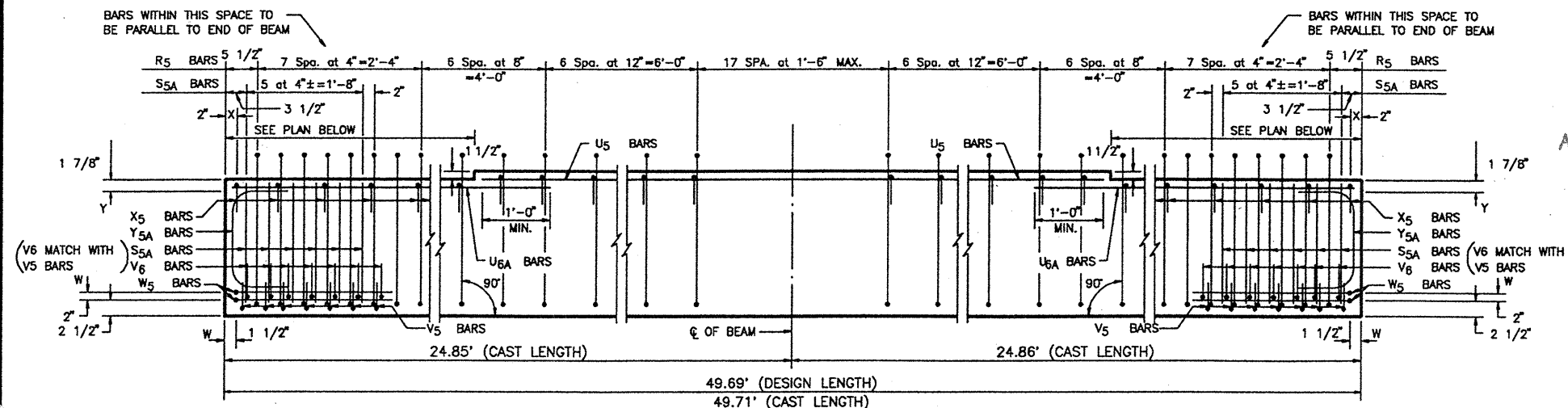
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
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RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

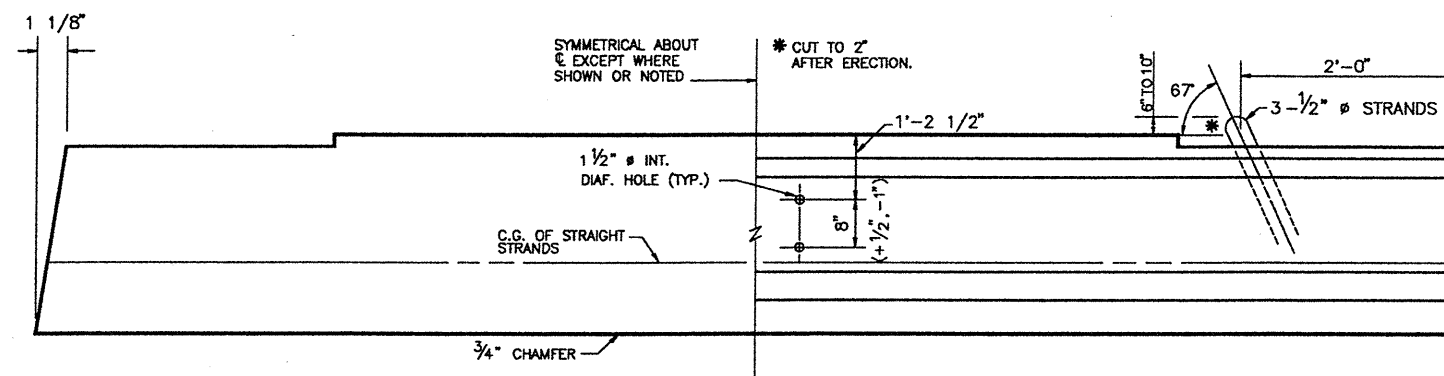
REINFORCING STEEL SCHEDULE

BAR	QUANTITY PER BEAM	TOTAL QUANTITY	SIZE	LENGTH
R ₅	56	56	#4	standard
X ₅	50	50	#3	standard
Y _{5A}	4	4	#6	standard
S _{5A}	24	24	#5	standard
V ₅	14	14	#3	standard
W ₅	4	4	#5	standard
U ₅	2	2	#5	41'-10"
U _{6A}	4	4	#5	6'-6"
V ₆	28	28	#4	standard

• AT FABRICATOR'S OPTION #4

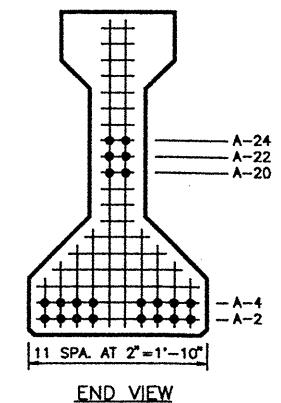
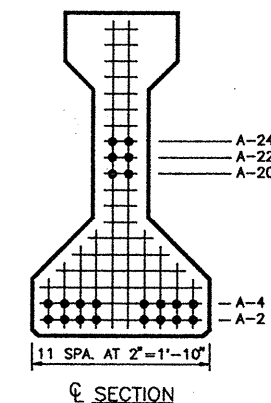
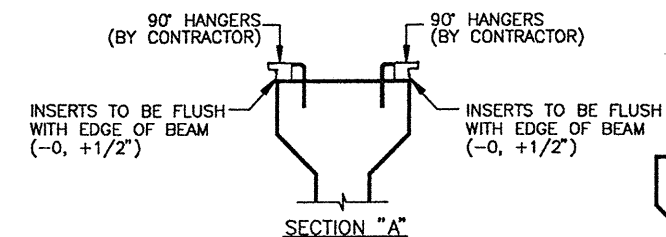


ELEVATION - REINFORCING STEEL



BEAM ELEVATION
SEE PLAN VIEW FOR HOLE(S) LOCATION

SINGLE LIFTING LOOP DETAIL
(TYP. FOR BEAMS UNDER 75')



TYPE "C" BEAM QUANTITY : 1

LO-LAX STRAND PATTERN

NUMBER OF STRANDS	: 22 ~1/2" Ø 270 K @ 31.00 K EACH
NUMBER OF STRAIGHT STRANDS	: 22
NUMBER OF DEFLECTED STRANDS	: NONE
CONCRETE RELEASE STRENGTH	: 4100 PSI
CONCRETE DESIGN STRENGTH	: 5000 PSI
ECCENTRICITY @ C	: 8.91" ECCENTRICITY @ END : 8.91"

DESIGN NO. : O.D. #1
TOTAL BEAM LENGTH OF THIS SHEET : 49.69'

TEXAS CONCRETE COMPANY

CONTRACTOR ACME BRIDGE CO., INC.

FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0016	06
JOB NO.	DRAWN	CHECKED	DATE
608	C.J.B.	D.M.P.	5-29-96

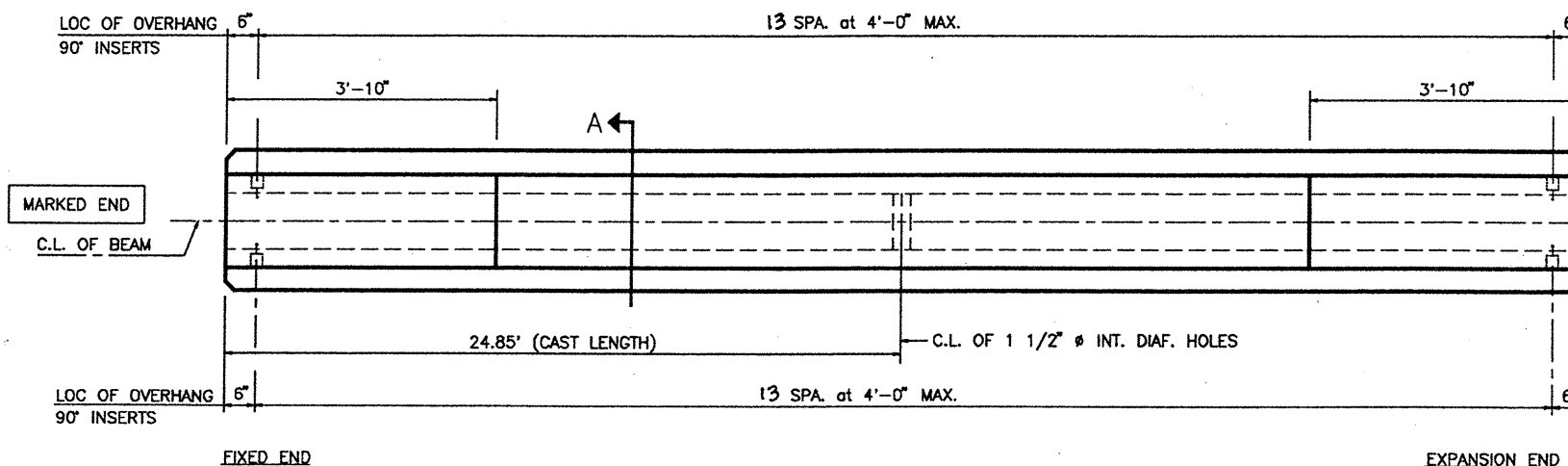
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CONSULTING ENGINEERS, SAN ANTONIO, TEXAS

JOB NO.	DRAWN	CHECKED	DATE	SHEET/MARK NO.
608	C.J.B.	D.M.P.	5-29-96	RW-8
SEA JOB NO. 96-074H	FABRICATION SHEET			

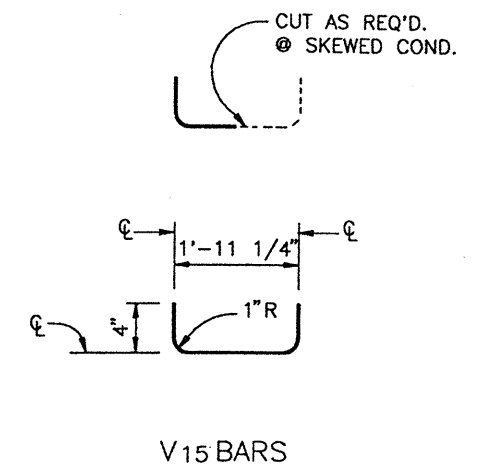
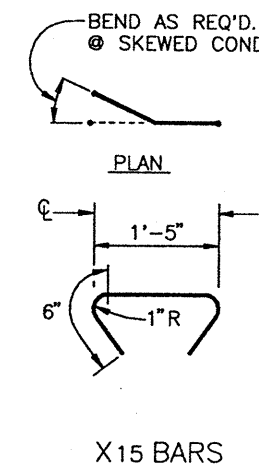
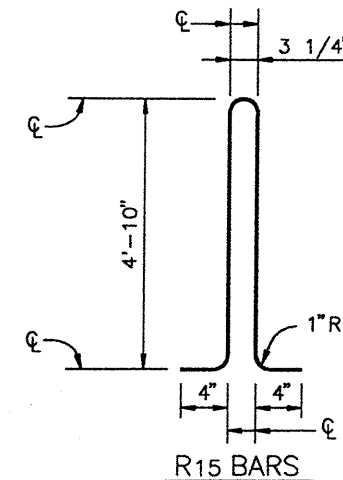
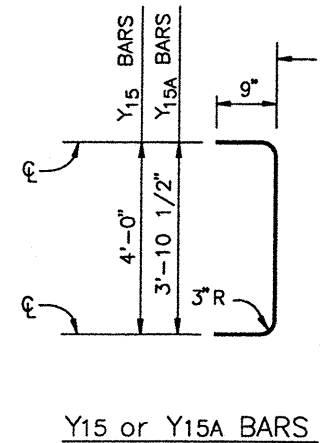
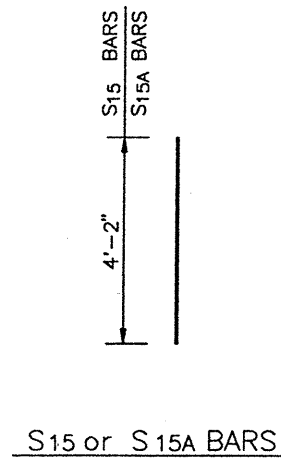
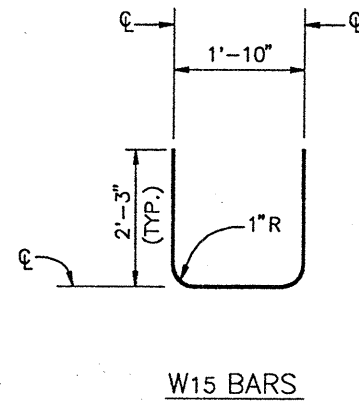
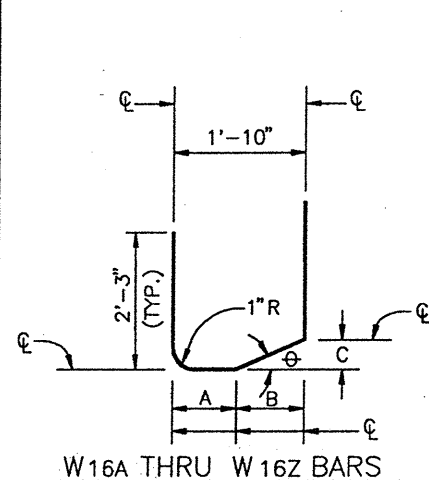
TOP FINISH C.I.P.
SEE STANDARD SHEET S-"C" FOR TOP
FINISH AND OTHER NOTES AND DETAILS.

FOR APPROVAL
MAY 29 1996

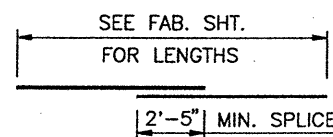
MAX. ONE END	BOTH ENDS
2.00'	4.00'
FABRICATORS USE ONLY	



PLAN

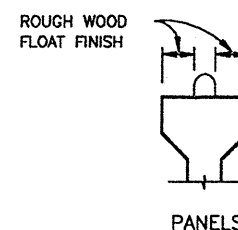
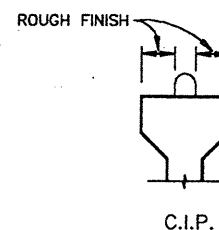
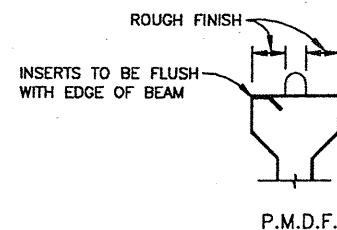


BAR	"A"	"B"	"C"	"D"
W16A	10 7/8"	11 1/8"	1 1/2"	2 1/2"
W16B	10 7/8"	11 1/8"	1"	5"
W16C	10 7/8"	11 1/8"	1 1/2"	7 1/2"
W16D	10 7/8"	11 1/8"	2"	10"
W16E	10 3/4"	11 1/4"	2 1/2"	12 1/2"
W16F	10 3/4"	11 1/4"	3"	15"
W16G	10 3/4"	11 1/4"	3 1/2"	17 1/2"
W16H	10 3/4"	11 1/4"	4 1/8"	20"
W16I	10 5/8"	11 3/8"	4 3/4"	22 1/2"
W16J	10 5/8"	11 3/8"	5 1/4"	25"
W16K	10 5/8"	11 3/8"	5 7/8"	27 1/2"
W16L	10 5/8"	11 3/8"	6 5/8"	30"
W16M	10 1/2"	11 1/2"	7 3/8"	32 1/2"
W16N	10 1/2"	11 1/2"	8"	35"
W16O	10 1/2"	11 1/2"	8 7/8"	37 1/2"
W16P	10 3/8"	11 5/8"	9 3/4"	40"
W16Q	10 3/8"	11 5/8"	10 5/8"	42 1/2"
W16R	10 3/8"	11 5/8"	11 5/8"	45"
W16S	10 1/4"	11 3/4"	1'-0 7/8"	47 1/2"
W16T	10 1/4"	11 3/4"	1'-2"	50"
W16U	10 1/4"	11 3/4"	1'-3 3/8"	52 1/2"
W16V	10 1/4"	11 3/4"	1'-4 3/4"	55"
W16W	10 1/8"	11 7/8"	1'-6 5/8"	57 1/2"
W16X	10 1/8"	11 7/8"	1'-8 5/8"	60"
W16Y	10"	1'-0"	1'-11"	62 1/2"
W16Z	10"	1'-0"	2'-1 3/4"	65"



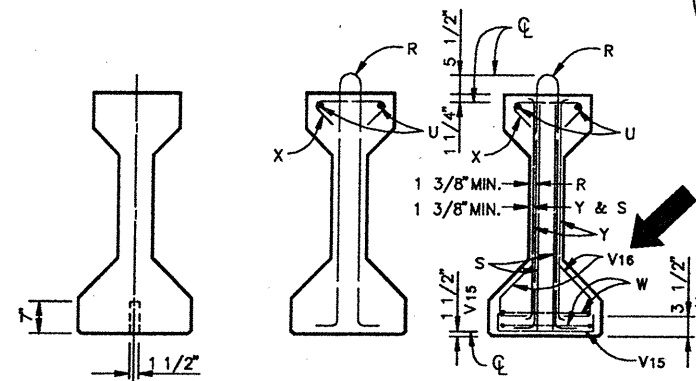
U15 BARS
U BAR SPLICES PERMITTED (40'-0" MIN. C-C SPLICES)
NO PORTION OF BAR TO BE LESS THAN 10'-0"
(LAP 2'-5" MIN.). U BAR LENGTH INDICATED IS
OVERALL LENGTH, DOES NOT INCLUDE SPLICE.

U16A, U16B, U16C, U16D, & U16E BARS
SEE FAB. SHT. FOR LENGTHS



BEAM TOP FINISH

BEAM ERECTION NOTE:
LIFTING EYE(S) MAY BE LOCATED ANYWHERE
WITHIN THE MINIMUM AND MAXIMUM DISTANCE
FROM THE END OF THE BEAM AS DETAILED.
THE USE OF ONE OR MORE LIFTING EYES WITHIN
THE AREA MAY BE USED AT FABRICATORS OPTION.



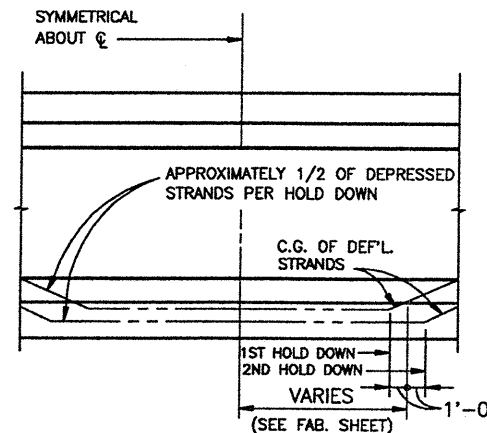
END VIEW
(* ANCHOR HOLE)

C SECTION

END VIEW

BEAM ERECTION - LIFTING LOOPS

* NOTE : ANCHOR HOLES MAY BE TAPERED (4 3/4" x 1 5/8" EXP. END) (1 5/8" Ø FIXED END)
AT BASE. IF HOLES ARE FORMED WITH SHEET METAL, FORMS MAY BE LEFT IN PLACE
HOLES AT FIXED END MAY EXTEND FULL DEPTH OF BEAM. PLUG TOP OR FILL WITH
ASPHALT MASTIC. AT FABRICATORS OPTION, ALL BEAMS MAY BE FURNISHED WITH ANCHOR
HOLES.



HOLD DOWN POINT DETAIL
(USED WHEN UPLIFT FORCE EXCEEDS BED CAPACITY)

REINFORCING STEEL NOTES:

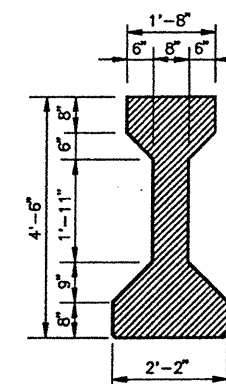
- 1.) ALL DIMENSIONS ARE CENTER TO CENTER
- 2.) ALL STEEL TO BE A.S.T.M. A-615, GR. 60
- 3.) BARS R AND S MAY BE ADJUSTED FOR SKEWED END CONDITIONS AND ADJUSTED TO CLEAR DIAFRAM HOLE.
- 4.) BARS R,S,V AND X MAY BE SUBSTITUTED WITH WWF AS SHOWN ON SHEET WWF-"IV" ALL OTHER REINFORCING BARS ARE TO BE CONVENTIONAL REINFORCING AS SHOWN.
- 5.) CONVENTIONAL REINFORCING AND WWF MAY BE USED IN ANY COMBINATION.

**TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN**

JUN 07 1996


**APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL**

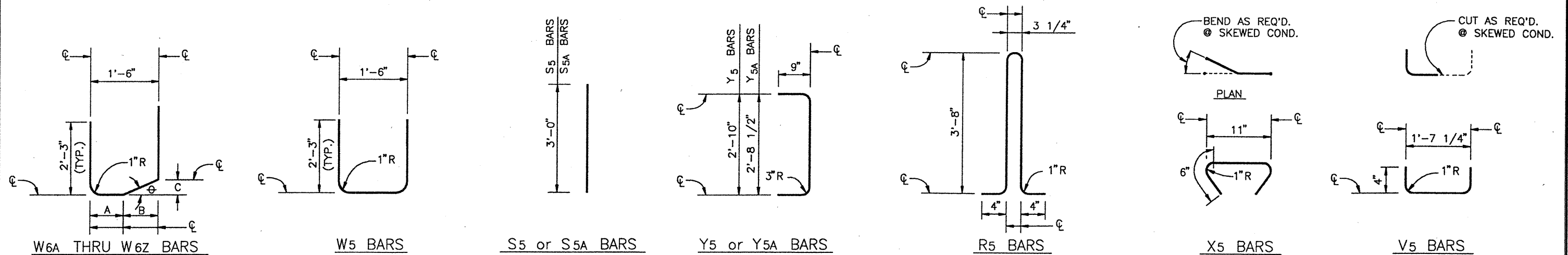
**FOR APPROVAL
MAY 29 1996**



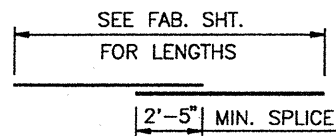
**WT./FT.: 821 LBS.
C.Y.: .20**

TYPE "IV" BEAM

TEXAS CONCRETE COMPANY					
CONTRACTOR ACME BRIDGE CO., INC.					
FED. RD. DIV. NO.	STATE	PROJECT NO.		HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.		IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	
COPYRIGHT 1989 BY		 STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS			
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5-29-96	SHEET	
SEA JOB NO. 96-074H	STANDARD SHEET			S- "IV"	

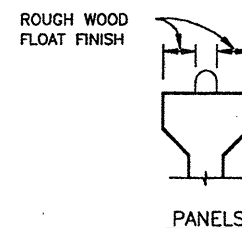
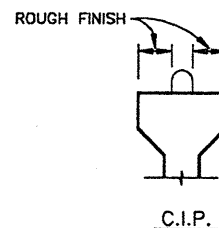
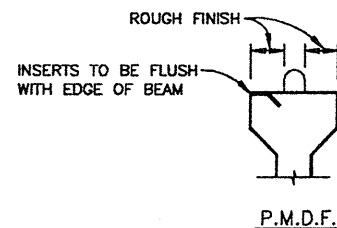


BAR	"A"	"B"	"C"	"D"
W6A	8 7/8"	9 1/8"	3/8"	2 1/2"
W6B	8 7/8"	9 1/8"	3/4"	5"
W6C	8 7/8"	9 1/8"	1 1/4"	7 1/2"
W6D	8 7/8"	9 1/8"	1 5/8"	10"
W6E	8 3/4"	9 1/4"	2"	12 1/2"
W6F	8 3/4"	9 1/4"	2 1/2"	15"
W6G	8 3/4"	9 1/4"	2 7/8"	17 1/2"
W6H	8 3/4"	9 1/4"	3 3/8"	20"
W6I	8 5/8"	9 3/8"	3 7/8"	22 1/2"
W6J	8 5/8"	9 3/8"	4 3/8"	25"
W6K	8 5/8"	9 3/8"	4 7/8"	27 1/2"
W6L	8 5/8"	9 3/8"	5 3/8"	30"
W6M	8 1/2"	9 1/2"	6"	32 1/2"
W6N	8 1/2"	9 1/2"	6 5/8"	35"
W6O	8 1/2"	9 1/2"	7 1/4"	37 1/2"
W6P	8 3/8"	9 5/8"	8 1/8"	40"
W6Q	8 3/8"	9 5/8"	8 7/8"	42 1/2"
W6R	8 3/8"	9 5/8"	9 5/8"	45"
W6S	8 1/4"	9 3/4"	10 5/8"	47 1/2"
W6T	8 1/4"	9 3/4"	11 5/8"	50"
W6U	8 1/4"	9 3/4"	1'-0 3/4"	52 1/2"
W6V	8 1/4"	9 3/4"	1'-1 7/8"	55"
W6W	8 1/8"	9 7/8"	1'-3 1/2"	57 1/2"
W6X	8 1/8"	9 7/8"	1'-5 1/8"	60"
W6Y	8"	10"	1'-7 1/4"	62 1/2"
W6Z	8"	10"	1'-9 1/2"	65"



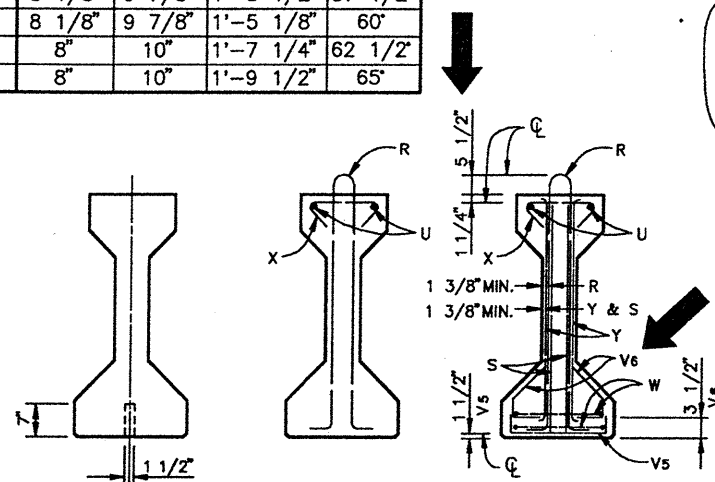
U5 BARS

U BAR SPLICES PERMITTED (40'-0" MIN. C-C SPLICES)
NO PORTION OF BAR TO BE LESS THAN 10'-0"
(LAP 2'-5" MIN.). U BAR LENGTH INDICATED IS
OVERALL LENGTH, DOES NOT INCLUDE SPLICE.

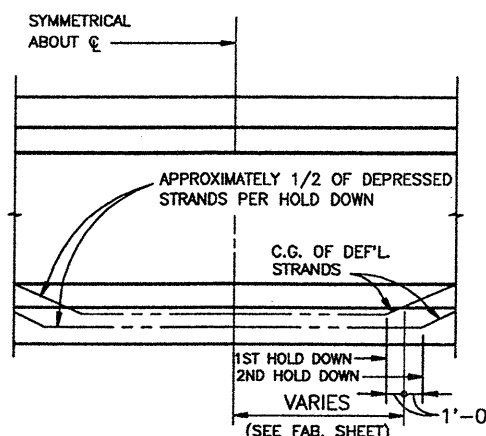


BEAM TOP FINISH

BEAM ERECTION NOTE:
LIFTING EYE(S) MAY BE LOCATED ANYWHERE
WITHIN THE MINIMUM AND MAXIMUM DISTANCE
FROM THE END OF THE BEAM AS DETAILED.
THE USE OF ONE OR MORE LIFTING EYES WITHIN
THE AREA MAY BE USED AT FABRICATORS OPTION.



BEAM ERECTION - LIFTING LOOPS



HOLD DOWN POINT DETAIL

(USED WHEN UPLIFT FORCE EXCEEDS BED CAPACITY)

GENERAL NOTES

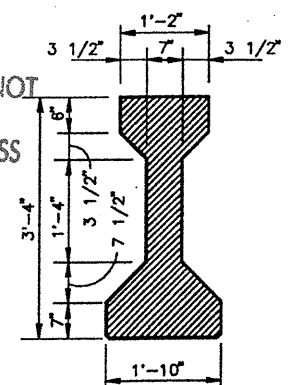
- SPACING OF BARS R AND S MAY BE VARIED TO AVOID DIAFRAM HOLES.
- REINFORCING BARS AND/OR STRANDS MAY COME IN CONTACT WITH MATERIALS USED IN FORMING DIAFRAM HOLES.
- DIMENSIONS RELATING TO BARS OR STRANDS ARE CENTER TO CENTER.
- BARS V AND X MAY BE TILTED THUS OR SKEWED AS REQUIRED TO MAINTAIN 1" MIN. CONCRETE COVER.
- STRANDS MAY BE SPREAD TO MISS DIAFRAM HOLES.
- STRANDS MAY BE RECESSED 1/2" MAX. INTO END OF BEAM.
- BEAM ENDS MAY BE FORMED WITH WOOD.
- BOTTOM CORNERS OF ALL BEAM FLANGES AND OUTSIDE CORNERS OF EXTERIOR BEAM ENDS SHALL BE CHAMFERED OR ROUNDED TO A 3/4" RADIUS. AT FABRICATORS OPTION, ALL VERTICAL EDGES ON ALL BEAMS MAY BE CHAMFERED.
- BEAM MARKS TO BE PLACED ON FIXED END OR AS NOTED.
- ALL DIMENSIONS MEASURED ALONG BOTTOM OF BEAM AT C UNLESS NOTED OTHERWISE.
- USE CLASS H OR HH CONCRETE.

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
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RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

FOR APPROVAL
MAY 29 1996



WT./FT.: 516 LBS.
C.Y.: .13

REINFORCING STEEL NOTES:

- ALL DIMENSIONS ARE CENTER TO CENTER
- ALL STEEL TO BE A.S.T.M. A-615, GR. 60
- BARS R AND S MAY BE ADJUSTED FOR SKEWED END CONDITIONS AND ADJUSTED TO CLEAR DIAFRAM HOLE.
- BARS R,S,V AND X MAY BE SUBSTITUTED WITH WWF AS SHOWN ON SHEET WWF-"V" ALL OTHER REINFORCING BARS ARE TO BE CONVENTIONAL REINFORCING AS SHOWN.
- CONVENTIONAL REINFORCING AND WWF MAY BE USED IN ANY COMBINATION.

TYPE "C" BEAM

TEXAS CONCRETE COMPANY

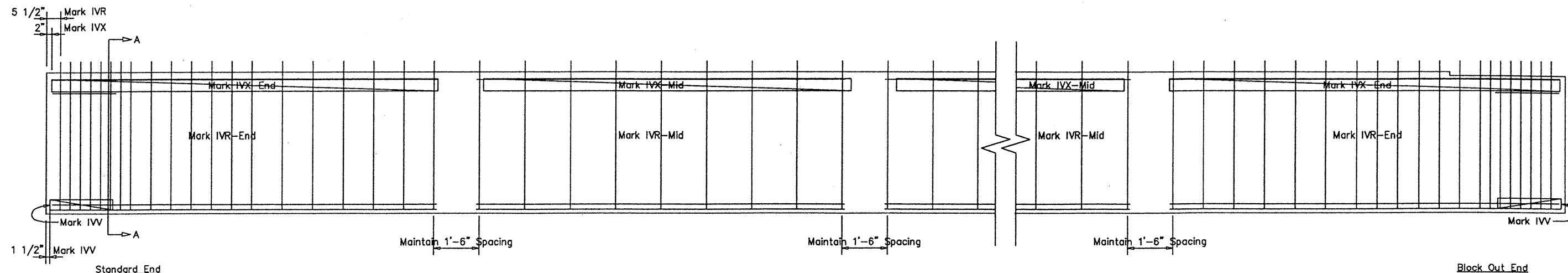
CONTRACTOR ACME BRIDGE CO., INC.

FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.
6	TEXAS	NH 96(3) IM, ETC.	IH 35
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
15	GUADALUPE, ETC.	0016	06
			033ETC

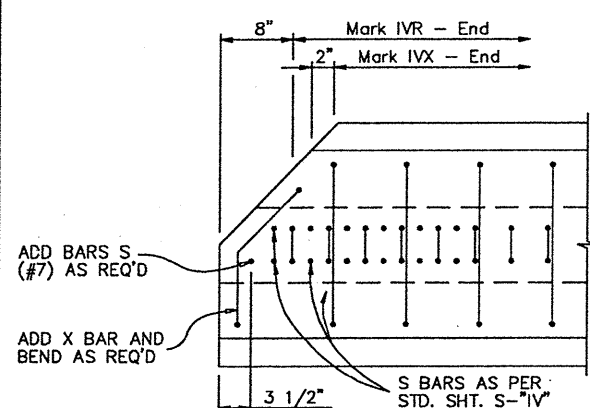
COPYRIGHT 1989 BY SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS

JOB NO.	DRAWN	CHECKED	DATE	SHEET
608	C.J.B.	D.M.P.	5-29-96	S-"C"
SEA JOB NO. 96-074H				STANDARD SHEET

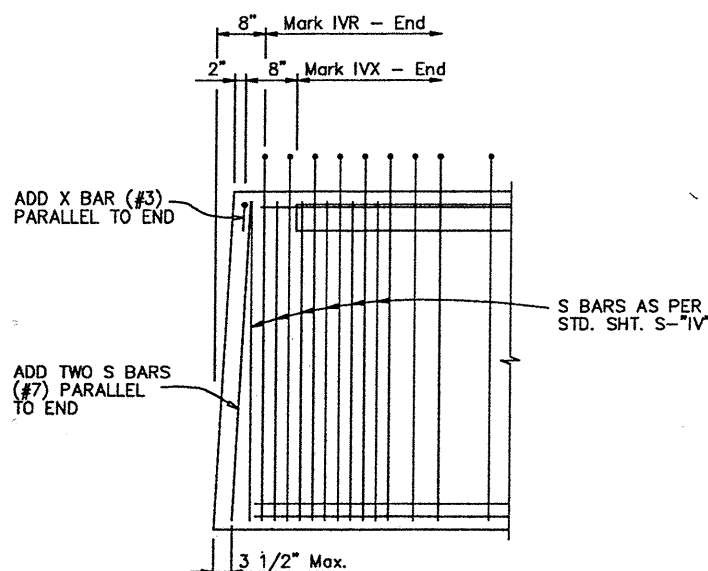
* NOTE: ANCHOR HOLES MAY BE TAPERED (4 3/4" x 1 5/8" EXP. END) (1 5/8" @ FIXED END) AT BASE. IF HOLES ARE FORMED WITH SHEET METAL, FORMS MAY BE LEFT IN PLACE. HOLES AT FIXED END MAY EXTEND FULL DEPTH OF BEAM. PLUG TOP OR FILL WITH ASPHALT MASTIC. AT FABRICATORS OPTION, ALL BEAMS MAY BE FURNISHED WITH ANCHOR HOLES.



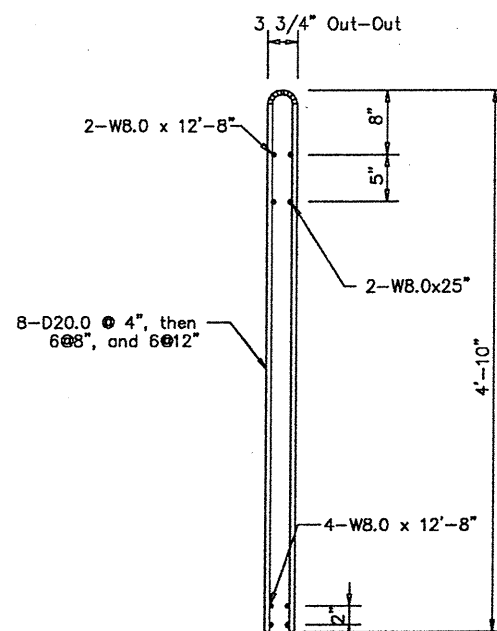
Note: Squared End Condition shown. See details below for battered or skewed conditions.



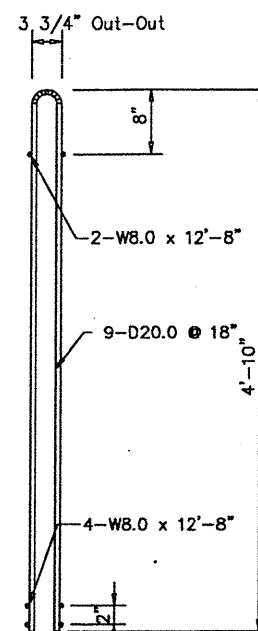
Plan @ Skewed End Condition



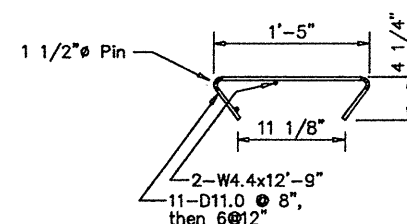
Elevation @ Battered End Condition



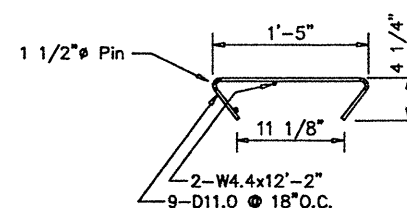
Mark IVR-End



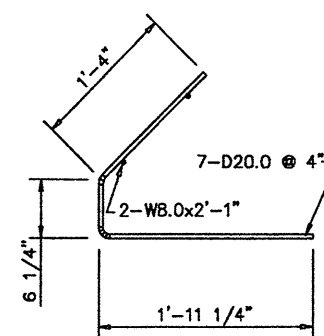
Mark IVR-Mid



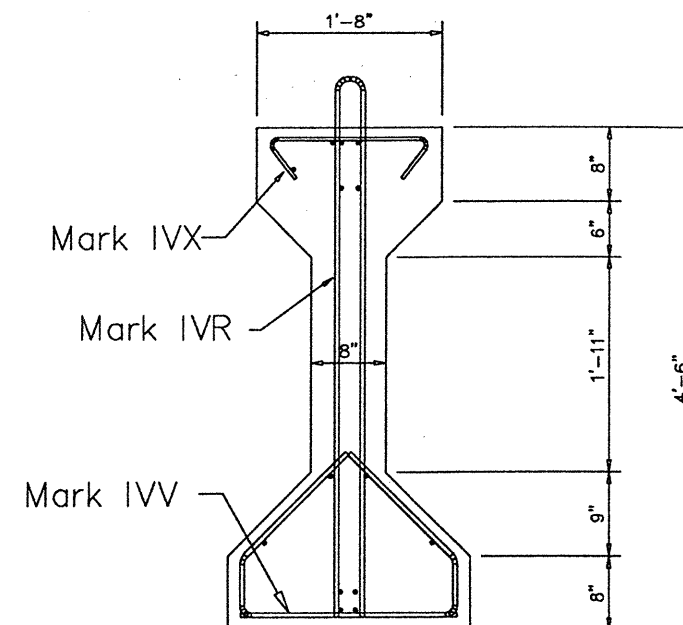
Mark IVX-End



Mark IVX-Mid



Mark IVV



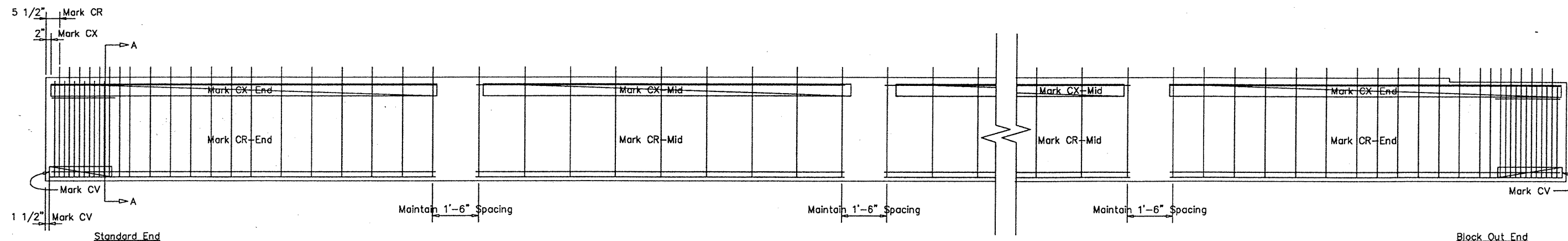
TEXAS DEPARTMENT OF TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN
FOR APPROVAL Section A-A
MAY 29 1996
JUN 07 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

General Notes - Welded Wire Fabric

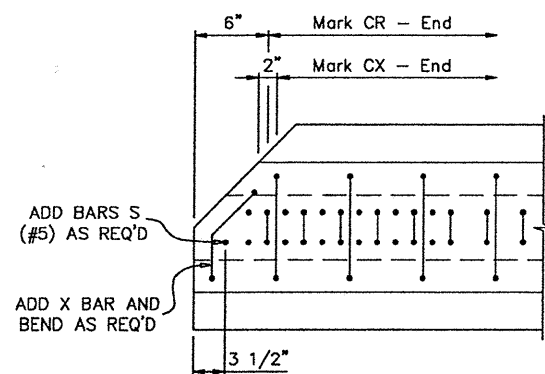
1. Dimensions relating to welded wire fabric are center to center of wires unless noted otherwise.
2. Tying of welded wire fabric assembly will be sufficient to provide rigid cage only. Tying of all strand and wire intersections not required.
3. Longitudinal splice is not required for welded wire fabric. Do not exceed typical spacing of transverse wires.
4. Welded wire fabric conforms to ASTM A 185 or A 497, Grade 60.
5. The WWF shown may be used in lieu of the conventional reinforcing Bars R, V and X. For other reinforcing details, see sht. S-"IV".

TEXAS CONCRETE COMPANY				
CONTRACTOR ACME BRIDGE CO., INC.				
FED. RD. DIV. NO.	STATE	PROJECT NO.	HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.	IH 35	
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
15	GUADALUPE, ETC.	0016	06	033ETC
SEA STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS				
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5/29/96	SHEET WWF-"IV"
SEA JOB NO. 96-074H		WWF ALTERNATE		

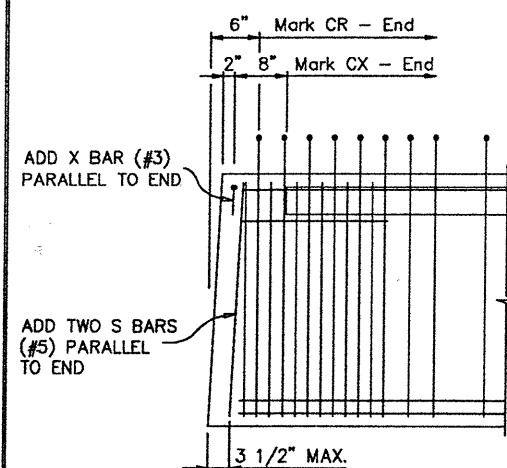


Note: Squared End Condition shown. See details below for battered or skewed conditions.

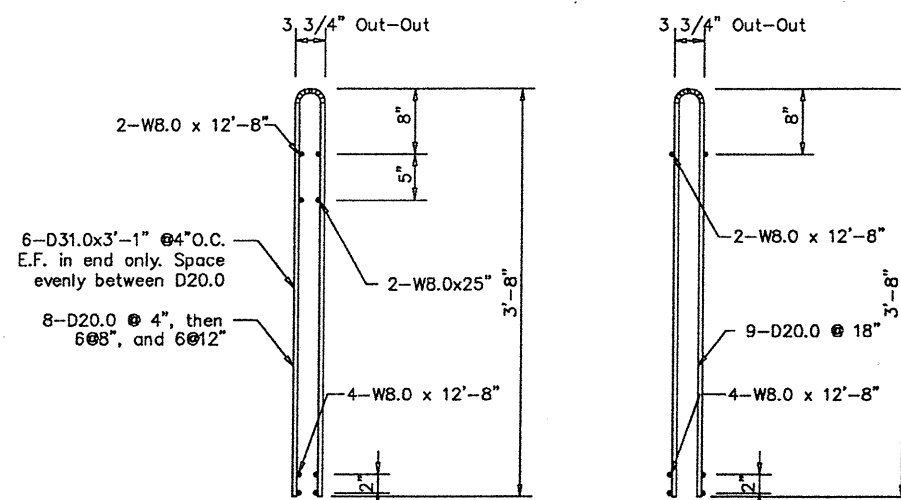
Typical Beam Elevation - WWF Placement



Plan @ Skewed End Condition

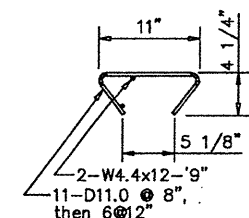


Elevation @ Battered End Condition

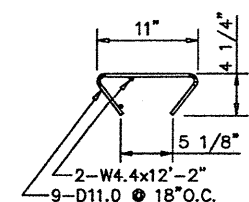


Mark CR-End

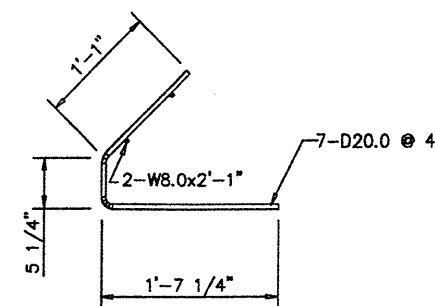
Mark CR-Mid



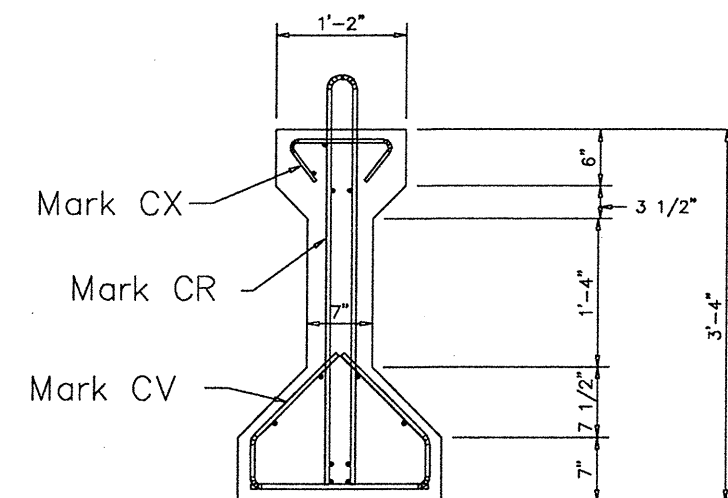
Mark CX-End



Mark CX-Mid



Mark CV



TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
SAN ANTONIO DISTRICT
STRUCTURAL DESIGN

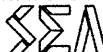
JUN 07 1996

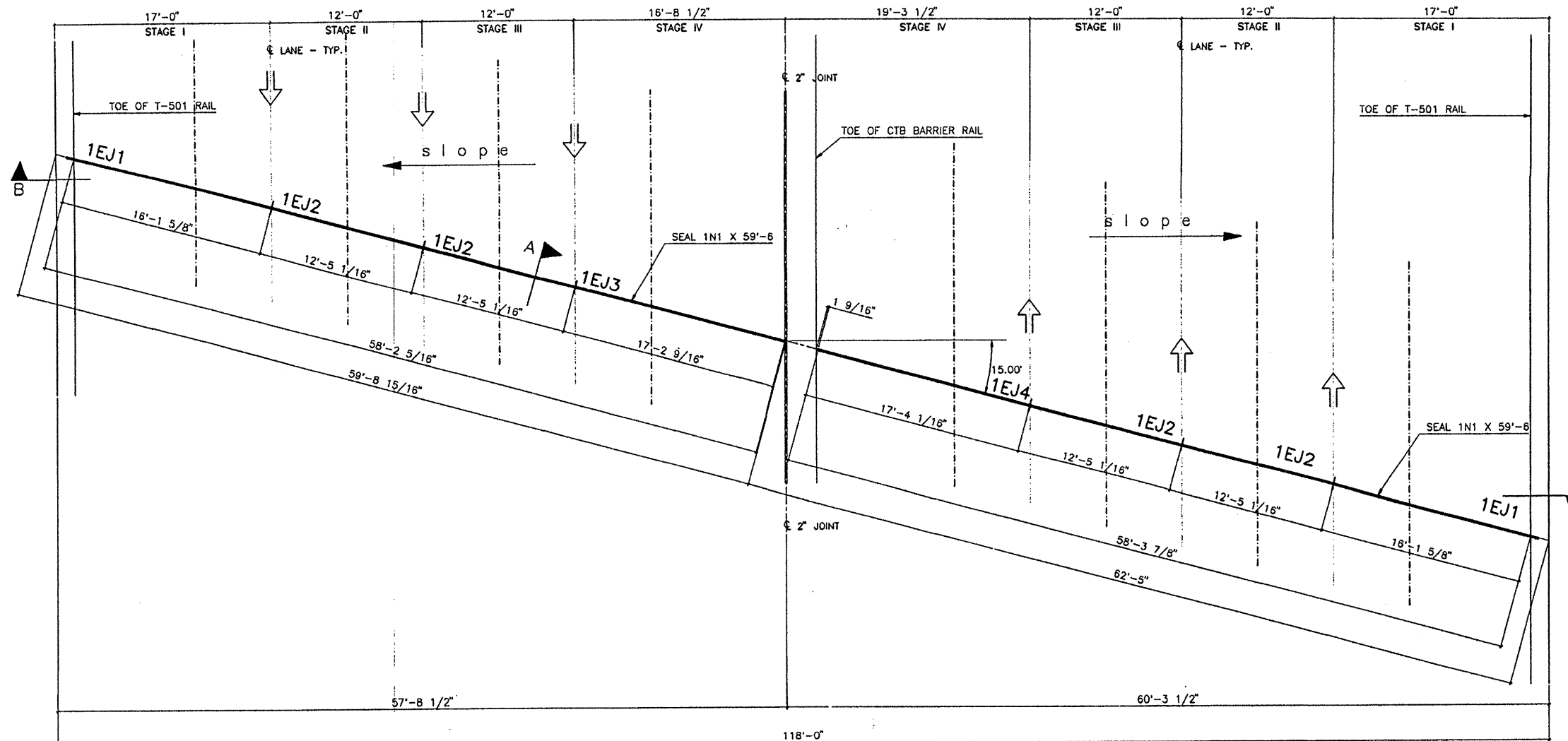
FOR APPROVAL
MAY 29 1996

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

General Notes - Welded Wire Fabric

- Dimensions relating to welded wire fabric are center to center of wires unless noted otherwise.
- Tying of welded wire fabric assembly will be sufficient to provide rigid cage only. Tying of all strand and wire intersections not required.
- Longitudinal splice is not required for welded wire fabric. Do not exceed typical spacing of transverse wires.
- Welded wire fabric conforms to ASTM A 185 or A 497, Grade 60.
- The WWF shown may be used in lieu of the conventional reinforcing Bars R,S,V and X. For other reinforcing details, see sht. S-"C".

TEXAS PRESTRESSED CONCRETE, INC.					
CONTRACTOR ACME BRIDGE CO., INC.					
FED.RD. DIV.NO.	STATE	PROJECT NO.		HWY. NO.	
6	TEXAS	NH 96(3) IM, ETC.		IH 35	
STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	
15	GUADALUPE, ETC.	0016	06	033ETC	
 STRUCTURAL ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS, SAN ANTONIO, TEXAS					
JOB NO. 608	DRAWN C.J.B.	CHECKED D.M.P.	DATE 5/29/96	SHEET WWF—"C"	
SEA JOB NO. 96-074H	WWF ALTERNATE				

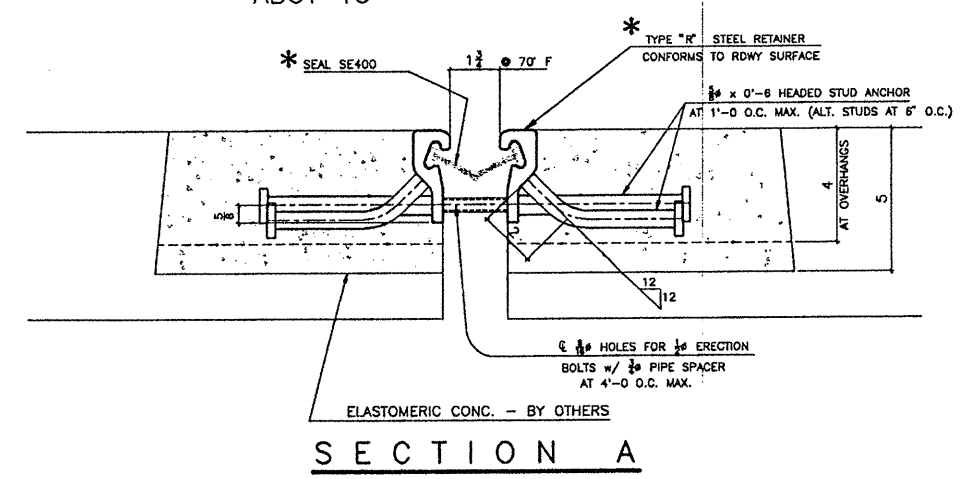


SEALED EXPANSION JOINT LAYOUT

I.H. 35 AT CIBOLO CREEK

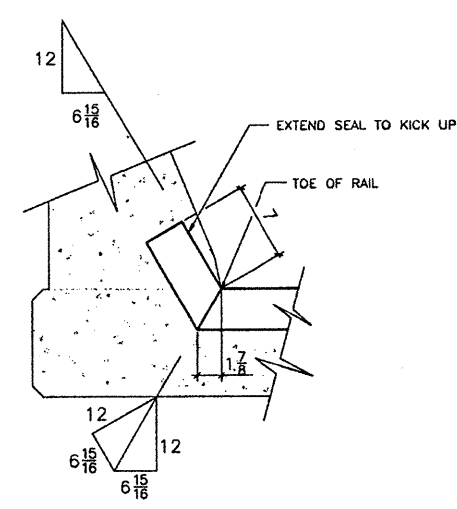
AT 6 LIKE LOCATIONS

- ABUT 1
- BENT 3
- BENT 6
- BENT 10
- BENT 13
- ABUT 15

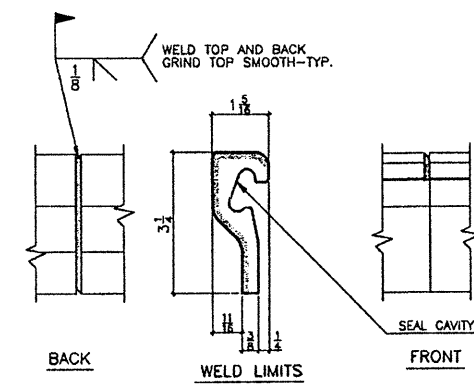


SECTION A

AFTER BRACING AND WELDING THE STEEL SECTION THE ERECTION BOLTS AND SPACERS SHALL BE REMOVED AND ERECTION HOLES SEALED BEFORE PLACING ELASTOMERIC CONCRETE.

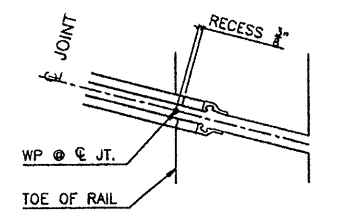


SECTION B
LOW SIDE



FIELD SPLICE WELD

NOTE:
WELD PREPARATION SHALL
DONE BY SHOP.
SEAL CAVITY SHALL BE KEPT CLEAR
OF WELD SPATTER.



TYP. PLAN AT RAIL

- GENERAL NOTES:**
- 1- Seals to be installed in one continuous piece.
 - 2- Corresponding sections shall be match marked and bolted together for shipment.
 - 3- Shop and field splices shall be made by butt welding with areas in contact with preformed joint sealer to be ground smooth.
 - 4- One shop splice will be permitted in each shipping length provided no piece is less than 2'-0" in length and sufficient studs are added to limit the stud to shop splice distance to 2" min. and 4" max.
 - 5- All steel shall be A36 or A588 and DOMESTIC.
 - 6- Material for studs shall conform to ASTM-A108, grades 1015, 1018 or 1020.
 - 7- Studs are to be elec. arc welded with complete fusion.

* = BY W.B. & Acme

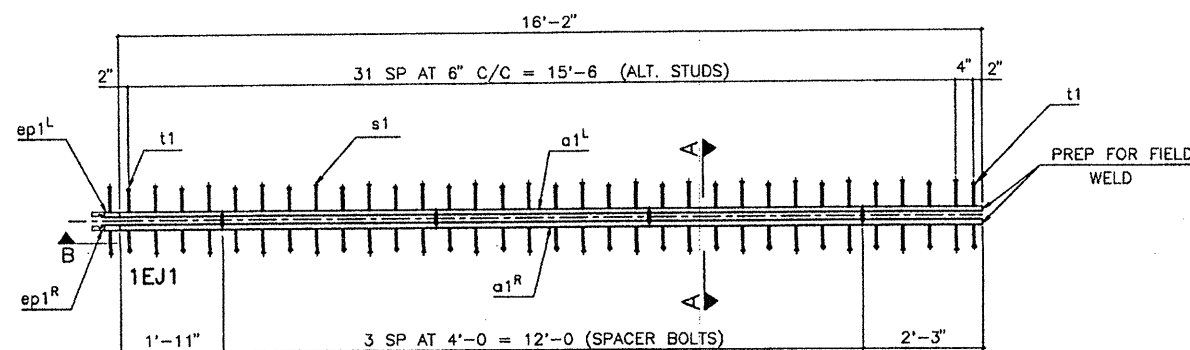
FOR APPROVAL ONLY
Capital City Steel Co., Inc.

CAPITOL CITY STEEL
COMPANY INC.

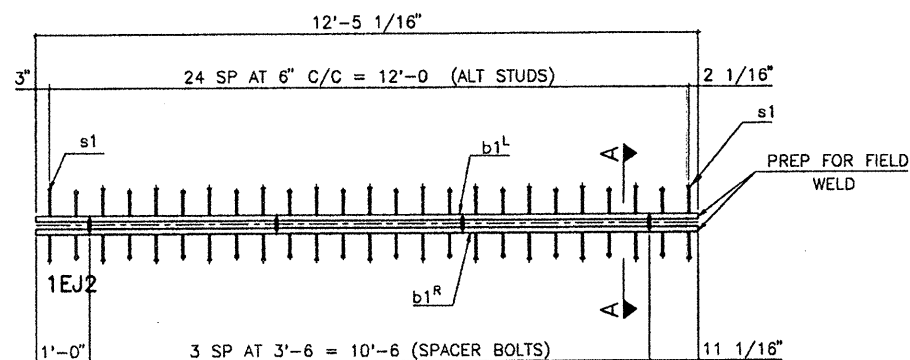
REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3185 AUSTIN TX 78764 512-282-8822 FAX 512-282-2200

CUSTOMER: WATSON BOWMAN P.O. 29885 JOB # 86-937
PROJECT: CPM 16-6-20, etc. CIRL: 0016 06-639-033 DATE: AUGUST 7, 1996
LOCATION: IH35, etc. DIST 15 GUADALUPE, etc. COUNTY DWN: PC CHK: RA
ARCH/ENG: Texas DOT SHOP PLAN # SHEET # E1 of 2

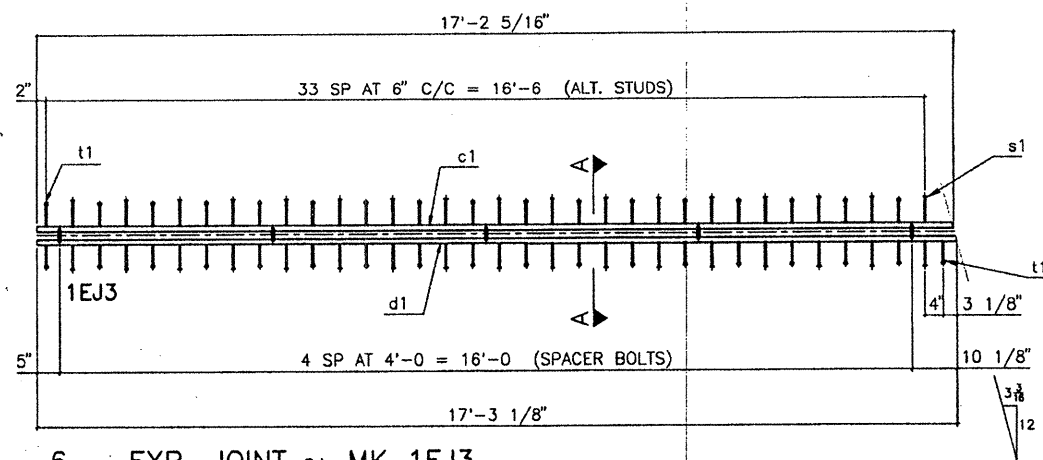
APPROVAL / REVIEW AUTHORITY. PLEASE REVIEW THIS DRAWING CAREFULLY.			Print Record	
Rev.	Date	Description	#	To Date
1			7	ADDP 8/8/96
2			7	ADDP 8/27/96
				Check
				Back
				Shop
				Shop
				Purch
				Purch
				Const
				Const
				Plotted
				Aug 20, 1996 - 10:37:17



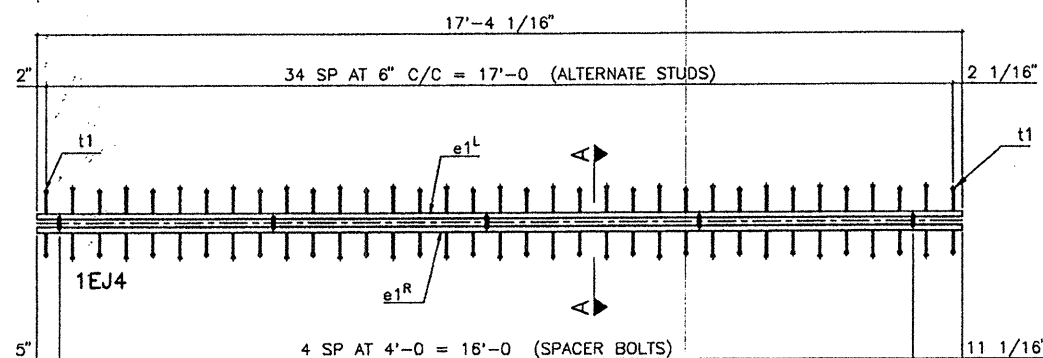
12 - EXP. JOINT ~ MK 1EJ1



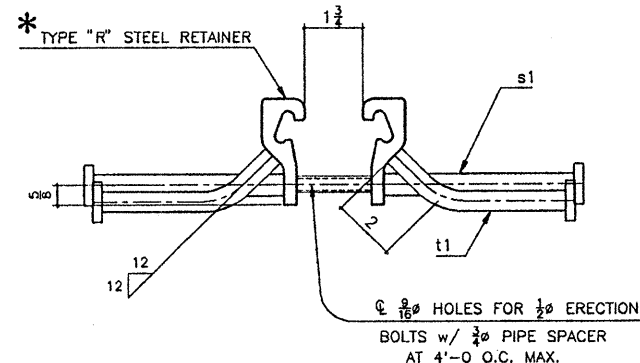
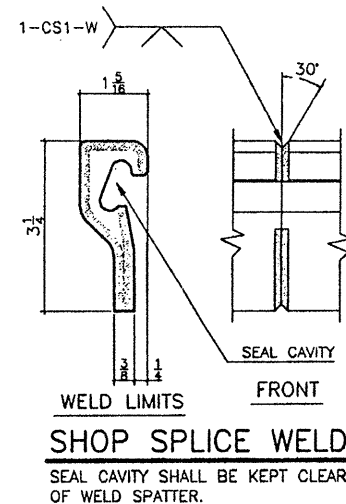
24- EXP. JOINT ~ MK 1EJ2



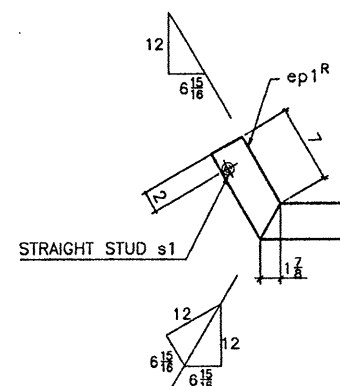
6 - EXP. JOINT ~ MK 1EJ3



6 - EXP. JOINT ~ MK 1EJ4



SECTION A



VIEW B

APPROVER / REVIEW AUTHORITY PLEASE REVIEW THIS DRAWING CAREFULLY
This drawing represents the Seller's interpretation of the intent of the contract documents. However, the Seller assumes no responsibility for the basic design elements copied from the contract drawings.
Unless noted to the contrary upon the drawings returned from approval, it will be assumed that all information shown herein has the affirmation of the approval authority. However, accuracy of all dimensions remains responsibility of the seller.

BACKCHARGES:
Back charges of any nature for corrective work or replacement material will not be accepted unless authorized by Seller. Costs that are incurred without the Seller's prior approval will be for the Buyer's account.

Rev.	Date	Description
1		
2		
3		
4		

#	To	Date
7	Appv	8/8/98
7	Appv	8/27/98
	Appv	
	Check	
	Back	
	Shop	
	Shop	
	Purch	
	Purch	
	Const	
	Const	
	Plotted	

Bill of Material

Detail Mark	#	SECTION	LENGTH	SHIPPING Mark		REMARKS	
	4"	SEALED EXP JOINT	17'-0	12	1EJ1	17.00'	9
ep1 ^{LR}	24	TYPE R EXT.	0'-8 $\frac{7}{8}$			* 12 ^L & 12 ^R	7
a1 ^{LR}	24	TYPE R EXT.	16'-3 $\frac{7}{8}$			* 12 ^L & 12 ^R	7
s1	204	$\frac{3}{8}$ " HD STUD	0'-6				7
t1	204	$\frac{3}{8}$ " HD STUD	0'-6			BENT	7
	4"	SEALED EXP JOINT	12'-6	24	1EJ2	12.50'	9
b1 ^{LR}	48	TYPE R EXT.	12'-6			* 24 ^L & 24 ^R	7
s1	624	$\frac{3}{8}$ " HD STUD	0'-6				7
t1	576	$\frac{3}{8}$ " HD STUD	0'-6			BENT	7
	4"	SEALED EXP JOINT	17'-0	6	1EJ3	17.00'	9
c1	6	TYPE R EXT.	17'-2 $\frac{5}{16}$			*	7
d1	6	TYPE R EXT.	17'-3 $\frac{1}{8}$			*	7
s1	210	$\frac{3}{8}$ " HD STUD	0'-6				7
t1	204	$\frac{3}{8}$ " HD STUD	0'-6			BENT	7
	4"	SEALED EXP JOINT	17'-0	6	1EJ4	17.00'	9
e1 ^{LR}	12	TYPE R EXT.	17'-4 $\frac{1}{16}$			* 6 ^L & 6 ^R	7
s1	204	$\frac{3}{8}$ " HD STUD	0'-6				7
t1	210	$\frac{3}{8}$ " HD STUD	0'-6			BENT	7

za1	204	1/2" BOLT	0'-5 1/4"			FOR SPACER	72
zb1	204	1/2" NUT				FOR SPACER	72
zc1	204	1/2" PIPE	0'-2 1/4"			SPACER	72

GENERAL NOTES:

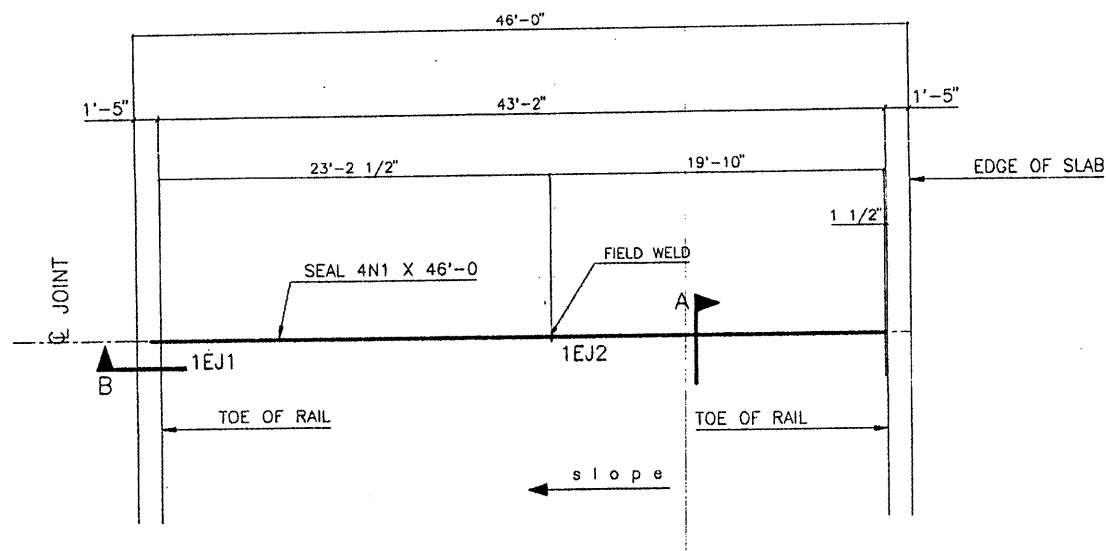
- 1- Studs are to be elec. arc welded with complete fusion.
- 2- All steel to be A36 and DOMESTIC.
- 3- Material for studs shall conform to ASTM-A108, grades 1015, 1018, or 1020.
- 4- One shop splice will be permitted in each shipping length provided no piece is less than 2'-0" in length and sufficient studs are added to limit the stud to shop splice distance to 2" minimum & 4" maximum.
- 5- Shop and field splices shall be made by butt welding with areas in contact with preformed joint sealer to be ground smooth.
- 6- Corresponding sections shall be match marked and bolted together for shipment.

* - BY WATSON BOWMAN & ACME HOLES (U.N.)/ 9/16" SHOP PAINT/ SYS II

FOR APPROVAL ONLY
CAPITOL CITY STEEL
COMPANY INC.
REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3188 AUSTIN TX 78764 512-285-8520 FAX 512-285-2500

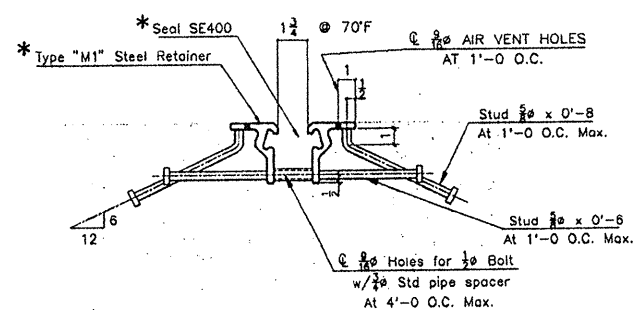
CUSTOMER: WATSON BOWMAN ACME	JOB # 96-937
PROJECT: CPM 16-6-29 etc. CTRL: 0016 06-030 033	DATE: AUGUST 7, 1996
LOCATION: I.H. 35 etc. DIST 15 GUADALUPE COUNTY	DWN: PC CHK: RA
ARCH/ENG: TEXAS DOT SHOP PLAN #:	SHEET # 1 of 3

4" (SEJ) ~ SHOP DETAILS



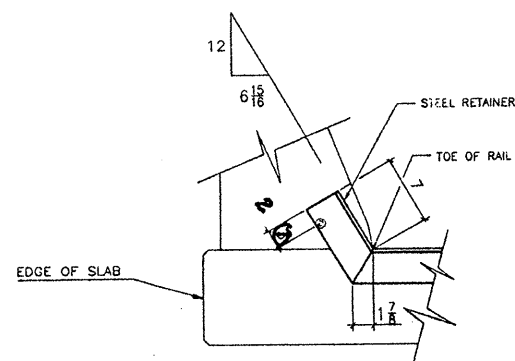
S.E.J. - IH 35 UNDERPASS AT WEIDERSTEIN ROAD

AT 2 LIKE LOCATIONS
ABUT NO 1
ABUT NO 3

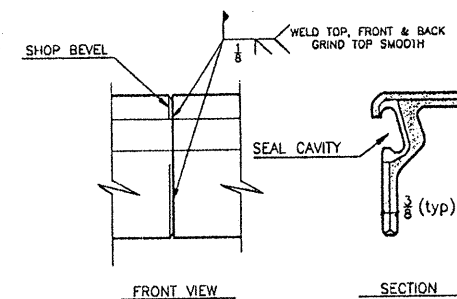


SECTION A

AFTER BRACING AND WELDING THE STEEL SECTION, THE ERECTION BOLTS AND SPACERS SHALL BE REMOVED AND ERECTION HOLES SEALED BEFORE PLACING SLAB CONCRETE.



SECTION B
LOW SIDE



FIELD WELD

REMOVE ALL BURRS WHICH WILL BE IN CONTACT WITH SEAL

APPROVER / REVIEW AUTHORITY PLEASE REVIEW THIS DRAWING CAREFULLY
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BACKCHARGES:
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Rev.	Date	Description
1		
2		

#	To	Date
7	Appv	6/11/97
	Appv	
	Check	
	Back	
	Shop	
	Shop	
	Purch	
	Const	
	Const	
	Plotted	

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED EXCEPT AS NOTED
DESIGN DIVISION-BRIDGE SECTION

JUN 13 1997

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL.

FOR APPROVAL ONLY
Capitol City Steel Co., Inc.

GENERAL NOTES:

- 1- Seals to be installed in one continuous piece.
- 2- Corresponding sections shall be match marked and bolted together for shipment.
- 3- Shop and field splices shall be made by butt welding with areas in contact with preformed joint sealer to be ground smooth.
- 4- One shop splice will be permitted in each shipping length provided no piece is less than 2'-0 in length and sufficient studs are added to limit the stud to shop splice distance to 2' min. & 4' max.
- 5- All steel to be A36 or A588 and DOMESTIC.
- 6- Material for studs shall conform to ASTM-A108, grades 1015, 1018, or 1020.
- 7- Studs are to be elec. arc welded with complete fusion.

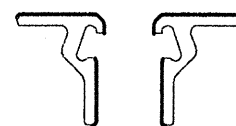
* = BY W.B. & Acme

CAPITOL CITY STEEL
COMPANY INC.

REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3185 AUSTIN TX 78768 512-283-8800 FAX: 512-283-2550

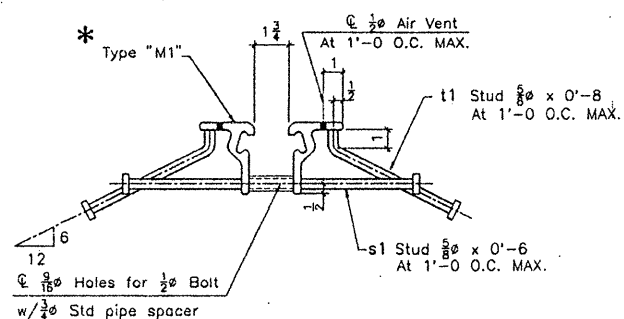
CUSTOMER: ACME BRIDGE	JOB # 97-904
PROJECT: NH 96 (3) IM CTRL: 0016 08 033	DATE: JUNE 10, 1997
LOCATION: IH 35 DIST 15 GUADALUPE COUNTY	DWN: PC CHK: RA
ARCH/ENG: TEXAS DOT SHOP PLAN #:	SHEET # E1 OF 1

SEALED EXPANSION JOINT PLAN LAYOUT

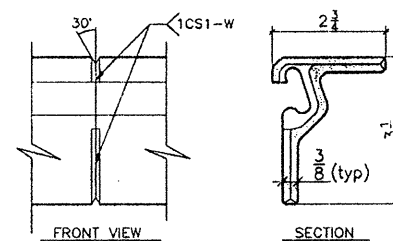
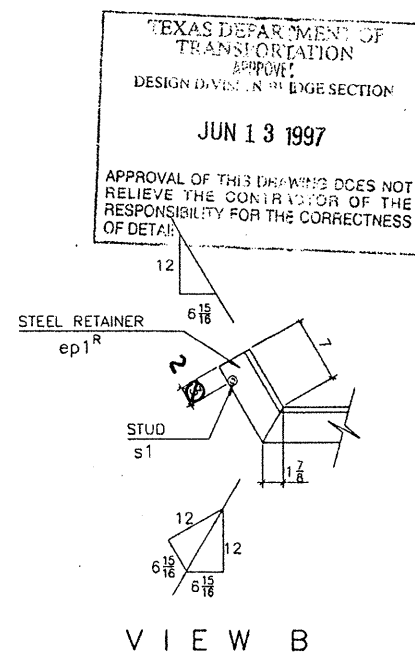


P A I N T L I M I T S

Paint darkened areas. Do not paint seal cavity



SECTION A-A



SHOP WELD DETAIL
FOR APPROVAL ONLY
Capitol City Steel Co., Inc.

APPROVER / REVIEW AUTHORITY PLEASE REVIEW THIS DRAWING CAREFULLY

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unless noted to the contrary upon the drawings returned from approval, it will be assumed that all information shown hereon has the affirmation of the approval authority. However, accuracy of all dimensions remains responsibility of the seller.

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Rev.	Date	Description
1		
2		
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4		

Print Record		
#	To	Date
7	Appv	5/11/78
	Appv	
	Appv	
	Check	
	Back ✓	
	Shop	
	Shop	
	Purch	
	Purch	
	Const	
	Const	
	PLOTTED	

Jun 10, 1987 - 11:57:23

Jun 10, 1997 - 11:57:

Bill of Material	
------------------	--

[illegible]

GENERAL NOTES:

- 1 - Studs are to be elec. arc welded with complete fusion.
- 2 - All steel to be A588 or A36 and DOMESTIC.
- 3 - Material for studs shall conform to ASTM-A108, grades 1015, 1218, or 1020.
- 4 - One shop splice will be permitted in each shipping length provided no splice is longer than 10' in length and sufficient studs are added to limit the stud to shop splice distance to 2" minimum & 4" maximum.
- 5 - Shop and field splices shall be made by butt welding with area in contact with preformed joint sealer to be ground smooth.
- 6 - Corresponding sections shall be match marked and bolted together for shipment.

* - BY WATSON BOWMAN & ACME HOLES (U.N.) / $\frac{9}{16} \phi$ SHOP PAINT / S'S II



CAPITOL CITY STEEL
C O M P A N Y I N C.



CRSI
REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3188 AUSTIN TX 78744 512-282-8820
FAX: 512-285-2500

CUSTOMER: ACME BRIDGE

PROJECT: NH 96(3) IM CTRL: 0016 06 033

ARCH/ENG: TEXAS DOT SHOP PLAN #:

3" (CEA) GLOB DETAIL

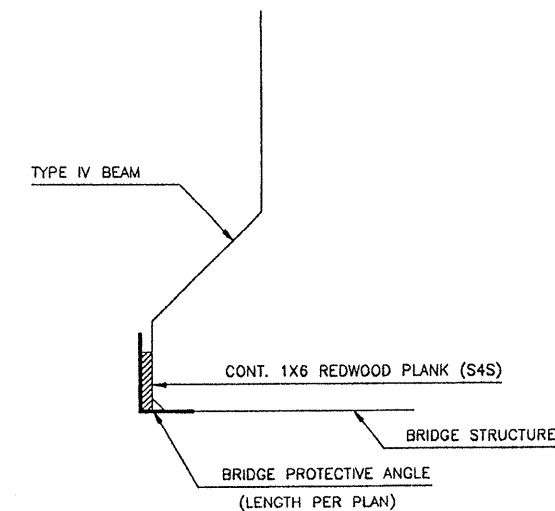
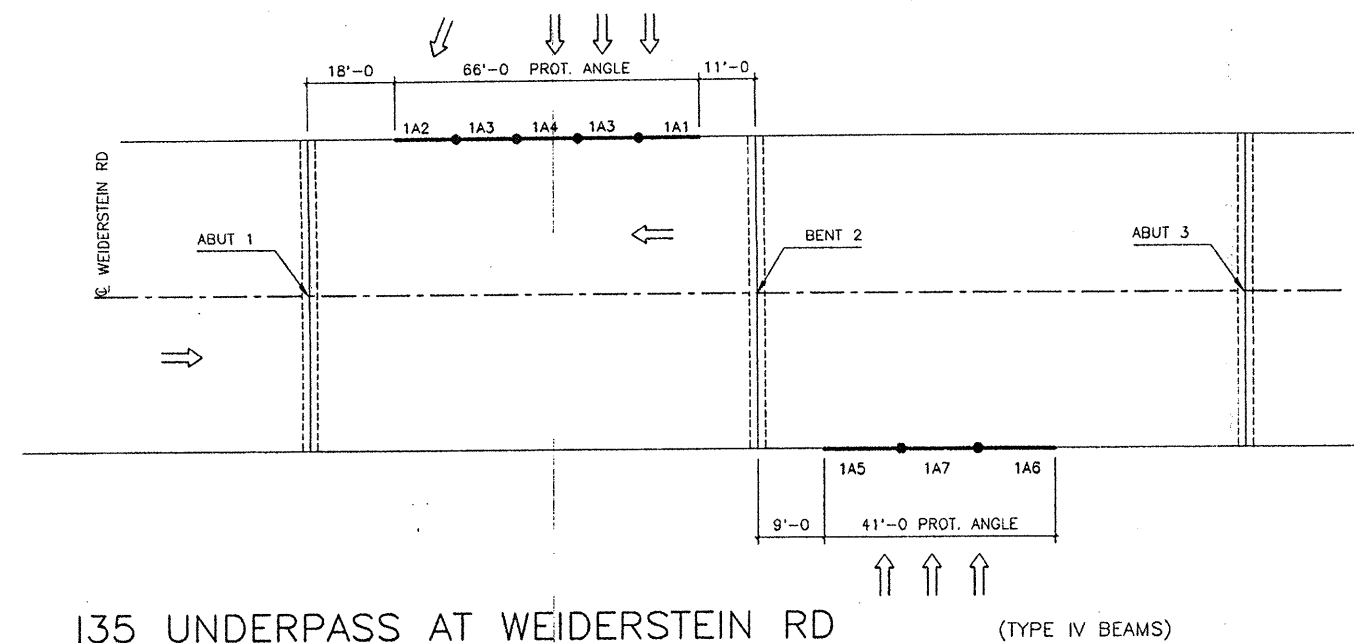
3 (SEJ) ~ SHOP DETAIL

JOB # 97-904

DATE: JUNE 10, 1997

SHEET # 1 of 1

SECRET 7 OF 7



TYPICAL SECTION

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
DESIGN DIVISION-BRIDGE SECTION

JUN 13 1997

APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL.

GENERAL NOTES:
1. All steel for bridge protective assembly to be A36 and DOMESTIC and may be shipped in convenient lengths (11'-0" MIN.)
2. Redwood Planks shall be beveled to clear inside radius of Protective Angle and shall be full length of angle. Joints in plank shall not coincide with joints in angle.

FOR APPROVAL ONLY
Capitol City Steel Co., Inc.

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Rev.	Date	Description
1		
2		
3		
4		
5		

#	To	Date
7	Appv	6/11/97
	Appv	
	Check	
	Back	
	Shop	
	Shop	
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	Const	
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	Plot	
	Plot	

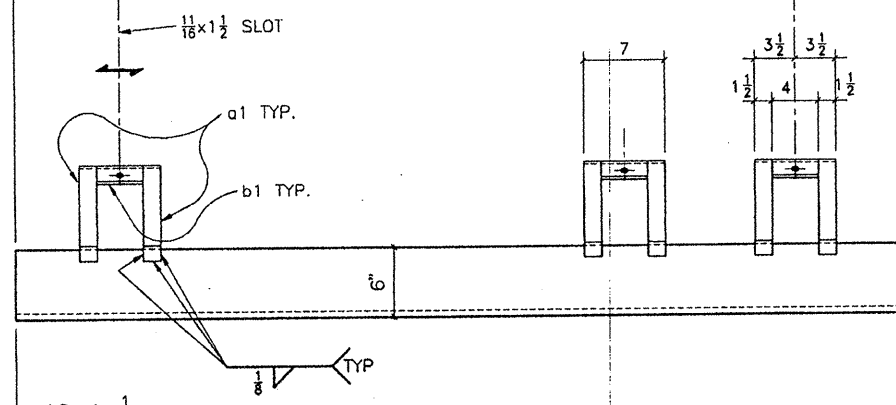
CAPITOL CITY STEEL
COMPANY INC.
REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3188 AUSTIN TX 78764 512-382-8920 FAX: 512-382-2500

CUSTOMER: ACME BRIDGE
PROJECT: NH 96(3)IM CTRL: 16 6 33
LOCATION: IH35 DIST 15 GUADALUPE COUNTY
ARCH/ENG: TEXAS D.O.T.

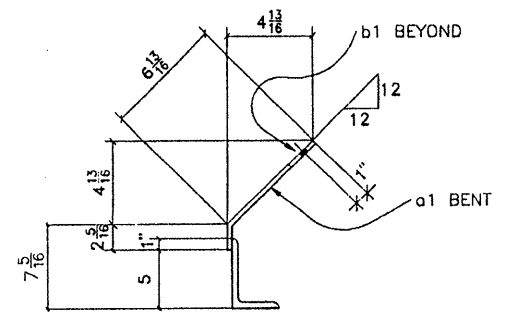
JOB # 97-606
DATE: JUNE 10, 1997
DWN: PC CHK: RA
SHEET # E1 of 1

BRIDGE PROTECTIVE ANGLE ~ LAYOUT

1A7	1'-8 $\frac{3}{4}$	4 SPA AT 3'-3 = 13'-0	1'-8 $\frac{3}{4}$
1A6	1'-5 $\frac{3}{4}$	3 SPA AT 3'-3 = 9'-9	1'-0
1A5	1'-0	3 spa at 3'-3 = 9'-9	1'-5 $\frac{3}{4}$
1A4	1'-7 $\frac{1}{4}$	4 SPA AT 3'-3 = 13'-0	1'-7 $\frac{1}{4}$
1A3	1'-7 $\frac{1}{4}$	3 SPA AT 3'-3 = 9'-9	1'-7 $\frac{1}{4}$
1A2	1'-7 $\frac{1}{4}$	3 SPA AT 3'-3 = 9'-9	0'-6
1A1	0'-6	3 SPA AT 3'-3 = 9'-9	1'-7 $\frac{1}{4}$



1A1	L6x4x $\frac{1}{2}$	11'-10 $\frac{1}{4}$	ONE
1A2	L6x4x $\frac{1}{2}$	11'-10 $\frac{1}{4}$	ONE
1A3	L6x4x $\frac{1}{2}$	12'-11 $\frac{1}{2}$	2
1A4	L6x4x $\frac{1}{2}$	16'-2 $\frac{1}{2}$	ONE
1A5	L6x4x $\frac{1}{2}$	12'-2 $\frac{3}{4}$	ONE
1A6	L6x4x $\frac{1}{2}$	12'-2 $\frac{3}{4}$	ONE
1A7	L6x4x $\frac{1}{2}$	16'-5 $\frac{1}{2}$	ONE



VIEW A
FITS TYPE IV BEAM

SHOP NOTE :
SEAL WELD AS REQ'D FOR
HOT DIP GALVANIZING

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
DESIGN DIVISION-BRIDGE SECTION
JUN 13 1997
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL.

Rev.	Date	Description
1		
2		
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10		

#	To	Date
1	Appv	8/11/97
2	Appv	
3	Appv	
4	Check	
5	Back	
6	Shop	
7	Shop	
8	Purch	
9	Purch	
10	Const	
11	Const	
12	Plot	
13	Plot	

Bill of Material

Detail Mark	#	SECTION	LENGTH	SHIPPING Mark	REMARKS	
		ANGLE	11'-10 $\frac{1}{4}$	ONE 1A1		60
1	8	L 6 x 4 x $\frac{1}{2}$	11'-10 $\frac{1}{4}$			72
a1	8	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	4	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	11'-10 $\frac{1}{4}$	ONE 1A2		60
1	8	L 6 x 4 x $\frac{1}{2}$	11'-10 $\frac{1}{4}$			72
a1	8	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	4	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	12'-11 $\frac{1}{2}$	2 1A3		60
2	16	L 6 x 4 x $\frac{1}{2}$	12'-11 $\frac{1}{2}$			72
a1	16	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	8	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	16'-2 $\frac{1}{2}$	ONE 1A4		60
2	10	L 6 x 4 x $\frac{1}{2}$	16'-2 $\frac{1}{2}$			72
a1	10	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	5	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	12'-2 $\frac{1}{4}$	ONE 1A5		60
1	8	L 6 x 4 x $\frac{1}{2}$	12'-2 $\frac{1}{4}$			72
a1	8	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	4	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	12'-2 $\frac{1}{4}$	ONE 1A6		60
1	8	L 6 x 4 x $\frac{1}{2}$	12'-2 $\frac{1}{4}$			72
a1	8	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	4	R $\frac{3}{8}$ x 2	0'-4			72
		ANGLE	16'-5 $\frac{1}{2}$	ONE 1A7		60
1	10	L 6 x 4 x $\frac{1}{2}$	16'-5 $\frac{1}{2}$			72
a1	10	R $\frac{3}{8}$ x 1 $\frac{1}{2}$	0'-9 $\frac{1}{8}$		BENT	72
b1	5	R $\frac{3}{8}$ x 2	0'-4			72

GENERAL NOTES:
1. All steel for bridge protective assembly to be A36 and DOMESTIC and may be shipped in convenient lengths (11'-0 MIN.)
2. SHOP: SEAL WELD ALL JOINTS FOR GALVANIZING.
3. ENTIRE ASSEMBLY SHALL BE HOT DIP GALVANIZED PER ASTM A123.

FOR APPROVAL ONLY
Capitol City Steel Co., Inc.

HOLKS (U.N.) / 11 16 SHOP PAINT / GALV.

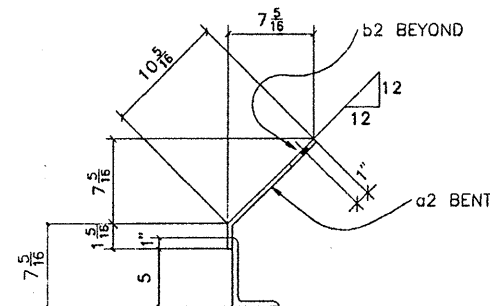
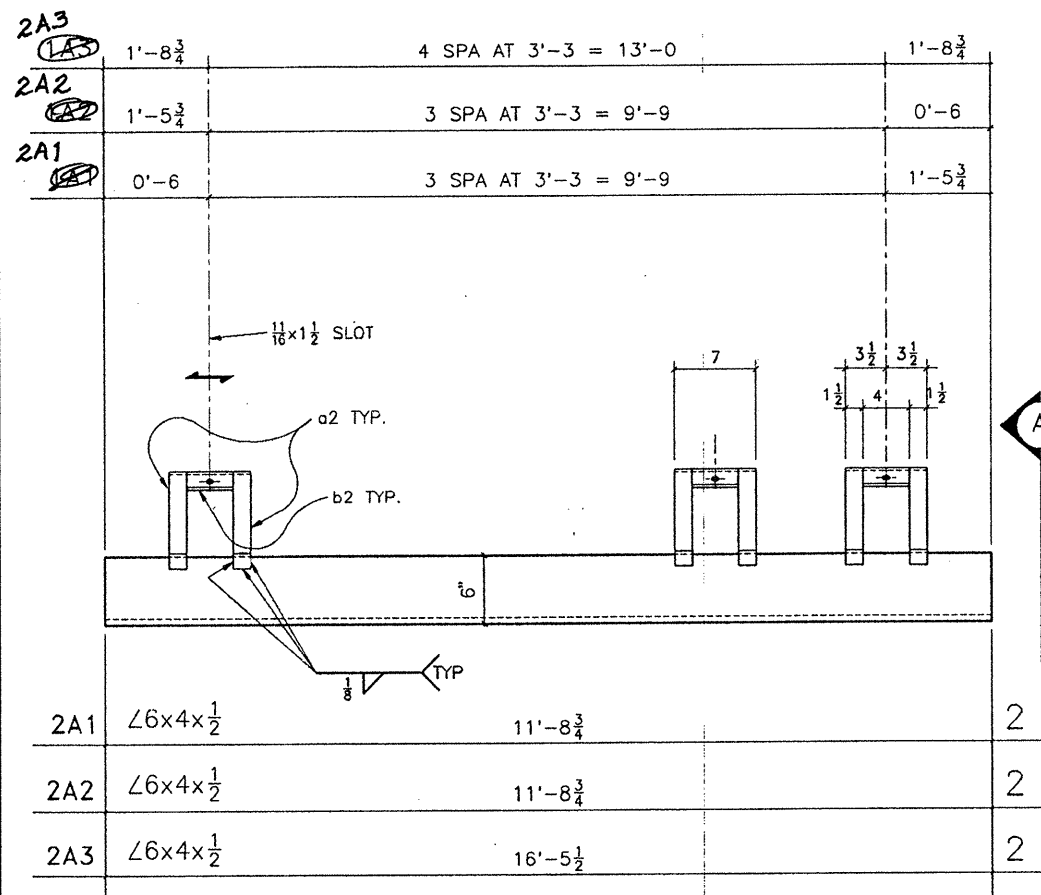
CAPITOL CITY STEEL
COMPANY INC.

REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3185 AUSTIN TX 78764 512-282-8820 FAX: 512-282-3500

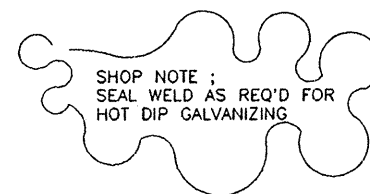
CUSTOMER: ACME BRIDGE
PROJECT: NH 96(3)M CTRL: 16 & 33
LOCATION: IH35 DIST 15 GUADALUPE COUNTY
ARCH/ENG: TEXAS D.O.T.

JOB # 97-606
DATE: JUNE 10, 1997
DWN: PC CHK: RA
SHEET # 1 of 1

BRIDGE PROTECTIVE ANGLE ~ SHOP DETAILS



VIEW A
FITS TYPE C BEAM



Bill of Material

Detail Mark	#	SECTION	LENGTH	SHIPPING Mark	REMARKS	
	2	ANGLE	11'-8 $\frac{3}{4}$	2	2A1	60
	2	∠ 6 x 4 x 1/2	11'-8 $\frac{3}{4}$			72
a2	16	∠ 6 x 4 x 1/2	0'-11 $\frac{3}{8}$		BENT	72
b2	8	∠ 6 x 4 x 1/2	0'-4			72
	2	ANGLE	11'-8 $\frac{3}{4}$	2	2A2	60
	2	∠ 6 x 4 x 1/2	11'-8 $\frac{3}{4}$			72
a2	16	∠ 6 x 4 x 1/2	0'-11 $\frac{3}{8}$		BENT	72
b2	8	∠ 6 x 4 x 1/2	0'-4			72
	2	ANGLE	16'-5 $\frac{1}{2}$	2	2A3	60
	2	∠ 6 x 4 x 1/2	16'-5 $\frac{1}{2}$			72
a2	20	∠ 6 x 4 x 1/2	0'-11 $\frac{3}{8}$		BENT	72
b2	10	∠ 6 x 4 x 1/2	0'-4			72

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED EXCEPT AS NOTED
DESIGN DIVISION-BRIDGE SECTION

JUN 24 1997

APPROVAL OF THIS DRAWING DOES NOT
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APPROVER / REVIEW AUTHORITY. PLEASE REVIEW THIS DRAWING CAREFULLY.
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Rev.	Date	Description
1		
2		
3		
4		

#	To	Date
7	Appv	6/20/97
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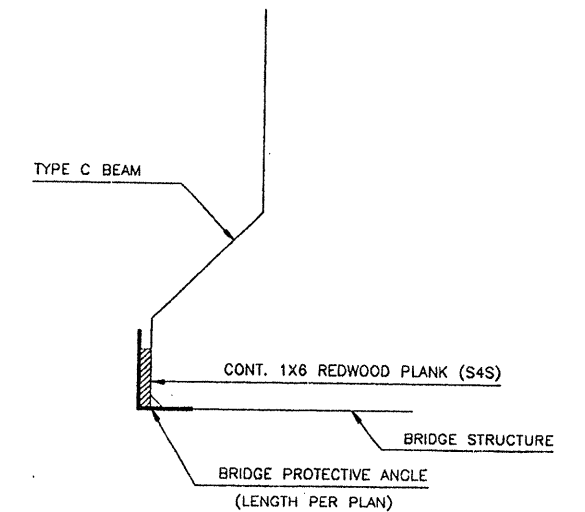
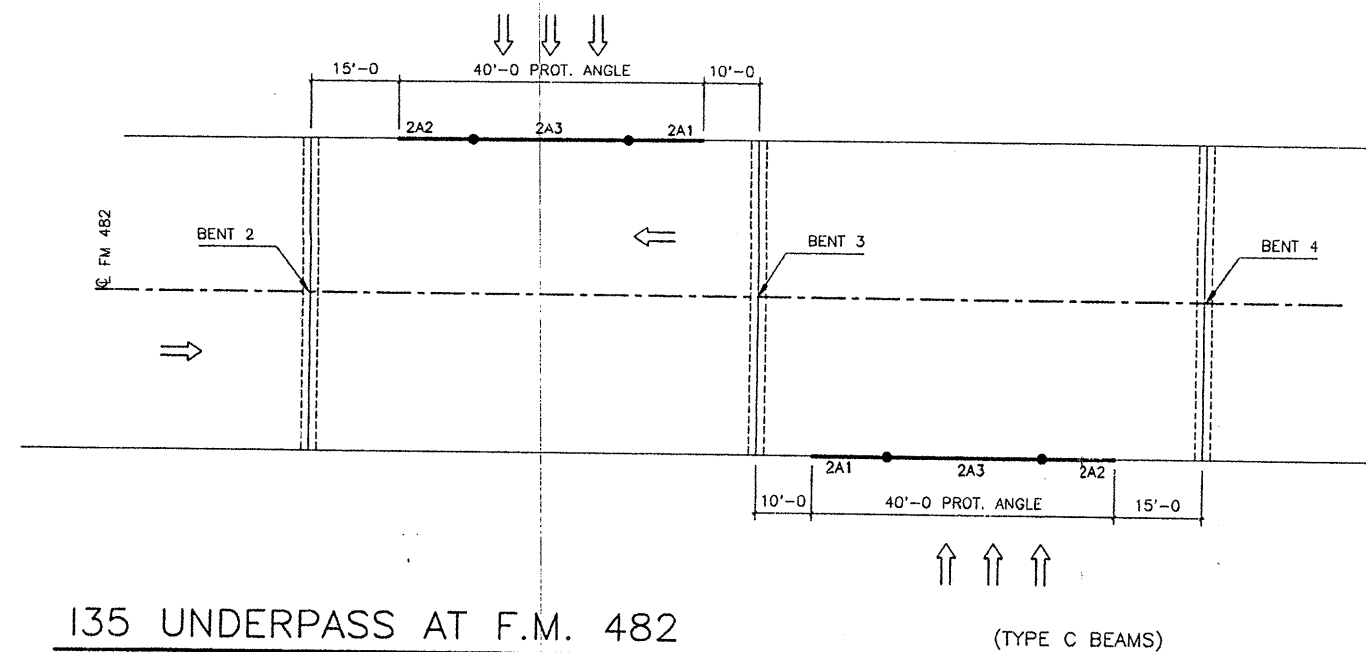
- GENERAL NOTES:
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 - SHOP: SEAL WELD ALL JOINTS FOR GALVANIZING.
 - ENTIRE ASSEMBLY SHALL BE HOT DIP GALVANIZED PER ASTM A123.

FOR APPROVAL ONLY
Capitol City Steel Co., Inc.

HOLES 11/16" / 16" SHOP PAINT / GALV.

CAPITOL CITY STEEL
COMPANY INC.

CUSTOMER: ACME BRIDGE	DATE: JUNE 10, 1997
PROJECT: NH 96(3)IM CTRL: 16 6 33	DWN: PC CHK: RA
LOCATION: IH35 DIST 15 GUADALUPE COUNTY	SHEET # 2 of 2
ARCH/ENG: TEXAS D.O.T.	BRIDGE PROTECTIVE ANGLE ~ SHOP DETAILS



TYPICAL SECTION

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED EXCEPT AS NOTED
DESIGN DIVISION-BRIDGE SECTION

JUN 24 1997

APPROVAL OF THIS DRAWING DOES NOT
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OF DETAIL.

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2. Redwood Planks shall be beveled to clear inside radius of Protective Angle and shall be full length of angle. Joints in plank shall not coincide with joints in angle.

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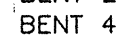
Rev.	Date	Description
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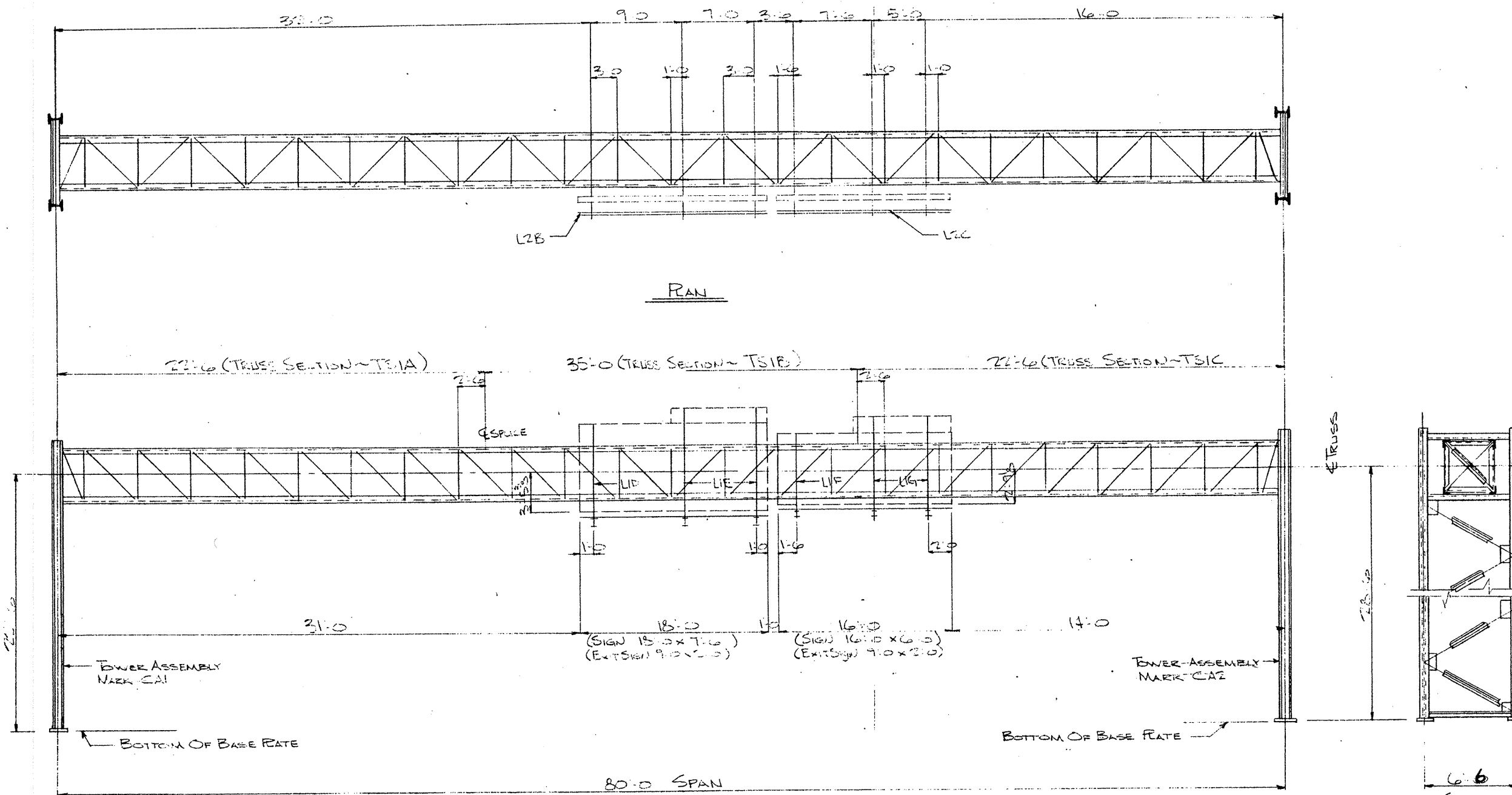
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	Appv	
	Check	
	Back	
	Shop	
	Shop	
	Purch	
	Purch	
	Const	
	Const	
	Plotted	

CAPITOL CITY STEEL
COMPANY INC.
REINFORCING & STRUCTURAL STEEL FABRICATORS
SUPPLIER OF CONSTRUCTION MATERIALS
P.O. BOX 3198 AUSTIN TX 78764 512-282-8820
FAX: 512-282-2500

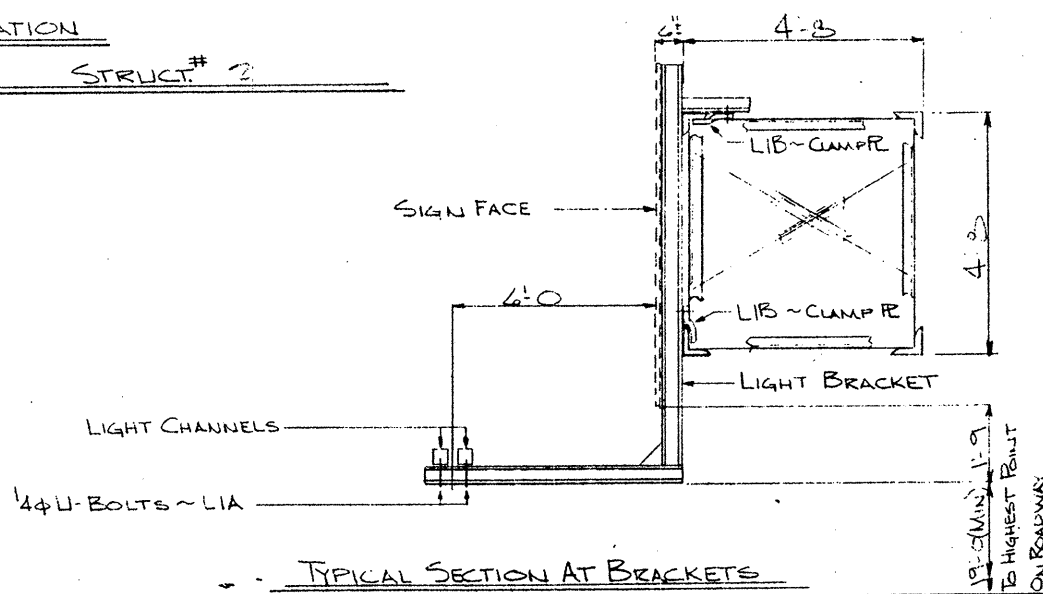
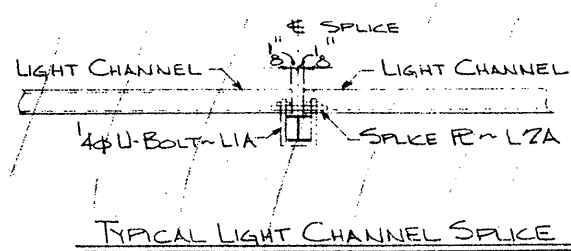
CUSTOMER: ACME BRIDGE	JOB # 97-606
PROJECT: NH 96(3)M CTRL: 16 6 33	DATE: JUNE 10, 1997
LOCATION: IH35 DIST 15 GUADALUPE COUNTY	DWN: PC CHK: RA
ARCH/ENG: TEXAS D.O.T. SHOP PLAN FILE: 7732	SHEET # E2 of 2

BRIDGE PROTECTIVE ANGLE ~ LAYOUT

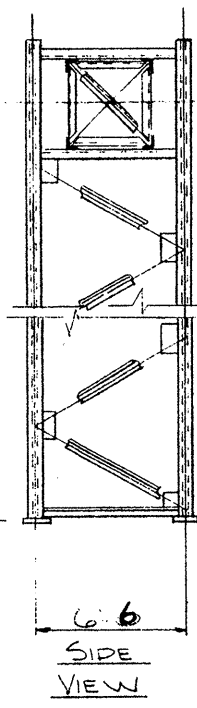




ELEVATION
STATION # 10151+11 STRUCT. # 2



SUMMARY OF MATERIALS		
MARK	QTY	DESCRIPTION
CA1	ONE	TOWER ASSEMBLY (LEFT)
CA2	ONE	do do (RIGHT)
TS1A	ONE	TRUSS SECTION ASSEMBLY
TS1B	ONE	do do
TS1C	ONE	do do
T3S	2	TRUSS SPLICE ANGLES
L1A	12	1/4" U-BOLT
L1B	12	BRACKET CLAMP PLATES
L1D	ONE	LIGHT BRACKETS
L1E	2	
L1F	ONE	
L1G	2	
L7A		SPLICE PLATES
L7B	2	LIGHT CHANNELS
L7C	2	do
W	ONE	WALKWAY & HANDRAIL ASSEMBLY
W1G		1/4" U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	3/4" x 7"	GMB W/HHEHN ASTM TRUSS TO
9	3/4" HARD WASHERS	A325 TOWER
165	3/4" x 1 1/2"	GMB W/HHEHN ASTM TRUSS
165	3/4" HARD WASHERS	A325 SPLICE
25	1/4" x 3/4"	GMB W/HHEHN ASTM LIGHT
25	1/4" STD GALV. WASHERS	A307 BRACKETS
25	1/4" GALV. BEV. WASHERS	TRUSS
	3/8" x 1 1/4"	HEX HD. CAP SCREWS
	3/8"	CLAMPING NUTS
	3/4" STD GALV. WASHERS	A307 FIXTURE
	1/2" THK x 2' x 2'	NEOPRENE PAD
		ACCESS.



THE CONTRACTOR OF THIS PROJECT HAS REVIEWED AND APPROVED THIS DRAWING EXCEPT AS NOTED DESIGNATION-BRIDGE SECTION
MAR 04 1993
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF THE SAME

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 96 (3) IM	1
STATE DIST. NO.	COUNTY	CONT. SECT. JOB	HIGHWAY NO.
15	GUADALUPE	DOCK 240 023	TH 32

DRAWN BY	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
B	1-93		F3473
CHECKED BY	DATE	FOR APPROVAL	DWG. E1
FINISH	TO SHOP	SHT. OF	REV
GALV.			

FEB 2 1993

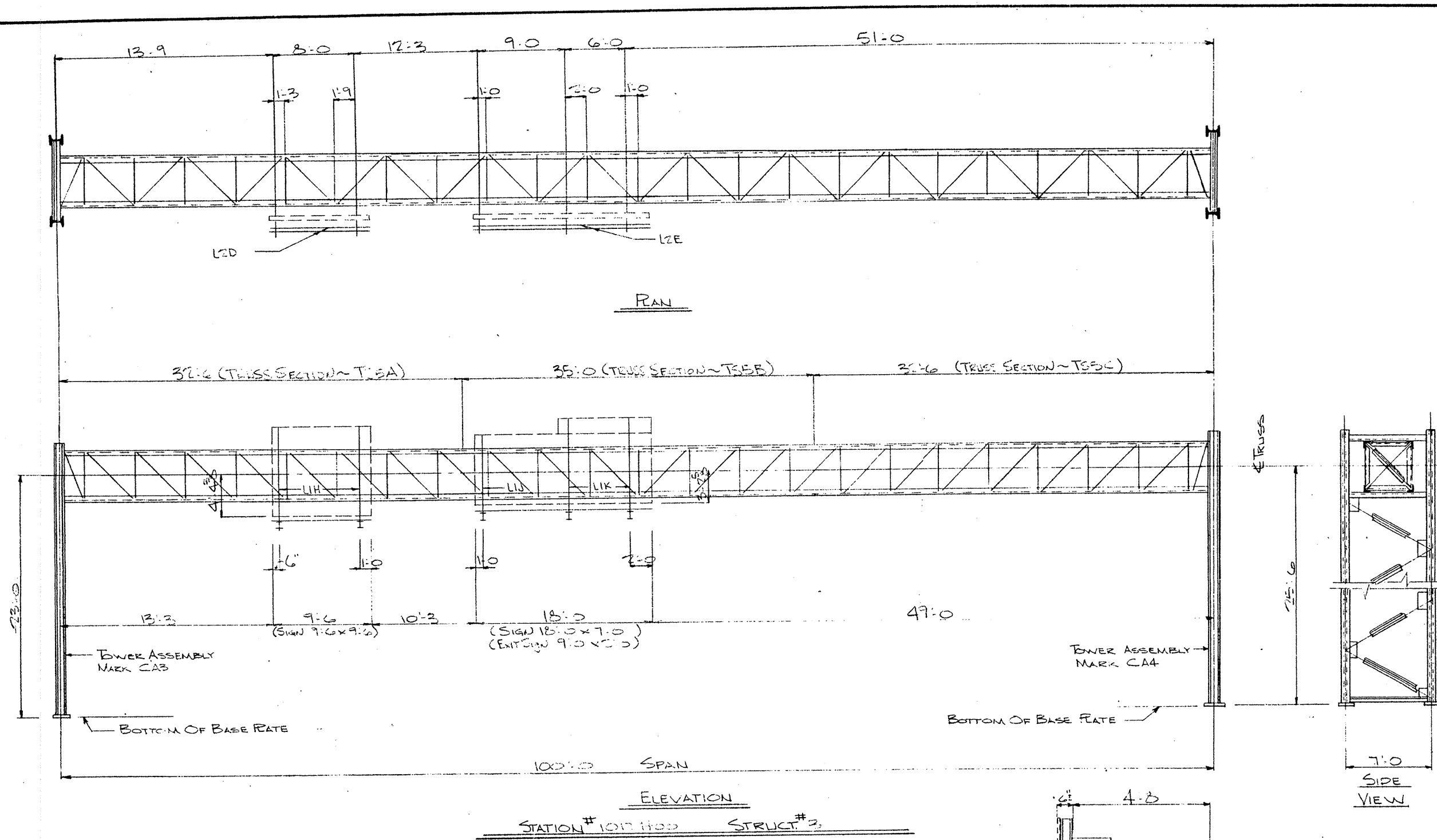
BID ITEM # 650 ITEM # ONE

APPROVAL PRINT

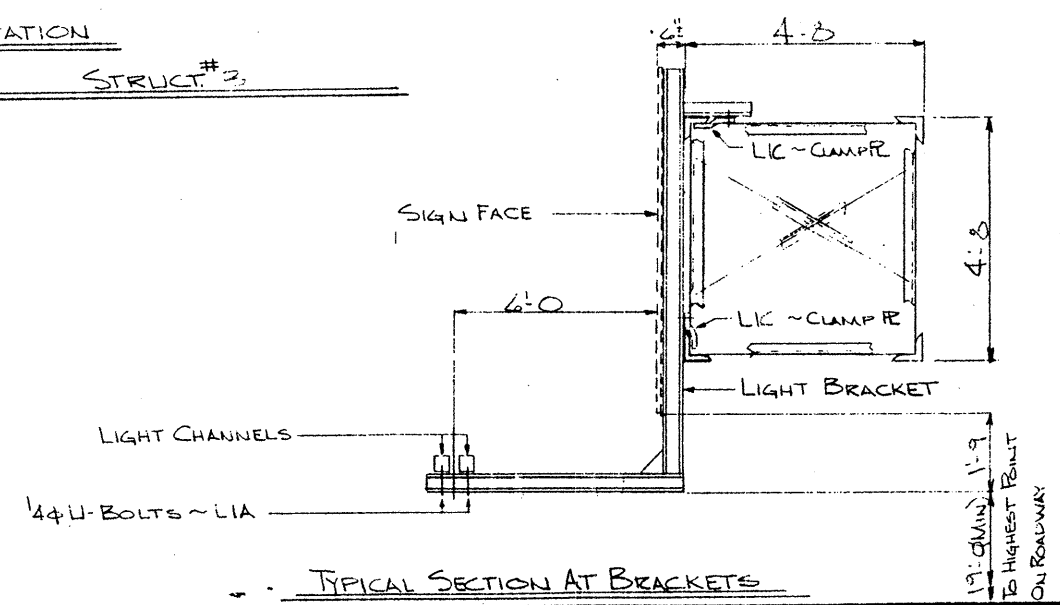
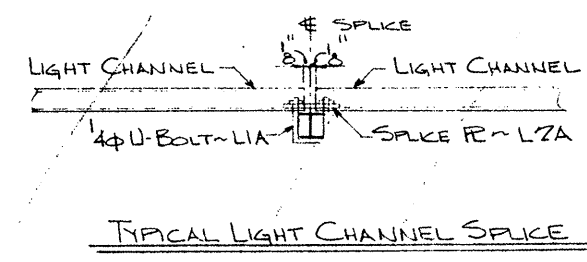
REV	REVISION	ION	BY	DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

DESCRIPTION: ERECTION ~ OVERHEAD SIGN BRIDGE
STATION # 10151+11 (80'-0" SPAN)
LOCATION: GUADALUPE COUNTY, TEXAS
CUSTOMER: MICA CORPORATION # 824



SUMMARY OF MATERIALS		
MARK	QTY	DESCRIPTION
CA3	ONE	TOWER ASSEMBLY (LEFT)
CA4	ONE	TOWER ASSEMBLY (RIGHT)
TSA	ONE	TRUSS SECTION ASSEMBLY
TSB	ONE	TRUSS SECTION ASSEMBLY
TSC	ONE	TRUSS SECTION ASSEMBLY
TSA	8	TRUSS SPICE ANGLES
LIA	10	1/4" U-BOLT
LIC	10	BRACKET CLAMP PLATES
LII	2	LIGHT BRACKETS
LIV	ONE	
LIX	2	
LZA		SPICE PLATES
LZD	2	LIGHT CHANNELS
LZE	2	LIGHT CHANNELS
W	ONE	WALKWAY & HANDICAP ASSEMBLY
WIG		1/2" U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	1" x 7/2" GMB W/HHEN	ASTM TRUSS TO
9	1" x HARD WASHERS	A325 TOWER
165	3/4" x 7/2" GMB W/HHEN	ASTM TRUSS
165	3/4" x HARD WASHERS	A325 SPICE
21	1/2" x 3/4" GMB W/HHEN	ASTM LIGHT
21	1/2" STD GALV. WASHERS	A307 BRACKETS
21	1/2" GALV. BEV. WASHERS	TO TRUSS
34	3/4" x 1 1/4" HEX HD. CAP SCREWS	
34	3/4" CLAMPING NUTS	ASTM LIGHT
34	3/4" STD GALV. WASHERS	A307 FIXTURE
16	1/2" x 2" x 1/2" NEOPRENE PAD	ACCESS



TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF DETAIL

BID ITEM # 650 ITEM # 4

FEB 2 1998

APPROVAL

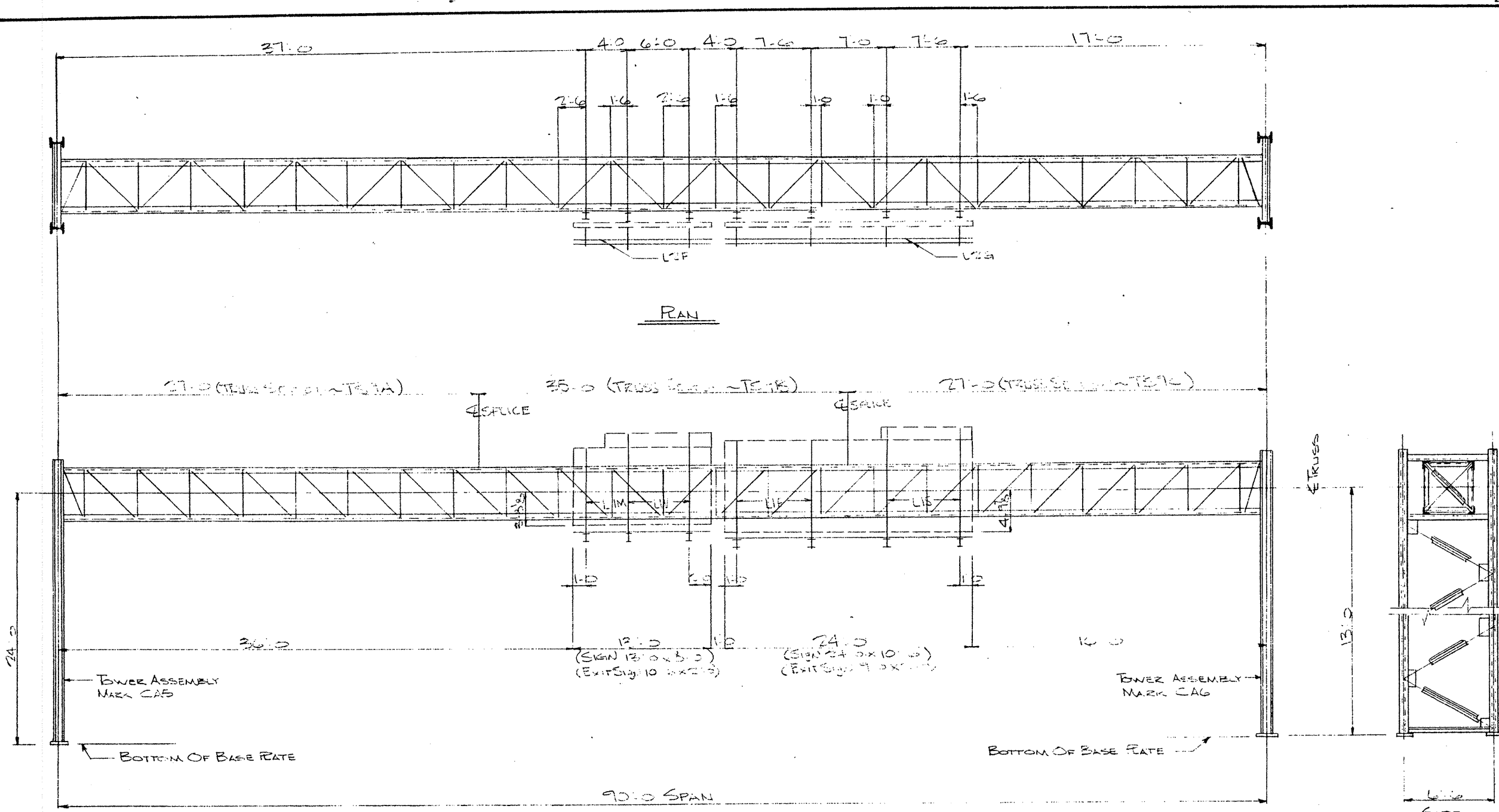
REV REVISION DESCRIPTION BY DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

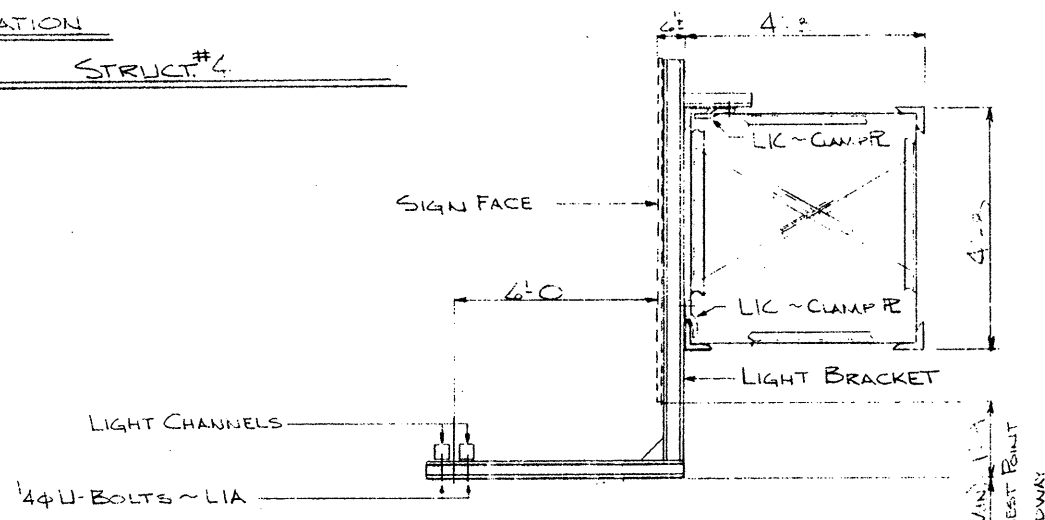
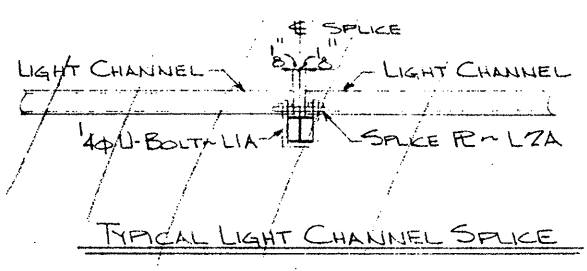
DESCRIPTION ERECTION OVERHEAD SIGN BRIDGE
STATION # 1017+00 (100'-0" SPAN)
LOCATION GUADALUPE COUNTY, TEXAS
CUSTOMER MIKA CORPORATION #824

DRAWN BY: E DATE: 1-9 HOLE DIA. (UNLESS NOTED) JOB NO. F3473
CHECKED BY: DATE: FOR APPROVAL DWG. E2
FINISH: GALV. TO SHOP SHT. OF REV

FED. RD. DIV. NO. 6 STATE TEXAS FEDERAL PROJECT NO. NH 96(2) LM SHEET NO. 15
COUNTY GUADALUPE COUNTY NO. 006 SECT. 06 JOB HIGHWAY NO. 1433



SUMMARY OF MATERIALS		
MARK	QTY	DESCRIPTION
CAS ONE		TOWER ASSEMBLY (LEFT)
CAG ONE		TOWER ASSEMBLY (RIGHT)
TS 9A ONE		TRUSS SECTION ASSEMBLY
TS 1B ONE		TRUSS SECTION ASSEMBLY
TS 1C ONE		TRUSS SECTION ASSEMBLY
TIE 8		TRUSS SPICE ANGLES
LIA 14		1/4" U-BOLT
LIC 14		BRACKET CLAMP PLATES
LIM ONE		LIGHT BRACKETS
LIN 2		
LIP 2		
LIS 2		
LZA		SPICE PLATES
LZF 2		LIGHT CHANNELS
LZB 2		
W ONE		WALKWAY & HANDRAIL ASSEMBLY
WIG		1/2" U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	3/4" X 24 GMB W/HH&HN	ASTM TRUSS TO
7	3/4" HARD WASHERS	A325 TOWER
165	3/4" X 1/2" GMB W/HH&HN	ASTM TRUSS
165	3/4" HARD WASHERS	A325 SPICE
125	1/2" X 1/2" GMB W/HH&HN	ASTM LIGHT
125	1/2" STD GALV. WASHERS	A307 BRACKETS
125	1/2" GALV. BEV. WASHERS	TRUSS
3	3/4" X 1/2" HEX HD. CAP SCREWS	
3	3/4" CLAMPING NUTS	ASTM LIGHT
3	3/4" STD GALV. WASHERS	A307 FIXTURE
1	1/2" THK X 2" W NEOPRENE PAD	ACCESS.



FEB 2 1998

BID ITEM # 650 ITEM # 3

APPROVAL PRINT

REV	REVISION	DESCRIPTION	BY	DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

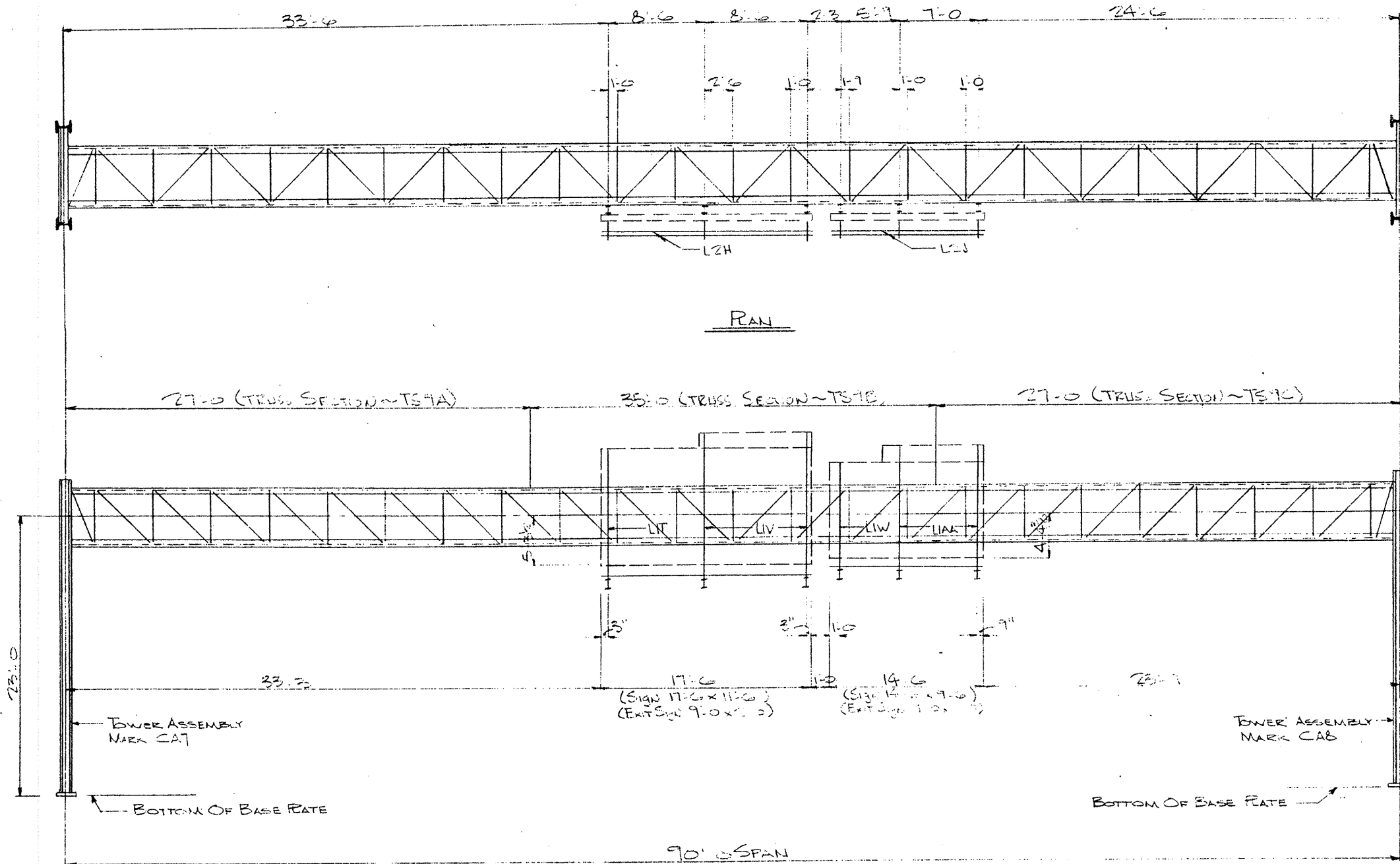
DESCRIPTION: ERECTION OVERHEAD SIGN BRIDGE
STATION: # 10180+25 (90'-0" SPAN)
LOCATION: GARLAND COUNTY, TEXAS

CUSTOMER: MIKA CORPORATION #304

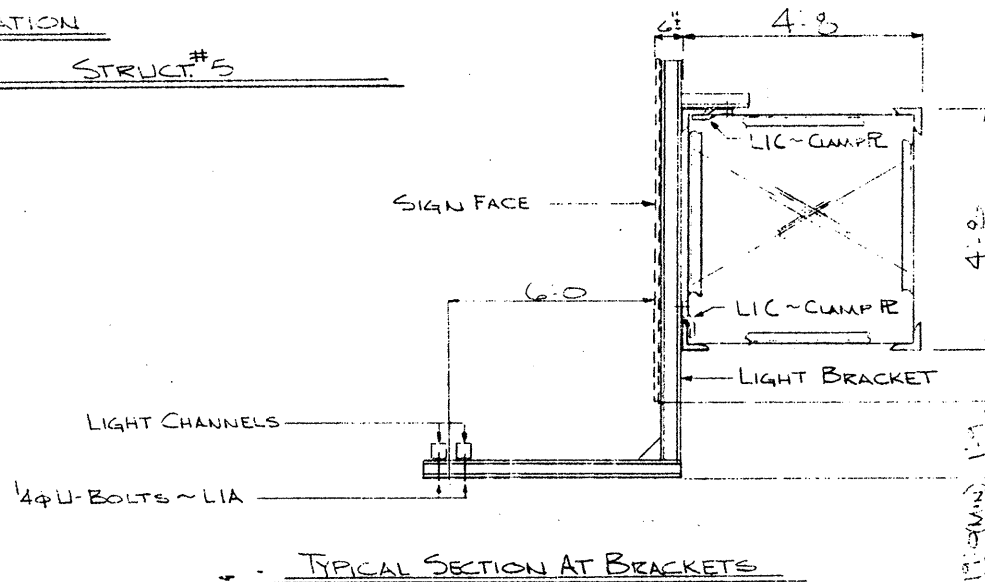
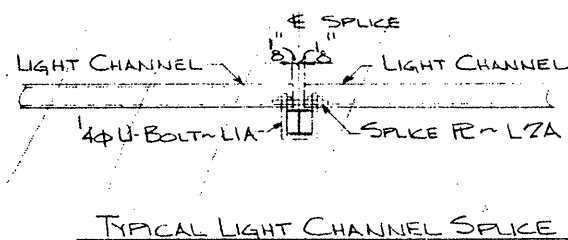
DRAWN BY: E DATE: 1-13-98 HOLE DIA (UNLESS NOTED): JOB NO: F-2472
CHECKED BY: DATE: FOR APPROVAL: DWG: E-3
FINISH: GALV. TO SHOP: SHT - OF - REV

FED. RD. DIV. NO. 60	STATE TEXAS	FEDERAL PROJECT NO. NH 976(3) IM	SHEET NO. 15
STATE DIST. NO. 15	COUNTY GARLAND	CONTRACT NO. 06 023	JOB NO. 1435

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF DETAIL



ELEVATION
STATION # 10172+70 STRUCT. # 5



SUMMARY OF MATERIALS		
MARK	QTY	DESCRIPTION
CA7	ONE	TOWER ASSEMBLY (LEFT)
CA8	ONE	TOWER ASSEMBLY (RIGHT)
TS9A	ONE	TRUSS SECTION ASSEMBLY
TS9B	ONE	TRUSS SECTION ASSEMBLY
TS9C	ONE	TRUSS SECTION ASSEMBLY
TIIS	8	TRUSS SPICE ANGLES
LIA	12	4x U-BOLT
LIC	12	BRACKET CLAMP RATES
LIT	212	LIGHT BRACKETS
LIV	2	
LIW	212	
LIAA	2	
L2A		SPLICE RATES
L2H	2	LIGHT CHANNELS
L2J	2	
W	ONE	WALKWAY & HANDRAIL ASSEMBLY
WIG		1/2x U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	34x 1/4 GMB/HHEHN	ASTM TRUSS TO
9	34 HARD WASHERS	A325 TOWER
105	34x 1/4 GMB/HHEHN	ASTM TRUSS
105	34 HARD WASHERS	A325 SPLICE
25	1/2x 3/4 GMB/HHEHN	ASTM LIGHT
25	1/2 STD GALV. WASHERS	A307 BRACKETS
25	1/2 GALV. BEV. WASHERS	TRUSS
34	1/4 HEX HD. CAP SCREWS	ASTM LIGHT
34	CLAMPING NUTS	A307 LIGHT
34	STD GALV. WASHERS	A307 FIXTURE
8	1/4x 1/2 NEOPRENE PAD	ACCESS

SIDE VIEW

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF J.L.A.L.

BID ITEM # 650 ITEM # 3

APPROVAL PRINT

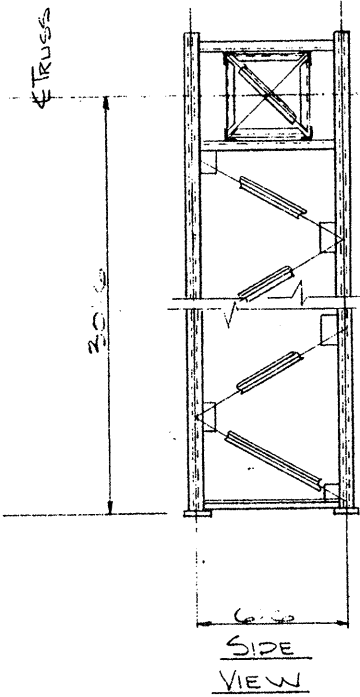
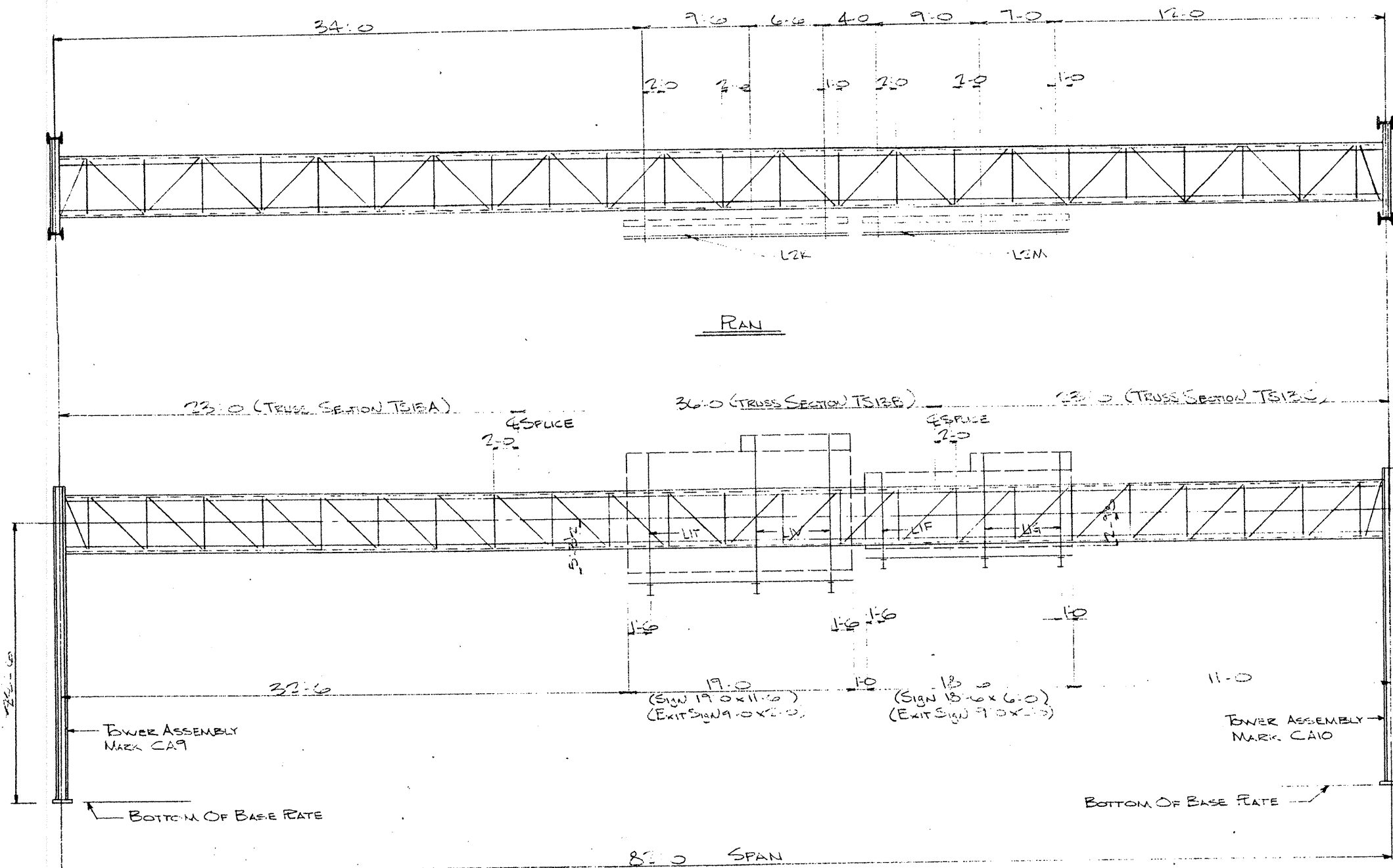
REV REVISION DESCRIPTION BY DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

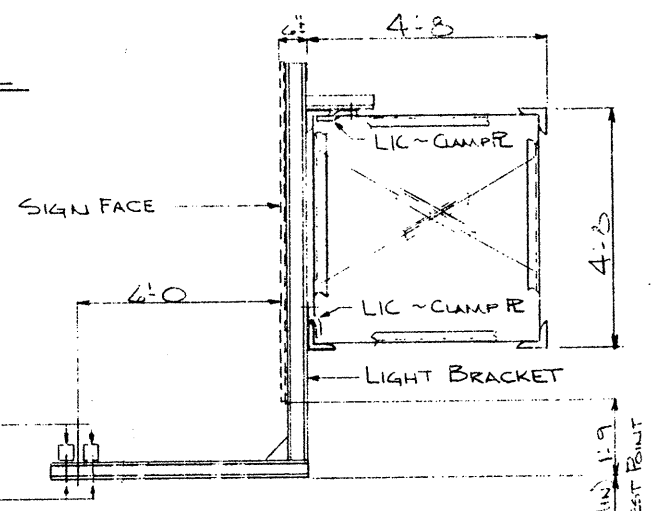
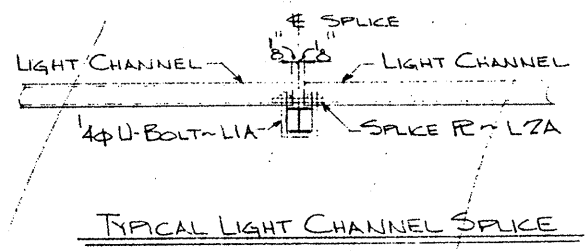
DESCRIPTION ERECTION ~ OVERHEAD SIGN BRIDGE
STATION # 10192+70 (90'-0" SPAN)
LOCATION GUADALUPE COUNTY, TEXAS
CUSTOMER MICA CORPORATION #804

DRAWN BY R DATE 1-78 HOLE DIA (UNLESS NOTED) F-2472
CHECKED BY DATE FOR APPROVAL DWG E4
FINISH GALV. TO SHOP SHT - OF - REV

FED RD DIST NO 0 STATE TEXAS COUNTY NH COUNTY CONT SECT JOB HIGHWAY NO 15 GUADALUPE 0016 0 0 023 1025



SUMMARY OF MATERIALS		
MARK	QTY	DESCRIPTION
CA9	ONE	TOWER ASSEMBLY (LEFT)
CA10	ONE	TOWER ASSEMBLY (RIGHT)
TS12A	ONE	TRUSS SECTION ASSEMBLY
TS12B	ONE	TRUSS SECTION ASSEMBLY
TS12C	ONE	TRUSS SECTION ASSEMBLY
TAS	2	TRUSS SPICE ANGLES
LIA	12	1/4" U-BOLT
LIC	12	BRACKET CLAMP RATES
LIT	ONE	LIGHT BRACKETS
LIV	2	LIGHT BRACKETS
LIF	ONE	LIGHT BRACKETS
LIS	2	LIGHT BRACKETS
LZA	2	SPICE RATES
LZK	2	LIGHT CHANNELS
W	ONE	WALKWAY & HANDRAIL ASSEMBLY
WIG	2	1/2" U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	3/4" x 2	GMB/HHEHN { ASTM } TRUSS TO TOWER
9	3/4" HARD WASHERS	{ A325 }
165	3/4" x 1/4" GMB/HHEHN	{ ASTM } TRUSS
165	3/4" HARD WASHERS	{ A325 } SPICE
25	1/4" x 1/4" GMB/HHEHN	{ ASTM } LIGHT
25	1/4" STD. GALV. WASHERS	{ A307 } BRACKETS
25	1/4" GALV. BEV. WASHERS	{ A307 } TRUSS
34	3/4" x 1/4" HEX HD. CAP SCREWS	{ ASTM } LIGHT
34	CLAMPING NUTS	{ A307 } BRACKETS
24	STD. GALV. WASHERS	{ A307 } FIXTURE
18	1/2" x 1/2" NEOPRENE PAD	{ A307 } ACCESS.



FED. RD. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 98 (2) IM	1
STATE DIST. NO.	COUNTY	CONT. SECT.	JOB
15	GUADALUPE	00100	0022

Bid Item # 650

APPROVAL

PRINT

REV. REVISION DESCRIPTION BY DATE

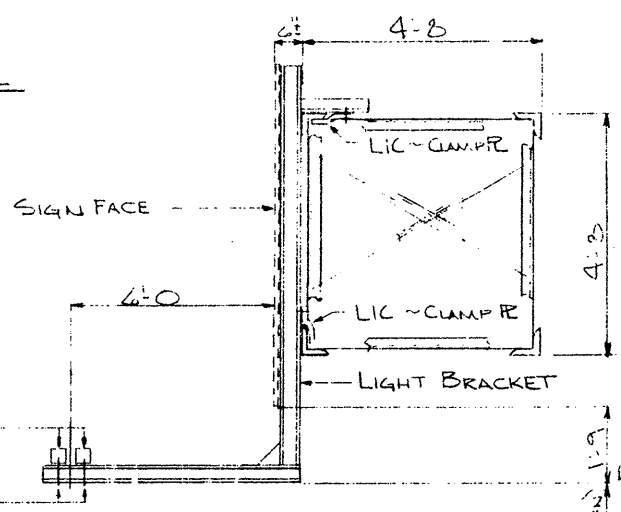
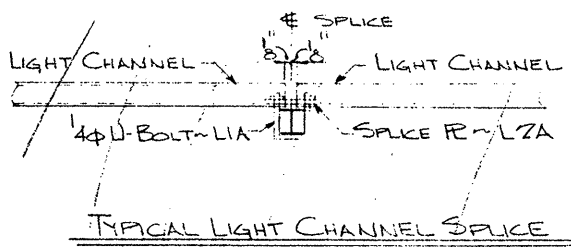
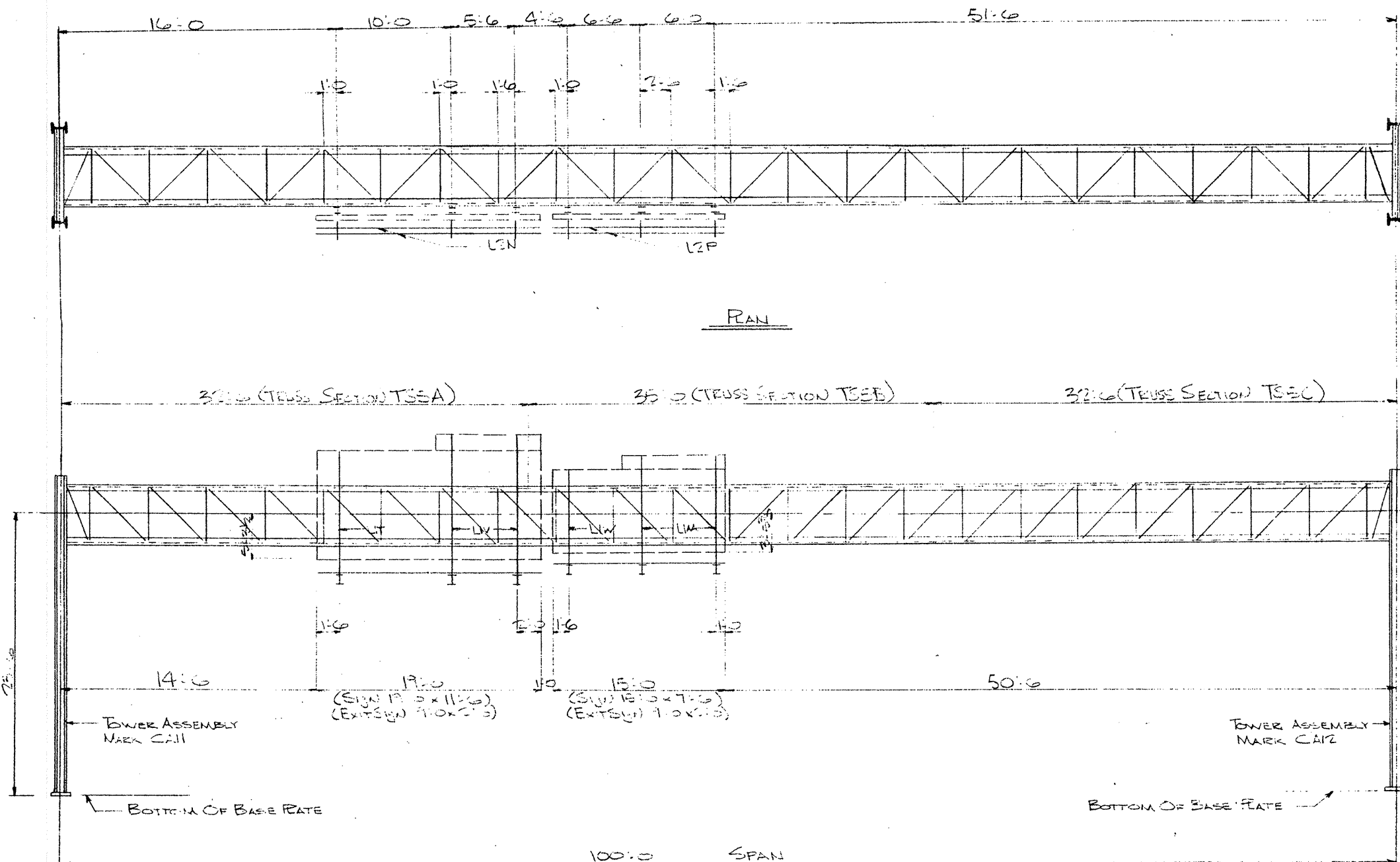
FALCON STEEL COMPANY
FORT WORTH KAUFMAN

DESCRIPTION: Erection of Overhead Sign Bridge
STATION # 10197+22 (82'-0" SPAN)
LOCATION: GUADALUPE COUNTY, TEXAS

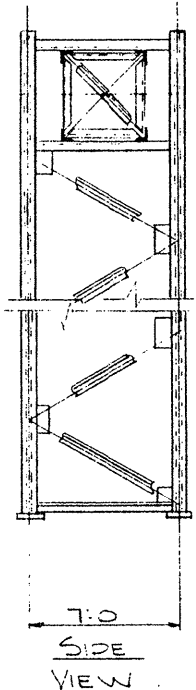
CUSTOMER: MICA CORPORATION # 804

DRAWN BY: E DATE: 1-98 HOLE DIA. (UNLESS NOTED):
CHECKED BY: DATE: FOR APPROVAL: DWG. E5
FINISH: GALV. TO SHOP: SHT. OF: REV.

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF DETAIL.



SUMMARY OF MATERIALS		
MARK	RS	DESCRIPTION
CALL	ONE	TOWER ASSEMBLY (LEFT)
CALL	ONE	TOWER ASSEMBLY (RIGHT)
TSEA	ONE	TRUSS SECTION ASSEMBLY
TSEB	ONE	
TSEC	ONE	
TCS	8	TRUSS SPICE ANGLES
LIA	12	4 U-BOLT
LIC	12	BRACKET CLAMP PLATES
LIT	ONE	LIGHT BRACKETS
LIV	2	
LW	ONE	
LIAA	2	
LZA		SPICE PLATES
LZN		LIGHT CHANNELS
LZP		
W	ONE	WALKWAY & HANDRAIL ASSEMBLY
WLB		1/2 U-BOLT ASSEMBLY FOR WALKWAY
FIELD BOLTS (3% ADDED)		
9	1/4 x 2 1/2 GMB/HHEHN	ASTM TRUSS TO
9	1/4 HARD WASHERS	A325 TOWER
165	3/4 x 2 GMB/HHEHN	ASTM TRUSS
165	3/4 HARD WASHERS	A325 SPICE
21	2 1/2 x 3/4 GMB/HHEHN	ASTM LIGHT
21	2 1/2 STD GALV. WASHERS	A307 BRACKETS
21	2 1/2 GALV. BEV. WASHERS	TRUSS
24	3/4 x 1 1/4 HEX HD. CAP SCREWS	ASTM LIGHT
24	3/4 CLAMPING PLATES	A307 LIGHT
24	3/4 STD GALV. WASHERS	A307 FIXTURE
8	1/2 THK x 2' 0" NEOPRENE PAD	ACCESS



TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN SECTION
MAR 04 1998
APPROVAL: [Signature] DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF THE DESIGN.

BID ITEM # 650

ITEM # 4

APPROVAL PRINT

REV	REVISION	DESCRIPTION	BY	DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

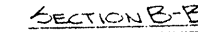
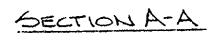
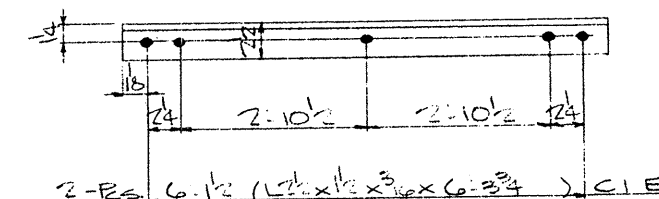
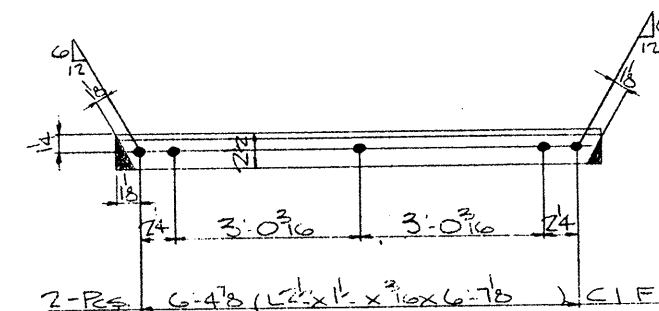
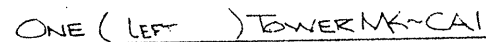
DESCRIPTION: Erection of Overhead Sign Bridge
STATION # 102+10.0 (100'-0" SPAN)
LOCATION: GUADALUPE COUNTY, TEXAS
CUSTOMER: MICA CORPORATION #A34

DRAWN BY	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
B	2-23-98		F3473

CHECKED BY	DATE	FOR APPROVAL	DWG.
			E6

FINISH	TO SHOP	SHT. OF	REV
GALV.			

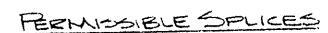
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 98(2) LM	1
STATE DIST. NO.	COUNTY	CONT. SECT. JOB	HIGHWAY
15	GUADALUPE	1000 00 003	1-13



SHOP BOLTS (NET.)

51	- 5/8" x 1 1/4" H.S.B. W/ H.N.
51	- 5/8" HARDENED WASH.
7	- 1/4" THK. GALV. RF F/ 1/2"

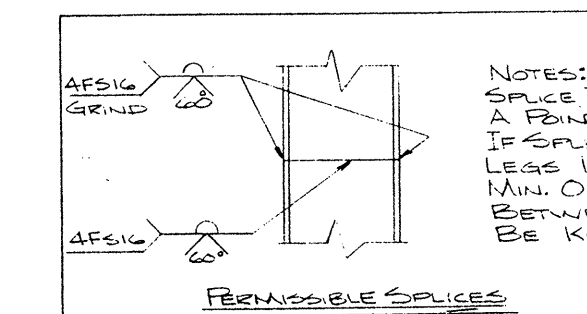
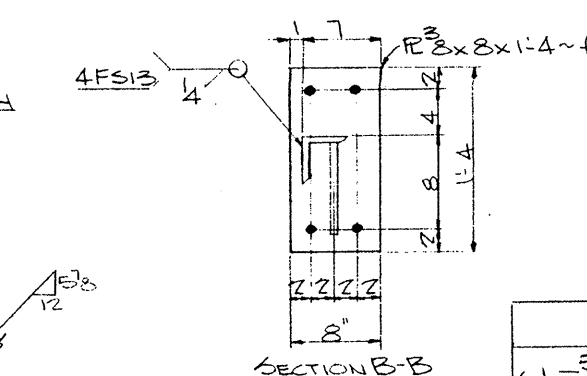
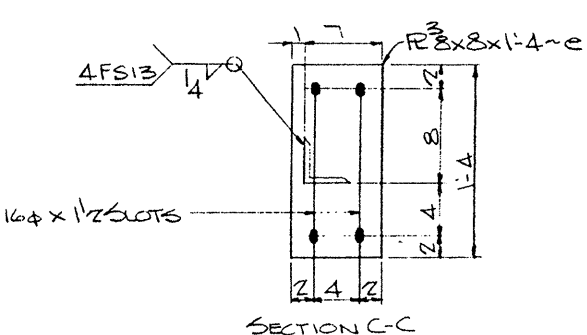
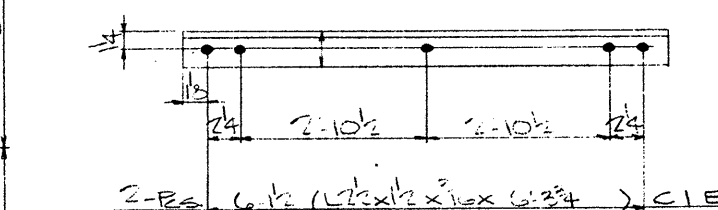
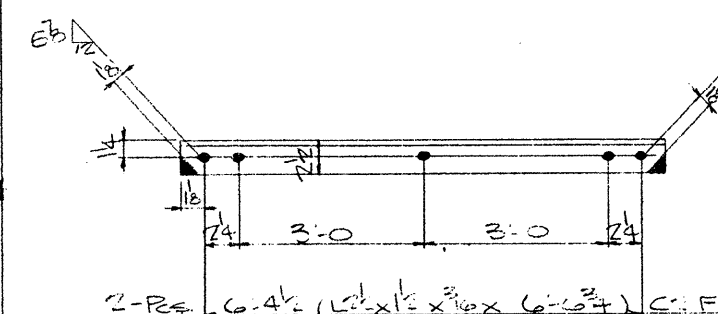
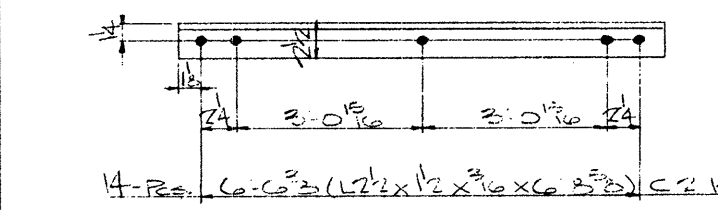
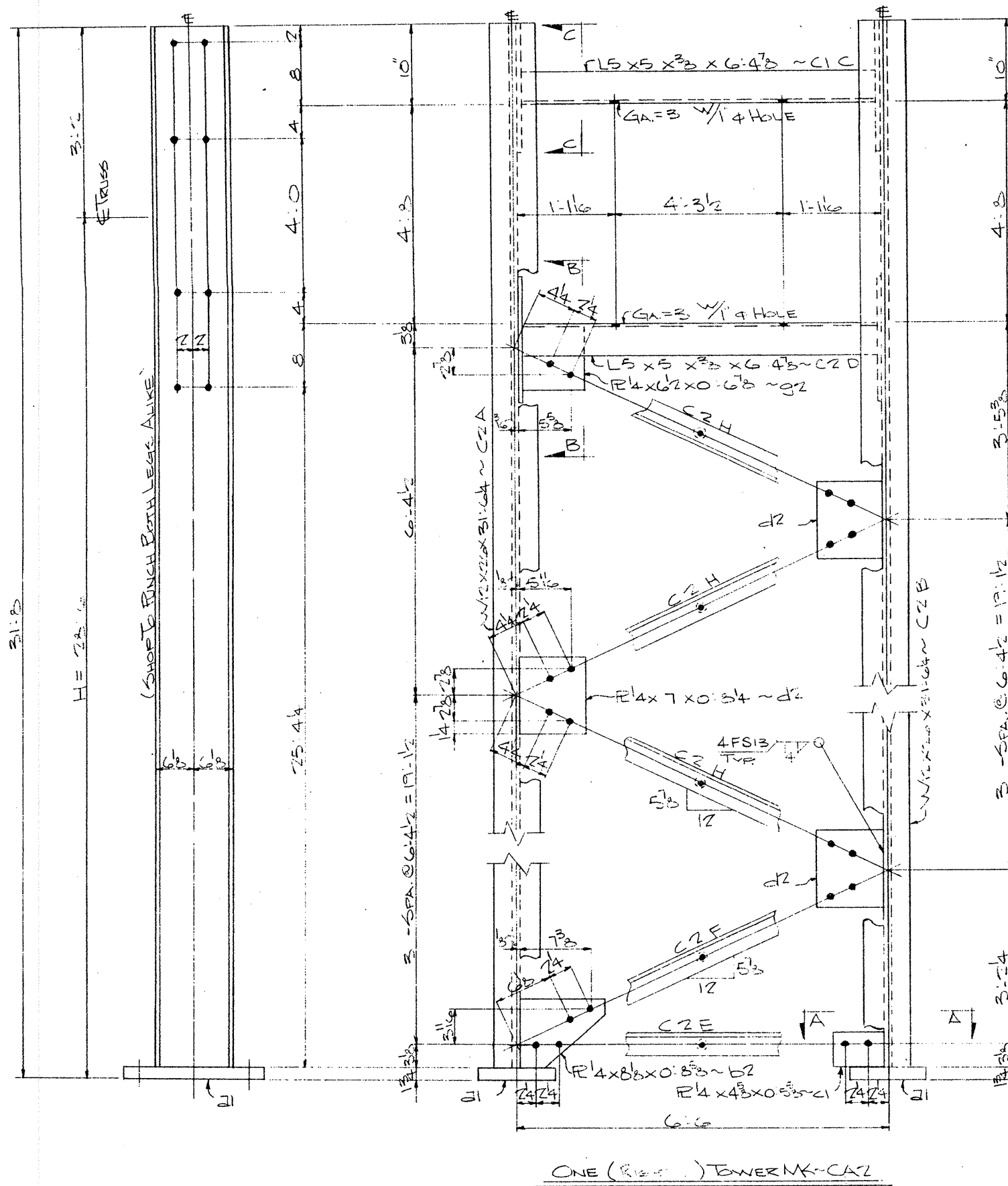
MATERIAL LISTED FOR
ONE STRUCTURE
MAKE-ONE - TIMES



FED RD DIV NO	STATE	FEDERAL PROJECT NO	SHEET NO	DRAWN BY E	DATE 1-13	ROLE OR TITLE OF PERSON F3413
6	TEXAS	NH-183-1	—	CHECKED BY	DATE	FOR APPROVAL DWG CA1
STATE DIST NO	COUNTY	CONT.	SECT	JOB	HIGHWAY NO	FINISH TO SHOP
15	GRADALIFE	0006	03	033	1425	SHT — OF — RE

BID ITEM # 650		FEB 2 1988		ITEM # ONE	
APPROVAL					
PRINT					
REV	REVISION	DESCRIPTION	BY	DATE	
FALCON STEEL COMPANY					
FORT WORTH			KAUFMAN		
DESCRIPTION (LEFT TWO)					
OVERHEAD SIGN BRIDGE TOWER					
LOCATION GUADALUPE COUNTY, TEXAS					
CUSTOMER MIKA CORPORATION #824					
DRAWN BY: E	DATE 1-23	MOLE DIA (UNLESS NOTED)		JOB NO F3473	
CHECKED BY:	DATE	FOR APPROVAL		DWG. CAI	
FINISH GALV	TO SHOP		SHT -- OF --		RE

EVEN PANELS Z-BOLT CONN.



NOTES:
SPICE TO BE LOCATED AT
A POINT ABOVE H/2.
IF SPICE OF BOTH TOWER
LEGS IS NECESSARY, A
MIN. OF 1'-0" SEPARATION
BETWEEN SPLICES SHALL
BE KEPT.

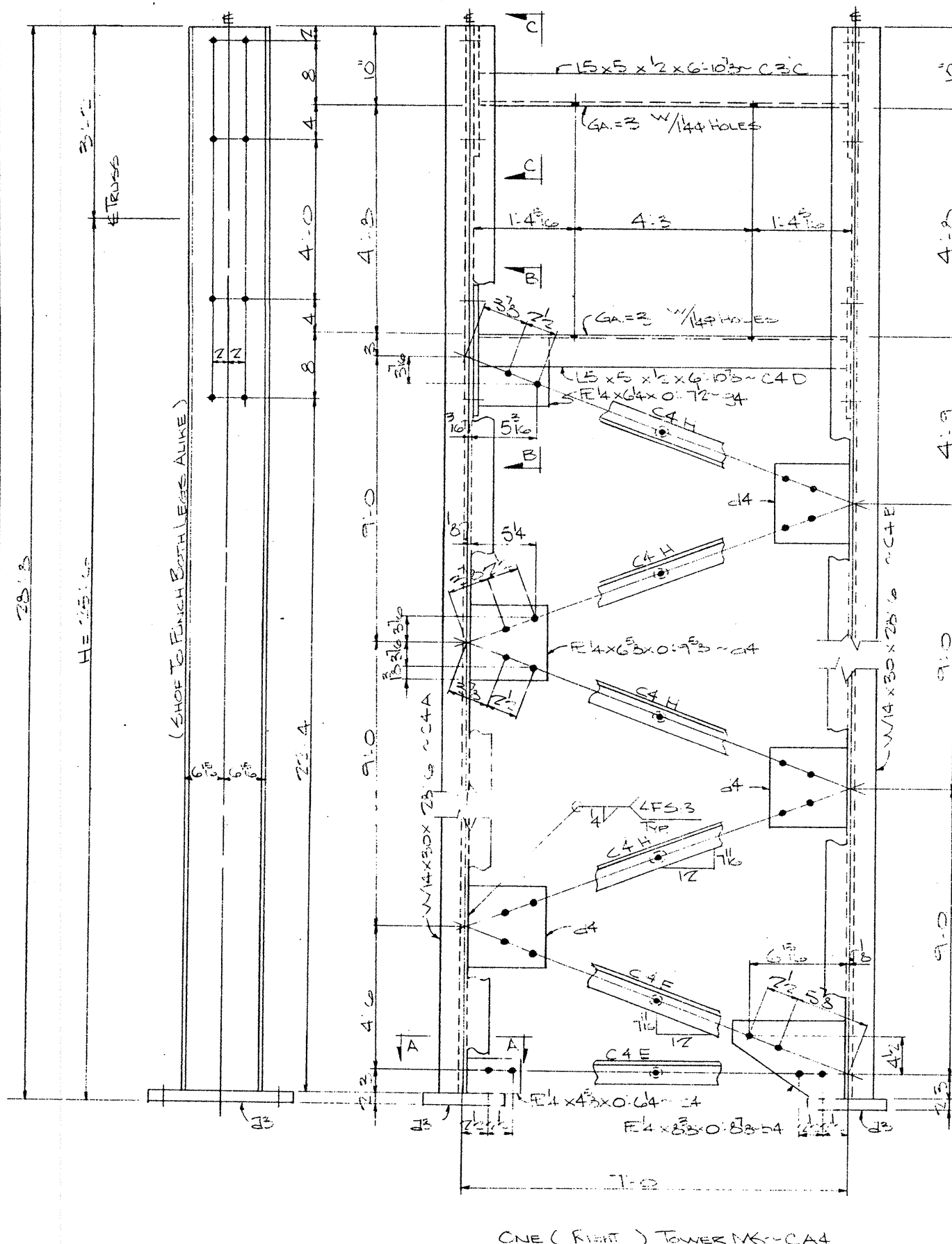
MATERIAL-ASTM-A36
BOLTS -ASTM-A325
HALES -1/2"

FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 16.211	1
STATE DIST. NO.	COUNTY	CONT.	SECT.
15	GUADALUPE	2010	02
FINISH	TO SHOP	DATE	REV.
GALV		1-23	

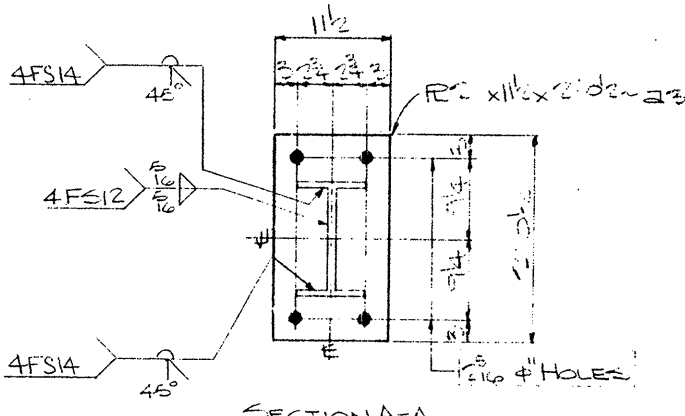
REQ'D LIST	MARK	QTY.
C2A	ONE	
C2B	ONE	
d1	2	
b2	ONE	
C1	ONE	
d2	7	
C1C	ONE	
c1	2	
C2D	ONE	
f1	2	
g1	ONE	
C1E	2	
C2F	2	
C2H	14	

SHOP BOLTS (NET.)	61 - 5/8" x 1 1/4" H.S.B. W/H.N.
61 - 5/8" HARDENED WASH.	7 - 4" THK. GALV. RF 5/8"
MATERIAL LISTED FOR ONE STRUCTURE MAKE - - TIMES	

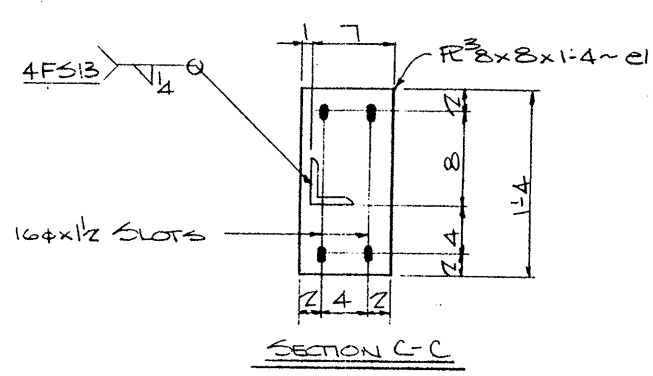
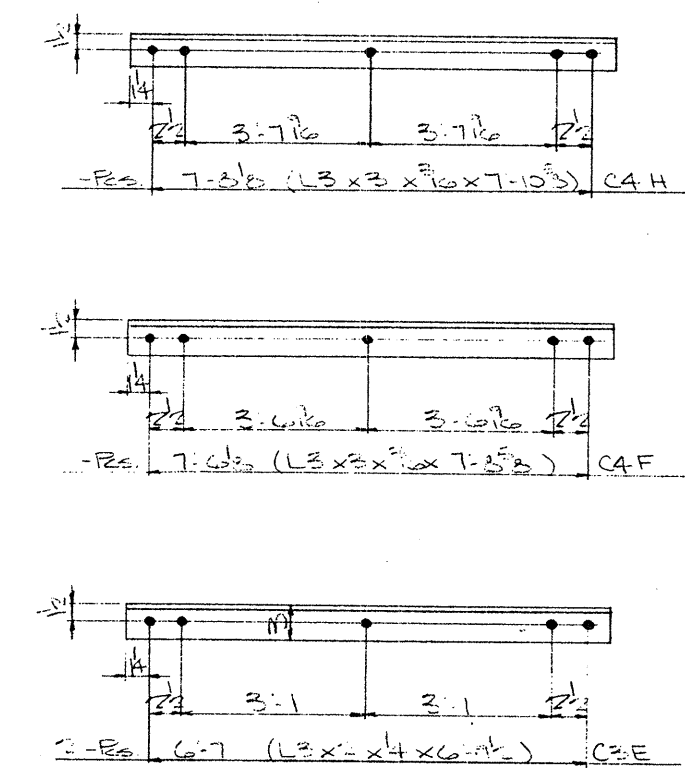
APPROVAL	PRINT	BY	DATE



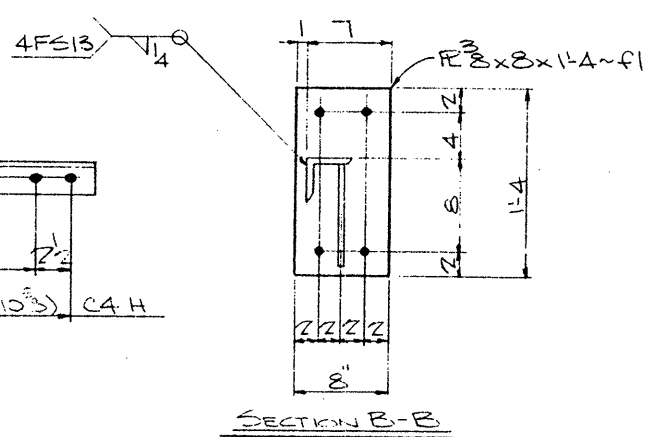
CNE (RIGHT) TOWER MK-CA4



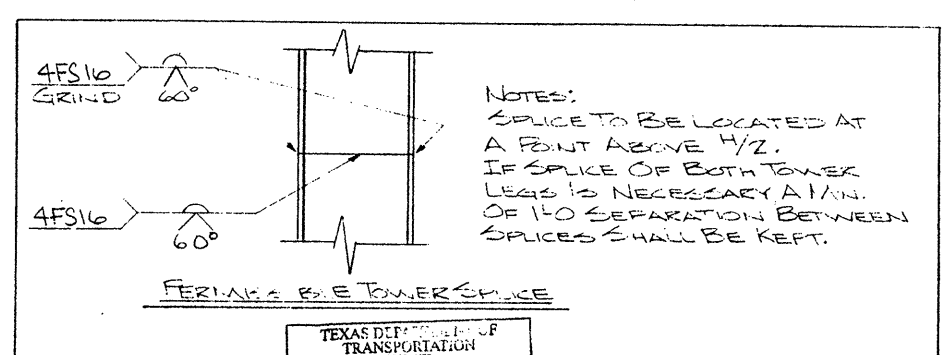
SECTION A-A



SECTION C-C



SECTION B-B



NOTES:
SPICE TO BE LOCATED AT
A POINT ABOVE $H/2$.
IF SPIKE OF BOTH TOWER
LEGS IS NECESSARY A 1/4 IN.
OF 1/2 SEPARATION BETWEEN
SPICES SHALL BE KEPT.

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

FEB 2 1998

APPROVAL
POINT

REV	REVISION	DESCRIPTION	BY	DATE
<h1>FALCON STEEL COMPANY</h1> <p>FORT WORTH KAUFMAN</p>				
DESCRIPTION		(RIGHT TWR.)		
LOCATION		OVERHEAD SIGN BRIDGE TOWER		
CUSTOMER		SHADALIFE COUNTY, TEXAS		
DRAWN BY		DATE	HOLE DIA (UNLESS NOTED)	JOB NO
F.		1-78		F3473
CHECKED BY		DATE	FOR APPROVAL	DWG
				CA4
FINISH		TO SHOP		REV
PAINT				

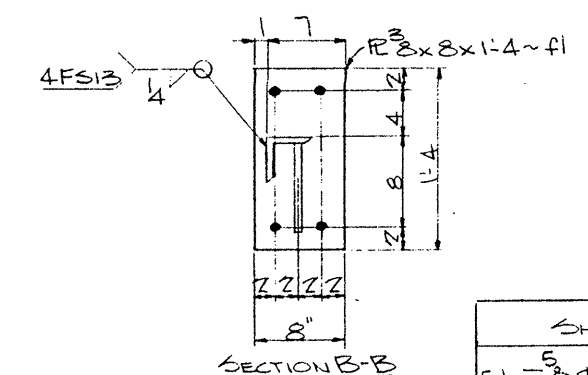
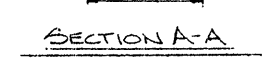
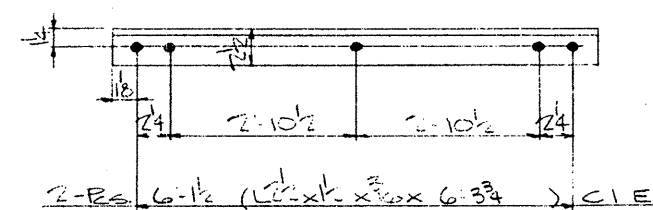
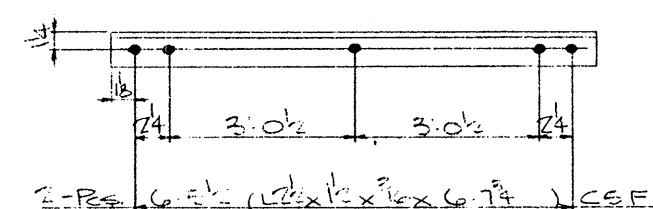
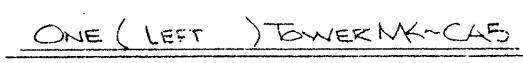
REQ'D LIST	
MARK	QTY.
C4A	ONE
C4B	ONE
33	2
b4	ONE
C3	ONE
d4	4
C3C	ONE
e1	2
C4D	ONE
f1	2
34	ONE
C3E	2
C4F	2
C4H	8

SHOP BOLTS (NET.)

46 - $\frac{3}{4}$ " ϕ x $\frac{1}{2}$ " H.S.B. W/ H.N.
46 - $\frac{3}{4}$ " ϕ HARDENED WASH
6 - $\frac{1}{4}$ " 4 THK R.F. $\frac{1}{4}$ " ϕ BOLTS
MATERIAL LISTED FOR ONE STRUCTURE MAKE - ONE - TIMES

MATERIAL - ASTM A26
BOLTS - ASTM A270
HOLE - 13" ϕ
16" ϕ

FED RD DIV NO		STATE	FEDERAL PROJECT NO		SHEET NO	DRAWN BY E	DATE 1-98	HOLE DIA (UNLESS NOTED)	JOB NO F3473
6		TEXAS	NH 763 IM		—	CHECKED BY	DATE	FOR APPROVAL	DWG CA4
STATE DIST NO	COUNTY	CONT	SECT	JOB		HIGHWAY NO	TO SHOP		SHT — OF —
15	GLADWIN CO	100	100	100		100	FINISH		REV



4FSIG
GRIND

4FSIG

NOTES:
SPICE TO BE LOCATED AT
A POINT ABOVE $H/2$.
IF SPICE OF BOTH TOWER
LEGS IS NECESSARY, A
MIN. OF 1'-0" SEPARATION
BETWEEN SPLICES SHALL
BE KEPT.

PERMISSIBLE SPLICES
TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
DESIGN DIVISION-BRIDGE SECTION

MAR 04 1998

LOCATION
STA# 101B+2

APPROVAL OF THIS DRAWING NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL.

RIP Item # 610

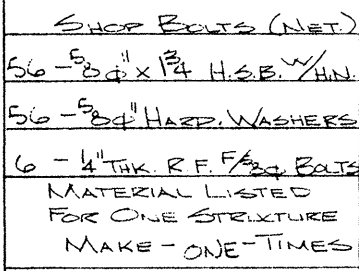
FEB 2 1998

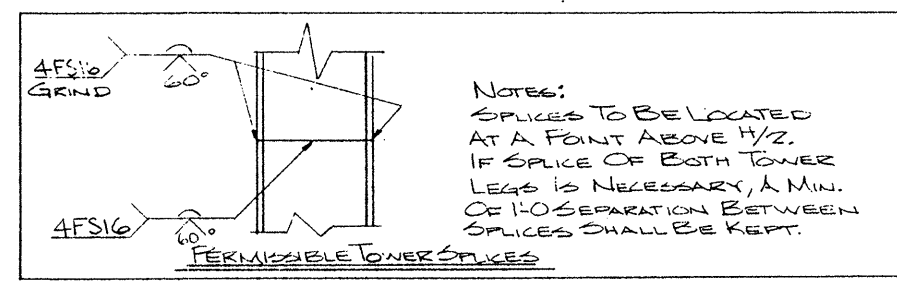
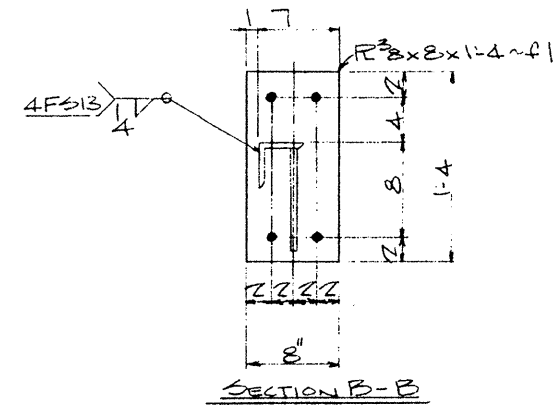
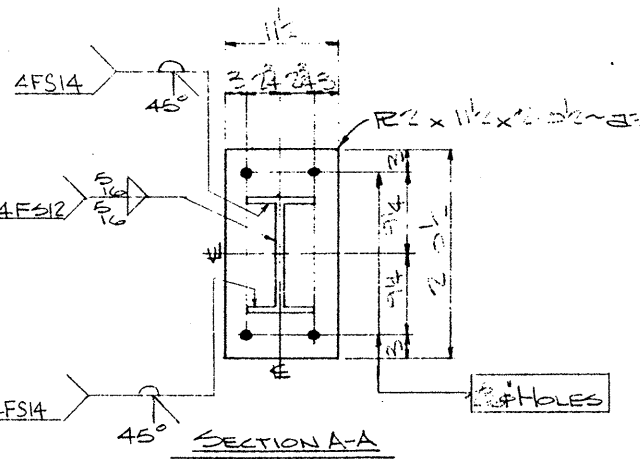
ITEM # 2

MATERIAL - ASTM-A36
BOLTS - ASTM-A325
HOLES - 11" ϕ
16" ϕ

FED. RD. DIST. NO.										STATE		FEDERAL PROJECT NO.						SHEET NO.		CUSTOMER				MICA CORPORATION #324									
6										TEXAS		NH 763 IM								DRAWN BY		E		DATE		1-93		MOLE DIA. (UNLESS NOTED)		JOB NO		F 3473	
STATE DIST. NO.				COUNTY				CONT.		SECT.		JOB		HIGHWAY NO.		CHECKED BY						DATE		FOR APPROVAL		DWG		CA5					
15				GALATHEE				006		02		533		1473		FINISH				GALV				TO SHOP		SHT. — OF —		REV					

REQ'D LIST	
MARK	QTY.
C5A	ONE
C5B	ONE
J5	2
B5	ONE
C1	ONE
D5	5
C1C	ONE
E1	2
C5D	ONE
F1	2
B5	ONE
C1E	2
C5F	2
C5H	10





LOCATION
STA# 10197+22

TEXAS DEPARTMENT OF
TRANSPORTATION
APPROVED
DESIGN DIVISION, BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DESIGN DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF DETAIL

MATERIAL - ASTM A36
BOLTS - ASTM A325
HOLES - 1/2" Φ

REQ'D LIST	
MARK	QTY.
C10A	ONE
C10B	ONE
33	2
B10	ONE
C7	ONE
d10	6
C1C	ONE
E1	2
C10D	ONE
F1	2
G10	ONE
C1E	2
C10F	2
C10H	12

SHOP BOLTS (NET.)

70 - $5 \frac{1}{2}'' \times 1 \frac{1}{2}''$ H.S.B. W/H.N.

70 - $5 \frac{1}{2}''$ HARD. WASHERS

8 - $1''$ THK. R.F. $\frac{5}{8}''$ BOLT

MATERIAL LISTED
FOR ONE STRUCTURE
MAKE - ONE - TIMES

FEB 2 1998		1	
BID ITEM # 605		ITEM # 2	
APPROVAL			
REV	REVISION	DESCRIPTION	BY DATE
PRINT			
FALCON STEEL COMPANY			
FORT WORTH		KAUFMAN	
DESCRIPTION		(RIGHT TURN.)	
OVERHEAD SIGN BRIDGE TOWER			
LOCATION		GRANDVIEW COUNTY, TEXAS	
CUSTOMER		MICA CORPORATION #3024	
DRAWN BY	DATE	HOLE DIA (UNLESS NOTED)	JOB NO
JF	1-9-93		E3472
CHECKED BY	DATE	FOR APPROVAL	DWG
			CA10
FINISH	TO SHOP		SHT — OF —
GALV.			REV

FEB 2 1998 1

BID ITEM# 600

ITEM # 2

APPROVAL

PRINT

REV	REVISION	DESCRIPTION	BY	DATE
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FALCON STEEL COMPANY

FORT WORTH KAUFMAN

DESCRIPTION	(RIGHT TWR.
ONE HUNDRED AND FIFTY FEET	

LOCATION OVERHEAD SIGN BRIDGE LOWER
1000 COUNTY TEXAS

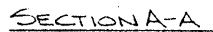
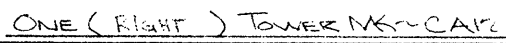
CUSTOMER AA - 1 - 1111111111

DRAWN BY	DATE	HOLE DIA (UNLESS NOTED)	JOB NO

CHECKED BY	DATE	FOR APPROVAL	DWG.
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FINISH.	TO SHOP	
---------	---------	--

GLV.	SHI — OF —
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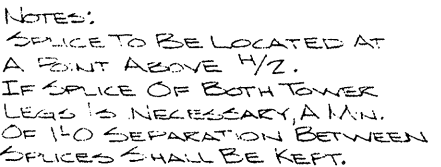
SHOP BOLTS (NET)

56- $\frac{3}{4}$ " ϕ x 2 H.S.B. W/H.N.

56- $\frac{3}{4}$ " ϕ HARDENED WASH

8 - 1" THK. R.F. $\frac{F}{4}$ " ϕ BOLTS

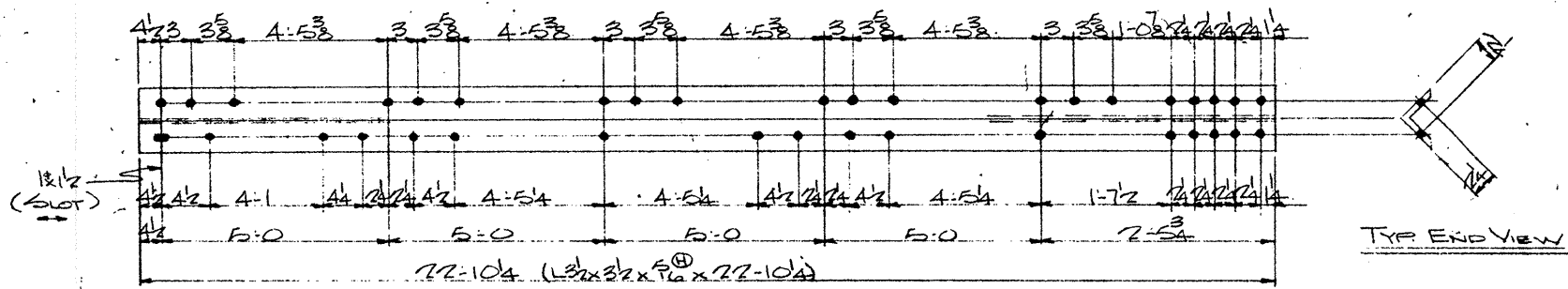
MATERIAL LISTED FOR
ONE STRUCTURE
MAKE - ONE - TIMES



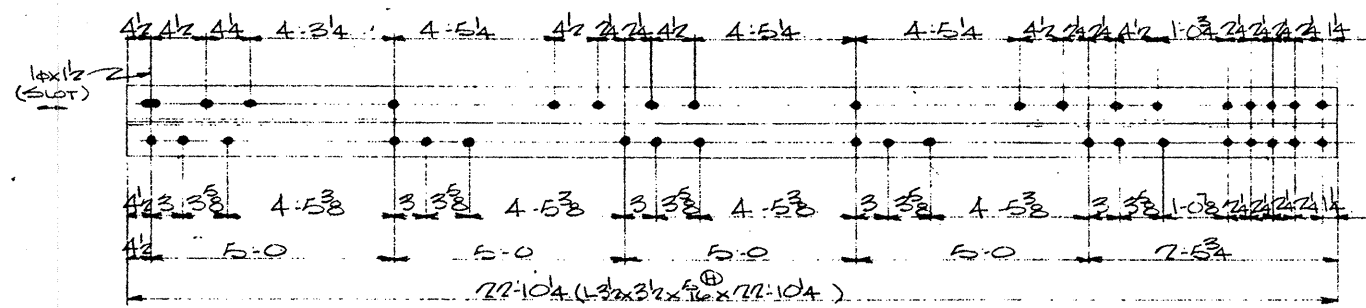
TEXAS DEPARTMENT OF TRANSPORTATION APPROVED DESIGN DIVISION BRIDGE SECTION		MAR 04 1998		1 FEB 2 1998	
LOCATION STA # 10722+2		APPROVAL OF THIS DRAWING REVIEW THE COMPLETION OF THE SPECIALTY FOR THE CORRECTNESS		BID ITEM # 602 ITEM # 4	
		APPROVAL			
		REVISION			
		DESCRIPTION			
		BY			
REV		REVISION		DATE	

FALCON STEEL COMPANY FORT WORTH KAUFMAN					
DESCRIPTION (RIGHT TWR.) OVERHEAD SIGN BRIDGE TOWER					
LOCATION GUADALUPE COUNTY, TEXAS					
CUSTOMER NVCA CORPORATION # 804					

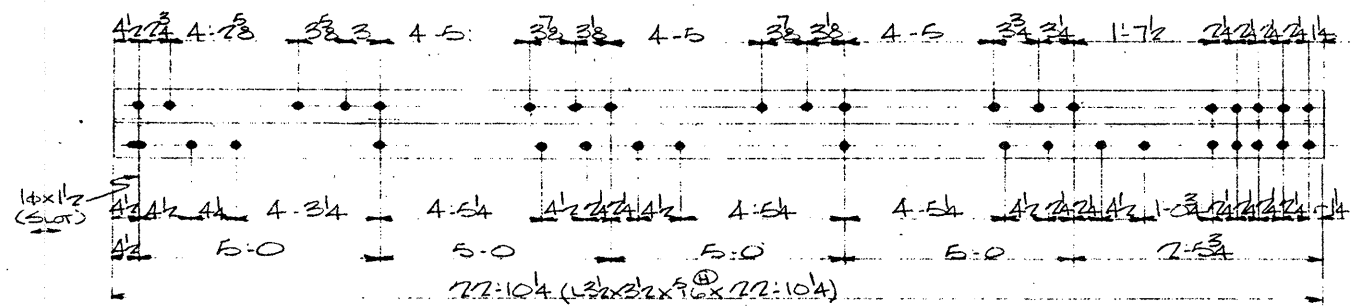
FED RD DIV NO	STATE	FEDERAL PROJECT NO	SHEET NO	DRAWN BY	DATE	HOLE DIA (UNLESS NOTED)	JOB NO
6	TEXAS	NH 76 (E) IM	—	B	1-98		F3473
STATE DIST NO	COUNTY	CONT	SECT	JOB	HIGHWAY NO	FOR APPROVAL	DWG
15	GUADALUPE	0016	005	032	1432		CA12
FINISH PAV.						TO SHOP	SHT. — OF —
						REV	



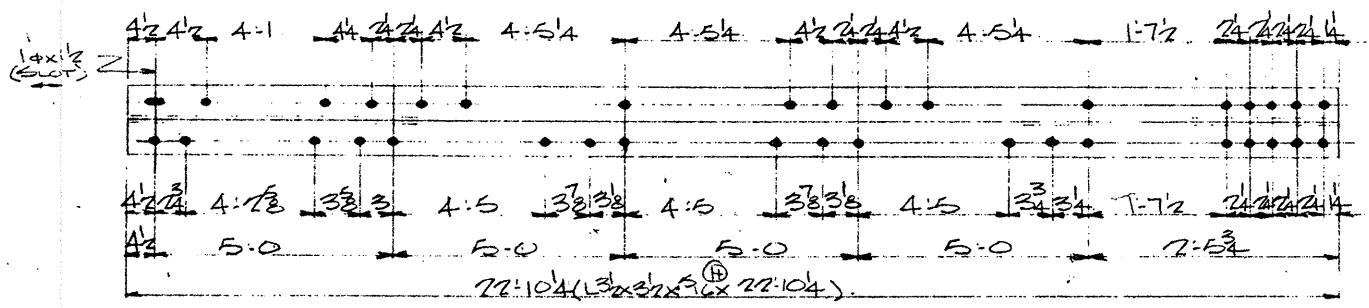
TOP CHORD
(ONE-REQ'D AS SHOWN-T2A)
(ONE-REQ'D OPP. HAND-T2A)



TOP CHORD
(ONE-REQ'D AS SHOWN-T2B)
(ONE-REQ'D OPP. HAND-T2B)



BOTTOM CHORD
(ONE-REQ'D AS SHOWN-T2C)
(ONE-REQ'D OPP. HAND-T2C)



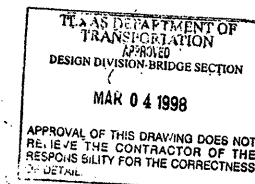
BOTTOM CHORD
(ONE-REQ'D AS SHOWN-T2D)
(ONE-REQ'D OPP. HAND-T2D)

NOTES:

1. ALL STEEL TO BE A572 HIGH STRENGTH OR EQUAL.
2. FOR TRUSS ASSN. SEE SHIT #1
3. ALL HOLES TO BE 1/16" Ø

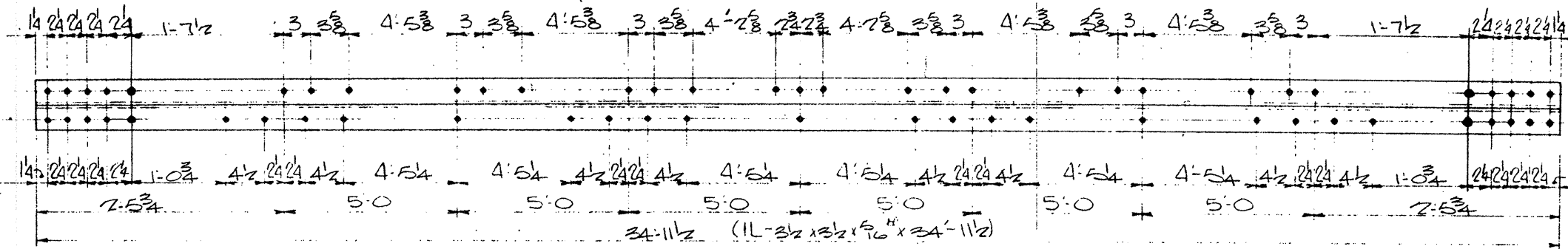
LOCATION
STA# 10151+51

FEB 2 1998

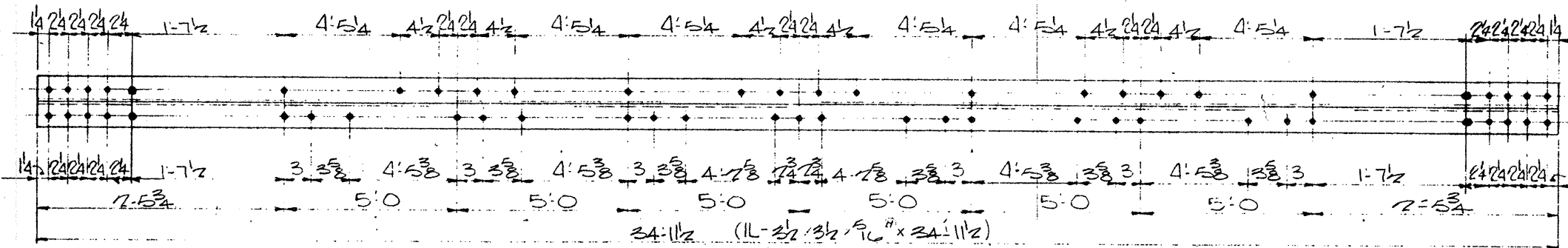


BID ITEM # 650		ITEM # ONE	
APPROVAL			
REV	REVISION	DESCRIPTION	BY DATE
FALCON STEEL COMPANY			
DESCRIPTION END SECTION CIRCLED ANGLES FOR OVERHEAD SIGN BRIDGE TEXAS			
LOCATION GUADALUPE COUNTY, TEXAS			
CUSTOMER MICA CORPORATION #804			
DRAWN BY	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
1-98	1-98		F34-3
CHECKED BY	DATE	FOR APPROVAL	DWG
			T2
FINISH	TO SHOP	SHT. OF	REV
GALV.			

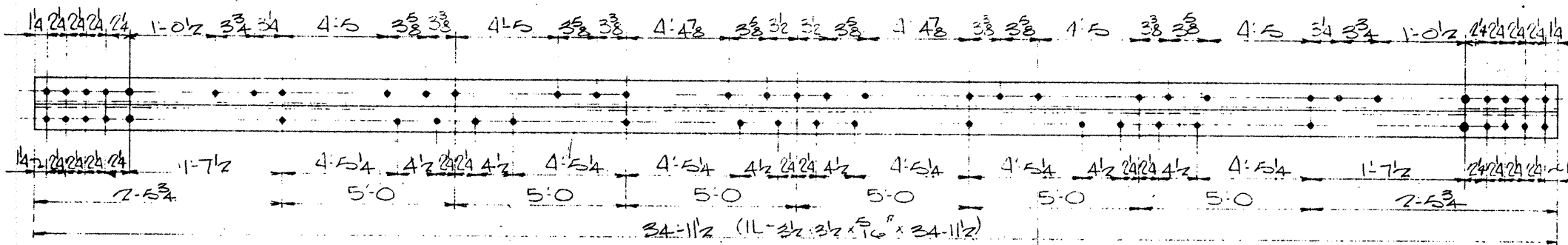
FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 9361M	
STATE DET. NO.	COUNTY	CONT.	SEG.
YS	GUADALUPE	0016	06 033
		JOB	HIGHWAY NO.
			11325



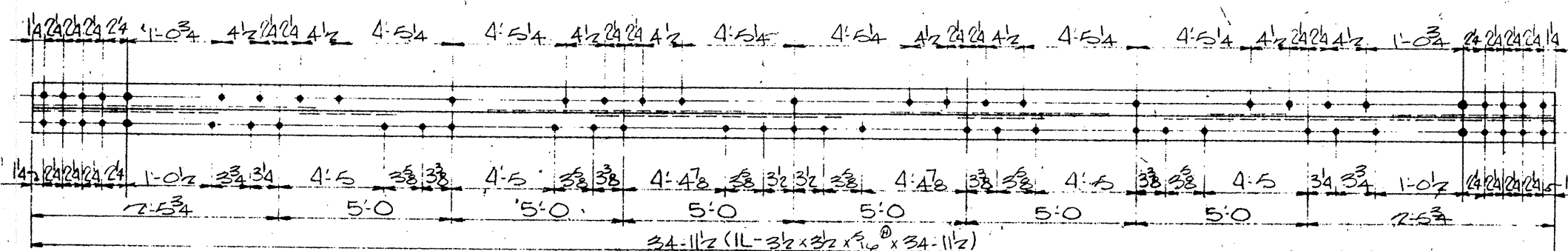
TOP CHORD
ONE - REQ'D. AS SHN. - T3 A)



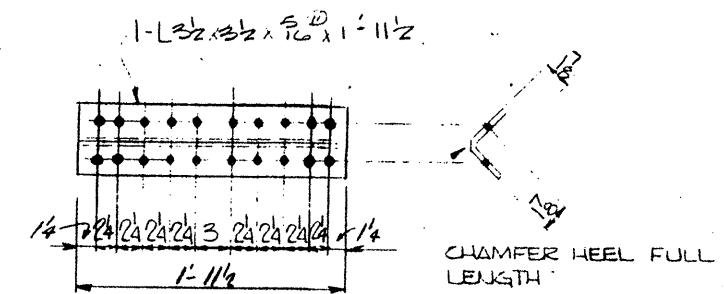
TOP CHORD
ONE REQ'D AS SHN. - T3 B)



BOTTOM CHORD
ONE - REQ'D AS SHN. - T3 C)



BOTTOM CHORD
ONE - REQ'D AS SHN. - T3 D)



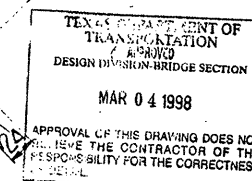
SPLICE ANGLES
(8 - REQ'D. AS SHN. - T3 S)

NOTES:

1. ALL STEEL NOTED @ TO BE HI STRENGTH 50,000 PSI COLUMBIUM BEARINGS A572 OR EQUAL.
2. FOR TRUSS ASSEMBLY SEE SHIT.

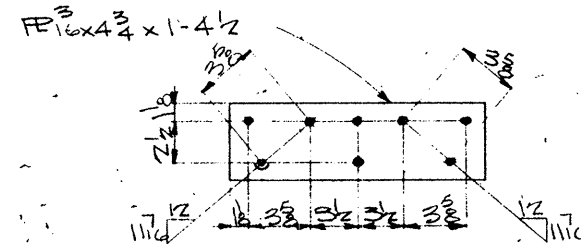
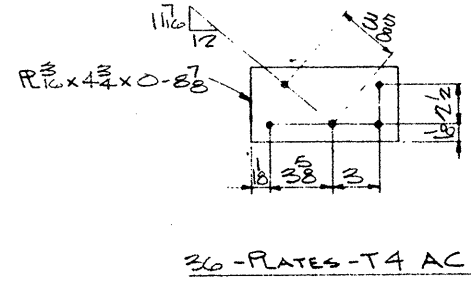
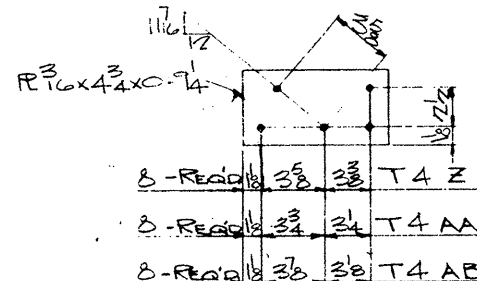
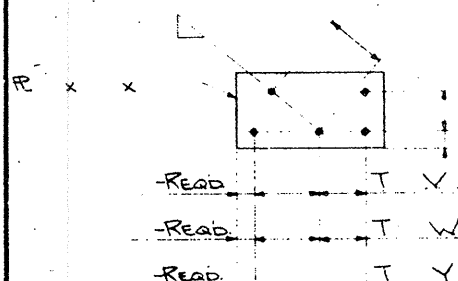
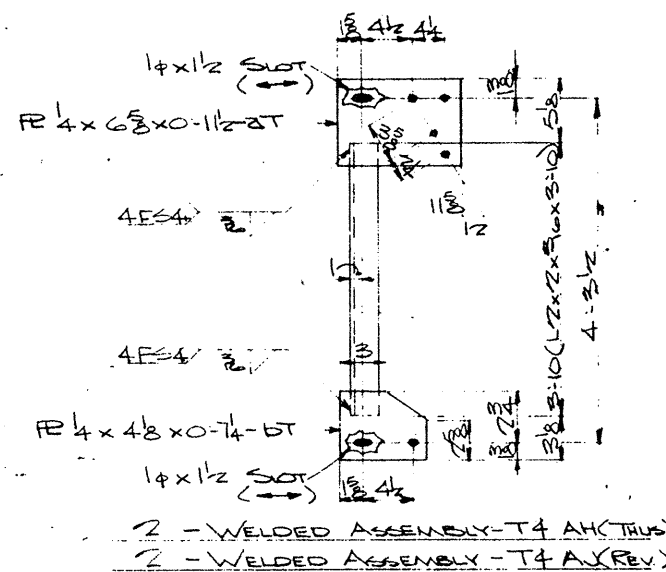
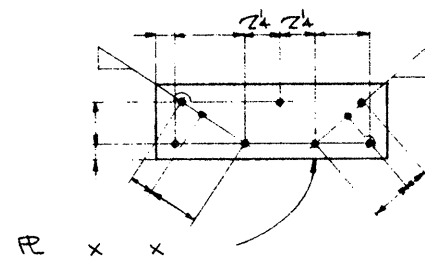
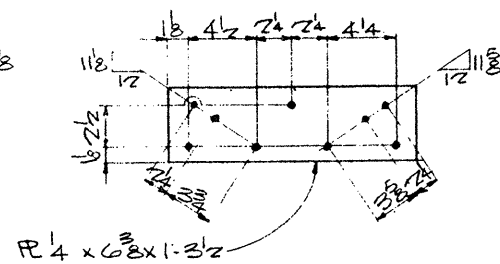
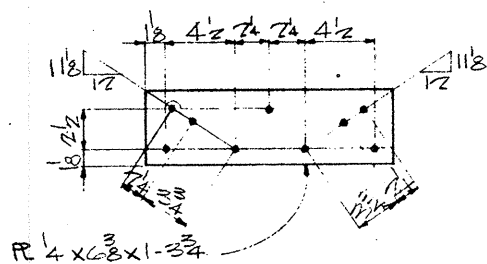
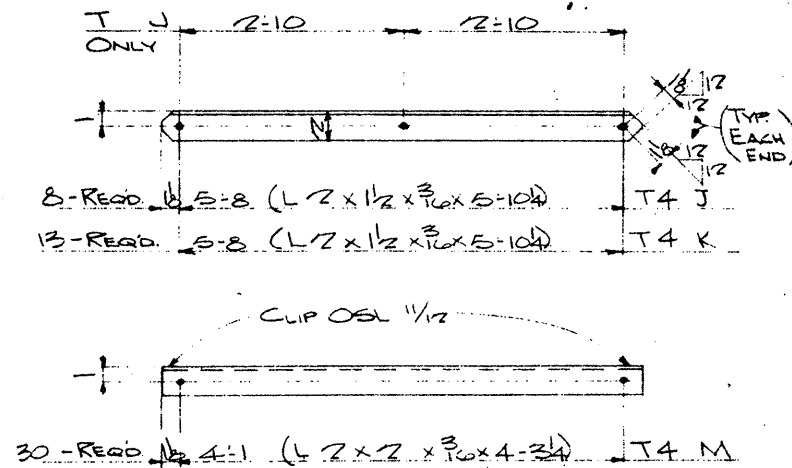
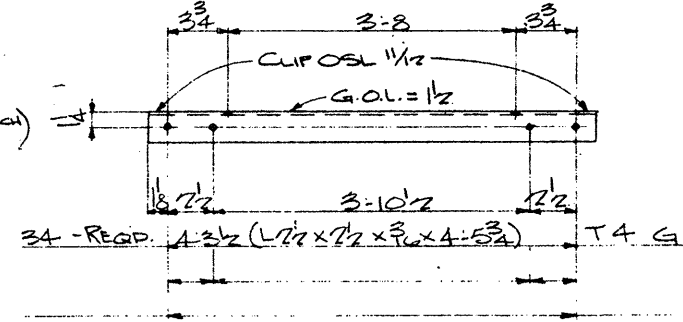
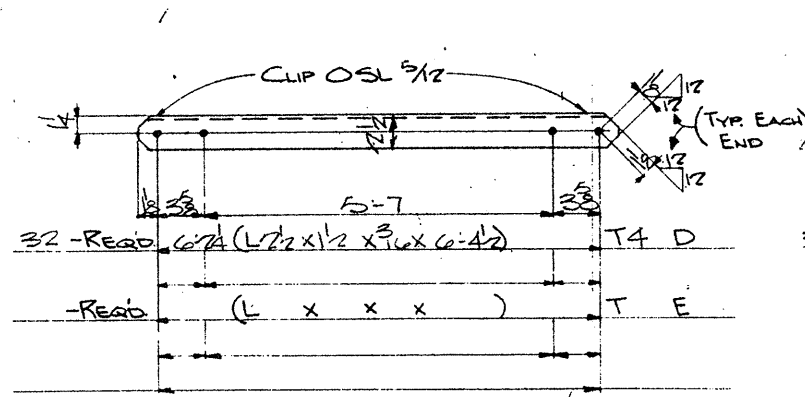
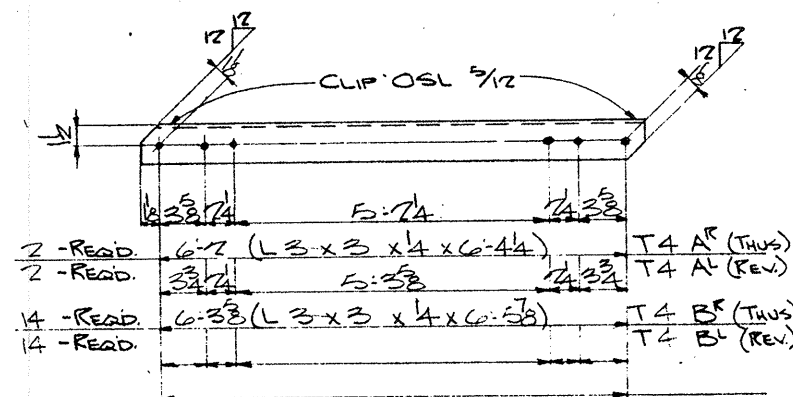
SHOP NOTES
11" & HOLES

LOCATION
STATION No. 10151+51



BID ITEM # 650		ITEM ONE	
APPROVAL			
PRINT			
REV	REVISION	DESCRIPTION	BY DATE
FALCON STEEL COMPANY			
PORT WORTH KAUFMAN			
DESCRIPTION MID SECTION CHORD ANGLES OVERHEAD SIGN BRIDGE TRUSS			
LOCATION GILADALUPE COUNTY TEXAS			
CUSTOMER MICA CORPORATION # 804			
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
16	TEXAS	NA 96351M	73
COUNTY	CONTRACT	SHEET	FOR
DAWSON	10151+51	73	10151+51
DATE	DATE	DATE	DATE
9-30	9-30	9-30	9-30
HOLE DIA. AS NOTED		HOLE DIA. AS NOTED	
11/16"		11/16"	
FOR APPROVAL		FOR APPROVAL	
DWG. T3		DWG. T3	

FEB 2 1998



SHOP NOTE
 1/2" HOLES

NOTES:
 1. ALL MATERIAL TO BE ASTM-A36
 2. FOR TRUSS ASSEMBLY SEE SH. # T1

LOCATION
 STA. # 10151+51

FEB 2 1998

BID ITEM # 650 ITEM # ONE

TEXAS DEPARTMENT OF
 TRANSPORTATION
 APPROVED
 DESIGN DIVISION-BRIDGE SECTION
 MAR 04 1998
 APPROVAL OF THIS DRAWING DOES NOT
 RELIEVE THE CONTRACTOR OF THE
 RESPONSIBILITY FOR THE CORRECTNESS
 OF DETAIL

REV	REVISION	DESCRIPTION	BY	DATE
1				

FALCON STEEL COMPANY
 FORT WORTH KAUFMAN

DESCRIPTION TRUSS LACING & GUSSET PLATES FOR
 OVERHEAD SIGN BRIDGE TRUSS
 LOCATION GUADALUPE COUNTY, TEXAS
 CUSTOMER MICA CORPORATION # 804

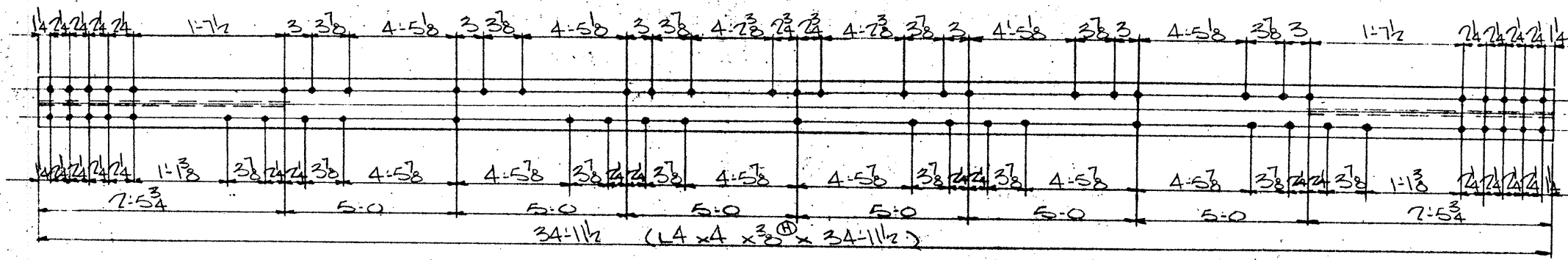
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 36(3)IM	1

STATE DIST. NO.	COUNTY	LOST	SECT	JOB	HIGHWAY
15	GUADALUPE	000	000	000	15

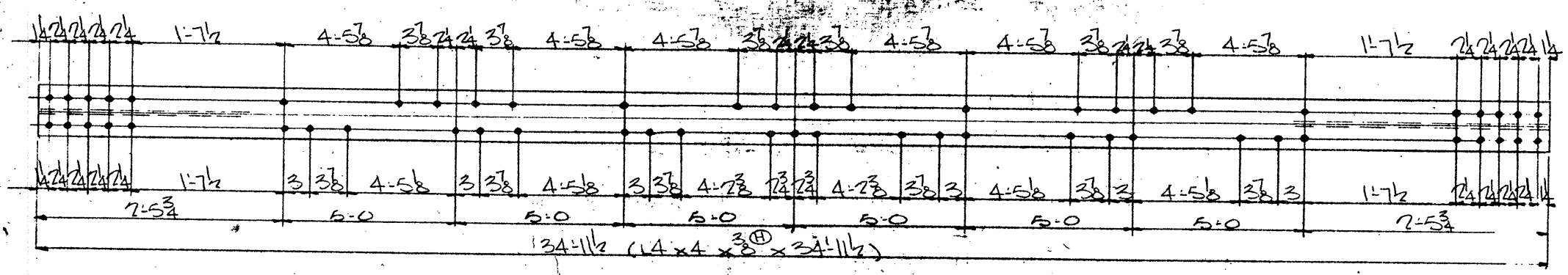
DRAWN BY	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
B	1-98	1/2"	F-3413

CHECKED BY	DATE	FOR APPROVAL	DWG.
			T4

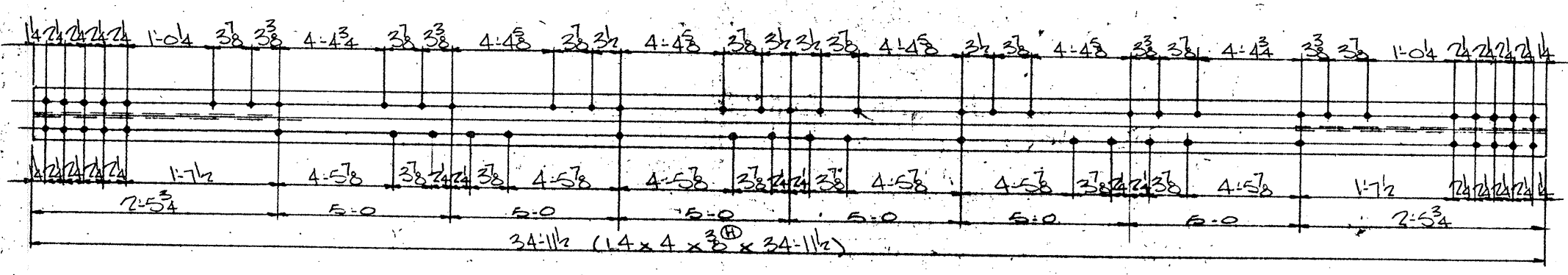
TC S-0P 1



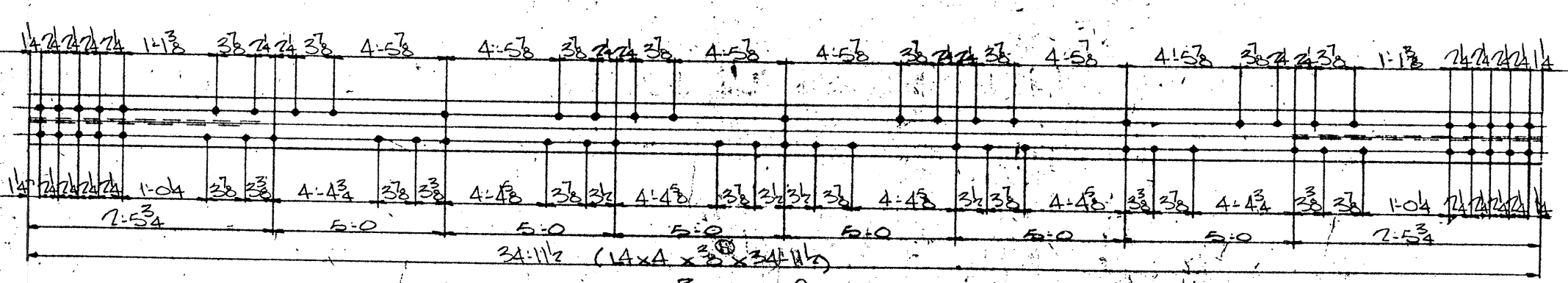
TOP CHORD
2 - REQ'D AS SHOWN - T6A



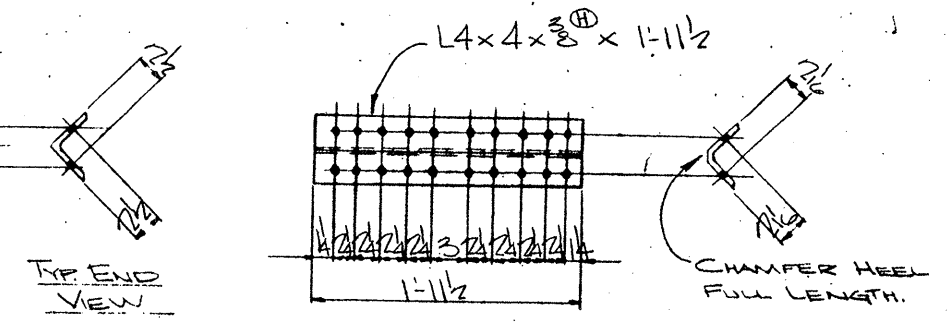
TOP CHORD
2 - REQ'D AS SHOWN - T6B



BOTTOM CHORD
2 - REQ'D AS SHOWN - T6C



BOTTOM CHORD
2 - REQ'D AS SHOWN - T6D



SPICE ANGLES
16 - REQ'D AS SHOWN - T6S

- NOTES:
1. ALL STEEL NOTED @ TO BE A572 HIGH STR. OR EQUAL.
 2. FOR TRUSS ASSEMBLY, SEE DET. #1.
 3. ALL HOLES TO BE 1/8\"

LOCATION
STA# 10179+00
STA# 10223+20

TEX. DEPARTMENT OF
TRANSPORTATION
DESIGNED
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT
IMPLY THE CONTRACTOR OF THE
NEED FOR THE CORRECTNESS

FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
5	TEXAS	NH 96(3) IM	1
STATE DIST. NO.	COUNTY	CONT. SECT.	JOB HIGHWAY NO.
15	GUADALUPE	0006 06	032 IN 36

BID ITEM # 650
ITEM # 4

1 FEB 2 1998

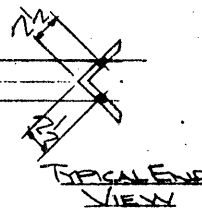
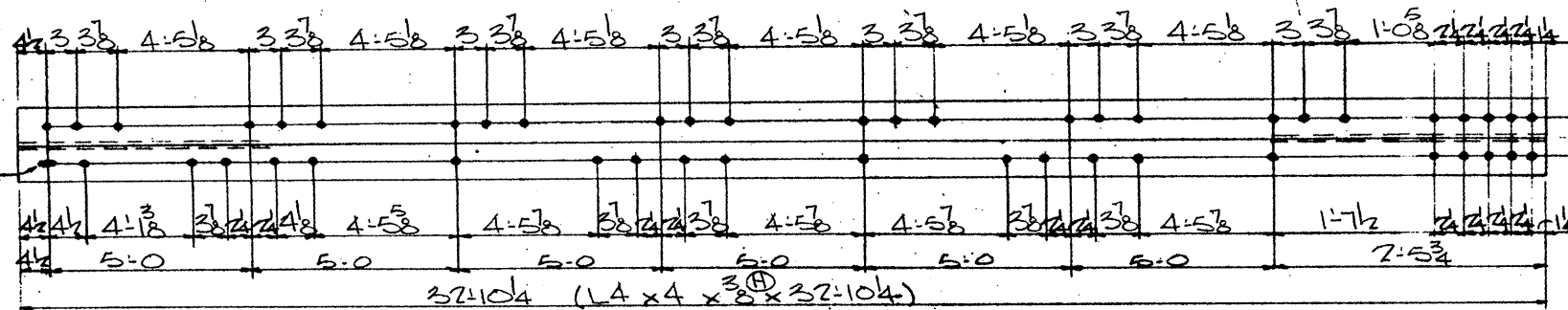
APPROVAL
PRINT

REV	REVISION	DESCRIPTION	BY	DATE

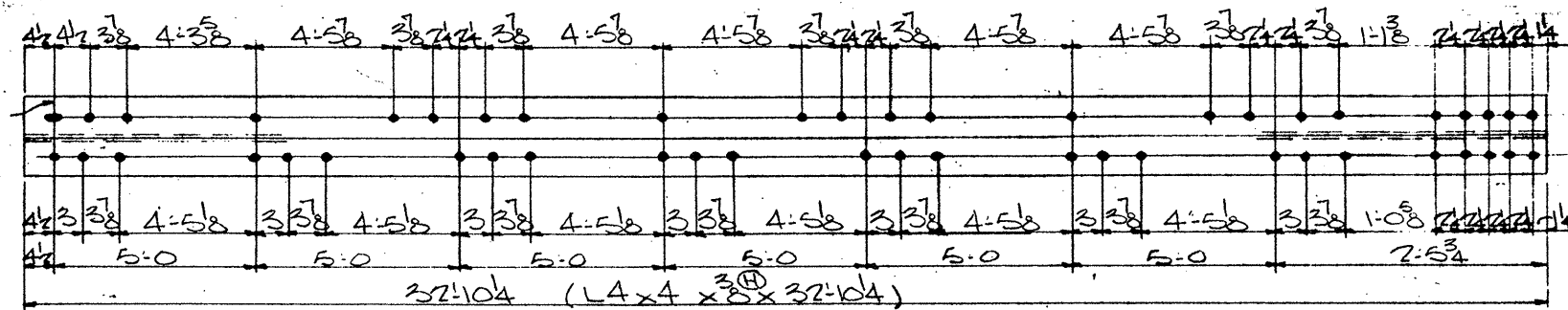
FALCON STEEL COMPANY
FORT WORTH KAUFMAN

DESCRIPTION
MAIN SEC. CHORD L'S F100-0 SPAN
LOCATION
GUADALUPE COUNTY, TEXAS
CUSTOMER
MICA CORPORATION # 804

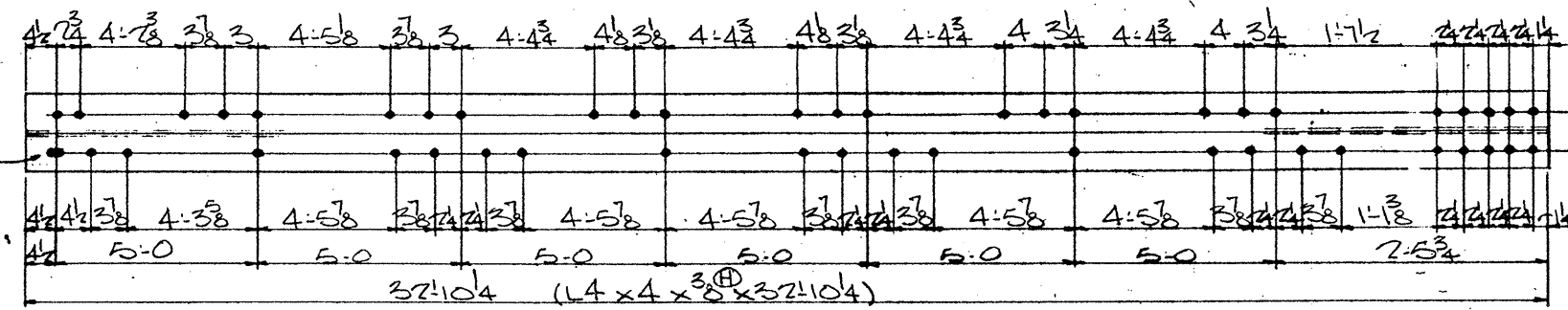
DRAWN BY: B. 1-98	DATE 1-98	HOLE DIA. (UNLESS NOTED) 1/8	JOB NO. F3473
CHECKED BY:	DATE	FOR APPROVAL	DWG. T6
FINISH: GALV.	TO SHOP	SHT. OF	REV



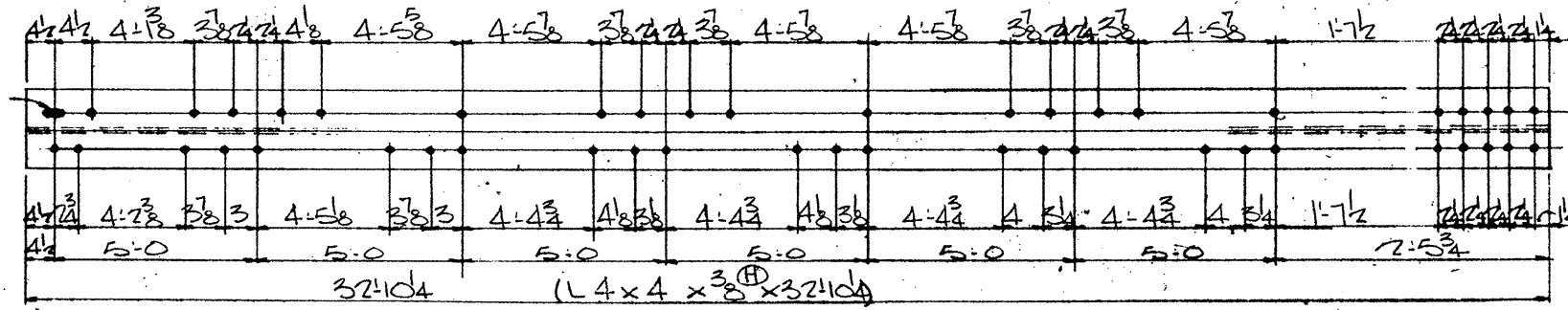
TOP CHORD
(2 - REQ'D AS SHOWN ~ T7A)
(2 - REQ'D OFF. HAND ~ T7A)



TOP CHORD
(2 - REQ'D AS SHOWN ~ T7B)
(2 - REQ'D OFF. HAND ~ T7B)



BOTTOM CHORD
(2 - REQ'D AS SHOWN ~ T7C)
(2 - REQ'D OFF. HAND ~ T7C)



BOTTOM CHORD
(2 - REQ'D AS SHOWN ~ T7D)
(2 - REQ'D OFF. HAND ~ T7D)

- NOTES:
1. ALL STEEL NOTE TO BE ASTM A572 HIGH STK. OR EQUAL
 2. FOR TRUSS ASSY. SEE SH. #
 3. ALL HOLES TO BE 1/4"

LOCATION
STA# 10179+00
STA# 10222+70

TEXAS DEPARTMENT OF
TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
T-11

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 96(3) IM	—
STATE DIST. NO.	COUNTY	CONT.	SECT.
15	GUADALUPE	0016	02

BID ITEM # 650 ITEM # 4

APPROVAL

REV	REVISION	DESCRIPTION	BY	DATE

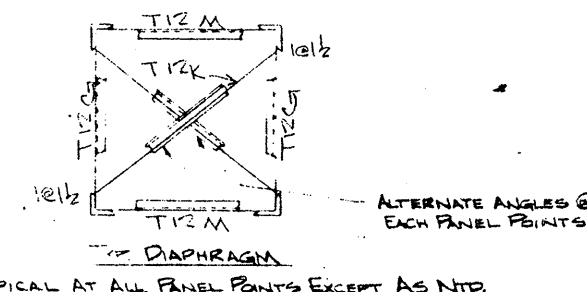
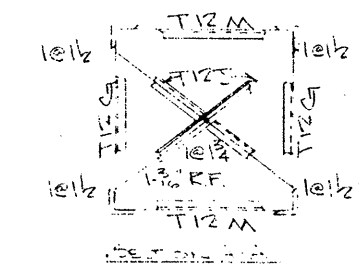
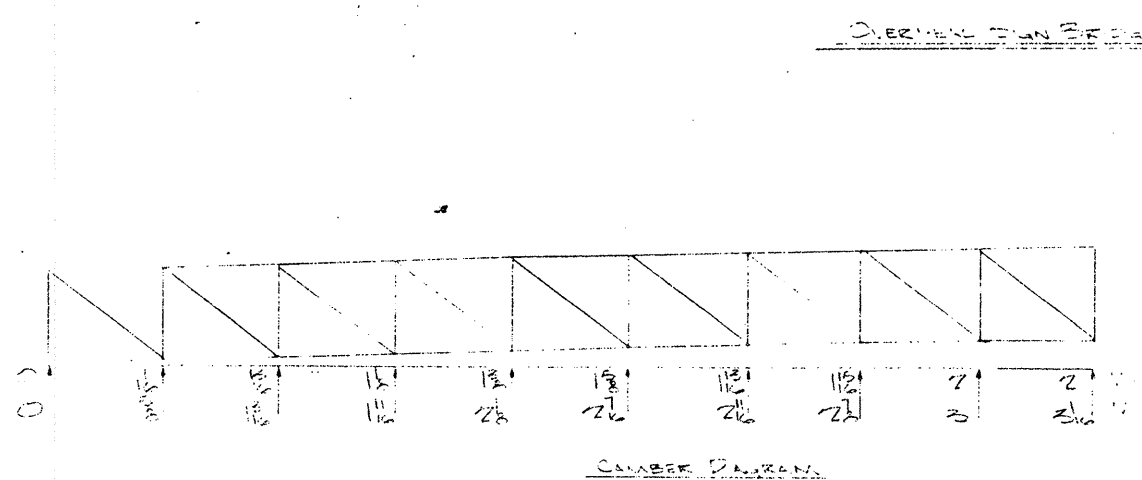
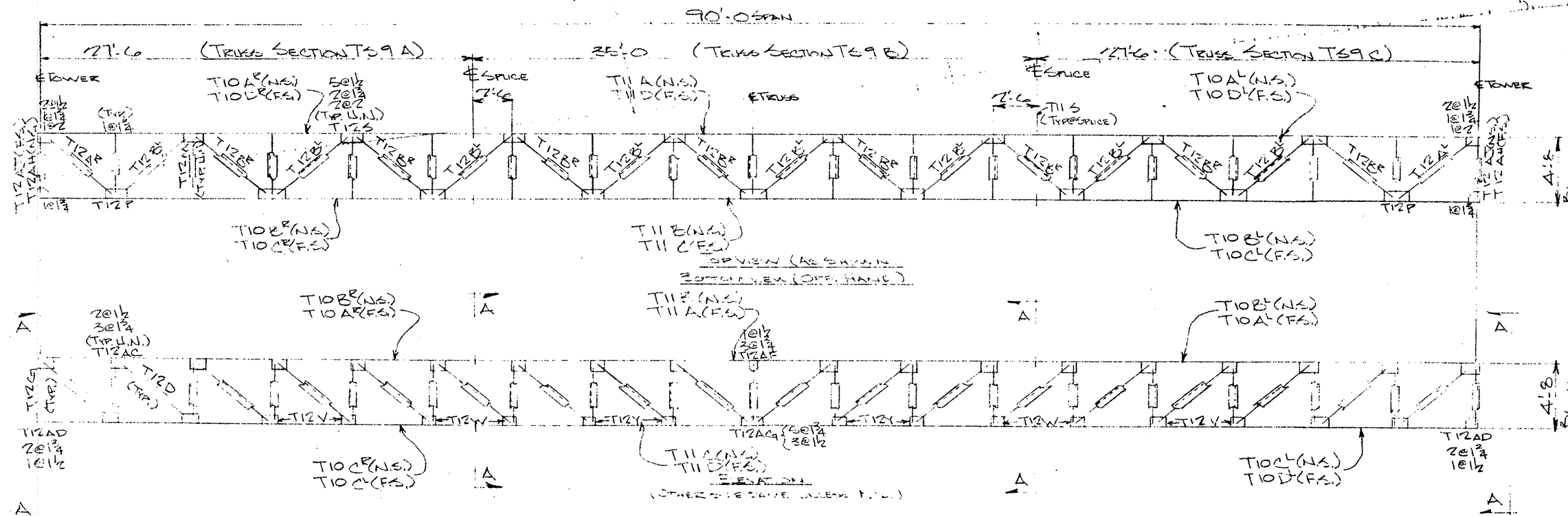
FALCON STEEL COMPANY
FORT WORTH, TEXAS

DESCRIPTION: END SECTION CHORD ANGLES
FOR OVERHEAD SIGN BRIDGE TRUSS
LOCATION: GUADALUPE COUNTY, TEXAS
CUSTOMER: MICA CORPORATION #804

DATE	BY	DATE	BY
1-98			

TO SHOP: GALV. SHT. OF — REV

FEB 2 1998



TRUSS MEMBER BEAMS (ASTM A36) NET COUNT
 374 - 3/4" x 1/2" W/H.H. & H.N.
 349 - 3/4" x 1/2" W/H.H. & H.N.
 77 - 3/4" x 1/2" W/H.H. & H.N.
 T12 - 3/4" HARDENED WASHERS
 4 - 3/4" THK. RING FILLS F/2 & BOLTS

MATERIALS LISTED FOR ONE TRUSS
 MAKE ~ 2 ~ TIMES

NOTES:
 1. FOR LARGEST DETAILS SEE SHT. # T10 & T11
 2. FOR LARGEST DETAILS SEE SHT. # T12
 3. FOR RARE DETAILS SEE SHT. # T12
 4. FOR EXIST. N.D.S. SEE SHT. # E3 & E4

LOCATION
 STA# 10186+25
 STA# 10192+70

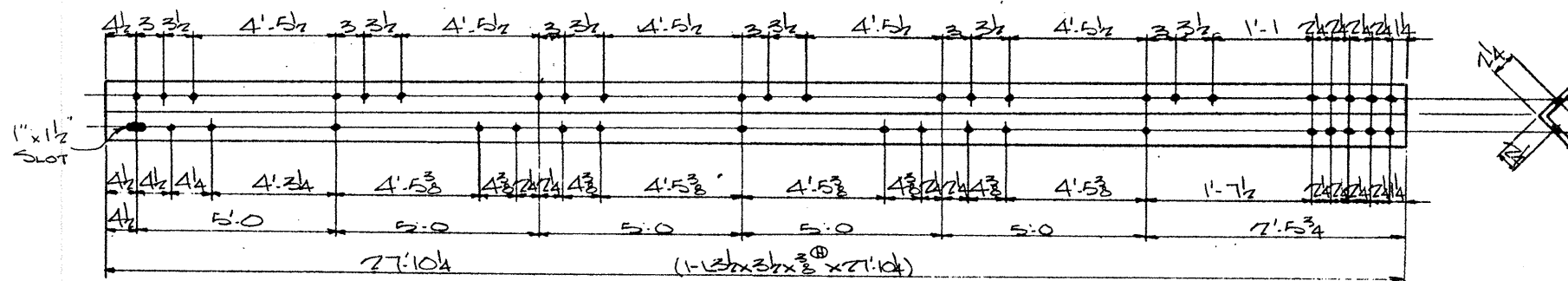
TEXAS DEPARTMENT OF
 TRANSPORTATION
 APPROVED
 DESIGN DIVISION-BRIDGE SECTION
 MAR 04 1998
 APPROVAL OF THIS DRAWING DOES NOT
 IMPLY THE CONTRACTOR OF THE
 PROJECT'S LIABILITY FOR THE CORRECTNESS

ITEM # 3	
APPROVAL PRINT	
REV	REVISION DESCRIPTION
FALCON STEEL COMPANY	
DESCRIPTION OVERHEAD SIGN BRIDGE TRUSS	
LOCATION GUADALUPE COUNTY, TEXAS	
CUSTOMER MCA CORPORATION # 274	
DRAWN BY	DATE
CHECKED BY	DATE
FOR APPROVAL	DATE
TO SHOP	DATE
SHT. OF	REV

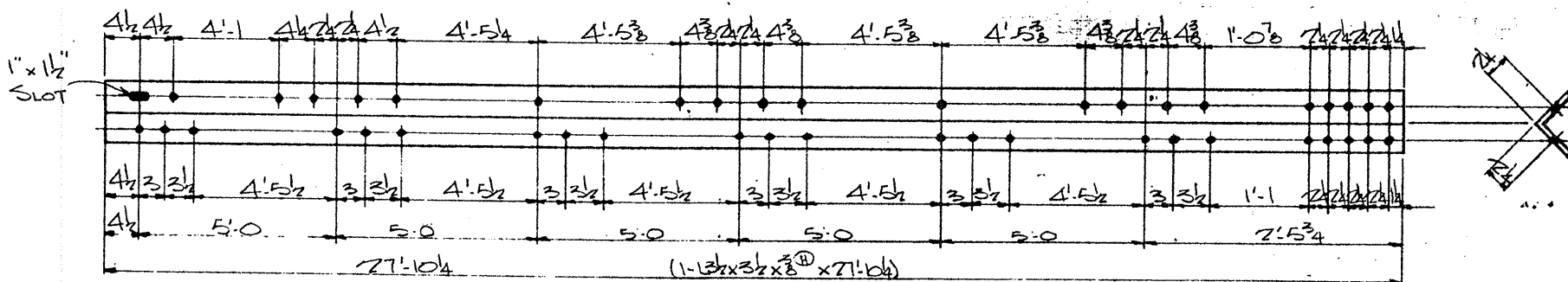
FED. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
15	TEXAS	0006 00 032	1435
COUNTY	CONTRACT	SECTION	JOB
GUADALUPE	0006	00	032
DIST. NO.	CONTRACT	SECTION	JOB
15	GUADALUPE	0006	00 032

MATERIAL LIST FOR ONE TRUSS	
MARK	QTY.
T10A	ONE
T10B	ONE
T10C	ONE
T10D	ONE
T11A	ONE
T11B	ONE
T11C	ONE
T11D	ONE
T11E	8
T12A	2/12
T12B	16/16
T4D	36
T12G	38
T4J	8
T4K	15
T12M	24
T12P	4
T4S	30
T12V	8
T12W	8
T12Y	8
T12AC	44
T12AD	4
T12AF	2
T12AG	2
T12AH	2
T12AJ	2

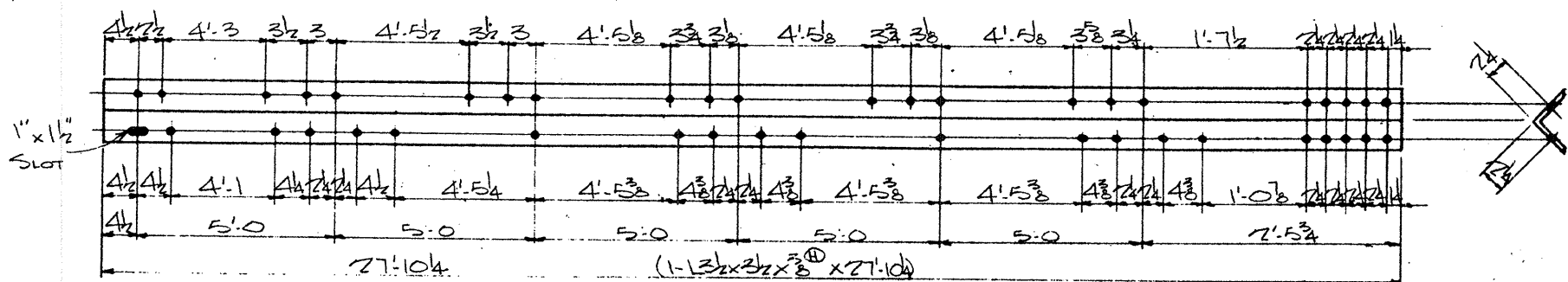
FEB 2 1998



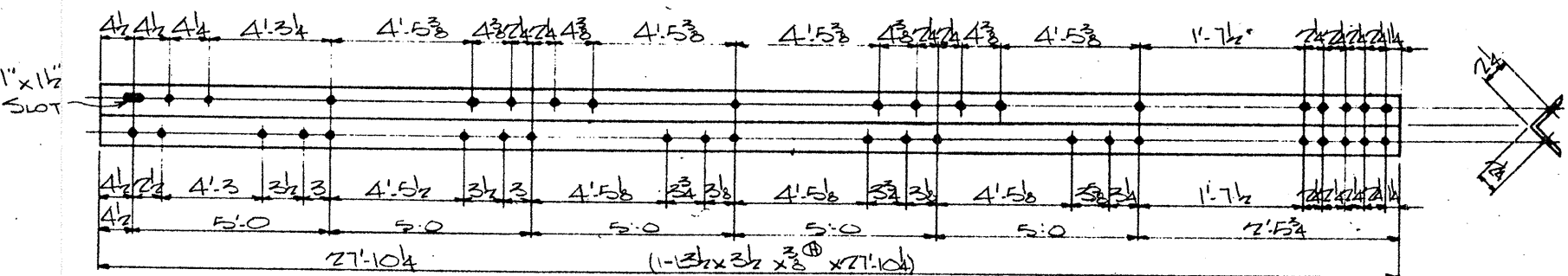
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(2 - REQ'D AS SHOWN ~ T10A)
(2 - REQ'D OFF HAND ~ T10A)



TOP CHORD
(2 - REQ'D AS SHOWN ~ T10B)
(2 - REQ'D OFF HAND ~ T10B)



BOTTOM CHORD
(2 - REQ'D AS SHOWN ~ T10C)
(2 - REQ'D OFF HAND ~ T10C)



BOTTOM CHORD
(2 - REQ'D AS SHOWN ~ T10D)
(2 - REQ'D OFF HAND ~ T10D)

NOTES:

1. ① ALL STEEL TO BE HI-STEEL ASTM-A572 WITH 50 KSI. YIELD STRENGTH, OR EQUAL.
2. FOR TRUSS ASSEMBLY - SEE SHEET T
3. ALL HOLES TO BE 1/16" U.N.

LOCATION

STA# 10186+25
STA# 10192+70

TEXAS DEPARTMENT OF
TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT
RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY FOR THE CORRECTNESS
OF THE DESIGN.

BID ITEM # 650 ITEM # 3

APPROVAL
PRINT

REV REVISION DESCRIPTION BY DATE

FAIRBANKS

DESCRIPTION END SECTION CHORD ANGLES

OVERHEAD SAN BRIDGE TRUSS

LOCATION GUADALUPE COUNTY, TEXAS

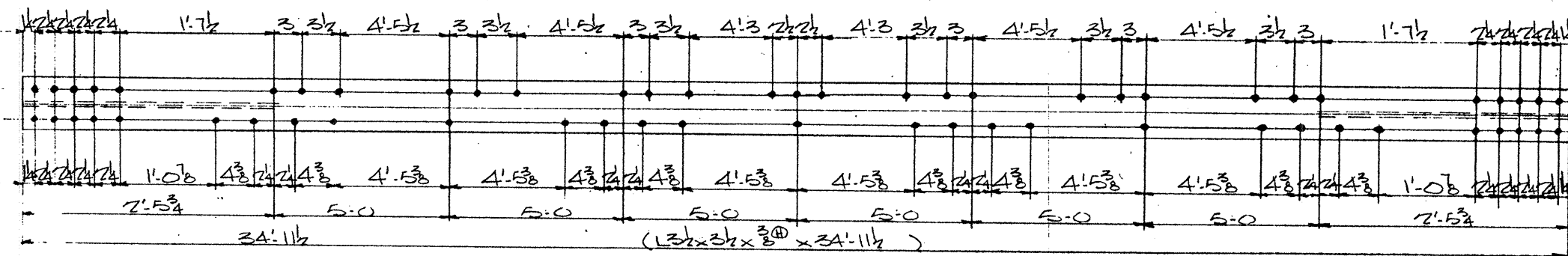
CUSTOMER MICA CORPORATION # 204

FED. RD. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH 98(2) IN	1
STATE DIST. NO.	COUNTY	CONT.	SECT.
12	GUADALUPE		
DATE	CHECKED BY	DATE	FOR APPROVAL
1-18			
DATE	TO SHOP	DATE	TO SHOP

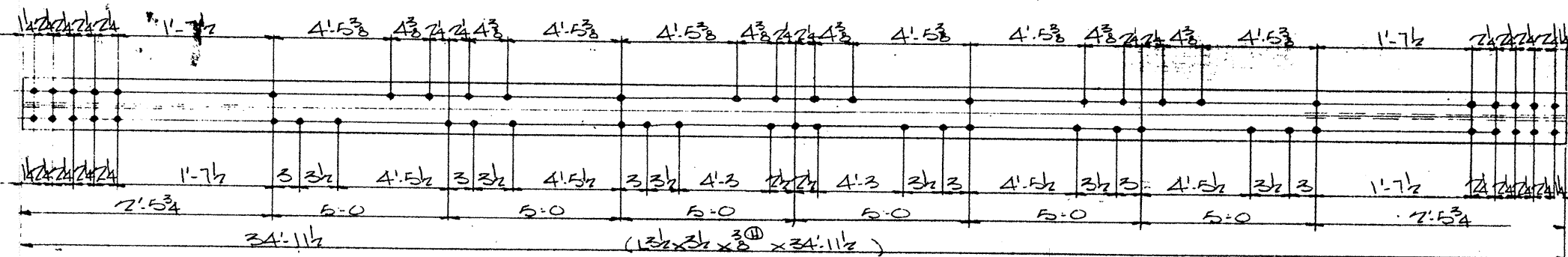
FEB 2 1998

NO. 3473

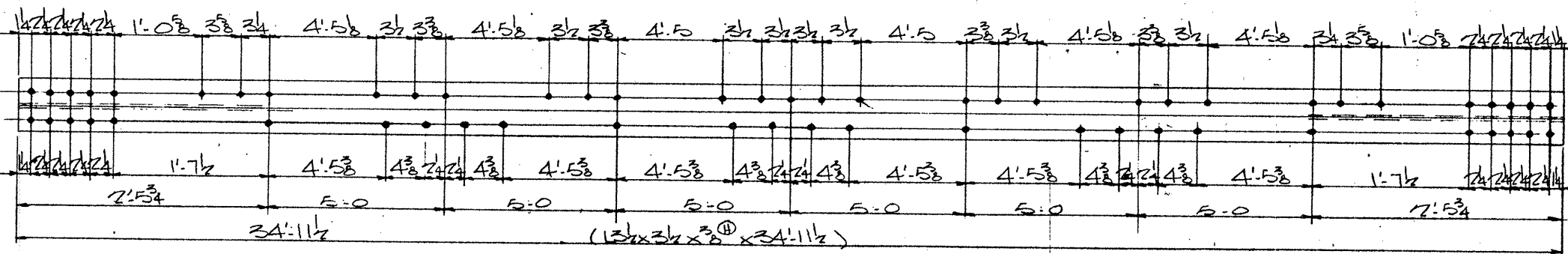
DWG. T10



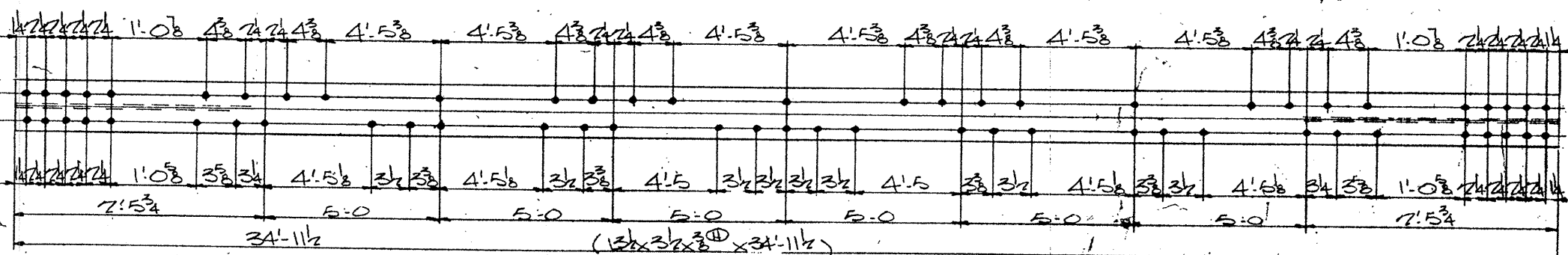
TOP CHORD
2 - REQ'D AS SHOWN - TIIA



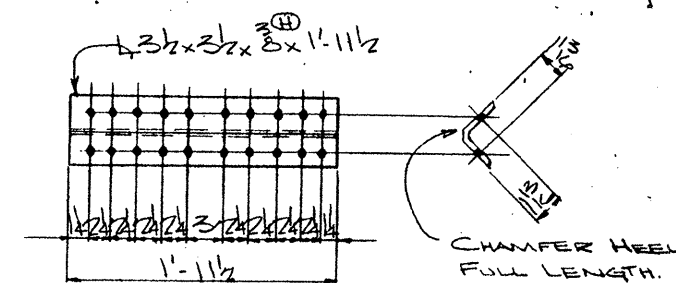
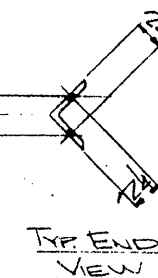
TOP CHORD
2 - REQ'D AS SHOWN - TII B



BOTTOM CHORD
2 - REQ'D AS SHOWN - TII C



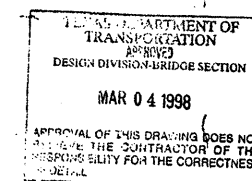
BOTTOM CHORD
2 - REQ'D AS SHOWN - TII D



SPICE ANGLES
16 - REQ'D AS SHOWN - TII S

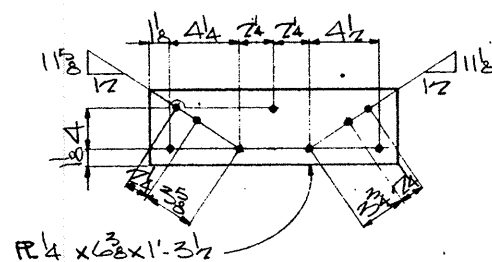
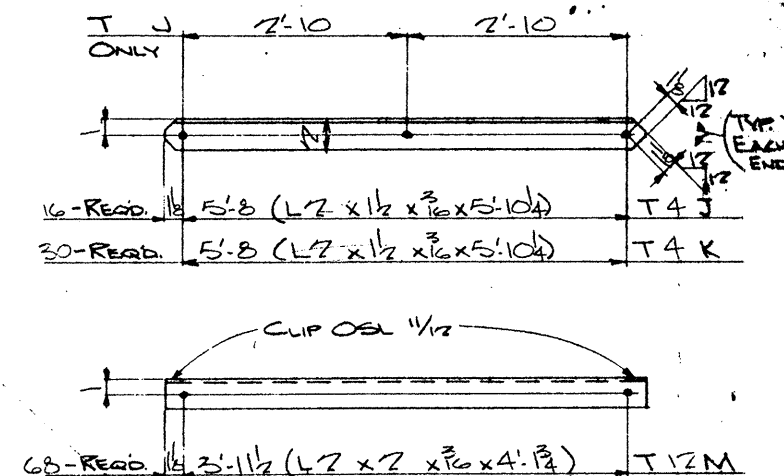
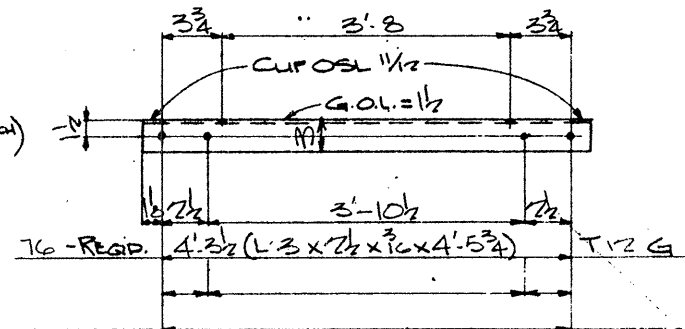
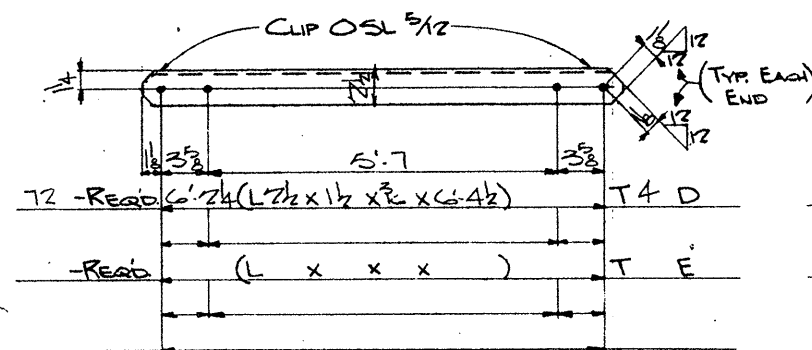
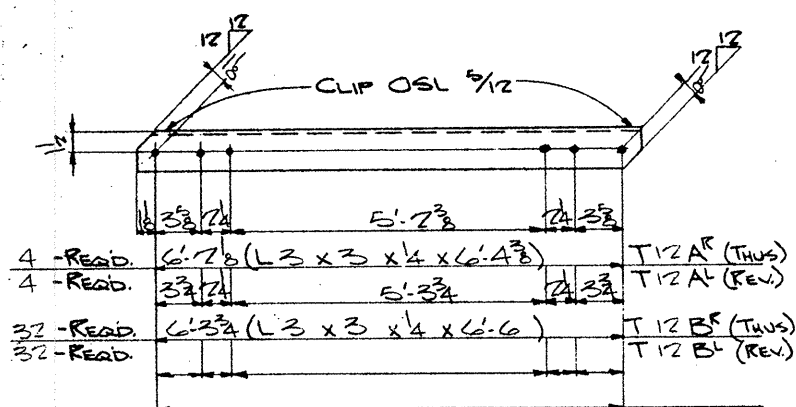
- NOTES:
1. ALL STEEL NOTED ① TO BE A572 HIGH STR. OR EQUAL.
 2. FOR TRUSS ASSEMBLY, SEE SHIT #12
 3. ALL Holes TO BE 1/8" P. U.N.

LOCATION
STA # 10186+25
STA # 10192+70

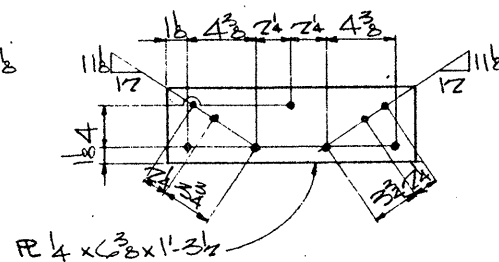


BID ITEM # 650		ITEM # 3	
APPROVAL			
REV	REVISION	DESCRIPTION	BY DATE
FALCON STEEL COMPANY			
FORT WORTH KAUFMAN			
DESCRIPTION MID SECT. CHORD 7'S F70.5.B.			
STA #			
LOCATION GUADALUPE COUNTY TEXAS			
CUSTOMER MICA CORPORATION #804			
DRAWN BY: [Signature]		DATE: 2/21/98	HOLE DIA. (UNLESS NOTED) 1 1/8"
CHECKED BY: [Signature]		DATE: [Blank]	FOR APPROVAL
FINISH: GALV.		TO SHOP	DWG. TII
SHEET 1 OF 1		REV	

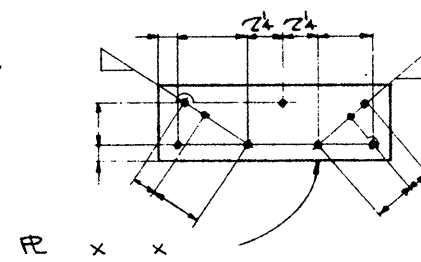
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
15	TEXAS	NH 93(2)M	1
STATE DIST. NO.	COUNTY	CONT. SECT.	JOB
15	GUADALUPE	0016 06	033 IH25



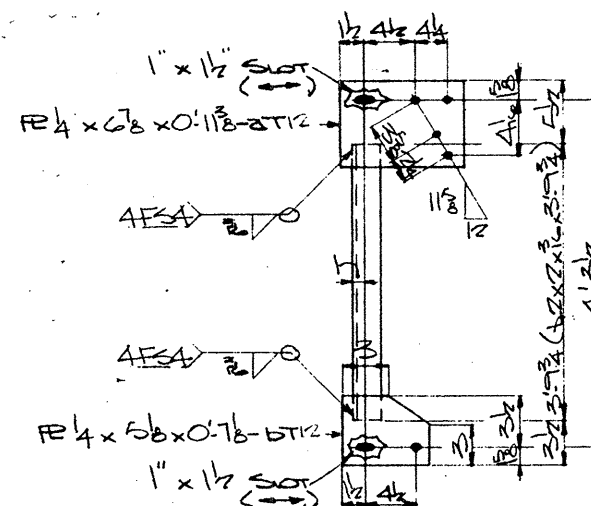
8 - PLATES-T12P



60 - PLATES-T4S



- PLATES-T T



SHOP NOTE:
1/16" HOLES

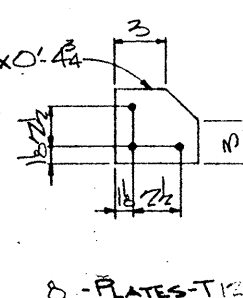
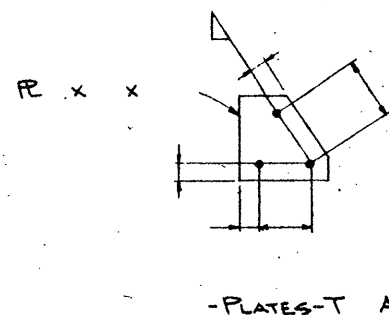
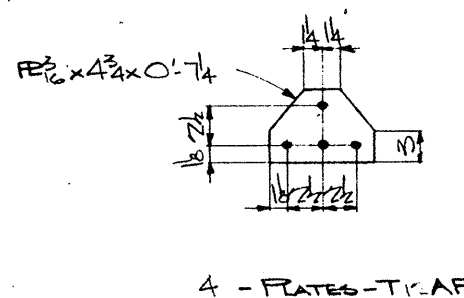
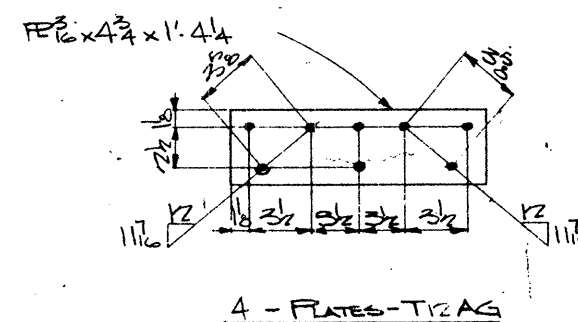
NOTES:
1. ALL MATERIAL TO BE ASTM-A36
2. FOR TRUSS ASSEMBLY SEE SH. #T

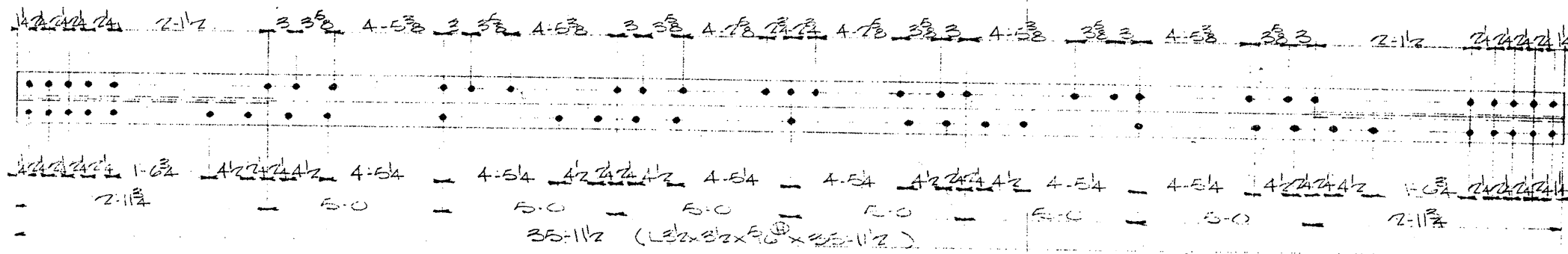
LOCATION
STA # 10186+25
STA # 10192+70

FEB 2 1998

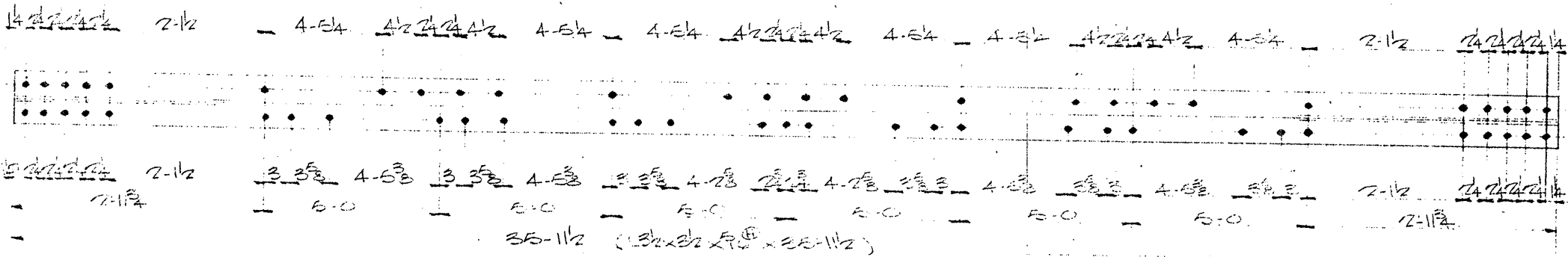
BID ITEM # 650		ITEM # 3	
APPROVAL			
REV	REVISION	DESCRIPTION	BY DATE
FALCON STEEL COMPANY FORT WORTH KAUFMAN			
DESCRIPTION TRUSS LACING & GUSSET PLATES FOR OVERHEAD SIGN BRIDGE TRUSS			
LOCATION GUADALUPE COUNTY, TEXAS			
CUSTOMER MICA CORPORATION #234			
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
60	TEXAS	NH 9831M	1
STATE DIST. NO.	COUNTY	CONT. SECT.	JOB
15	GUADALUPE	0010 06 033	1425
DRAWN BY	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
B	9-98	1/4"	164 F-3473
CHECKED BY	DATE	FOR APPROVAL	DWG
			T12
FINISH	TO SHOP	SHEET OF	
15	GUADALUPE	SHEET OF	

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT
IMPLY THE CONTRACTOR OF THE
DESIGNER'S LIABILITY FOR THE CORRECTNESS
OF THE DESIGN

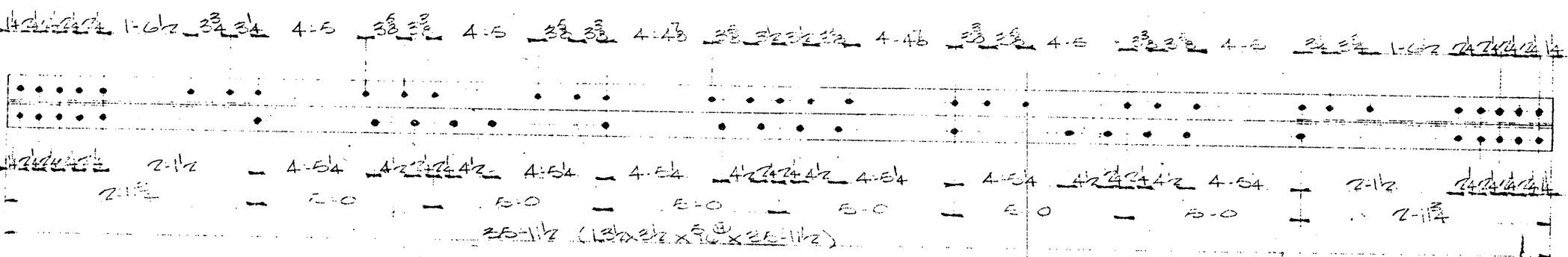




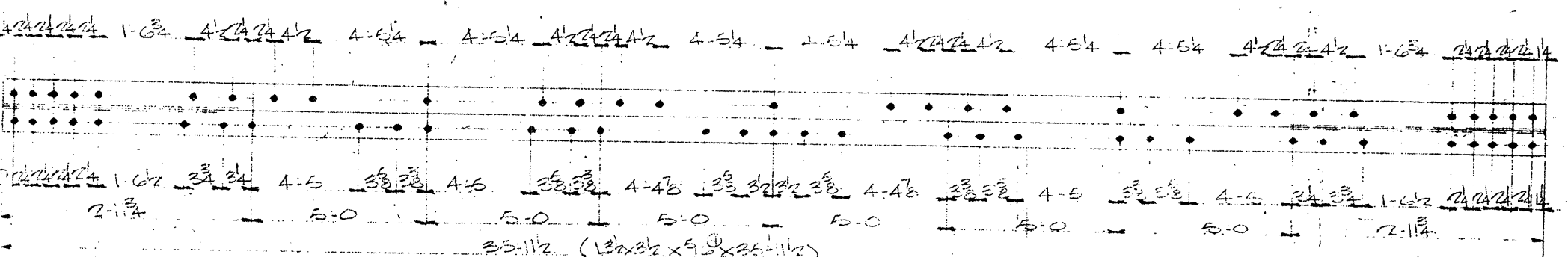
TOP CHORD
ONE - REQ'D AS SHOWN - T14A



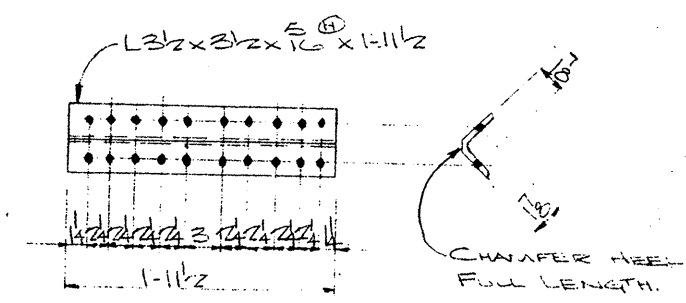
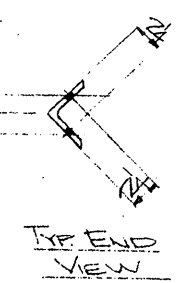
TOP CHORD
ONE - REQ'D AS SHOWN - T14B



BOTTOM CHORD
ONE - REQ'D AS SHOWN - T14C



BOTTOM CHORD
ONE - REQ'D AS SHOWN - T14D



SPICE ANGLES
ONE - REQ'D AS SHOWN - T14S

- NOTES:
1. ALL STEEL NOTED @ TO BE A572 HIGH STR. C2 E300.
 2. FOR TOLERANCES SEE DETAIL.
 3. ALL HOLES TO BE 1/4" U.N.

LOCATION
STA# 10197+22

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
MAR 04 1998
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF DETAIL.

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
101	TX	101-100	101-100
STATE DIST. NO.	COUNTY	CONTRACT	SECTION
101	101	101	101
FINISH	TO SHOP	DATE	BY
101	101	101	101

1 FEB 2 1998
ITEM #3

APPROVAL
PRINT

REV. REVISION DESCRIPTION BY DATE

FALCON STEEL COMPANY
FORT WORTH KAUFMAN

DESCRIPTION

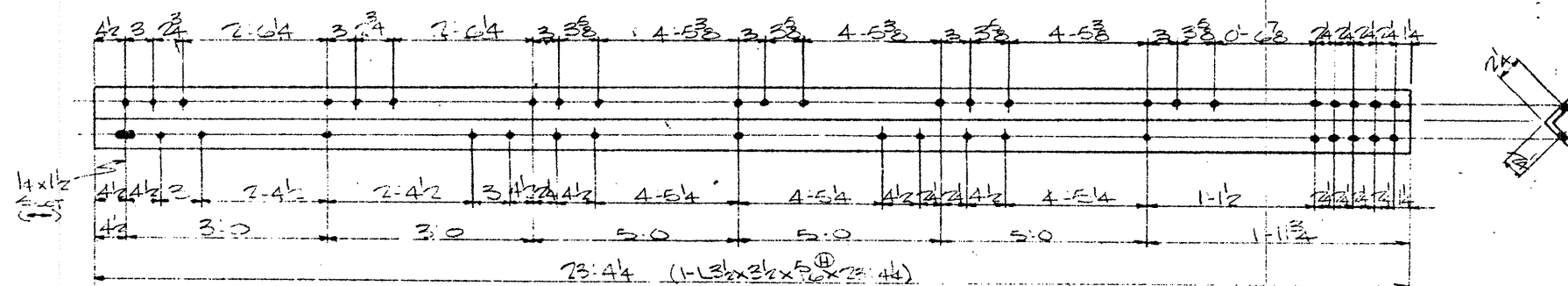
LOCATION: GUADALUPE COUNTY, TX.

CUSTOMER: MICA CORPORATION #604

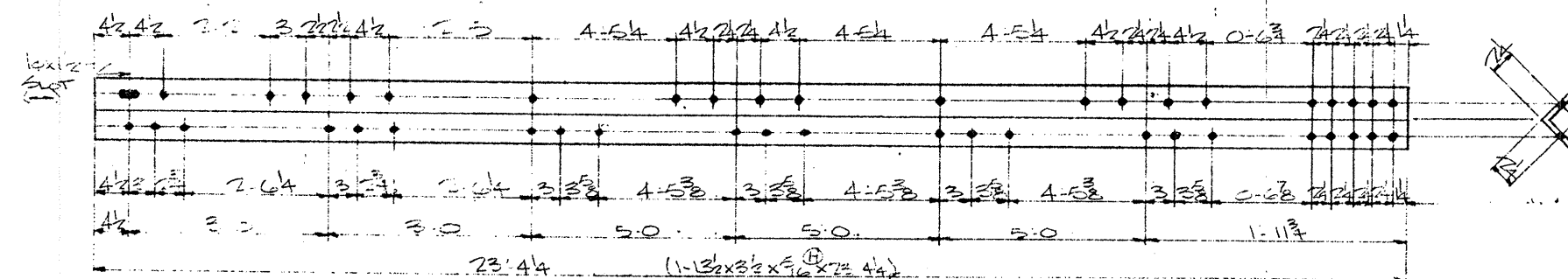
DRAWN BY: E DATE: 1-10 HOLE DIA. (UNLESS NOTED): 1/4" JOB NO: F-3473

CHECKED BY: DATE: FOR APPROVAL DWG: F14

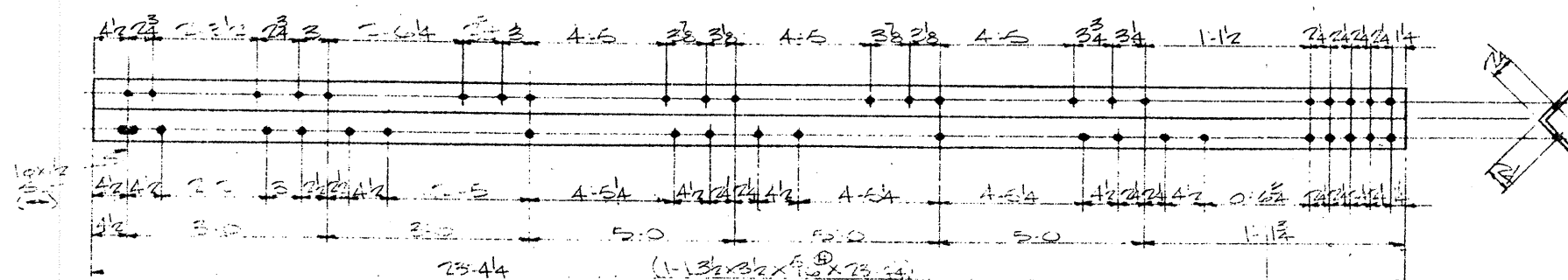
FINISH: TO SHOP SHT: 1 OF 1



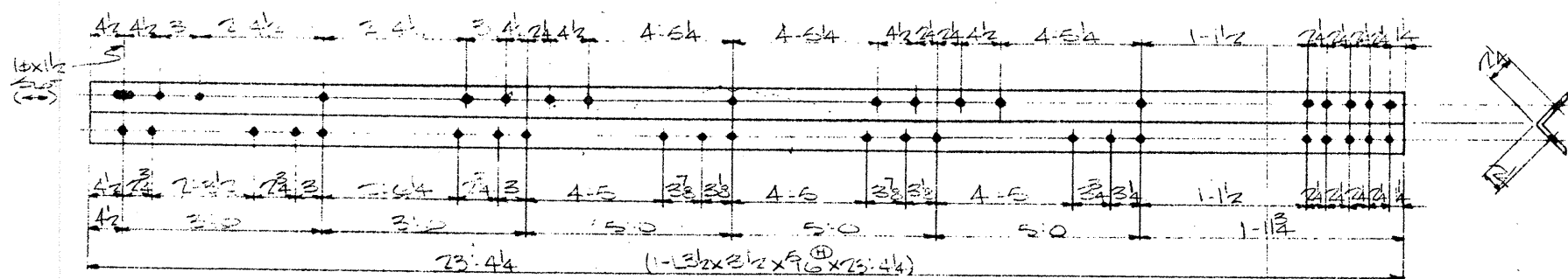
TOP CHORD
(ONE - REQ'D AS SHOWN ~ T15A)
(ONE - REQ'D OFF HAND ~ T15A)



TOP CHORD
(ONE - REQ'D AS SHOWN ~ T15B)
(ONE - REQ'D OFF HAND ~ T15B)



BOTTOM CHORD
(ONE - REQ'D AS SHOWN ~ T15C)
(ONE - REQ'D OFF HAND ~ T15C)

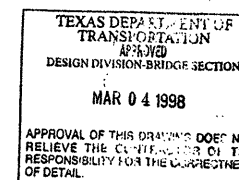


BOTTOM CHORD
(ONE - REQ'D AS SHOWN ~ T15D)
(ONE - REQ'D OFF HAND ~ T15D)

NOTES:

1. \textcircled{A} ALL STEEL TO BE HI-STE. ASTM-A572 WITH 50 KSI. YIELD STK, OR EQUAL.
2. FOR TRUSS ASSEMBLY - SEE SHT T13.
3. ALL HOLES TO BE $\frac{1}{16}$ " U.N.

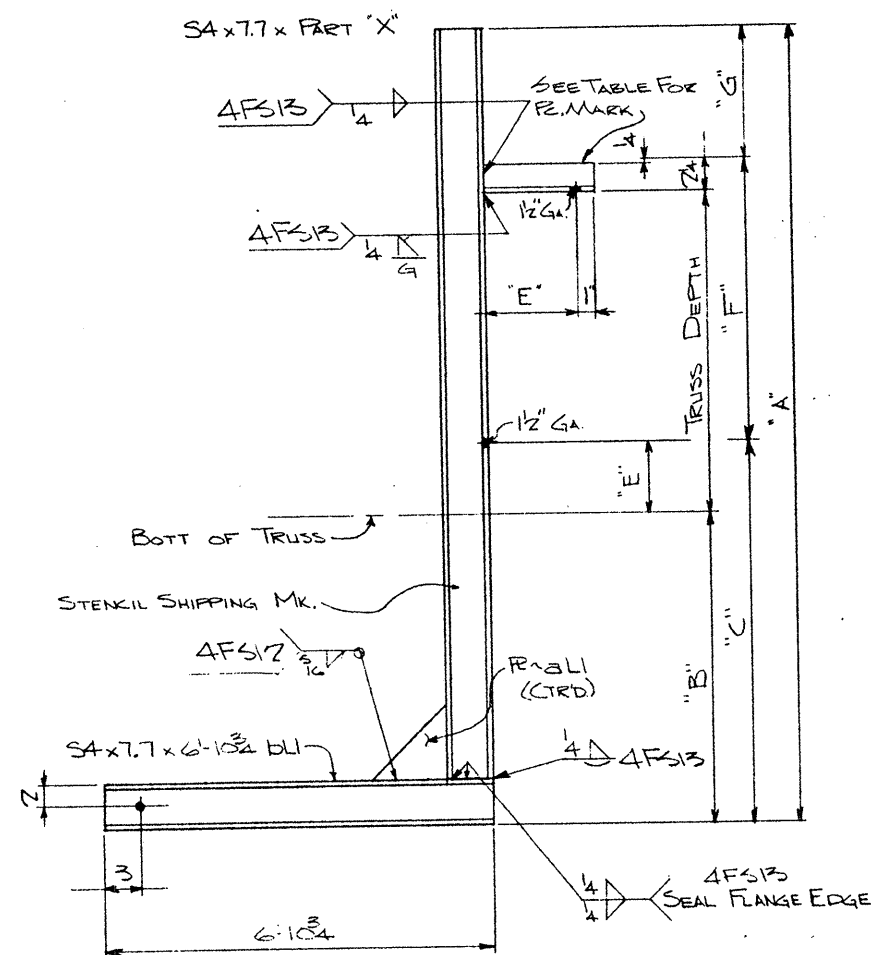
LOCATION
STA# 10197+22



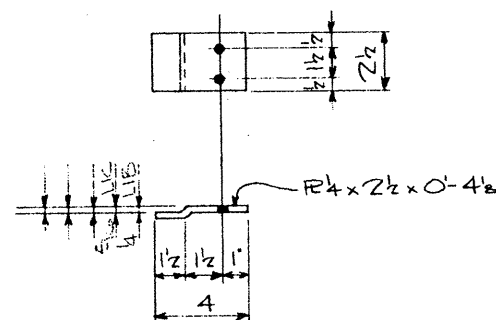
BID ITEM #		ITEM # 3	
APPROVAL			
PRINT			
REV	REVISION	DESCRIPTION	BY DATE
FALCON STEEL COMPANY			
DESCRIPTION: END SECTION CHORD ANGLES			
LOCATION: GUADALUPE COUNTY, TX			
CUSTOMER: MICA CORPORATION # 804			
DRAWN BY: B	DATE: 1-98	HOLE DIA. (UNLESS NOTED): 1/16"	JOB NO: F-3473
CHECKED BY:	DATE:	FOR APPROVAL	DWG. T15
FINISH: GALV.	TO SHOP	SHT. OF	REV

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
15	TEXAS	NH 163	1
STATE DIST. NO.	COUNTY	COM. SECT.	JOB
15	GUADALUPE	0016	020 023 1032

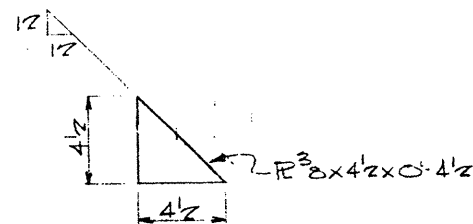
1 FEB 2 1998



BRACKET TYPE I
(SEE SCHEDULE FOR DIMENSIONS)

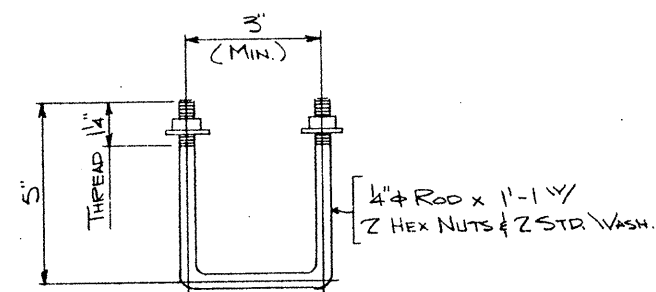


- P_2 - CLAMP $P_{S_2} \sim L_{12}$
 P_2 - CLAMP $P_{S_2} \sim L_{12}$
 - CLAMP $P_{S_2} \sim$
 - CLAMP $P_{S_2} \sim$
 - CLAMP $P_{S_2} \sim$



36 - STIFF PENALTY

BRACKET TYPE II
(SEE SCHEDULE FOR DIMENSIONS)



72 - U-BOLTS ~ LIA

LOCATION										BRACKET SCHEDULE										STENCIL SHIPPING MK ON PART "X"							
										SHOP DIMENSIONS							LENGTH OF PART										
										SHIPPING MARK	TOTAL QUAN	TYPE	A	B	C	—	E	F	G	X	—	RMK					
										12	12	12	14	10	12	LIA	72			4	U-BOLTS						
															12	LIB	12				CLAMP P'S						
										12	12	12	14	10		LIC	60										
															ONE	LID	ONE	II	9'-3	2'-10 ³ / ₈	3'-3 ⁵ / ₈		5'-4	4'-5	1'-6 ³ / ₈	8'-11	2L3
															2	LIE	2	II	11'-3	2'-10 ³ / ₈	3'-5 ⁵ / ₈		5'-4	4'-5	3'-6 ³ / ₈	10'-11	
															ONE	LIF	2	II	7'-9	2'-2 ³ / ₈	2'-7 ³ / ₈		5'-4	4'-5	8'-5	7'-5	
															2	LIG	4	II	9'-9	2'-2 ³ / ₈	2'-7 ³ / ₈		5'-4	4'-5	2'-8 ⁵ / ₈	9'-5	2L6
															2	LIH	2	II	11'-3	3'-9 ³ / ₈	4'-3 ³ / ₈		5'-4	4'-4 ¹ / ₂	2'-7 ³ / ₈	10'-11	2L4
															ONE	LIJ	ONE	II	8'-9	2'-7 ³ / ₈	3'-1 ³ / ₈		5'-4	4'-4 ¹ / ₂	1'-3 ³ / ₈	8'-5	
															2	LIK	2	II	10'-9	2'-7 ³ / ₈	3'-1 ³ / ₈		5'-4	4'-4 ¹ / ₂	3'-3 ³ / ₈	10'-5	2L3
															ONE	LIM	ONE	II	9'-9	3'-1 ³ / ₈	3'-6 ³ / ₈		5'-4	4'-5	1'-9 ³ / ₈	9'-5	2L3
															2	LIN	2	II	11'-9	3'-1 ³ / ₈	3'-6 ³ / ₈		5'-4	4'-5	3'-9 ³ / ₈	11'-5	
															2	LIP	2	II	12'-3	4'-2 ³ / ₈	4'-5 ³ / ₈		5'-4	4'-5	3'-1 ³ / ₈	11'-11	
															2	LIS	2	II	14'-3	4'-2 ³ / ₈	4'-3 ³ / ₈		5'-4	4'-5	5'-1 ³ / ₈	13'-11	
															ONE	LIT	3	II	13'-3	4'-8 ¹ / ₂	5'-1 ³ / ₄		5'-4	4'-5	3'-8 ¹ / ₄	12'-11	
															2	LIV	6	II	15'-3	4'-8 ¹ / ₂	5'-1 ³ / ₄		5'-4	4'-5	5'-8 ¹ / ₄	14'-11	
															ONE	LIW	2	II	11'-3	3'-9 ³ / ₈	5'-7		5'-4	4'-5	1'-3	10'-11	
															2	LIAA	4	II	13'-3	3'-9 ³ / ₈	5'-7		5'-4	4'-5	3'-3	12'-11	

BRACKET BOLTS (3% ADDED)

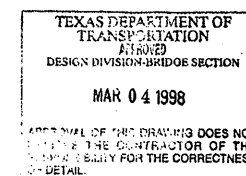
- 1/2" ϕ x 1 1/2" GALV. BOLTS 1/4" HH & HN
- 1/2" ϕ STD. WASHERS
- 1/2" ϕ BEVEL WASHERS

ACCESSORIES FOR LIGHT FIXTURES (3% ADDED)

- 3" ϕ x 14" HEX HD. CAP SCREWS
- 3" ϕ CLAMPING NUTS
- 3" ϕ STD. WASHERS
- 7" x 1/8" TH. x 0.7 NEOPRENE PAD w/ 7" ϕ HOLE ON C.

MATERIAL SPECS:

1. STEEL ASTM-A36
2. BOLTS ASTM-A307
3. CLAMPING NUTS ~ UNISTRUT P1008
OR EQUAL.



BID ITEM# 650

FEB 2 1998


APPROVAL
PRINT

REV	REVISION	DESCRIPTION	BY	DATE
CEALCON STEEL COMPANY				

DESCRIPTION	LIGHT & SIGN SUPPORT BRACKETS
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LOCATION, GUADALUPE COUNTY TEXAS

CUSTOMER NAVA (SEPARATION) #101

T	DRAWN BY: 	DATE 1-28	HOLE DIA. (UNLESS NOTED)
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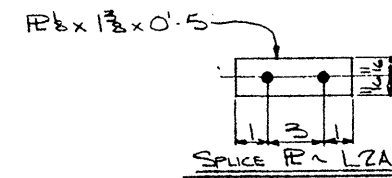
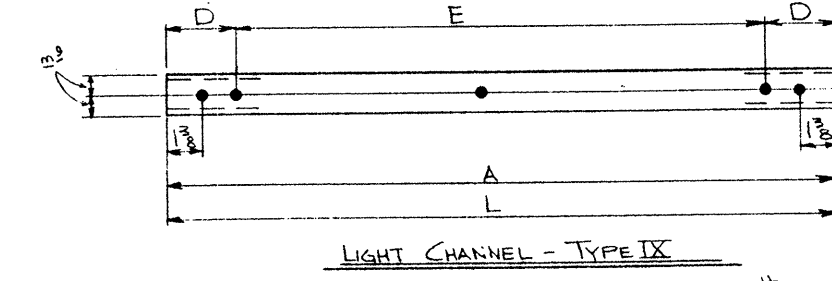
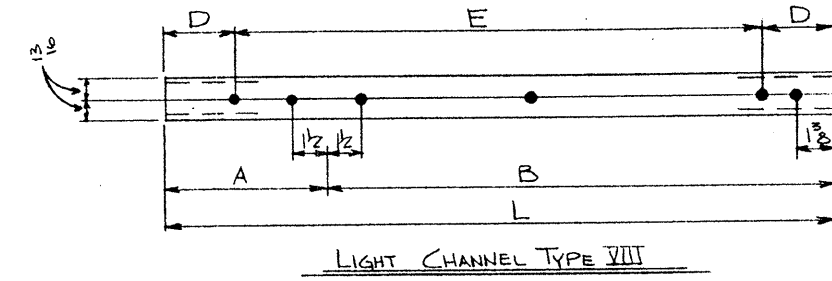
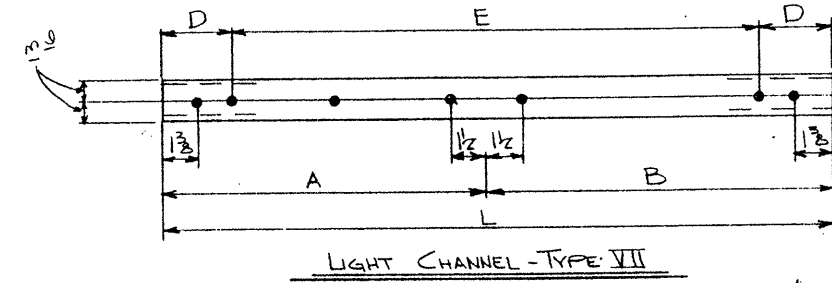
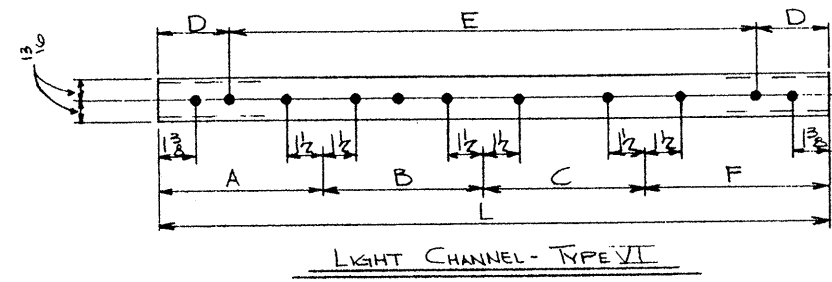
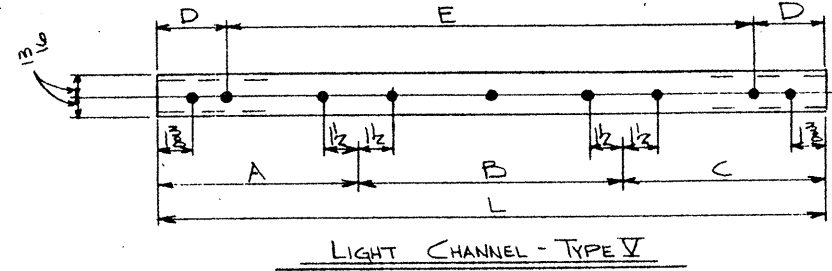
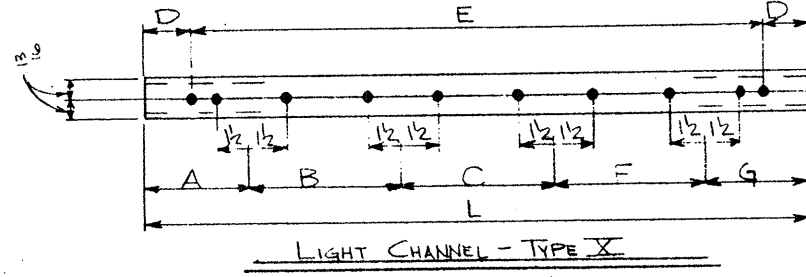
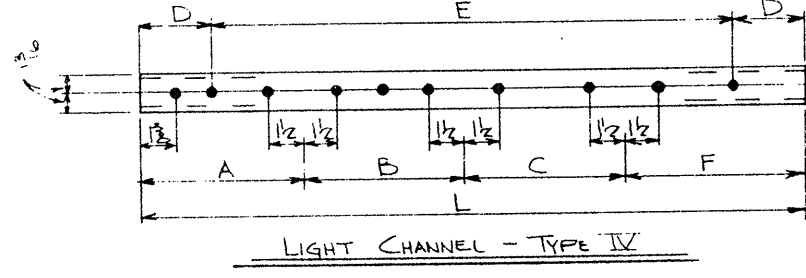
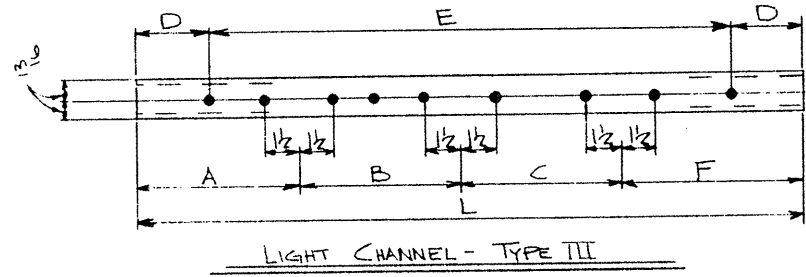
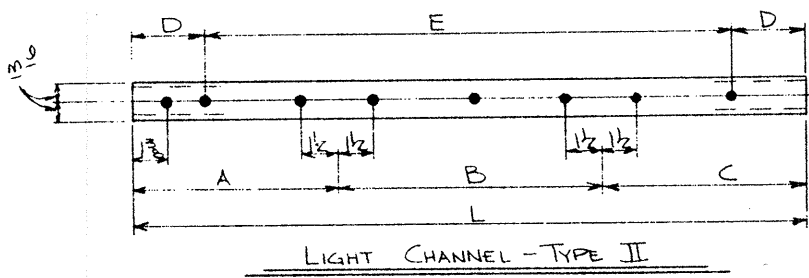
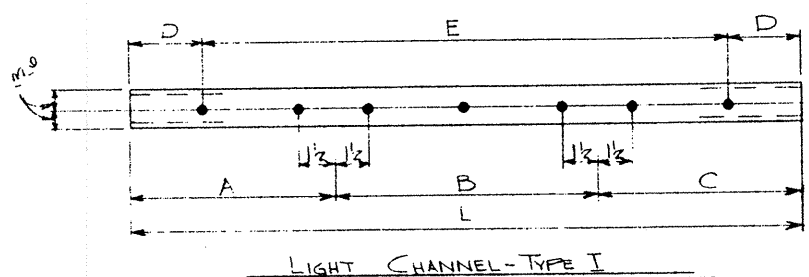
CHECKED BY:	DATE	FOR APPROVAL
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FINISH:	TO SHOP
GALV.	

5

FED RD. DIST. NO.	STATE	FEDERAL PROJECT NO.					SHEET NO.	DRAWN BY:	DATE	HOLE DIA. (UNLESS NOTED)	JOB NO.
6	TEXAS	NH 1331M					—	E	1-78		F-2473
STATE DIST. NO.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.		CHECKED BY:	DATE	FOR APPROVAL		DWG.
15	GRADY	2	2	2	TH26						LI
FINISH								TO SHOP		SHT — OF —	
CALV.											

UNISTRUT CHANNELS P2000 OR EQUAL										LOCATION									
R MARK	TOTAL QUANTITY	TYPE	L	A	B	C	F	D	E	G	STA #	1015H51 STA #	1011H02 STA #	1015G45 STA #	1012H10 STA #	1011H22 STA #	1015H43 STA #		
L2B		III	18.0	1.0	9.0	7.0	1.0	1.0	80.0	1	2								
L2C		III	16.0	1.6	7.6	5.0	1.0	1.0	72.0	1	2								
L2D		I	9.6	6	9.6	1.0	-	9	40.0	1									
L2E		III	13.0	1.0	9.0	6.0	2.0	1.0	60.0	1									
L2F		III	13.0	1.0	4.0	6.0	2.0	6	118.0	1									
L2G		X	24.0	1.0	7.6	7.0	7.6	1.0	80.0	1.0									
L2H		III	17.6	3	8.6	8.6	3	9	70.0	1									
L2J		III	14.6	1.0	5.1	7.0	9	3	40.0	1									
L2K		III	17.0	1.6	7.6	6.6	1.6	6	90.0	1									
L2M		III	13.6	1.6	9.0	7.0	1.0	3	40.0	1									
L2N		III	17.0	1.6	10.0	8.6	2.0	6	70.0	1									
L2P		III	15.0	1.6	6.6	6.0	1.0	6	14.0	1									



DESIGNATION OF
STANDARD SECTION
MAR 04 1998
REVISION OF THE STANDARD DOES NOT
IMPLY THE CORRECTNESS OF THE
SECTION FOR THE CORRECTNESS

FED RD DIV NO	STATE	FEDERAL PROJECT NO	SHEET NO
6	TEXAS	NH 1631M	
STATE DIST NO	COUNTY	CONT SECT JOB	HIGHWAY NO
16	GRADALUPE	2100 033	1433

DRAWN BY	DATE	HOLE DIA (UNLESS NOTED)	JOB NO
	1-98	5/8"	F3473
CHECKED BY	DATE	FOR APPROVAL	DWG
			L2
FINISH	TO SHOP	SHT	OF

BID ITEM # 660

APPROVAL
POINT

REV	REVISION	DESCRIPTION	BY	DATE
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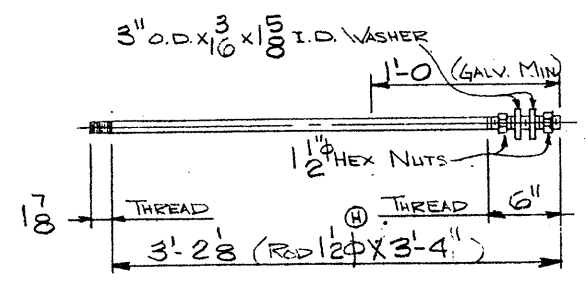
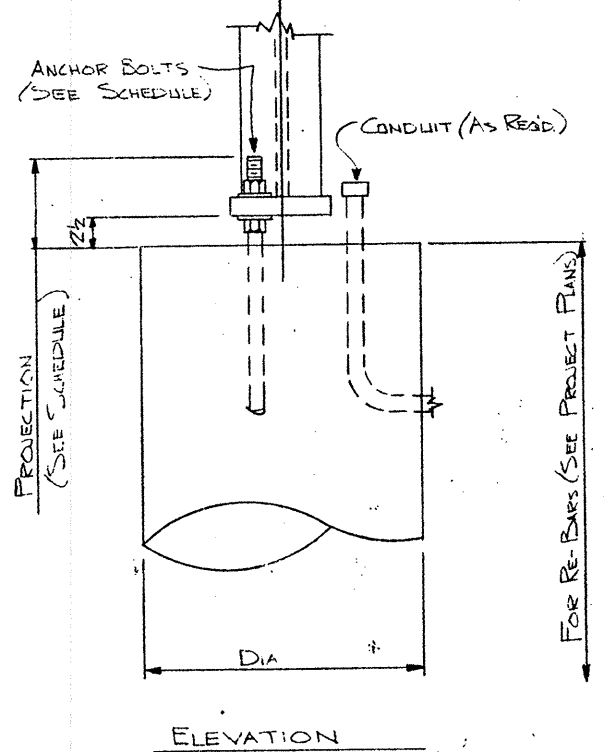
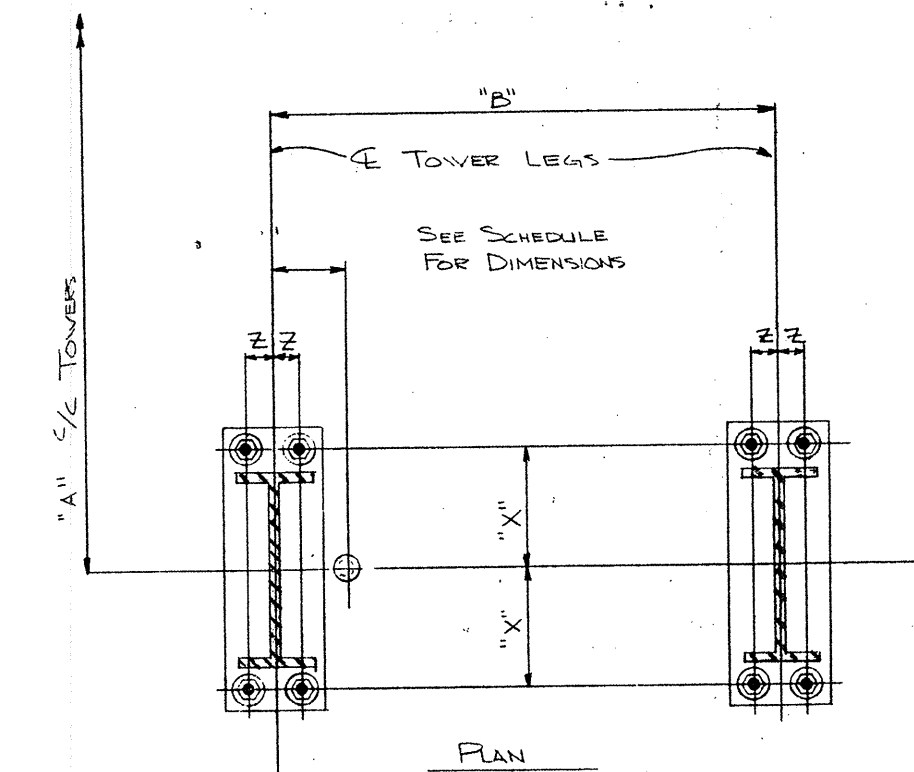
FALCON STEEL COMPANY
FORT WORTH KAUFMAN

DESCRIPTION UNISTRUT CHANNELS

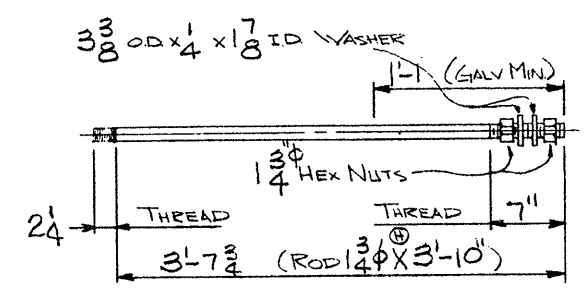
LOCATION GRADALUPE COUNTY TEXAS

CUSTOMER MICA CORPORATION #304

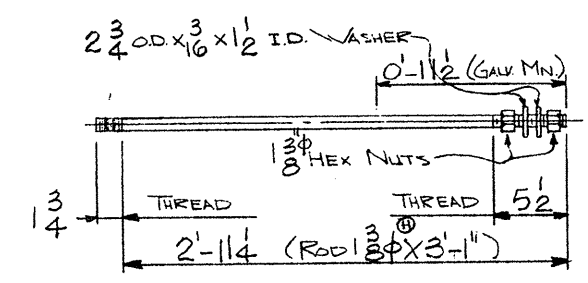
1 FEB 2 1998



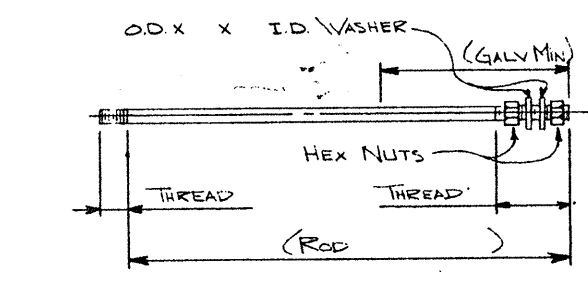
16 - ANCHOR BOLTS Mk A1A



64 - ANCHOR BOLTS Mk A1B



16 - ANCHOR BOLTS Mk A1C



- ANCHOR BOLTS Mk A1

22.5/22.5 W1226
23.0/25.5 W1430
24.0/13.0 W1026
23.0/28.5 W1430
22.5/30.5 W1430
23.5/26.5 W1430

STATION #	STRUC #	"A"	"B"	FOUNDATION		OF BASE PLATE AND		ANCHOR BOLT PROJECTION		LEFT TOWER		RIGHT TOWER		LEFT TOWER		RIGHT TOWER	
				LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER	LEFT TOWER	RIGHT TOWER
				DIA	DEPTH	DIA	DEPTH	ELEV.	PROJ.	ELEV.	PROJ.	QTY	MARK	QTY	MARK	"X"	"Z"
10151+51	2	80'-0"	6'-6"	2-30"	16.5'	2-30"	13.0'	820.28	6"	814.28	6"	8	A1A	8	A1A	3	2 3/8
10179+00	3	100'-0"	7'-0"	2-36"	15.0'	2-36"	16.0'	843.26	7"	840.76	7"	8	A1B	8	A1B	9 1/4	2 3/4
10186+25	4	80'-0"	6'-6"	2-30"	16.5'	2-30"	27.5'	835.35	5 1/2"	846.35	5 1/2"	8	A1C	8	A1C	7	2
10192+70	5	90'-0"	6'-6"	2-36"	18.5'	2-36"	15.0'	833.12	7"	827.62	7"	8	A1B	8	A1B	9 1/4	2 3/4
10197+22	6	82'-0"	6'-6"	2-36"	13.0'	2-36"	16.5'	831.19	7"	823.19	7"	8	A1B	8	A1B	9 1/4	2 3/4
10222+20	7	100'-0"	7'-0"	2-36"	18.5'	2-36"	15.0'	824.14	7"	820.64	7"	8	A1B	8	A1B	9 1/4	2 3/4

MATERIALS

- 1 BAR FOR ANCHOR BOLTS (ASTM A36 - M.S.S. (HI STRENGTH).
- 2 NUTS TO BE A194 GR 2H (STD. THREADS)
- 3 WASHERS TO BE HI STRENGTH (HARDENED)

TEXAS DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION-BRIDGE SECTION
OCT 17 1997
APPROVAL OF THIS DRAWING DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTNESS OF DETAIL.

BID ITEM # 650

APPROVAL
PRINT
OCT 9 1997

REV: 1
REVISION: 1
DESCRIPTION: ANCHOR BOLTS; ANCHOR BOLT SETTING

LOCATION: GUADALUPE COUNTY, TEXAS

CUSTOMER: MICA CORP #804

DRAWN BY: D. MINOR
CHECKED BY: L. MINOR
FINISH: GALV. NOTED

DATE: 9-97
DATE: 9-97
TO SHOP: GALV. NOTED

JOB NO: F3473
DWG: A1
SHT 1 OF 2

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
6	TEXAS	NH96(3)1M	1
STATE DIST. NO.	COUNTY	CONT. SECT.	JOB
15	GUADALUPE	0016 06	032 I 35

BID ITEM# 650		ITEM#	
<h1>APPROVAL PRINT</h1>			
OCT -9 1997			
REV	REVISION	DESCRIPTION	BY DATE
<h2>FALCON STEEL COMPANY</h2>			
FORT WORTH		KAUFMAN	
DESCRIPTION ANCHOR BOLT SETTING TEMPLATES			
LOCATION GUADALUPE COUNTY, TEXAS			
CUSTOMER MICA CORP #804			
DRAWN BY D. NNOR	DATE 9-97	HOLE DIA (UNLESS NOTED)	JOB NO #3473
CHECKED BY L. WILKINSON	DATE	FOR APPROVAL	DWG A2
FINISH BLACK	TO SHOP	SHT 2 OF 2	REV