

FAX TRANSMISSION

O.D.O.T.

650 EASTERN AVE.
CHILlicothe, Ohio 45601
(614) 773-2691
FAX: (614) 773-2702

To: Jeff Honefanger, Manager Special Date: December 31, 1997
Hauling Permits

Fax #: 1-614-777-0335 **Pages:** 2, including this cover sheet.

From: Emerson L. Richmond

Subject: Bridge Posting

COMMENTS:

Bridge ADA-348-0703 (SFN 0104264) has had a major rehab. replacing the entire superstructure. Request the legal loads to be raised back up to 150%.

DISTRICT 9
ROADWAY
SERVICES

OHIO DEPARTMENT OF TRANSPORTATION
INTER-OFFICE COMMUNICATION

DATE: Dec. 31, 1997

TO: **Jeff Honefanger, Manager
Special Hauling Permits**

FROM: **J. Darrel Armstrong, Roadway Services Manager**

BY: **Emerson Richmond, District 9 Bridge Specialist**

SUBJECT: **Bridge Posting**

- 1. COUNTY:** Adams
- 2. CURRENT BRIDGE NUMBER:** ADA-348-0703
- 3. STRUCTURE FILE NUMBER:** 0104264
- 4. FEATURE INTERSECTED:** Cedar Run
- 5. PRESENT REDUCTION:** 100%
- 6. REQUESTED WEIGHT LIMIT 150%:**
- 7. EFFECTIVE DATE CURRENT POSTING:**
- 8. DATE OF DIRECTOR'S JOURNAL ENTRY:**
- 9. EFFECTIVE DATE OF RESCINDING:** Immediately
- 10. REASON:** New Superstructure

JDA:ELR:tlw

cc: J. Hagen
D. Armstrong
Job file
File

inter-office communication



To: James A. Watkins, District 9 Deputy Director **Date:** October 29, 1996

From: B.W. Fagrell, Administrator Office of Structural Engineering

By: J.C. Randall, Structural Steel Engineer . 614-466-4082 /614-752-4824 fax

Subject: Shop Drawing Approval per CMS 501.05

Attn: V.E. Wilson - Highway Management Administrator

County: Adams

Project: Invitation to Bid No. 529-95

We are forwarding two (2) prints each of Marietta Structures' approved prestressed concrete box beam shop drawing nos. 1 to 4, showing details of Item 515, Prestressed Concrete Bridge Members. One (1) set is intended for your file and one (1) set is for the Project Engineer.

BWF:JCR:VJF:0529invd.wpd

A handwritten signature in black ink, appearing to read "J.C. Randall".

Enclosure

c: Marietta Structures
Bryan Struble
Inspector
SSfile

RECEIVED

OCT 30 1996

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
HIGHWAY BRIDGE ADMINISTRATION

BRIDGE BEAM FABRICATION NOTES

COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (f'_c) SHALL NOT BE LESS THAN 5500 psi.

COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF DETENSTONING (f'_c) SHALL NOT BE LESS THAN 4000 psi.

PRESTRESSING STEEL SHALL BE SEVEN WIRE UNCOATED STRESS RELIEVED STRAND IN ACCORDANCE WITH ASTM A416 GRADE 270, 1/8" DIAMETER.

ALL PRESTRESSING STRANDS SHALL BE STRESSED TO AN INITIAL TENSIONING FORCE PER STRAND EQUAL TO 3,000 lbs. ALL PRESTRESSING STRANDS SHALL BE STRESSED TO A FINAL TENSIONING FORCE PER STRAND EQUAL TO 28,900 lbs. (BEFORE LOSSES).

ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, A616, OR A617 GRADE GRADE 60 BLACK STEEL, UNLESS OTHERWISE NOTED.

ALL ANCHOR BOLTS, NUTS AND STUDS SHALL CONFORM TO THE PHYSICAL PROPERTIES OF ASTM-A325 EXCEPT THAT THE MINIMUM ELONGATION SHALL BE 10%.

ALL GUARDRAIL EMBEDDED ACCESSORIES AND TRANSVERSE TIE RODS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 OR ASTM A153, AND CMS 711.02.

KEY WAYS TO BE SANDBLASTED PRIOR TO SHIPPING (WITHIN 4 DAYS OF SHIPMENT).

TOP OF BEAM FINISH TO BE TRANSVERSE BROOMED.

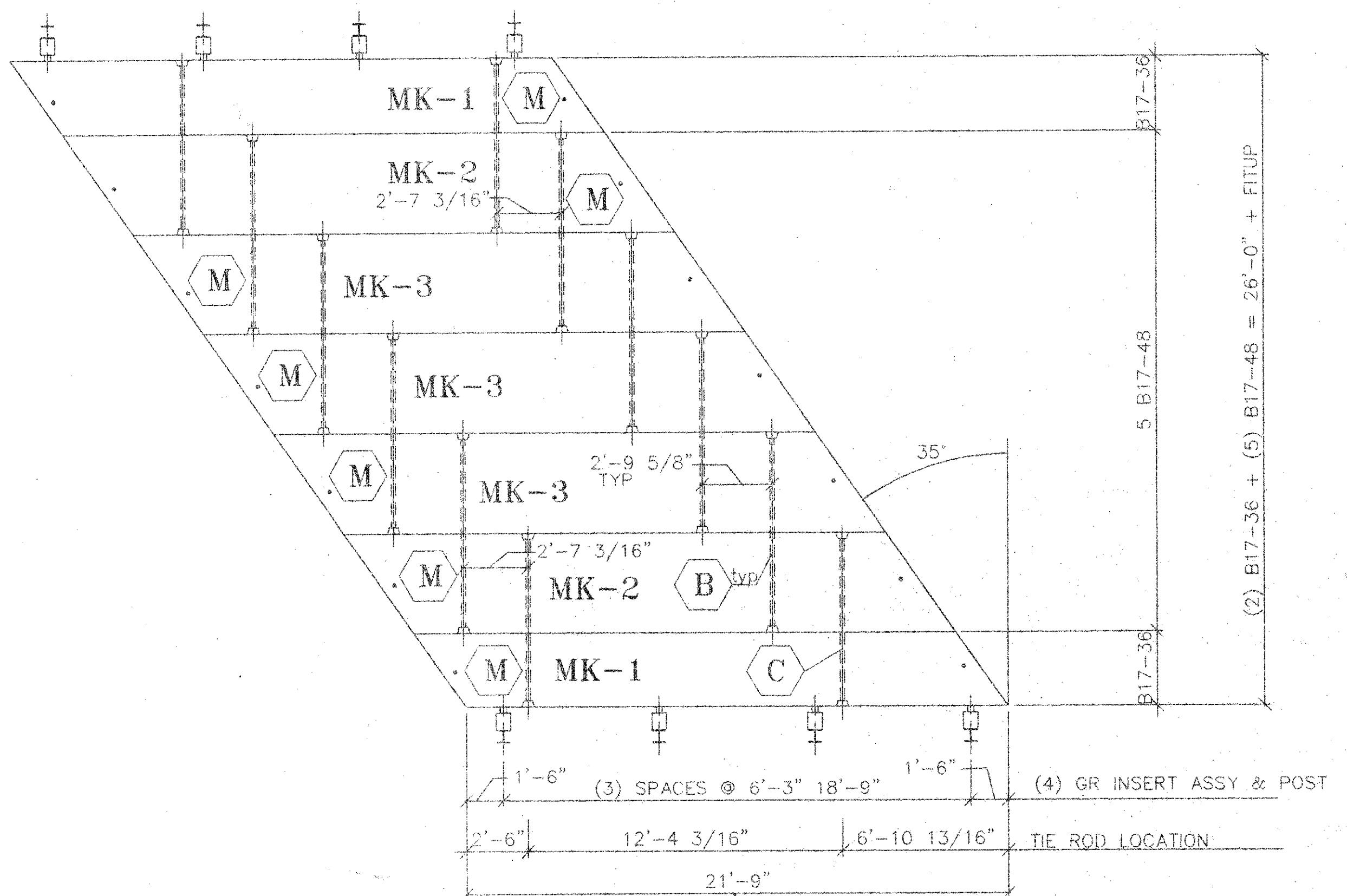
DETENTION STRANDS SYMMETRICALLY ABOUT CENTERLINE OF BEAM IN ACCORDANCE WITH STANDARD RECOGNIZED PRACTICES.

TRANSVERSE TIE RODS SHALL BE 1" DIAMETER STEEL ROD OF GRADE A311 G1018 STEEL.

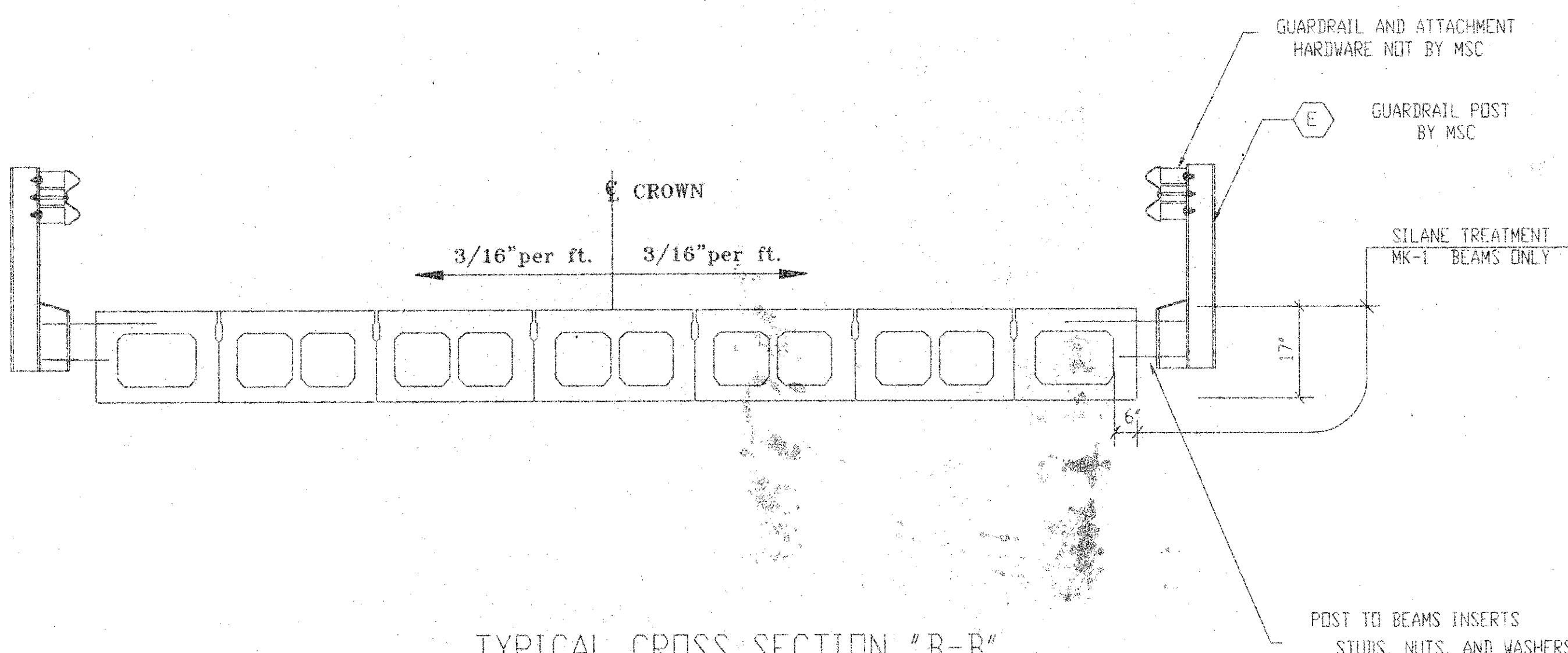
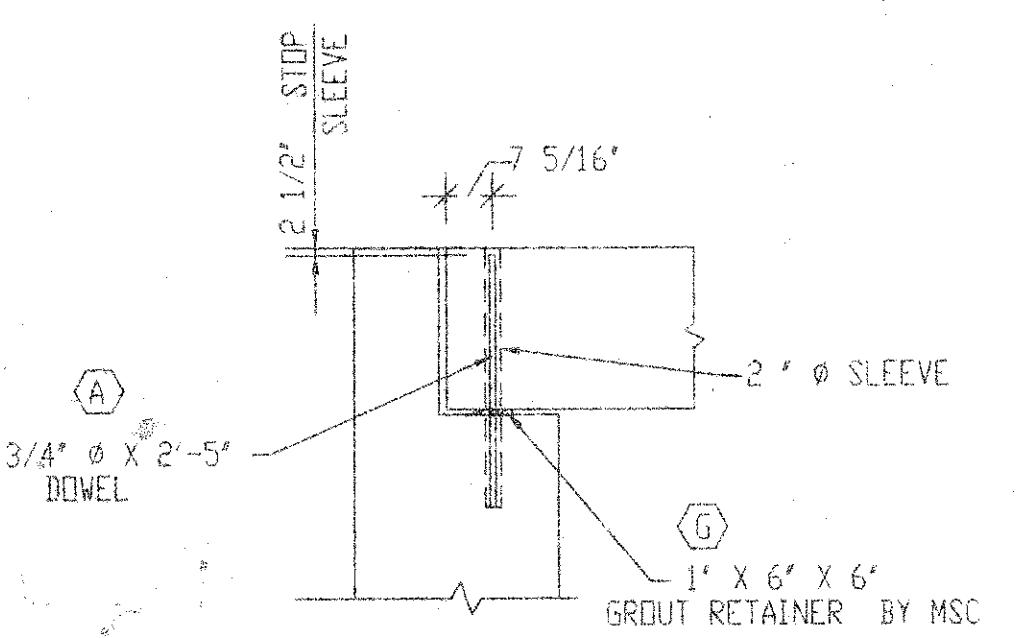
CALCIUM NITRITE CORROSION INHIBITOR ADMIXTURE TO BE ADDED TO CONCRETE MIX AT THE RATE OF 4.0 GALLONS PER CUBIC YARD OF CONCRETE. W.R.GRACE B.C.I.

FURNISHED BY MARIETTA STRUCTURES

- (A) 3/4" ϕ X 2'-5" SMOOTH BOWEL
- (B) 1" ϕ X 7'-11" TIE RODS W/(2) NUTS AND (2) 1/2" X 4" X 4" R
- (C) 1" ϕ X 6'-11" TIE RODS W/(2) NUTS AND (2) 1/2" X 4" X 4" R
- (D) 6" X 6" X 1" PREFORMED JOINT FILLER
- (E) 9" X 12" X 1" BEARING PADS
- (F) GALVANIZED GR POST TYPE 2
- (44LF) STAINLESS STEEL DRIP STRIP
- (6) STAINLESS STEEL DRIP STRIP X 12' LG



TYPICAL PLAN



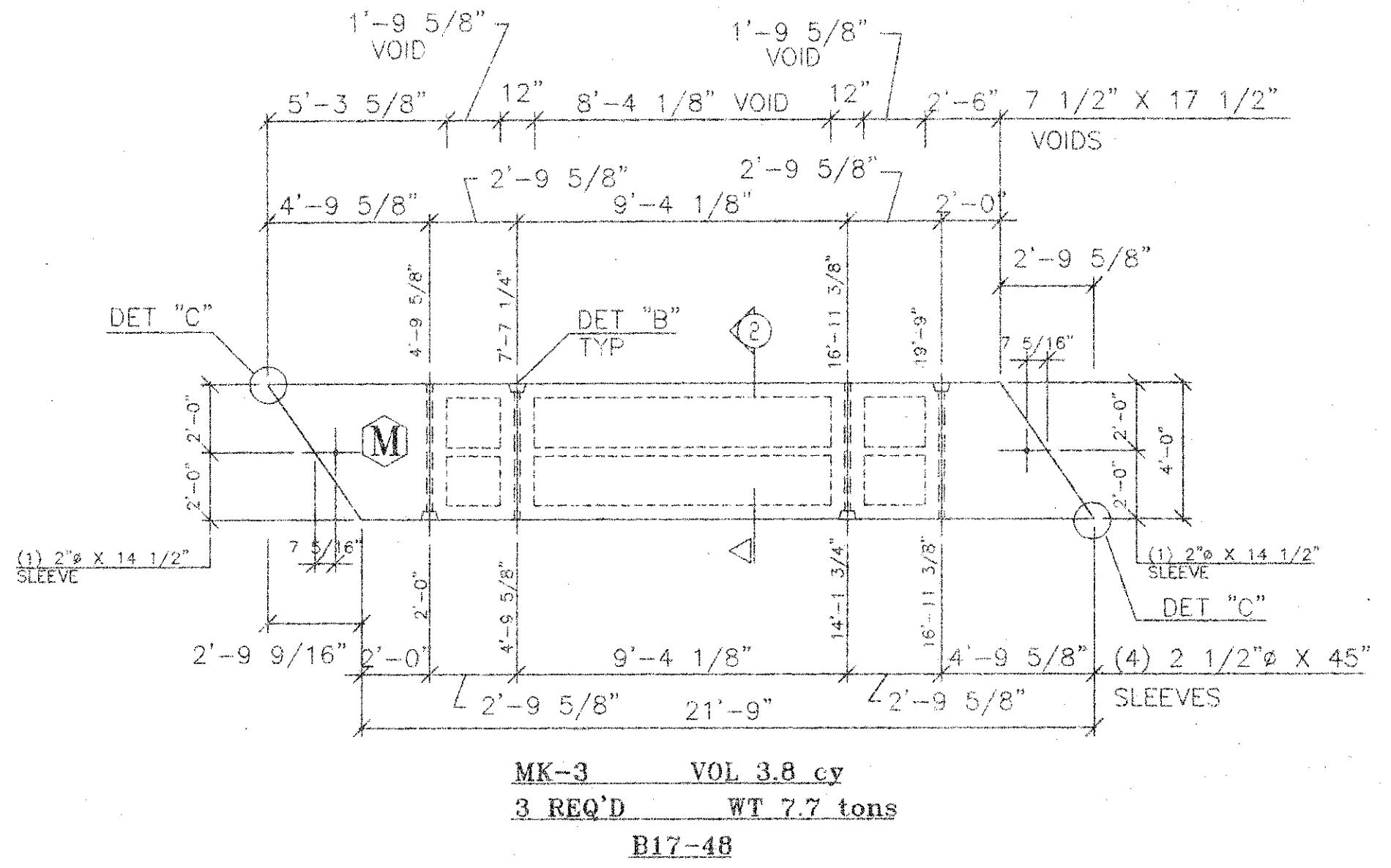
POST TO BEAMS INSERTS
STUDS, NUTS, AND WASHERS
BY MSC.

DATE	ISSUED TO	NO	DATE	ISSUED TO	NO	DATE	DESCRIPTION OF REVISION	BY	IND	DATE	DESCRIPTION OF REVISION	BY

MARIETTA
STRUCTURES

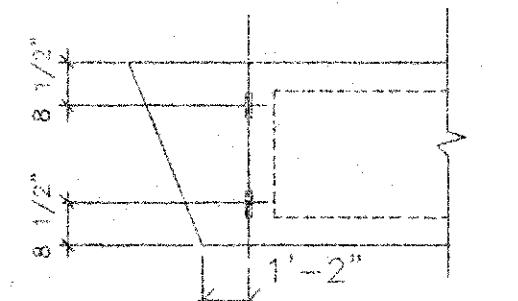
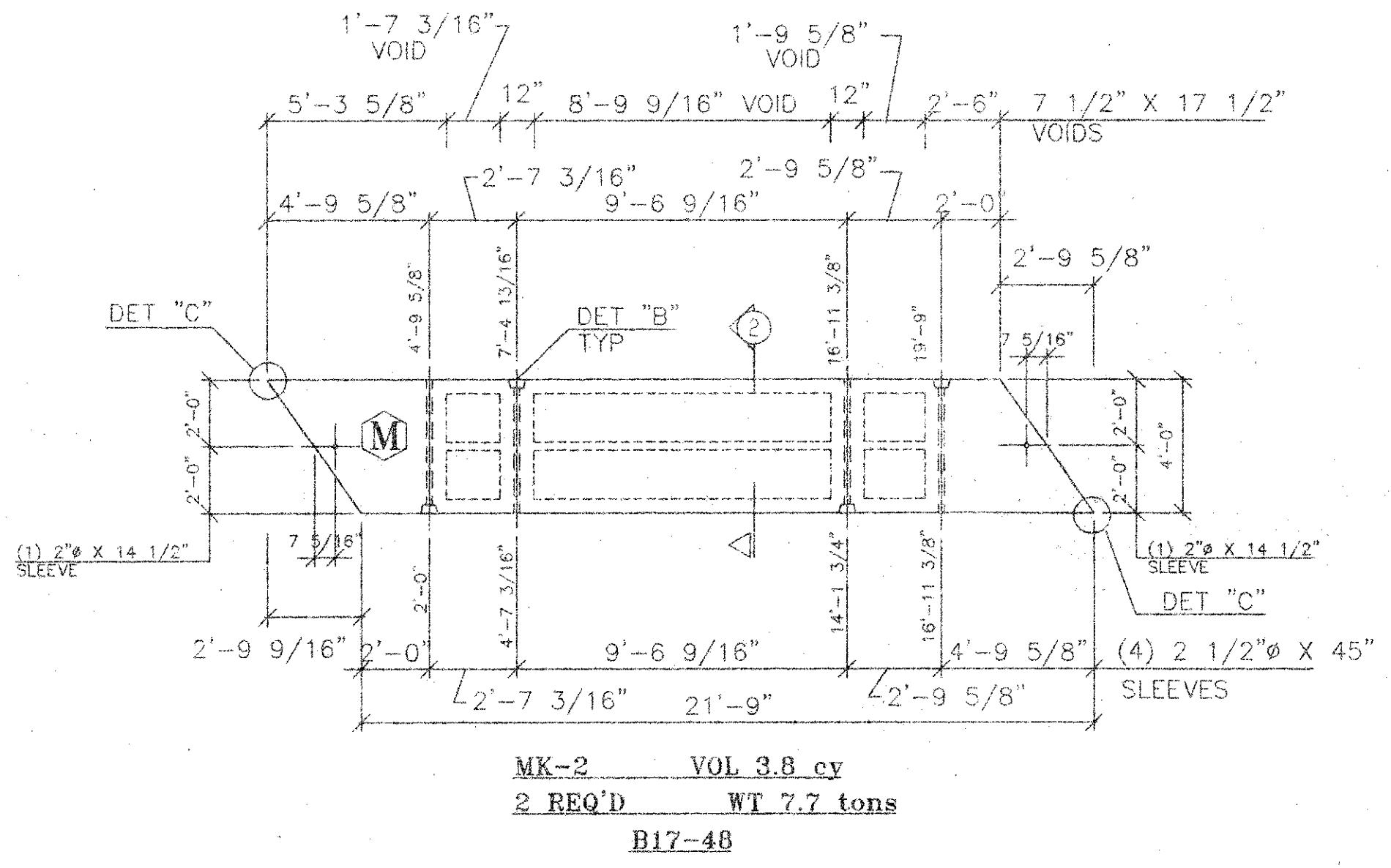
MARIETTA STRUCTURES CORP.
P.O.BOX 653, MARIETTA, OHIO 45750
PHONE 614/373-2400

JOB:	ODOT 529-95	DRAWN BY: <i>ARM</i>
BRIDGE #	ADA-348-0714	DATE: 9/12/96
LOCATION:	ADAMS COUNTY OH	CHECKED BY: <i>JS</i>
ARCHITECT:	ODOT DISTRICT #9	DATE: 9/12/96
CONTRACTOR:	ODOT DISTRICT #9	JOB: 824
SHEET TITLE:	BRIDGE PLAN AND DETAILS	DWG NO: <i>REV</i>

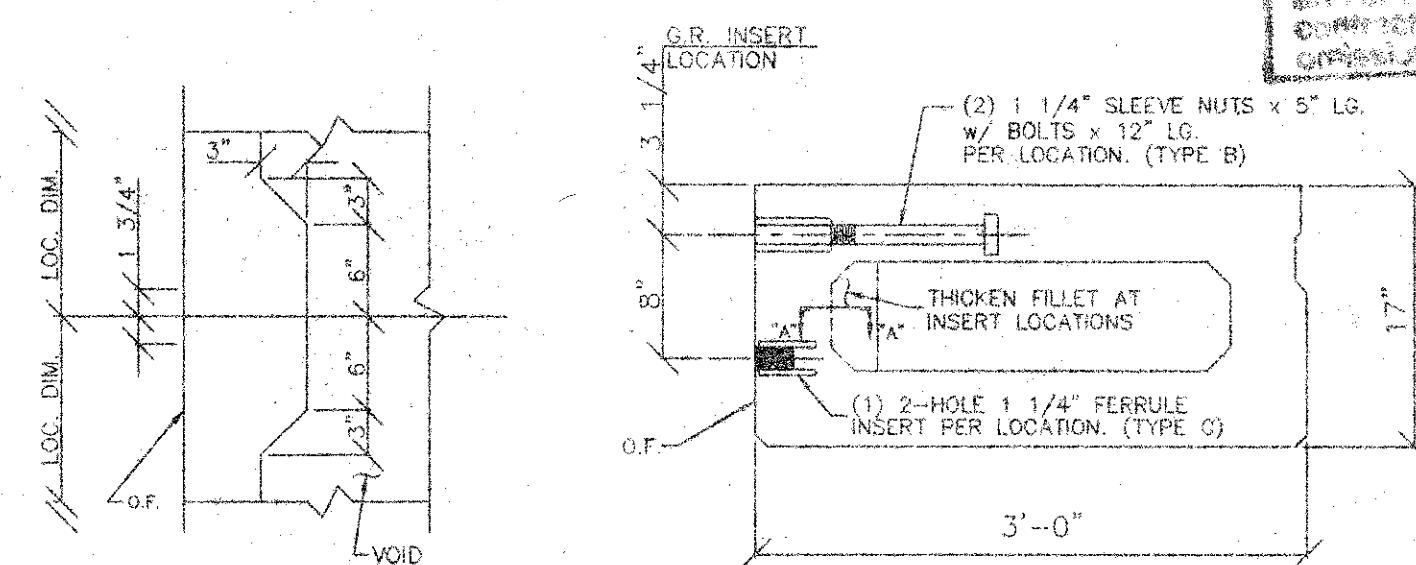
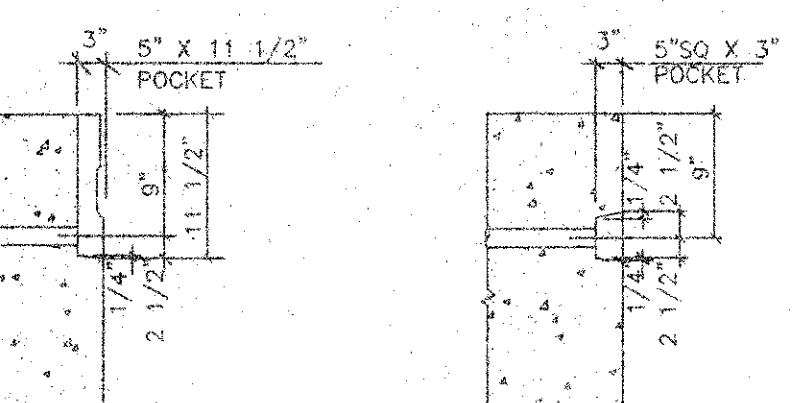
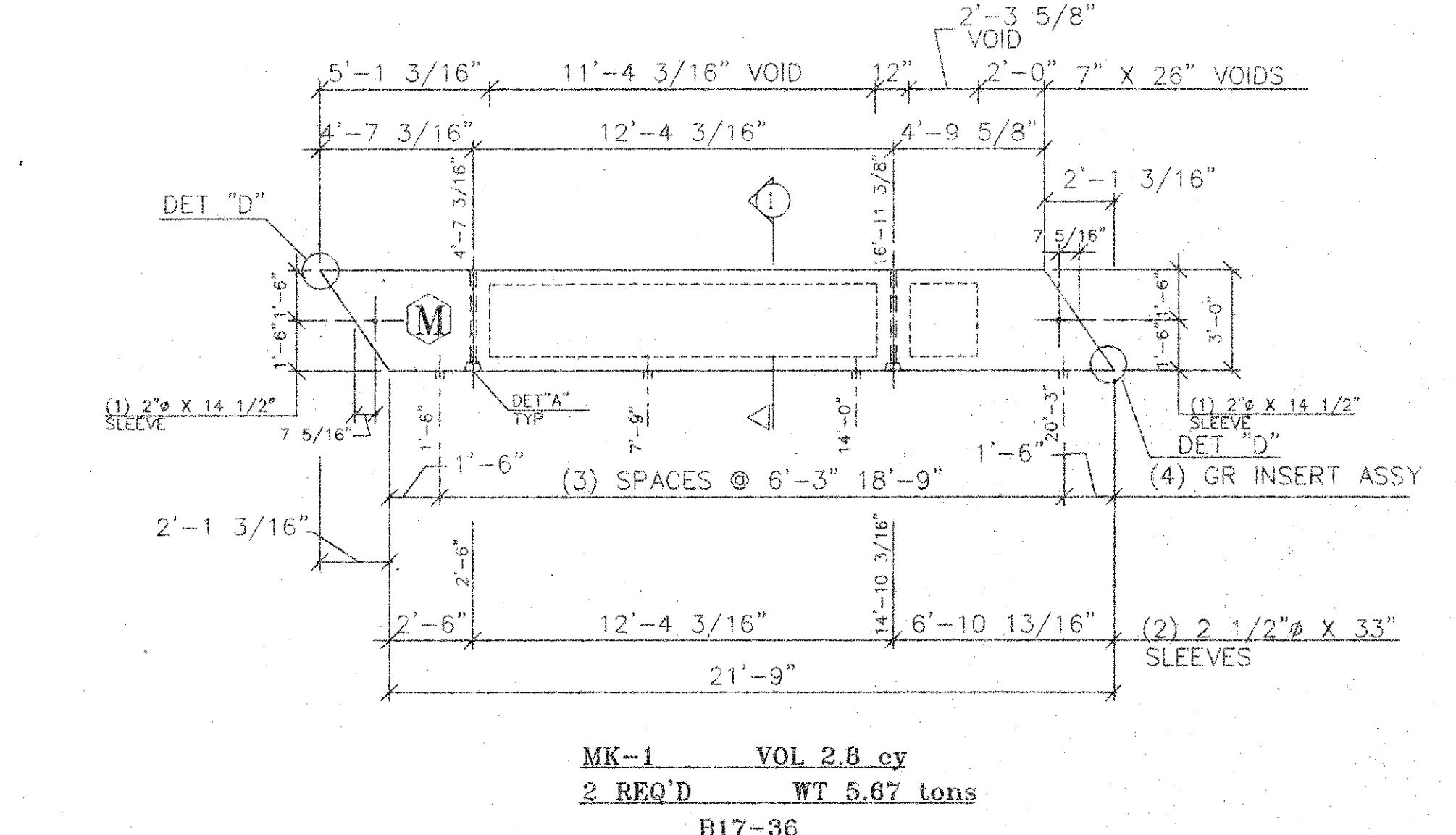


BILL OF MATERIALS

QUAN PER PC	MK-NO	DESCRIPTION	TOTAL QUANTITY
1	MK-1 (2) BEAMS		
1	7' X 26' VOID X 11'-4 3/16"		2
1	7' X 26' VOID X 2'-3 5/8"		2
4	5' VOID DRAINS		8
2	2' Ø X 14 1/2" SLEEVES		4
2	2 1/2" Ø X 33" SLEEVES		4
8	TYPE "B" GUARDRAIL INSERTS		16
4	TYPE "C" GUARDRAIL INSERTS		8
2	MK-2 (2) BEAMS		
2	7 1/2" X 17 1/2" VOID X 8'-9 3/16"		4
2	7 1/2" X 17 1/2" VOID X 1'-9 5/8"		4
12	7 1/2" X 17 1/2" VOID X 1'-7 3/16"		4
2	4 1/2" VOID DRAINS		24
2	2' Ø X 14 1/2" SLEEVES		4
4	2 1/2" Ø X 45" SLEEVES		8
2	MK-3 (3) BEAMS		
4	7 1/2" X 17 1/2" VOID X 8'-4 1/8"		6
4	7 1/2" X 17 1/2" VOID X 1'-9 5/8"		12
12	4 1/2" VOID DRAINS		36
2	2' Ø X 14 1/2" SLEEVES		6
4	2 1/2" Ø X 45" SLEEVES		12

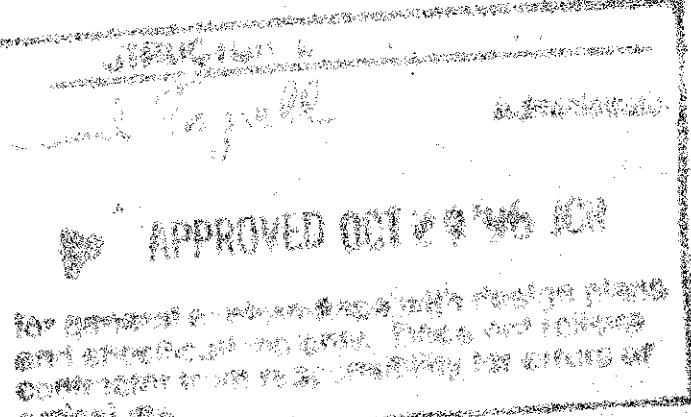


LIFTING DETAIL



VIEW "A-A"

SECTION (1)



NOTE:
THE REMAINDER
OF SECT (1) NOT
DETAILED IS
IDENTICAL TO
SECT (2)

B17-36

DATE	ISSUED TO	NO	DATE	ISSUED TO	NO	DATE	DESCRIPTION OF REVISION	BY IND	DATE	DESCRIPTION OF REVISION	BY

MARIETTA
STRUCTURES

MARIETTA STRUCTURES CORP.
P.O.BOX 653, MARIETTA, OHIO 45750
PHONE: 614/373-2400

JOB#	ODOT 529-95		DRAWN BY	GR
LOCATION	BRIDGE # ADA-348-0714		DATE	9/13/96
	ADAMS COUNTY OH		CHECKED BY	JS
			DATE	9/13/96
ARCHITECT	ODOT DISTRICT #9		JOB#	824
CONTRACTOR	ODOT DISTRICT #9		DWG NO.	REV.
SHEET TITLE	BRIDGE PLAN AND DETAILS			

11"

8.5"

8.5"

11"

MAR-511
Rev. 1-78STATE OF OHIO
DEPARTMENT OF TRANSPORTATIONCounty AdamsS.R. 348Section 00.00Structure No. ADA-348-0714Over Cedar Run

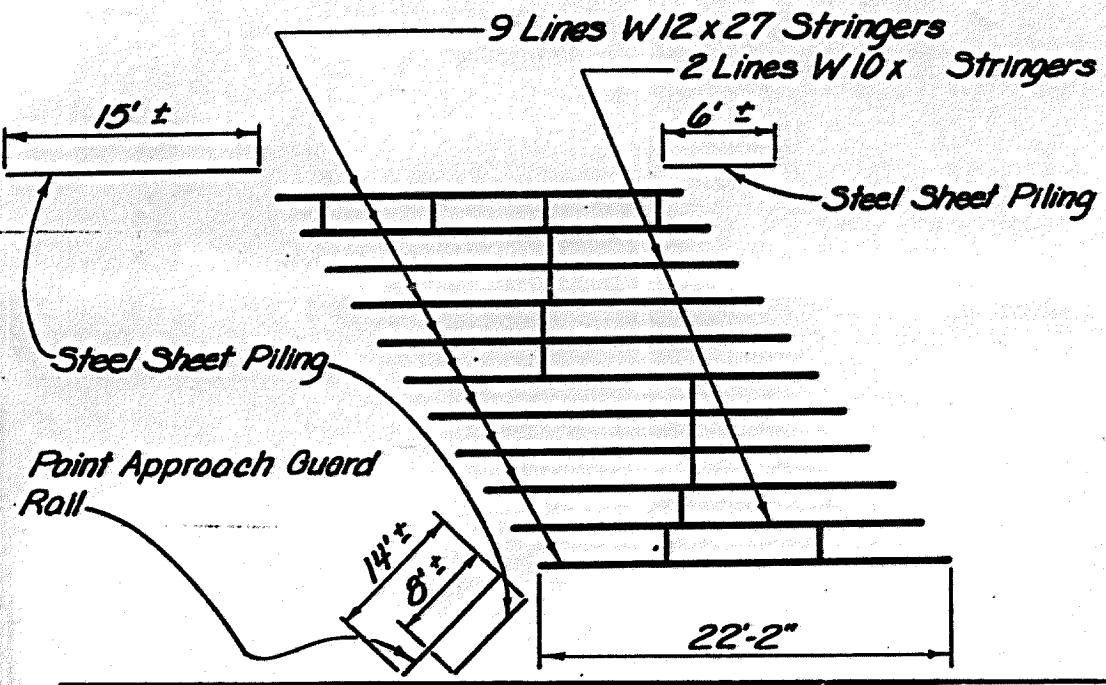
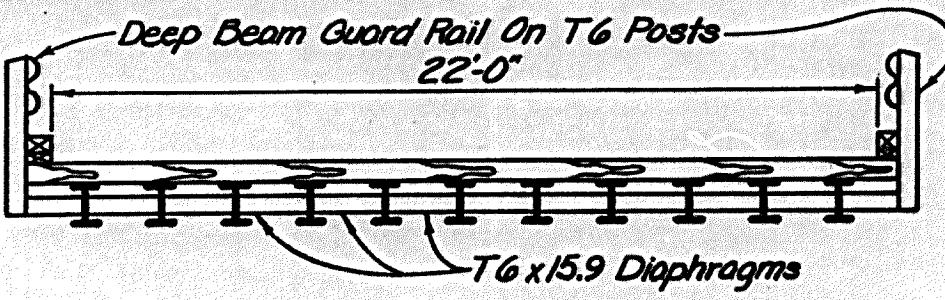
DESCRIPTION OF WORK REQUIRED

Details per Std. Dr. No.

Part 3

STRUCTURE DATA:

TYPE: Steel Beam Simple
 LENGTH: 22'-2"
 WIDTH: 22'-0"
 RAIL: Deep Beam On T 6 Posts
 6'-0" Grade To Stream Bed

MICROFILMED
FEB 28 1991

SFN|0|04264

11"

8.5"

8.5"

11"

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
514	Lump Sum	Field painting of existing steel - Surface preparation
514	Lump Sum	Field painting of existing steel - Full prime - System A
514	Lump Sum	Field painting of existing steel - Complete coat finish - System A

PLAN NO. BR- 3-86

7
23

ADA - 348 - 0714

REV. 8-1-78
MICROFILMED
DISTRICT 09
FEB 28 1991

BRIDGE PAINTING
LOCATION AND GENERAL SUMMARY

PLAN NO. BP-3-86

22
23

PART	COUNTY, ROUTE & BRIDGE NO.	CITY	VILLAGE	GENERAL SUMMARY				REMARKS	
				SURFACE PREPARATION	ITEM 514 FIELD PAINTING OF EXISTING STEEL				
					SPOT PRIME	SYSTEM A / SYSTEM B COMPLETE COAT PRIME	SYSTEM A / SYSTEM B COMPLETE COAT FINISH		
1	ADA-348-0489			Lump Sum		Lump Sum	Lump Sum		
2	ADA-348-0502			Lump Sum		Lump Sum	Lump Sum		
3	ADA-348-0714			Lump Sum		Lump Sum	Lump Sum		
4	BRO-131-0328			Lump Sum	Lump Sum		Lump Sum		
5	BRO-353-0126			Lump Sum		Lump Sum	Lump Sum		
6	BRO-353-0278			Lump Sum		Lump Sum	Lump Sum		
7	BRO-763-0423			Lump Sum		Lump Sum	Lump Sum		
8	HIG-62-1739			Lump Sum		Lump Sum	Lump Sum	As Per Plan	
9	HIG-321-0620			Lump Sum	Lump Sum		Lump Sum		
10	PIK-23-0618 R			Lump Sum	Lump Sum		Lump Sum		
11	PIK-23-1034 R			Lump Sum		Lump Sum	Lump Sum		
12	PIK-32-1774			Lump Sum		Lump Sum	Lump Sum		
13	PIK-124-0747			Lump Sum	Lump Sum		Lump Sum		
14	PIK-772-1025			Lump Sum		Lump Sum	Lump Sum		
				141	MAINTAINING TRAFFIC			141 LUMP SUM	
				142	MOBILIZATION			142 LUMP SUM	

SFN 0104264

8.5"

8.5"

11"

11"

TYPE OF BRIDGE	Steel Beam	(80%) NO. OF SPANS	1	ENCASED OR GUNITED	DATE BUILT	Superst. 1960 MIR
APPROX. SAFE LOAD CAPACITY OF STRUCTURE	S-16.2 (16-62) 4" W.S.		OF FLOOR SYSTEM			
CLEAR SPAN	LENGTH OUT TO OUT OF FLOOR	WIDTH BETWEEN GUARDS OR FELLOE GUARDS	WIDTH OUT TO OUT OF SUPERSTRUCTURE	WIDTH OF SIDEWALKS	HEIGHT OF FLOOR ABOVE BRIDGE SEAT	PROVISION FOR EXPANSION
18'-8 3/8"	22'-2 1/2"	22'-0 5/8"	23'-4 1/8"	—	1'-7"	ROLLER NEST ROCKERS SLIDING ✓

TYPE AND SIZE OF RAILING OR HUB GUARD Steel Beam Deep on 6" T Post

TYPE AND SIZE OF CURB OR FELLOE GUARD 8" x 6" Crea. on 4x8" Risers

DESCRIPTION OF FLOOR DRAINAGE

ALIGNMENT AND SKEW OF STRUCTURE Tan 35° R.F.

APPROACH SLABS

LENGTH

STREAM Cedar Run

HEIGHT FROM GRADE TO STREAM BED 6.2'

HEIGHT FROM GRADE TO HIGH WATER

CHANNEL CHARACTERISTICS APPROX. WIDTH BETWEEN BANKS 20'

CHANNEL DEPTH 4'

NATURE OF BOTTOM Gravel & Mud

CONDITION OF BANKS Brushy

ALIGNMENT OF STREAM ABOVE AND BELOW STRUCTURE 80° F. Above, 60° R Below

SKEW OF NORMAL FLOW Same

SKEW OF FLOOD FLOW 30° R. Above, 30° R. Below

BEAM SPANS

STD. DRAWING NO.

LENGTH C. TO C. OF END BEARINGS	20'-6"	SHAPE AND SIZE OF INSIDE BEAMS	9 - 12" x 6 1/2" WF @ 27 #
LENGTH OVER ALL	22'-2 3/8"	SHAPE AND SIZE OF OUTSIDE BEAMS	2 - 12" x 6 1/2" WF @ 27 #
SPACING OF BEAMS	2'-0"		

PLATE GIRDER

STD. DRAWING NO.

LENGTH C. TO C. OF END PINS OR BEARINGS		FLANGE SECTION AT CENTER	TOP
LENGTH OVER ALL		AT CENTER	BOT-TOM
HEIGHT BACK TO BACK OF ANGLES		SIZE AND SPACING OF RIVETS IN BOTTOM FLANGE	AT CENTER
WEB THICKNESS			

INTERMEDIATE FLOOR BEAMS

END FLOOR BEAMS

SECTION

CON-	NO. & SIZE RIVETS
NEC-	F.B. TO CONN.
TIONS	NO. & SIZE RIVETS CONN. TO GIRDER

FLOOR JOISTS Diaphragms

KIND	NO. LINES	SIZE	WIDTH OF FLANGE	THICKNESS OF WEB	SPACING
IBEAMS	Inside	8 - 6" T @ 15.9 #			6'-6" ±
CHANNELS	Outside	8 - 6" T @ 15.9 # 4 ca. side			6'-6" ±
WOOD		SIZE, TREAT- MENT, SPECIES			

DO JOISTS REST ON TOP OF FLOOR BEAMS?

HOW FRAMED TO FLOOR BEAMS?

ARE SHELF ANGLES USED?

END JOISTS - LENGTH

SUPPORTS

REINFORCED CONCRETE SLAB

FLOOR

INCHES THICK

CONCRETE

INCHES THICK ON CORRUGATED ARCHES OR BUCKLE PLATES

WEARING SURFACE Bituminous

THICKNESS 2"

PLANK SIZE, TREAT-
MENT, SPECIES

STRIP SIZE, TREAT-
MENT, SPECIES 6" Crea. Pine (1960)

HOW FASTENED
TO JOISTS

Steel Floor Clips

SUB-STRUCTURE

STD. DRAWING NO.

ABUTMENTS AND PIERS	MATERIAL	TYPE	HEIGHT FOOTER TO BRIDGE SEAT	WIDTH OF BRIDGE SEAT	LENGTH OF BRIDGE SEAT	FOUNDATIONS (PILING)	WINGS (LENGTHS, ANGLES ETC.)
REAR	Conc.	Gravity		1'-5"	32'		1'-9" @ 0° 4'-0" @ 0°
FORWARD	Conc.	"		1'-5"	32'		1'-9" @ 0°, 3'-3" @ 0°, 15'-10" @ 45°
PIER							
PIER							

BRIDGE NO.	COUNTY	ROUTE NO.	S. H. NO.	SECTION	STRENGTH	ROADWAY	CLEARANCE	TYPE
ADA 348-0703	Adams	348			H10 H12 H15 H20 15-18 19-22 23 +	12 - 12-14 14 OPEN	A B G S T	2

ADA-348-0703 Adams

348

2

COUNTY

SKETCH NO.

S. N. NO.

SECTION

STRENGTH

ROADWAY

CLEARANCE

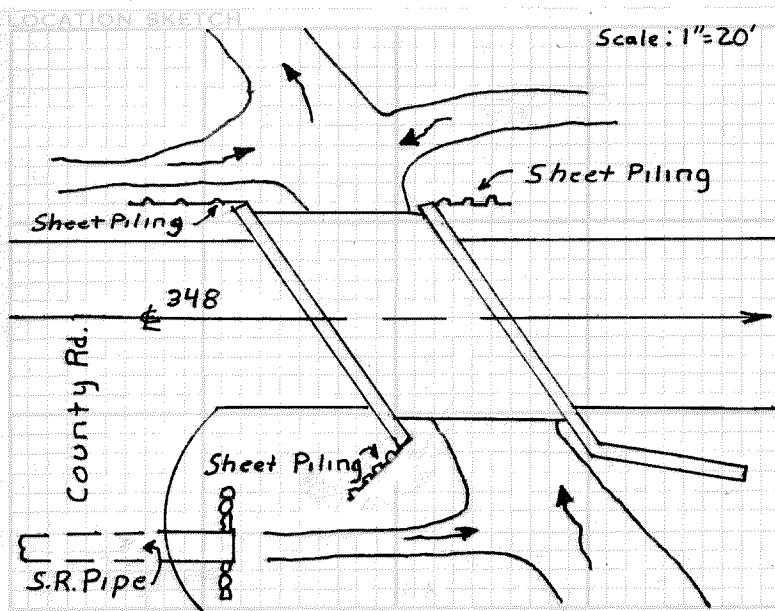
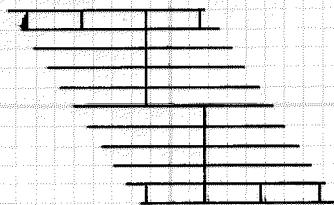
SKETCH OF STRUCTURE SHOWING DIMENSIONS

RESPONSIBILITY-AUTHORITY

INSPECTION - State of MD - Sec. 5501.23RC.

MAINTENANCE - State of MD - Sec. 5501.02RC.

Diaphragm
Location



REMARKS:

NEW SUPERSTRUCTURE BY M&E FORCES 1960

4.7 TON EST. WT.

PAINTED 1964 WT. 4.7 PROJ. 230

Painted 1978 Proj. 406 L 301
Painted 1981 Proj. 381 (81) Carbonastic 15.

Painted 1986 Proj. 31486 SYSTEM A
CONTRACTOR - ATLANTIC PAINTERS

DRAINAGE AREA = 949.52 Acres Q₂₅ = 723 cfs Q₁₀₀ = 1046 cfs

9-17-90 GREG BAIRD

STATE OF OHIO - DEPT. OF HIGHWAYS
BUREAU OF BRIDGES

818 STEEL BEAM AND GIRDER BRIDGES

DATE 6-6-61

BR.
ACME 15789-B

TYPE OF BRIDGE	Steel Beam (80%)	NO. OF SPANS	1	ENCASED OR GUNITED	OF FLOOR SYSTEM	DATE BUILT	Superst. 1960 M&R
APPROX. SAFE LOAD CAPACITY OF STRUCTURE	S-16.2 (140%) 4" W.S.						
CLEAR SPAN	LENGTH OUT TO OUT OF FLOOR	WIDTH BETWEEN GUARDS OR FELLOE GUARDS	WIDTH OUT TO OUT OF SUPERSTRUCTURE	WIDTH OF SIDEWALKS	HEIGHT OF FLOOR ABOVE BRIDGE SEAT	ROLLER NEST	PROVISION FOR EXPANSION ROCKERS SLIDING
18'-8 3/8"	22'-2 1/2"	22'-0 5/8"	23'-4 7/8"	—	1'-7"	—	✓
TYPE AND SIZE OF RAILING OR HUB GUARD Steel Beam Deep on 6" T Post							
DESCRIPTION OF FLOOR DRAINAGE							
ALIGNMENT AND SKEW OF STRUCTURE	Tan 35° R.F.	APPROACH SLABS					LENGTH
STREAM	Cedar Run	HEIGHT FROM GRADE TO STREAM BED					HEIGHT FROM GRADE TO HIGH WATER
CHANNEL CHARACTERISTICS	APPROX. WIDTH BETWEEN BANKS 20'	CHANNEL DEPTH 4'	NATURE OF BOTTOM Gravel & Mud				
CONDITION OF BANKS	Brushy	ALIGNMENT OF STREAM ABOVE AND BELOW STRUCTURE 80° F. Above, 60° R Below					
SKEW OF NORMAL FLOW	Same	SKEW OF FLOOD FLOW 30° F. Above, 30° R. Below					

BEAM SPANS

STD. DRAWING NO.

LENGTH C. TO C. OF END BEARINGS	20'-6"	SHAPE AND SIZE OF INSIDE BEAMS	9 - 12" x 6 1/2" WF @ 27#
LENGTH OVER ALL	22'-2 3/8"	SHAPE AND SIZE OF OUTSIDE BEAMS	2 - 12" x 6 1/2" WF @ 27#
SPACING OF BEAMS	2'-0"		

PLATE GIRDER

STD. DRAWING NO.

LENGTH C. TO C. OF END PINS OR BEARINGS		FLANGE SECTION AT CENTER	TOP BOT. TON
LENGTH OVER ALL			
HEIGHT BACK TO BACK OF ANGLES		SIZE AND SPACING OF RIVETS IN BOTTOM FLANGE	
WEB THICKNESS		AT CENTER	

INTERMEDIATE FLOOR BEAMS

END FLOOR BEAMS

NO. AND SPACING

SECTION

CON- NECT- IONS	NO. & SIZE RIVETS F.B. TO CONN.
	NO. & SIZE RIVETS CONN. TO GIRDER

FLOOR JOISTS Diaphragms

KIND	NO. LINES	SIZE	WIDTH OF FLANGE	THICKNESS OF WEB	SPACING
BEAMS	Inside	8 - 6" T @ 15.9#			6'-6" ±
CHANNELS	Outside	8 - 6" T @ 15.9# 4 ea. side			6'-6" ±
WOOD		SIZE, TREAT- MENT, SPECIES			

DO JOISTS REST ON TOP OF FLOOR BEAMS?

ARE SHELF ANGLES USED?

FLOOR

INCHES THICK

CONCRETE

INCHES THICK ON CORRUGATED ARCHES OR BUCKLE PLATES

WEARING SURFACE TYPE Bituminous THICKNESS 2"

PLANK SIZE, TREAT-
MENT, SPECIES

STRIP SIZE, TREAT-
MENT, SPECIES 6" Crea. Pine (1960)

Steel Floor Clips

SUB-STRUCTURE

STD. DRAWING NO.

ABUTMENTS AND PIERS	MATERIAL	TYPE	HEIGHT FOOTER TO BRIDGE SEAT	WIDTH OF BRIDGE SEAT	LENGTH OF BRIDGE SEAT	FOUNDATIONS (PILING)	WINGS (LENGTHS, ANGLES ETC.)
REAR	Conc.	Gravity		1'-5"	32'		1'-9@0°, 4'-0" @0°
FORWARD	Conc.	"		1'-5"	32'		1'-9@0°, 3'-3@0° & 15'-10@45°
PIER							
PIER							

BRIDGE NO.	COUNTY	ROUTE NO.	S. H. NO.	SECTION	STRENGTH	ROADWAY	CLEARANCE	TYPE
ADA-34B-0714	Adams	348			H10 H12 H15 H20	18-18 19-22 23+	12-12-14-14 + OPEN	A B C D E F G H I

Project Location: Adams 348-07.14

The Road will be closed

Scheduled date: 16 thru 27 June 97
Number of days: 10 days Employees hours: 70

Description: Rehab this bridge structure by replacing the superstructure with concrete beams.

Actual start date:

Actual finish date:

Equipment needs:

Trackhoe

Crane

Torches

Tool Truck

Lowboy to haul steel beams away

Dumptrucks to haul waste asphalt, etc.

Concrete saw

Scheduled? Yes/no

yes Koe. T-hoe

yes by vendor (to set beams)

yes @ county garage

yes @ county garage

yes @ county garage

Qty	Material Needs	Status	Special Instruct.
1	concrete beams, 21' 9" x 26'	stored@plant	setup delivery
1	waterproof material	P.O. in system	LU M Materials
20	set 45	district	grout
180 ft	guardrail	district	
72 ft	tubular guardrail	district	
15 ton	asphalt	county P.O.	wearing surface
52 ft	Joint material/blackboard	district	
	grass seed		county
	straw		county

This job is complete 6/24/97

The rail will be finished by contract

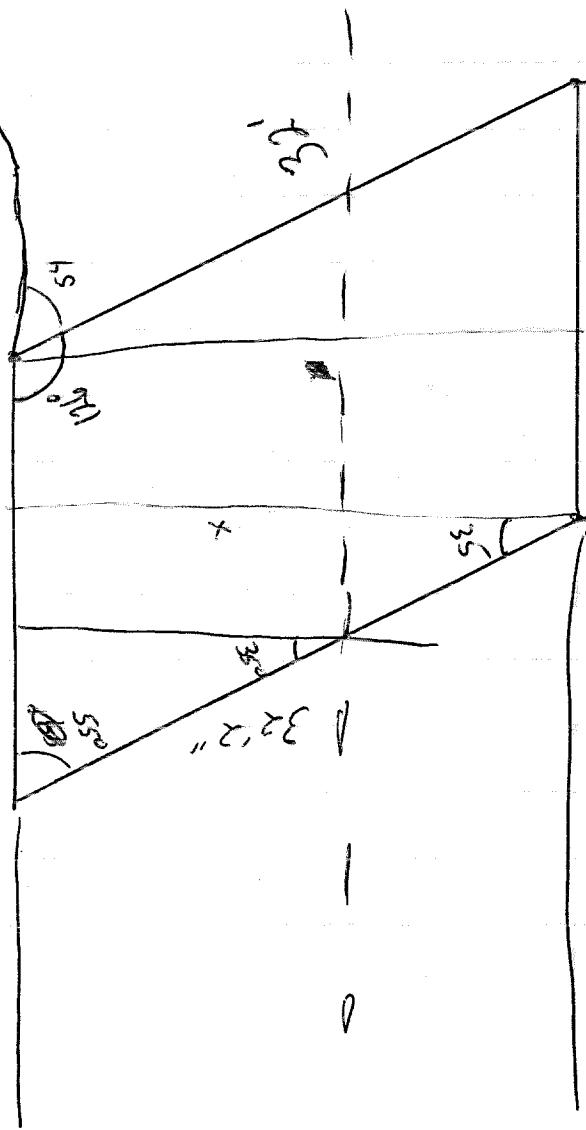
MAX 348 - 0714

Proposed Dimensions

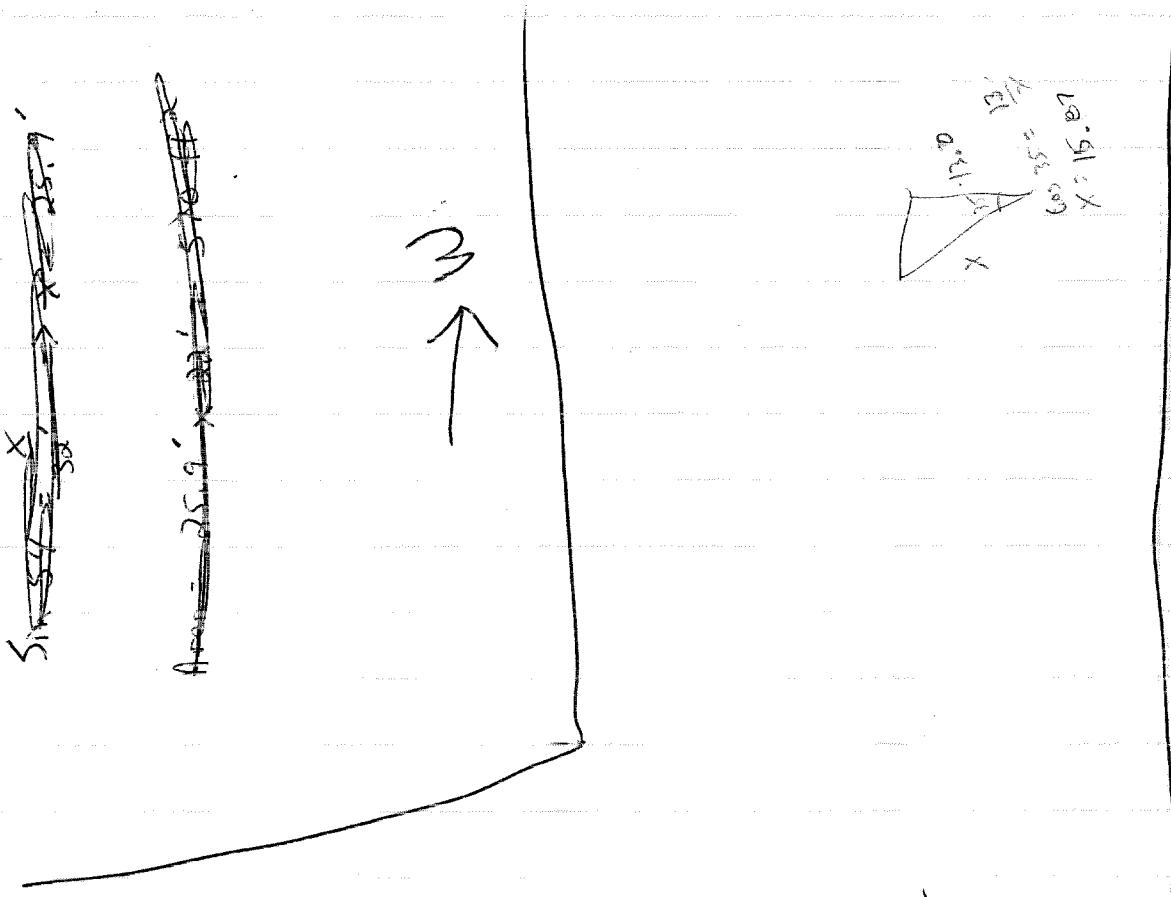
$$\text{area} = 26.21' \times 22' = 576.62 \text{ ft}^2$$

$$\cos 35^\circ = \frac{x}{32}$$

35° R.F.
skew.



Height from abutment seat to top of road = 23 "



OHIO DEPARTMENT OF TRANSPORTATION

DOC TYPE: COM POR CNT ORD
 ACTION CODE: ENTER CANCEL MODIFY
 TYPE CODE: 02

PURCHASE ORDER

P.O. NO DATE
 078706 06/17/96
 REQUISITION NO
 083466

CONTRACT-BID-CIH DOT52996		EXPIRATION DATE 06/29/96		GDC#		CONTROL BD. NO.		RELEASE/PERMIT NO.														
VENDOR NO. 311133140		ADD CD 01		JOURNAL ENTRY - VOL. PG		+/-		TOTAL AMOUNT 26,700.00														
VENDOR NAME AND ADDRESS MARIETTA STRUCTURE CORP PO BOX 653 MARIETTA OH 45750 614-373-2460		MBE = N		VENDOR CONTACT PERSON/PHONE NO. TROY HUFF, ABE		DELIVERY REQUIRED(DATE/ARO) 8/12/96		PRE-APPROVAL ID														
BILL TO: ODOT, DISTRICT 9 C/O NEIL COUNTRYMAN, AUDITOR P.O. BOX 467 CHILLICOTHE, OHIO 45601		SHIP TO: F.O.B DEST. ADA-348-0714, LOCATED 7.14 MILES EAST OF S.R. 125.		INVOICES MUST INCLUDE "SHIP TO" - NAME AND ROOM NUMBER.																		
LINE	FUND	YEAR	ARC	SAC	SRC	RCAT	ACTV	OBJCT	SUB-OBJCT	CODE	LINE AMOUNT	ITEM NUMBER										
01	002	96	1773	4312	0009	0061		262			26,700.00											
LINE	FUND	YEAR	ARC	SAC	SRC	RCAT	ACTV	OBJCT	SUB-OBJCT	CODE	LINE AMOUNT	ITEM NUMBER										
ITEM	QUANTITY	UNIT	CLASS, ITEM, SPECIFICATION NUMBER AND DESCRIPTION									UNIT PRICE	AMOUNT									
01	1	LUMP	210 16 00 0000 PRESTRESSED CONCRETE BOX BEAMS CONCRETE BEAMS, PRESTRESSED, B17-48 AND B17-36, 21'-9" O/O SPAN BY 26'-0" O/O ROADWAY WIDTH, 35 DEGREE R.F. SKEW, AND RELATED HARDWARE AS PER THE ATTACHED SPECIFICATIONS AND DRAWINGS. VENDOR WILL BE REQUIRED TO FABRICATE, DELIVER, AND SET BEAMS WITH CRANE ON ODOT PREPARED ABUTMENTS. BEAMS SHALL BE FABRICATED, TESTED AND READY FOR DELIVERY BY SEPTEMBER 15, 1996. TESTING REQUIREMENTS: TE-24 FOR CONCRETE BEAMS AND STAINLESS STEEL DRIP STRIP. ELASTOMERIC BEARING PADS AS PER "CMS" 711.23. TYPE 2 POST AS PROPOSAL NOTE 540.																		26,700.00	26,700.

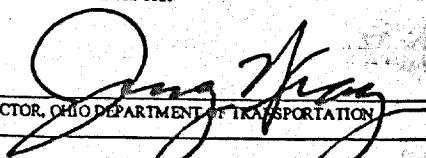
I HEREBY CERTIFY THAT THERE IS A BALANCE IN THE APPROPRIATION NOT OTHERWISE OBLIGATED TO PAY PRECEDENT OBLIGATIONS, PURSUANT TO WHICH THE OBLIGATION DETAILED ABOVE IS TO BE PAID

THE DEPARTMENT OF ADMINISTRATIVE SERVICES, STATE PURCHASING, HEREBY AUTHORIZE USE OF THE ABOVE CONTRACT FOR THE PURCHASE.

WE HEREBY CERTIFY THAT THE GOODS OR SERVICES SPECIFIED ABOVE ARE NECESSARY FOR OUR USE.

R. GREGORY BROWNING
DIRECTOR OF OFFICE OF BUDGET AND MANAGEMENT

STEPHEN A. HUNTER
ADMINISTRATOR OF STATE PURCHASING


DIRECTOR, OHIO DEPARTMENT OF TRANSPORTATION

NOTICE TO
SUPPLIER

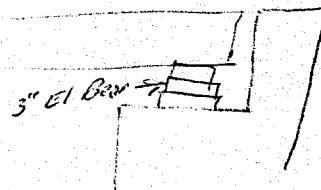
1. PURCHASE ORDER NUMBER MUST BE PLAINLY MARKED ON ALL PACKAGES AND PAPERS.
2. SUBMIT SEPARATE INVOICE IN QUADRUPPLICATE TO CONSIGNEE FOR EACH ORDER, PROMPTLY AFTER EACH SHIPMENT.
3. PRICES QUOTED ARE FIRM. OTHER THAN AS PROVIDED IN THE INVITATION TO BID, INCREASES ARE NOT AUTHORIZED AND WILL NOT BE PAID.
4. REJECTED GOODS SHALL REMAIN VENDORS PROPERTY.

DISTRIBUTION:
ORIGINAL - VENDOR
COPY - ACCOUNTING
COPY - PURCHASING
COPY - BUDGET

Material Quantities

Vendor shall be required to fabricate and supply the following items which will be included in the lump sum bid price:

- 5 each - Prestressed concrete box beam, B17-48, non-composite.
- 2 each - Prestressed concrete box beam, B17-36, non-composite.
- 14 each - 3/4" diam. by 34" long dowel bar.
- 14 each - Preformed expansion joint filler (PEJF), 6"x6"x 1" thick.
- 18 each - Elastomeric bearing pad, 9"x12"x 1" thick, as per "CMS" 516.
- 3 each - Galvanized steel bridge post, Type 2, as per "CMS" 517.03.
- 8 each - Stainless steel drip strip, 12" long.
- 16 linear feet - Stainless steel drip strip.



Lump sum price bid shall also include delivery of beams, crane and labor to set beams, and all other hardware and incidentals to complete the work as specified.

Delivery

Beams and all other incidentals shall be fabricated, tested and ready for delivery by September 15, 1996.

Vendor shall set beams in one day. Delivery shall be coordinated with ODOT contact.

Delivery location for beams shall be Ada-348-07.14, located in Adams County, 7.14 miles north of S.R. 125.

General

All questions involving design and delivery of beams shall be directed to the following designee:

ODOT contact: Troy Huff, P.E. (614) 773-2691 Ext. 276

JTH
Ada-348-0714.wpd
1996

Additional specification reference: ODOT "Construction and Material Specification" (CMS) date 1995.

Concrete Beam Design Data:

Design Loading: HS 20-44 and Alternate Military Loading

Concrete Class "C": Compressive Strength: 4000 P.S.I. (Substructure)

Concrete Class "S": Minimum compressive strength = 4500 P.S.I. (Superstructure)

Reinforcing Steel: ASTM A615, A616, or A617-Grade 60, minimum yield strength 60,000 P.S.I.
Grade 40, maximum yield strength 40,000 P.S.I. may be used in box beams.

Concrete for Prestressed Beams: Unit Stress 2200 P.S.I. Compression, 445 P.S.I. Tension

Prestressing Strand: ASTM A416 - 1/2" diameter, seven wire, uncoated, stress-relieved strand.
F's = 270,000 P.S.I., Initial stress = 0.70 F's

The key on the outside of the two facia beams shall be omitted.

The end of each beam shall have a 2" diameter hole the full depth of beam for anchor dowels. This hole shall be located 6" from end of beam and centered on centerline of beam.

Anchors shall be provided in the facia beams as per standard drawing DBR-2-73 for deep beam railing with steel tubular backup. Type 2 post shall be fabricated so that the distance from center of rail to top of asphalt concrete will be 1'-9". Slotted holes should be provided in post to allow for adjustment.

Steel Drip Strip: Drip strip shall be 22 gauge stainless steel. ASTM A167, type 304.

Elastomeric Bearings: shall comply with 516 and Articles 182.5 through 182.8 of section, Bearing Devices. Division II Construction of the AASHTO Standard Specifications for Highway Bridges. Bearings shall be Grade 3, 50 Durometer, Elastomer, and shall be subjected to the load testing requirements corresponding to design method. Testing shall be included in the lump sum bid price.

Quality Assurance

Vendor shall submit 2 sets of shop drawing of the prestressed concrete beams to the ODOT designee for approval before fabrication. Drawings shall include locations of guardrail anchor locations.

Vendor shall supply TE-24 documents for the concrete beams, stainless steel drip strips, and all other necessary hardware.

Testing data for elastomeric bearing pads shall be as per "CMS" 711.23.

Testing requirements for the Type 2 post shall be as per the attached Proposal Note 540.

ADA-348-0714

Concrete Beam Specifications

This work shall consist of fabricating, delivering, and setting a non-composite prestressed concrete beam superstructure as specified below and per the attached detail sheets.

Scope of Work

Vendor shall fabricate five each B17-48 and two each B17-36 non-composite prestressed concrete beams as per the attached Standard Drawing PSBD-1-81. Beams shall be provided with anchors, bolts and nuts for galvanized steel bridge post, Type 2 and with 2" diam. holes for anchor dowels. Vendor will be required to deliver and set beams on existing ODOT prepared abutments. Vendor shall supply elastomeric bearing pads to set beams on. ODOT field crews will erect drip strips and Type 2 guardrail post.

Proposed Structure Data

Type: Prestressed B17-48 and B17-36 non-composite concrete box beam on existing concrete substructure.

Span: 21'-9" out-to-out Brg.

Roadway: 26'-0" out-to-out Deck.

Loading: HS 20-44 and the alternate military loading.

Skew: 35 degrees R.F.

Wearing Surface: 2 1/2" (min.) Asphalt concrete

Alignment: Tangent.

Crown: n/a

General Notes

Reference shall be made to Standard Drawings:

<u>Drawing No.</u>	<u>Sheet</u>	<u>Date</u>
DBR-2-73	1	04-10-73
PSBD-1-81	1,2,3, &4	06-20-89

Design Specifications: This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway and Transportation Officials, 1992, and the Ohio "Supplement" to these specifications.

It will be the fabricator's responsibility to design the beams for required strength and camber.

4-29-96

Suggested Bidders For**PRESTRESSED BOX BEAMS**

Prestressed Services Inc.
P.O. Box 111
Decatur, IN 46733
(219) 724-7117

Top Roc Precast Corp.
2210 Manchester Road
Erie, PA 16506
(814) 838-2011

United Precast Inc.
Round House Lane
P.O. Box 991
Mt. Vernon, OH 43050
(614) 393-1121

Marietta Structures Corp.
P.O. Box 653
Marietta, OH 45750
(614) 373-2400

Sidley Precast
6900 Madison Rd.
P.O. Box 70
Thompson, OH 44086
(216) 298-3232

American Precast Concrete Inc.
1030 South Kitley Ave.
Indianapolis, IN 46203
(317) 353-2118

Post-It™ brand fax transmittal memo 7671

To	<i>Greg Shuf</i>	From	<i>Jim Binkart</i>
Co.		Co.	
Dept.	<i>D-4</i>	Phone #	<i>C.O.</i>
Fax #		Fax #	

****516,517 AND 518 - FABRICATED MEMBERS - 01/04/93**

Unless specifically waived by a plan note, all 516, 517, or 518 items shall meet the requirements of their specific section of the Construction and Material Specifications with the following modifications:

The Contractor shall submit a letter of request for fabricator approval directly to:

**Office of Structural Engineering
Structural Steel Engineer
Ohio Department of Transportation
25 South Front Street
Columbus, Ohio 43215**

The Structural Steel Engineer shall be responsible for approval of the fabricator based on specification requirements. Copies of the letter of approval shall be forwarded to the Project Engineer, District Construction Engineer, Central Office Construction Engineer and the Contractor.

Submittal, checking, review and approval of the fabricator's shop drawings are not required prior to fabrication. Fabrication of the steel commences anytime after approval of the fabricator.

518 items do not require inspection at the approved fabricator's shop. The approved fabricator of any 516 and 517 items shall notify the Structural Steel Engineer when fabrication is complete and ready for inspection. The Structural Steel Engineer will schedule the inspection and notify the fabricator based on the following criteria:

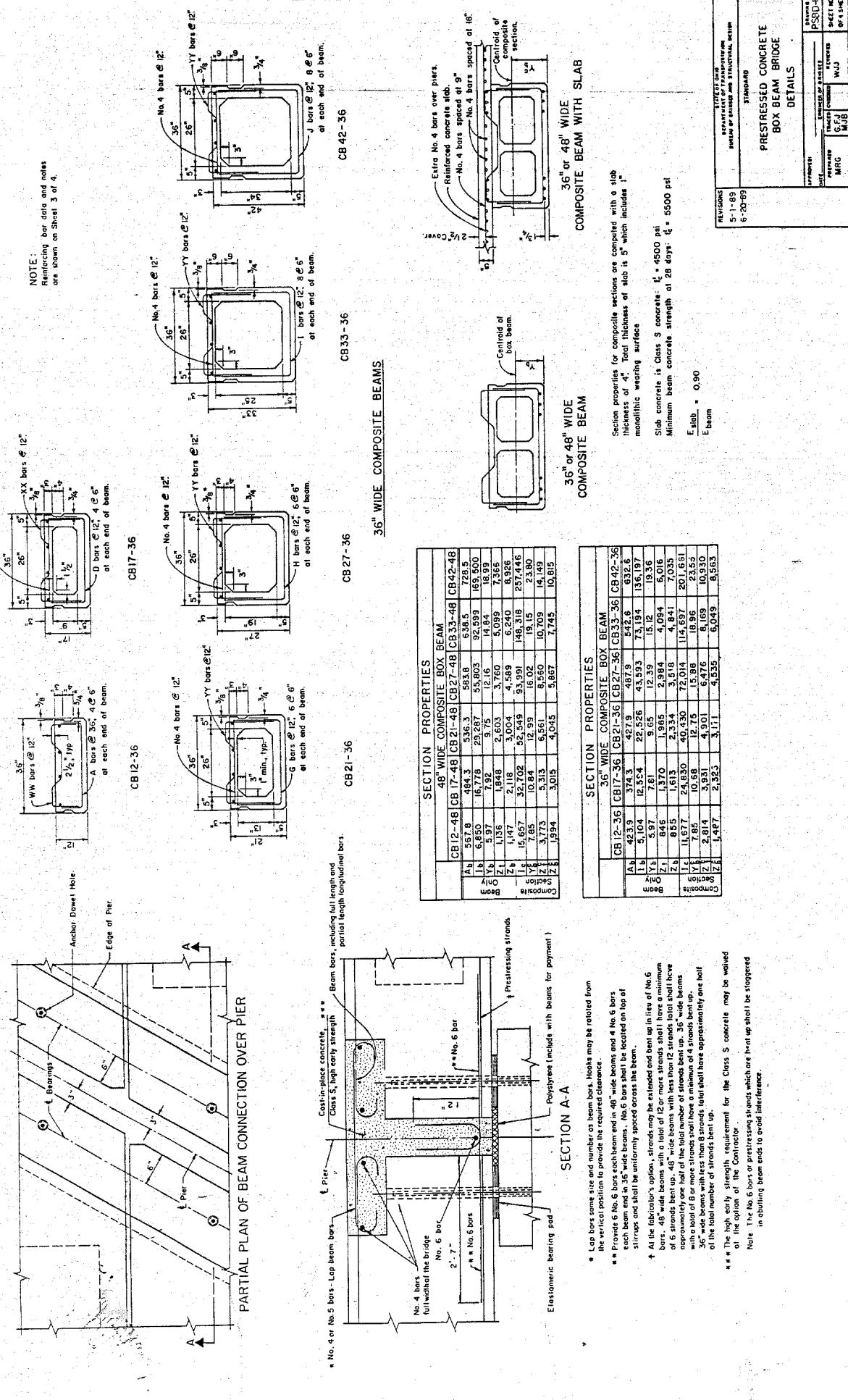
Fabricator's physical distance from Columbus, Ohio	Number of Work Days until inspections
0-240 @ (0 - 150 miles)	0 to 3 days
240-480 km (150 - 300 miles)	0 to 4 days
480+ km (300 + miles)	0 to 5 days

ODOT inspection will be performed based on two (2) sets of the fabricator's shop drawing, supplied to the inspector.

Fabricated material shipped to the jobsite shall be accompanied by a complete set of shop drawings and a letter of certification, in a format approved by ODOT, stating all materials conform to contract requirements. For all fabricated steel, test data, mill shipping notices and invoices, as per 501.07, complete traceability to the producing mill and proof of domestic origin, as per ORC 153.01 1, shall be retained by the fabricator, per project, for a period of three (3) years to support the letter of certification.

Final acceptance of all fabricated materials under this proposal will be based on the Engineer's approval that the fabricated items both conform to the shop drawings and can be properly incorporated into the work.

After completion of the fabrication and approval process the Contractor is responsible for submittal of microfilmed 'as built' shop drawings as per 501.05.



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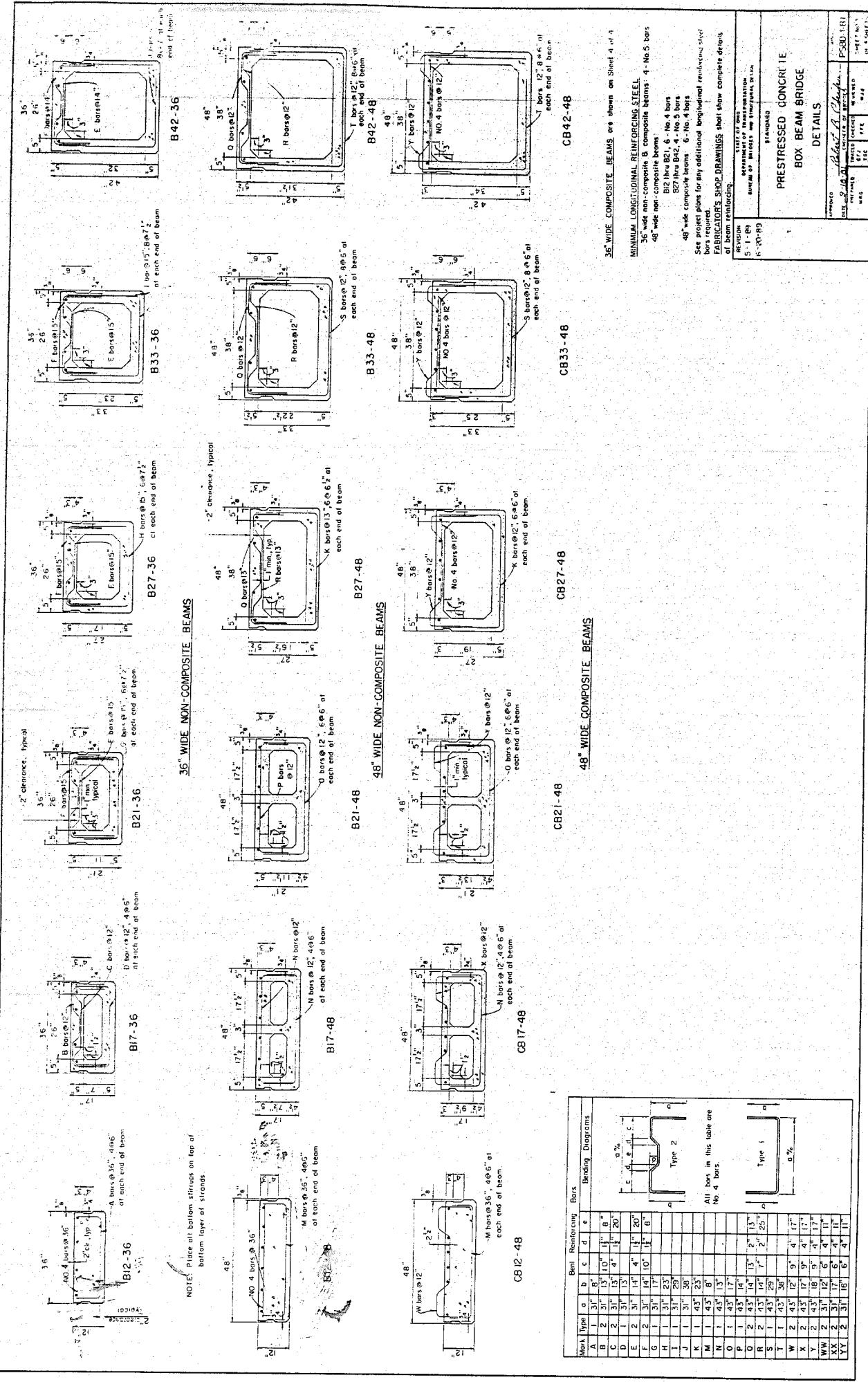
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Span	Type	Bottom Reinforcing Bars					Bending Diagrams
		a	b	c	d	e	
6	A	1	3"	8"	1"	6"	
8	B	2	3"	13"	10"	1"	
10	C	2	3"	13"	4"	1"	
12	D	1	3"	13"	20"	1"	
14	E	2	3"	14"	4"	20"	
16	F	2	3"	14"	14"	8"	
18	G	1	3"	17"	17"	1"	
20	H	1	3"	23"	17"	1"	
22	I	1	3"	29"	17"	1"	
24	J	1	3"	35"	17"	1"	
26	K	1	43"	23"	17"	1"	
28	L	1	43"	30"	17"	1"	
30	M	1	43"	8"	17"	1"	
32	N	1	43"	13"	17"	1"	
34	O	1	43"	17"	17"	1"	
36	P	2	3"	43"	14"	2"	
38	Q	2	3"	43"	14"	2"	
40	R	2	3"	43"	17"	2"	
42	S	1	43"	23"	17"	1"	
44	T	1	43"	30"	17"	1"	
46	U	2	3"	43"	12"	9"	
48	V	2	3"	43"	18"	4"	
50	W	2	3"	43"	12"	6"	
52	XX	2	3"	43"	17"	6"	
54	YY	2	3"	43"	16"	4"	

All bars in this table are No. 4 bars.

MINIMUM LONGITUDINAL REINFORCING STEEL
 36 wide non-composite beams: 4 - No. 5 bars
 48 wide non-composite beams:
 B12 thru B21, 6 - No. 4 bars
 B22 thru B42, 4 - No. 5 bars
 48 wide composite beams: 6 - No. 4 bars
 See projections for any additional longitudinal reinforcement steel bars required.

FABRICATOR'S SHOP DRAWINGS shall show complete details of beam reinforcing.

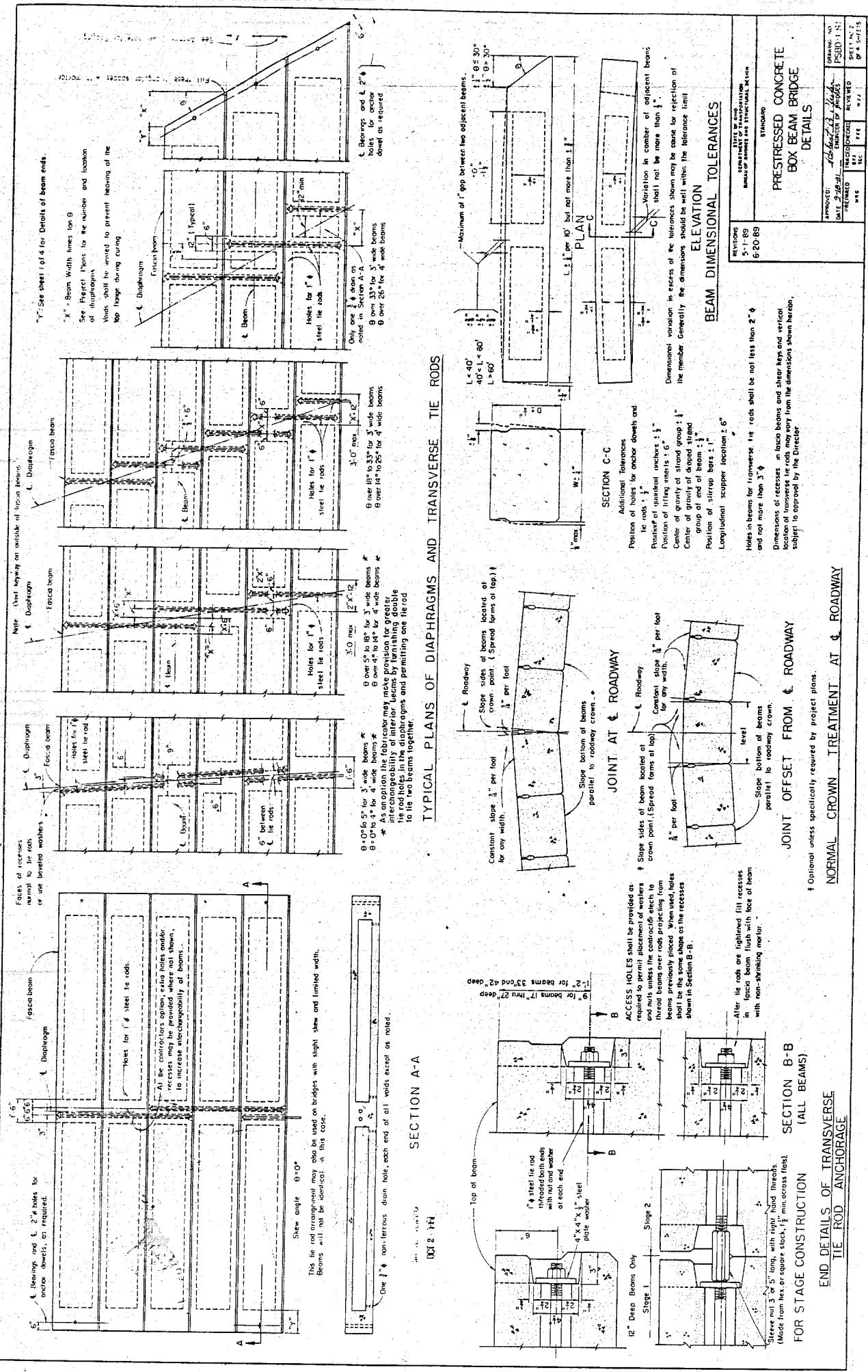
SECTION **5-1-63**
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS AND BRIDGES, DIVISION OF
5-20-63

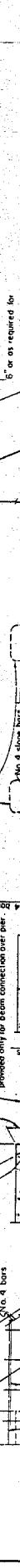
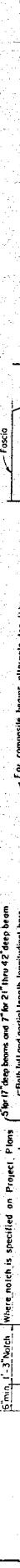
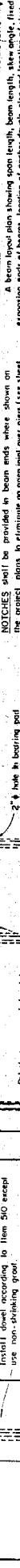
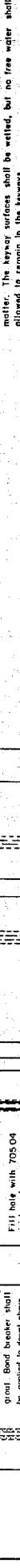
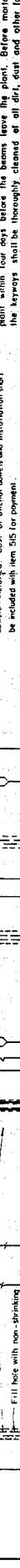
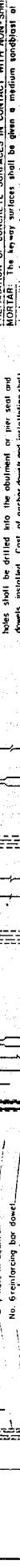
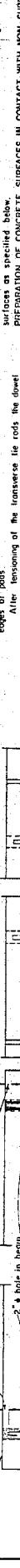
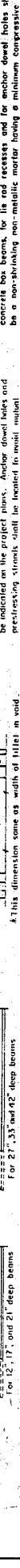
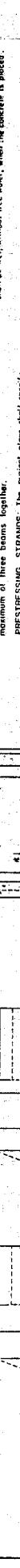
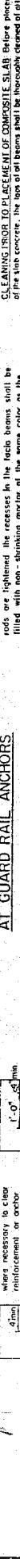
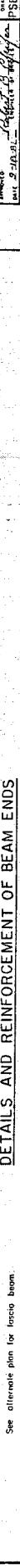
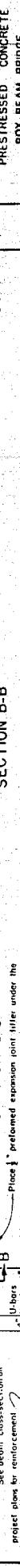
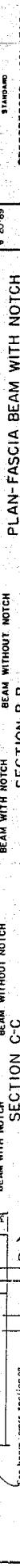
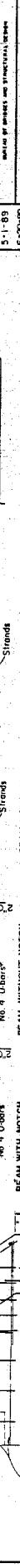
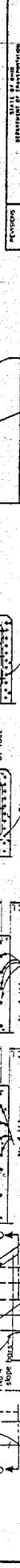
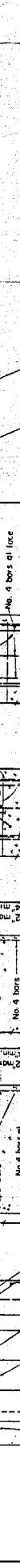
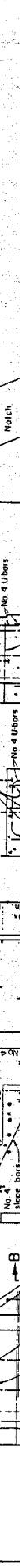
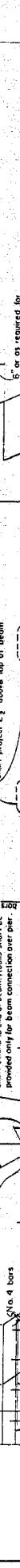
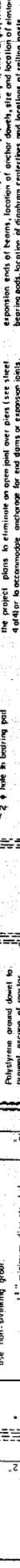
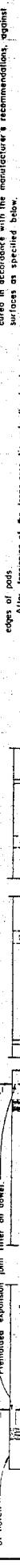
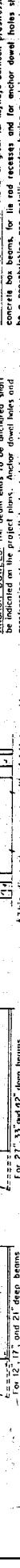
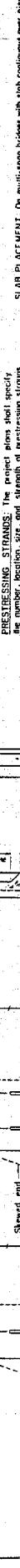
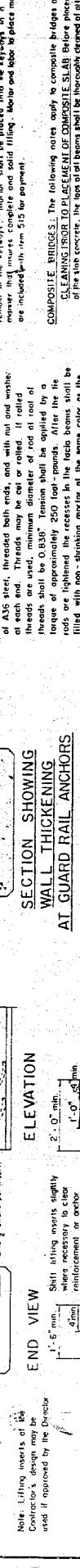
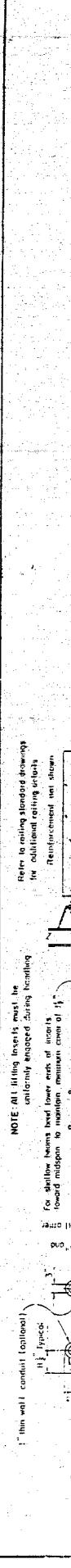
STANDARD

PRESTRESSED CONCRETE
BOX BEAM BRIDGE

DETAILS

Approved *R. C. Shultz* **Permit No.** *PSB 1-11*
Entered *2-10-64* **Changes or modifications** *None*
Reviewed *None* **Initial** *None*
Supervised *None* **Final** *None*
Checked *None* **Accepted** *None*
Reviewed *None* **Accepted** *None*





REQUISITION HEADER SCREEN
UPDATE MODE

AARQ0002

REQ NO: 083466

DATE: 05/13/96

DOC TYPE: ORDE TYPE CODE: 02 DIV/DIST: 09 Y CMNTS ADDED
 Y BID PROJ NO:
 CON/BID: GDC: CNTL BD: RLSE/PRMT:
 N JOURNAL ENTRY VOL NO: PAGE NO: TOTAL AMT: 19,000.00
 N CONFIRMING CONTACT PRSN: TROY HUFF, ABE

VENDOR NO: ADDRESS CD: MBE:
 NAME: DELIVERY REQ:
 ADDRESS 1: PRE APPRVL NO:
 2: COUNTY:
 CITY, ST: ZIP: TERMS:

----- BILL TO ----- SHIP TO -----
 : ODOT, DISTRICT 9 : : ADA-348-0714, LOCATED 7.14 :
 : C/O NEIL COUNTRYMAN, AUDITOR : : MILES EAST OF S.R. 125. :
 : P.O. BOX 467 : : :
 : CHILLICOTHE, OHIO 45601 : : :

PF14-ACCNT PF15-PURCH PF16-DESC PF17-CMMNTS PF18-APPVRS PA1/PA2-EXIT

REQUISITION ACCOUNTING INFORMATION

AARQ0003

REQ NO: 083466

PAGE: 1

LN	FNC	FND	YEAR	ARC	SAC	SPND	RC	RCAT	ACT	STATE	OBJECT	JOB NO	AMOUNT
1	002	96	1773	4312	0009	0061			262				19,000.00
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

FUNCTIONS: A-ADD LINE D-DEL LINE PF7-P.BACK PF8-P.FORWARD
 PF13-HEADER PF15-PURCH PF16-DESC PF17-CMNNTS PF18-APPVRS PA1/PA2-EXIT

REQ NO: 083466 REQUISITION PURCHASING INFORMATION AARQ0004

FUNCTION:

-COMMODITY CODE- SPEC

LN	QUANTITY	UM	CLS	IM	GP	DETL	NUMBER	UNIT PRICE	LINE AMOUNT
01	1	EA	210	16	00	0000		19,000.0000	19,000.00

CONCRETE AND METAL CULVERTS, PILINGS, SEPTIC TANKS, ACCESSORIES AND SUPPLIES

CONCRETE BEAMS, PRESTRESSED, B17-48 AND B17-36, 21'-9" O/O SPAN BY 26'-0" O/O ROADWAY WIDTH, 35 DEGREE R.F. SKEW, AND RELATED HARDWARE AS PER THE ATTACHED SPECIFICATIONS AND DRAWINGS. VENDOR WILL BE REQUIRED TO FABRICATE, DELIVER, AND SET BEAMS WITH CRANE ON ODOT PREPARED ABUTMENTS.

BEAMS SHALL BE FABRICATED, TESTED AND READY FOR DELIVERY BY SEPTEMBER 15, 1996.

FUNCTIONS: A-ADD D-DEL PF7-BACK PF8-FORWRD PF9-BRWS LNS PF10-BRWS CC
PF13-HEADER PF14-ACCNT PF16-DESC PF17-CMMNTS PF18-APPVRS PA1/PA2-EXIT

REQ NO: 083466 REQUISITION DESCRIPTION AARQ0005
DESCRIPTION WILL BE PRINTED ON P.O. PAGE: 1

FUNCTION:

TESTING REQUIREMENTS:

TE-24 FOR CONCRETE BEAMS AND STAINLESS STEEEL DRIP STRIP.
ELASTOMERIC BEARING PADS AS PER "CMS" 711.23.
TYPE 2 POST AS PROPOSAL NOTE 540.

FUNCTIONS: A-ADD DESC PF7-P.BACK PF8-P.FORWARD
PF13-HEADER PF14-ACCNT PF15-PURCH PF17-CMMNTS PF18-APPRVS PA1/PA2-EXIT

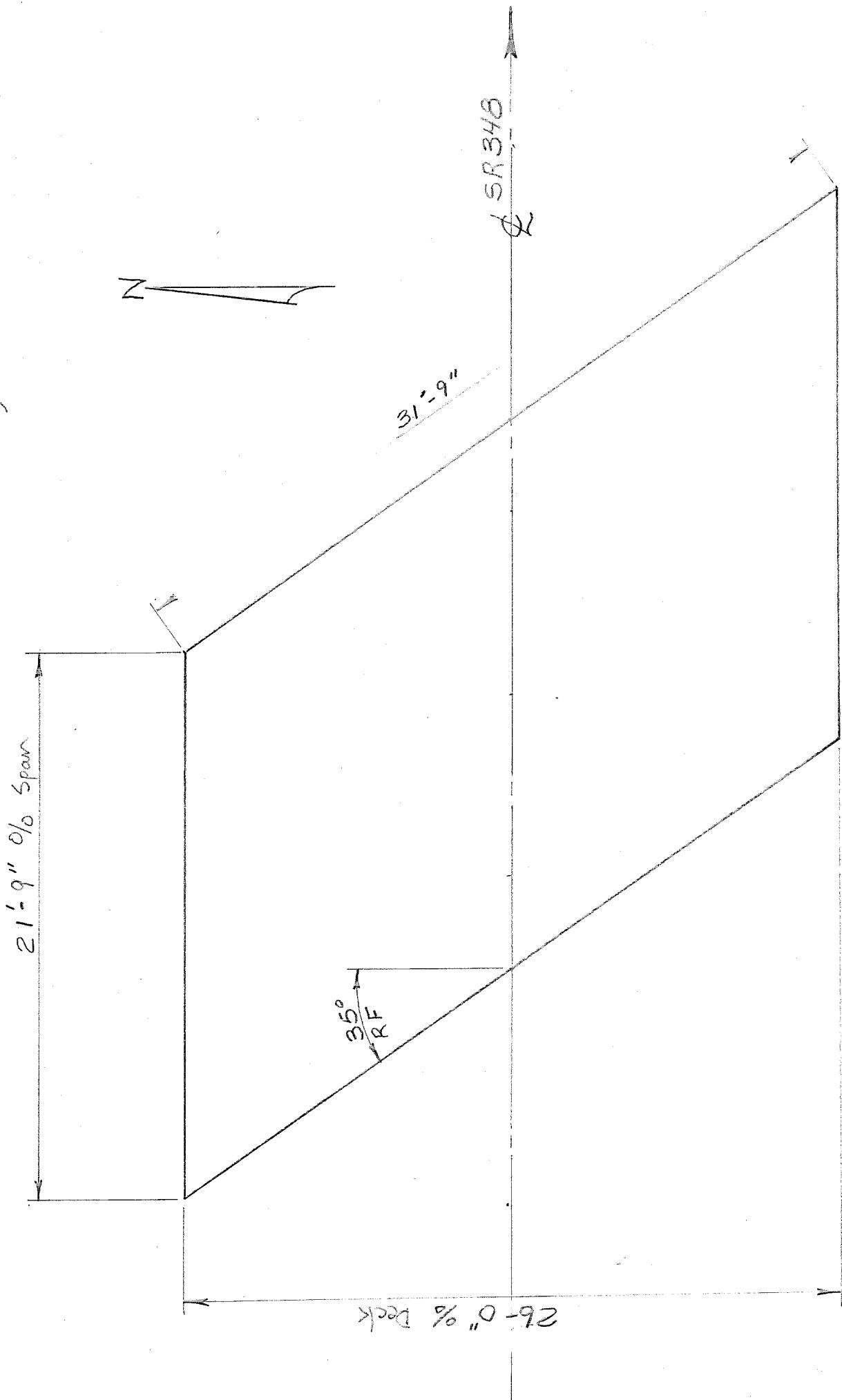
REQ NO: 083466 REQUISITION COMMENTS AARQ0006
PAGE: 1

FUNCTION:

ADDED BY: D09TH1 05/13/96 - HUFF, TROY
COPY OF HEADER SCREEN, SPECIFICATION, DRAWINGS, AND SUGGESTED BIDDER LIST
LIST SENT TO BRUCE RAYBOURNE.

FUNCTIONS: A-ADD COMMENT PF7-P.BACK PF8-P.FRWD
PF13-HEADER PF14-ACCNT PF15-PURCH PF16-DESC PF18-APPVRS PA1/PA2-EXIT

Bridge ADA-348-0714



3/16 Scale, 3/15/96

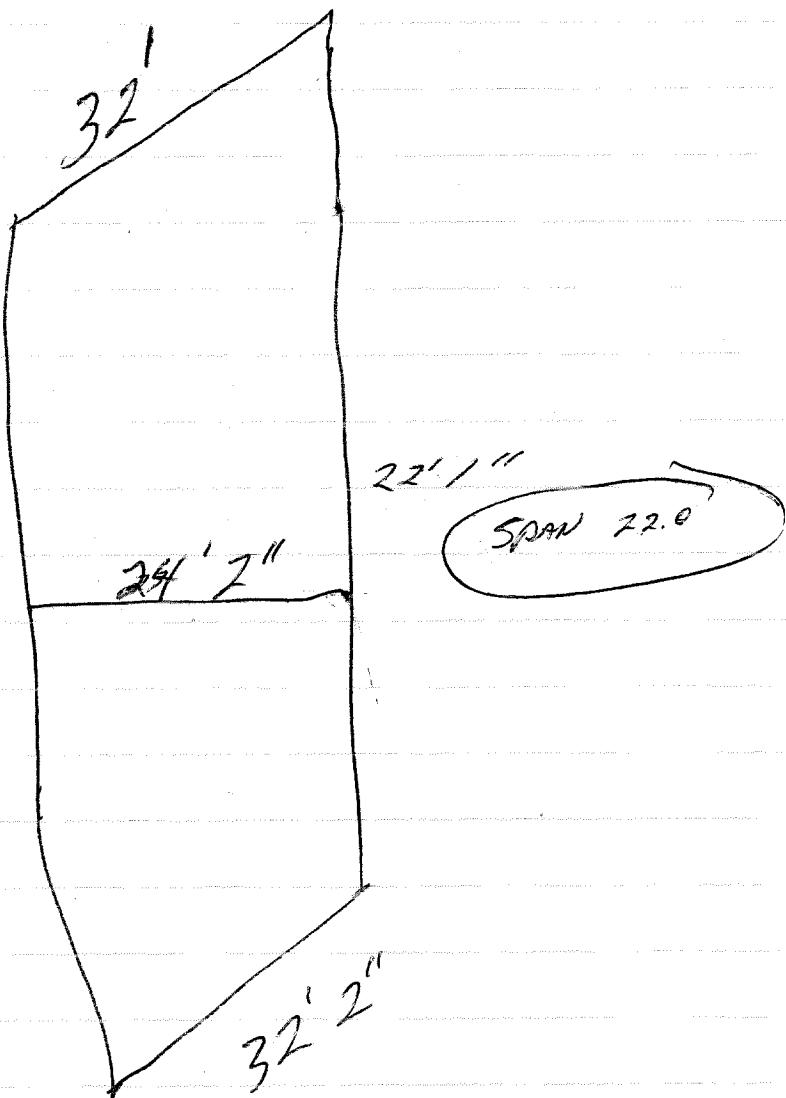
ADA 348-8714

Existing Dimensions.

22' 1" West side

22' 1" East side

234° 10'



234° 10'

180°

54

36

22' 1" width present