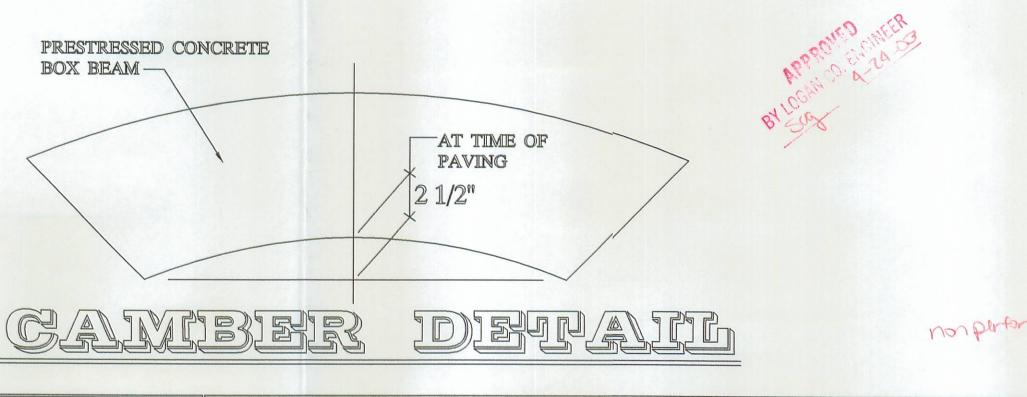




- --- STRAND AREA IS .153 IN. SQ.
- --- INITIAL LOAD IS 30,982 # / STRAND.
- --- STRAND IS LOW LAX.
- --- REBAR IS ALL GRADE 60.
- --- STIRRUPS UNDER STRAND.

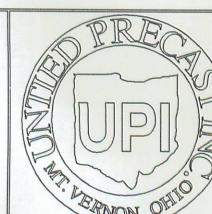


## BILL OF WALLSTAILS

2	8': TIE ROD SLEEVES TYPE - B - ANCHORS	2°-0°° -0°°	10 CY. 40 GAL.	41,653 #  (D.C.I.) 4 - GAL. / CY.  1/2" Ø STRAND 270 KSI L.L.  GRADE - 60  11 1/2" X 17 1/2"  3/4" Ø NON FERROUS  1" Ø STEEL ROD  1" Ø STEEL ROD	60 CY. 240 GAL. 10,560 L.F. 6,168 # 588 L.F. 72 EA. 8 EA. 4 EA.
3 (3 4 5 5 1 5 6 7 8 7 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CALCIUM NITRITE STRAND RE-STEEL VOID VOID DRAINS TIE RODS 12 8'- TIE ROD SLEEVES TYPE-B-ANCHORS			1/2" Ø STRAND 270 KSI L.L. GRADE - 60 11 1/2" X 17 1/2" 3/4" Ø NON FERROUS 1" Ø STEEL ROD	240 GAL. 10,560 L.F. 6,168 # 588 L.F. 72 EA. 8 EA.
4 5 6 7 8 7 8 7 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STRAND RE-STEEL VOID VOID DRAINS TIE RODS 12 8'- TIE ROD SLEEVES TYPE-B-ANCHORS		40 GAL.	1/2" Ø STRAND 270 KSI L.L. GRADE - 60 11 1/2" X 17 1/2" 3/4" Ø NON FERROUS 1" Ø STEEL ROD	240 GAL. 10,560 L.F. 6,168 # 588 L.F. 72 EA. 8 EA.
5   1   6   7   8   7   8   7   9   1   1   1   1   1   1   1   1   1	RE-STEEL VOID VOID DRAINS TIE RODS 12 8'- TIE ROD SLEEVES TYPE-B-ANCHORS			1/2" Ø STRAND 270 KSI L.L. GRADE - 60 11 1/2" X 17 1/2" 3/4" Ø NON FERROUS 1" Ø STEEL ROD	10,560 L.F. 6,168 # 588 L.F. 72 EA. 8 EA.
6 7 8 7 8 7 9 10 11 11 1	VOID VOID DRAINS TIE RODS 12 8'- TIE ROD SLEEVES TYPE - B - ANCHORS			GRADE - 60 11 1/2" X 17 1/2" 3/4" Ø NON FERROUS 1" Ø STEEL ROD	6,168 # 588 L.F. 72 EA. 8 EA.
7 8 9 10 11	VOID DRAINS THE RODS 12 8'- THE ROD SLEEVES TYPE - B - ANCHORS			3/4" Ø non ferrous 1" Ø steel rod	588 L.F. 72 EA. 8 EA.
8 7 9 7 10 7 11 7	TIE RODS 12 8': TIE ROD SLEEVES TYPE - B - ANCHORS			3/4" Ø non ferrous 1" Ø steel rod	72 EA. 8 EA.
9 7 10 7 11 7	8': TIE ROD SLEEVES TYPE - B - ANCHORS				
10 T	TIE ROD SLBEVES TYPE - B - ANCHORS	-0 <sup>n</sup>		1" Ø STEEL ROD	4 EA
10 T	TYPE-B-ANCHORS				# 47PPRY 77'0
11 7					128 L.F.
					36 EA.
10 1	TYPE - C - ANCHORS				18 EA.
	DOWELS & SLEEVES				12 EA.
	INTERTUF - 132				0.5 GAL.
	SILANE				2.6 GAL.
	TUTE				288 L.F.
	BEARING PADS				24 EA.
	GUARDRAIL POST				18 EA.
	GUARDRAIL POST			(OFF THE DECK)	4 EA.
	GUARDRAIL ELEMENT				150 L.F.
	TUBULAR BACK UP				150 L.F.
	P.E.J.F.				12 S.F.
- 22 N	NON SHRINK GROUT ADI	DITIVE		(ESTIMATED 11/2 CY. GROUT)	13.5 LBS.

SCAILIE:

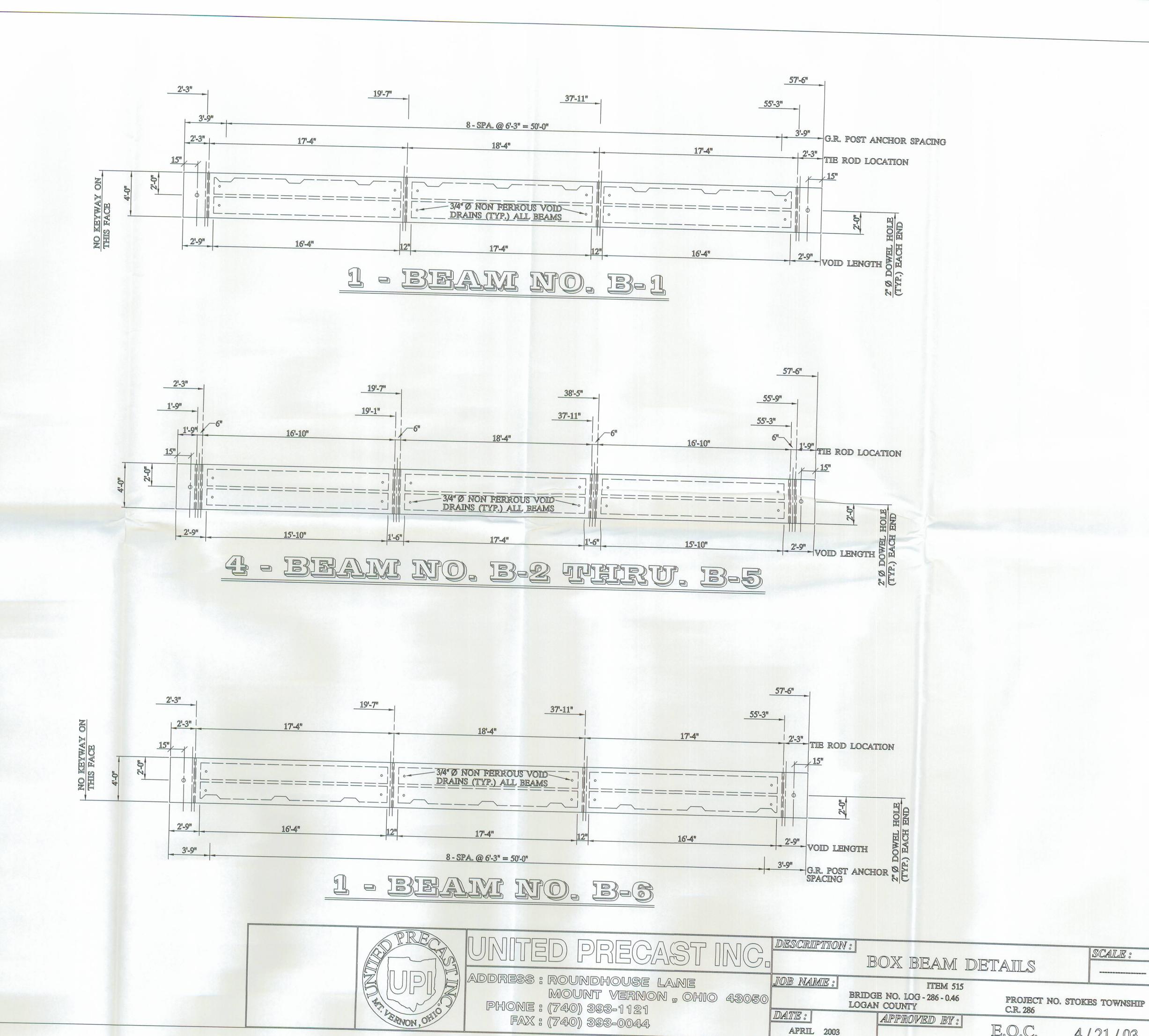
DRAWN BY:



MOUNT VERNON, OHIO 43050 PHONE: (740) 393-1121 FAX: (740) 393-0044

DESCRIPTION:				
	BOX	BEAM	DETAILS	
JOB NAMIE:	ITEM 515			

		BOX BEAM DETAILS				
	JOB NAMIE:	TTEM 515			REVISED:	
)		BRIDGE NO. LOG - 286 - 0.46 LOGAN COUNTY	PROJECT NO. STO. C.R. 286	KES TOWNSHIP		
	DATE:	AIPIPIROVIEID IBY:			DRAWING NO.	
APRI	APRIL 2003		D.O.C. 4/	21/03	1 OF 4	



SCAULIE:

4/21/03

DATTE:

APRIL 2003

APPROVED BY:

E.O.C.

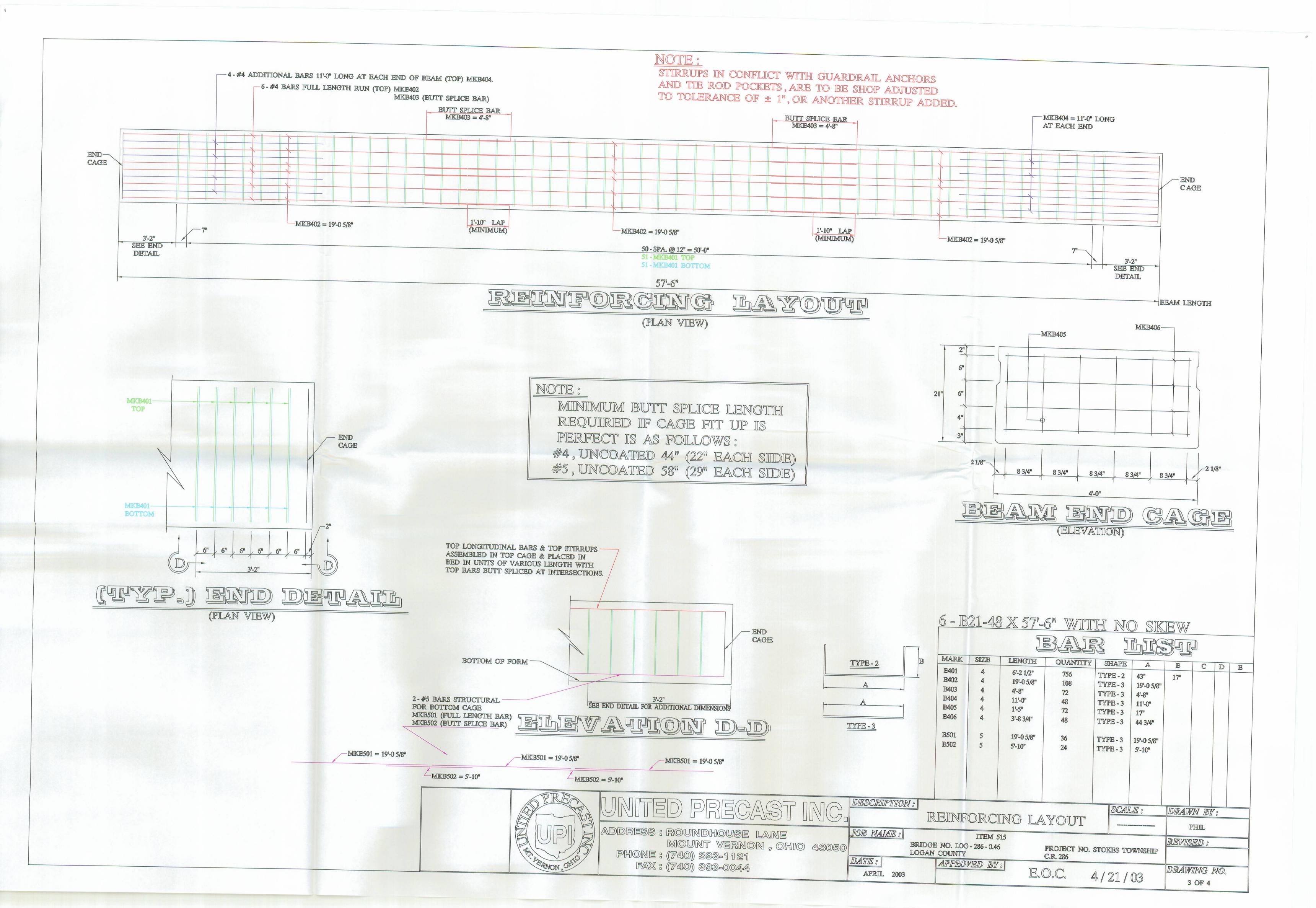
DRAWN BY:

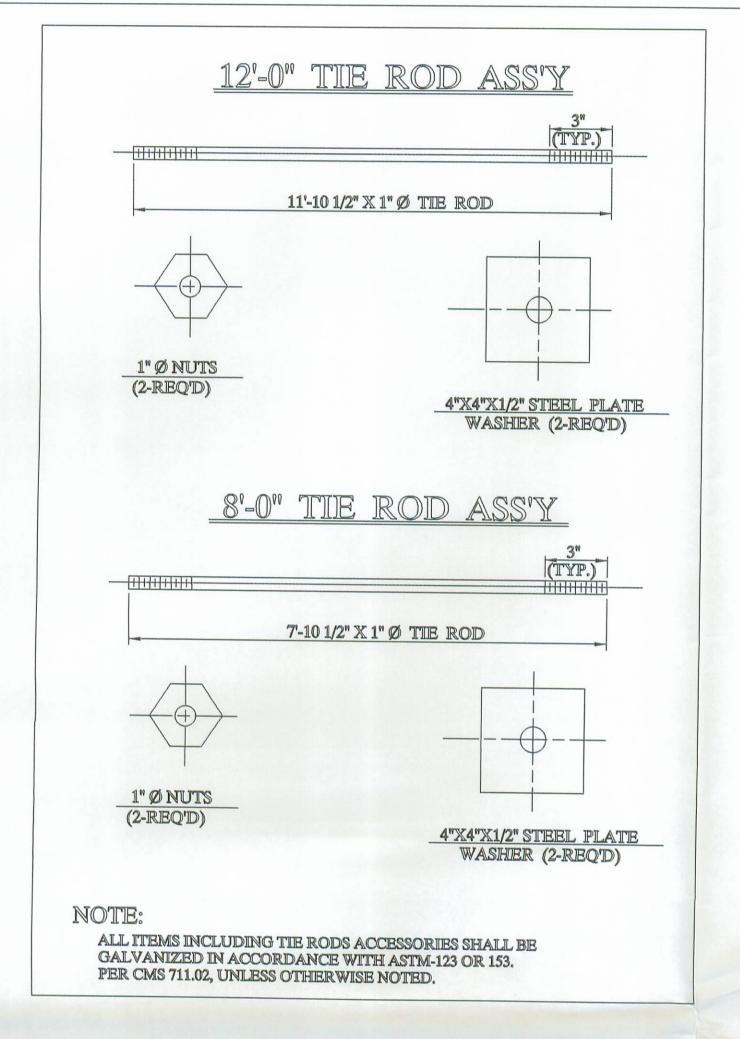
IRIEVIISIEID:

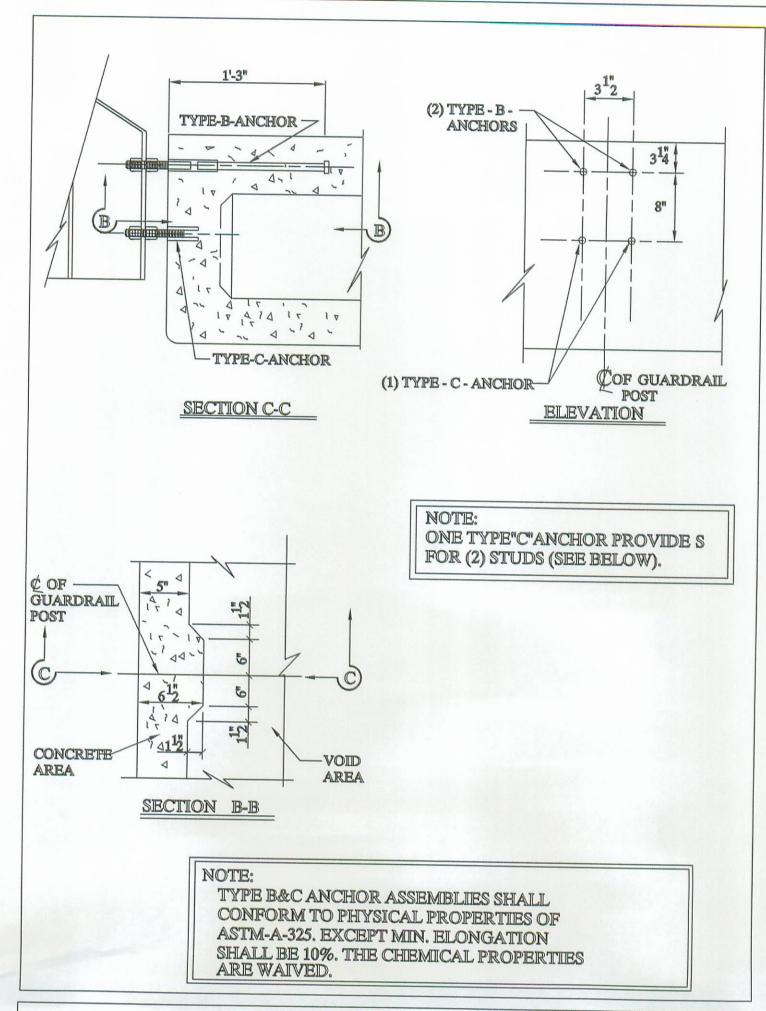
PHOOL

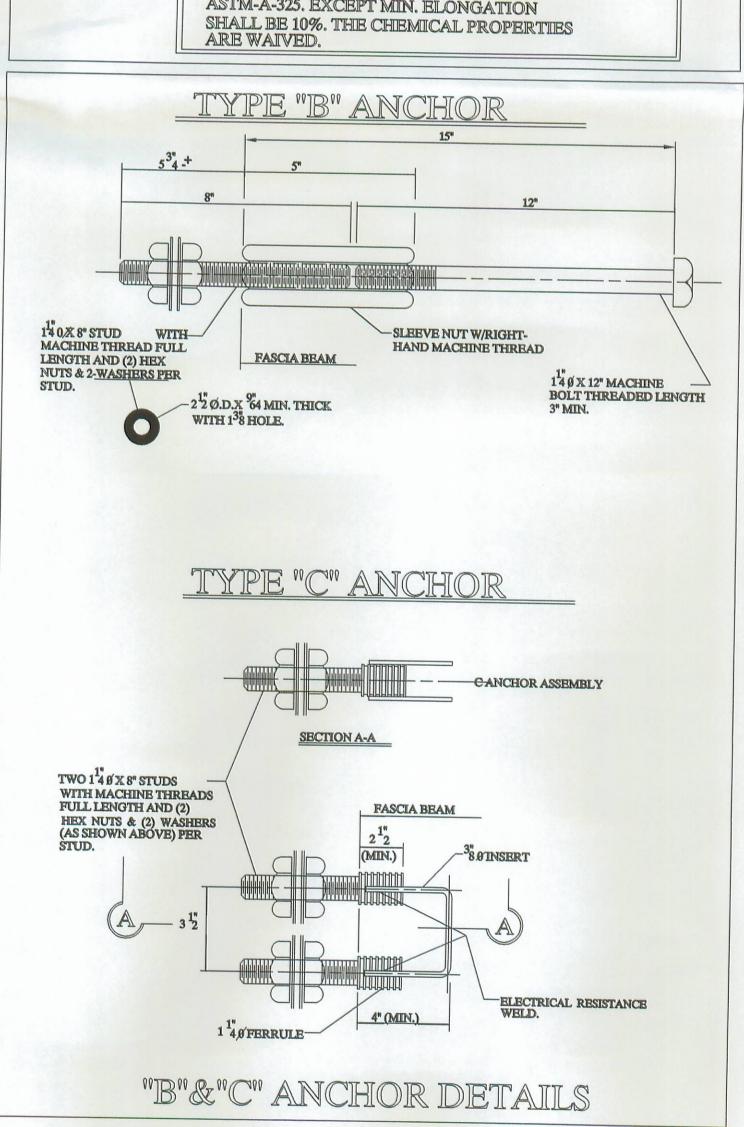
DRAWING NO.

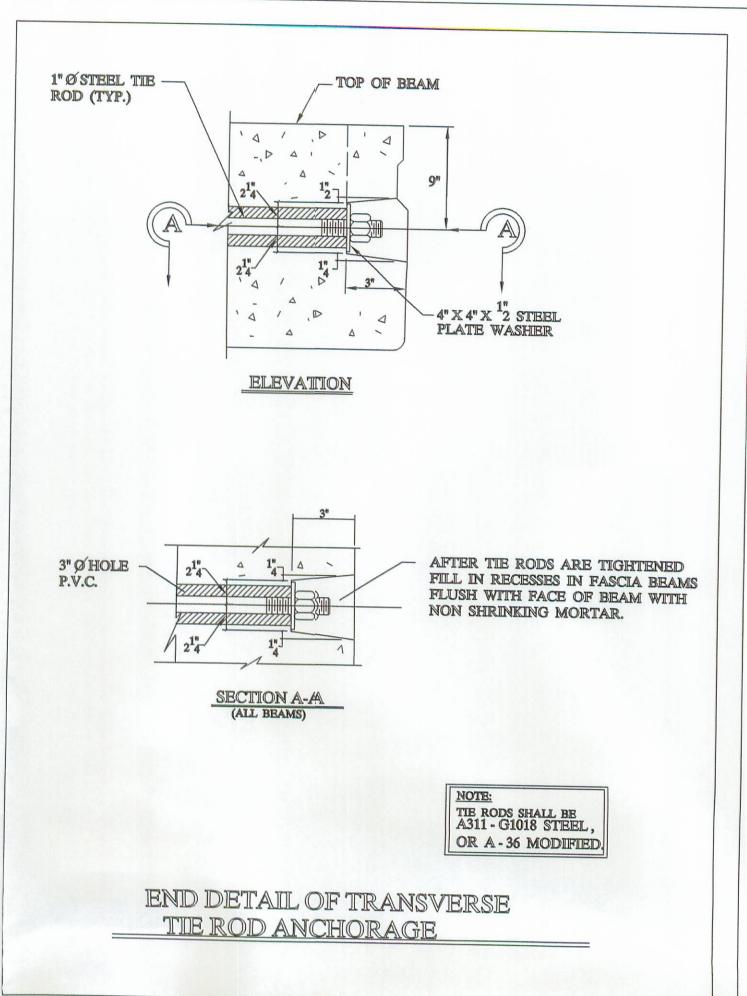
2 OF 4

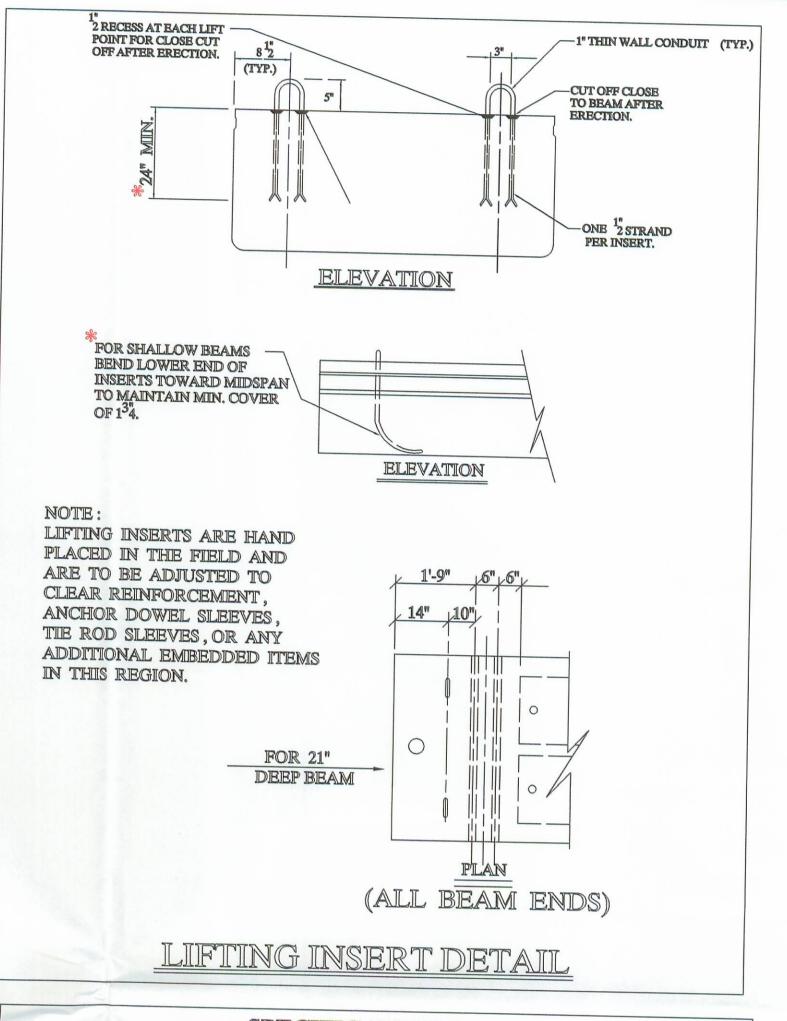














- 1) GALVANIZE ALL HARDWARE PIER CMS. 711.02.
- 2) PROVIDE A BROOM FINISH ON TOP SURFACE OF BEAM SUITABLE FOR WATERPROOFING.
- 3) ADD D.C.I. TO CONCRETE (4-GAL./CUBIC YARD).
- 4) WATERPROOF BEAM ENDS.
- 5) DETENSION STRAND SYMETRICALLY ABOUT CENTERLINE.

## SPECIFICATIONS

DESIGN LOADING: HS20 - 44 AND ALTERNATE MILITARY LOADING. FUTURE WEARING SURFACE (FWS) OF 60 PSF

CONCRETE:

COMPRESSIVE STRENGTH, fc = 5500 PSI @ 28 DAYS (SHIPPING). fc = 4000 PSI @ RELEASE.

PRESTRESSING

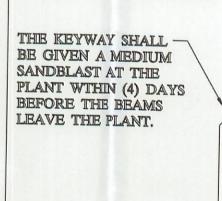
ASTM A - 416 GRADE 270,  $^{17}_{2}$  DIAMETER, SEVEN WIRE, UNCOATED LOW RELAXATION STRAND, As = .153 in. fs = 270 KSI. INITIAL STRESS: 0.75 fs' = 202.5 KSI.

REINFORCING GRADE-60: ASTM A-615, ASTM A-616, ASTM A-617. UNIT STRESS 24,000 PSI. STEEL

NOTE:

STRAND

PRESTRESSED CONCRETE BEAMS AND APPURTENACES CONFORM TO O.D.O.T. STANDARD BRIDGE DRAWINGS PSBD - 1 - 93 SHEETS ONE, TWO, THREE, & FOUR.



—SILANE (TYP.) CONCRETE SEALER. APPLY IT ON SIDE OF FASCIA BEAMS WITH NO SHEARKEY.

SEAL TO 12"; 6" REQUIRED BY CONTRACT

APRIL 2003

(APPLICATION RATE) 200 SQ. Ft./GAL.

## TYPICAL FASCIA BEAM

BRIDGE NO. LOG - 286 - 0.46 LOGAN COUNTY ITEM 515 PROJECT NO. STOKES TOWNSHIP C.R. 286 UNITED PRECAST INC. ROUNDHOUSE LANE DRAWN BY: SCALE MT. VERNON, OHIO 43050 PHIIL PHONE:(740)393-1121, FAX:(740)392-9708 REVISED DATE DRAWING NO.

APPROVED BY:

4/21/03

4 OF 4