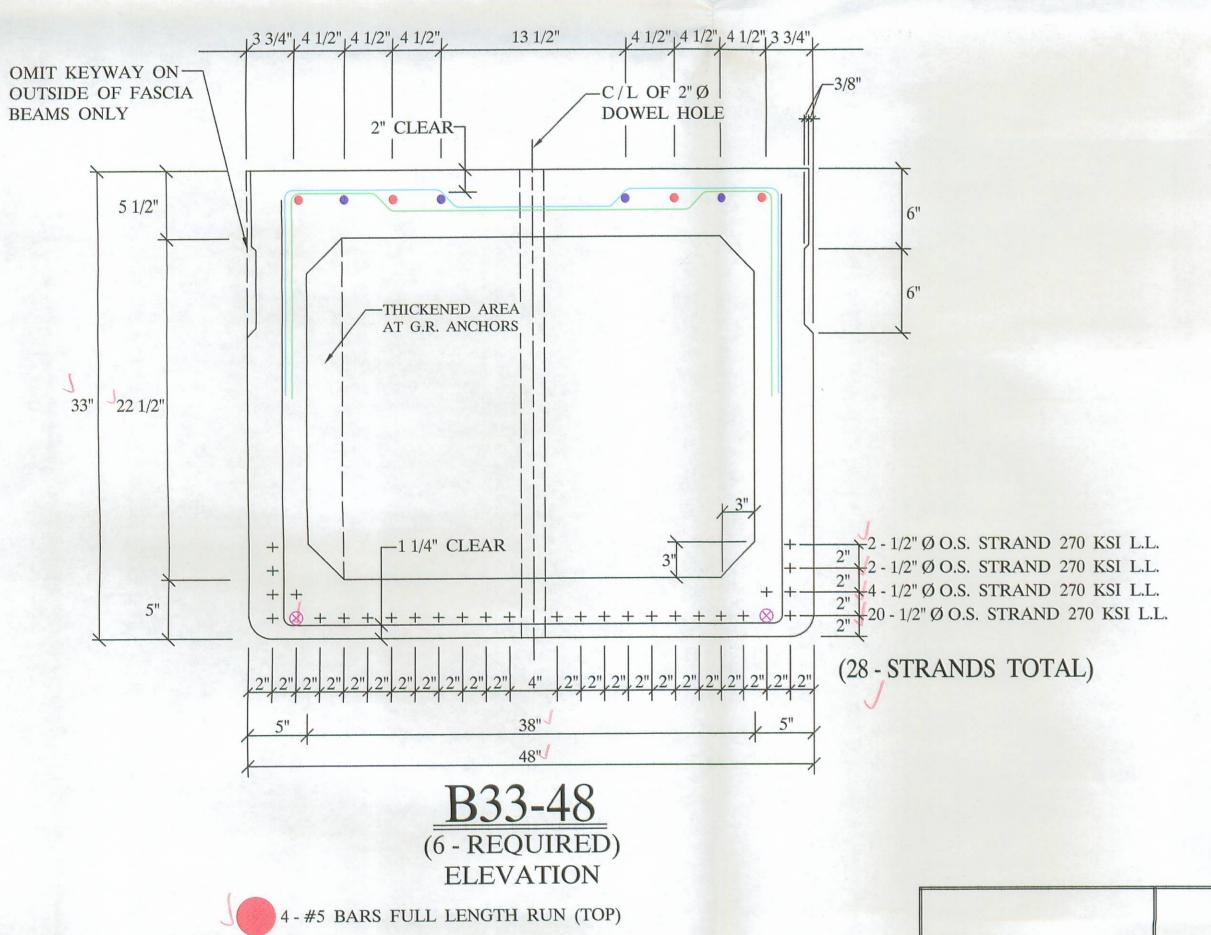


DECK PLAN

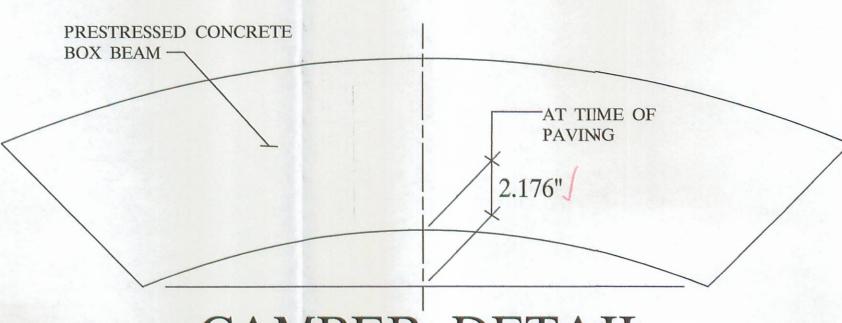


- #5 ADDITIONAL BARS 7'-3" LONG AT EACH END OF BEAM (TOP)

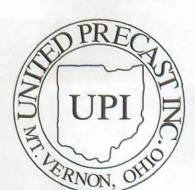
2 - #5 BARS FULL LENGTH RUN (BOTTOM)

QUALITY CONTROL NOTE:

- --- STRAND AREA IS .167 SQ. IN.
- --- STRAND IS LOW LAX.
- --- INITIAL LOAD IS 33,818 # / STRAND.
- --- REBAR IS ALL GRADE 60.
- --- STIRRUPS UNDER STRAND.
- f-- CONCRETE STRENGTHS: 7000 PSI AT 28 DAYS 5000 PSI AT RELEASE
- --- O.D.O.T. 2002 SPECIFICATIONS.



CAMBER DETAIL (ELEVATION)



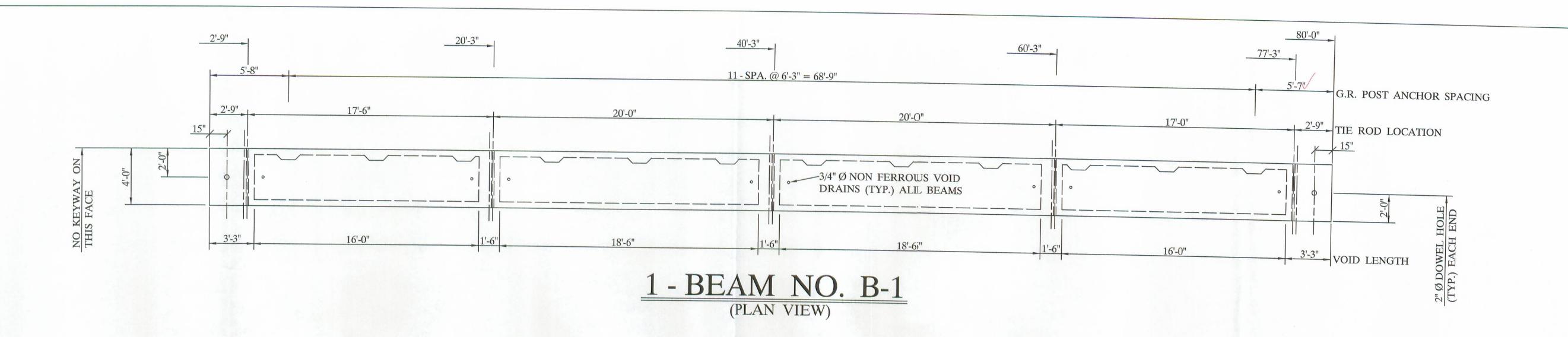
ROUNDHOUSH LANE MOUNT VERNON " OHIO 43050 PHONE: (740) 393-1121 FAX: (740) 392-9708

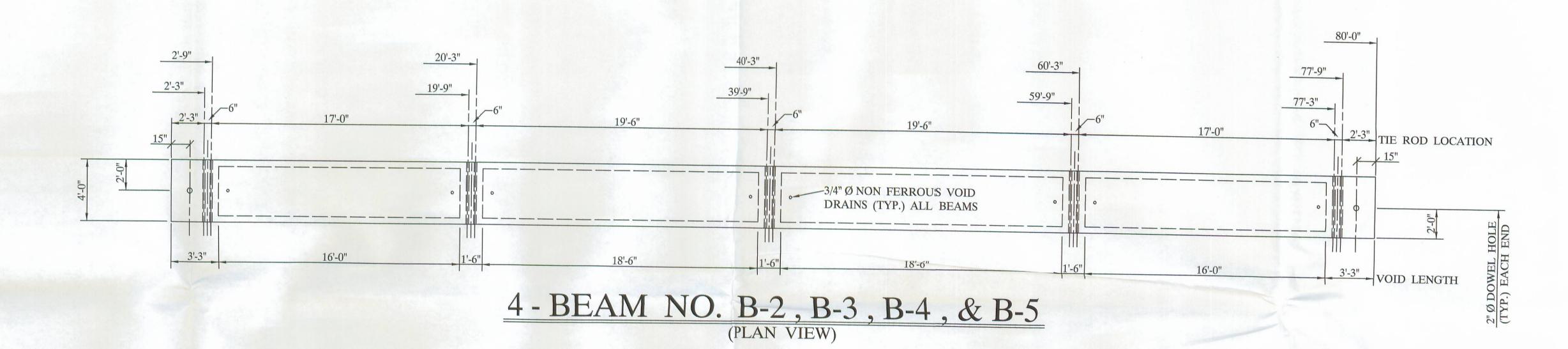
BILL OF MATERIALS

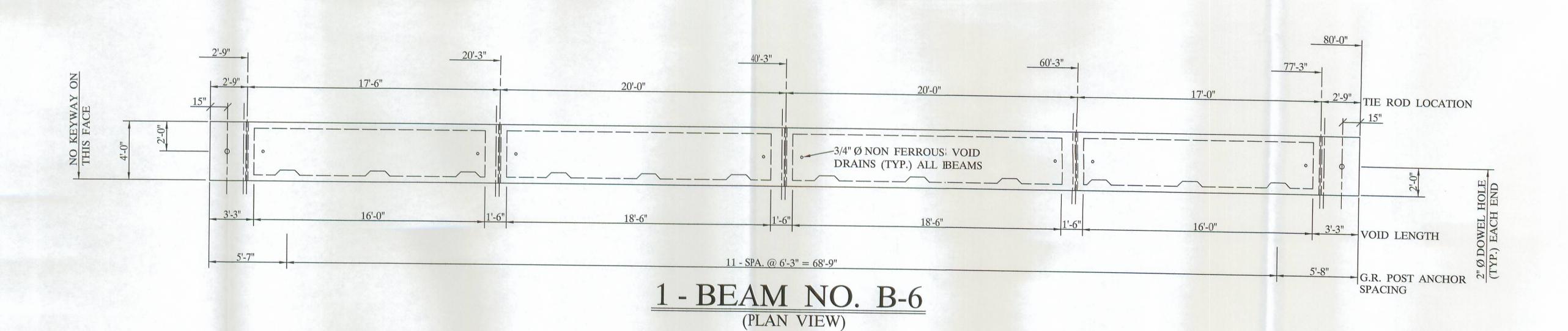
NO	ITEM	QTY/BEAM	NOTES	TOTAL
1	BEAM WEIGHT		74,262 #	
2	CONCRETE	17.7 CY.		106.2 CY.
3	CALCIUM NITRITE	70.8 GAL.	D.C.I. 4 - GAL. / CY.	424.8 GAL.
/4	STRAND		1/2" Ø STRAND 270 KSI L.L.	16,800 L.F.
15	RE-STEEL		GRADE - 60	11,141 #
6	VOID		22 1/2" X 38"	414 L.F.
/7	VOID DRAINS		3/4" Ø NON FERROUS	48 EA.
/8	TIE ROD 12'-0"		1" Ø STEEL ROD	10 EA.
	8'-0"		1" Ø STEEL ROD	5 EA.
9	TIE ROD SLEEVES			160 L.F.
10	TYPE - B - ANCHORS			48 EA.
11	TYPE - C - ANCHORS			24 EA.
12	DOWELS & SLEEVES			12 EA.
13	WASSER		MC - TAR	0.8 GAL.
14	SILANE			5.0 GAL.
15	JUTE			400 L.F.
16	BEARING PADS		1 1/4" X 5" X 12" , 3 - LAM.	24 L.F.
17	NON-SHRINK GROUT ADDITIVE		2 1/2 CY. GROUT, BY OTHERS	23 LBS.
18	GUARDRAIL POST		TYPE - 2	24 EA.
/19	GUARDRAIL POST (OFF DECK)		(SHIP LOOSE)	8 EA.
20	GUARDRAIL ELEMENT		162.	175 L.F.
21	TUBULAR BACK-UP		RECEIVED	175 L.F.
			111 2 5 2005 162.	5
			JUL 2 5 2005	
			LO. CO. ENGINEER	

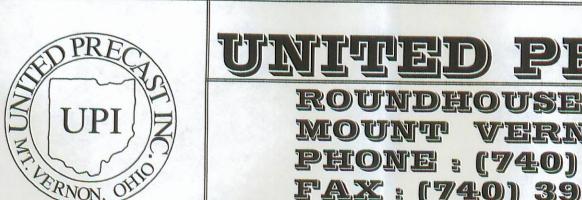
DESCRIPTION: DRAWN BY: SCALE: BOX BEAM DETAILS PHIL JOB NAME: **REVISED:** ITEM 515 BRIDGE NO. 35 - 4.24 PROJECT NO. T.R. 35 LOGAN COUNTY DATE: APPROVED BY: DRAWING NO. 7 / 15 / 05 E.O.C. JUNE 2005

1 OF 4





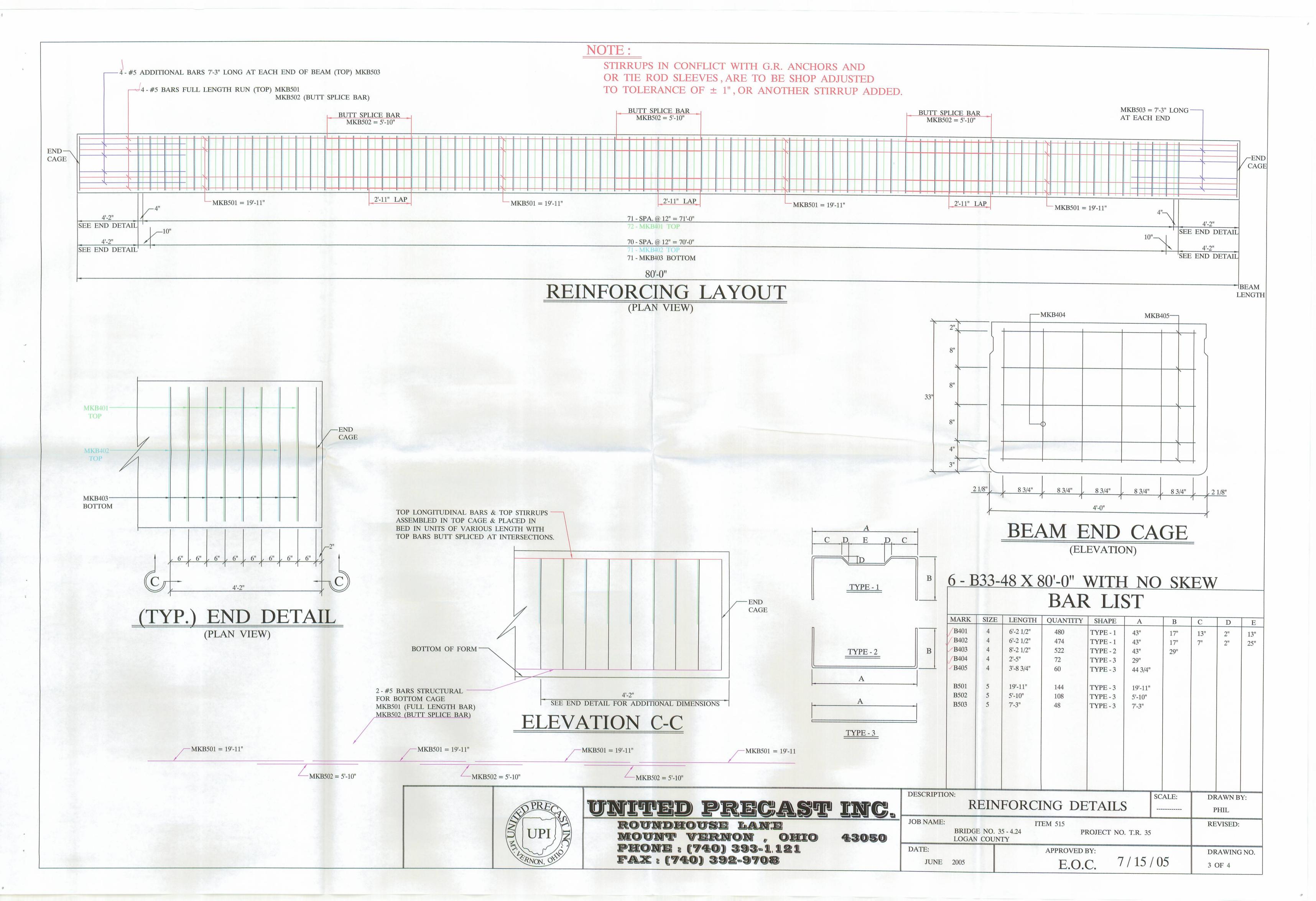


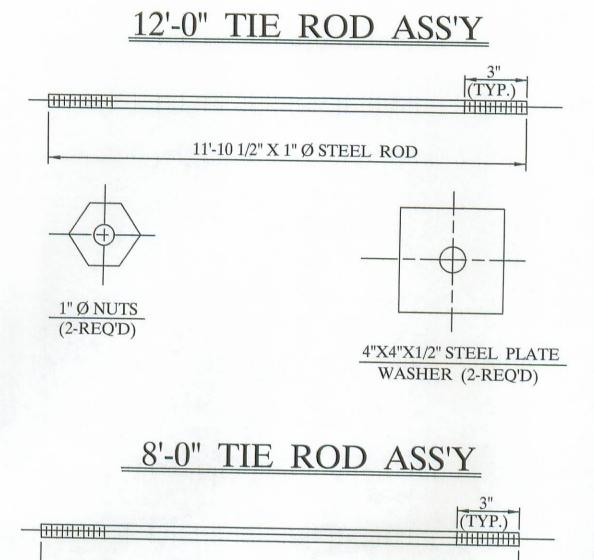


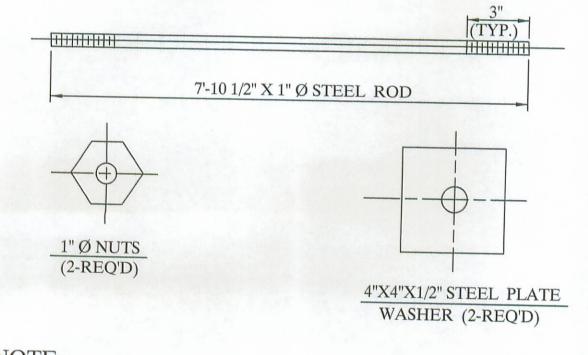
UNITED PRECAST INC.

ROUNDHOUSE LANE
MOUNT VERNON, OHIO 43050
PHONE: (740) 393-1121
FAX: (740) 392-9708

	X BEAM DETAILS	SCALE:	DRAWN BY: PHIL
JOB NAME: ITEM 515 BRIDGE NO. 35 - 4.24 LOGAN COUNTY PROJECT NO. T.R. 35		REVISED:	
DATE: JUNE 2005	APPROVED BY: E.O.C. 7/1	5 / 05	DRAWING NO

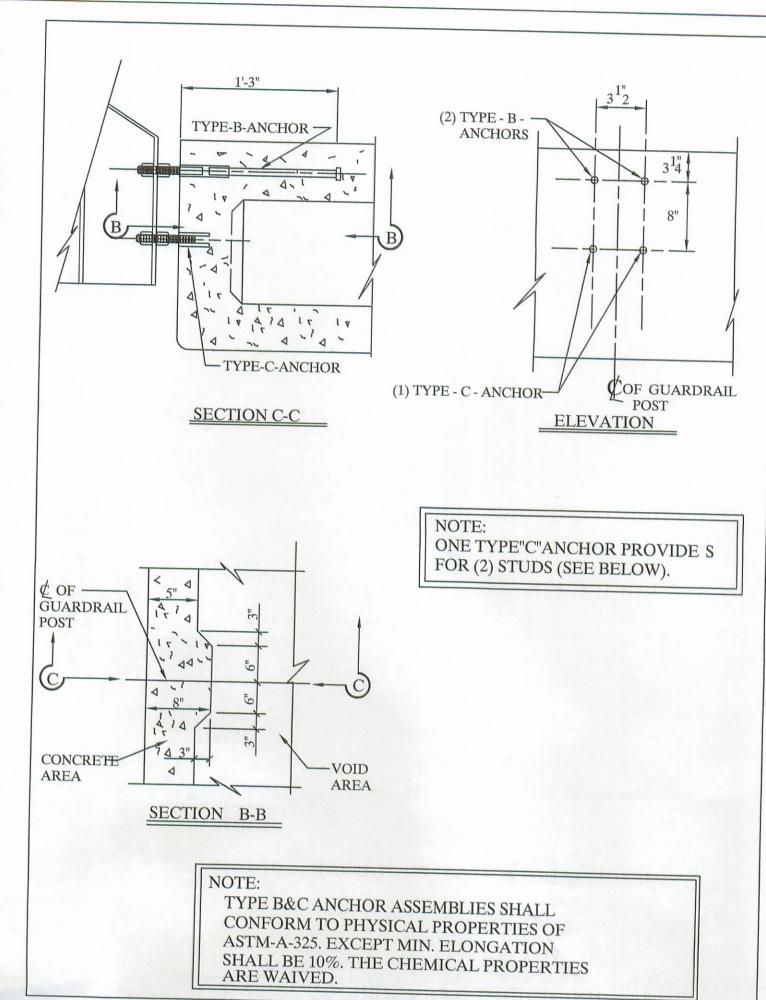


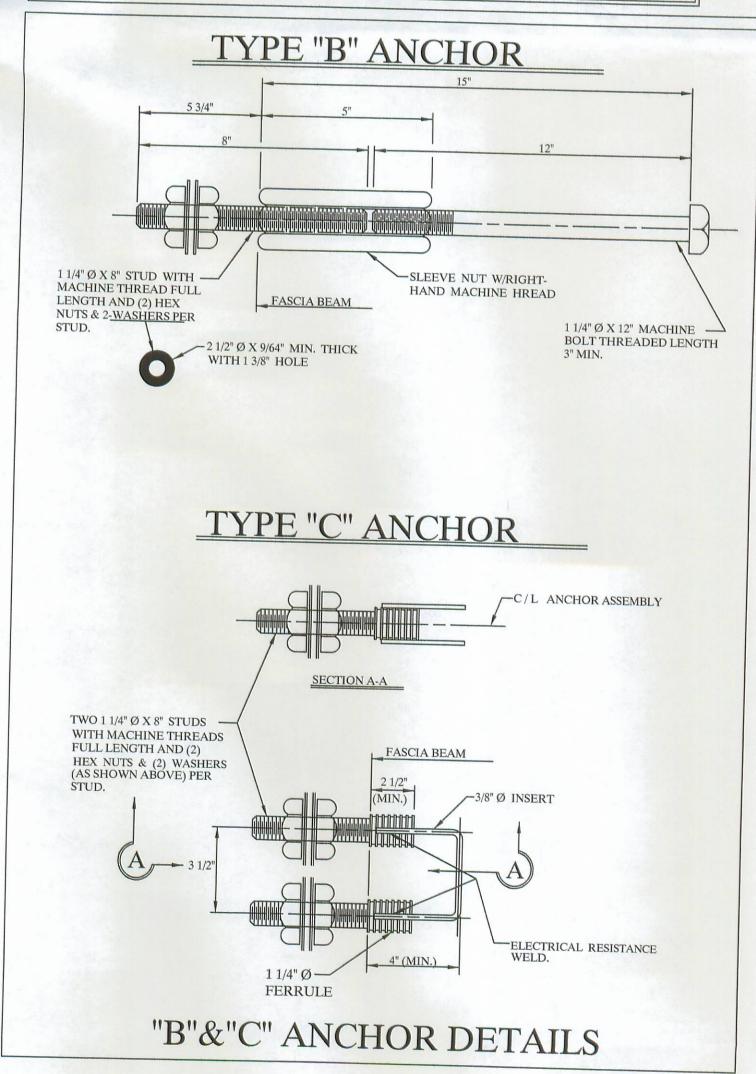


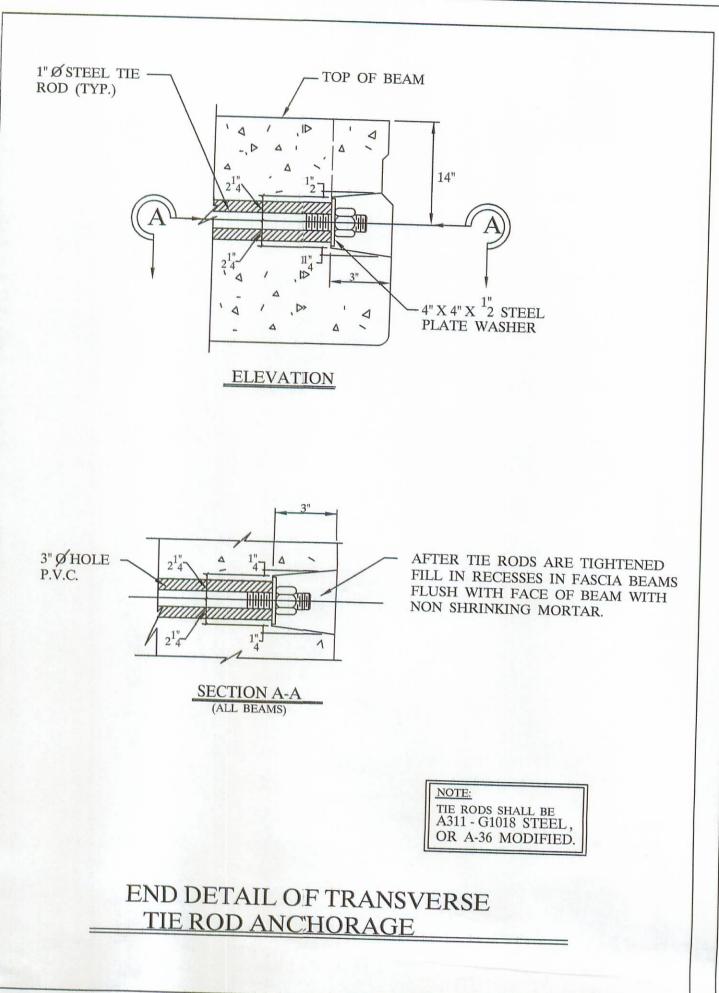


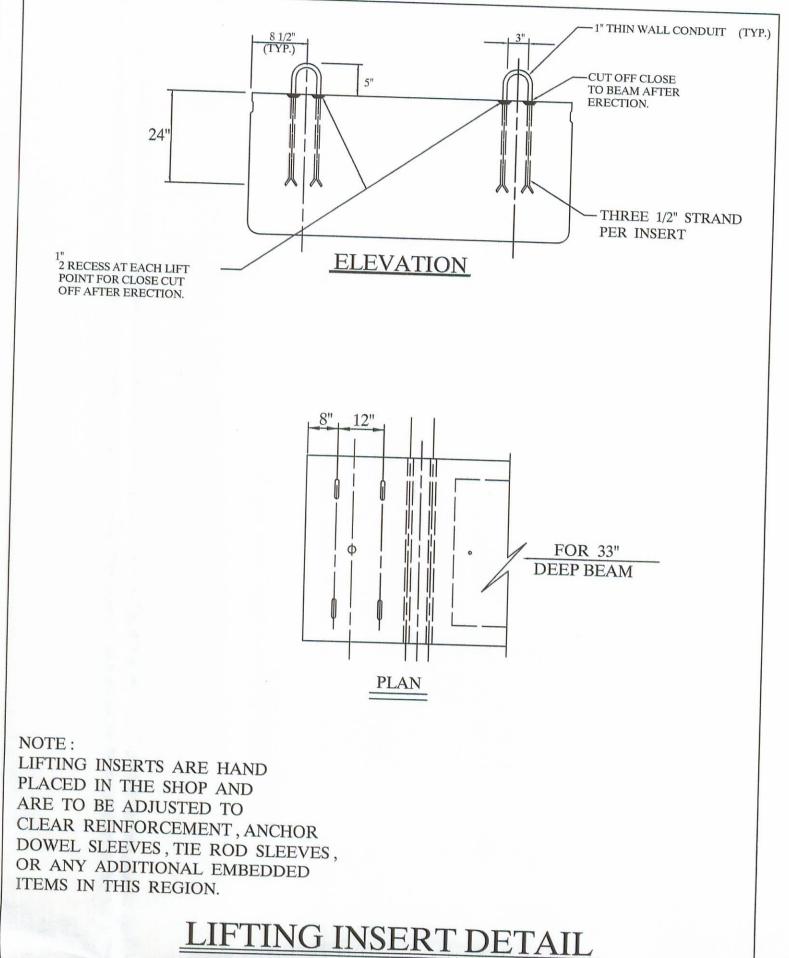
NOTE:

ALL ITEMS INCLUDING TIE RODS ACCESSORIES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-123 OR 153. PER CMS 711.02, UNLESS OTHERWISE NOTED.











1) GALVANIZE ALL HARDWARE PER CMS. 711.02.

2) PROVIDE A BROOM FINISH ON TOP SURFACE OF BEAM SUITABLE FOR WATERPROOFING.

3) ADD D.C.I. TO CONCRETE (4-GAIL./CUBIC YARD).

4) WATERPROOF BEAM ENDS.

5) DETENSION STRAND SYMETRICALLY ABOUT CENTERLINE.

SPECIFICATIONS

DESIGN LOADING: HS25 AND ALTERNATE MILITARY LOADING.

CONCRETE:

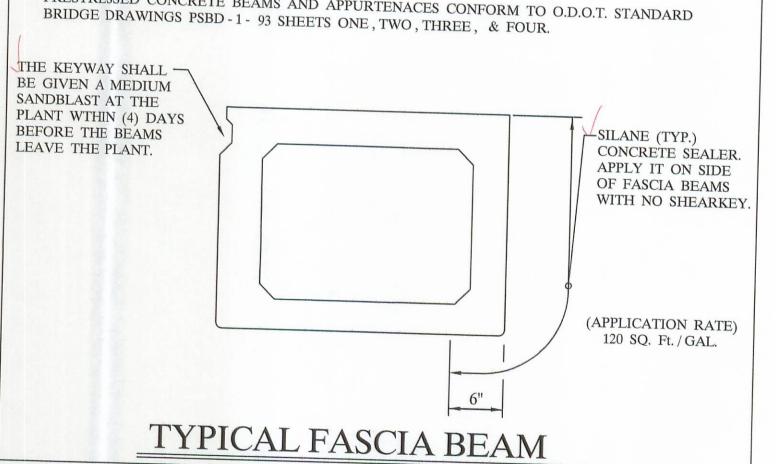
COMPRESSIVE STRENGTH, fc = 7000 PSI @ 28 DAYS (SHIPPING). fc = 5000 PSI @ RELEASE.

ASTM A - 416 GRADE 270 , 1/2" O.S. DIAMETER , SEVEN WIRE , UNCOATED LOW RELAXATION STRAND, As = .167 in. fs = 270 KSI. INITIAL STRESS: 0.75 fs = 202.5 KSI. PRESTRESSING STRAND

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

NOTE:

PRESTRESSED CONCRETE BEAMS AND APPURTENACES CONFORM TO O.D.O.T. STANDARD



BRIDGE NO. 35 - 4.24 PROJECT NO. T.R. 35 ITEM 515 LOGAN COUNTY IINITED DDECACTING

UNITED PRECASTINC.							
MT. VER	OUSE LANE NON, OHIO 43050 740)393-1121, FAX:(74	SCALE	DRAWN BY: PHIL REVISED				
JUNE 2005	APPROVED BY: E.O.C.	7 / 15 /	05	DRAWING NO. 4 OF 4			