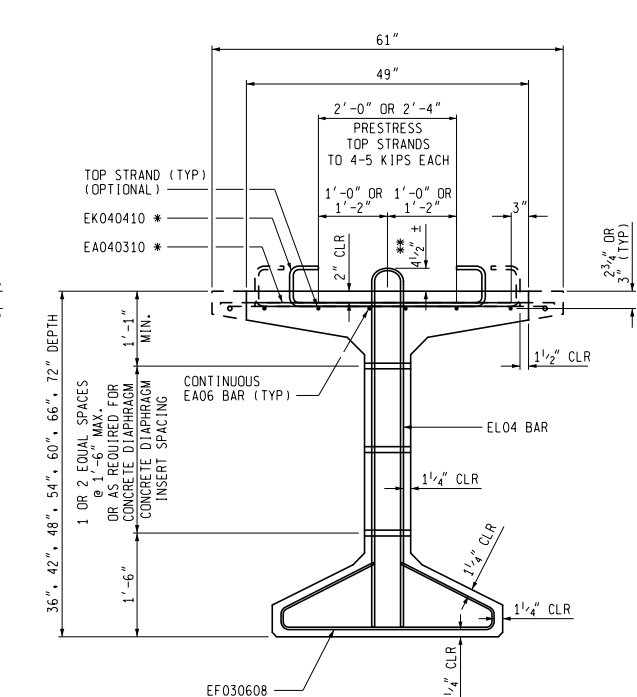
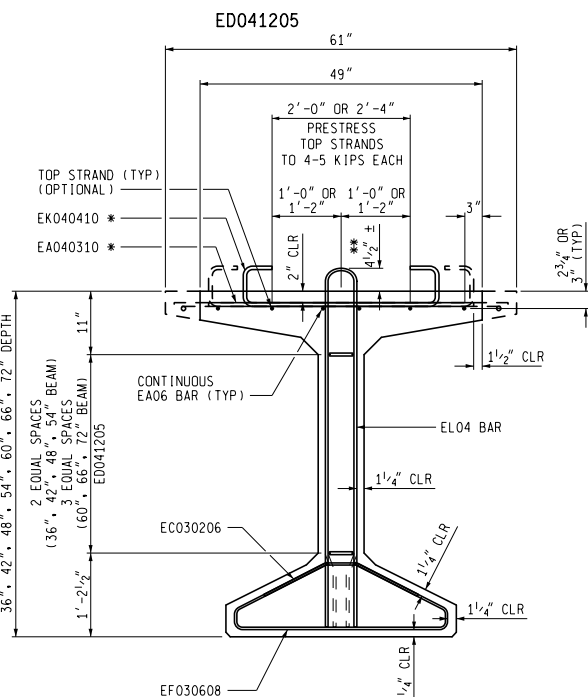
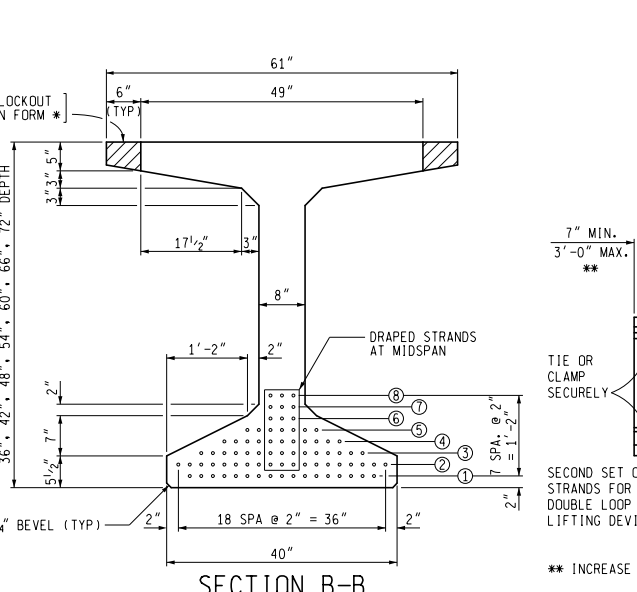
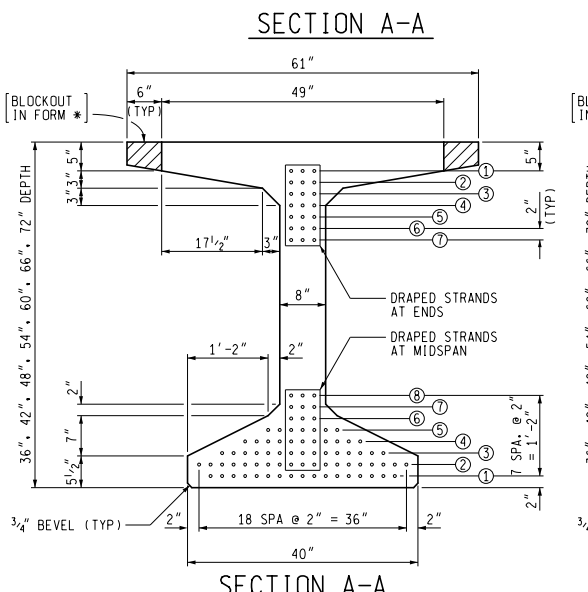


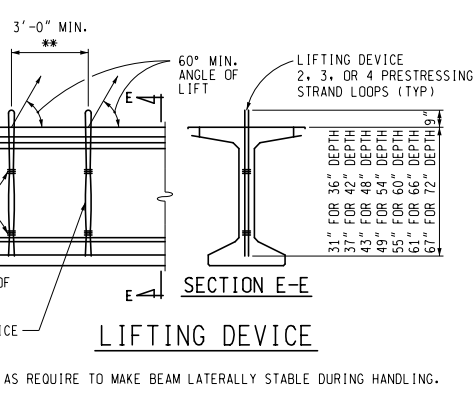
BEAM DATA	
NO.	REQ.
a	
b	
c	
d	
E	
f	
G	
I	
J	
K	
L	
L'	
M	
N	
R	
S	
T	
U	
V	
y	
y'	
Y	
Z	



NOTE:
EC030206 AND EF030608 BARS COMBINE TO FORM STIRRUP.
[** INCREASE IF LARGE HAUNCH ANTICIPATED.]
[* ALTERNATE EK04 WITH EA04 BARS IF REQUIRED FOR SHEAR/COMPOSITE ACTION. USE EA040410 AND EK040510 WITH BLOCKOUT REMOVAL / 61" TOP FLANGE. SEE BRIDGE DESIGN GUIDE 6.60.03B.]

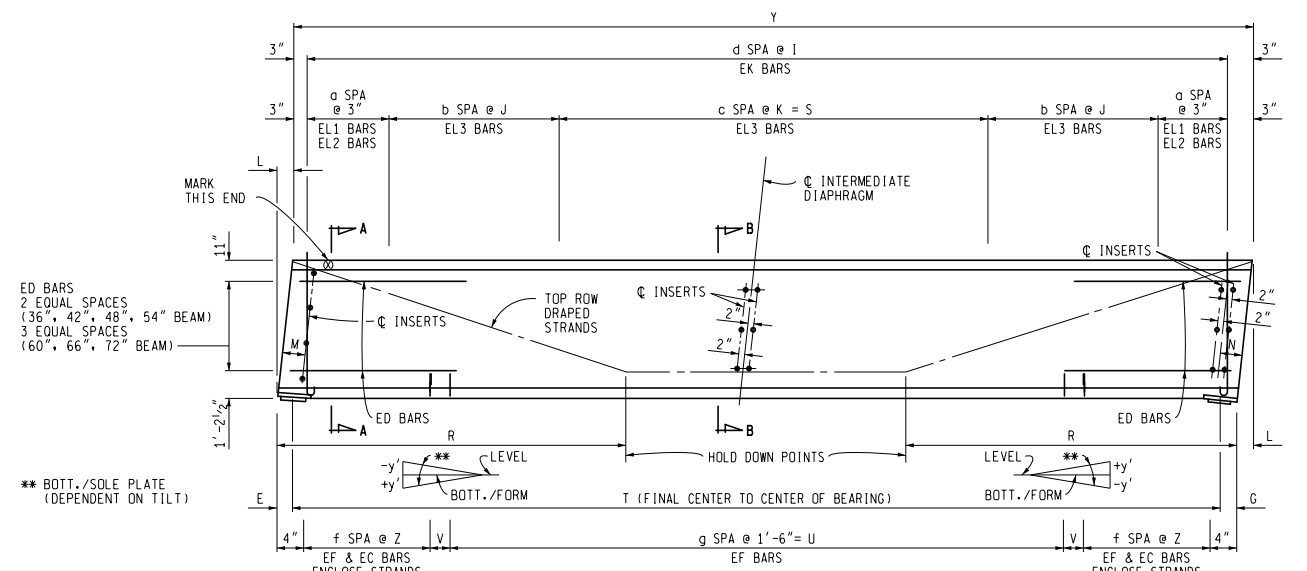


STAGGER CONCRETE INSERTS AT ENDS OF BEAMS.
USE CONTINUOUS OR STAGGERED INSERTS AT MIDSPAN. [USE FOR CONCRETE DIAPHRAGMS]
USE STAGGERED INSERTS AT MIDSPAN AND INDEPENDENT BACKWALLS, CAST PERPENDICULAR TO BEAM WEBS. [USE WITH STEEL DIAPHRAGMS WHEN REQUIRED θ ANGLE IS $< 80^\circ$]
USE CONTINUOUS HOLE FORMED WITH 1 1/2" I.D. PLASTIC PIPE. [USE WITH STEEL DIAPHRAGMS WHEN REQUIRED θ ANGLE IS $\geq 80^\circ$.]
BEND THREADED REINFORCEMENT FOR STAGGERED INSERTS TO THE REQUIRED θ ANGLE PRIOR TO INSTALLATION. [USE FOR CONCRETE DIAPHRAGMS AND ABUTMENTS WITH DEPENDENT BACKWALLS]
INSTALLATION OF BENT REINFORCEMENT MAY BE REQUIRED BEFORE BEAM IS ERECTED PRIOR TO INSTALLATION. [USE FOR CONCRETE DIAPHRAGMS AND ABUTMENTS WITH DEPENDENT BACKWALLS]
OMIT INSERTS ON OUTSIDE OF FASCIA BEAMS EXCEPT AT ABUTMENTS WITH DEPENDENT BACKWALLS.
USE 1 1/2" \emptyset CONTINUOUS HOLES IN BEAM WEB AT BEAM ENDS AND AT MIDSPAN.
USE CONCRETE INSERTS AT MIDSPAN, PIERS AND INDEPENDENT BACKWALL BRIDGES ON THE INTERIOR OF FASCIA BEAMS. OTHER BEAMS MAY USE INSERTS OR CONTINUOUS HOLES.

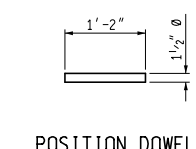


PRESTRESSING STRAND LIFTING DEVICES		
BEAM WEIGHT (TONS) ****	STRAND SIZE	NO. OF STRANDS
	1/2"	3
	0.6"	3
	1/2"	4
	0.6"	4
	1/2"	6 (DOUBLE LOOPS WITH 3 STRANDS)
	0.6"	6 (DOUBLE LOOPS WITH 3 STRANDS)

[**** INSERT BEAM WEIGHT FROM BRIDGE DESIGN GUIDE 6.65.14B BASED ON BEAM DEPTH.]



ELEVATION
NOTE: L AND L' SHOWN ARE POSITIVE.



MISCELLANEOUS QUANTITIES	
-----	5in Bearing, Elastomeric, ... inch
-----	Ft Prest Conc Bulb-Tee Beam, Furn, ... inch by ... inch
-----	Ft Prest Conc Bulb-Tee Beam, Erect, ... inch by ... inch

SOLE & TILT TABLE		
BEAM LINE	SPAN 1	
	ABUT A	ABUT B
	y	y'

ELASTOMERIC PAD AND SHIM DIMENSIONS			
		SPAN 1	
		ABUT A	ABUT B
PAD THICKNESS			
L PARALLEL TO BEAM			
W PERPENDIC. TO BEAM			
GG			
LAYERS		2 @	2 @
SHIMS		3 @	3 @

STRAND LOCATION TABLE																			
SPAN	MIDSPAN (SECTION B-B)								END FACE (SECTION A-A)								TOTAL NUMBER	REQUIRED CONCRETE COMPRESSIVE STRENGTH (PSI)	
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		28 DAY	AT RELEASE

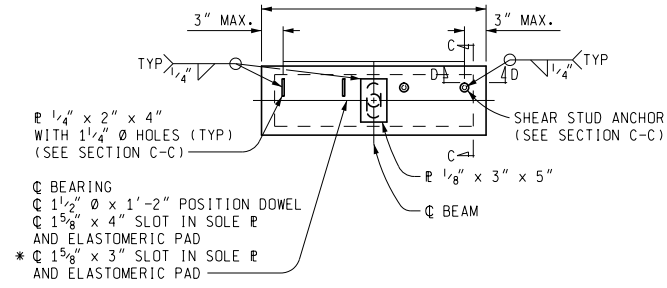
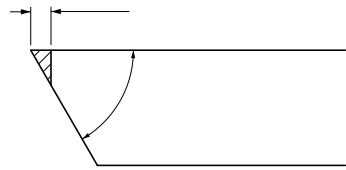
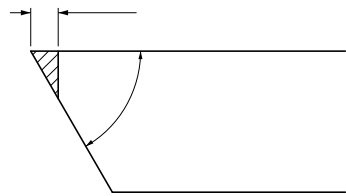
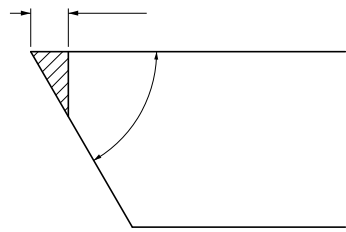
PLAN REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE
DRAWN BY:
CHK'D BY: CORR BY:
FILE:

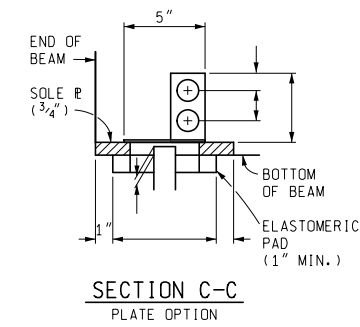
DATE:
DESIGN UNIT:
TSC:

CS:
JN:
PRESTRESSED CONCRETE
BULB-TEE BEAM DETAILS
PC-5A (07-25-2022)
DRAWING SHEET

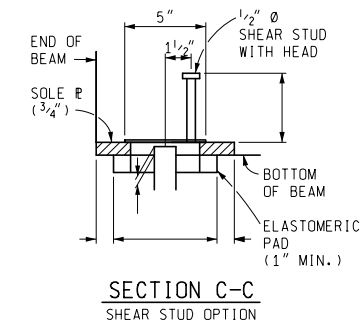


$\text{P } 1/4" \times 2" \times 4"$
 WITH $1/4" \text{ } \emptyset$ HOLES (TYP)
 (SEE SECTION C-C)
 C BEARING
 $\text{C } 1/2" \text{ } \emptyset \times 1'-2"$ POSITION DOWEL
 $\text{C } 1/8" \times 4"$ SLOT IN SOLE P
 AND ELASTOMERIC PAD
 * $\text{C } 1/8" \times 3"$ SLOT IN SOLE P
 AND ELASTOMERIC PAD

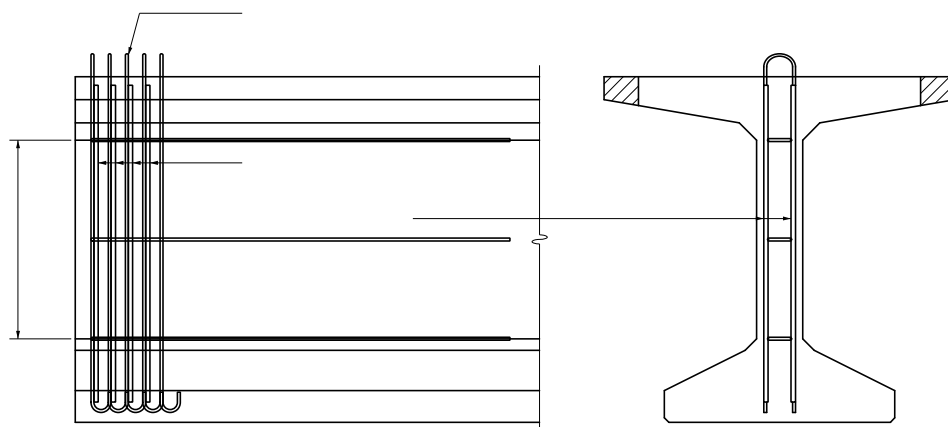
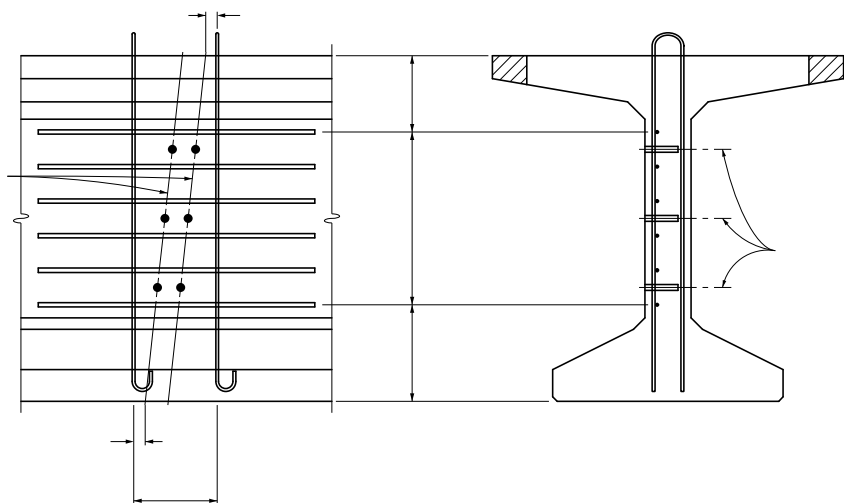
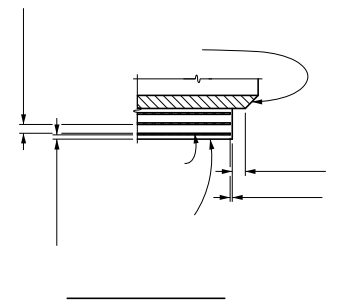
PLAN
BEARING DETAILS



SECTION C-C
PLATE OPTION



SECTION C-C
SHEAR STUD OPTION



PLAN REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DRAWN BY:	DATE:	CS:
CHK'D BY:	DESIGN UNIT:	JN:
FILE:	TSC:	

PRESTRESSED CONCRETE
 BULB-TEE BEAM DETAILS
 PC-5A (07-25-2022)

DRAWING SHEET