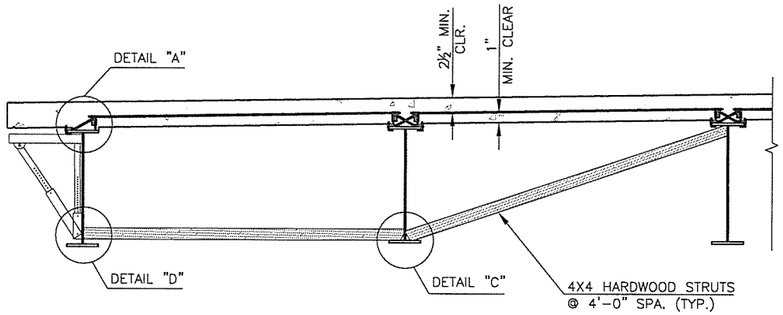
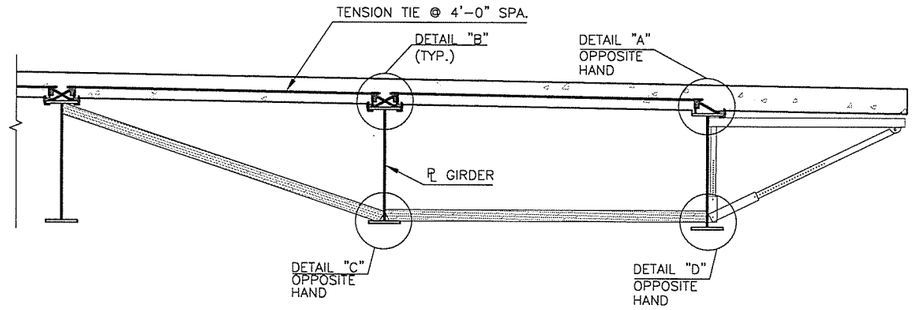
CEC // TRANSPORTATION		
DESCRIPTION	REVISIONS	DATE





BEAM BRACING FOR DECK SLAB PLACEMENT

BRACING NOTES:

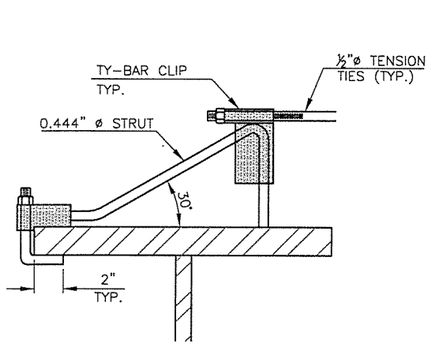
SUBMIT DRAWINGS OF THE BRACING SYSTEM TO THE BRIDGE ENGINEER FOR APPROVAL. BRACING SYSTEMS OTHER THAN THAT SHOWN MAY BE USED IF DESIGN CALCULATIONS AND DRAWINGS OF THE PROPOSED BRACING SYSTEM ARE SUBMITTED TO AND APPROVED BY THE BRIDGE ENGINEER. DRAWINGS AND CALCULATIONS OF THE PROPOSED SYSTEM SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OKLAHOMA. DO NOT PLACE DECK SLAB CONCRETE UNTIL BRACING SYSTEM IS APPROVED. THE DEPARTMENT CONSIDERS ALL COST FOR BRACING TO BE INCLUDED IN OTHER ITEMS OF WORK.

USE ADJUSTABLE CANTILEVER FORMING BRACKETS AT EXTERIOR BEAMS CAPABLE OF BEING ADJUSTED DURING THE PLACEMENT OF DECK SLAB CONCRETE IN ORDER TO MAINTAIN PROPER GRADES AT THE DECK SLAB OVERHANG. IF SHIMS ARE TO BE USED TO ADJUST THE FORMING BRACKETS, PROVIDE THE BRIDGE ENGINEER A METHOD TO PREDICT CRUSH AND SETTLEMENT OF SHIMS. BEAR THE LEG BRACE OF THE BRACKETS ON THE BEAM WEB WITHIN 6 INCHES OF THE BOTTOM FLANGE.

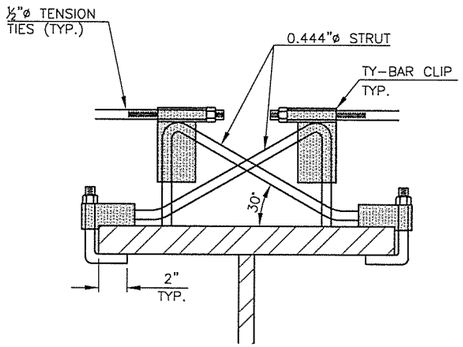
THE BEAMS SHALL BE TIED TOGETHER AT 4'-0" INTERVALS AS SHOWN IN THE DETAILS.

WOOD STRUTS SHALL BE HARDWOOD OR OF AN EQUIVALENT STRENGTH MATERIAL. WEDGE STRUTS BETWEEN GIRDER WEBS WITHIN 6" OF THE BOTTOM FLANGE OF EACH BEAMS. LOCATE WOOD STRUTS WHERE THE TOP OF THE BEAMS ARE TIED TOGETHER WITH TENSION TIES.

TENSION TIES SHALL BE A MINIMUM #4 EPOXY-COATED REINFORCING STEEL BARS WITH THREADED ENDS ON 0.5" GALVANIZED ALL-THREAD, FURNISHED BY THE CONTRACTOR. THE TENSION TIES SHALL BE PLACED PERPENDICULAR TO THE BEAMS. TENSION TIES SHALL BE ATTACHED TO THE TOP FLANGE OF BEAMS BY MEANS OF TY-BAR CLIPS AS SHOWN ON THE DETAILS. TY-BAR CLIPS SHALL BE EPOXY COATED. WELDING OF CLIPS TO THE TOP FLANGE OF BEAMS WILL NOT BE PERMITTED.



DETAIL "A"



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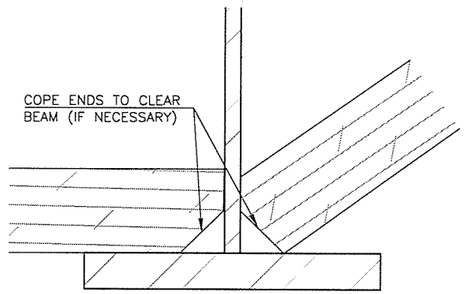
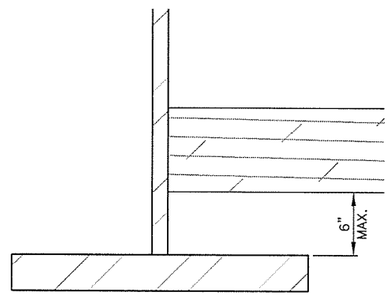


DETAIL"C"



DETAIL"D"

DESIGN	B.J.K.		4TH OVER I-444 TULSA COUNTY
DRAWN	R.A.P.		**BEAM BRACING DETAILS**
CHECKED	B.J.K.	J.W.H.	
APPROV.	T.A.C.		JOB PIECE NO. 28868(04) SHEET NO. 32
SQUAD	CEC		