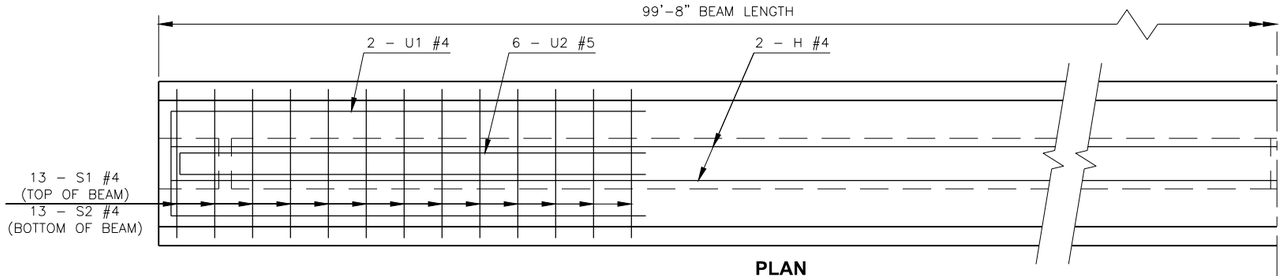
CEC // TRANSPORTATION

DESCRIPTION	REVISIONS	DATE

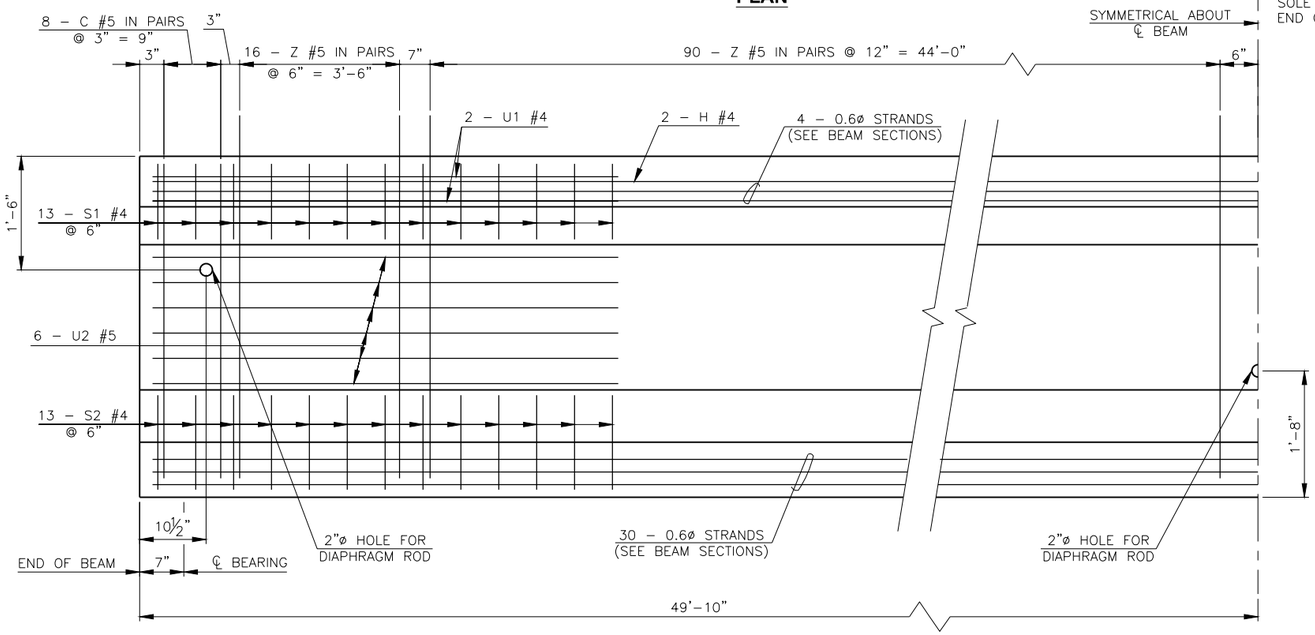
PRESTRESSED CONCRETE BEAM NOTES

COMPRESSIVE STRENGTH
PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH OF 7,000 P.S.I. AT TRANSFER OF PRESTRESS AND 10,000 P.S.I. AT 28 DAYS.

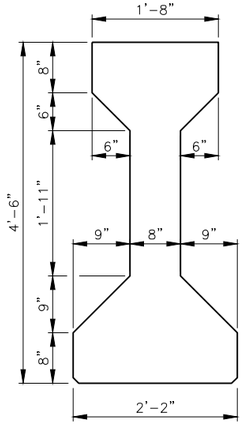
STRAND TYPE
PROVIDE LOW-RELAXATION STRANDS HAVING A NOMINAL DIAMETER OF 0.6" WITH ULTIMATE TENSILE STRENGTH OF 270 K.S.I.



PLAN

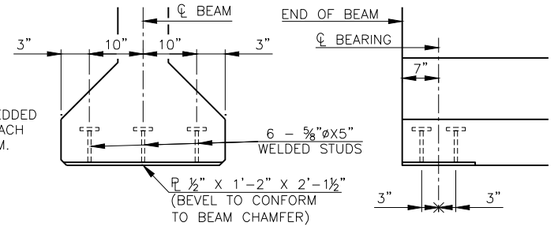


ELEVATION



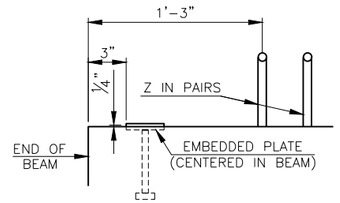
END VIEW

NOTE:
PROVIDE AN EMBEDDED SOLE PLATE AT EACH END OF THE BEAM.

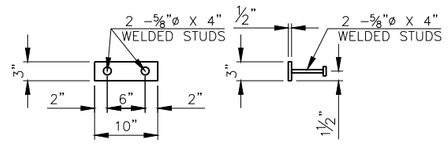


END VIEW **ELEVATION**

EMBEDDED SOLE PLATE DETAILS



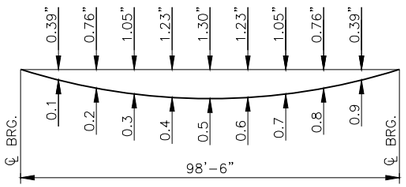
ELEVATION



TOP VIEW **END VIEW**

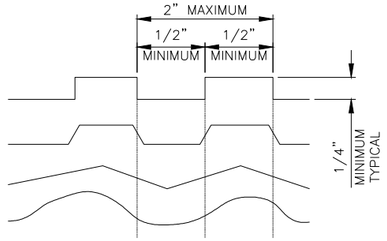
EMBEDDED BEAM PLATE DETAILS

NOTE:
PROVIDE AN EMBEDDED BEAM PLATE AT EXPANSION ENDS ONLY.



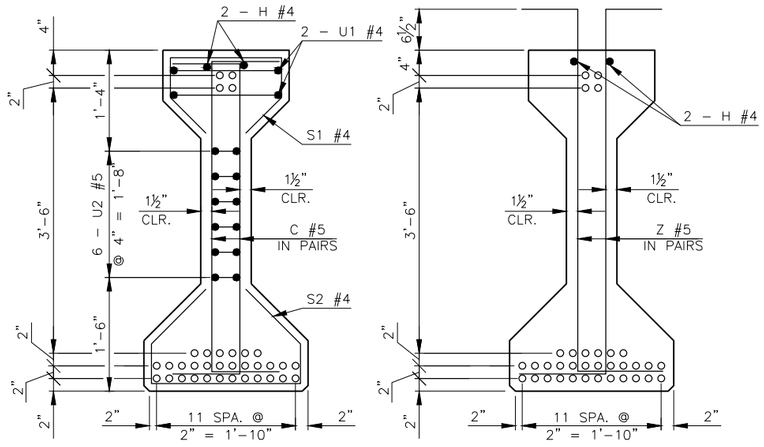
DEAD LOAD DEFLECTION DIAGRAM

NOTE:
THE DEAD LOAD DEFLECTION SHOWN ABOVE AT THE TENTH POINTS ARE THE INITIAL DEFLECTIONS DUE TO DECK SLAB + DIAPHRAGMS + HAUNCH + CONCRETE TRAFFIC RAIL. IT DOES NOT INCLUDE THE BEAM WEIGHT OR FUTURE WEARING SURFACE.



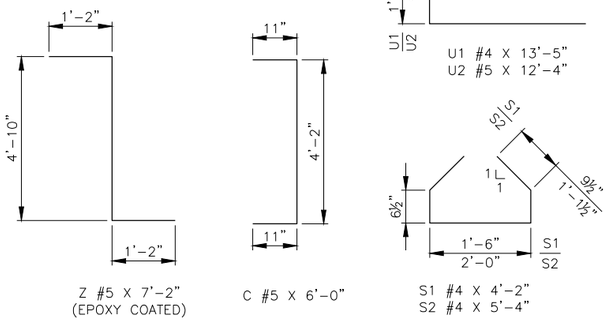
INTENTIONALLY ROUGHENED SURFACE DETAILS

TOP SURFACE OF P.C. BEAMS SHALL BE INTENTIONALLY ROUGHENED TO A MINIMUM HEIGHT OF 1/4" OVER A MAXIMUM PITCH OF 2" MEASURED LONGITUDINALLY ALONG THE LENGTH OF THE BEAM. THE CREST AND TROUGH ASSOCIATED WITH THE HEIGHT SHALL NOT BE LESS THAN 1/2" AND SHALL EXTEND THE FULL WIDTH OF THE TOP FLANGE. PRODUCE THE ROUGHENED SURFACE BY USING A SPECIAL TROWEL TO FORM ONE OF THE SURFACES SOWN IN THE DETAILS, BY CLEANING THE CONCRETE SURFACE WITH A STIFF WIRE BRUSH (OR BLASTING) TO THE EXTENT THAT AGGREGATE IS EXPOSED TO A HEIGHT OF 1/4", OR BY ANOTHER APPROVED METHOD. THE METHOD USED SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. REPAIR ANY DAMAGE TO THE REINFORCEMENT'S EPOXY COATING BEFORE PLACEMENT OF DECK CONCRETE.



END SECTION **℄ SECTION**

BEAM SECTIONS
(34 - 0.6"ø STRANDS)



TYPE IV P.C. BEAM BAR BEND DETAILS

THIS DRAWING IS PRELIMINARY IN NATURE. IT IS NOT A FINAL SIGNED AND SEALED DRAWING

DESIGN	J.W.H.	
DRAWN	R.A.P.	
CHECKED	J.W.H.	
APPROV.	T.A.C.	
SQUAD	CEC	

SH34 OVER N. PERSIMMON CREEK WOODWARD COUNTY
BRIDGE A

P.C.B. DETAILS-TYPE IV

JOB PIECE NO. 28827(04) SHEET NO. 34