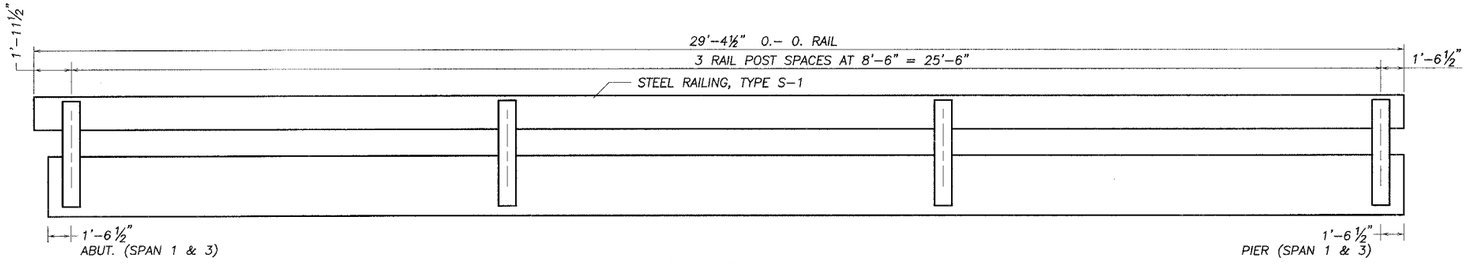
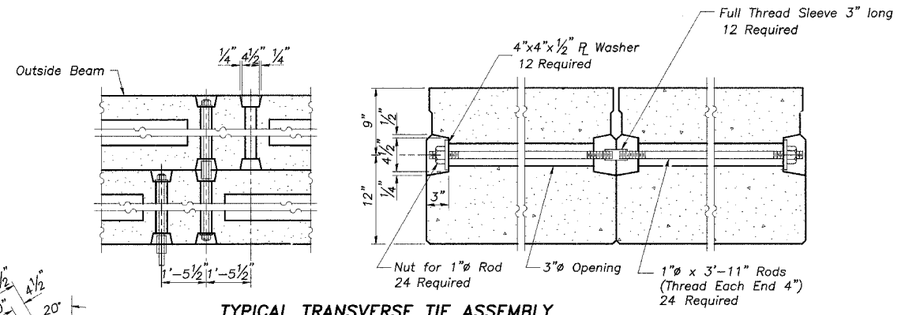
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	WOODFORD	17	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
6 SHEETS

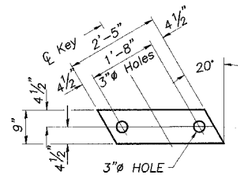
* Section 02-08143-00-BR
CONTRACT NO. 89390



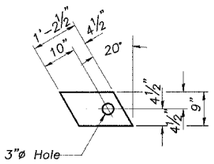
ELEVATION



TYPICAL TRANSVERSE TIE ASSEMBLY

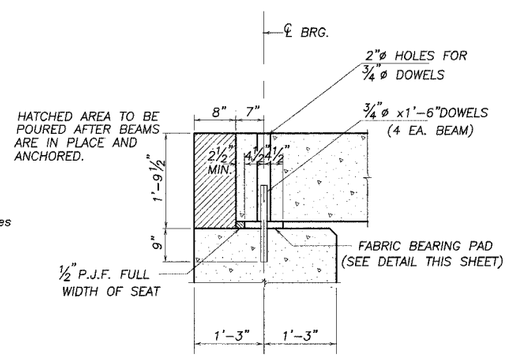


FABRIC BEARING PAD
(Interior)

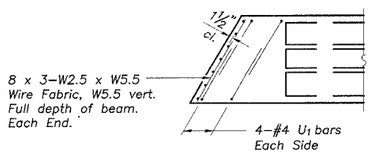


FABRIC BEARING PAD
(Exterior)

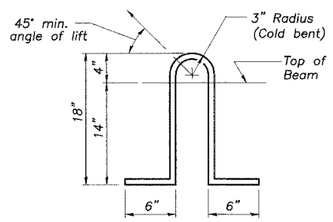
PLAN



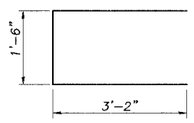
SECTION THRU ABUTMENTS
AT RT. L'S



END PLAN



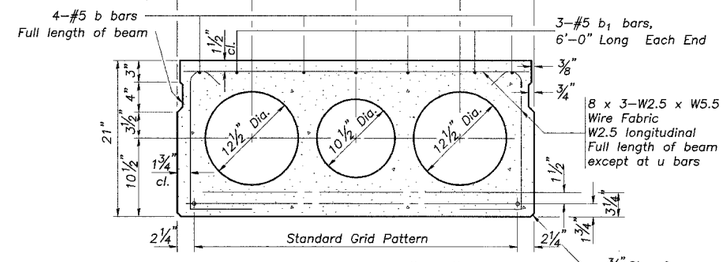
LIFTING LOOP DETAIL



BAR u_1

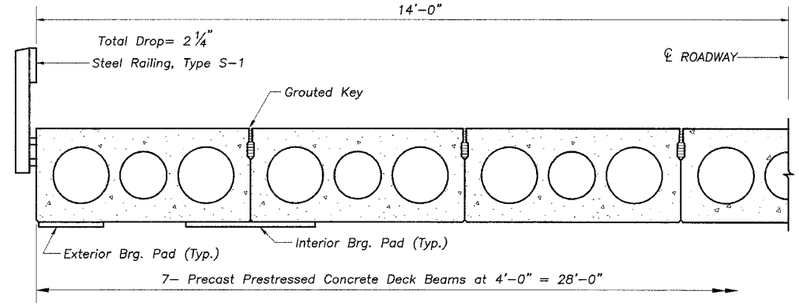
BILL OF MATERIAL - SUPERSTRUCTURE

ITEM	UNIT	QUANTITY
PRECAST PRESTRESSED CONCRETE DECK BEAMS (21")	SQ. FT.	1601
PROTECTIVE COAT	SQ. YD.	200



TYPICAL SECTION THRU 21"x48" BEAM
7- ½"ø Strands, Each Strand Stressed to 28,900 Lbs.
7 -Strands 1¾" up

Note: Place strands symmetrically about ℄ of beam.



HALF CROSS SECTION

SUPERSTRUCTURE NOTES

PRESTRESSING STEEL SHALL BE UNCOATED HIGH STRENGTH, STRESS-RELIEVED 7-WIRE STRAND, GRADE 270. THE NOMINAL DIAMETER SHALL BE 1/2" AND THE NOMINAL CROSS-SECTIONAL AREA SHALL BE 0.153 SQ. IN.

LIFTING LOOPS SHALL BE 2 - 1/2" DIAMETER - 270 KSI STRANDS, AS SHOWN. EACH BEAM SHALL HAVE FOUR LIFTING LOOPS, TWO CAST IN EACH END. LOOPS SHALL BE BURNED OFF AFTER DECK BEAMS HAVE BEEN ERECTED.

KEYWAY SURFACES SHALL BE CLEANED TO REMOVE FORM OIL OR OTHER BOND BREAKING MATERIAL PRIOR TO SHIPMENT OF THE BEAMS. CLEANING SHALL BE DONE BY SANDBLASTING THE KEYWAY AREAS BETWEEN TOP OF THE BEAM AND THE BOTTOM EDGE OF THE KEY.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.

THE BEARING SEAT SURFACES SHALL BE ADJUSTED BY SHIMMING TO ASSURE FIRM AND EVEN BEARING. TWO 1/8" FABRIC ADJUSTING SHIMS OF THE DIMENSIONS OF THE EXTERIOR BEARING PAD SHALL BE PROVIDED FOR EACH BEARING.

REQUIRED RELEASE STRENGTH, F'CI, SHALL BE 4000 P.S.I.

AN EQUAL SUBSTITUTION OF THE LOW-RELAXATION STRANDS FOR THE STRESS-RELIEVED STRANDS WILL BE PERMITTED.

THE 1" DIAMETER RODS IN THE TRANSVERSE TIE ASSEMBLY SHALL BE TIGHTENED TO A SNUG FIT AND THE THREADS SET. POCKETS THAT RECEIVE A TRANSVERSE TIE BAR ON THE OUTSIDE EDGE SHALL BE FILLED WITH GROUT AFTER THE TRANSVERSE TIE ASSEMBLY IS IN PLACE.

ALL TRANSVERSE TIE-ASSEMBLIES (NUTS, BOLTS, AND WASHERS) SHALL BE HOT-DIPPED GALVANIZED.

AFTER THE DECK BEAMS HAVE BEEN SET, 1 1/4" DIAMETER HOLES SHALL BE DRILLED INTO THE BRIDGE SUB-STRUCTURE AND THE DOWEL RODS GROUTED IN PLACE, AND ALLOWED TO CURE A MINIMUM OF 24 HOURS PRIOR TO GROUTING THE SHEAR KEYS ON THE DECK.

LONGITUDINAL SHEAR KEYS AND DOWEL HOLES SHALL BE FILLED WITH AN APPROVED NON-SHINK GROUT.

PROTECTIVE COAT QUANTITY IS INCLUDED FOR THE TOP SURFACE OF THE DECK BEAMS AND THE OUTSIDE FACES OF THE DECK.

A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS, SHALL BE USED IN THE CONCRETE FOR THE PRECAST PRESTREESED CONCRETE DECK BEAMS.

THE CUT STRANDS AT EACH BEAM END SHALL BE GIVEN TWO COATS OF ZINC DUST SPRAY OR PAINT MEETING THE REQUIREMENTS OF ASTM A 780. THE ZINC DUST SPRAY OR PAINT SHALL BE APPLIED BEFORE CORROSION APPEARS AND ALLOWED TO DRY ACCORDING TO THE MANUFACTURES SPECIFICATIONS PRIOR TO ANOTHER COAT OF ZINC. A CONCRETE SEALER MEETING THE REQUIREMENTS OF SECTION 587 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO THE EXTERIOR FACE AND 9" IN ON THE UNDERSIDE OF THE FASCIA BEAMS. THE SEALER SHALL BE APPLIED AFTER VISIBLE CRACK GROWTH HAS SUBSIDED. THIS WORK SHALL BE PERFORMED BY THE PRODUCER AND INCLUDED WITH THE CAST OF THE BEAM.

SUPERSTRUCTURE
SPANS 1 & 3
SECTION 02-08143-00-BR
METAMORA ROAD DISTRICT
WOODFORD COUNTY

PD-4-L 3-1-94