

131-0.07

F.W.A. NUMBER	STATE	PROJECT
5	OHIO	

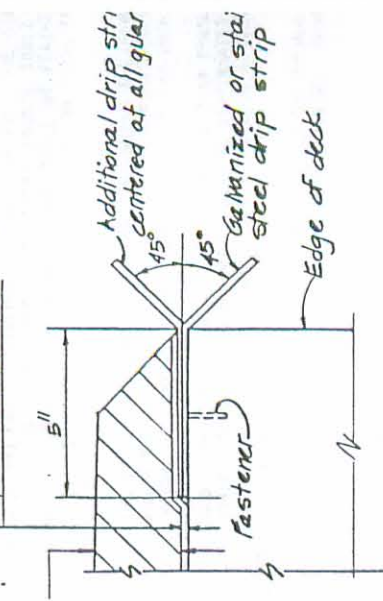
LOGAN COUNTY
LOG-TR131-0.06
LOG-CR8-0.84

NOTES:

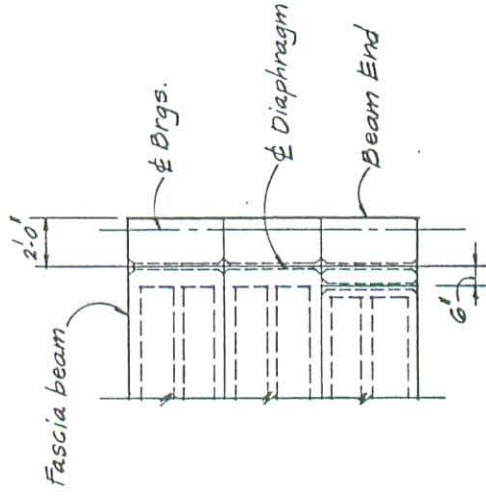
DRIP STRIP: PRIOR TO APPLYING TYPE D WATERPROOFING, A STRIP SHALL BE INSTALLED ALONG THE EDGES OF THE DECK. THE STRIPS SHALL BE FASTENED AT 1'-6" C/C MAXIMUM WITH 5/32" X 1/4" FLAT HEAD DRIVE PIN AND WASHER. (LENGTH DIAMETER X HEAD DIAMETER) OR #10 GALVANIZED SCREWS AND ANCHORS, SUBJECT TO THE APPROVAL OF THE ENGINEER. SHALL BE PLACED THE FULL LENGTH OF THE DECK, ENDING AT THE ABUTMENT WING WALL. WHERE SPLICES ARE REQUIRED (MINIMUM) LAP SHALL BE USED WITH A FASTENER THROUGH THE REQUIREMENTS OF ASTM A568. GALVANIZING SHALL BE IN WITH 711.02. STAINLESS STEEL SHALL BE AT THE CONTRACT PRICE 304, MILL FINISH. PAYMENT SHALL BE AT THE CONTRACT PRICE SPECIAL, SQ.FT. STEEL DRIP STRIP, WHICH SHALL IN MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE.

For additional superstructure details, see

Type "D" Waterproofing

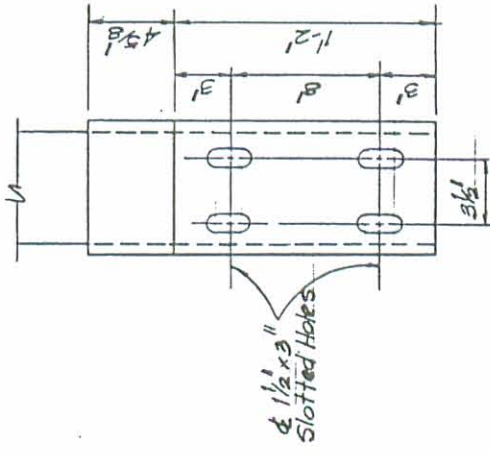


DRIP STRIP DETAIL

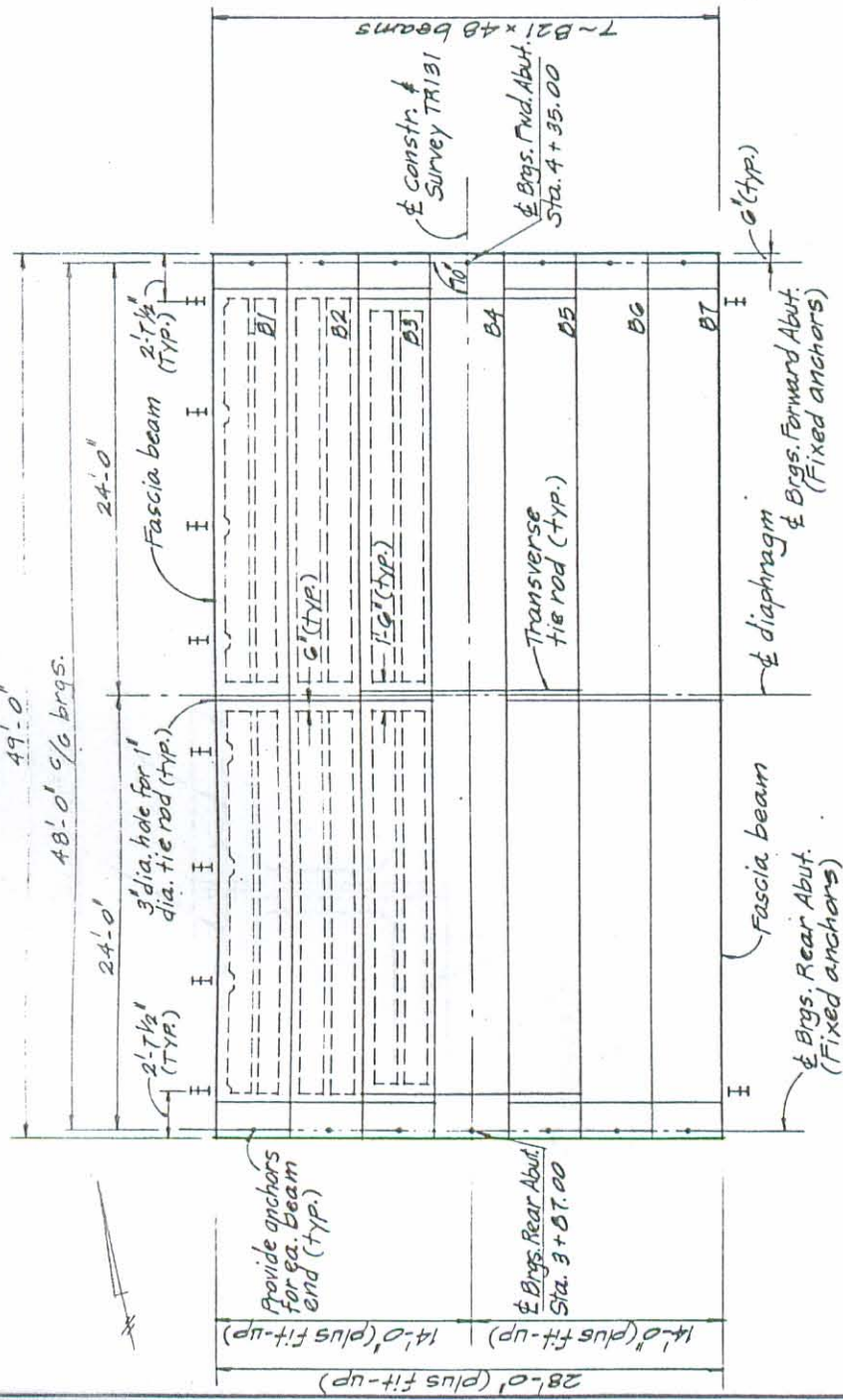


PARTIAL PLAN OF END DIAPHRAGMS

Asphalt conc. Item 404 varies-403

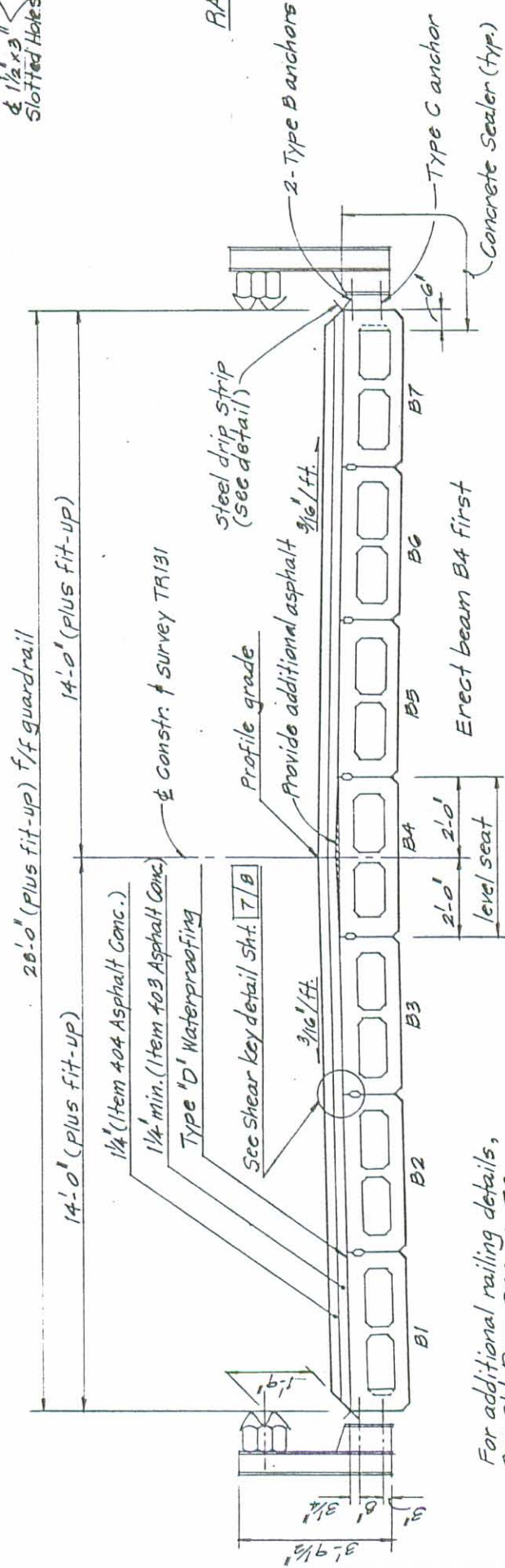


RAILING POST DETAIL



SUPERSTRUCTURE PLAN

Railing post spacing @ 6'-3" (typ. both sides) Railing posts dimensioned from beam ends.
omit keyway on outside of fascia beam



DECK SECTION

For additional railing details, see STD. Dwg. DBA-2-73

KORDA / NEMETH ENGINEERING, INC
CONSULTING ENGINEERS

SUPERSTRUCTURE DE1
BRIDGE NO. LOG - TR131 -
OVER BRANCH OF MILL CR

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
DFT	B.T.J.		MTO		10/21

NOTES:

PRESTRESSING STRANDS ARE ASTM A416, 1/2-INCH, 7 WIRE UNCOATED, STRESS-RELIEVED STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND AN INITIAL TENSION OF 28,900 LBS. PER STRAND.

REFER TO STANDARD DRAWING PSBD-1-81 FOR THE FOLLOWING DETAILS:

- BEAM LIFTING INSERTS
- MILD STEEL REINFORCEMENT AND REINFORCING OF BEAM ENDS.
- ANCHOR DOWELS
- END DETAILS OF TRANSVERSE TIE ROD ANCHORAGE
- BEAM DIMENSIONAL TOLERANCES
- DIMENSIONS OF BEAM SECTION
- WALL THICKENING AT RAILING POST ANCHORS
- TYPICAL PLANS OF DIAPHRAGMS AND TRANSVERSE TIE RODS
- NORMAL CROWN TREATMENT AT CENTERLINE OF ROADWAY

REFER TO STANDARD DRAWING PSBD-1-81 FOR THE FOLLOWING NOTES:

- TRANSVERSE TIE RODS
- GALVANIZING
- ANCHOR DOWELS
- END OF BEAMS
- MORTARING OF SHEAR KEYS
- NON-SHRINKING MORTAR PREPARATION OF CONCRETE SURFACES IN CONTACT WITH NON-SHRINKING MORTAR

AS REQUIRED TO SUPPLEMENT APPLICABLE DETAILS.

ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 403 AND A 1-1/4-INCH THICKNESS OF 404. THE 403 SHALL BE PLACED IN TWO OPERATIONS. THE FIRST COURSE SHALL BE OF 1-1/4-INCH THICKNESS. THE SECOND COURSE SHALL BE FEATHERED TO PLACE THE SURFACE PARALLEL TO AND 1-1/4-INCH BELOW FINAL PAVEMENT SURFACE ELEVATION.

CALCULATED CAMBER AT TIME OF PAVING, INCLUDING ALLOWANCE FOR CAMBER GROWTH DUE TO CREEP, IS 1-5/8-INCH. CALCULATED DEFLECTION DUE TO WEIGHT OF SURFACE COURSE AND RAILING IS 1/8-INCH. NET FINAL CAMBER OF BEAMS IS 1-1/2-INCH. THIS IS 1-1/2-INCH IN EXCESS OF THE AMOUNT REQUIRED TO PLACE THE TOP OF THE BEAM PARALLEL TO PROFILE GRADE. THIS ADDITIONAL AMOUNT SHALL BE COMPENSATED FOR BY THICKENING THE 403 LEVELING COURSE FROM 1-1/4-INCH AT CENTER OF SPANS TO 2-3/4-INCH AT ENDS OF SPANS.

A BOND BREAKER SHALL BE USED ON ALL PORTIONS OF THE ANCHOR DOWELS PROJECTING ABOVE THE BRIDGE SEAT AT THE FIXED BEARING. DOWEL BARS SHALL BE 3/4-INCH DIAMETER PLAIN BARS.

TOLERANCES FOR LAMINATED ELASTOMERIC BEARING:

INDIVIDUAL ELASTOMER LAYER THICKNESS: +20% OF DESIGN VALUE (NOT TO EXCEED (+) 1/8-INCH)

PLAM DIMENSIONS: -0, +1/4-INCH

DESIGN THICKNESS < 1-1/4-INCH: -0, +1/8-INCH

EDGE COVER OF EMBEDDED LAMINATES: -0, +1/8-INCH

LAMINATED ELASTOMERIC BEARINGS:

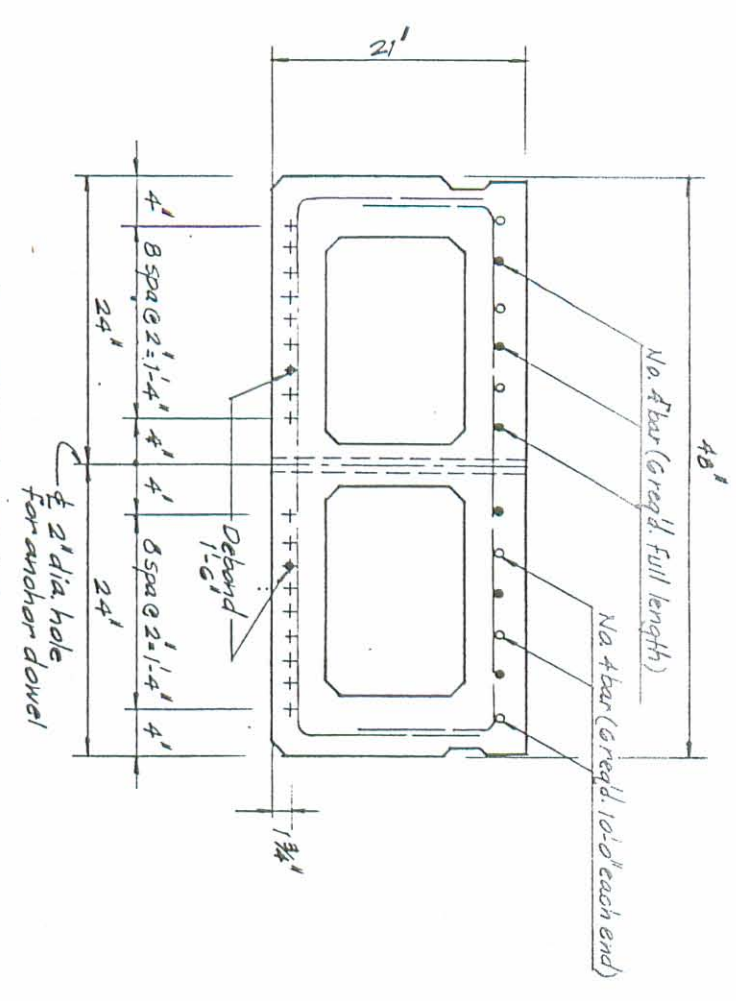
THE MAXIMUM DESIGN LOAD FOR THE LAMINATED ELASTOMERIC BEARING PADS IS 21.4 KIPS. MAXIMUM DEAD LOAD IS 11.8 KIPS, AND MAXIMUM LIVE LOAD IS 9.6 KIPS.

For additional Superstructure details see sh. 7/9

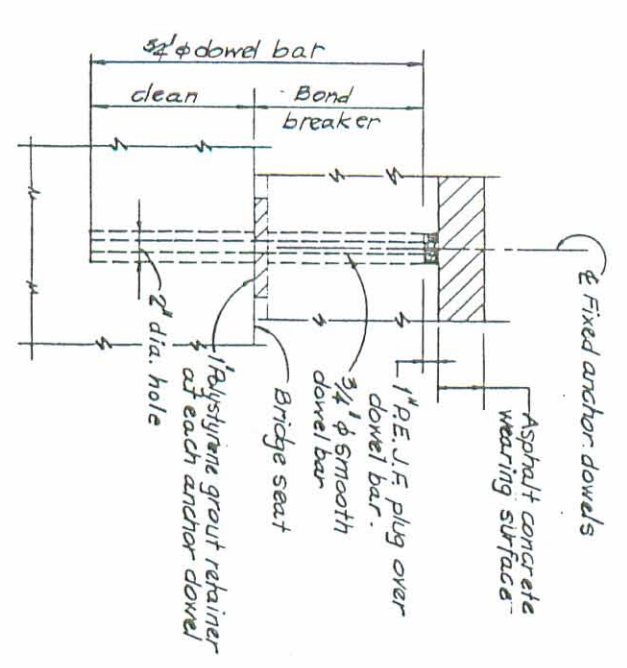
KORDA / NEMETH ENGINEERING, INC.
CONSULTING ENGINEERS

SUPERSTRUCTURE DETAILS,
BRIDGE NO. LOG - TR131 - 0007
OVER BRANCH OF MILL CREEK

DESIGNED	DPT	DRAWN	ETU	TRACKED	MTO	CHECKED	REVISED	DATE	12/19/90
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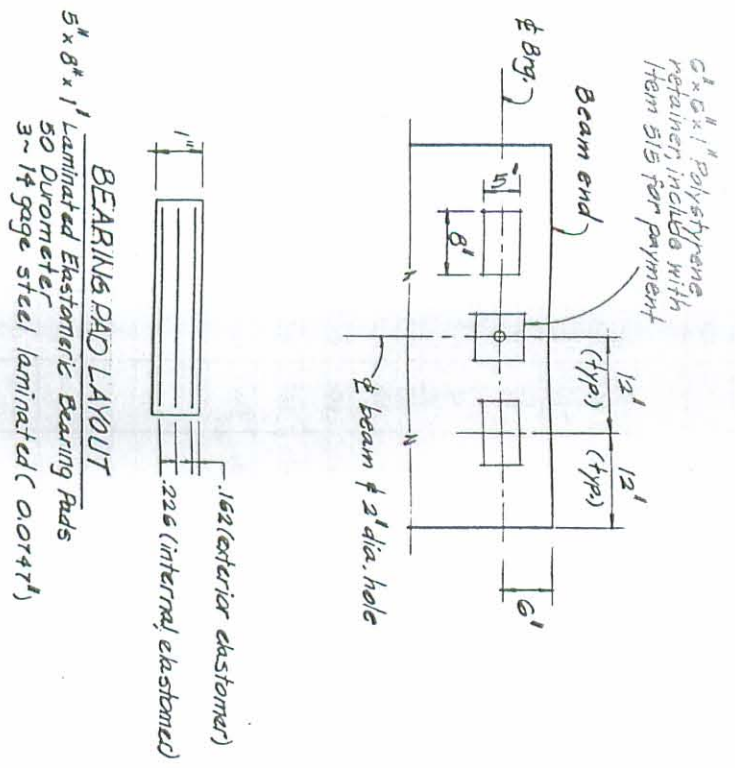


BOX BEAM DETAILS
(18 Strands)
For additional box beam details see Std. Dwg. PSBD-1-81

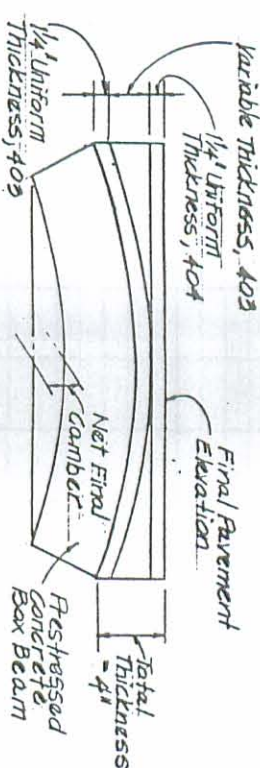


FIXED ANCHOR DOWEL

Procedure: Place 1" polystyrene grout retainer, drill and clean dowel hole. Then place non-shrink grout, dowel and plug. Included for payment with Item 515.



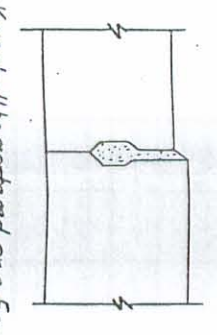
BEARING PAD LAYOUT

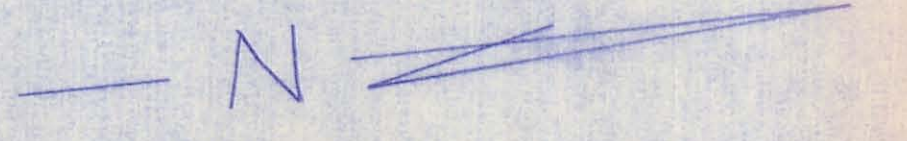
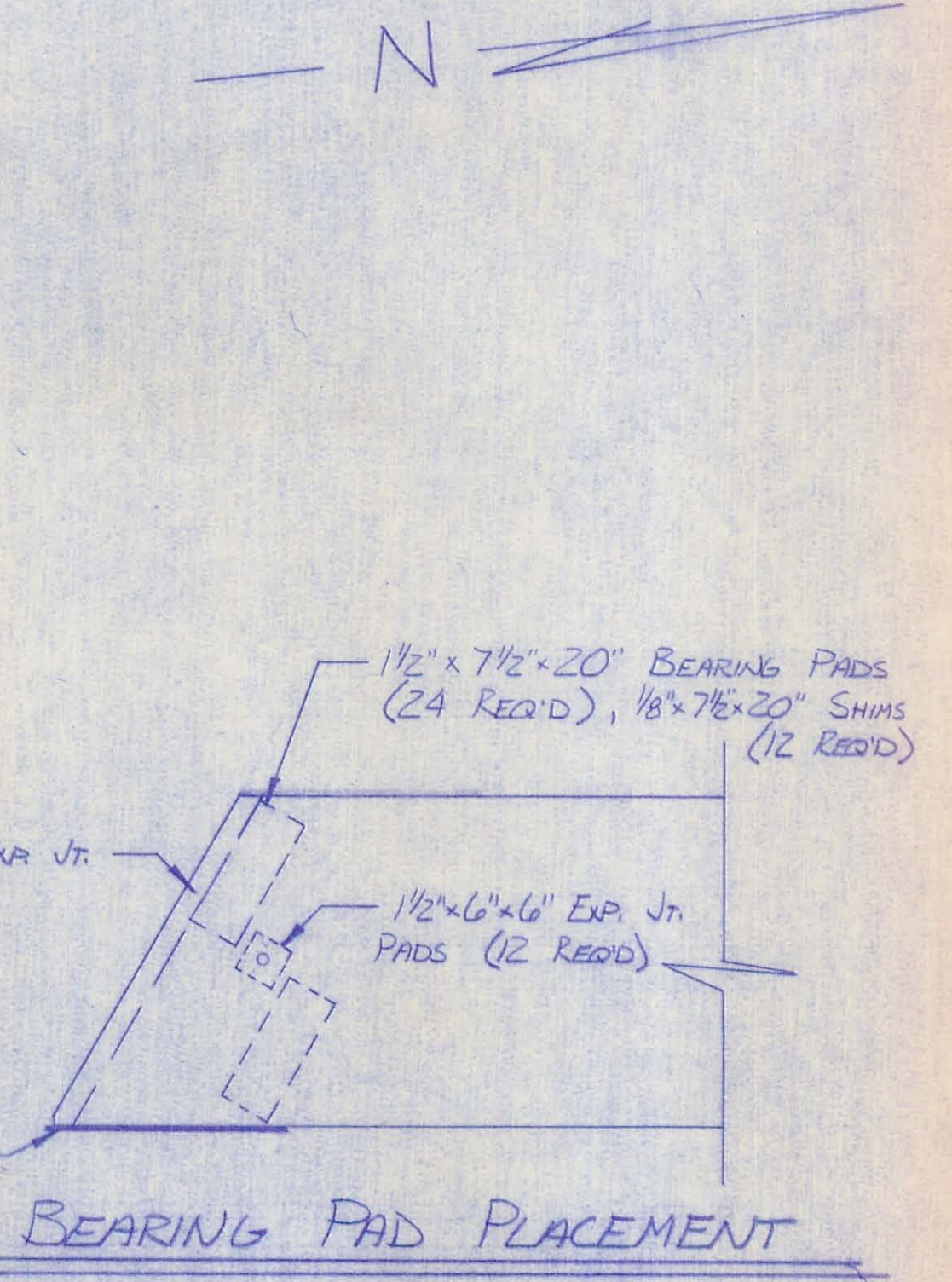
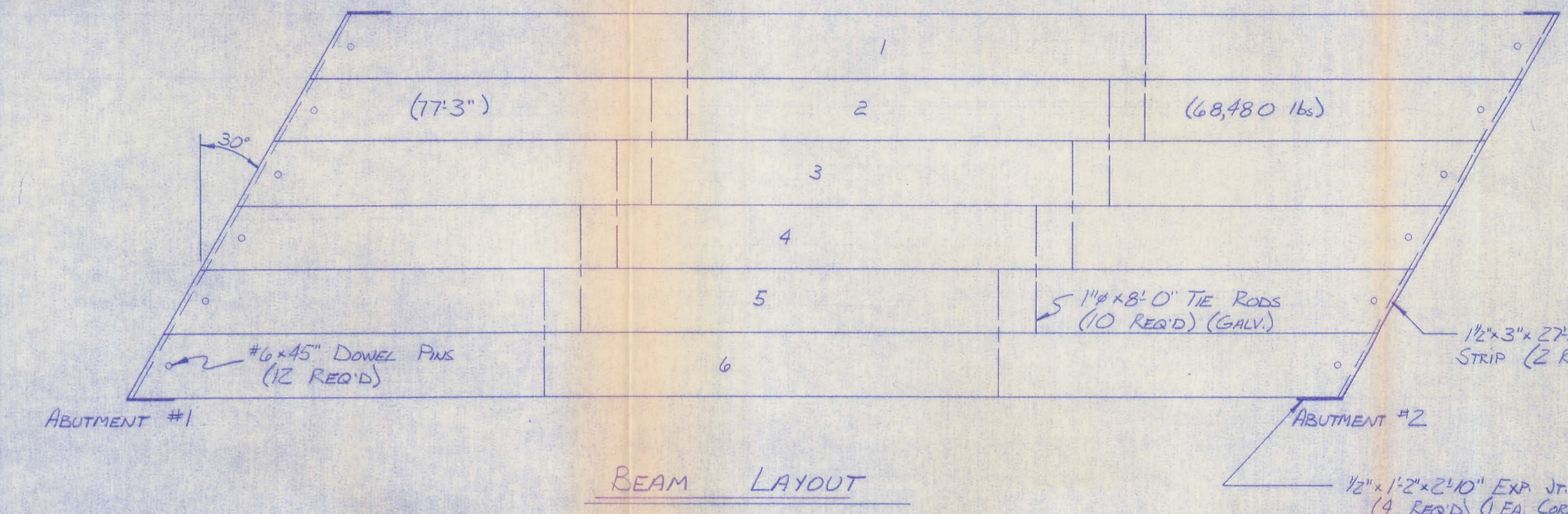
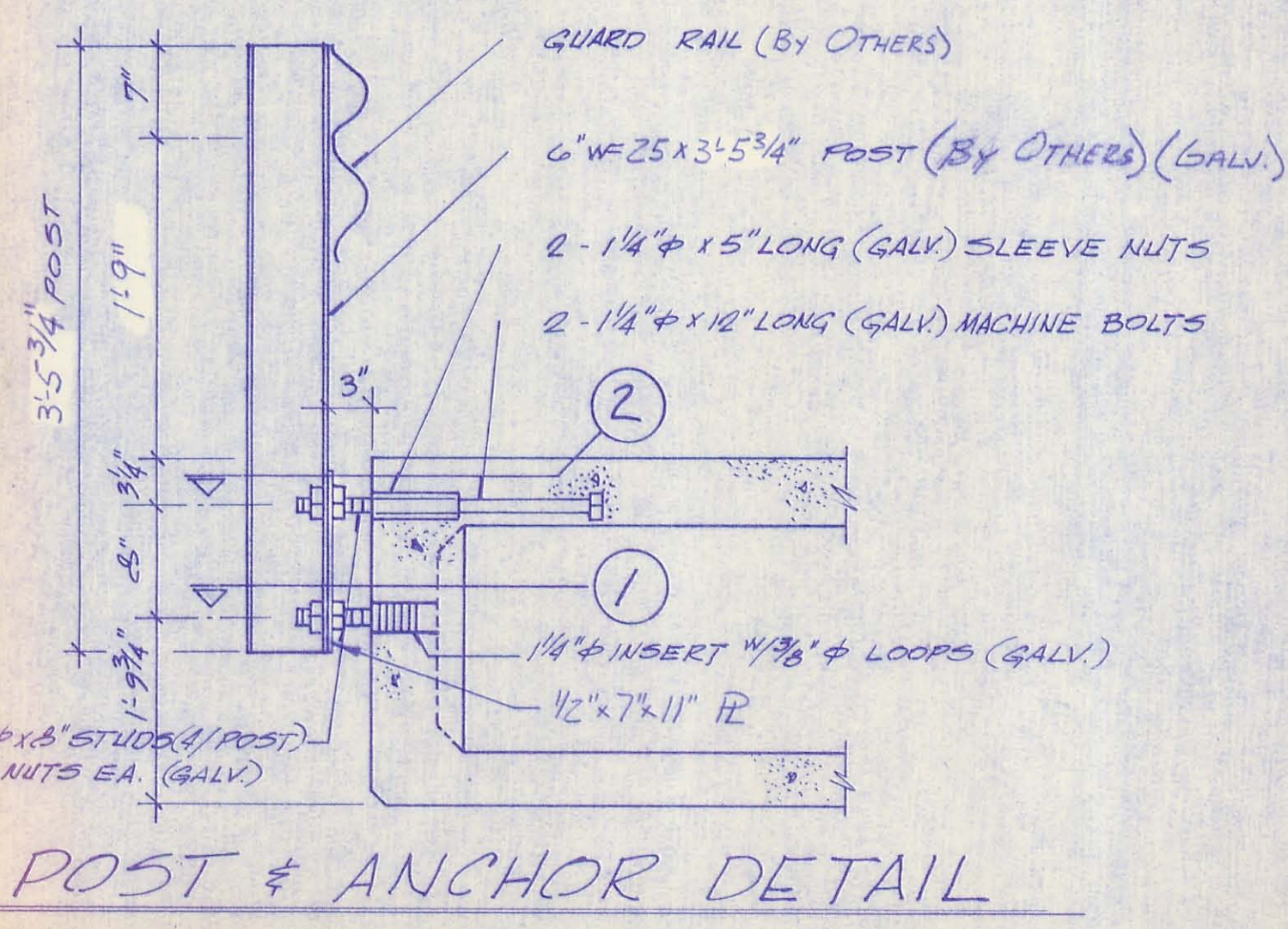
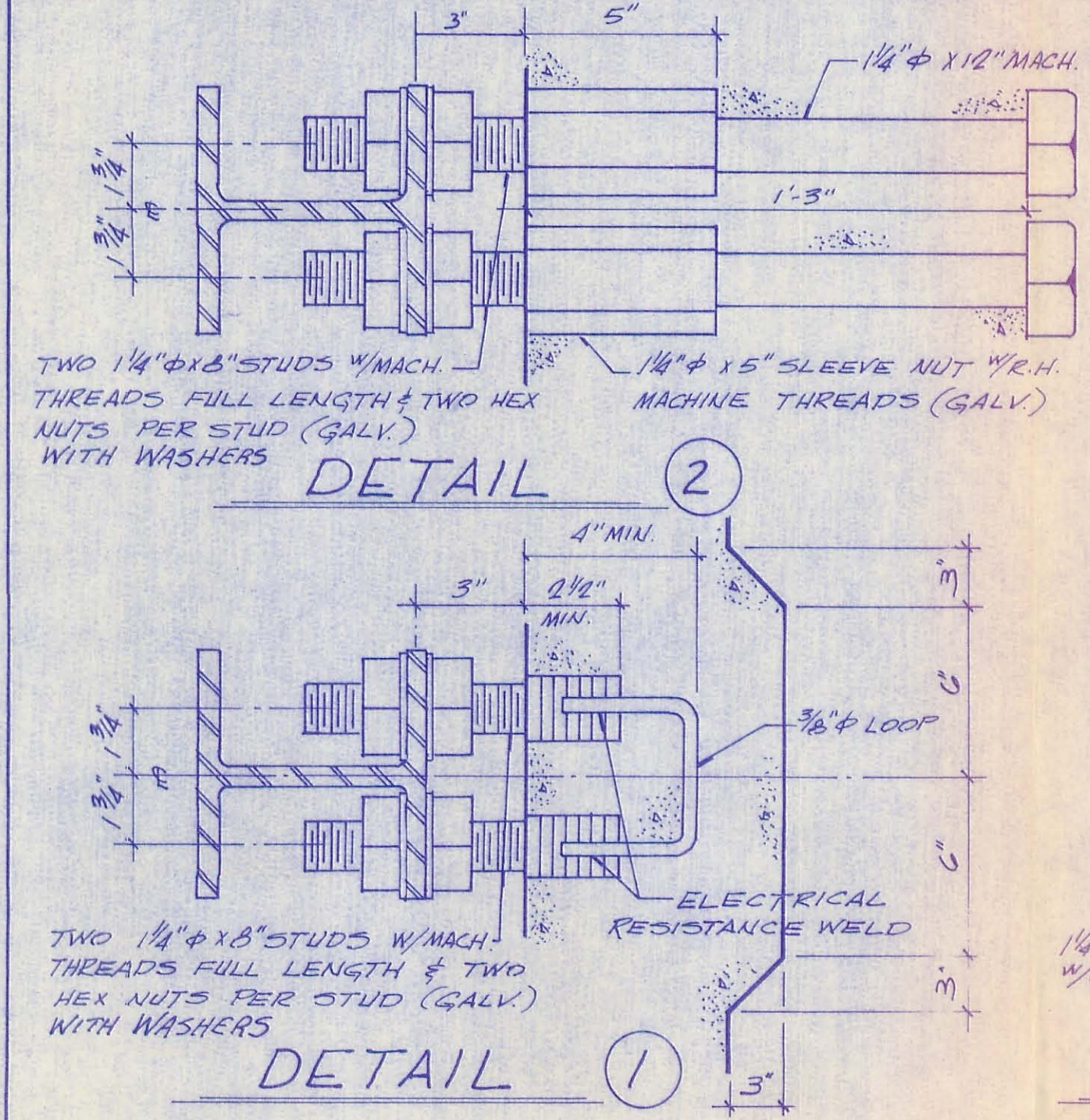
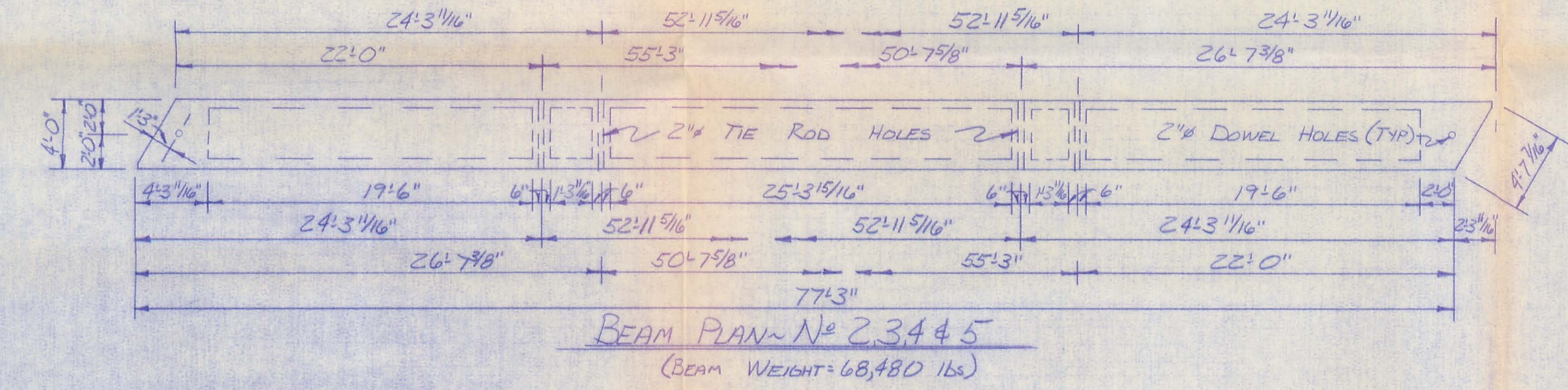
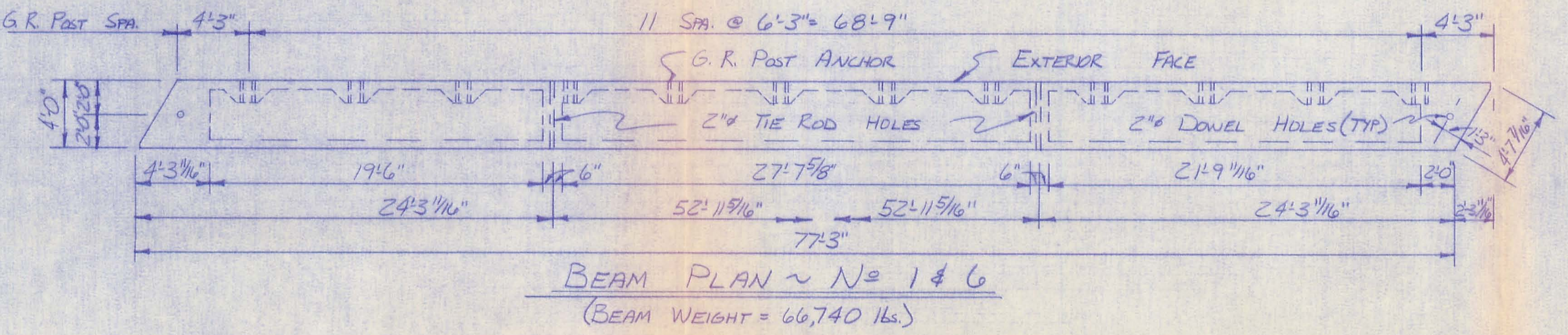
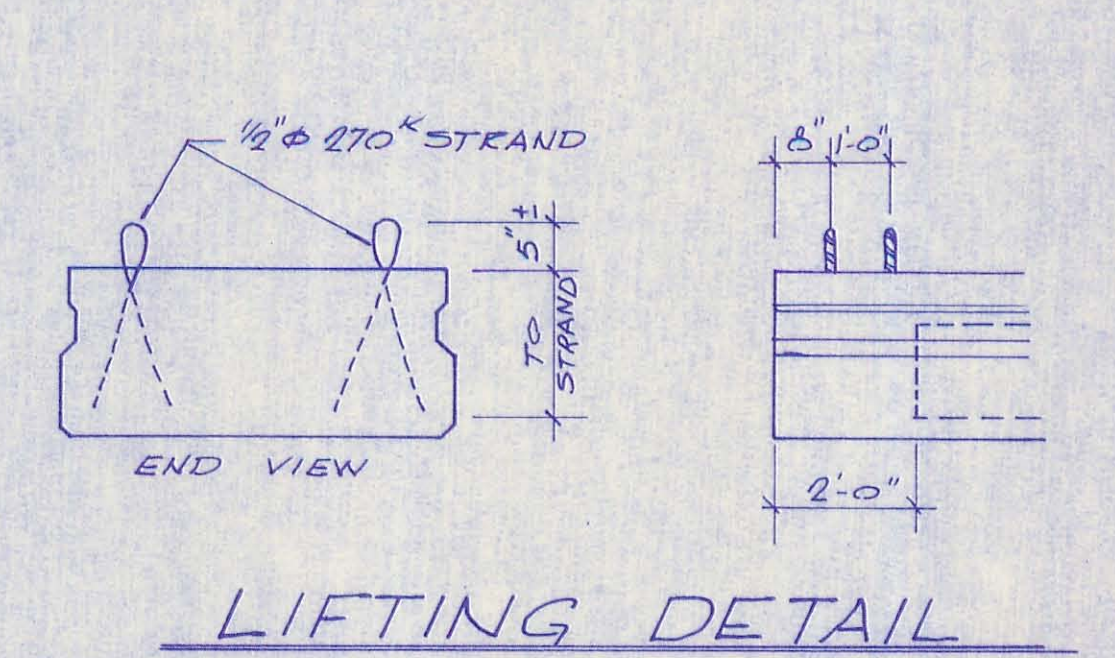
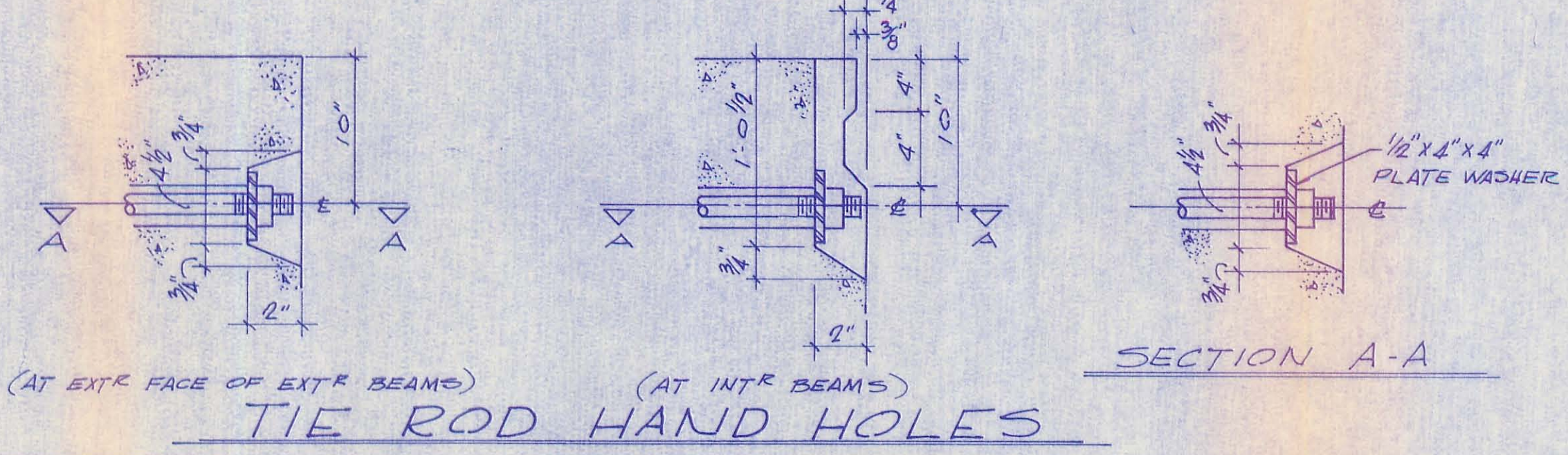
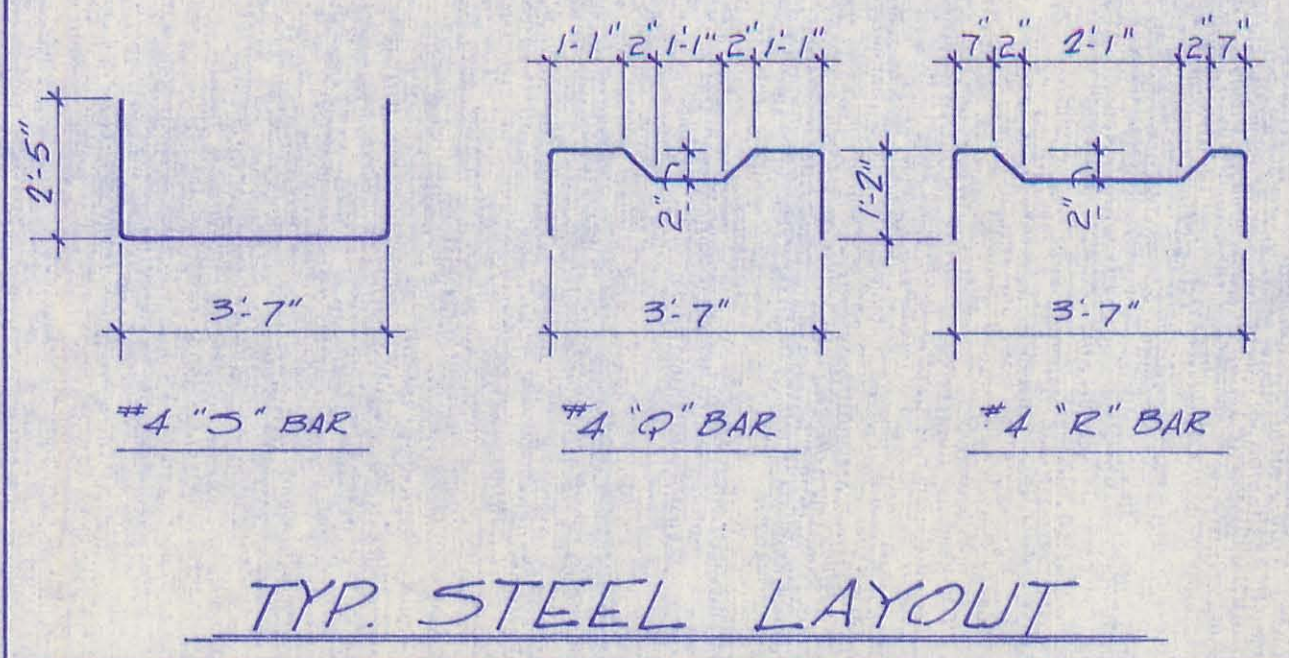
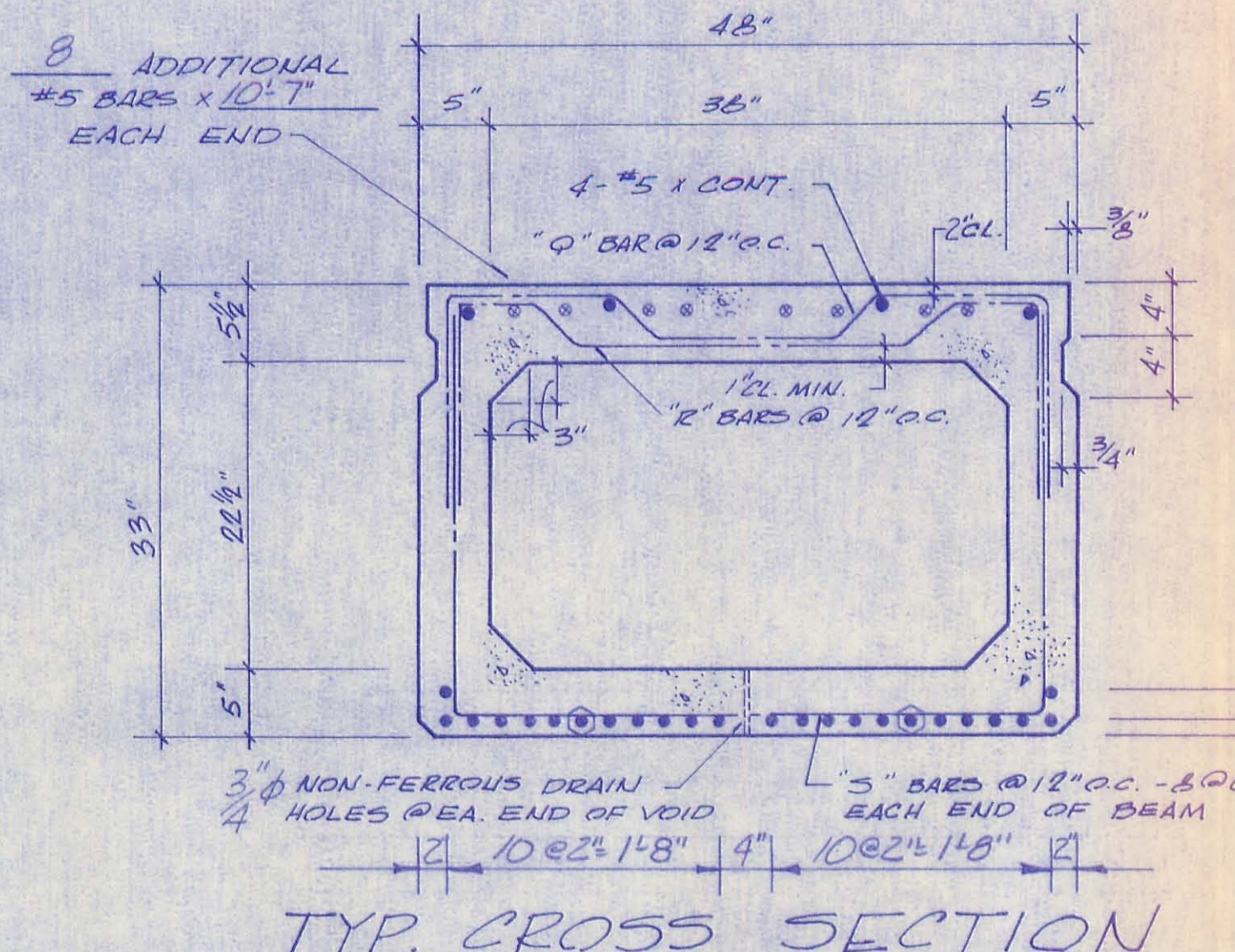


ASPHALT THICKNESS DIAGRAM

Shear keys shall be mortared on a finished plane between the top edge of the adjacent beams where vertical offset within tolerance occurs.

SHEAR KEY DETAIL





- NOTES:**
1. CONC. STR. AT TIME OF PRESTRESSING = 4000 P.S.I. @ 28 DAYS = 5500 P.S.I.
 2. DETENSION STRAND SYMMETRICALLY ABOUT CENTER LINE
 3. WATERPROOF BEAM ENDS
 4. OMIT KEYWAY ON EXTR FACE OF EXTR BEAMS
 5. LOADING = 45-20-44
 6. BEAM WEIGHT = SEE BEAM PLANS
 7. TOP SURFACE OF BEAMS GIVEN A FLAT FLOAT FINISH.
- CHANGE NOTES:** (PER NOTE ON QDDT STD. DWG. P.S.B.D. - 1-81 SHIT 2 OF 4.)
1. 6/16" KEYWAY TO 4/4" KEYWAY
 2. TIE ROD HAND HOLE FROM 1'-2" TO 10"
 3. 3" Ø TIE ROD HOLE TO 2" Ø TIE ROD HOLE

REVISIONS			Br. No. 131-072 Logan Co., Ohio	
NO.	DATE	BY	Contractor - Logan Co. Forces	
1.			SCALE	NONE
2.			DATE	9-7-83
3.			DRAWN BY	B.A.
4.			CHECKED BY	J.R.H.

PRESTRESS SERVICES, INC.	
Decatur	Indiana
JOB NO.	3044
DRAWING NO.	SH. 1 OF 1

P.C. # 9264