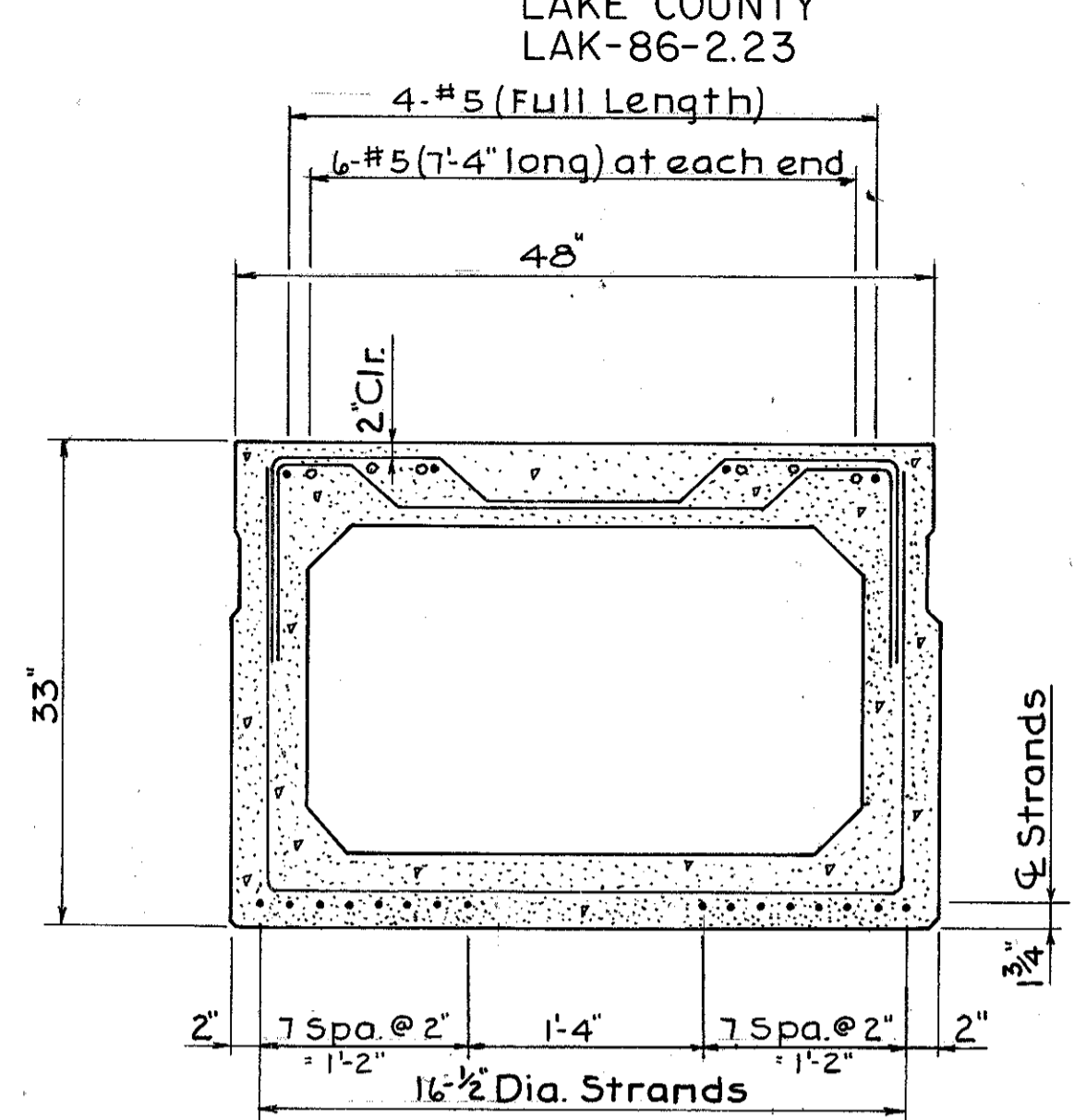
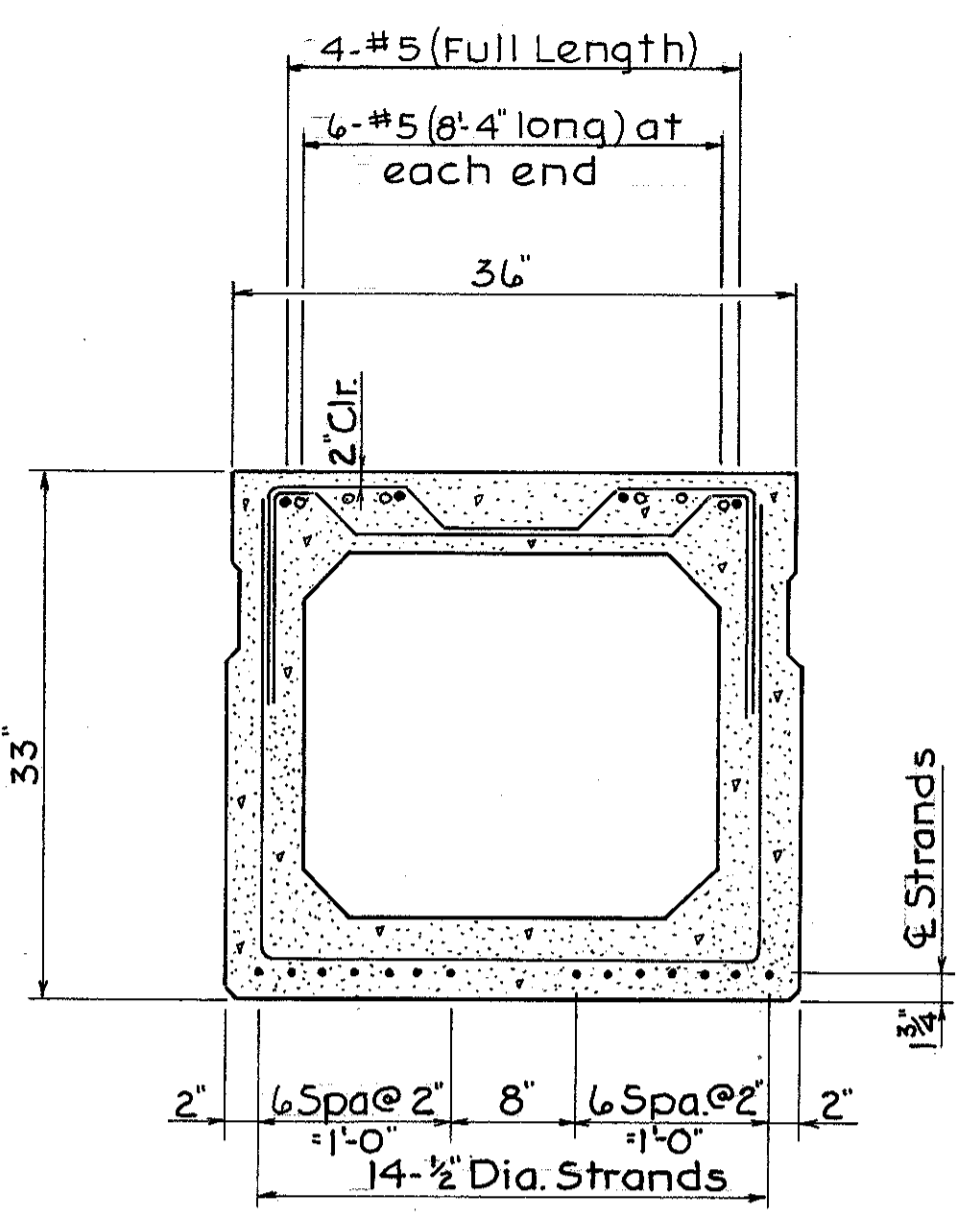
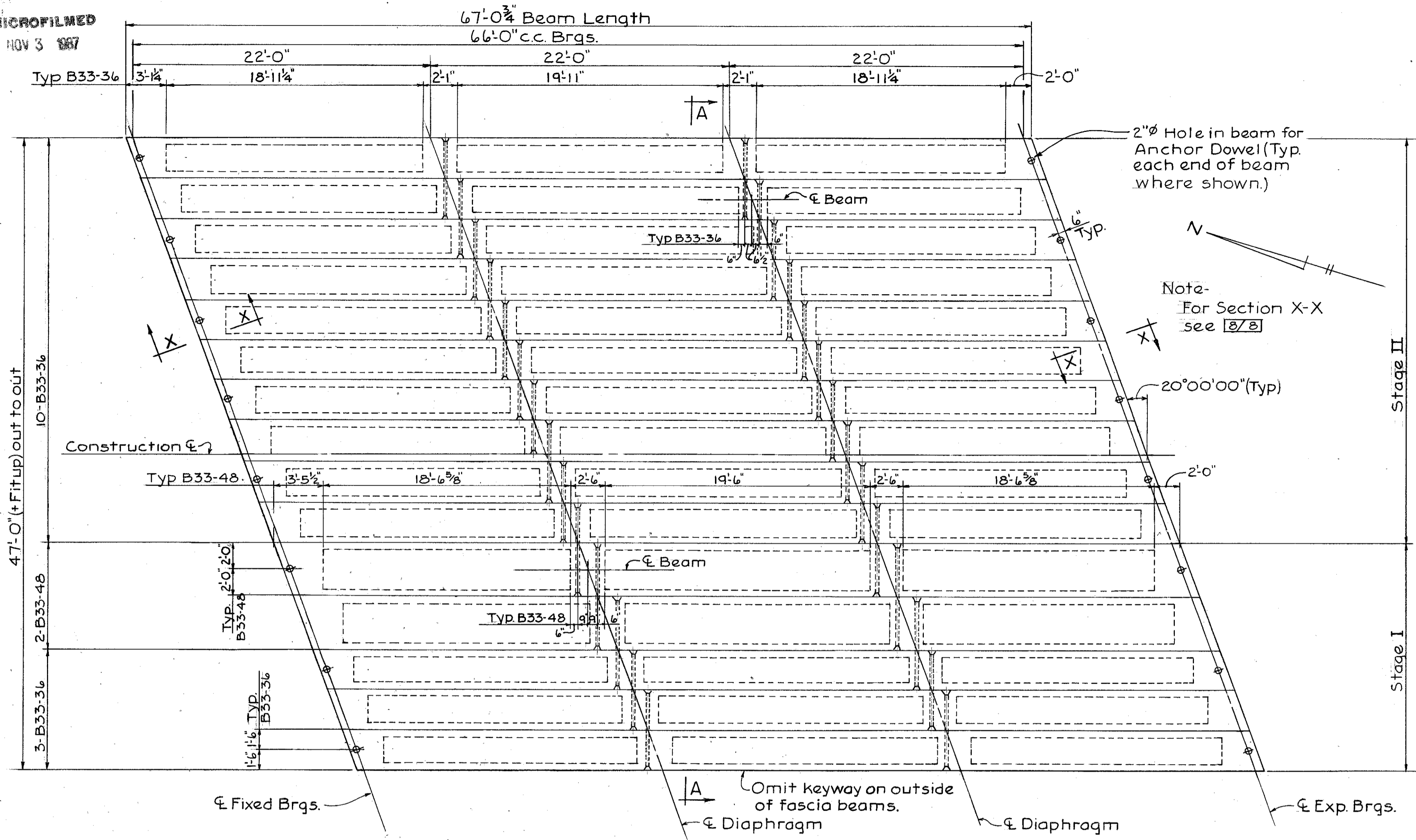


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FHWA REGION	STATE	PROJECT	
5	OHIO		

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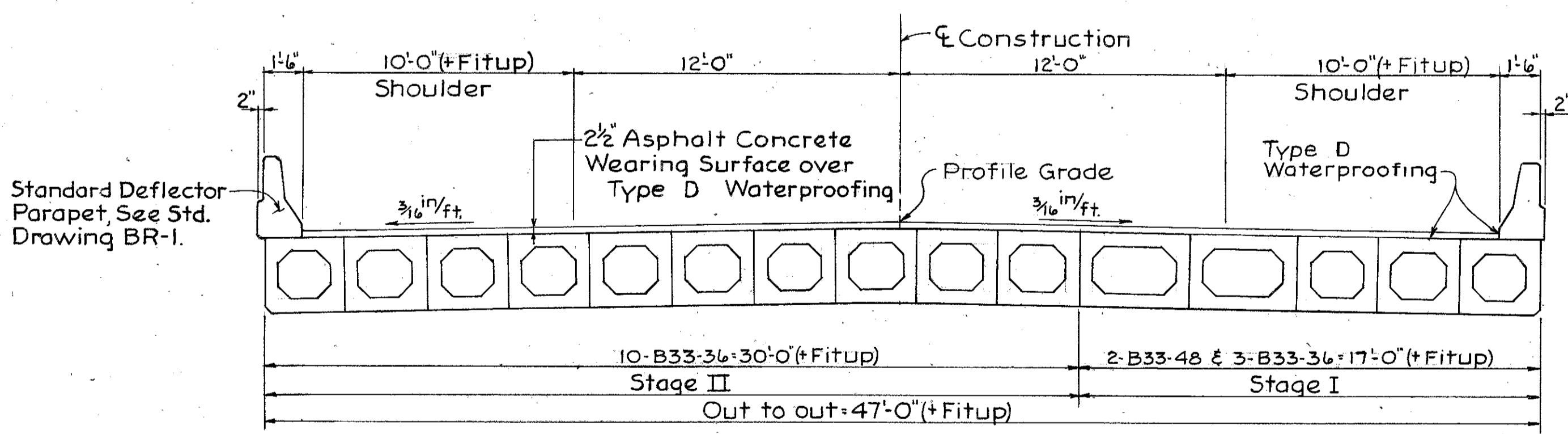
LAKE COUNTY
LAK-86-2.23



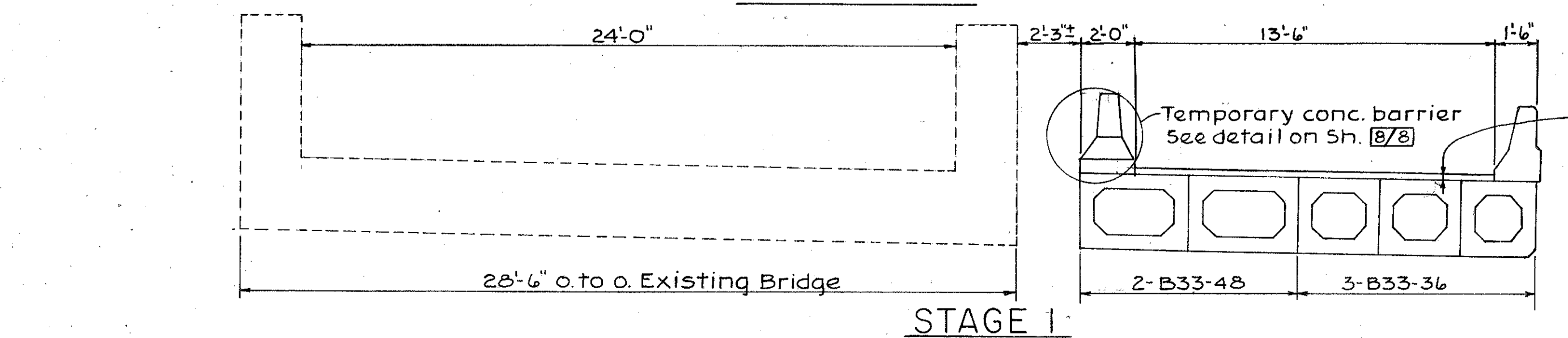
DECK PLAN

PRESTRESSED CONCRETE BOX BEAMS

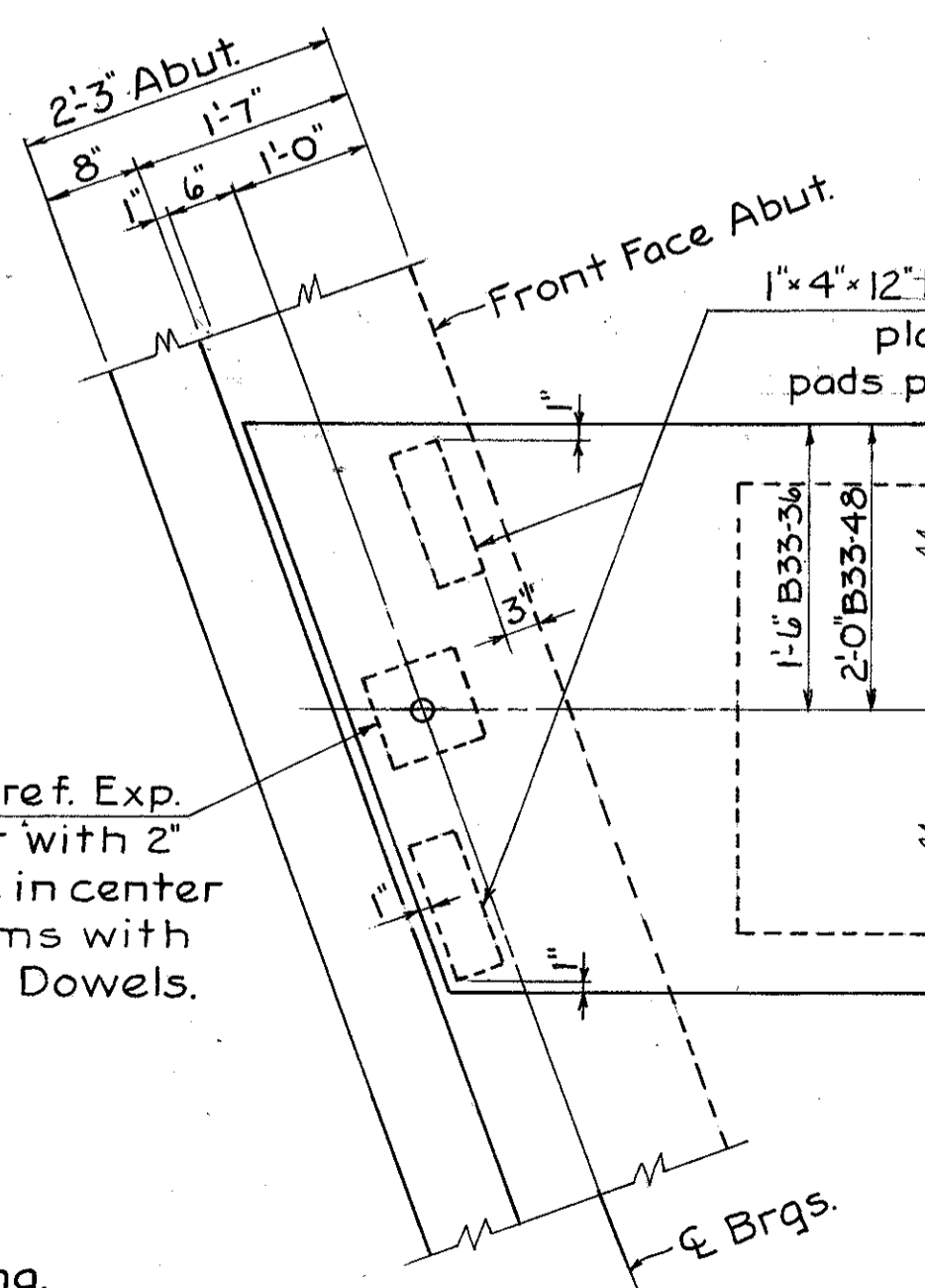
- NOTES-
1. CONCRETE STRESSES
Min. concrete strength at 28 days, $f'_c = 5500$ p.s.i.
Min. concrete strength at time of initial prestress, $f'_{ci} = 4000$ p.s.i.
 2. PRESTRESSING STRANDS
ASTM A416, Grade 270, 1/2" Diameter, seven wire, uncoated, stress-relieved strand, $A_s = 0.153$ sq.in., $F_s = 270,000$ p.s.i.
Initial tension: 28,900 lbs. per strand.
Tension at release: 26,000 lbs. per strand (assumed).
 3. See Standard Drawing P5BD-1-B1 for additional beam details and notes.
 4. The fabricator's shop drawings shall show complete details of the reinforcing steel.
 5. CAMBER
Calculated camber at time of paving, including allowance for camber growth due to creep is 5/8".
Calculated deflection due to weight of surface course and deflector parapets is 1/4".
Net final camber of beams equals required camber. No variation in thickness of 403 leveling course is required.



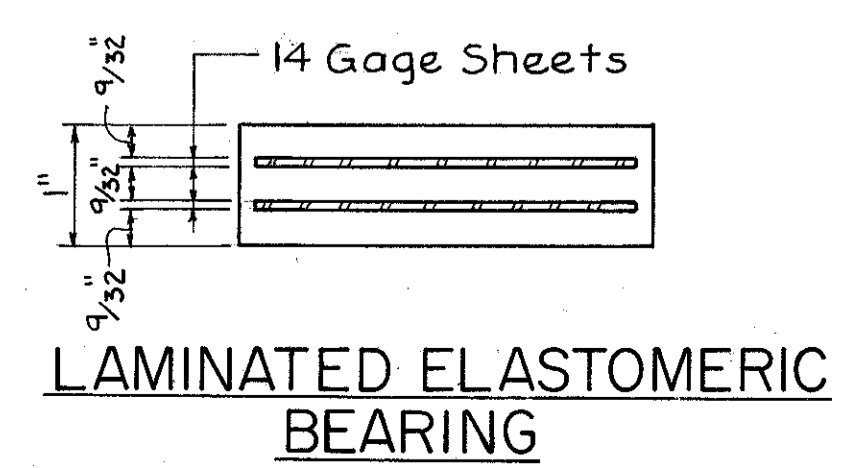
SECTION A-A



STAGE I



BEARING PAD LAYOUT



LAMINATED ELASTOMERIC BEARING

CAPITOL ENGINEERING ASSOCIATES
CONSULTING CIVIL ENGINEERS
PAINESVILLE, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE NO. LAK-86-0229
OVER BIG CREEK

LAKE COUNTY STA 9 + 72.88 TO
STA 10 + 40.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAP	DPR		NE	RJM	11/24/82	