

PROJECT NO. 183 | 334 TENNESSEE 1-240 - 1 (17) 13 1959

1. THE ENTIRE BRIDGE IS ON A HORIZONTAL, CIRCULAR CURVE. THE CURB LINES, EDGES OF BRIDGE, AND EDGES OF MEDIAN ARE CONCENTRIC TO THE 5° HORIZONTAL CIR-CULAR CURVE OF THE B OF E.B. POPLAR (RAD=1145.916') 2. THE OFFSET OF THE SPIRAL OF RAMP 15B WITH RE-SPECT TO THE EDGE OF THE 2'-O" CARRY-THROUGH AT THE N.W. CORNER OF THE BRIDGE IS NEGLIGIBLE. 3. ALL PIERS AND ABUTMENTS ARE PARALLEL TO THE Q

4. THE PRESTRESSED BEAMS IN EACH SPAN ARE PARAL-LEL TO EACH OTHER AND TO THE CHORD JOINING THE POINTS OF INTERSECTION OF THE & OF E.B. POPLAR WITH THE & OF ADJACENT PIERS OF THE & BRG. OF

SUGGESTED LAYOUT PROCEDURE

I. LOCATE STA. 554+30.00 ON & 1-240 AND ESTABLISH THE REFERENCE LINE A A. THIS LINE IS PERPENDI-

2. LOCATE THE CENTERS OF COLUMNS FOR PIERS B,C AND D BY THE DISTANCES TO THE & OF 1-240 SHOWN ON THE GEOMETRICS PLAN AND THE OFFSETS FROM THE REFERENCE LINE SHOWN IN THE TABLE. SEE THE PIER SHEETS (BRIDGE DWGS. 4 & 5) FOR FURTHER DETAILS.

3. LOCATE ABUTMENTS A AND E BY THE DISTANCES SHOWN ON THE GEOMETRICS PLAN FROM THE & OF PIERS B AND D TO THE C BRG. OF ABUTMENTS A AND E, RESPECTIVELY, AND THE OFFSETS AT THESE LINES FROM THE REFERENCE LINE A A TO THE B OF E.B. POPLAR. AS SHOWN IN THE TABLE. SEE THE ABUTMENT SHEET (BRIDGE DWG. 3) FOR FURTHER DETAILS.

4. CHECK CHORD DISTANCES ALONG & OF E.B. POPLAR BETWEEN CONSECUTIVE & OF PIERS AND ABUTMENTS WITH THE CORRESPONDING VALUES SHOWN ON THE BRIDGE

5. THE ANCHOR BOLTS FOR THE PRESTRESSED BEAMS OF SPANS I AND 4 AND FOR THE BEARING PLATES OF THE PRESTRESSED BEAMS OF SPANS 2 AND 3 SHALL BE SET IN ACCORDANCE WITH THE DIMENSIONS SHOWN ON BRIDGE DWGS. 3,4,5, AND IO. IT IS PARTICULARLY IMPORTANT THAT THE CENTER TO CENTER SPAN DIMENSIONS ARE CHECKED BY FIELD MEASUREMENT PRIOR TO GROUTING IN THE ANCHOR

6. THE ROADWAY SLAB MAY BE BUILT INITIALLY WITH ITS OUTSIDE EDGES PARALLEL, IN EACH SPAN, TO THE CORRESPONDING CHORD LINE, BUT THE CURBS AND THE MOUNTABLE MEDIAN SHALL BE MADE TO FOLLOW CIRCULAR CURVES CONCENTRIC WITH THE B OF E.B. POPLAR. CURBS AND MEDIANS MAY BE CAST IN A SECOND CASTING OPERATION. SEE BRIDGE DWG. 6 FOR FURTHER DETAILS. 7. CURB LINES AND SOUTH EDGE OF MEDIAN SHALL BE LOCATED BY USING THE CHORD OFFSETS GIVEN IN THE GEOMETRICS PLAN. ALL THESE OFFSETS ARE MEASURED FROM THE CHORD LINES ALONG LINES PARALLEL TO THE PIERS. THESE LINES HAVE BEEN ESTABLISHED AT 10'-0" INTERVALS, MEASURED PERPENDICULARLY TO THE PIERS AND STARTING AT THE C OF PIER C. THE LOCATION OF CURB AND MEDIAN LINES, PRIOR TO THE CASTING OF THE ROADWAY SLAB IS NECESSARY FOR ACCURATE PLACING OF ANCHOR BARS FOR THE MEDIAN AND THE SAFETY CURBS. 8. ELEVATIONS OF THE ROADWAY SURFACE ARE GIVEN IN PARENTHESES IN THE GEOMETRICS PLAN AT THE CURB LINES AND AT THE CHORD LINE.

9. THE OUTSIDE EDGES OF THE BRIDGE SHALL BE LOCAT-ED BY USING THE CURB WIDTHS GIVEN IN THE GEOMETRI-CS PLAN. THE LOCATION OF THE CURB LINES SHALL BE CHECKED BY RUNNING THE 5° CIRCULAR CURVE OF B OF E.B. POPLAR AND MEASURING CONSTANT RADIAL DISTANCES FROM THE \$ TO THE CURB LINES.

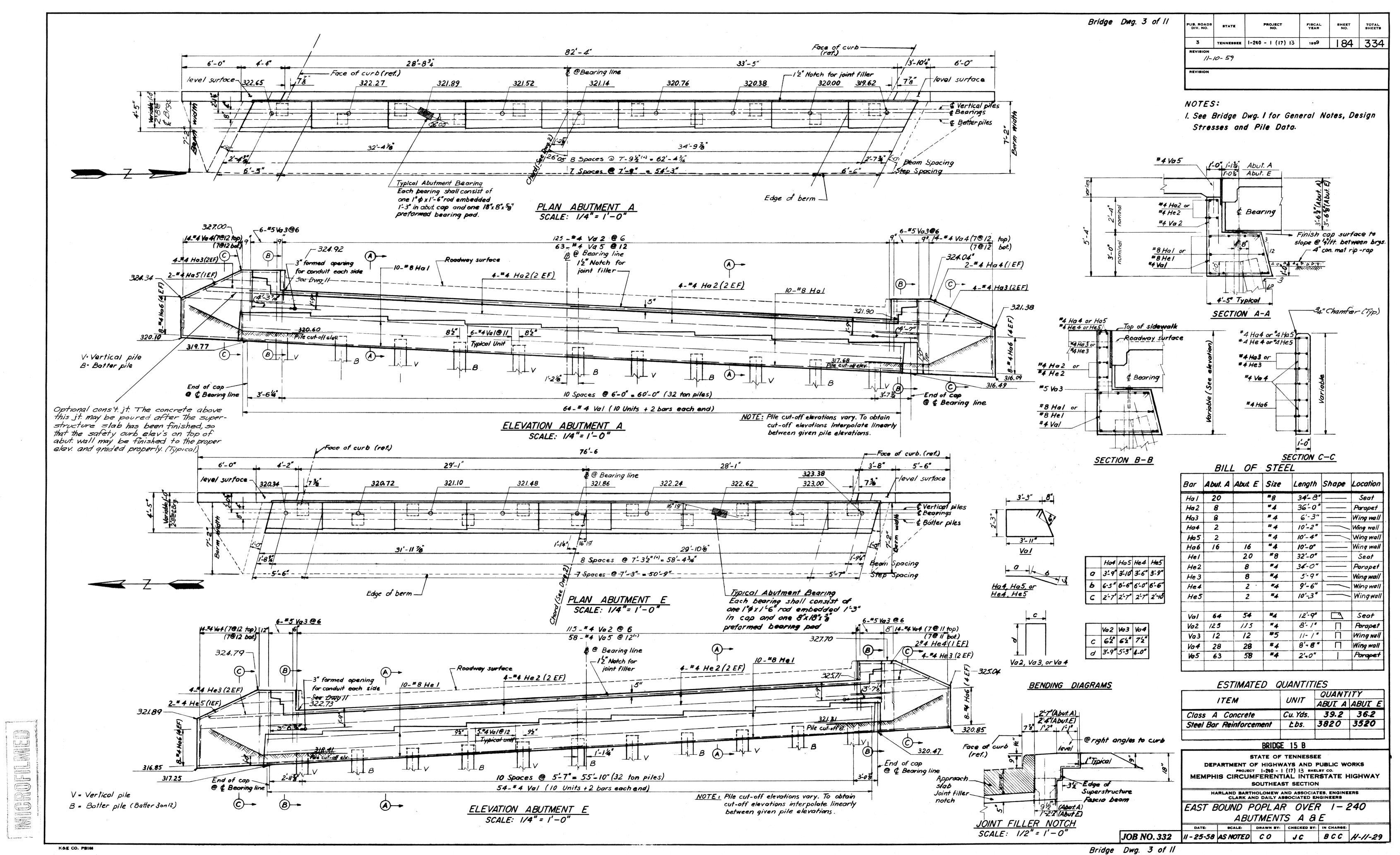
BRIDGE 15B

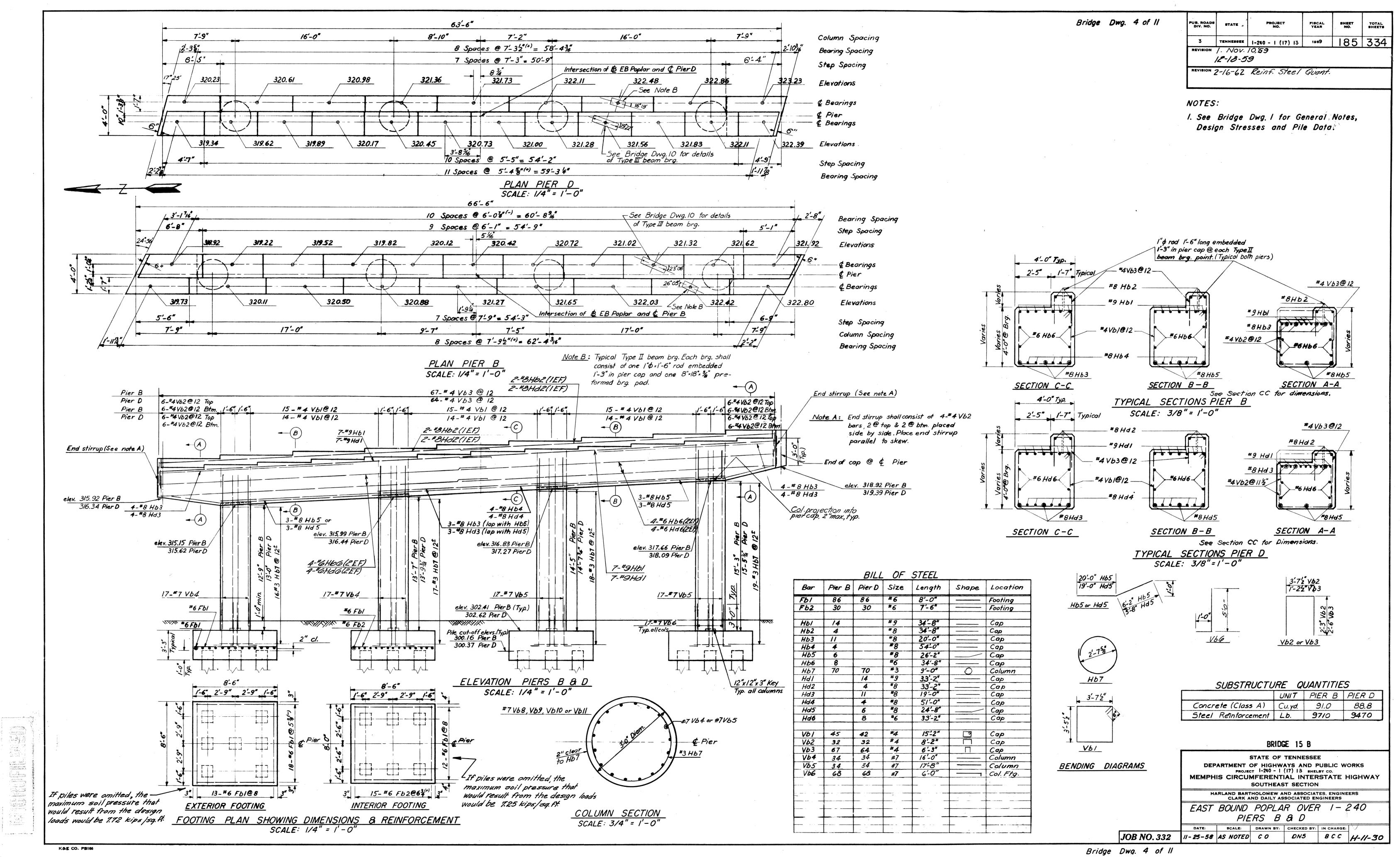
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS PROJECT 1-240 - 1 (17) 13 SHELBY CO. MEMPHIS CIRCUMFERENTIAL INTERSTATE HIGHWAY SOUTHEAST SECTION

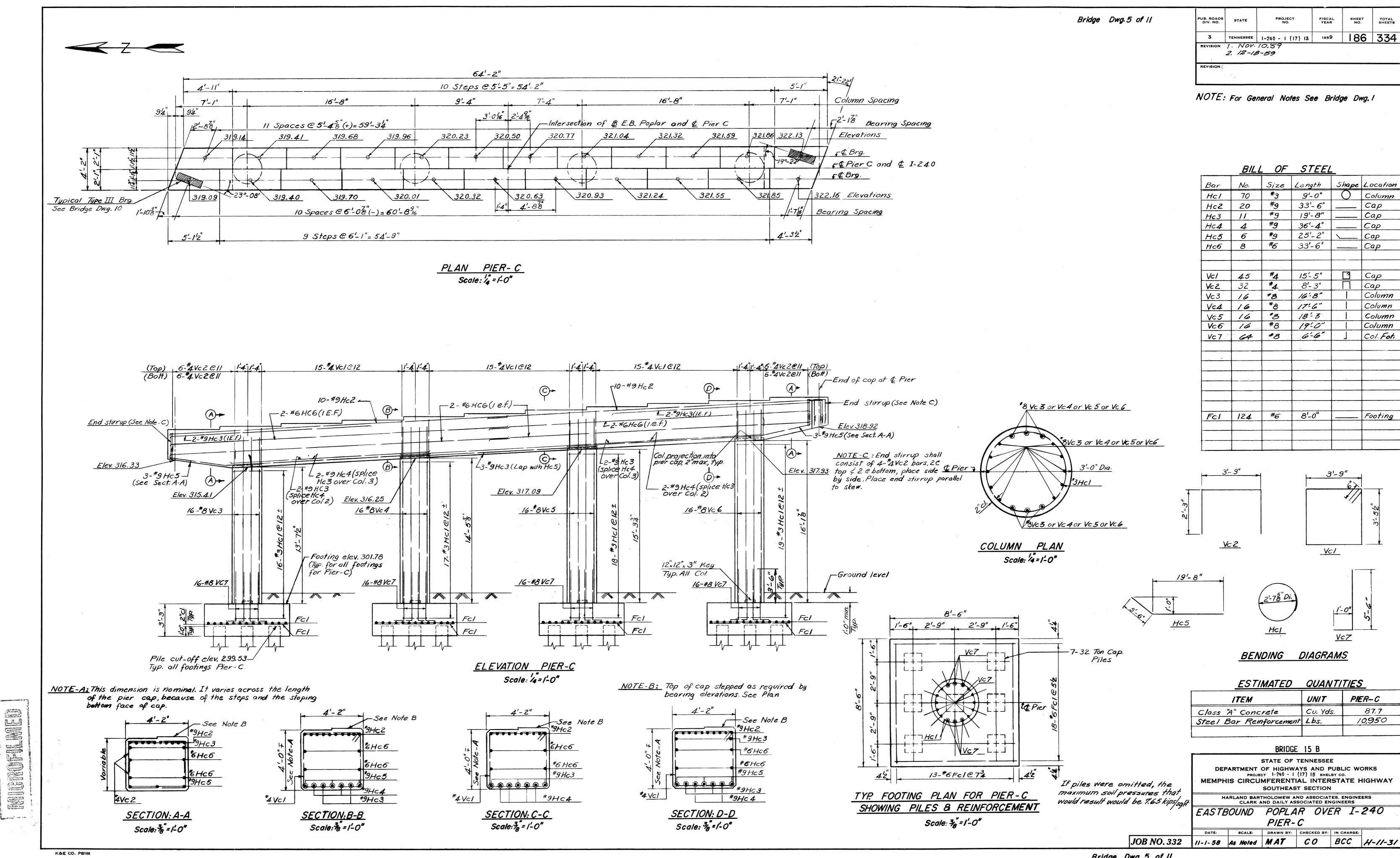
HARLAND BARTHOLOMEW AND ASSOCIATES, ENGINEERS
CLARK AND DAILY ASSOCIATED ENGINEERS

E.B. POPLAR OVER I-240 BRIDGE GEOMETRY DRAWN BY: CHECKED BY: IN CHARGE:

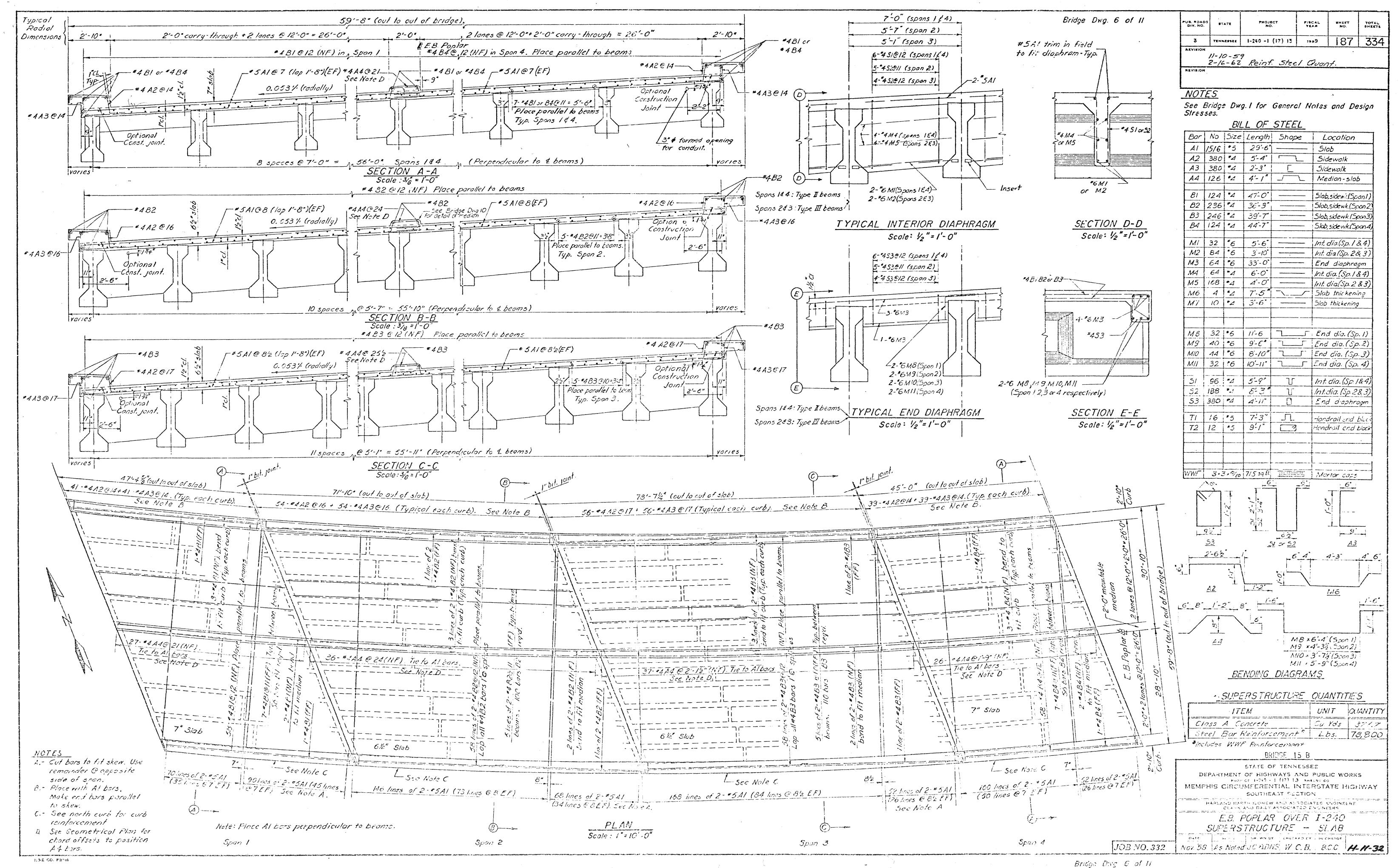
J.C. B.C.C. H-11-28

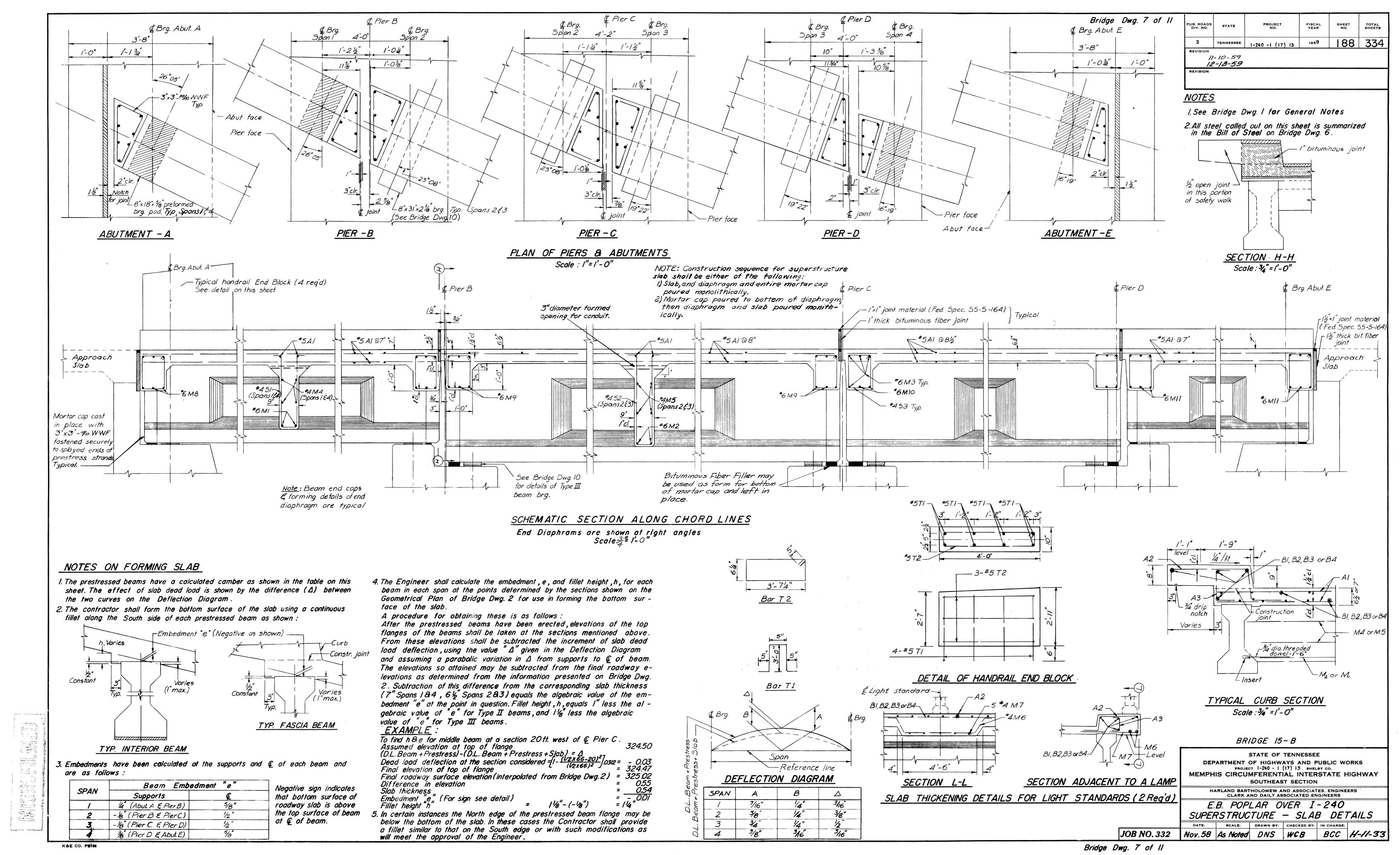


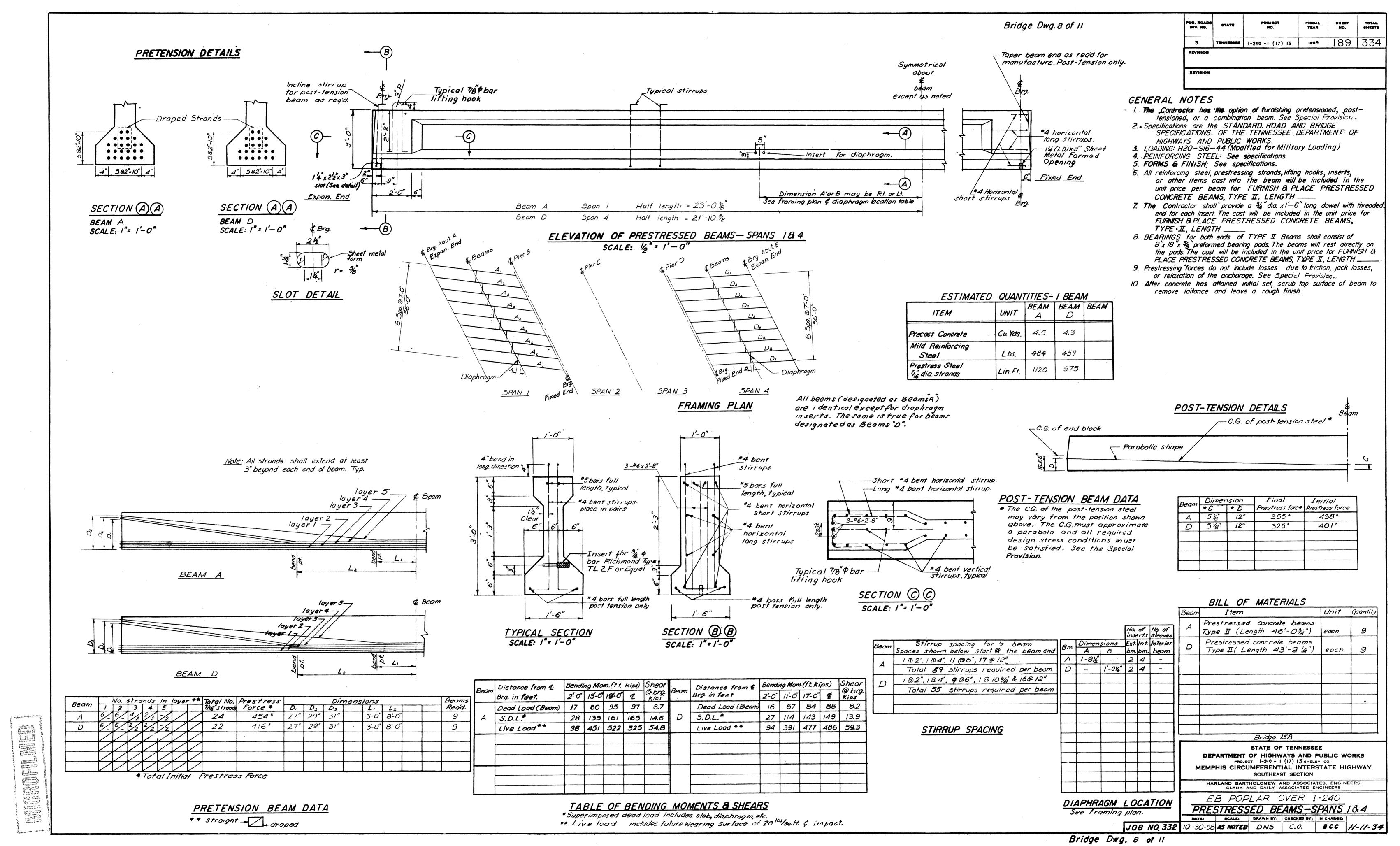


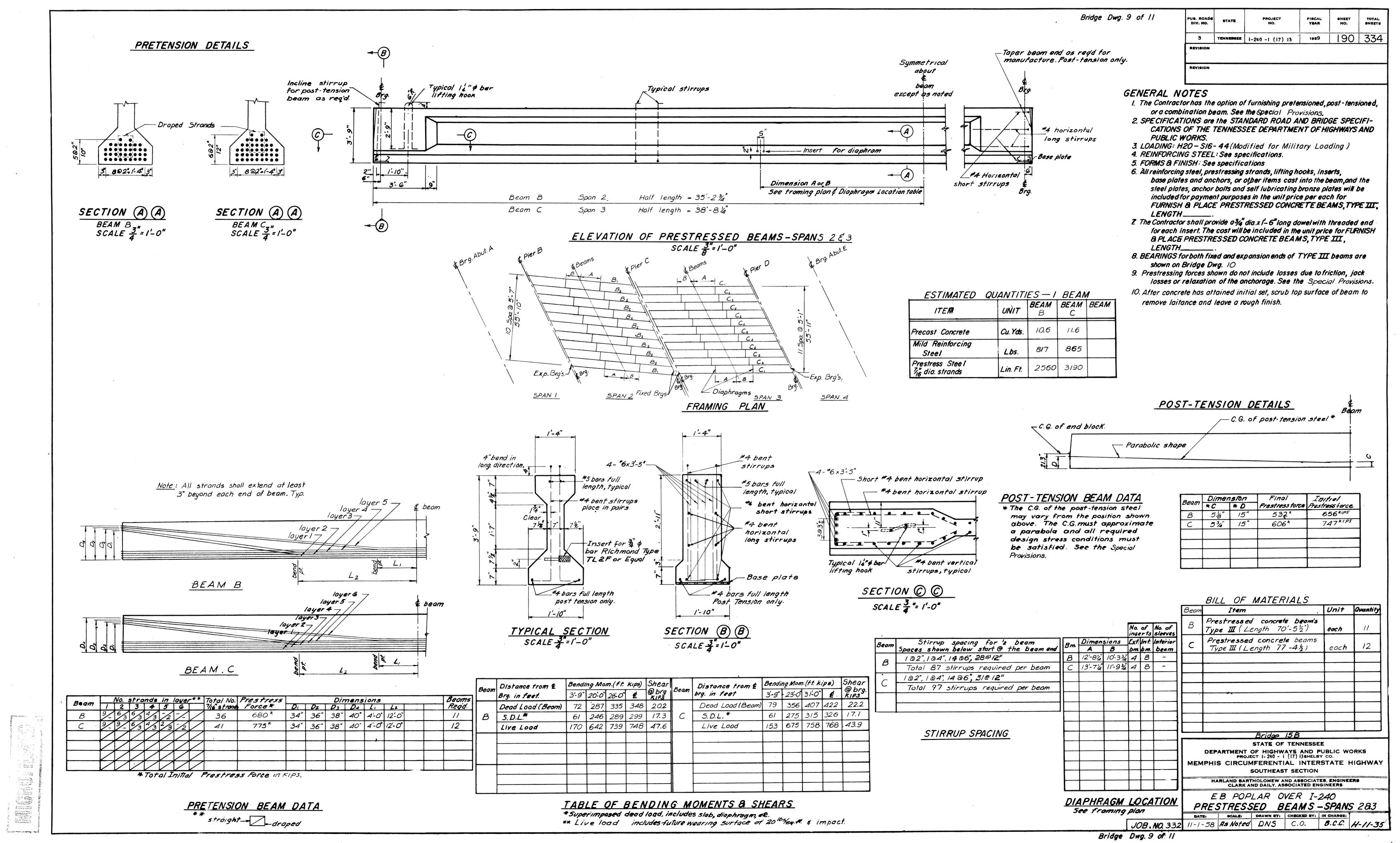


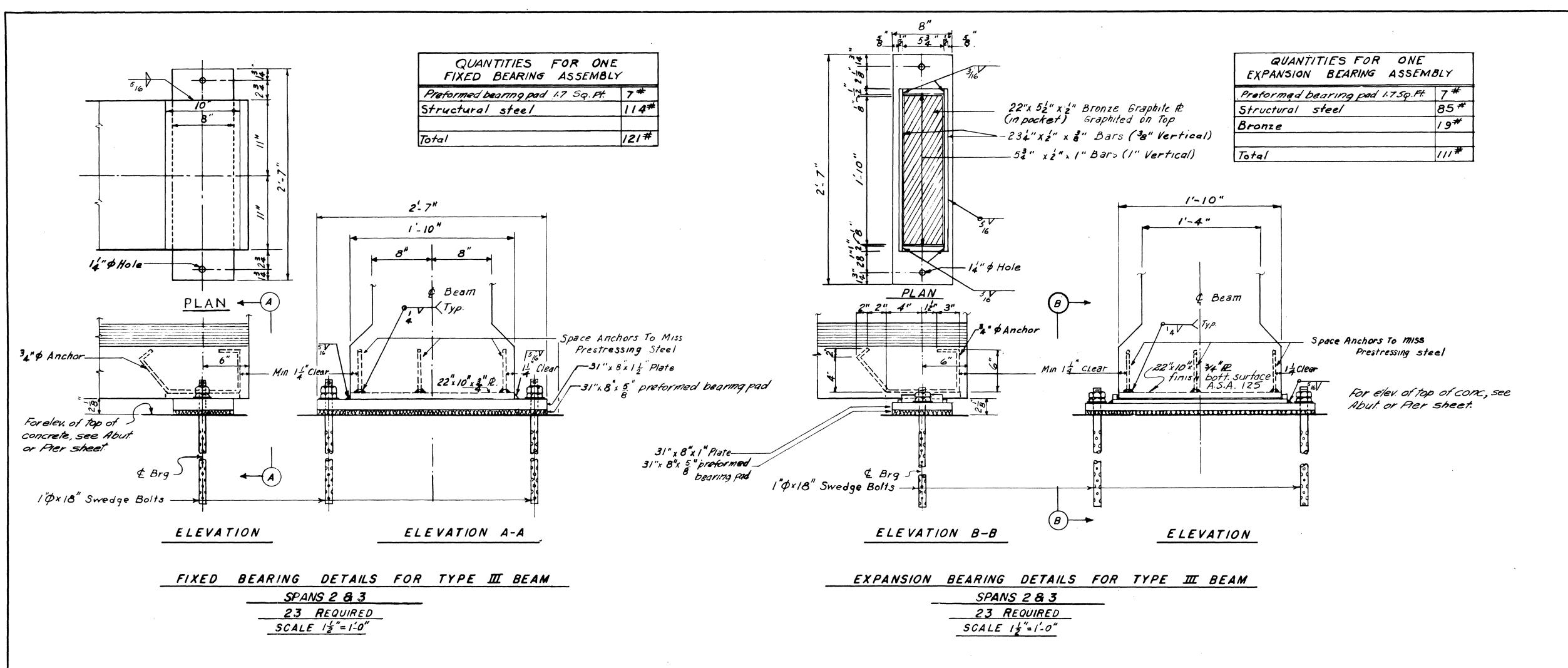
Bridge Dwg. 5 of II











Bridge Dwg. 10 of 11 PUB. ROADS DIV. NO. TENNESSEE 1-240 -1 (17) 13 1989 191 334 REVISION 1-9-59 11-10-59 REVISION

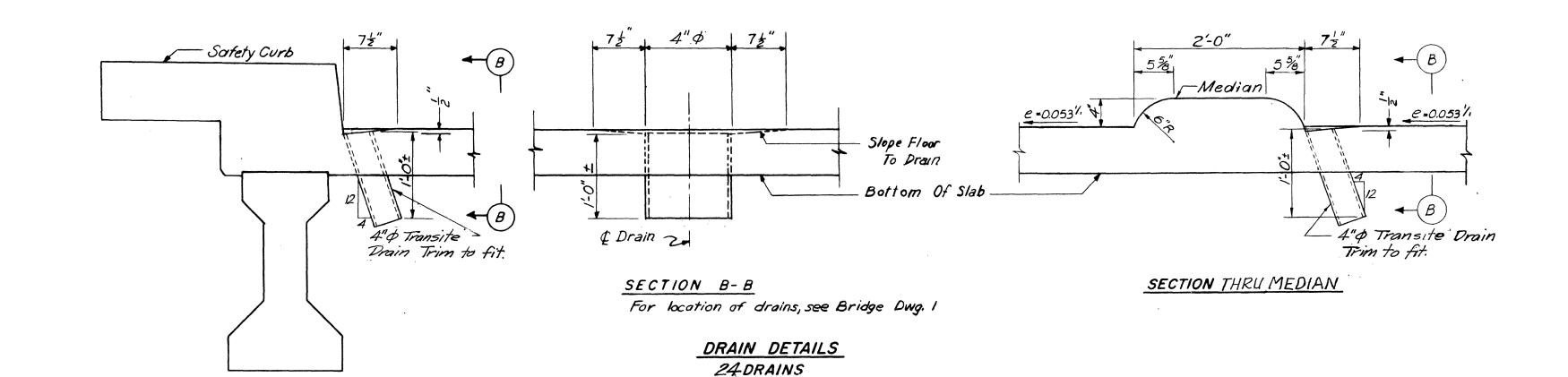
NOTES

BEARINGS

- / Bearing for TYPE II prestressed beams shall be 8 x 18 x 5/8" preformed bearing pads (36 reg'd this structure). These bearings will be considered incidental to the contract price bid for FURNISH & PLACE PRESTRESSED CONCRETE BEAMS, TYPE II, LENGTH_____
- 2. Self lubricating bronze plates, structural steel for bearings & anchors are incidental to the contract bid price for FURNISH & PLACE PRESTRESSED CONCRETE BEAM TYPE III LENGTH Weights shown are computed on the following basis: STEEL at 490 lbs/cu.ft.
 - BRONZE at 562 168/cu ft. PREFORMED BEARING PADS at 75 168/cu.ft.
- 3. Preformed bearing pads. See Special Provisions.

DRAINS

- I. See bridge layout for location of drains.
- 2. Transverse slab reinforcing steel shall be bent in the field to clear roadway drains as directed by the engineer.



SCALE I'= I'

ITEM -	UNIT	QUANTITY
* Structural steel (fixed bearing)	lbs	2622
*Structural steel (exp. bearing)	lbs	1955
4" Transite drains	each	24
* Self Lubricating Bronze	165.	421
* 5/8" Preformed Bearing Pads	5q.ft.	115.2
	7.7.	

* The following is a material breakdown by span PREFORMED BEARING PADS SPAN I 18.0 Sq.Ft. SPAN 2 37.9 Sq.Ft. SPAN 3 41.3 Sq.Ft. SPAN 4 18.0 Sq.Ft. SPAN 2 2189 Lbs. SPAN 3 2388 Lbs.

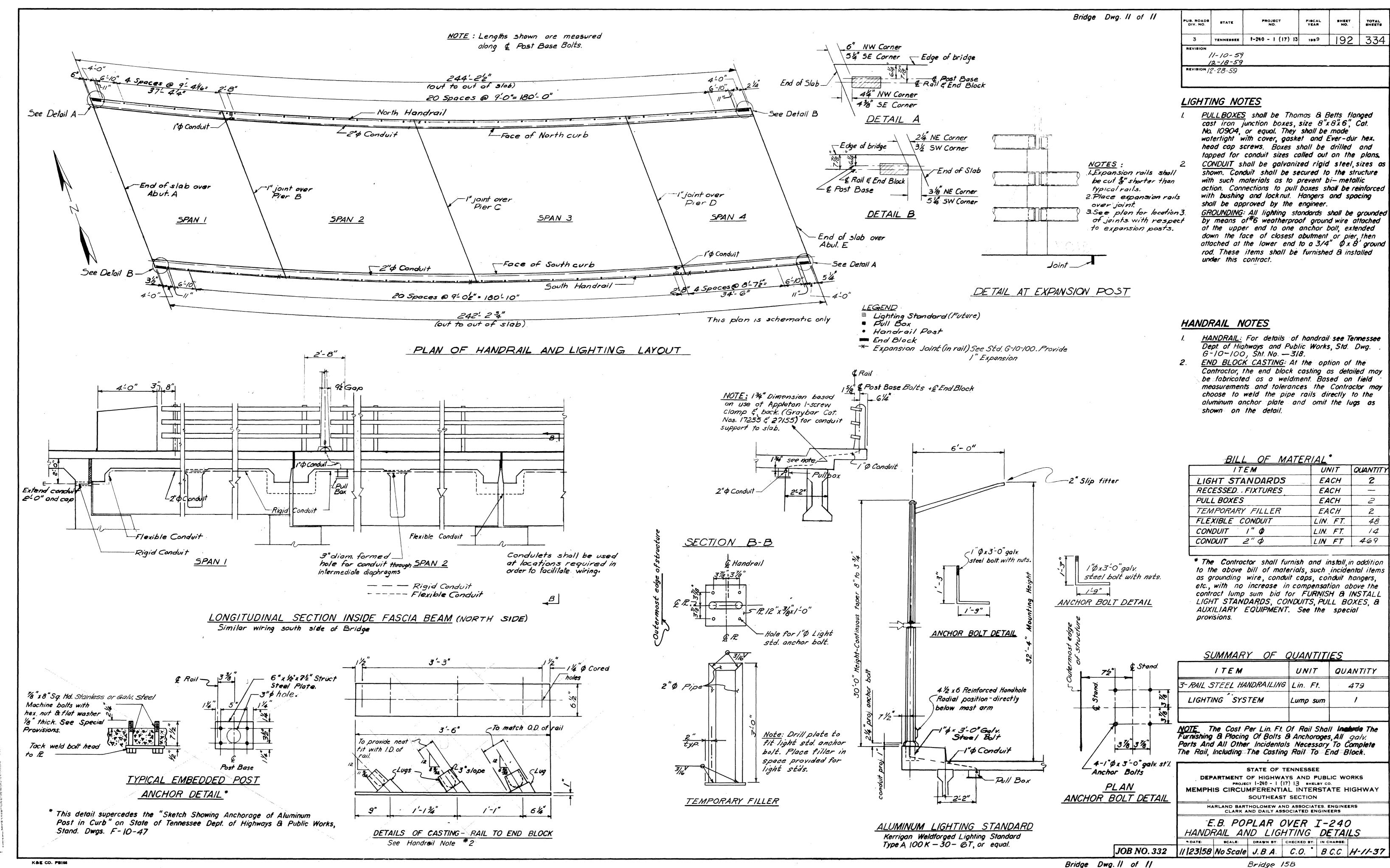
Bridge 15B STATE OF TENNESSEE DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS PROJECT 1-240-1 (17) 13 SHELBY CO. MEMPHIS CIRCUMFERENTIAL INTERSTATE HIGHWAY SOUTHEAST SECTION

HARLAND BARTHOLOMEW AND ASSOCIATES, ENGINEERS CLARK AND DAILY. ASSOCIATED ENGINEERS

E.B. POPLAR OVER 1-240 BEARINGS & MISCELLANEOUS DETAILS

SPAN 2 201 Lbs. SPAN 3 220 Lbs.

JOB NO. 332



ITEM	UNIT	QUANTITY
LIGHT STANDARDS	EACH	2
RECESSED. FIXTURES	EACH	
PULL BOXES	EACH	2
TEMPORARY FILLER	EACH	2
FLEXIBLE CONDUIT	LIN. FT.	48
CONDUIT I" Ø	LIN. FT.	14
CONDUIT 2" \$	LIN FT	469