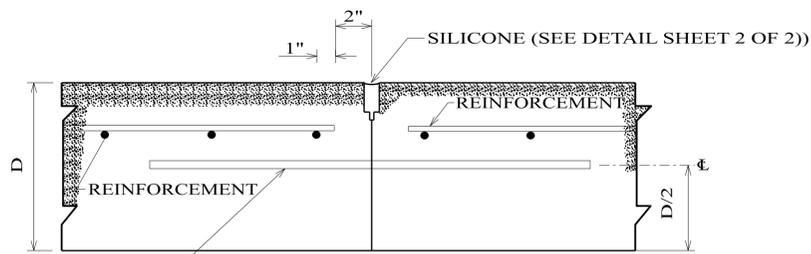


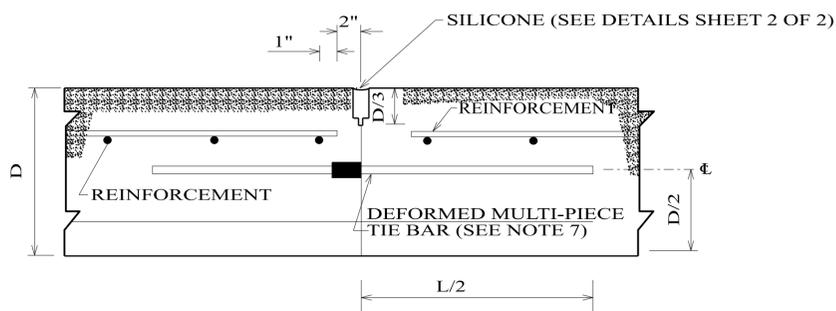
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

LONGITUDINAL JOINTS

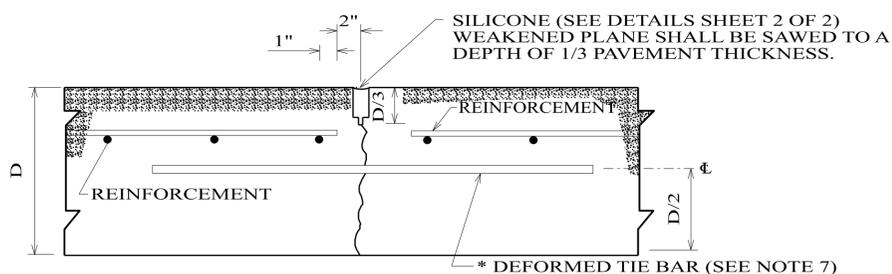
STANDARD PLAIN AND REINFORCED CONCRETE PAVEMENT



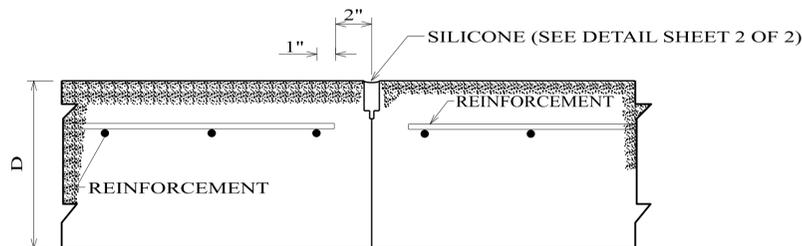
* DEFORMED TIE BAR OR SECTIONAL TIE BAR (NOTE 7)
THIS JOINT TO BE USED WHEN BOTH LANES ARE POURED SEPARATELY
BUTT WITH TIE BARS



MULTI-PIECE TIE BAR



THIS JOINT TO BE USED WHEN BOTH LANES ARE POURED SIMULTANEOUSLY
WEAKENED PLANE



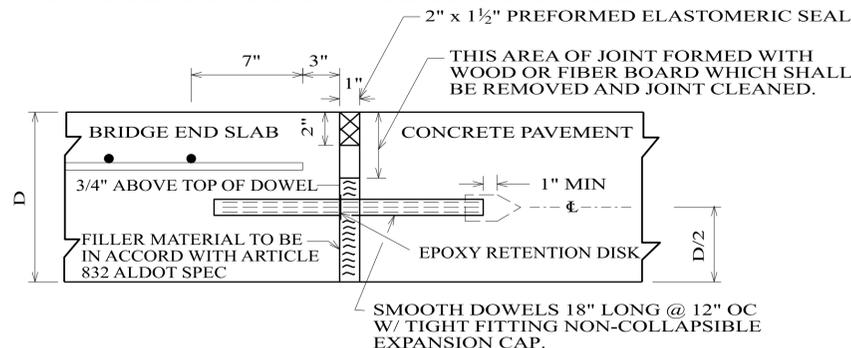
LONGITUDINAL JOINT W/O TIE BARS

TIE BAR ALIGNMENT TOLERANCE

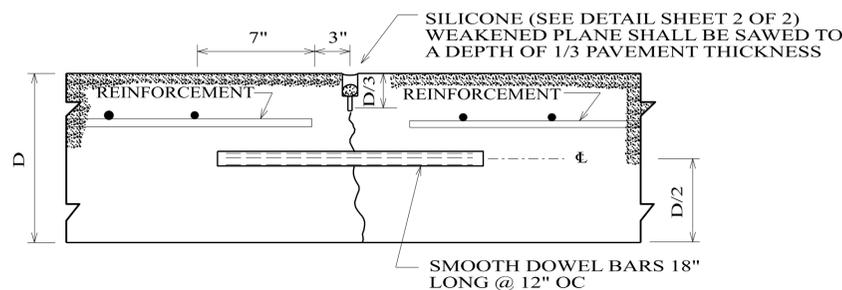
- 2" ALONG CENTER LINE LOGITUDINALLY
- 1" VERTICALLY ($D/2 \pm 1"$)
- $\frac{1}{2}"$ PER FOOT IN A VERTICAL OR HORIZONTAL AXIS

TRANSVERSE JOINTS

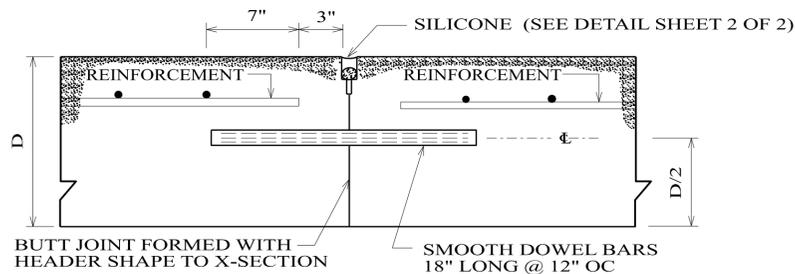
STANDARD PLAIN AND REINFORCED CONCRETE PAVEMENT



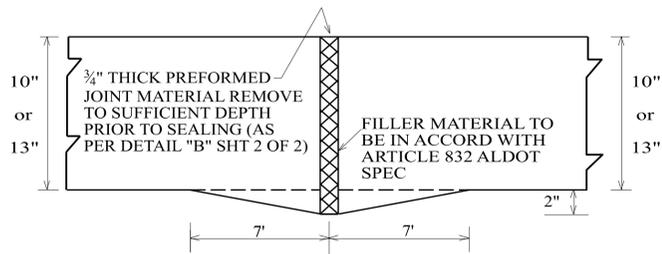
EXPANSION



CONTRACTION



CONSTRUCTION-BUTT

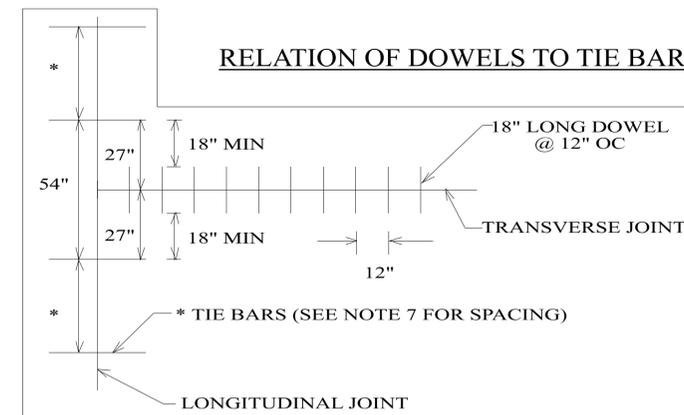


ISOLATION JOINT

NOTE ON DOWEL SIZE:

THE DIAMETER OF THE DOWELS IS 1 1/4" FOR PAVEMENT DEPTHS LESS THAN 10" AND 1 1/2" FOR PAVEMENT DEPTHS 10" THICK AND GREATER.

RELATION OF DOWELS TO TIE BARS



GENERAL NOTES

- FOR PLAIN CONCRETE PAVEMENT JOINTS DISREGARD REINFORCING DETAILS.
- ALL SEAL RESERVOIRS AND CONTRACTION JOINTS SHALL BE SAWED.
- FOR DETAIL OF DOWEL SUPPORT ASSEMBLY SEE APPROPRIATE SPECIAL DRAWING.
- SILICONE SEALANT SHALL BE TOOLED IMMEDIATELY AFTER APPLICATION.
- WHEN CONTRACTOR OPTIONS TO USE ENCAPSULATED ANCHOR, THE REQUIRED LENGTH OF TIE BARS AS SHOWN SHALL BE FULLY EMBEDDED.
- SEE DOWEL SUPPORT ASSEMBLY DETAILS FOR DOWEL ALIGNMENT TOLERANCES.
- FOR LONGITUDINAL JOINTS, PROVIDE A TIED JOINT WITH #4 BARS 24" IN LENGTH AT 30" SPACING FOR SLABS WITH A THICKNESS OF LESS THAN 8". PROVIDE A TIED JOINT WITH #5 BARS 30" IN LENGTH AT 36" SPACING FOR SLABS WITH A THICKNESS OF 8" OR MORE.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION



ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Added to CADD on 4-30-1999 by J.F.T.
2. Added Bridge End Slab Widen Detail on 8-12-2002 by J.F.T.
3. Deleted Hook Bolt sketch. Added Note No. 6 Isolation Joint sketch, dowel tie bar sketch and sheet 2 of 2 on 9-1-2004 by J.F.T.
4. Added Tie Bar Table. Also added size note for dowels. Modified associated details and callouts on 7-10-2019 by D.J.W.
5. Removed the Tie Bar Dimension and Spacing Table. Added Note 7 concerning Longitudinal Joint with info on Tied Joint and Bar Spacing, and added the Multi-Piece Tie Bar drawing on 7-14-2025 by J.F.T.

Bureau Std Engr. G.L.D.
DRAWN BY:
DATE DRAWN: 3-3-1989
REVISED DATE: 7-14-2025

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF STANDARD PLAIN AND REINFORCED CEMENT CONCRETE PAVEMENT AND BRIDGE END SLAB JOINTS

SPECIAL DRAWING NO
INDEX NO
SPECIAL PROJECT DETAIL