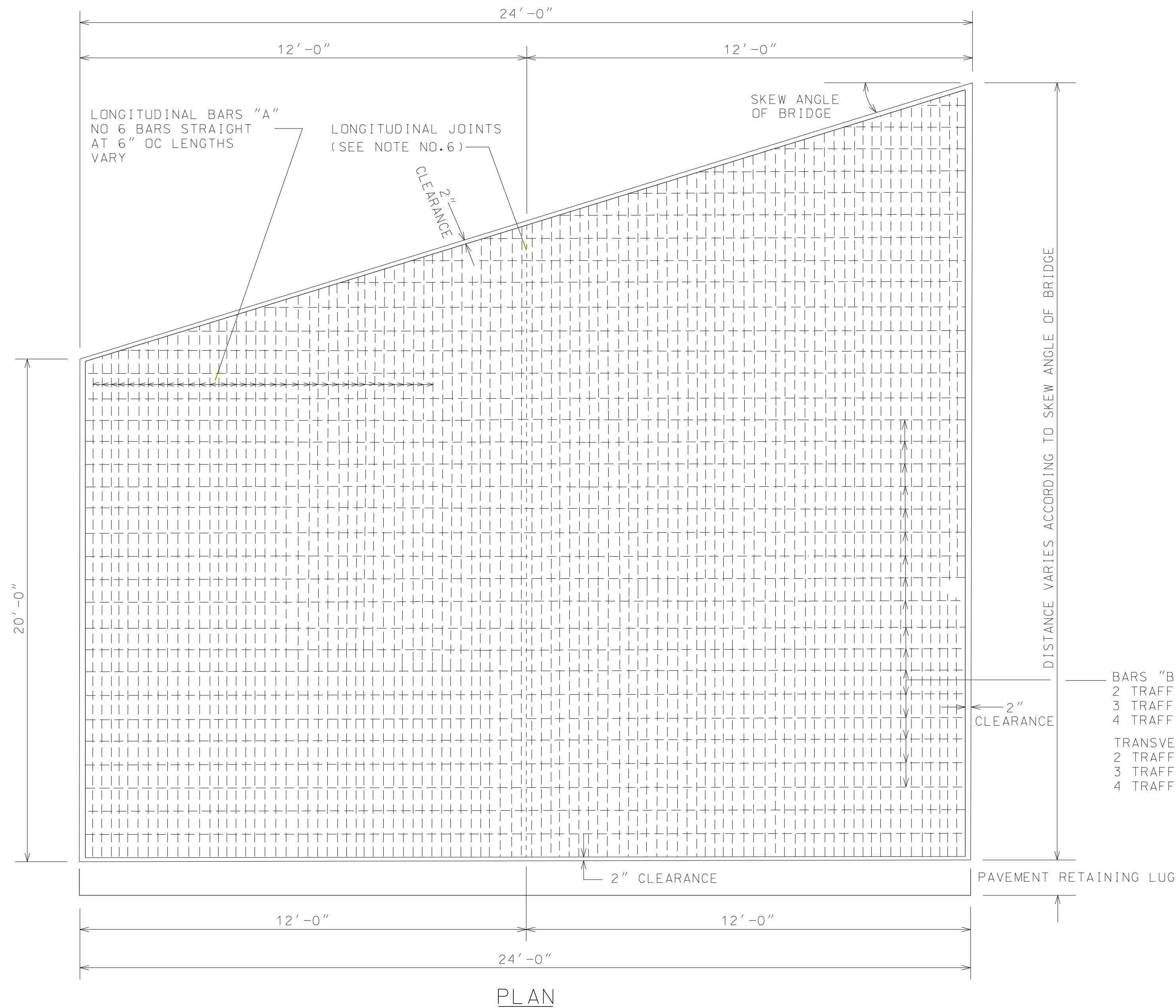
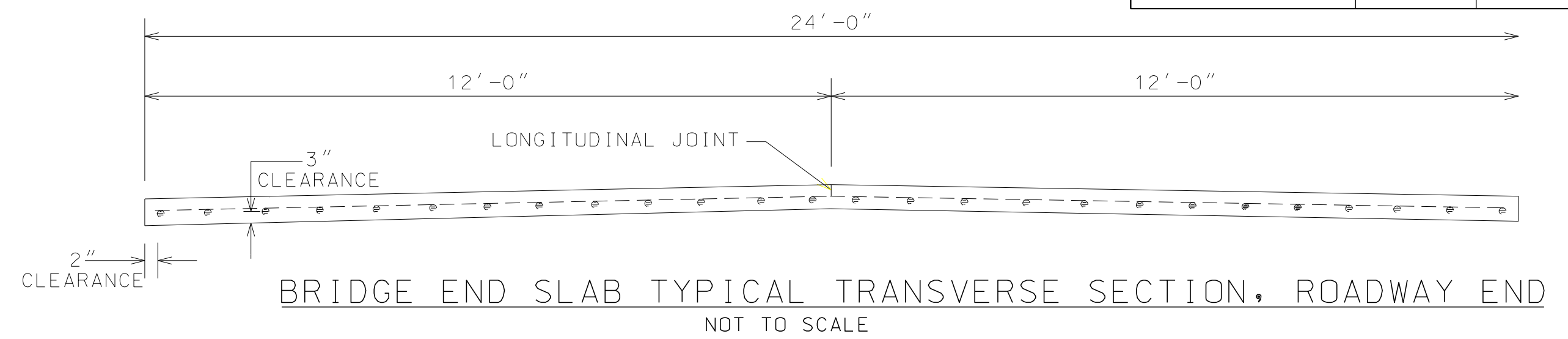


REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



GENERAL NOTES

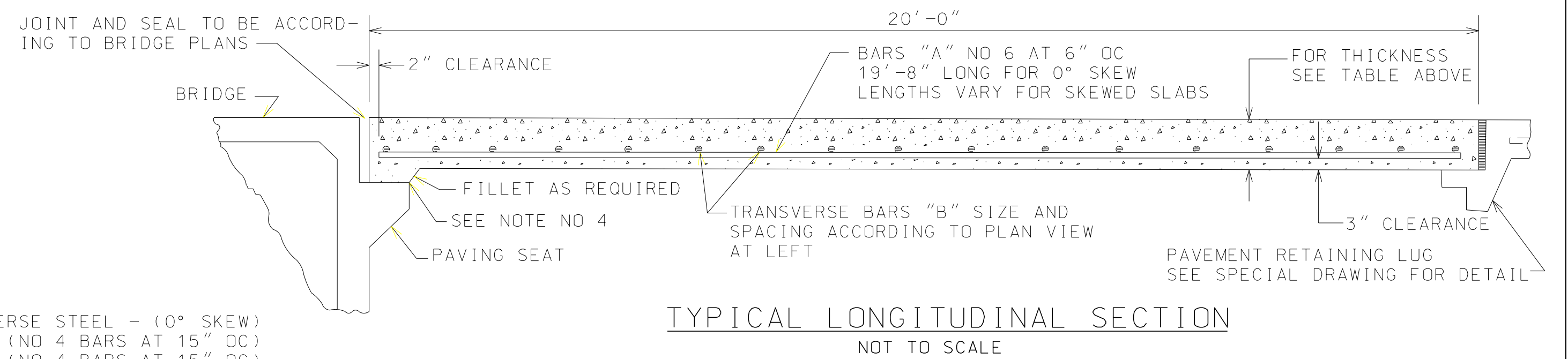
1. IF HE ELECTS, THE CONTRACTOR MAY POUR THE BRIDGE END SLABS IN ONE (1) POUR. IF POURED IN ONE POUR, THE TRANSVERSE BARS SHALL BE CONTINUOUS ACROSS LONGITUDINAL JOINTS AND SLAB. IT IS DESIRABLE FOR TRANSVERSE BARS TO CROSS SLAB IN ONE LENGTH WHEN FEASIBLE. WHEN NECESSARY TO USE MORE THAN ONE (1) BAR ACROSS SLAB, LAPS SHALL BE 20" LONG FOR NO. 4 BARS AND 25" FOR NO 5 BARS. ALL LAPS SHALL BE WELL STAGGERED THROUGHOUT THE SLAB AND SHALL BE TIED WITH TWO (2) WIRE TIES. LONGITUDINAL JOINTS TO BE SAWED.
2. WHEN PAVEMENT IS CONCRETE, THE FINISHED CROWN OF BRIDGE END SLAB SHALL CONFORM TO CROWN OF BRIDGE END SLAB AT END ADJACENT TO BRIDGE AND TO CROWN OF ROADWAY AT END ADJACENT TO PAVEMENT. THE CROWN SHALL VARY UNIFORMLY. A BELTED CROWN SECTION WILL REQUIRE THE PLACING OF ADJOINING LANES AT THE SAME TIME. HENCE ONLY A CONTRACTION JOINT WILL BE ALLOWED THROUGH THE CROWN SECTION.
3. WHEN ROADWAY PAVEMENT IS BITUMINOUS, THE FINISHED CROWN OF BRIDGE END SLAB SHALL CONFORM TO CROWN OF BRIDGE. TRANSITION FROM NORMAL CROWN OF BITUMINOUS PAVEMENT TO CROWN OF BRIDGE END SLAB SHALL BE MADE IN DISTANCE OF 100 FT.
4. WHERE THE BRIDGE PAVING SEAT IS CAST IN THE BRIDGE END SPAN, PLACE TWO (2) LAYERS OF GRAPHITE SURFACED SHEET PACKING, 1/16 INCH THICK BETWEEN THE BRIDGE END SLAB AND BRIDGE PAVING SEAT. THE GRAPHITE SURFACES SHALL BE PLACED ADJACENT TO ONE ANOTHER TO AID IN EXPANSION AND CONTRACTION.
5. WIDTHS OF BRIDGE END SLAB SHOWN ARE FOR TWO (2) LANE TRAVELWAY. THIS PLAN MAY BE USED FOR VARIOUS WIDTHS DESIRED.
6. LONGITUDINAL JOINTS TO BE KEYED IF SLABS ARE POURED LANE AT A TIME. DEFORMED TIE BARS OR HOOK BOLTS ACROSS JOINTS SHALL CORRESPOND TO SPACING SCHEDULE SHOWN FOR TRANSVERSE STEEL PLACEMENT.
7. FOR BRIDGES CONSTRUCTED ON 15° AND GREATER SKEW, SEE BRIDGE STANDARD DRAWING No I-131 (SHEETS, 4 & 5 OF 8). FOR BRIDGE RAIL EXTENSIONS PAID AS BRIDGE END SLAB.




CONCRETE THICKNESS FOR SKEWED SLABS

0° TO 15° SKEW - 10" THICK
15° TO 33° SKEW - 10" TO 11" THICK
33° TO 45° SKEW - 10" TO 14" THICK
GREATER THAN 45° SKEW - 10" TO 14" THICK

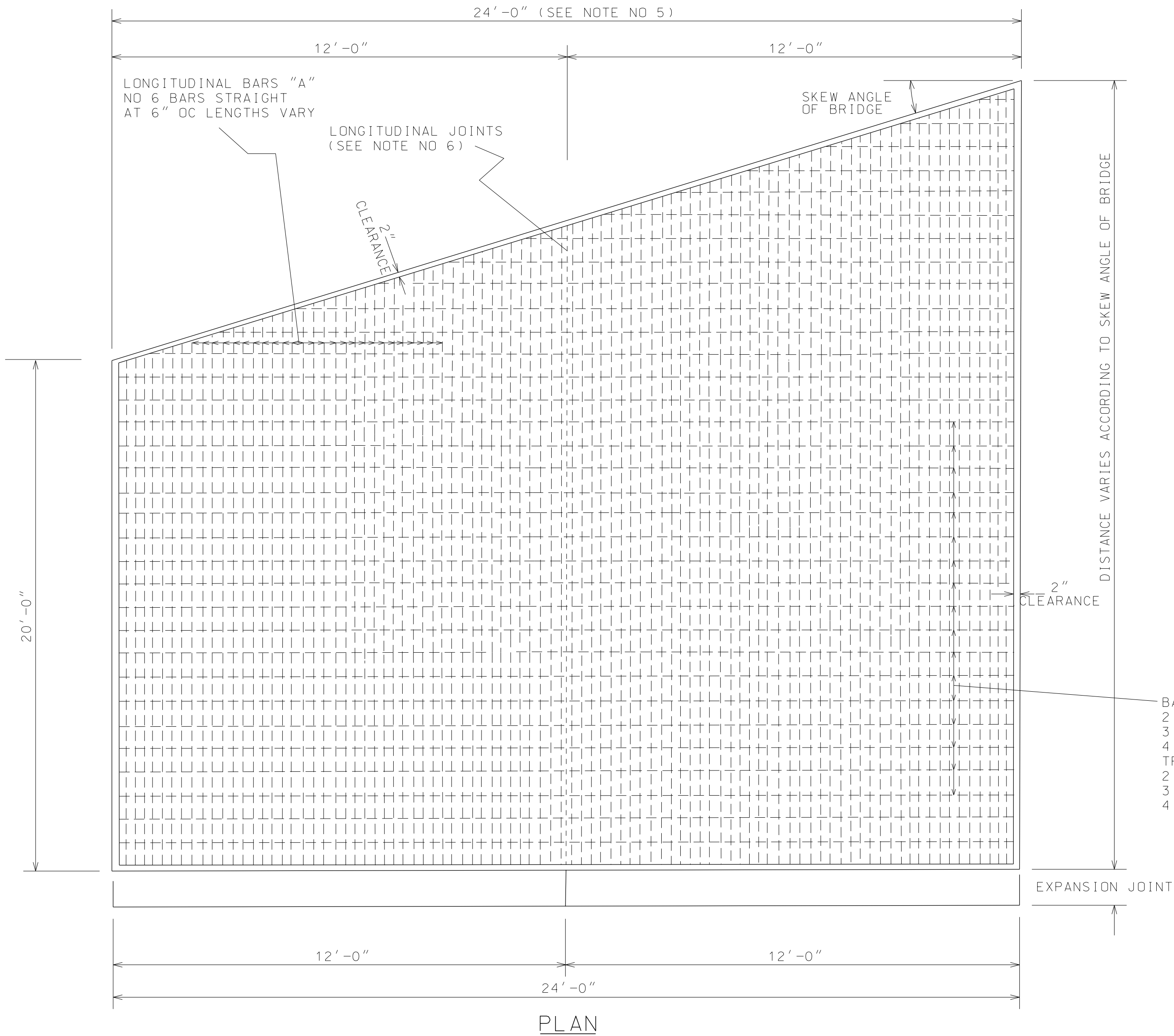
SLABS SHALL BE INCREASED IN THICKNESS ON LONG SIDE.
THICKNESS SHALL VARY TRANSVERSLY FROM LONG SIDE TO
SHORT SIDE IN A UNIFORM MANNER.



NOTE: STEEL SHALL BE SECURELY TIED SO, THAT IT WILL REMAIN IN IT'S ORIGINAL PLACEMENT CONDITION DURING CONCRETE PLACEMENT.

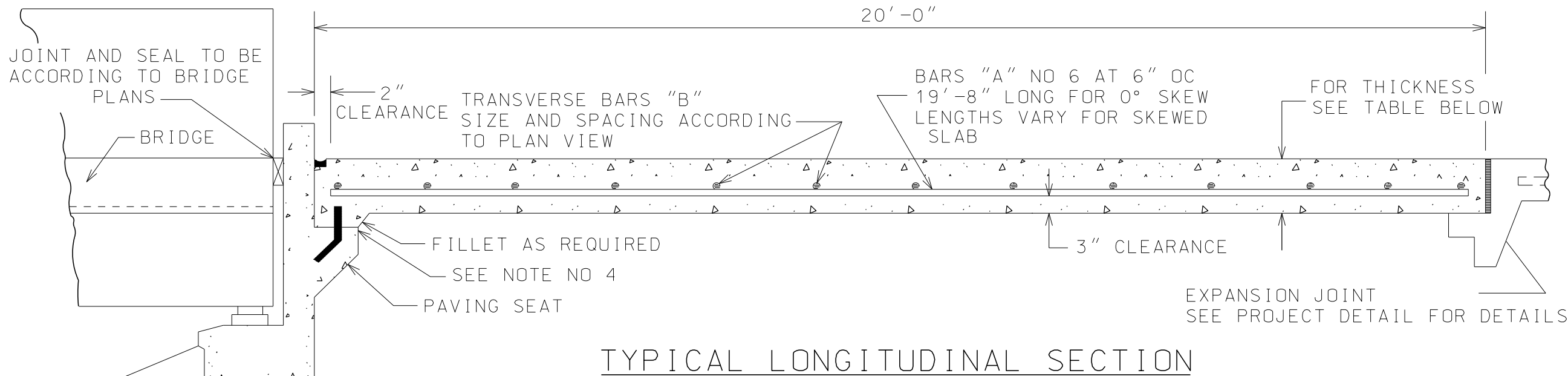
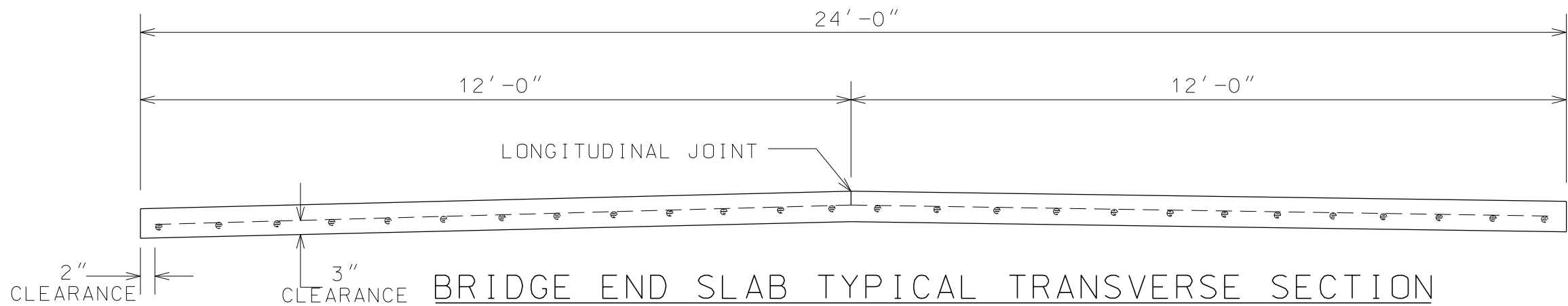
<p>--SPECIFICATIONS--</p> <p>CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION</p>		
<p>THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.</p>		
<p>REVISIONS</p> <p>1. Added to CADD on 04-30-99 by J.F.T.</p> <p>2. Added Note NO. 7 on 10-07-05 by J.F.T.</p>		<p>ALABAMA DEPARTMENT OF TRANSPORTATION</p> <p>1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</p>
<p>DESIGN BUREAU SPECIAL DRAWING</p>		
<p>REINFORCED CONCRETE BRIDGE END SLAB FOR USE WITH BARRIER RAIL</p>		
<p>Bureau Std Engr: <u>D.J.W.</u></p> <p>DRAWN BY: _____ DATE DRAWN: <u>10-05-89</u></p>	<p>SPECIAL DRAWING NO</p> <p>BES-450</p>	<p>INDEX NO</p> <p>45001</p>

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GENERAL NOTES

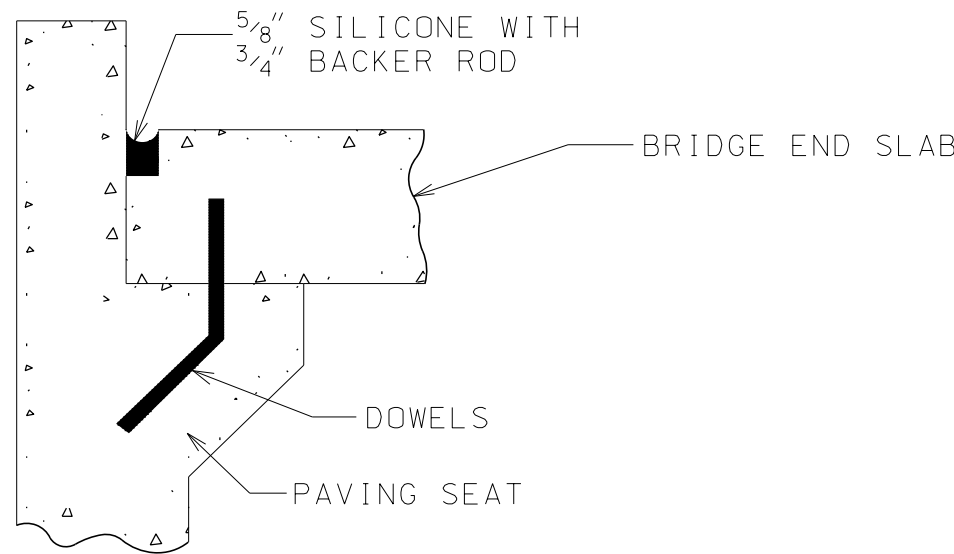
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- FOR BRIDGES CONSTRUCTED ON 15° AND GREATER SKEW, SEE BRIDGE STANDARD DRAWING NO 1-131 (SHEETS 4 & 5 OF 8). FOR BRIDGE RAIL EXTENSIONS PAID AS BRIDGE END SLAB.



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SLABS SHALL INCREASE IN THICKNESS ON LONG SIDE,
THICKNESS SHALL VARY TRANSVERSLY FROM LONG
SIDE TO SHORT SIDE IN A UNIFORM MANNER.



DETAIL OF SEAL AT
BRIDGE END SLAB

NOTE: STEEL SHALL BE SECURELY TIED SO,
THAT IT WILL REMAIN IN ITS ORIGINAL
PLACEMENT CONDITION DURING CONCRETE
PLACEMENT.

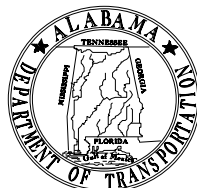
--SPECIFICATIONS--

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REVISIONS

- Added to CADD on 04-30-99 by J.F.T.
- Added to Note no. 7 on 10-07-05 by J.F.T.



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

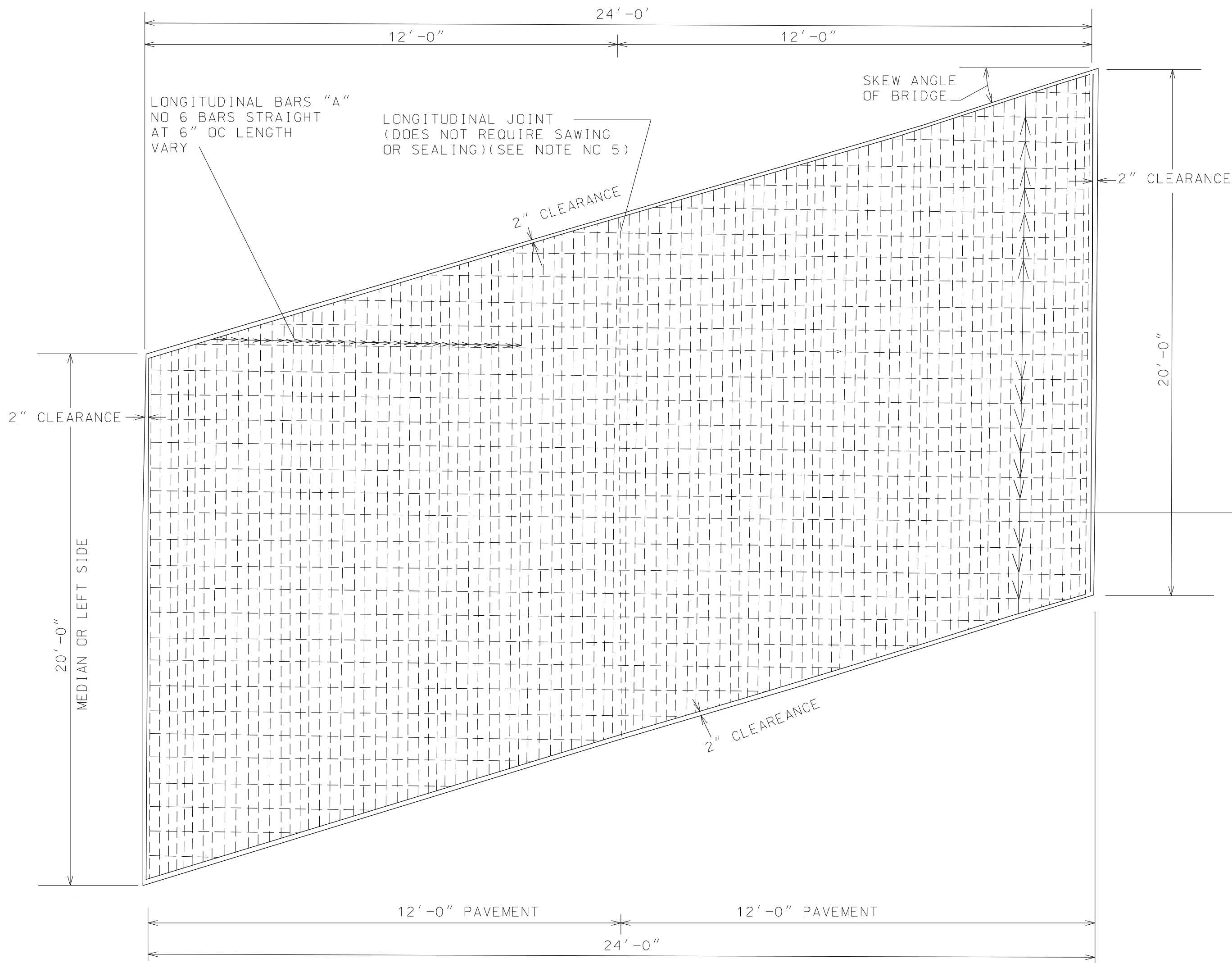
DESIGN BUREAU SPECIAL DRAWING
REINFORCED CONCRETE BRIDGE
END SLAB FOR USE WITH BARRIER
RAIL AND EXPANSION JOINT
WITHIN ABUTMENT WALL LIMITS

Bureau Std Engr: D.J.W.
DRAWN BY: _____ DATE DRAWN: 10-05-89

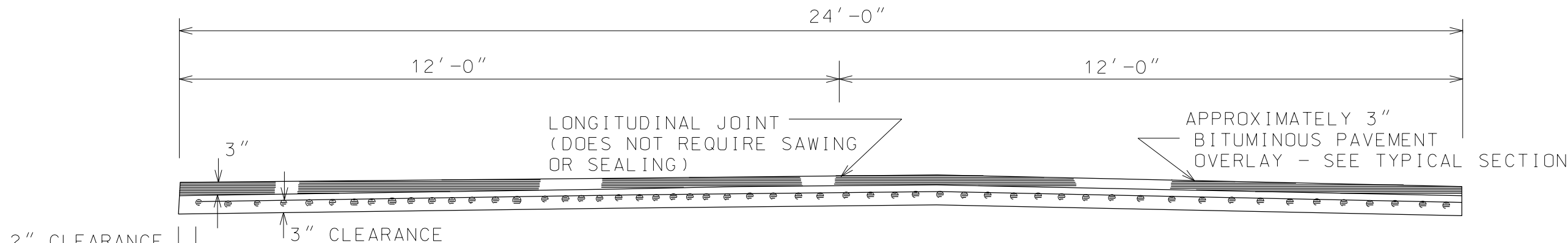
SPECIAL DRAWING NO
BES-450-I

INDEX NO
45004

NOT TO SCALE



PLAN

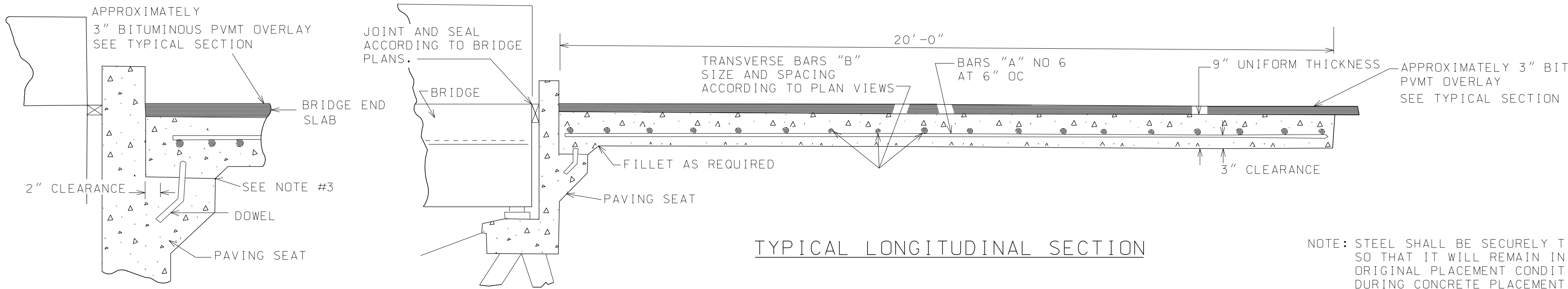


BRIDGE END SLAB - TYPICAL TRANSVERSE SECTION, ROADWAY END

- BARS "B" TRANSVERSE STEEL (0° SKEW) (SEE GENERAL NOTE NO 6)
- 2 TRAFFIC LANES (NO 4 BARS AT 15" OC)
 - 3 TRAFFIC LANES (NO 4 BARS AT 15" OC)
 - 4 TRAFFIC LANES (NO 5 BARS AT 15" OC)
- TRANSVERSE STEEL (SKEWED SLABS)
- 2 TRAFFIC LANES (NO 4 BARS AT 15" OC)
 - 3 TRAFFIC LANES (NO 5 BARS AT 15" OC)
 - 4 TRAFFIC LANES (NO 5 BARS AT 10" OC)

GENERAL NOTES

- IF HE ELECTS, THE CONTRACTOR MAY POUR THE BRIDGE END SLABS IN ONE POUR. IF POURED IN ONE POUR, THE TRANSVERSE BARS SHALL BE CONTINUOUS ACROSS LONGITUDINAL JOINT AND SLAB. IT IS DESIRABLE FOR TRANSVERSE BARS TO CROSS SLAB IN ONE LENGTH WHEN FEASIBLE. WHEN NECESSARY TO USE MORE THAN ONE (1) BAR ACROSS SLAB, LAPS SHALL BE 20" LONG FOR NO 4 BARS AND 25" LONG FOR NO 5 BARS. ALL LAPS SHALL BE WELL STAGGERED THROUGHOUT THE SLAB AND SHALL BE TIED WITH TWO (2) WIRE TIES.
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- LONGITUDINAL JOINTS TO BE KEYED IF SLABS ARE POURED ONE LANE AT A TIME. DEFORMED TIE BARS OR #5 HOOK BOLTS ACROSS JOINTS SHALL CORRESPOND TO SPACING SHOWN IN SCHEDULE FOR TRANSVERSE STEEL PLACEMENT.
- THE TRANSVERSE STEEL PATTERN IS SHOWN PERPENDICULAR TO THE ROADWAY. THIS STEEL PATTERN MUST BE USED FOR BRIDGE SKEWS GREATER THAN 15°. FOR BRIDGE SKEWS 0° TO 15°, THE TRANSVERSE STEEL MAY BE PARALLEL TO THE SKEW. SEE DRAWING NO BES-450-OJ (INDEX NO 106).
- FOR BRIDGES CONSTRUCTED ON 15° AND GREATER SKEW, SEE BRIDGE STANDARD DRAWING 1-131 (SHEETS 4 & 5 OF 8). FOR BRIDGE RAIL EXTENSIONS PAID AS BRIDGE END SLAB.

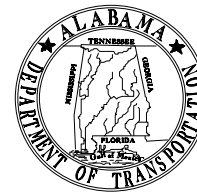


TYPICAL LONGITUDINAL SECTION

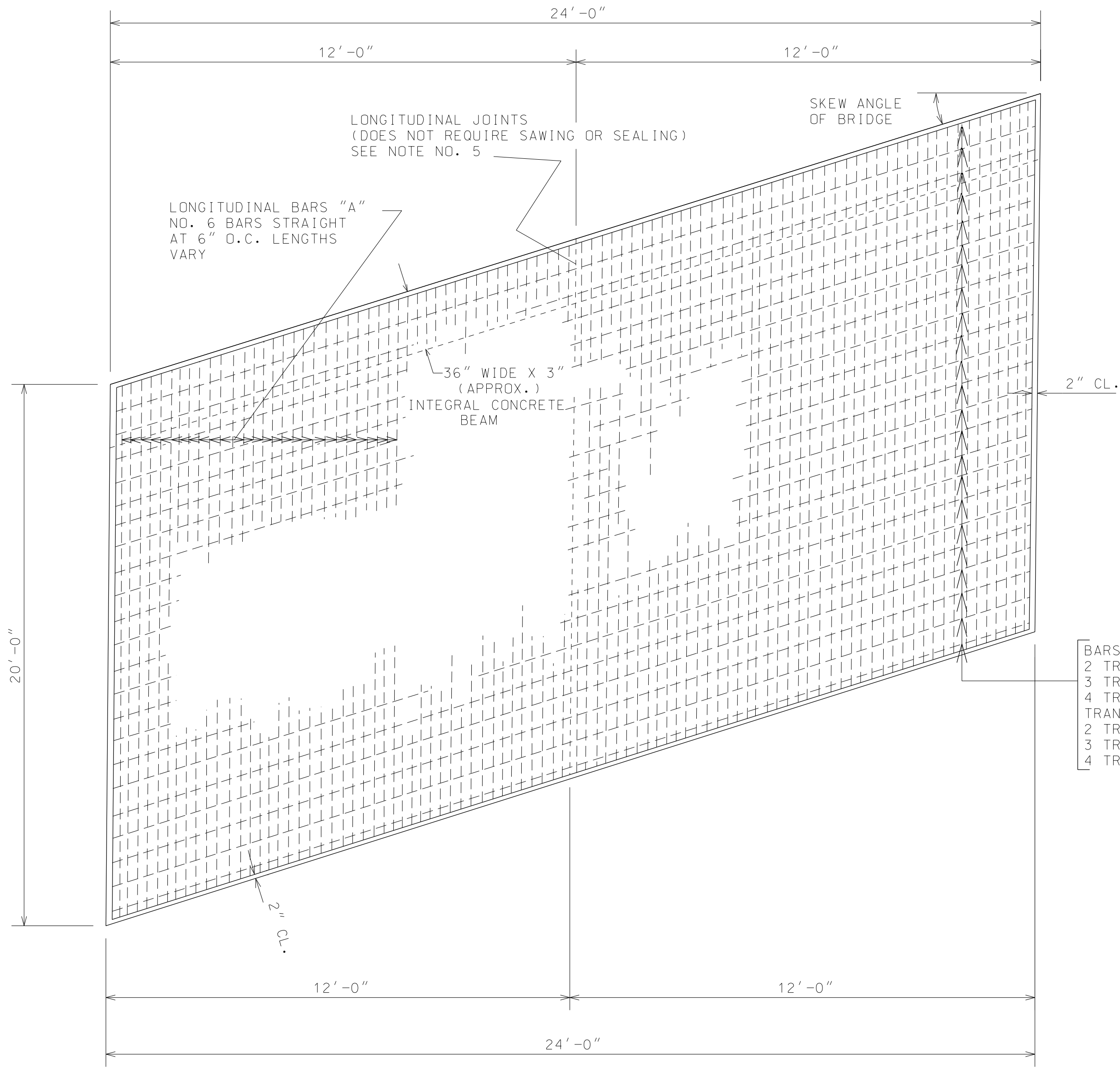
NOTE: STEEL SHALL BE SECURELY TIED SO THAT IT WILL REMAIN IN ITS ORIGINAL PLACEMENT CONDITION DURING CONCRETE PLACEMENT.

DETAIL OF PAVING SEAT

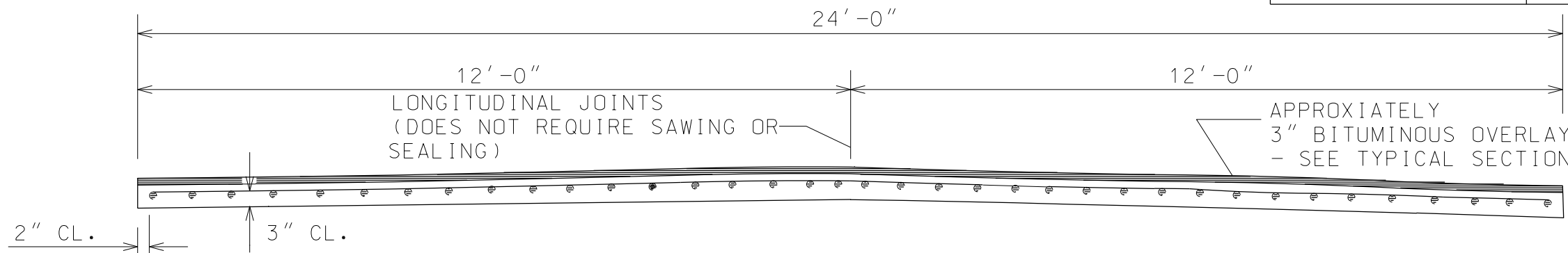
--SPECIFICATIONS--
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REVISIONS 1. Added to CADD on 04-30-99 by J.F.T. 2. Added Note No. 6 to match the Bridge Bureau policy 10-17-02 by J.F.T. 3. Adjusted Note No. 6 and added Note 7 on 10-11-05 by J.F.T.		
 ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050		
DESIGN BUREAU SPECIAL DRAWING REINFORCED CONCRETE BRIDGE END SLAB (WITH BITUMINOUS PAV'T. OVERLAY) FOR USE WITH BARRIER RAIL & EXPANSION JOINT WITHIN ABUTMENT WALL LIMITS		
Bureau Std Engr: D.J.W. DRAWN BY: _____ DATE DRAWN: 10-05-89	SPECIAL DRAWING NO BES-450-0	INDEX NO 45007

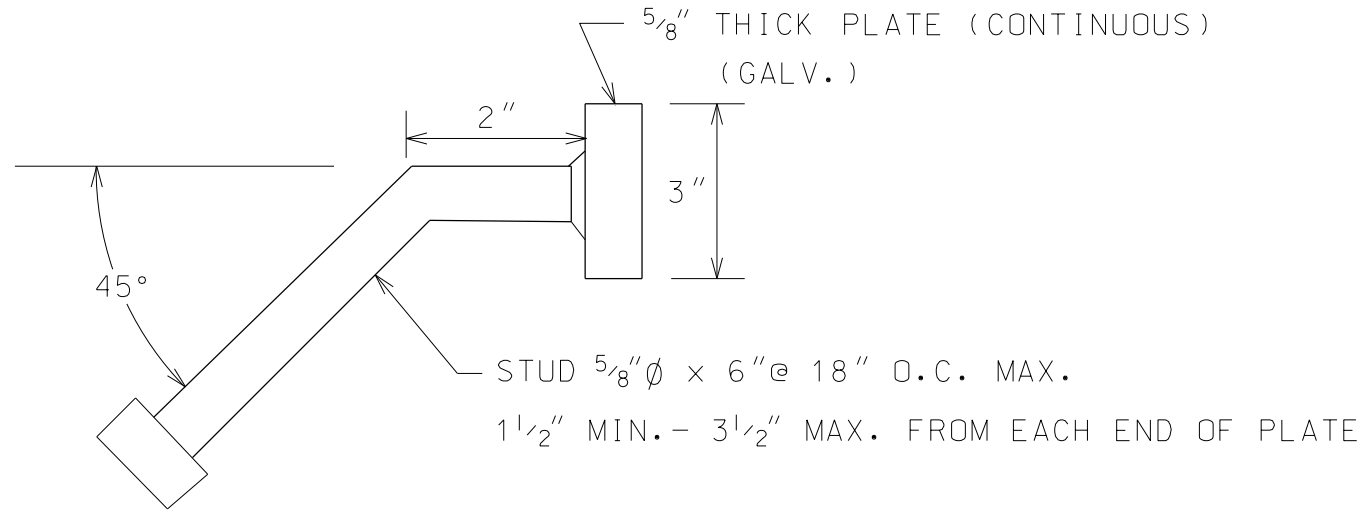
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PLAN



BRIDGE END SLAB TYPICAL TRANSVERSE SECTION

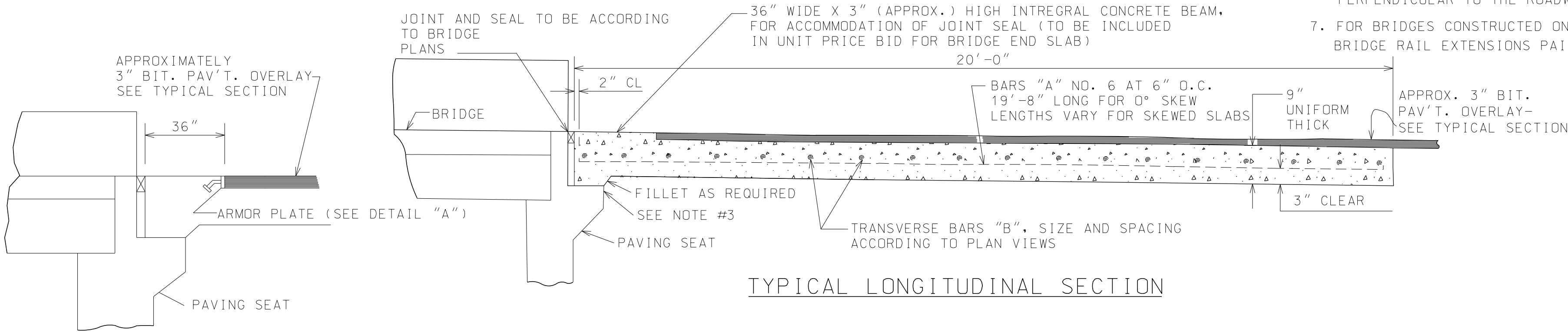


ARMOR PLATE

DETAIL "A"

GENERAL NOTES


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- WHEN ROADWAY PAVEMENT IS BITUMINOUS, THE FINISHED CROWN OF BRIDGE END SLAB SHALL CONFORM TO CROWN OF BRIDGE. TRANSITION FROM NORMAL CROWN OF BITUMINOUS PAVEMENT TO CROWN OF BRIDGE END SLAB SHALL BE MADE IN A DISTANCE OF 100 FEET.
- WHERE THE BRIDGE PAVING SEAT IS CAST IN THE BRIDGE END SPAN, PLACE TWO (2) LAYERS OF GRAPHITE SURFACED SHEET PACKING, 1/16" THICK BETWEEN THE BRIDGE END SLAB AND THE BRIDGE PAVING SEAT. THE GRAPHITE SURFACES SHALL BE PLACED ADJACENT TO ONE ANOTHER TO AID IN EXPANSION AND CONTRACTION.
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- THE TRANSVERSE STEEL PATTERN IS SHOWN PARALLEL TO THE BRIDGE SKEW. THIS STEEL PATTERN IS FOR BRIDGE SKEWS 0° TO 15°. FOR BRIDGE SKEWS GREATER THAN 15°, THE TRANSVERSE STEEL MUST BE PERPENDICULAR TO THE ROADWAY. SEE DRAWING No. BES 450-0 (Index No. 105).
- FOR BRIDGES CONSTRUCTED ON 15° AND GREATER SKEW, SEE BRIDGE DRAWING I-131 (SHEETS 4 & 5 OF 8). FOR BRIDGE RAIL EXTENSIONS PAID AS BRIDGE END SLAB.



TYPICAL LONGITUDINAL SECTION

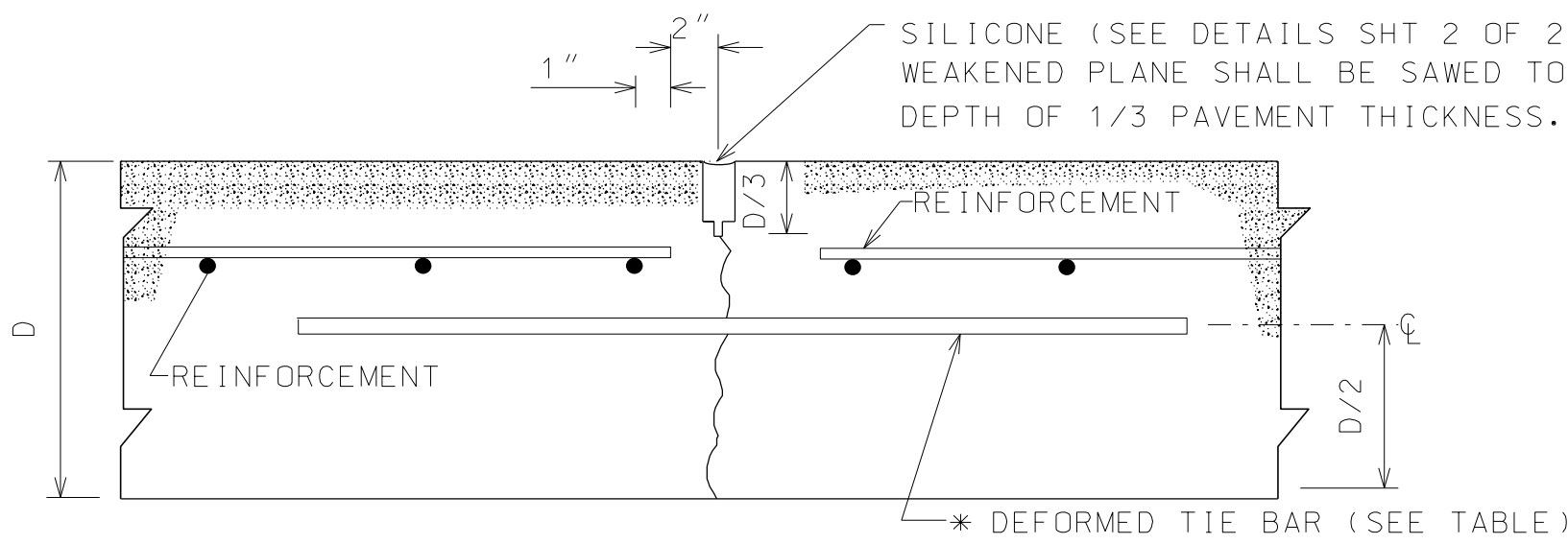
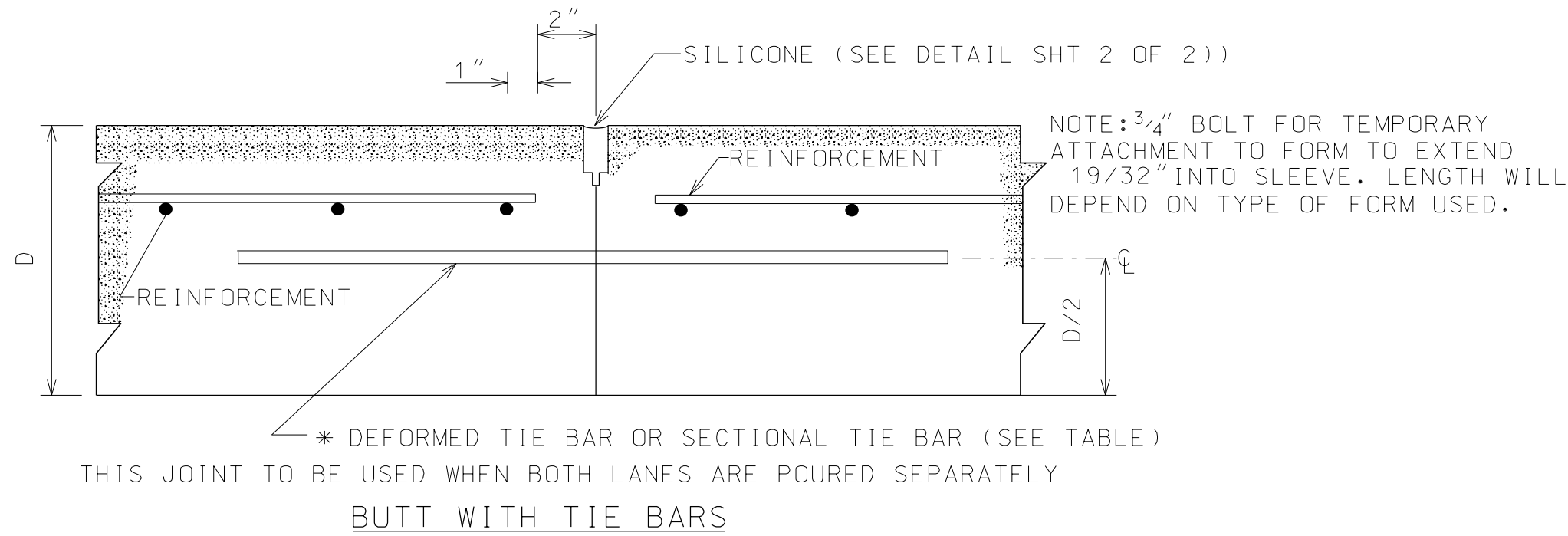
DETAIL OF PAVING SEAT

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<div>REVISIONS</div> <div>1. Added to CADD on 04-30-99 by J.F.T.</div> <div>2. Added Note No.6 to match Bridge Bureau policy 10-17-02 by J.F.T.</div> <div>3. Adjusted Note No.6 and added Note 7 on 10-07-05 by J.F.T.</div> <div>4. Clarified Armor Plate Detail as to location in the slab and requiring Galvanized Metal on 07-31-09 by W.W.A.</div>		
<div> ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</div>		
DESIGN BUREAU SPECIAL DRAWING REINFORCED CONCRETE BRIDGE END SLAB (WITH BITUMINOUS PAV'T. OVERLAY) FOR USE WITH BARRIER RAIL		
Bureau Std Engr: D.J.W. DRAWN BY: _____ DATE DRAWN: 10-05-89		INDEX NO BES-450-0J 45010

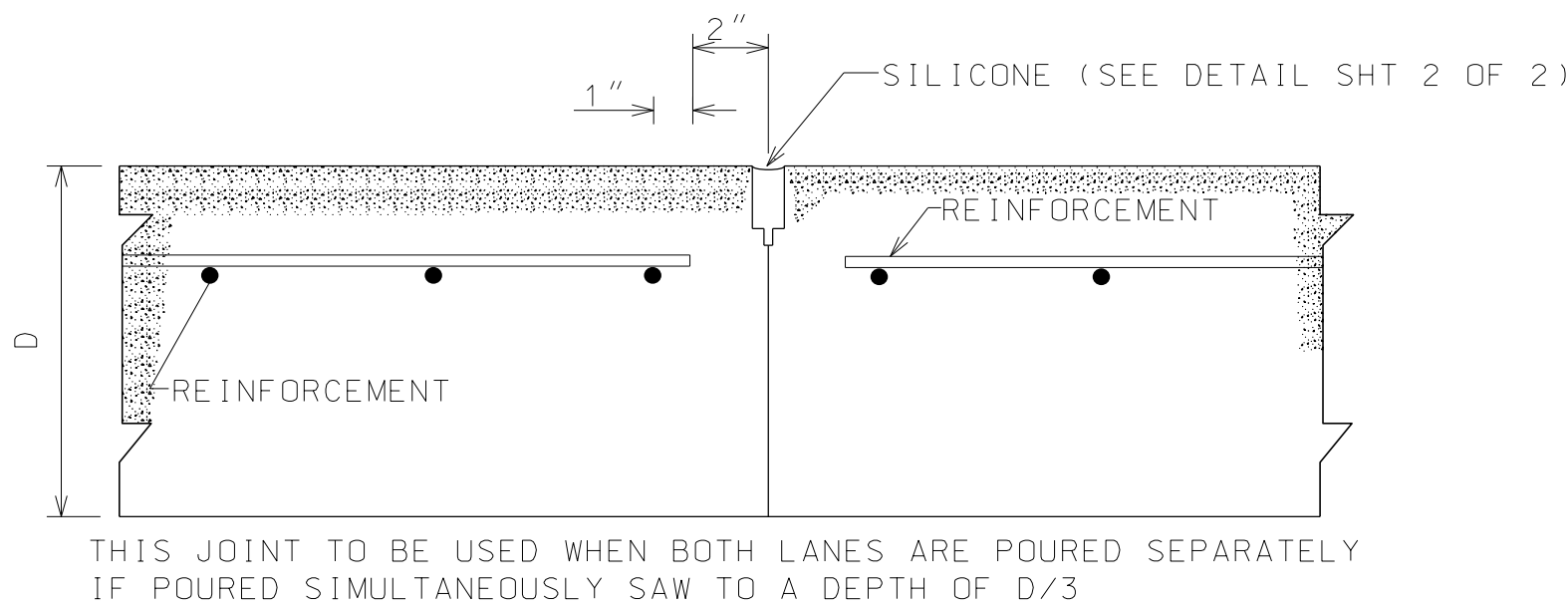
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LONGITUDINAL JOINTS
STANDARD PLAIN AND REINFORCED CONCRETE PAVEMENT



THIS JOINT TO BE USED WHEN BOTH LANES ARE POURED SIMULTANEOUSLY

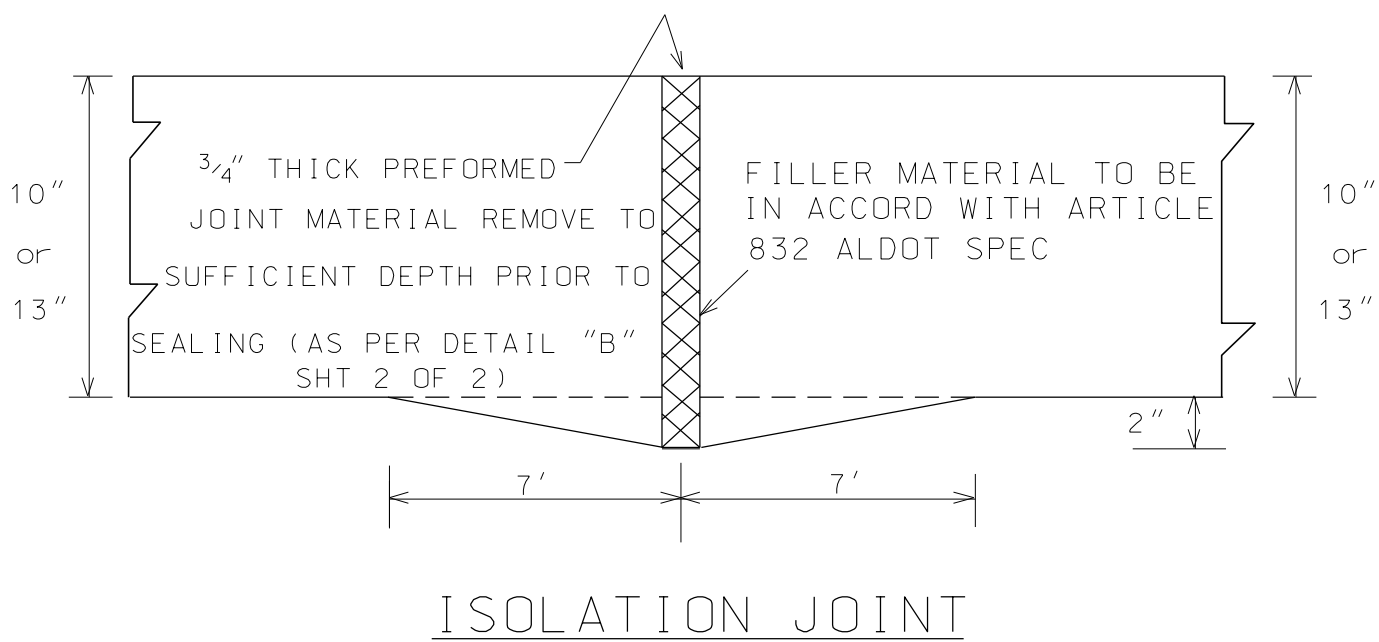
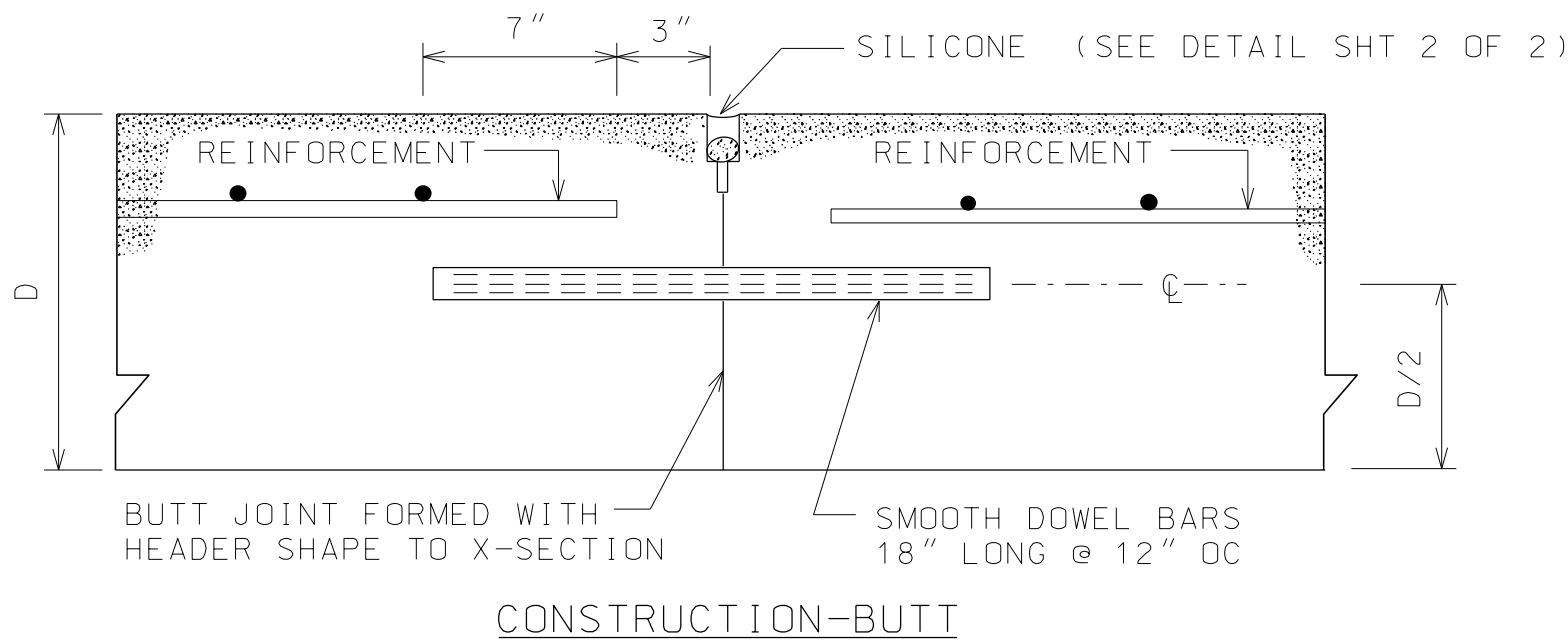
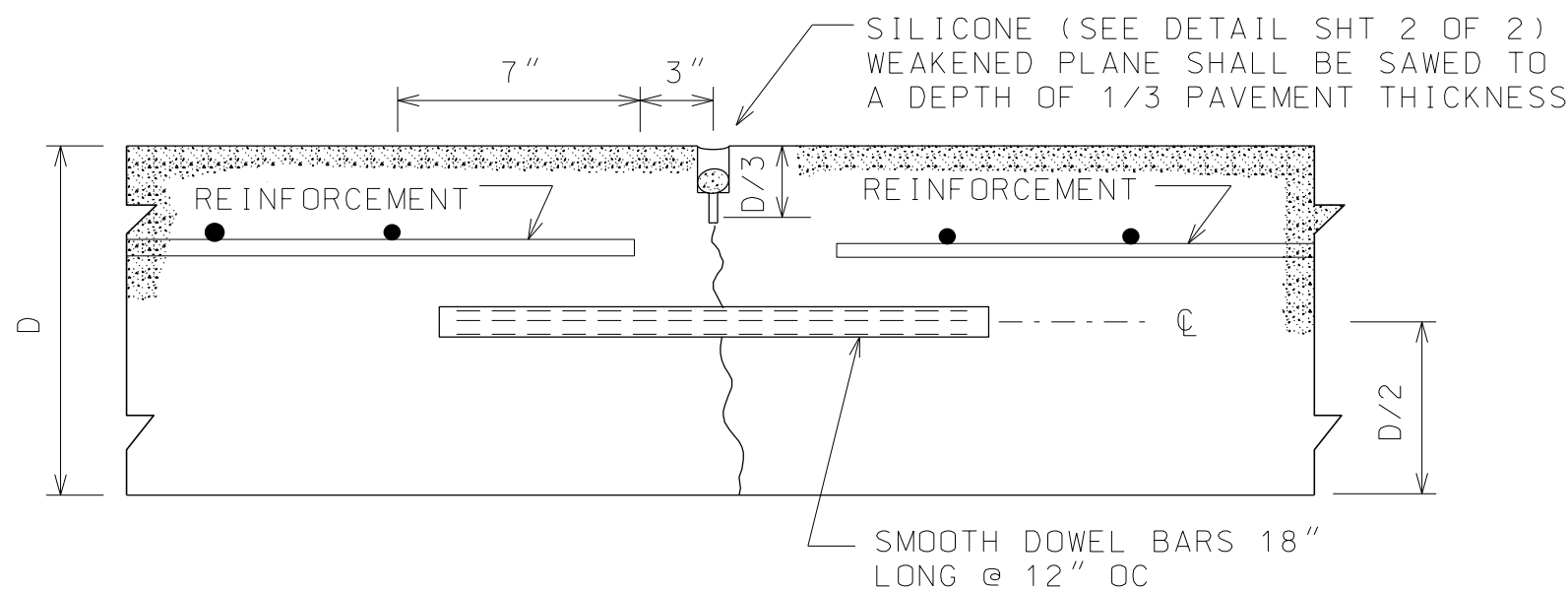
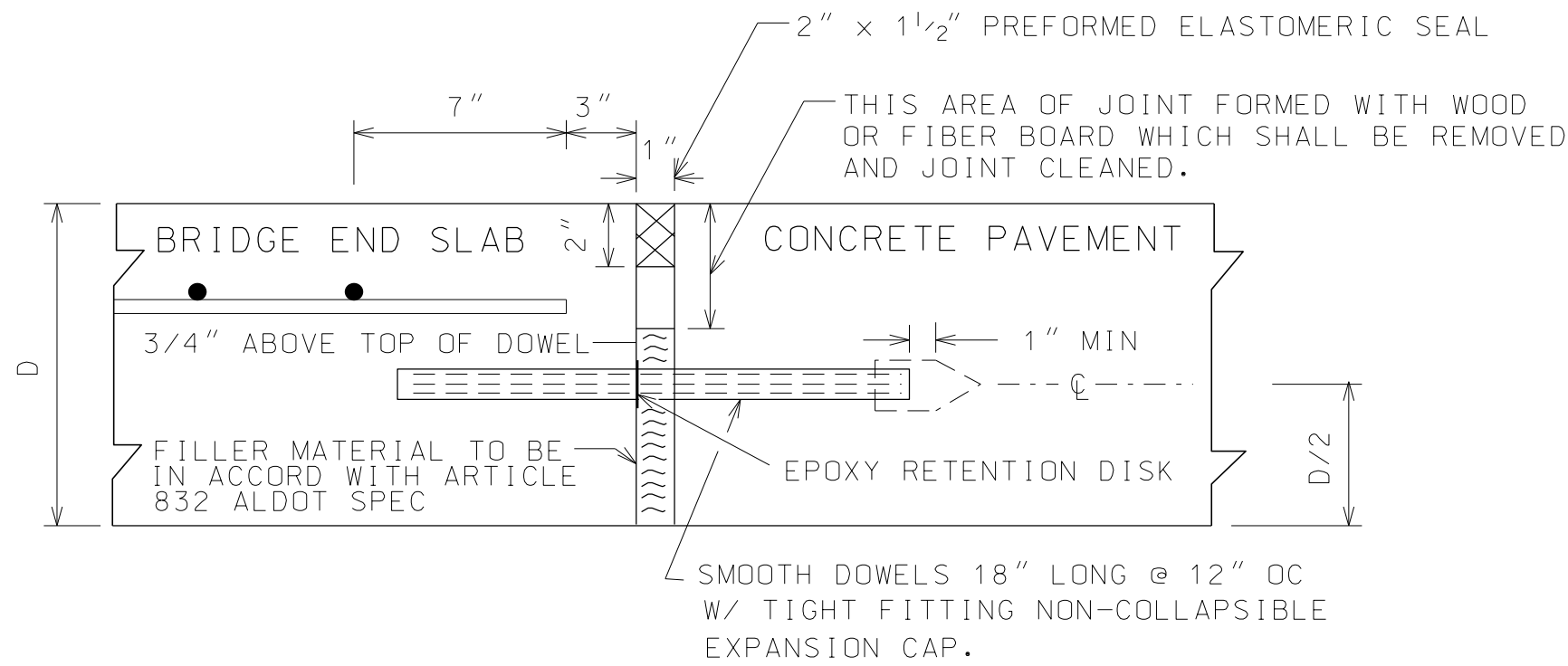
WEAKENED PLANE



TIE BAR ALIGNMENT TOLERANCE

1. 2" ALONG CENTER LINE LONGITUDINALLY (36" SPACING +/- 2")
2. 1" VERTICALLY (D/2 +/- 1")
3. 1/2" PER FOOT IN A VERTICAL OR HORIZONTAL AXIS

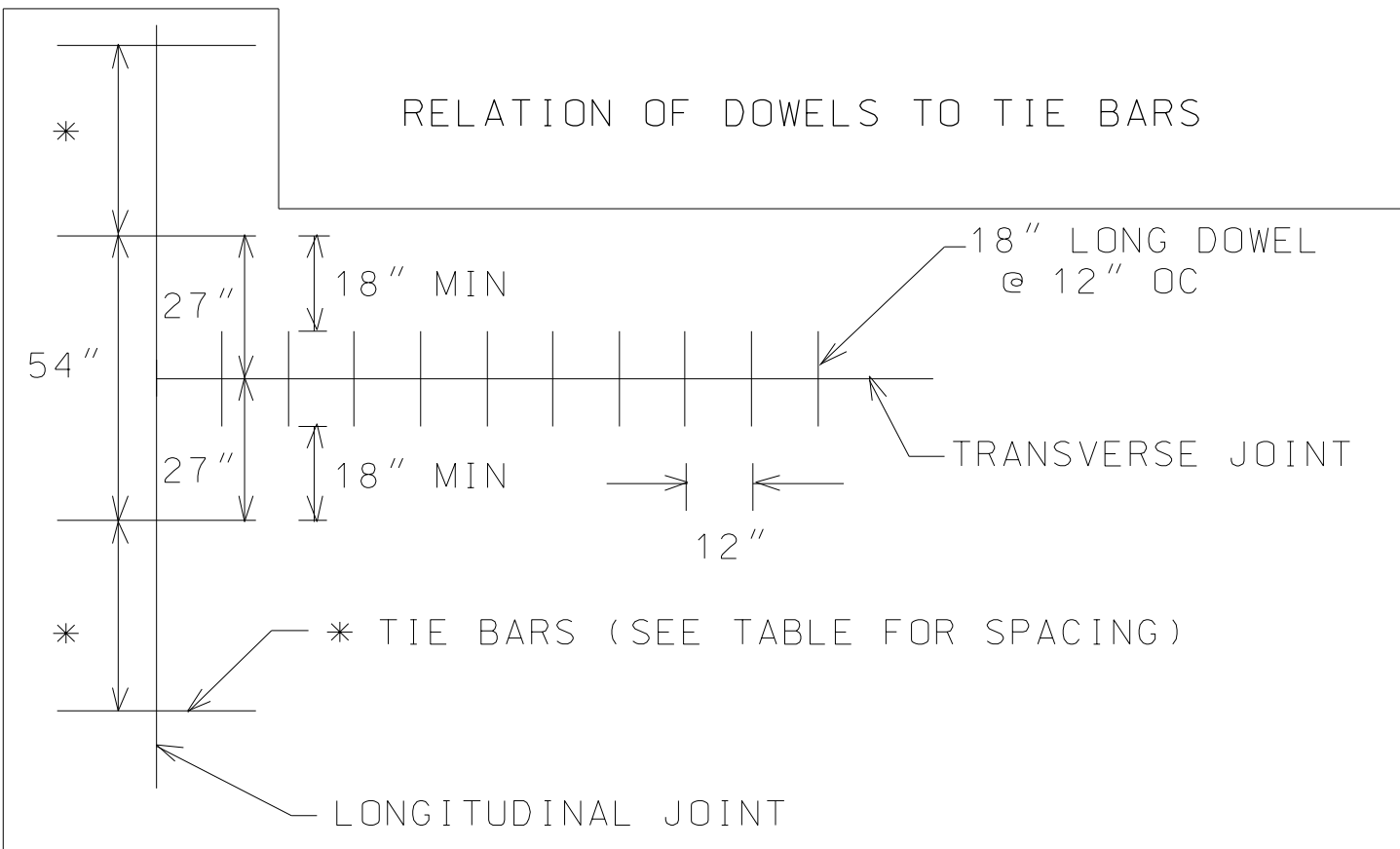
TRANSVERSE JOINTS
STANDARD PLAIN AND REINFORCED CONCRETE PAVEMENT



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.

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



GENERAL NOTES

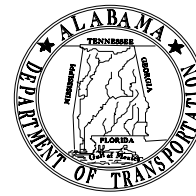
1. FOR PLAIN CONCRETE PAVEMENT JOINTS DISREGARD REINFORCING DETAILS.
2. ALL SEAL RESERVOIRS AND CONTRACTION JOINTS SHALL BE SAWED.
3. FOR DETAIL OF DOWEL SUPPORT ASSEMBLY SEE APPROPRIATE SPECIAL DRAWING.
4. SILICONE SEALANT SHALL BE TOOLED IMMEDIATELY AFTER APPLICATION.
5. WHEN CONTRACTOR OPTIONS TO USE ENCAPSULATED ANCHOR, THE REQUIRED LENGTH OF TIE BARS AS SHOWN SHALL BE FULLY EMBEDDED.
6. SEE DOWEL SUPPORT ASSEMBLY DETAILS FOR DOWEL ALIGNMENT TOLERANCES.



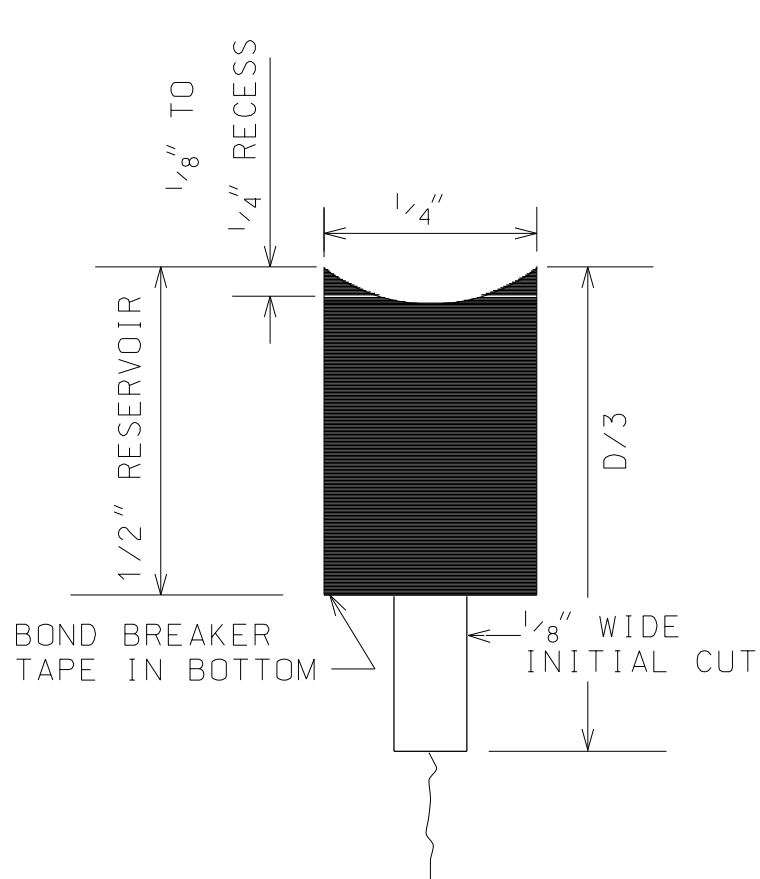
Tie Bar Dimensions and Spacings

Slab Thickness (Inches)	Tie Bar Size X Length (Inches)	Tie Bar Spacing (Inches)			
		Transverse distance to nearest edge of concrete pavement or unreinforced longitudinal joint			
		10 ft	12 ft	14 ft	24 ft
5	#4 X 24	30	30	30	28
6	#4 X 24	30	30	30	23
7	#4 X 24	30	30	30	20
8	#4 X 24	30	30	30	17
9	#5 X 30	36	36	36	24
10	#5 X 30	36	36	36	22
11	#5 X 30	36	36	34	20
12	#5 X 30	36	36	31	18

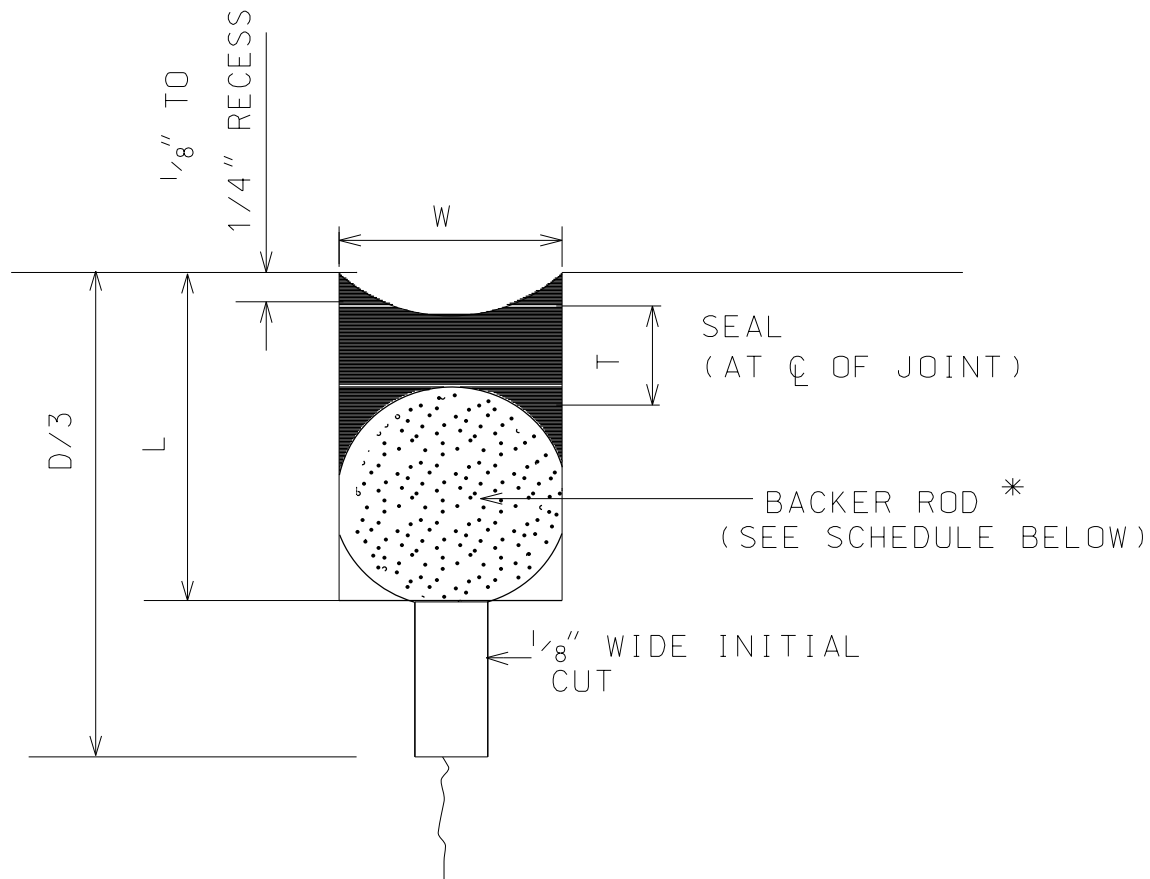
NOTE: ALL TIE BARS TO BE GRADE 60 STEEL

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REVISIONS 1. Added to CADD on 04-30-99 by J.F.T. 2. Added Bridge End Slab Widen Detail on 08-12-02 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 09-01-04 by J.F.T. 4. Added Tie Bar Table, Also added size note for dowels, Modified associated details and callouts on 7-10-19 by D.J.W.	DESIGN BUREAU SPECIAL DRAWING DETAILS OF STANDARD PLAIN AND REINFORCED CEMENT CONCRETE PAVEMENT AND BRIDGE END SLAB JOINTS
Bureau Std Engr: D.J.W. DRAWN BY: _____ DATE DRAWN: 03-03-89	SPECIAL DRAWING NO CPJ-450 (SHEET 1 OF 2) INDEX NO 45013

NOT TO SCALE



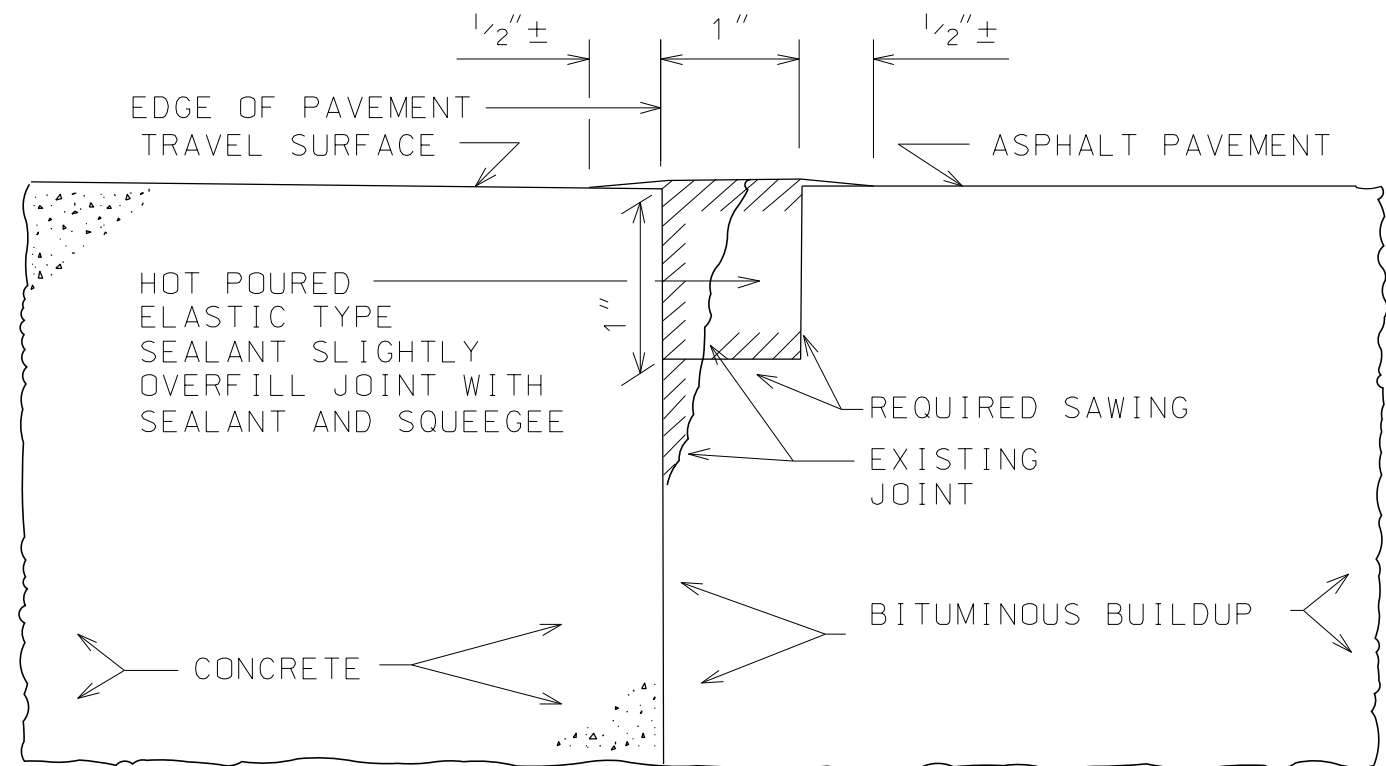
LONGITUDINAL SILICONE SEAL
DETAIL "A"



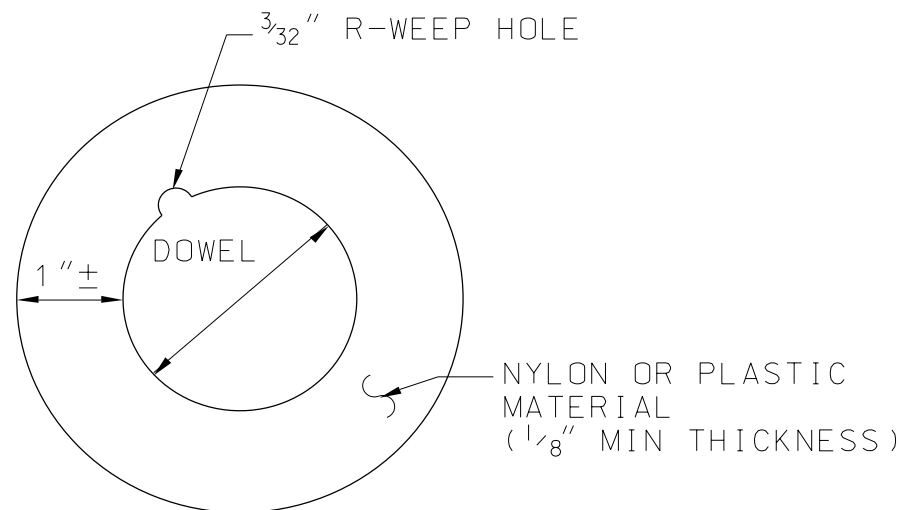
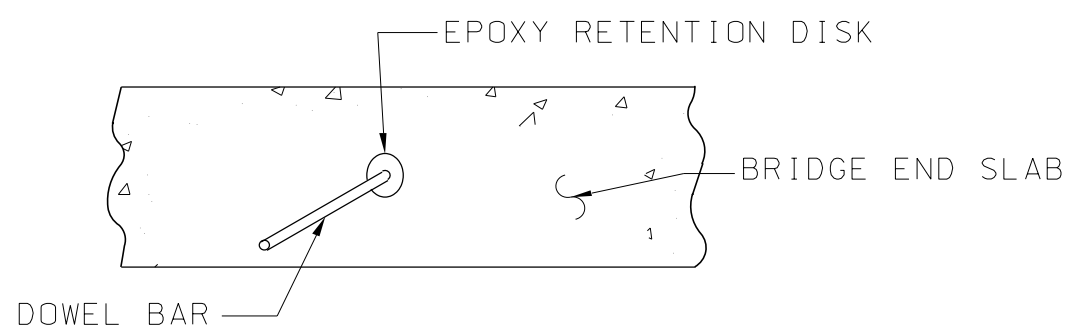
TRANSVERSE SILICONE SEAL
DETAIL "B"

SCHEDULE				
DETAIL FOR SHAPE FACTOR (TRANSVERSE ONLY)				
LENGTH OF SLAB	T	L	W	DIA OF *BACKER ROD
20' OR LESS	1/4"	1-1/4"	1/4"	3/8"
21' TO 40'	1/4"	1-1/4"	1/2"	5/8"
41' TO 60'	3/8"	1-3/4"	5/8"	3/4"

* NOTE:
BACKER ROD COMPATIBLE
w/SILICONE SEALANT AND
SLIGHTLY OVERSIZED TO
RESIST MOVEMENT DURING
SEALING.



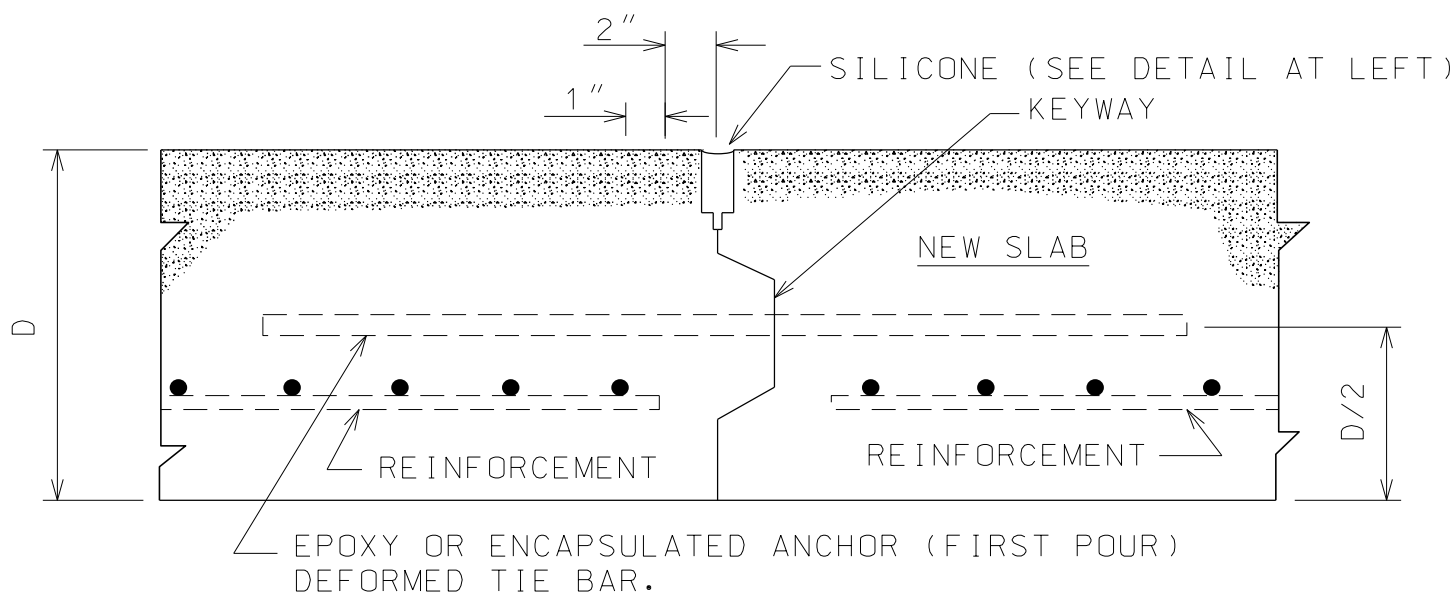
CONCRETE JOINT AT EXISTING
ASPHALT PAVEMENT



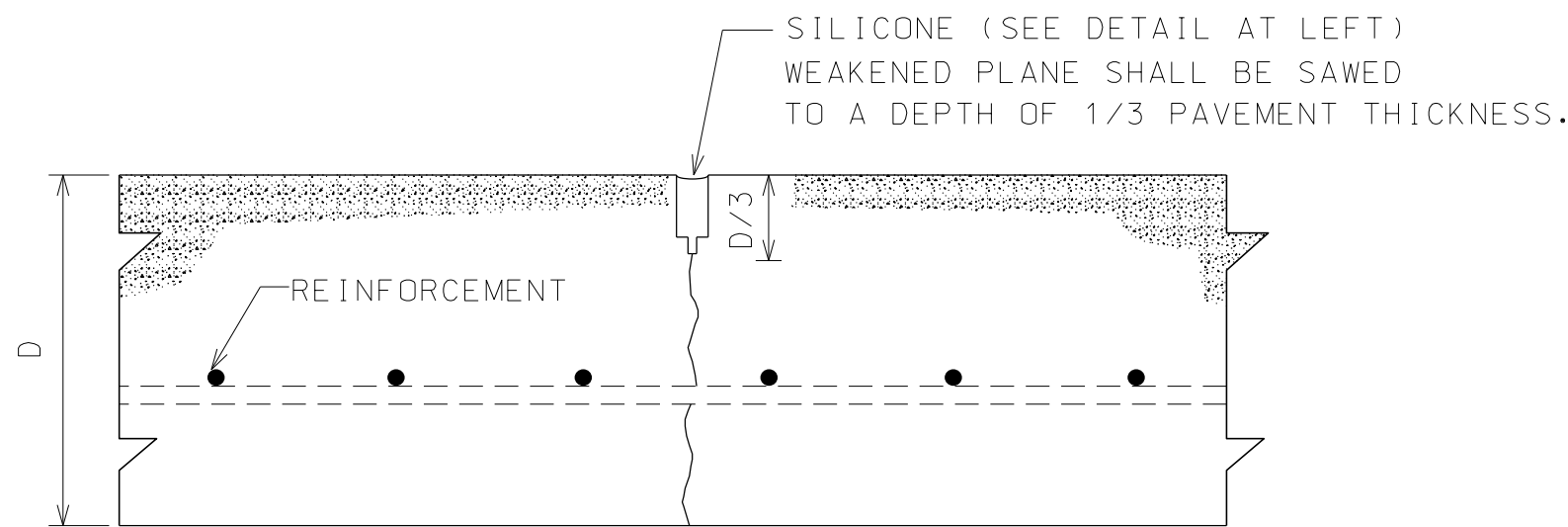
DETAILS OF EPOXY RETENTION DISK

REQUIRED TO EPOXY SMOOTH DOWELS
INTO EXISTING BRIDGE AND SLAB

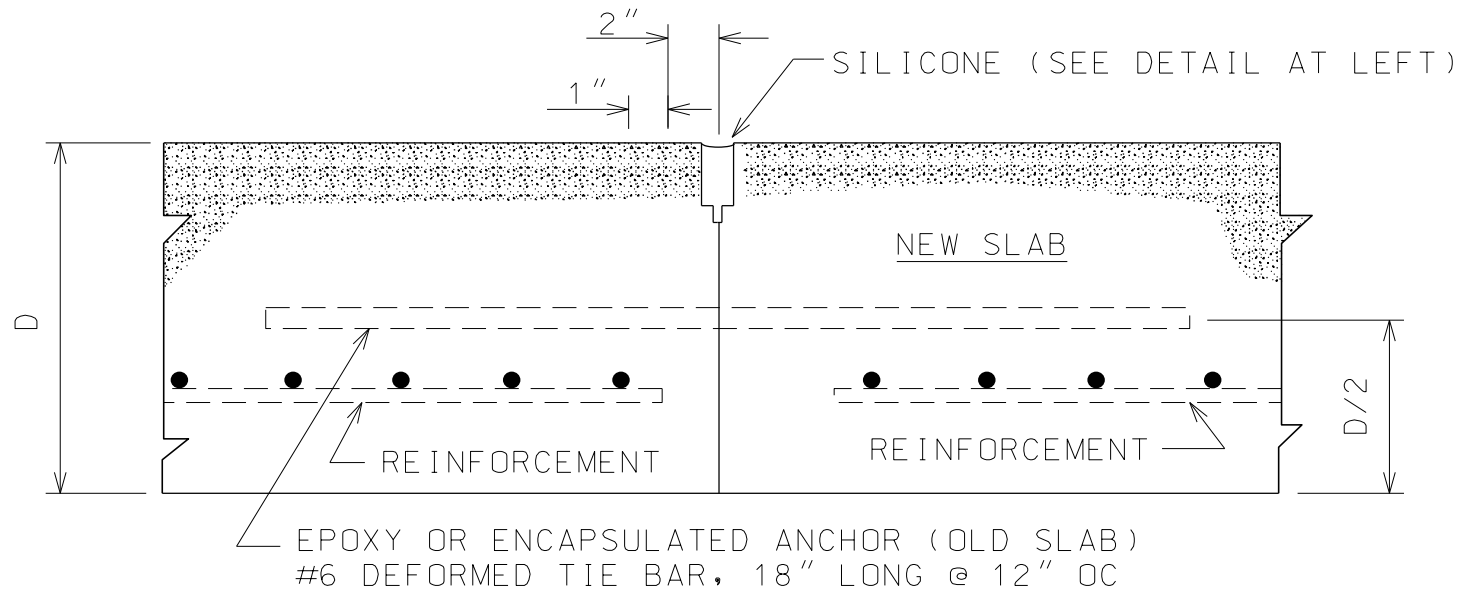
NOTE: EPOXY RETENTION DISK WILL BE REQUIRED FOR THE INSTALLATION OF ALL SMOOTH DOWELS INTO THE EXISTING CONCRETE. THE RETENTION DISK SHALL BE HELD IN PLACE UNTIL THE EPOXY HAS REACHED A CONSISTENCY THAT IT WILL NOT RUN OUT OF THE DRILLED HOLE. THE RETENTION DISK SHALL BE REMOVED PRIOR TO THE POURING OF THE NEW SLAB.



LONGITUDINAL BUTT JOINT WHERE BRIDGE
END SLAB LANES ARE POURED SEPARATELY



LONGITUDINAL WEAKENED PLANE JOINT
WHERE BRIDGE END SLAB LANES ARE
POURED IN ONE OPERATION



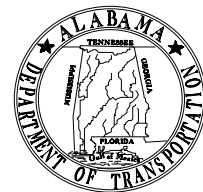
LONGITUDINAL BUTT JOINT WHERE BRIDGE
END SLAB IS WIDENED

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS

- Expanded CPJ-450 to two sheets, Includes adding Conc. Joint @ Existing Asphalt Pav't., added Epoxy Retention disk sketch & showing Initial cut @ silicone seal on 09-01-04 by J.F.T.
- Modified Longitudinal Silicone Seal Detail to show sealer will not fill saw cut below bond breaker. 7-10-19 by D.W.



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

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

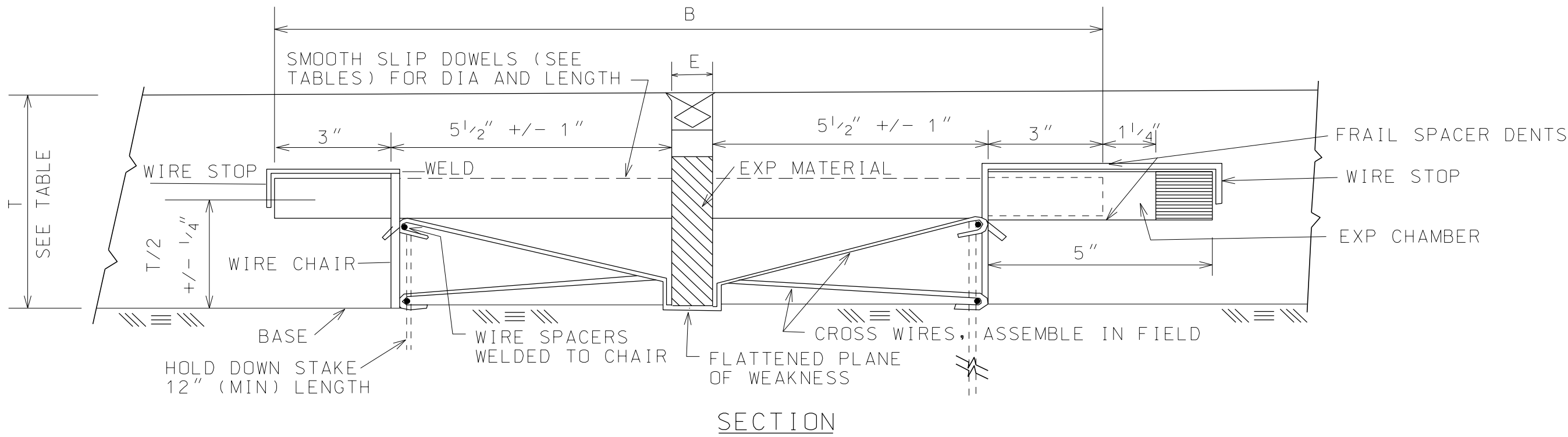
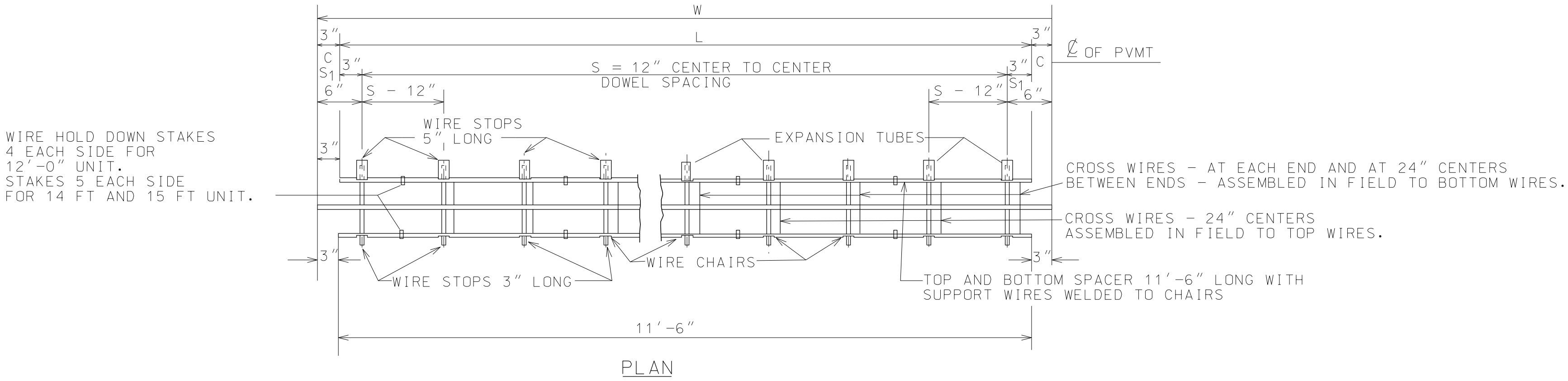
Bureau Std Engr: D.J.W.
DRAWN BY: _____ DATE DRAWN: 09-01-04

SPECIAL DRAWING NO
CPJ-450 (SHEET 2 OF 2)

INDEX NO
45014

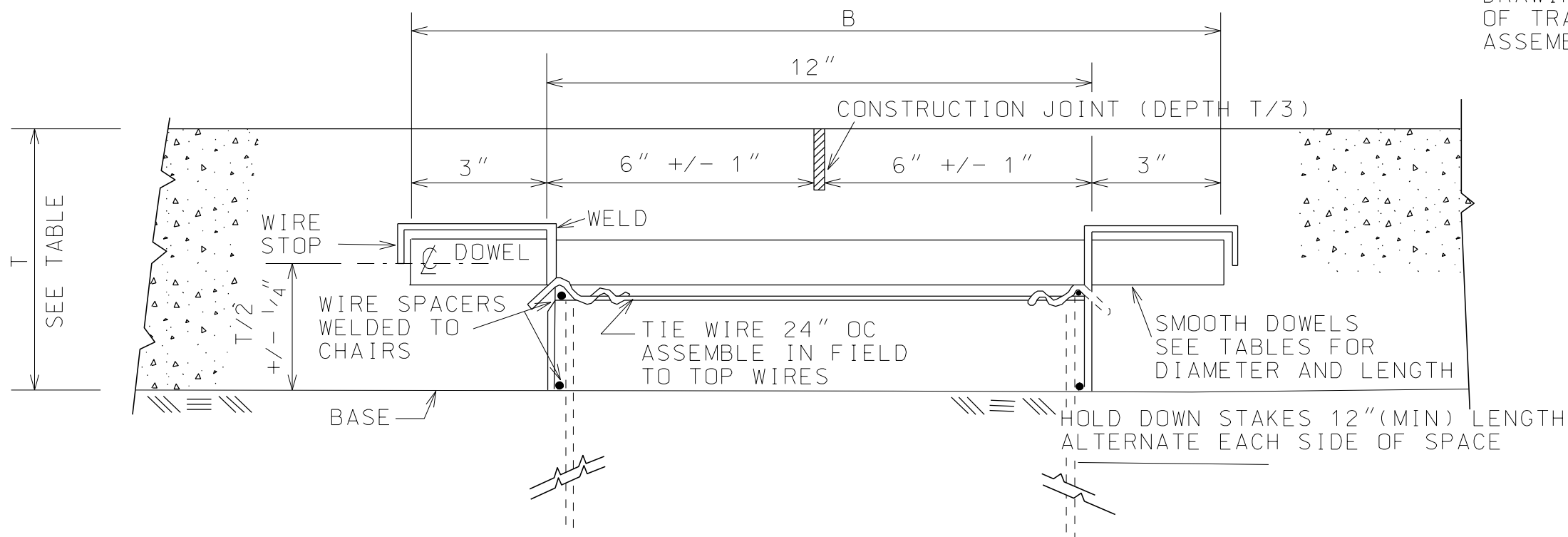
NOT TO SCALE

NOTE: THE GAUGE OR SIZE OF WIRES PROPOSED FOR USE IN CONSTRUCTION OF CHAIRS, SPACERS, STAKES, BRACES AND TIE DOWN WIRES, FOR DOWEL SUPPORT ASSEMBLIES SHALL BE SUCH THAT WILL PRODUCE A RIGID SUPPORT FOR THE DOWEL BARS IN THE VERTICAL AND HORIZONTAL PLANES, AND WILL HOLD THE DOWELS IN THEIR EXACT POSITION WHEN THE CONCRETE IS BE PLACED. FLIMSY OR UNSTABLE ASSEMBLIES THAT WILL NOT PRODUCE THE DESIRED RESULTS, WILL NOT BE APPROVED.



EXPANSION JOINT ASSEMBLY

CONTRACTION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8 IN	1 5/8 IN	1 5/8 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALABAMA DEPARTMENT OF TRANSPORATION)				
CONTRACTION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	10 IN	10 IN	10 IN
DOWEL DIAMETER	D	1 1/4 IN	1 1/4 IN	1 1/4 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALABAMA DEPARTMENT OF TRANSPORTATION)				



SECTION
CONTRACTION JOINT ASSEMBLY

EXPANSION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8 IN	1 5/8 IN	1 5/8 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
THICKNESS OF EXPANSION MATERIAL	E	1 IN	1 IN	1 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALABAMA DEPARTMENT OF TRANSPORTATION)				
EXPANSION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	10 IN	10 IN	10 IN
DOWEL DIAMETER	D	1 1/4 IN	1 1/4 IN	1 1/4 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
THICKNESS OF EXPANSION MATERIAL	E	1 IN	1 IN	1 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALABAMA DEPARTMENT OF TRANSPORTATION)				

GENERAL NOTES

- SHEETS NO DSA-450 (1 OF 3) (2 OF 3) AND (3 OF 3) ARE NOT INTENDED FOR USE AS WORKING DRAWINGS FOR THE MANUFACTURE OF DOWEL SUPPORT ASSEMBLIES, BUT ARE FURNISHED TO INDICATE TO THE CONTRACTOR THE VARIOUS TYPES OF ASSEMBLIES THAT WILL BE APPROVED FOR USE. THE CARDINAL REQUIREMENTS FOR APPROVAL OF DOWEL ASSEMBLIES IS A SUPPORT THAT WILL HOLD THE DOWEL BAR RIGIDLY IN PLACE, TRULY PARALLEL TO THE LONGITUDINAL AXIS OF PAVEMENT, CORRECTLY SPACED AT THE EXACT CENTER OF THE PAVEMENT.
- DOWEL BAR ALIGNMENT TOLERANCE IS 1/4" PER 12" LENGTH IN A HORIZONTAL, VERTICAL OR LONGITUDINAL AXIS.
- EACH OF THE THREE DRAWINGS HAVE THE SAME SET OF TABLES THAT FURNISH STANDARD REQUIREMENTS FOR DOWEL LENGTHS, DIAMETERS, SPACING AND LOCATION OF DOWELS IN THE PAVEMENT FOR BOTH EXPANSION AND CONTRACTION JOINTS.
- IT IS THE CONTRACTOR'S OPTION TO USE A TYPE OF ASSEMBLY OTHER THAN THOSE SHOWN ON THESE DRAWINGS IF HE ELECTS, PROVIDED IT WILL PRODUCE THE DESIRED RESULTS, MEETS REQUIREMENTS OF TABLES SHOWN ON THE DRAWING AND CONFORM WITH REQUIREMENTS OF THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS REGARDING DOWEL SUPPORT ASSEMBLIES.

* PRECOATED DOWELS MAY BE USED

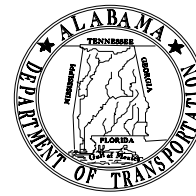
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS

1. Added to CADD on 05-03-99 by J.F.T.

2. Replaced 9" thick slab with 13" slab chart & added note numbering and Note No. 2 on 09-10-04 by J.F.T.



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

DESIGN BUREAU SPECIAL DRAWING

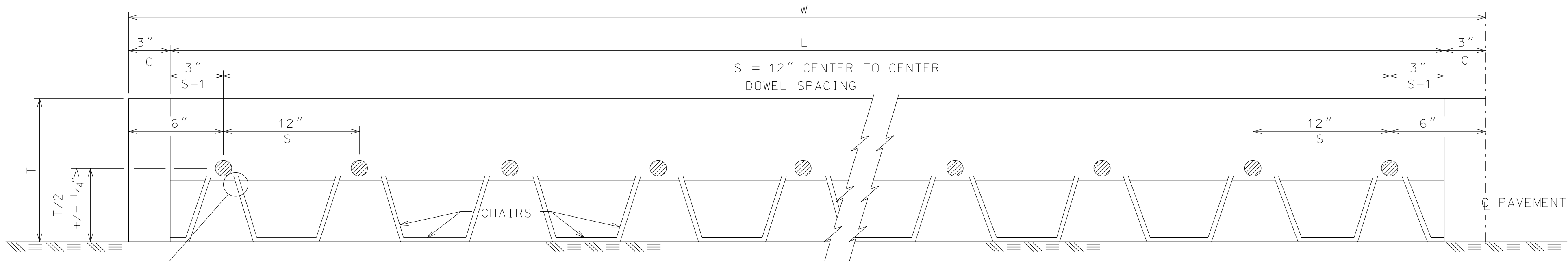
DOWEL SUPPORT ASSEMBLY FOR CONCRETE PAVEMENT FOR 10" & 13" THICK SLABS

Bureau Std Engr: D.J.W.
DRAWN BY: _____ DATE DRAWN: 04-04-77

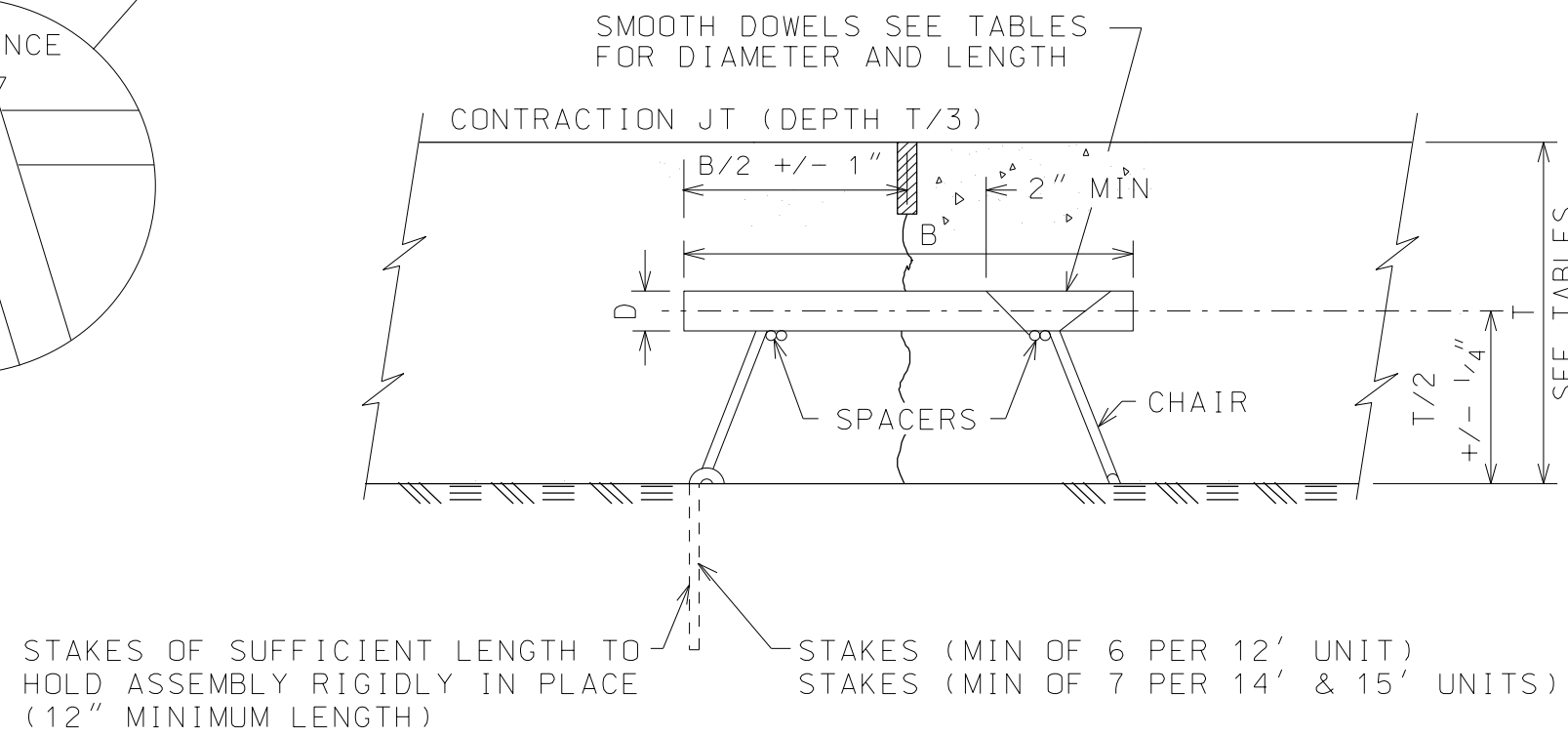
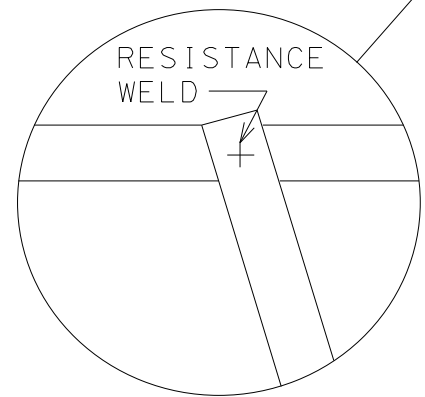
SPECIAL DRAWING NO
DSA-450 (SHEET 1 OF 3)

INDEX NO
45017

NOT TO SCALE

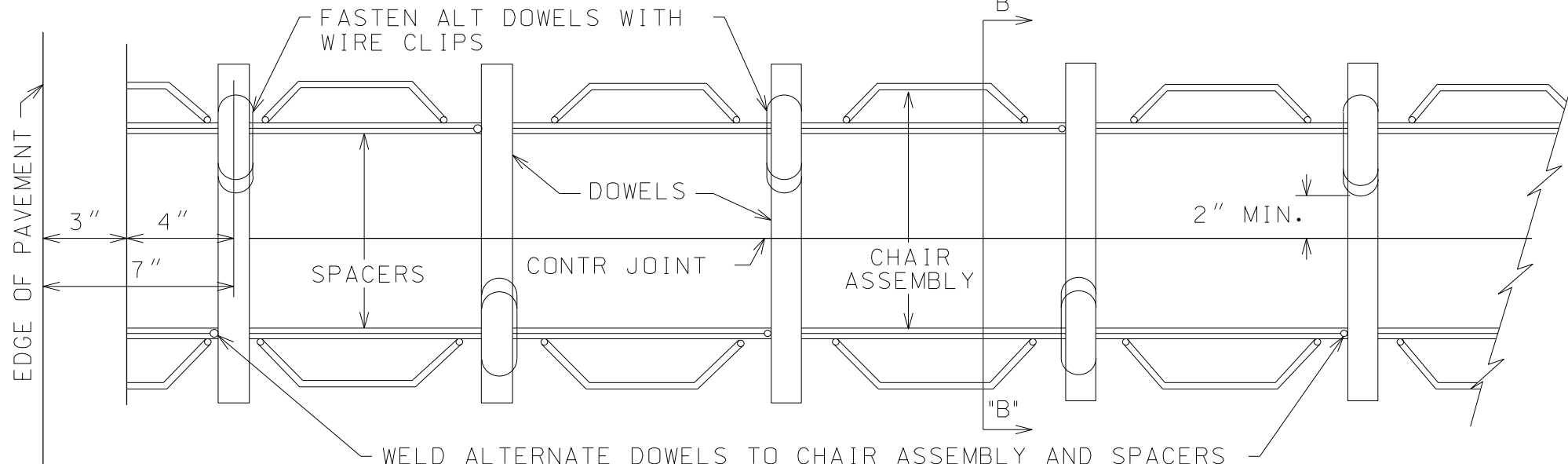


SIDE VIEW

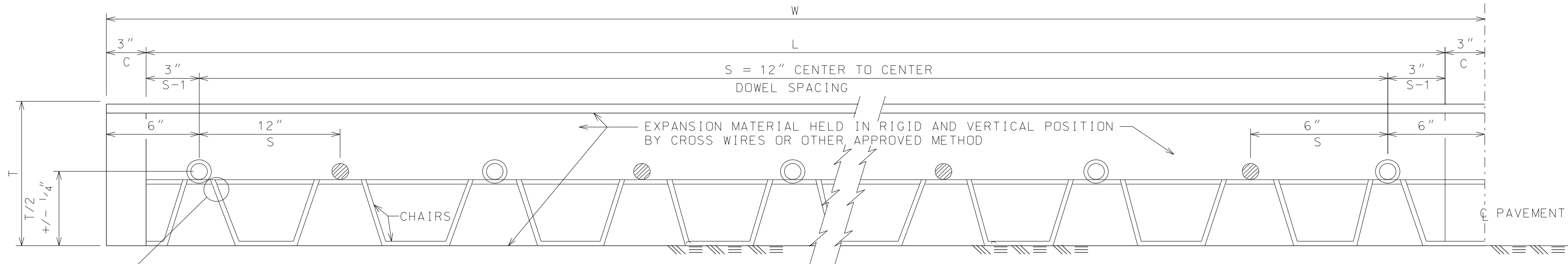


SECTION "B-B"

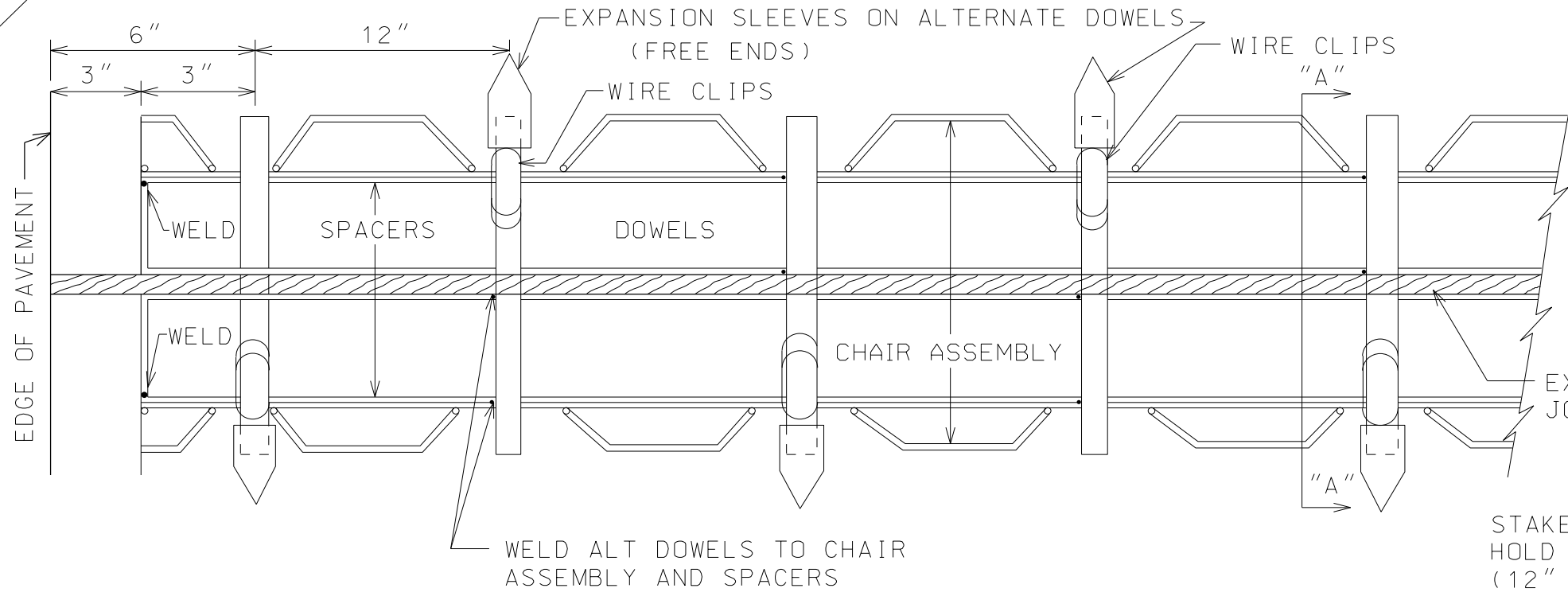
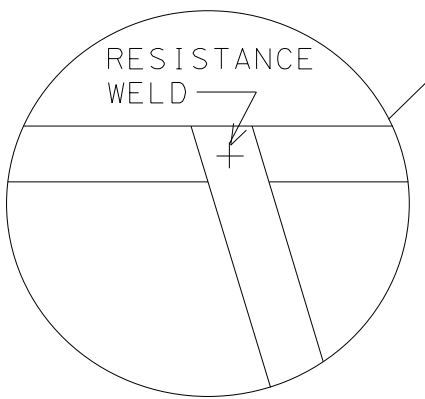
CONTRACTION JOINT ASSEMBLY



PLAN

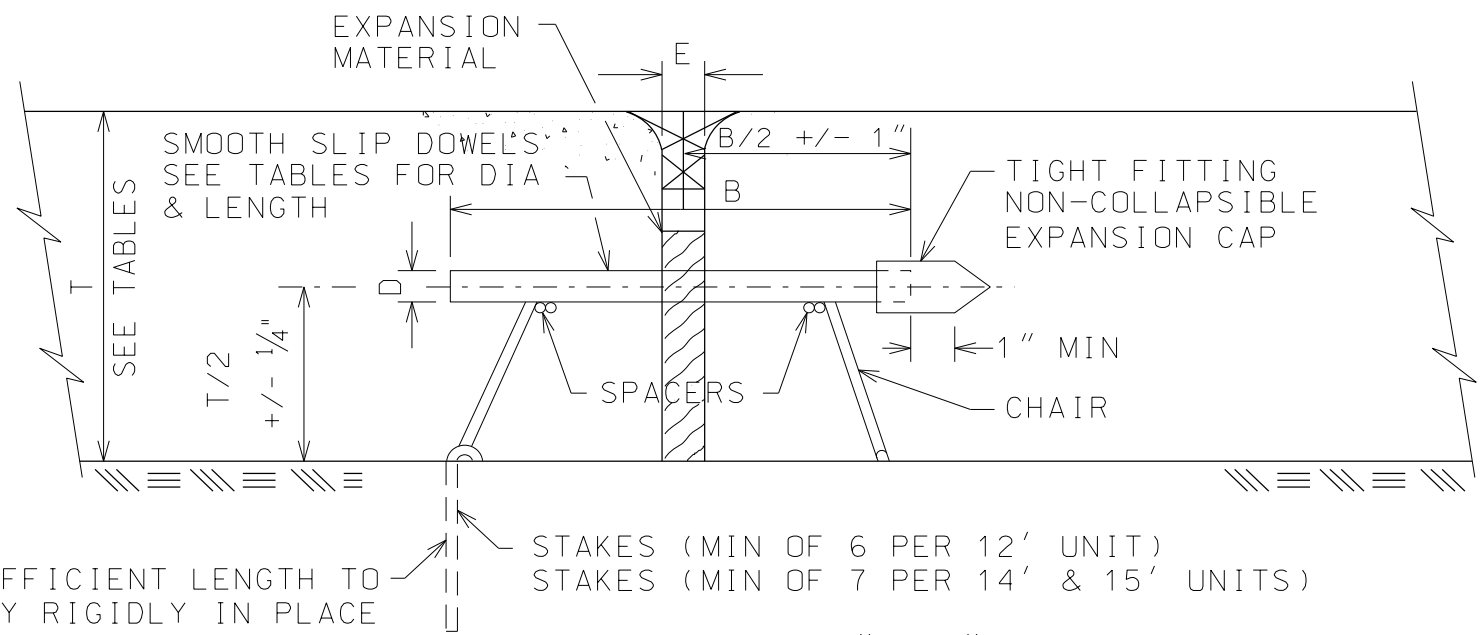


SIDE VIEW



PLAN

EXPANSION JOINT ASSEMBLY



SECTION "A-A"

STAKES OF SUFFICIENT LENGTH TO HOLD ASSEMBLY RIGIDLY IN PLACE (12" MINIMUM LENGTH)

NOTE:

THE GAUGE OR SIZE OF WIRES PROPOSED FOR USE IN CONSTRUCTION OF CHAIRS, SPACERS, STAKES, BRACES AND TIE WIRES FOR DOWEL SUPPORT ASSEMBLIES SHALL BE SUCH THAT WILL PRODUCE A RIGID SUPPORT FOR THE DOWEL BARS IN THE VERTICAL AND HORIZONTAL PLANES, AND WILL HOLD THE DOWELS IN THEIR EXACT POSITION WHEN THE CONCRETE IS BEING PLACED. FLIMSY OR UNSTABLE ASSEMBLIES THAT WILL NOT PRODUCE THE DESIRED RESULTS, WILL NOT BE APPROVED.

CONTRACTION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING-END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8" IN	1 5/8" IN	1 5/8" IN
DOWEL LENGTH	B	18 IN	18 IN.	18 IN

* DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)

CONTRACTION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING-END OF UNIT	S-1	3 IN	3 IN	3 IN
THICKNESS OF PAVING SLAB	T	10 IN	10 IN	10 IN
DOWEL DIAMETER	D	1 1/4 IN	1 1/4 IN	1 1/4 IN
DOWEL LENGTH	B	18 IN	10 IN	10 IN

* DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)

EXPANSION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
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THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8 IN	1 5/8 IN	1 5/8 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
THK. OF EXPANSION MATL.	E	1 IN	1 IN	1 IN

* DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)

EXPANSION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
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THICKNESS OF PAVING SLAB	T	10 IN	10 IN	10 IN
DOWEL DIAMETER	D	1 1/4 IN	1 1/4 IN	1 1/4 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
THK OF EXPANSION MATL	E	1 IN	1 IN	1 IN

* DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)

*PRECOATED DOWELS MAY BE USED

--SPECIFICATIONS--

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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- REVISIONS
- Added to CAD00 on 05-04-99 by J.F.T.
 - Replaced 9" thick slab with 13" slab chart on 09-10-04 by J.F.T.



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

DESIGN BUREAU SPECIAL DRAWING

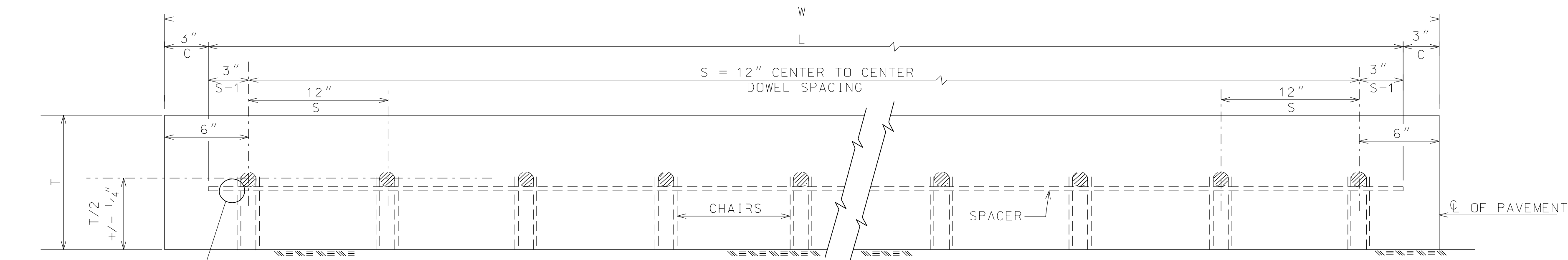
DOWEL SUPPORT ASSEMBLY
FOR CONCRETE PAVEMENT
FOR 10" & 13" THICK SLABS

Bureau Std Engr: D.J.W.
DRAWN BY: _____ DATE DRAWN: 04-04-77

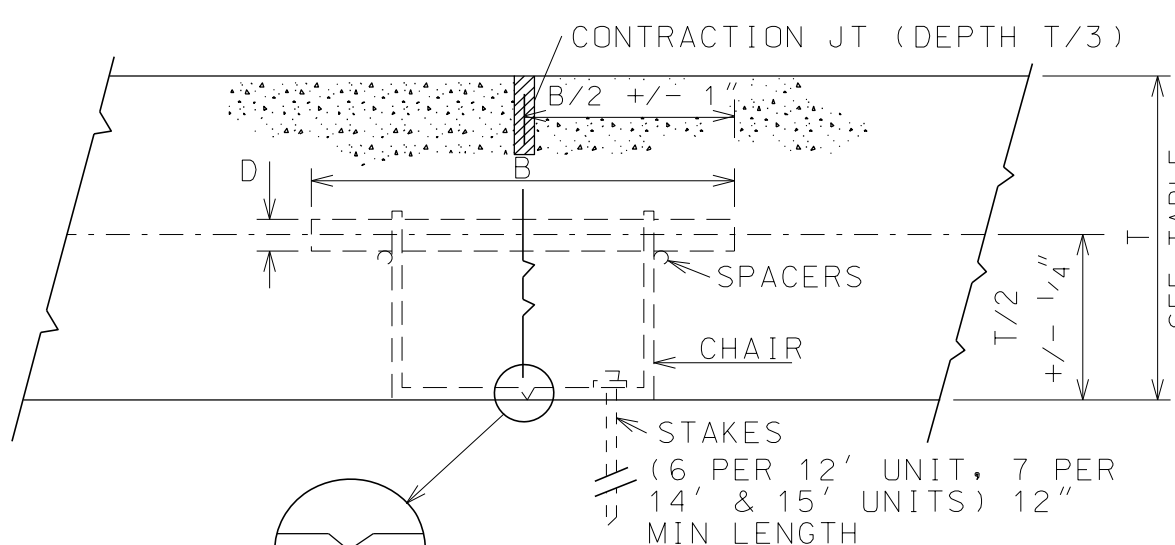
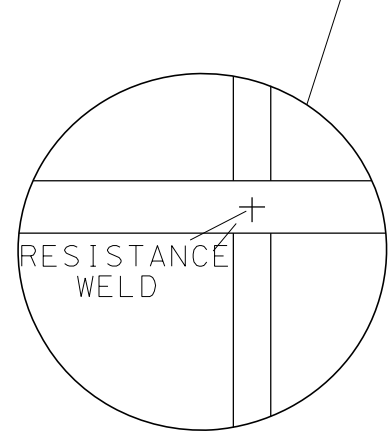
SPECIAL DRAWING NO
DSA-450 (SHEET 2 OF 3)

INDEX NO
45018

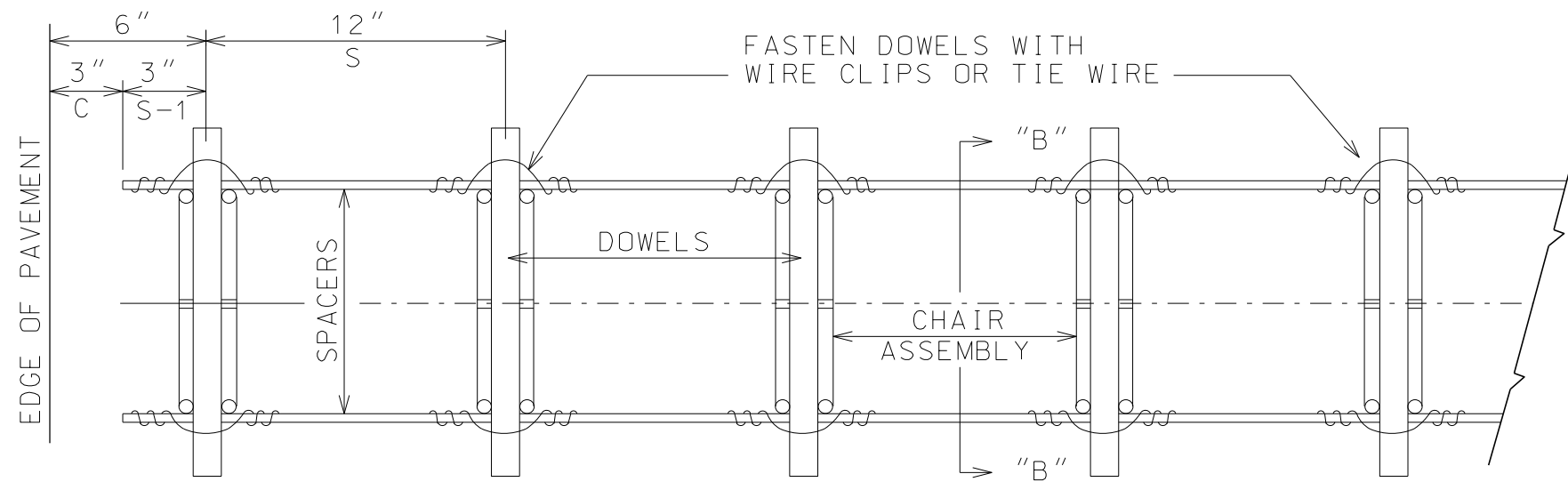
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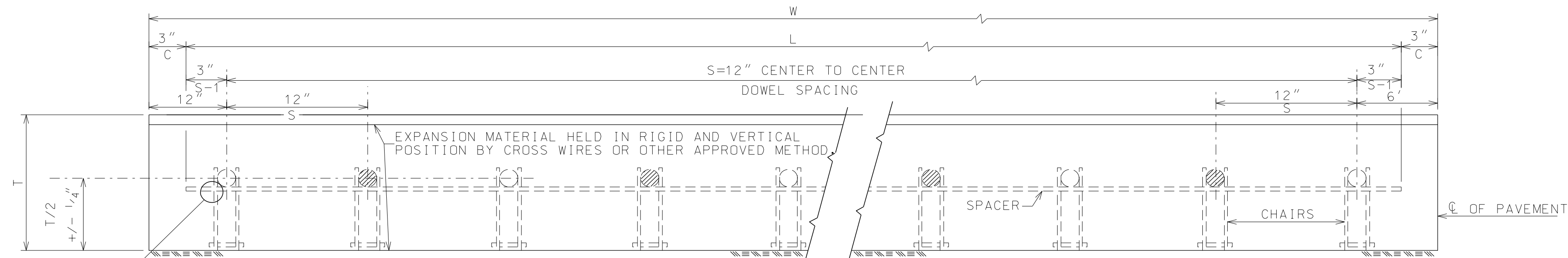
SIDE VIEW



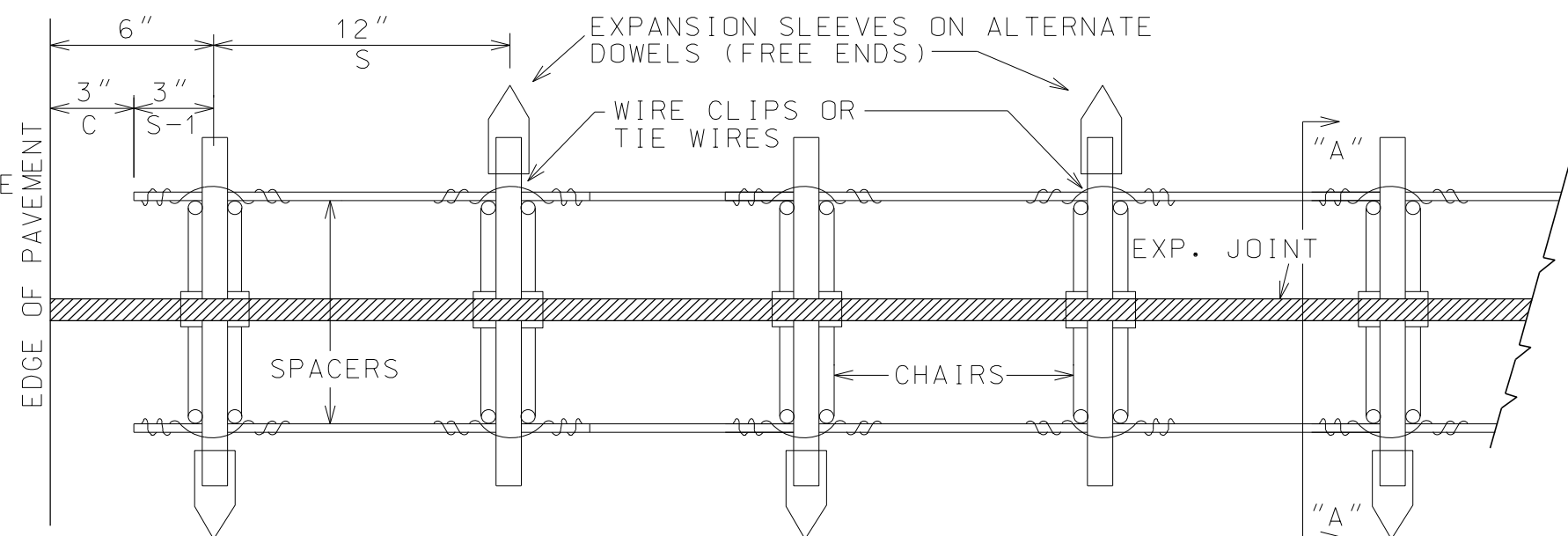
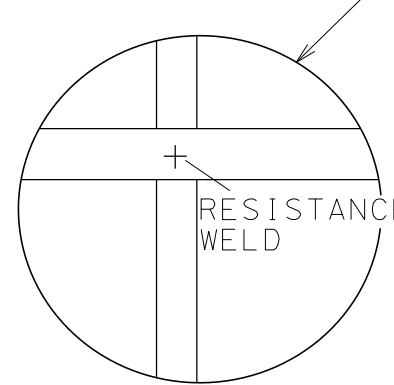
SECTION "BB"



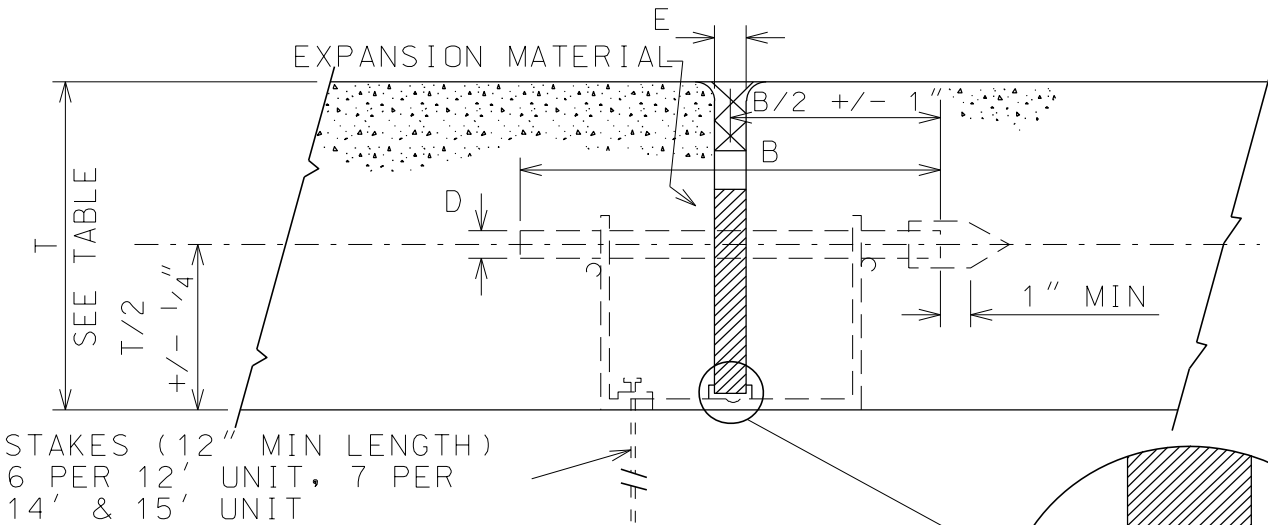
CONTRACTION ASSEMBLY



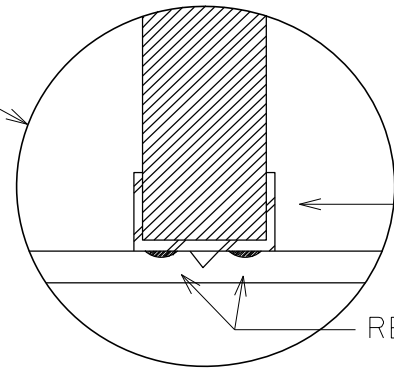
SIDE VIEW



PLAN



SECTION "AA"



NOTE:
THE GAUGE OR SIZE OF WIRES PROPOSED FOR USE IN CONSTRUCTION OF CHAIRS, SPACERS, STAKES, BRACES AND TIE WIRES, FOR DOWEL SUPPORT ASSEMBLIES SHALL BE SUCH THAT WILL PRODUCE A RIGID SUPPORT FOR THE DOWEL BARS IN THE VERTICAL AND HORIZONTAL PLANES, AND WILL HOLD THE DOWELS IN THEIR EXACT POSITION WHEN THE CONCRETE IS BEING PLACED. FLIMSY OR UNSTABLE ASSEMBLIES THAT WILL NOT PRODUCE THE DESIRED RESULTS WILL NOT BE APPROVED.

EXPANSION ASSEMBLY

SEE GENERAL NOTES, SHEET DSA-450(1 OF 3)

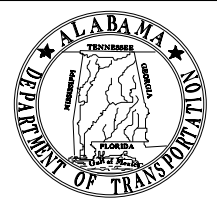
CONTRACTION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)				
CONTRACTION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	16 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)				
THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8 IN	1 5/8 IN	1 5/8 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN

EXPANSION ASSEMBLY FOR 13" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
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DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)				
EXPANSION ASSEMBLY FOR 10" CONCRETE PAVEMENT				
DIMENSION DESIRED	MARK	DIMENSION	DIMENSION	DIMENSION
WIDTH OF PAVING (STRIP)	W	12 FT	14 FT	15 FT
LENGTH OF UNIT	L	11 FT 6 IN	13 FT 6 IN	14 FT 6 IN
CLEARANCE	C	3 IN	3 IN	3 IN
DOWEL SPACING	S	12 IN	12 IN	12 IN
DOWEL SPACING - END OF UNIT	S-1	3 IN	3 IN	3 IN
*DOWEL COATING (CURRENT SPECIFICATIONS ALDOT)				
THICKNESS OF PAVING SLAB	T	13 IN	13 IN	13 IN
DOWEL DIAMETER	D	1 5/8 IN	1 5/8 IN	1 5/8 IN
DOWEL LENGTH	B	18 IN	18 IN	18 IN
THICKNESS OF EXPANSION MATERIAL	E	1 IN	1 IN	1 IN

* PRECOATED DOWELS MAY BE USED.

--SPECIFICATIONS--

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS 1. Added to CADD on 05-04-99 by J.F.T. 2. Replaced 9" thick slab with 13" slab chart on 09-10-04 by J.F.T.		
 ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050		
DESIGN BUREAU SPECIAL DRAWING		
DOWEL SUPPORT ASSEMBLY FOR CONCRETE PAVEMENT FOR 10" & 13" THICK SLABS		
SPECIAL DRAWING NO DSA-450 (SHEET 3 OF 3)		INDEX NO 45019
Bureau Std Engr: D.J.W. DRAWN BY: _____ DATE DRAWN: 04-04-77		

NOT TO SCALE

