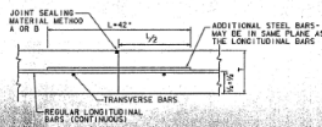
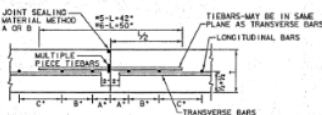


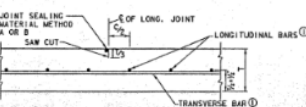
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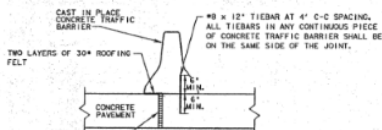
TRANSVERSE CONSTRUCTION JOINT  
SECTION X - X



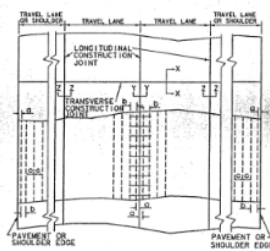
LONGITUDINAL CONSTRUCTION JOINT  
SECTION Y - Y



LONGITUDINAL CONTRACTION JOINT  
SECTION Z - Z



FREE LONGITUDINAL JOINT DETAIL



TYPICAL PAVEMENT LAYOUT

SLAB THICKNESS AND BAR SIZE	REGULAR REINFORCEMENT	FIRST SPACING AT JOINT	SECOND SPACING FROM JOINT	ADDITIONAL REINFORCEMENT AT TRANSVERSE CONST. JOINT
8" 6	12"	12"	12"	12"
10" 6	12"	12"	12"	12"
12" 6	12"	12"	12"	12"
14" 6	12"	12"	12"	12"
16" 6	12"	12"	12"	12"

SLAB THICKNESS	8"	10"	12"	14"	16"
#5 BAR AT 36"	62	55	45	41	38
#5 BAR AT 24"	93	83	74	68	62
#6 BAR AT 36"	88	78	70	64	59
#6 BAR AT 24"	126	117	105	96	88

TRANSVERSE STEEL AND TIEBAR SPACINGS SHALL BE BASED ON THE FOLLOWING FORMULAE.

FOR #5 BARS  $W = \frac{17857 N}{T B}$   $W = \frac{25346 N}{T B}$

W - ALLOWABLE WIDTH OF PAVEMENT SLAB WIDTH IN FEET (MEASURED EDGE TO EDGE OR EDGE TO UNITED JOINT)

N - NUMBER OF LAYERS OF STEEL (1 OR 2)

T - THICKNESS OF SLAB IN INCHES

B - BAR SPACING IN INCHES

MAXIMUM B = 36"

MINIMUM B = 12"

## GENERAL NOTES

- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT, REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE" AND "REINFORCING STEEL."
- LONGITUDINAL AND TRANSVERSE BARS SHALL BE DEFORMED STEEL CONFORMING TO ASTM A-615 (GRADE 60) OR ASTM A-616 (GRADE 60+).
- DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS.
- SPICES SHALL BE A MINIMUM OF 33 TIMES THE NOMINAL STEEL DIAMETER.
- CONSOLIDATION WITH HAND-MANIPULATED MECHANICAL VIBRATORS IS REQUIRED ADJACENT TO ALL TRANSVERSE CONSTRUCTION JOINTS.
- THE DETAIL FOR THE JOINT SEALANT AND RESERVOIR WILL BE SHOWN IN CONCRETE PAVEMENT DETAIL, JOINT SEALANT.
- PAVEMENT WIDTHS OF MORE THAN 18' SHALL HAVE A LONGITUDINAL JOINT SECTION Z-Z OR Y-Y. THESE JOINTS SHALL BE LOCATED WITHIN 6' OF THE LANE LINE UNLESS THE JOINT LOCATION IS SHOWN ELSEWHERE ON THE PLANS.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.
- WITHIN ANY AREA BOUNDED BY TWO FEET OF PAVEMENT LENGTH MEASURED PARALLEL TO THE CENTERLINE AND TWELVE FEET OF WIDTH MEASURED PERPENDICULAR TO THE PAVEMENT CENTERLINE, NOT OVER 33% OF THE REGULAR LONGITUDINAL STEEL SHALL BE SPLICED.
- MULTIPLE PIECE TIEBARS SHALL BE USED AT LONGITUDINAL CONSTRUCTION JOINTS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- FOR THE 13" SLAB THICKNESS, WHEN STANDARD DETAIL CPCR(1)-94 IS INCLUDED IN THE PLANS, THE CONTRACTOR MAY CHOOSE EITHER THE ONE OR TWO LAYER PLACEMENT OF REINFORCING STEEL UNLESS OTHERWISE SPECIFIED.

## FOOTNOTE:

- ① WHEN MACHINE PLACING OF THE STEEL REINFORCEMENT IS USED, THE USE OF CHAIRS WILL NOT BE REQUIRED AND THE TRANSVERSE STEEL MAY BE PLACED ABOVE OR BELOW THE LONGITUDINAL STEEL. THE VERTICAL LOCATION OF THE BARS WILL BE APPROVED BY THE ENGINEER.

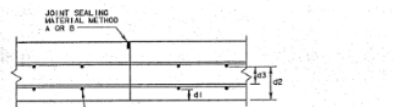
Texas Department of Transportation  
Design Division (Plans)

## CONCRETE PAVEMENT DETAILS CONTINUOUSLY REINFORCED STEEL BARS

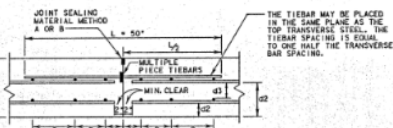
ONE LAYER PLACEMENT  
T-8, 9, 10, 11, 12, & 13 INCHES

CPCR(1)-94

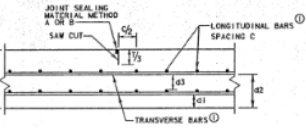
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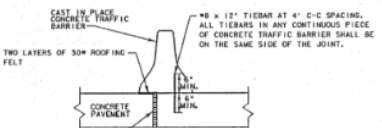
TRANSVERSE CONSTRUCTION JOINT  
SECTION X - X



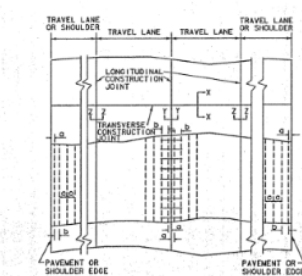
LONGITUDINAL CONSTRUCTION JOINT  
SECTION Y - Y



LONGITUDINAL CONTRACTION JOINT  
SECTION Z - Z



FREE LONGITUDINAL JOINT DETAIL



TYPICAL PAVEMENT LAYOUT

SLAB THICKNESS AND BAR SIZE	REGULAR REINFORCEMENT	FIRST SPACING AT JOINT	SECOND SPACING FROM JOINT	ADDITIONAL REINFORCEMENT AT TRANSVERSE CONST. JOINT
8" 6	12"	12"	12"	12"
10" 6	12"	12"	12"	12"
12" 6	12"	12"	12"	12"
14" 6	12"	12"	12"	12"
16" 6	12"	12"	12"	12"

SLAB THICKNESS	13"	14"	15"
#5 BAR AT 36"	76	70	66
#5 BAR AT 30"	91	85	79
#6 BAR AT 36"	108	100	93
#6 BAR AT 30"	139	120	112

THICKNESS (INCHES)	8"	10"	12"
INCHES TOLERANCE (+/- 0.5")	2.50	6.00	2
INCHES TOLERANCE (+/- 0.5")	3.25	6.75	2
INCHES TOLERANCE (+/- 0.5")	4.00	7.50	2

TRANSVERSE STEEL AND TIEBAR SPACINGS SHALL BE BASED ON THE FOLLOWING FORMULAE.

FOR #5 BARS  $W = \frac{17857 N}{T B}$   $W = \frac{25346 N}{T B}$

W - ALLOWABLE WIDTH OF PAVEMENT SLAB WIDTH IN FEET (MEASURED EDGE TO EDGE OR EDGE TO UNITED JOINT)

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T - THICKNESS OF SLAB IN INCHES

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MAXIMUM B = 36"

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- MULTIPLE PIECE TIEBARS SHALL BE USED AT LONGITUDINAL CONSTRUCTION JOINTS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- FOR THE 13" SLAB THICKNESS, WHEN STANDARD DETAIL CPCR(2)-94 IS INCLUDED IN THE PLANS, THE CONTRACTOR MAY CHOOSE EITHER THE ONE OR TWO LAYER PLACEMENT OF REINFORCING STEEL UNLESS OTHERWISE SPECIFIED.

## FOOTNOTE:

- ① WHEN MACHINE PLACING OF THE STEEL REINFORCEMENT IS USED, THE USE OF CHAIRS WILL NOT BE REQUIRED AND THE TRANSVERSE STEEL MAY BE PLACED ABOVE OR BELOW THE LONGITUDINAL STEEL. THE VERTICAL LOCATION OF THE BARS WILL BE APPROVED BY THE ENGINEER.

Texas Department of Transportation  
Design Division (Plans)

## CONCRETE PAVEMENT DETAILS CONTINUOUSLY REINFORCED STEEL BARS

TWO LAYER PLACEMENT  
T-13, 14, & 15 INCHES

CPCR(2)-94

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