

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1 & 1A	TITLE SHEET
2, 2A, 2B	ESTIMATE & QUANTITY SHEETS
3, 3A-2G	SPECIFICATION DATA
4-5	SUMMARY SHEETS
6-8	TRAFFIC CONTROL PLANS
9	TYPICAL SECTIONS
10	REMOVAL PLAN
11	PAVING PLAN & PROFILE
12	GRADING PLAN
13	ROADWAY DETAILS
14	DRAINAGE AREA MAP
15	DRAINAGE CALCULATIONS AND PROFILES
16 & 16A	DRAINAGE LAYOUT
17 & 17A	DRAINAGE DETAILS
18	TxDOT SW3P SUMMARY
19	STORM WATER POLLUTION PREVENTION PLAN
20	PERMANENT PAVEMENT MARKING AND SIGNING
21-22	OMITTED
23	BRIDGE LAYOUT
24	EST. QUANTITY SUMMARY AND MISC. DETAILS
25-26	ABUTMENT 1
27-28B	ABUTMENT 3
29	INTERIOR BENT 2
30	SLAB DESIGN
31-38	BOX BEAM DETAILS
39	ILLUMINATION LAYOUT

## STATE STANDARD SHEETS

SHEET NO.	DESCRIPTION
48-49	BAS-94
50	BC NOTES-97
51-60	BC(1-10)-97
61	CPCD-94
62	CBR (P&P)-87
63	CTB(2)-92
64	QUAD-97
65	JS-94
66	MBGF-94
67	TB(BMGF)-92
68	TCP NOTES-97
69-69A	TCP(6-1)-97
70	TCP(2-4)-97
71	TCP(2-6)-97
72	TCP(3-1)-97
73	TCP(6-7)-97
74	PM(1)-95
75	WZ (TFDS)-97
76	WZ (SPIS)-96
77	WZ(STPM)-97
78	WZ(BD)-97
79	IE(2)-95
80	IM(1)-95
81	IM(2)-93
82	IM(4)-97
83-85	SMD(1-1)-97, SMD(1-2)-97, SMD(1-3)-97
86-88	SMD(2-1)-97, SMD(2-2)-95, SMD(2-3)-95
89	SMD(8W1)
90	SMD(8W2)
91	SL(1)-95
92	SL(MV)-93
93	SWW(1)
94	SB(SWL-1)
95	MA-C-96, MA-C(1SLN)-96
96	EC(1)-93
97	EC(3)-93
98	ED(1 THRU 5)-93
99	RID(4)-93
100	TRAFFIC RAIL T501
101-105	COMBINATION RAIL TYPE C4(A)
106	SEJ-(A)
107-108	TS-FD-96

## DISTRICT STANDARD SHEETS

SHEET NO.	DESCRIPTION
40-41	CURB INLET, TYPE 1
42	DROP INLET, TYPE C
43	PAVEMENT MARKINGS (WORDS AND ARROWS)
44-45	SMA(80)(DAL)
46	SPECIAL SIGN MOUNT DETAILS (SHT. 5 OF 5)
47	MANHOLE DETAILS
113	PB-D-4-34
114	PB-D-5-34
115	BPA-1
116	TCP(6-2)-97

Omit Sheets 94, 96

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN  
SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING  
APPLICABLE TO THIS PROJECT.

*John F. Becker* 8/19/97  
DATE

# STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

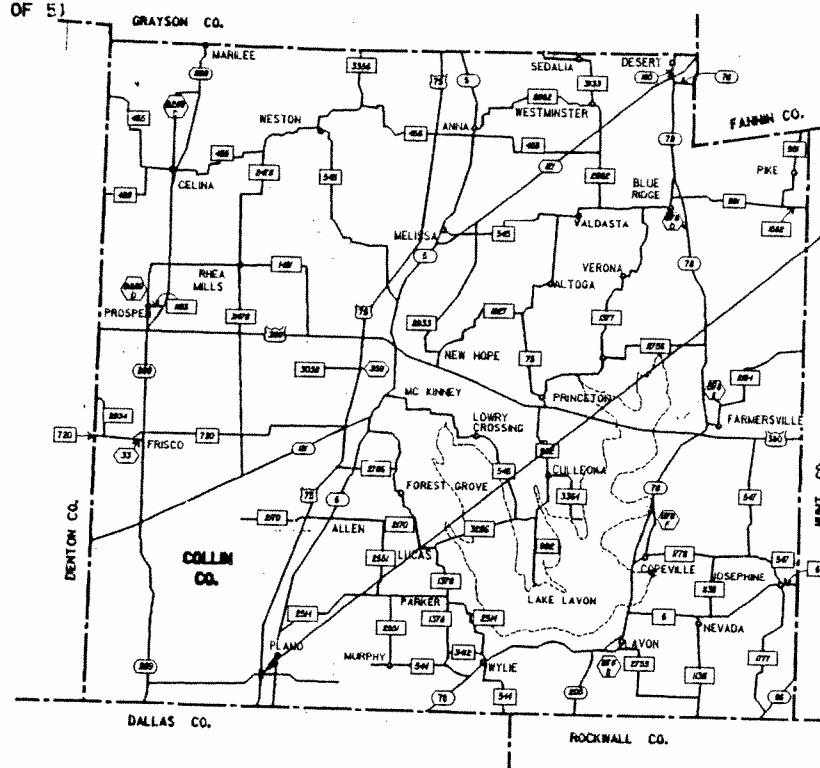
## PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

### FEDERAL-AID PROJECT NO. CM 97 (338) U.S. 75: PLANO PARKWAY U-TURN COLLIN COUNTY

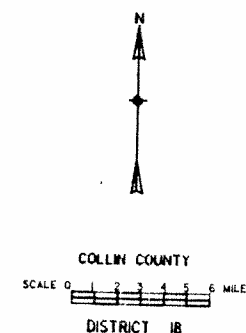
NET LENGTH OF PROJECT - 0.00 FEET = 0.00 MILES

FOR THE CONSTRUCTION OF MISCELLANEOUS WORK CONSISTING OF:  
GRADING, DRAINAGE STRUCTURES, STORM SEWERS, CONCRETE  
PAVING, BRIDGE, PAVEMENT MARKINGS, AND SIGNING.

NO EXCEPTIONS  
NO EQUATIONS  
NO RAILROAD CROSSINGS



PROJECT CM 97 (338)  
BEGIN CONTROL 0047-06-104  
US 75 STA. 586+29.40  
REF. MARKER 252+0.768

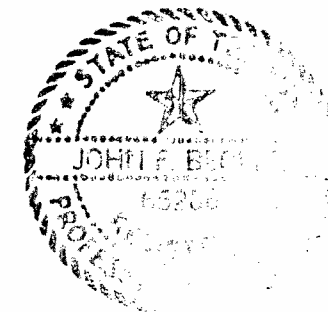


FED. AID PROJECT NO.	STATE PROJECT NO.	SHEET NO.
6	CM 97 (338)	1
STATE	COUNTY	
TEXAS	DALLAS	COLLIN
CONTRACT NO.	SECTION	JOB
47	6	104
		US 75

DESIGN SPEED = 30 MPH

#### NOTE:

THE CONTRACTOR SHALL PROVIDE AND ERECT BARRICADES AND  
WARNING SIGNS IN ACCORDANCE WITH BC-(1) THRU (10)-1997  
AT POINTS INDICATED AND AT OTHER POINTS AS DIRECTED  
BY THE ENGINEER.



CONCURRENCE 8-11-97 SUBMITTED FOR LETTING 8/12/97  
*Alan L. Schuch* *John F. Becker*  
CITY OF PLANO HNTB, JOHN F. BECKER, P.E.  
PROJECT MANAGER

#### TEXAS DEPARTMENT OF TRANSPORTATION

SUBMITTED FOR LETTING 8-20-97 APPROVED FOR LETTING  
*Lay O. Hester* *John F. Becker*  
PROJECT ENGINEER DIRECTOR, TRAFFIC  
OPERATIONS DIVISION

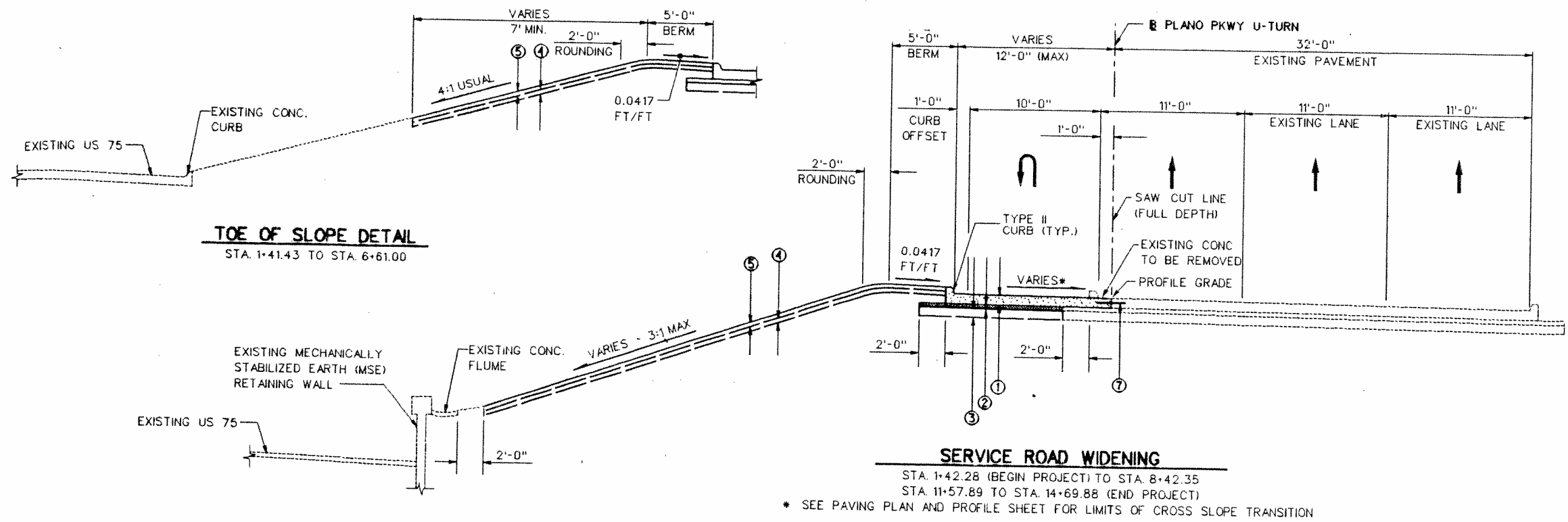
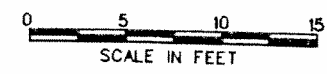
SUBMITTED FOR LETTING 8/20/97  
*Rebecca L. Smith*  
AREA ENGINEER

RECOMMENDED FOR LETTING 9-2-97  
*Charles R. Tucker*  
DIRECTOR OF TRANSPORTATION  
PLANNING & DEVELOPMENT

RECOMMENDED FOR LETTING 9/2/97 APPROVED FOR LETTING 9/9/97  
*Ray Wilson* *Elizabeth H. Hester*  
DISTRICT ENGINEER DIRECTOR, DESIGN DIVISION

#### NOTE:

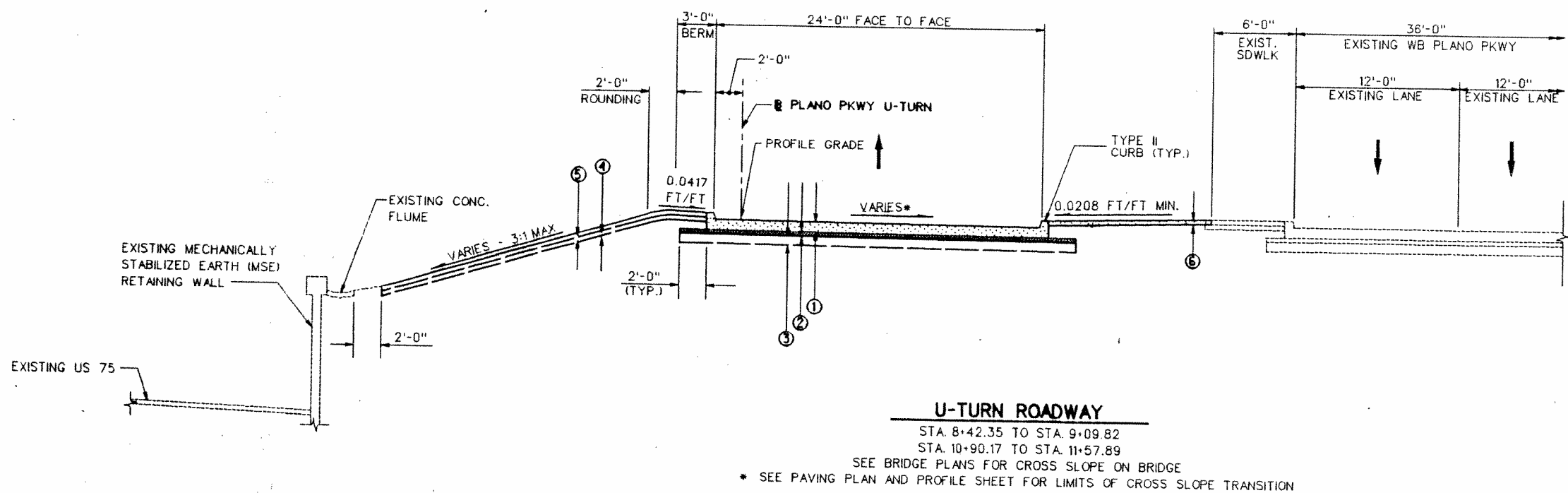
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION,  
MARCH 1993, AND THE CONTRACT PROVISIONS LISTED AND DATED AS  
FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS  
FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273,  
DECEMBER 1993).



**LEGEND**

- ① 9" CONCRETE PAVEMENT (PCPD)
- ② 5" 550#/SY. ASPHALT CONC. PVMT. (TY. B)
- ③ 8" LIME STABILIZED SUBGRADE (±4% LIME)
- ④ 4" TOPSOIL
- ⑤ BLOCK SOD & FERTILIZER
- ⑥ 4" CONCRETE MEDIAN PAVEMENT ★
- ⑦ ANCHOR JOINT

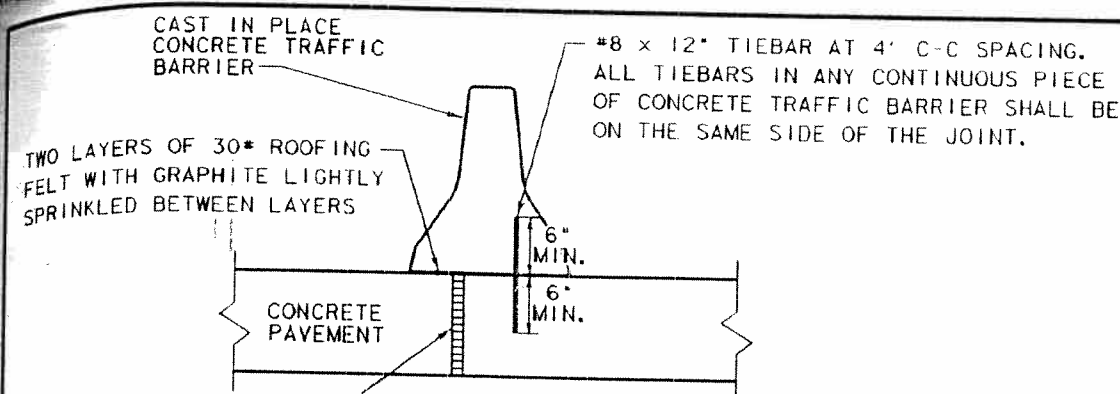
★ REINFORCED #3 @ 18" C-C



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PHILLIP T. RABALAIS, P.E. 81330 ON AUGUST 15, 1997. ALTERATION OF A SEALED DOCUMENT WITHOUT NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

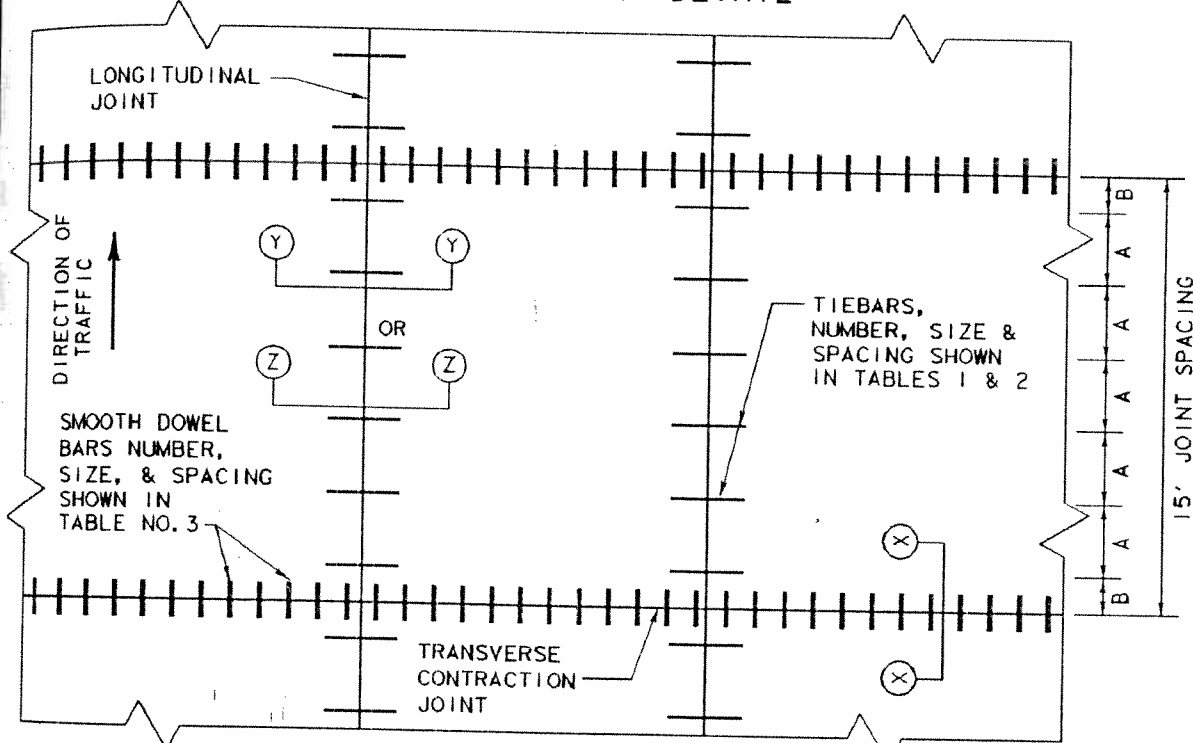
NO.	DATE	REVISION	APPROV.
<b>HNTB</b> ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
<b>Texas Department of Transportation</b>			
PLANO PARKWAY U-TURN OVER U.S. 75			
<b>TYPICAL SECTIONS</b>			
Design: GAB	Check: PTR	STATE: TEXAS	FEDERAL AID PROJECT NO.: CM 97 (338)
		HIGHWAY NO.: 75	

9



FREE LONGITUDINAL JOINT WITH NO TIEBARS. LOCATION OF THE JOINT WILL BE AS DIRECTED BY THE ENGINEER FORMED WITH PREFORMED FIBER BOARD OR ASPHALT BOARD IN ACCORDANCE WITH ITEM "JOINT SEALANT AND FILLERS".

### FREE LONGITUDINAL JOINT DETAIL

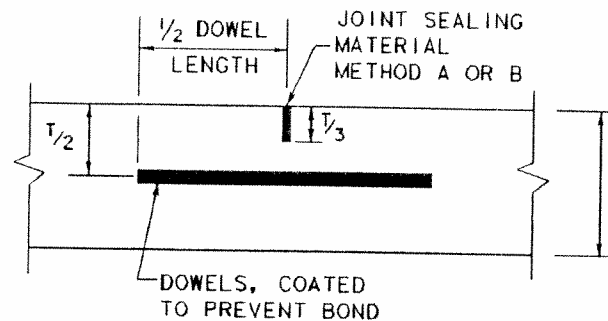


### PAVEMENT DETAIL LAYOUT

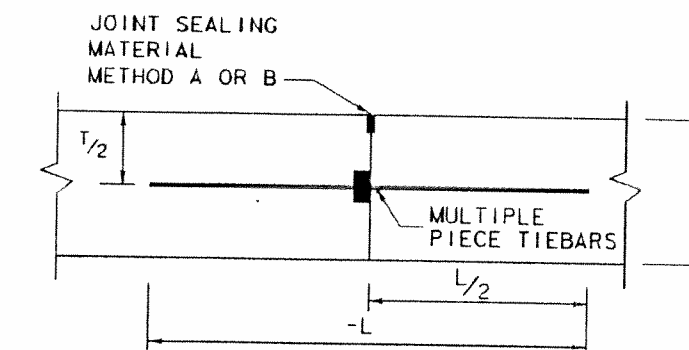
BAR LENGTH, "L" INCHES	BAR SIZE	CONCRETE SLAB THICKNESS "T" INCHES	DISTANCE FROM THE LONGITUDINAL JOINT TO THE NEAREST LONGITUDINAL FREE EDGE			
			< OR = 16'	< OR = 24'	< OR = 34'	< OR = 50'
42	#5 (5/8")	8	5	5	6	9
		9	5	5	7	10
		10	5	5	7	11
		11	5	6	8	12
		12	5	6	9	13
		13	5	7	9	13
		14	6	7	10	NA
50	#6 (3/4")	15	6	8	11	NA
		8	5	5	5	6
		9	5	5	5	7
		10	5	5	5	8
		11	5	5	6	8
		12	5	5	6	9
		13	5	5	7	10
		14	5	5	7	10
		15	5	6	8	11

THE DISTANCE TO THE FREE EDGE WILL BE DETERMINED BY THE ENGINEER AND THE DISTANCE WILL BE BASED ON THE NOMINAL WIDTHS OF THE LANES AND SHOULDERS PLUS ANY TIED RAMPS OR CONNECTING ROADWAYS.

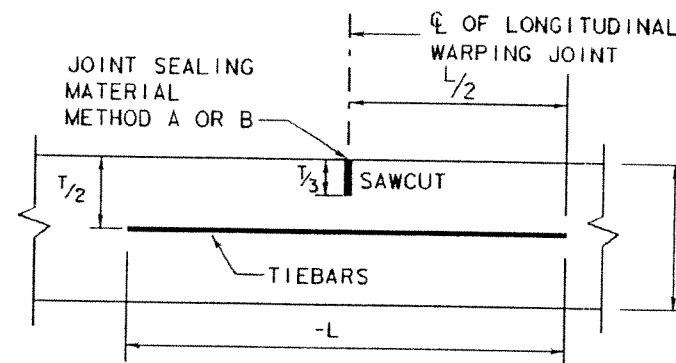
SPACING REQUIREMENT FOR 15' SLAB FOR REQUIRED NUMBER OF BARS		
REQUIRED NO. OF BARS	REGULAR SPACING "A" INCHES	FIRST AT JOINT "B" INCHES
5	36	18
6	30	15
7	25	15
8	21	16.5
9	18	18
10	16	18
11	15	15
12	13	18.5
13	12	18



### TRANSVERSE CONTRACTION JOINT SECTION X-X



### LONGITUDINAL CONSTRUCTION JOINT SECTION Y-Y



### LONGITUDINAL WARPING JOINT SECTION Z-Z

T, IN.	DOWELS (SMOOTH BARS)	
	SIZE AND LENGTH	AVERAGE SPACING (INCHES)
8	1" x 18"	12
9	1 1/8" x 18"	12
10	1 1/4" x 18"	12
11	1 3/8" x 18"	12
12	1 1/2" x 18"	12
13	1 5/8" x 18"	12
14	1 3/4" x 18"	12
15	1 7/8" x 18"	12

### GENERAL NOTES

1. CONCRETE SLABS WIDER THAN 100' WITHOUT A FREE JOINT, ARE NOT COVERED BY THIS STANDARD.
2. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT" AND "REINFORCING STEEL."
3. DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS, AND CROWN CROSS SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
4. THE DETAIL FOR THE JOINT SEALANT AND RESERVOIR WILL BE SHOWN IN CONCRETE PAVEMENT DETAIL, JOINT SEALANT STANDARD (JS-94).
5. PAVEMENT WIDTHS IN EXCESS OF 16' SHALL BE PROVIDED WITH A LONGITUDINAL JOINT (SECTION Z-Z OR Y-Y). THESE JOINTS SHALL BE LOCATED WITHIN 6" OF THE LANE LINES UNLESS SHOWN ELSEWHERE ON THE PLANS.
6. THE JOINT BETWEEN OUTSIDE LANE AND SHOULDER SHALL BE A LONGITUDINAL WARPING JOINT (SECTION Z-Z) UNLESS OTHERWISE SHOWN IN THE PLANS.
7. THE SPACING BETWEEN TRANSVERSE JOINTS SHALL BE 15 FEET UNLESS OTHERWISE SHOWN IN THE PLANS.
8. WHERE A MONOLITHIC CURB IS SPECIFIED, THE JOINT IN THE CURB SHALL COINCIDE WITH PAVEMENT JOINTS AND MAY BE FORMED BY ANY MEANS APPROVED BY THE ENGINEER.
9. TRANSVERSE CONSTRUCTION JOINTS MAY BE FORMED BY USE OF METAL OR WOOD FORMS EQUAL IN DEPTH TO THE NOMINAL DEPTH OF THE PAVEMENT, OR BY METHODS APPROVED BY THE ENGINEER.
10. THE ENGINEER WILL ADJUST THE REQUIRED NUMBER OF TIEBARS FOR SLABS SHORTER OR LONGER THAN 15'. SPACING "B" WILL BE ADJUSTED TO MAINTAIN A MINIMUM CLEARANCE OF 2" BETWEEN THE TIEBAR AND THE DOWEL BARS AT THE TRANSVERSE JOINT AND THE "A" SPACING WILL REMAIN AS REQUIRED FOR THE PAVEMENT SLAB WIDTH.
11. MULTIPLE PIECE TIEBARS SHALL BE USED AT LONGITUDINAL CONSTRUCTION JOINTS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
12. THE SAW CUT FOR LONGITUDINAL WARPING AND THE TRANSVERSE CONSTRUCTION JOINTS MAY BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.

61

Texas Department of Transportation  
Design Division (Pavement)

### CONCRETE PAVEMENT DETAILS CONTRACTION DESIGN T-8 THROUGH 15 INCHES CPCD-94

DATE: SEPT. 1994	BY: LJB	BY: LJB	BY: BGD	BY: GLG	BY: R0000
MODIFICATION	STATE	FEDERAL	FEDERAL	FEDERAL	FEDERAL
18	6	CM 97 (338)			61