

TITLE SHEET  
TYPICAL SECTIONS  
GENERAL NOTES, SPEC DATA & BASIS OF ESTIMATE  
ESTIMATE AND QUANTITY SUMMARY  
RAMPS & TURNAROUNDS QUANTITY SUMMARY  
PLAN-PROFILE, THRU LANES  
PLAN-PROFILE, RAMPS, A-1  
LT. FRONTAGE RD INTERSECTION DETAIL AT  
SH 71 CONNECTION RD  
TYPICAL RAMP DETAILS  
CULVERT LAYOUT SHEETS  
INLET COMP (TYPE H) DETAILS  
CONCRETE COLLAR DETAILS  
SLOTTED MEDIAN DRAINS  
TA(CPCR)-83 (MOD)  
4' EXPANSION JOINT DETAIL  
JS-75 (MOD)  
SUMMARY SMALL SIGNS  
SUMMARY LARGE SIGNS  
SIGNING SCHEMATIC LAYOUT SHEETS  
GUIDE SIGN DETAILS  
DELINEATION & ILLUMINATION SUMMARY SHEET  
DELINEATION & ILLUMINATION LAYOUT SHEETS  
TRAFFIC CONTROL PLAN  
TEMP EROSN., SEDM. & WTR.-POL. CONTROL

## STANDARD SHEETS (BELOW)

SD  
CRCP (B)-89C  
BAS-75 (MOD)  
CTB(1)-85  
CTB(2)-81  
PCTB(1)-83  
PCTB(2)-85  
GF(TD)-87  
BED(OWT)-84  
CD-SPR  
IL-S IL-H  
ILG-S ILG-H RC-C  
MCS-1  
PC-1  
PC-3 (PC-7)  
RID(1-7)-88  
IE(1)  
IM(1)  
IM(2)  
M(1)  
M(2)  
R(1)  
R(2)  
W(1)  
W(2)  
SMD(1-4)  
SMD(1-5)  
SMD(2)  
SMD(8-1)  
SMD(8-2)  
OMIT  
SMD(A-1)  
D & OM(1)  
D & OM(2)  
PM(1)  
PM(2)  
BC(1-7)-88

Standard sheets above have been issued by me  
applicable to this project.

Id L. Justice Date

CONDITIONS ADOPTED BY THE STATE DEPARTMENT OF HIGHWAYS AND  
TRANSPORTATION OF TEXAS, SEPTEMBER 1, 1982 AND SPECIFICATION  
LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT:  
1. STANDARD CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS,  
2. IWA 1273 (OCTOBER 1987)

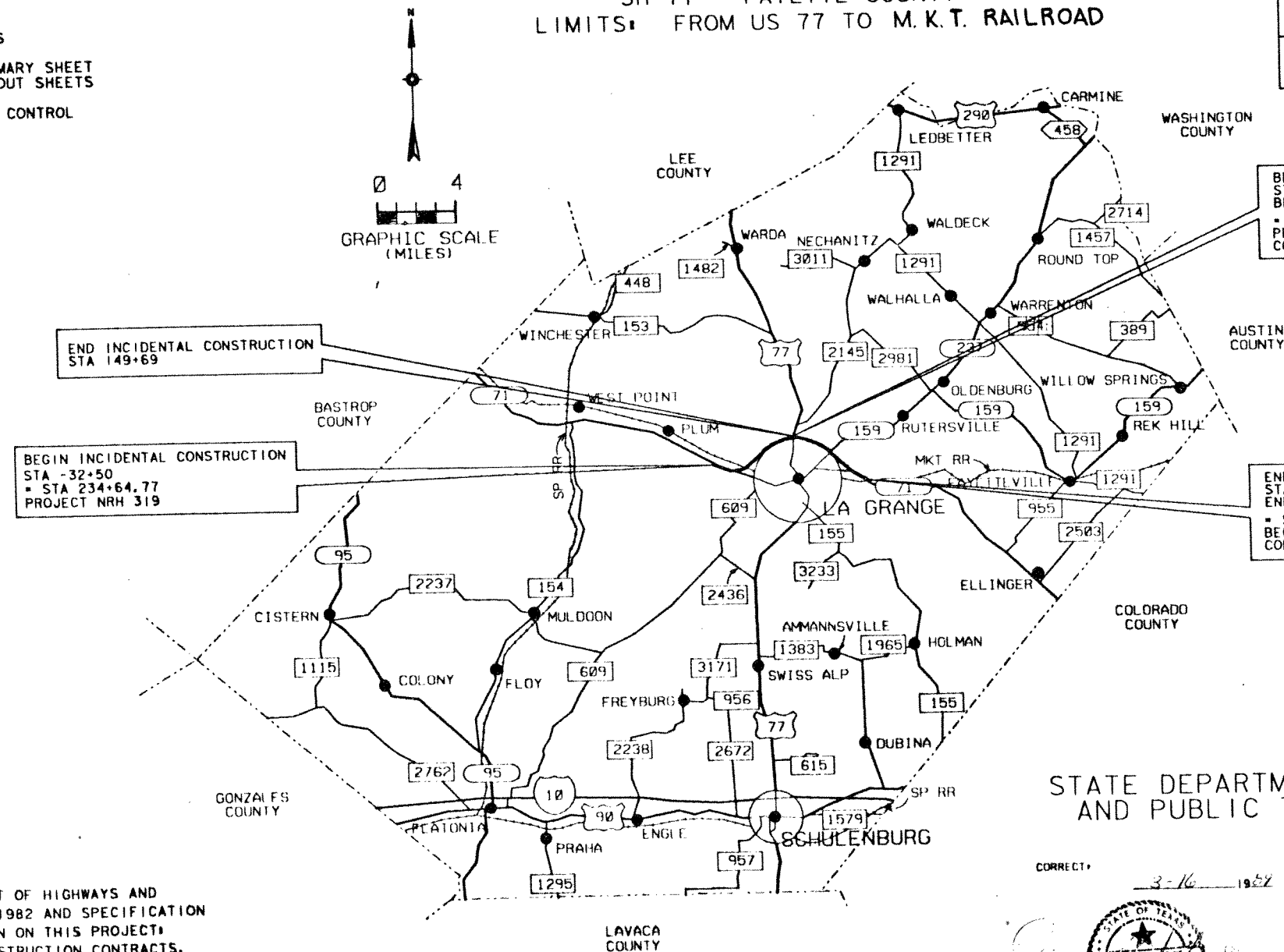
## NOTE:

1. BARRICADES AND SIGNS G20-1, G20-2, R20-3,  
20-1D SHALL BE PLACED AT SH 71, US 77 AND SH 159 INTERSECTIONS.  
2. CW20-1D AND G20-2 SHALL BE USED AT INTERSECTIONS OF ALL  
ROADS ENTERING THE PROJECT.  
3. OTHER SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL REFER TO TRAFFIC  
CONTROL PLANS, SPECIAL PROVISIONS 'DETOUR, BARRICADES, WARNING  
SEQUENCE OF WORK, ETC.' AND BC(1-7)-88 STANDARDS.

# STATE OF TEXAS FINAL PLANS

## STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

### PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT FOR THE CONSTRUCTION OF A NEW LOCATION NON-FREEWAY FACILITY CONSISTING OF BASE & SURFACING (FOUR LANE BYPASS) FEDERAL-AID PROJECT MA-F 417(29) NET LENGTH OF PROJECT = 15938.30 FT. = 3.018 MILES SH 71 - FAYETTE COUNTY LIMITS: FROM US 77 TO M.K.T. RAILROAD



DESIGN SPEED = 60 MPH  
VPD = 6700

NO EQUATIONS  
NO EXCEPTIONS  
NO AT-GRADE RAILROAD CROSSINGS

PROJECT CONTROL	ROADWAY FT	MILES	BRIDGES FT	MILES	TOTAL FT	MILES
266-01-055	15,283.30	2.894	655.00	0.124	15,938.30	3.018

CONTRACTOR NAME: HUNTER INDUSTRIES, INC.  
CONTRACTOR ADDRESS: P.O. BOX 13172, AUSTIN, TX.  
DATE WORK BEGAN: SEPTEMBER 5, 1989  
DATE COMPLETED: JANUARY 15, 1991  
DATE OF ACCEPTANCE: JANUARY 15, 1991

FIELD CHANGE NO.	DESCRIPTION	LIMITS
1	INSTALL 2-2 LUG TERMINAL ANCHORAGE SYSTEMS	STA 145+00
2	RECLASSIFY 269 LF OF MELIAN BARRIER RAIL FROM TYPE 2 TO TYPE 3 AT THE US 77 AND LEDBETTER UNDERPASS. EXTEND THE MELIAN BARRIER FROM EAST INTERCHANGE EASTWARD TO THE M.K.T. RAIL AT OVERPASS.	VARIOUS LOCATIONS
3	CHANGE ITEM 660-003 WINGED CHAN POSTS (112 LB) (7.5 FT) TO ITEM 660-007 WINGED CHAN POSTS (112 LB) (7.0 FT).	ENTIRE PROJECT
4	ADD 175 LF OF MBGF WITH 2- TERMINAL ANCHOR SECTIONS.	FROM STA 1+15.11 TO STA 1+185.11
5	CHANGE QUANTITY FOR ITEM 3573.01	ENTIRE PROJECT

STATE DEPARTMENT OF HIGHWAYS  
AND PUBLIC TRANSPORTATION

CORRECT:

3-16-1989

RESIDENT ENGINEER

RECOMMENDED FOR APPROVAL:

3-22-1989

BENJAMIN W. BISHOP, P.E.  
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL:

RECOMMENDED FOR APPROVAL:

APPROVED FOR LETTING:

5-4-89

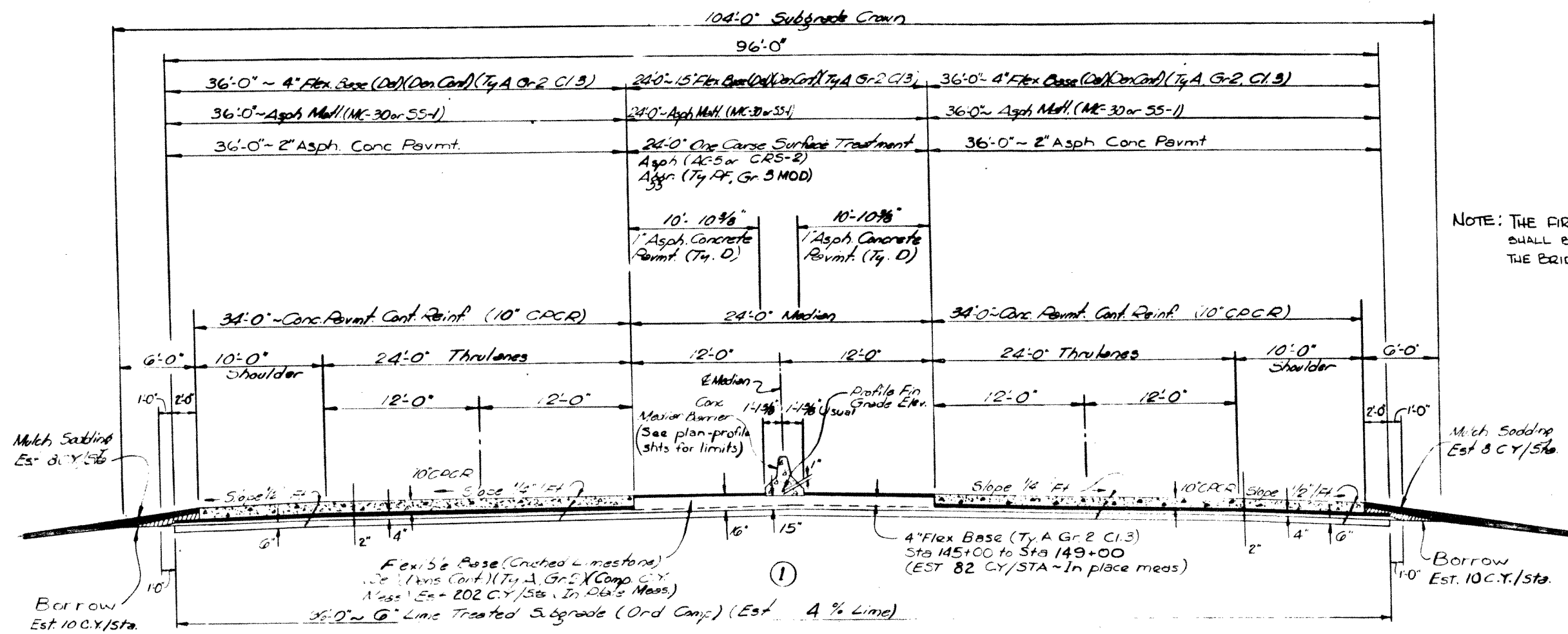
FOR CHIEF ENGINEER,  
HIGHWAY DESIGN

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

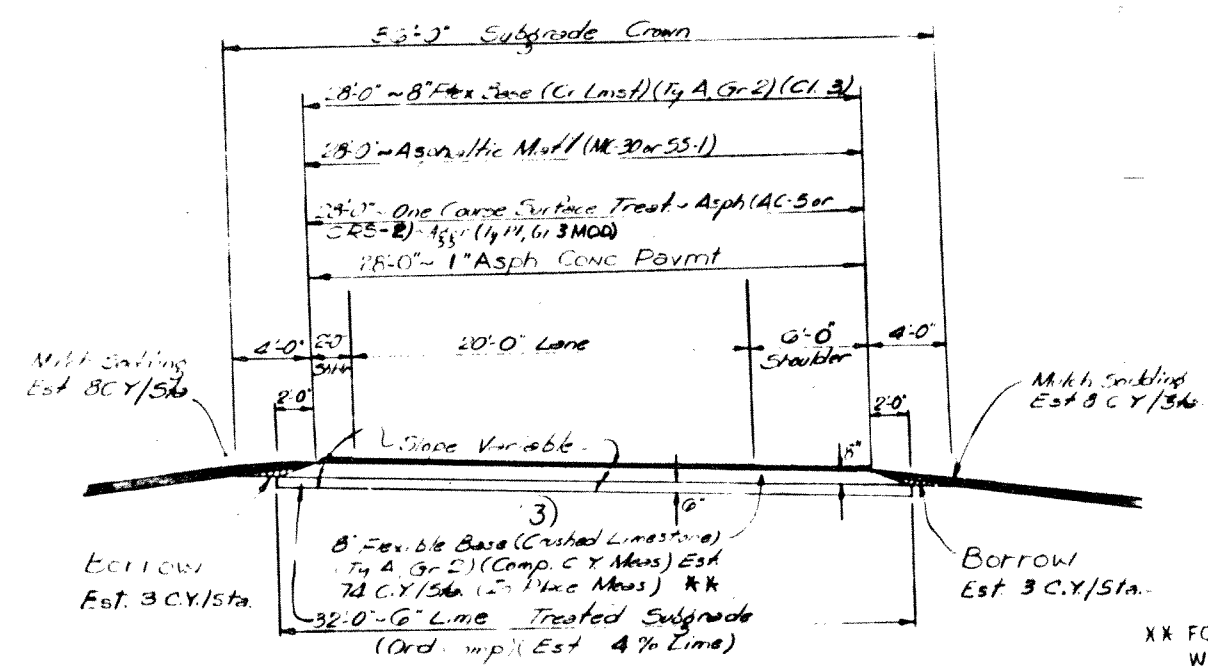
DIVISION ADMINISTRATOR

DATE

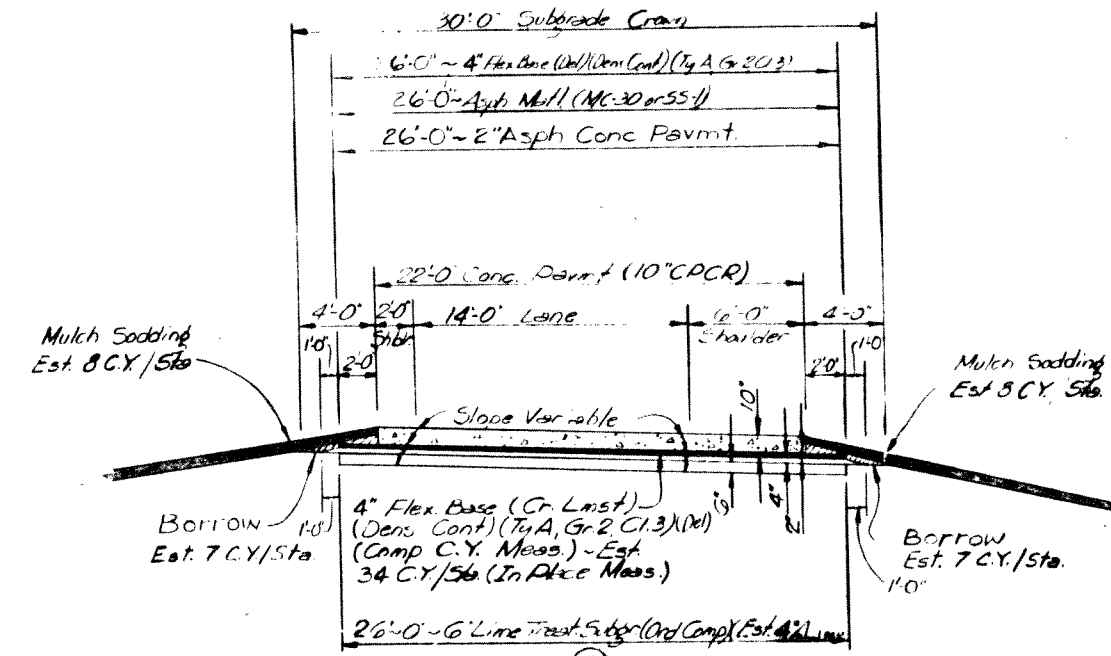


NOTE: THE FIRST LIFT OF FLEX BASE (TY A, GR 2, CL 3) SHALL BE 7" IN DEPTH WITHIN THE LIMITS OF THE BRIDGE APPROACH SLABS.

COMPLETED ROADWAY - 24 FT. MEDIAN  
STA. 145+00 TO STA. 293+70



TYPICAL SECTION - RAMP TURNAROUND  
(Occurs Approx. 10 Stations)



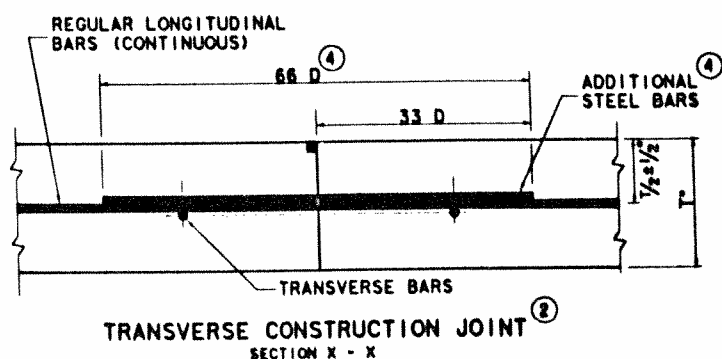
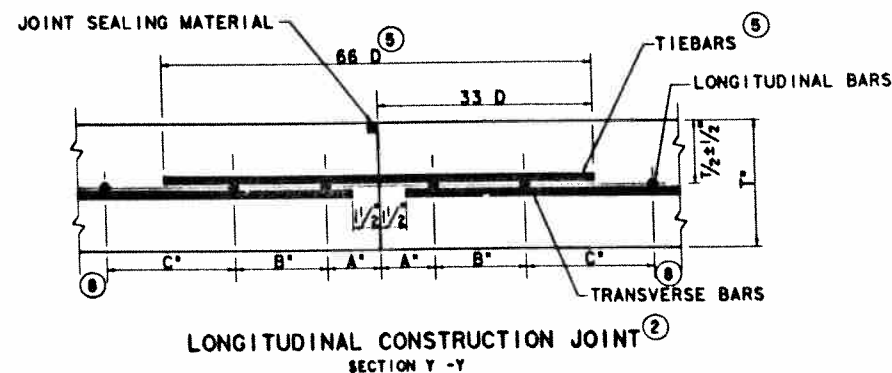
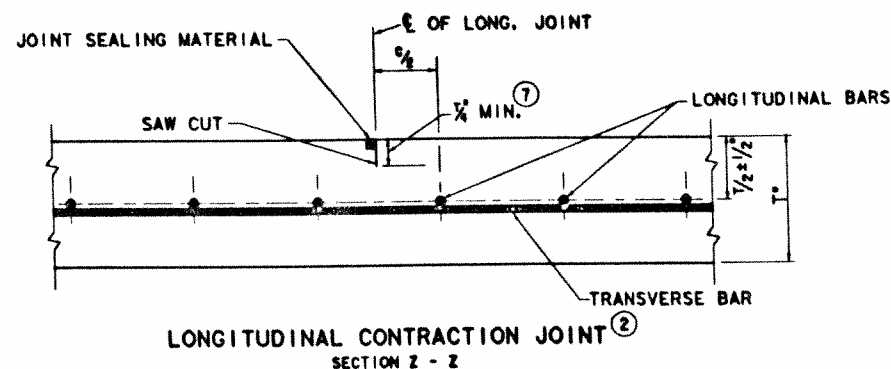
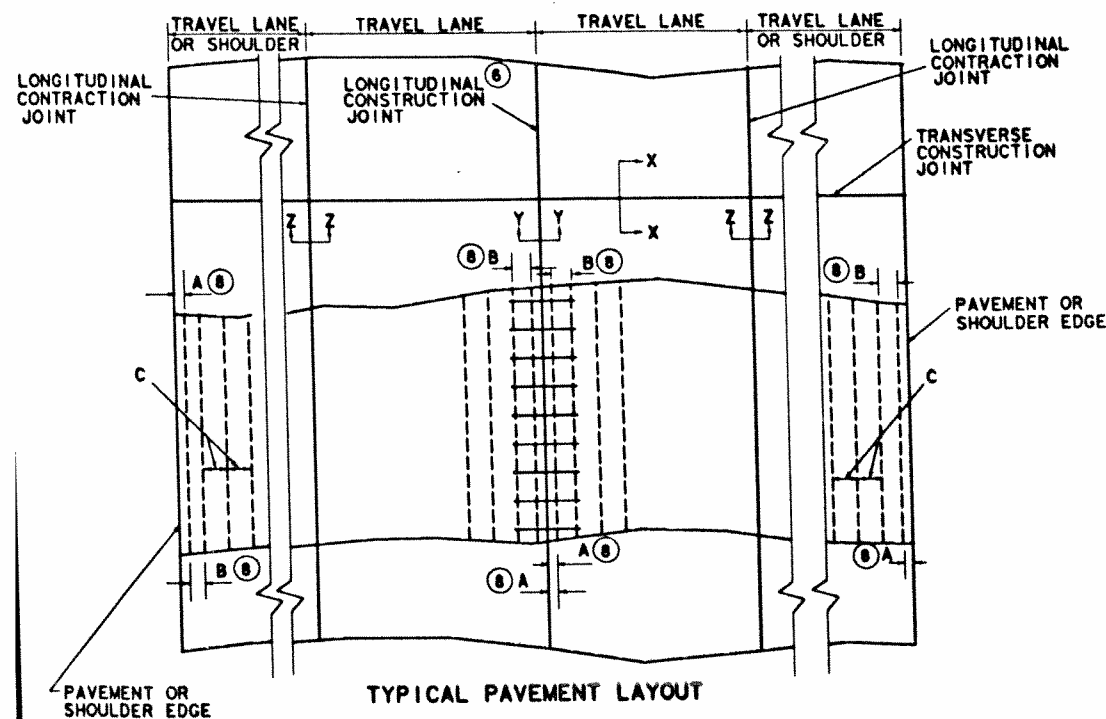
TYPICAL RAMP SECTION  
(Occurs Approx. 73 Stations)

XX FOR RAMP I, 8" FLEX BASE MATERIAL WILL BE REPLACED BY MATERIAL PAID UNDER ITEM 252, "SALVAGING AND REPLACING BASE".

TYPICAL CROSS SECTIONS



PROJECT NO.	STATE	COUNTY	CONTRACT NO.	DATE	BY
145-00	Texas	Dallas	145-00	10/1/77	DLJ
145-00	Texas	Dallas	145-00	10/1/77	DLJ



T (IN.)	LONG. BAR SIZE	SPACING C (IN.)	TRANSVERSE STEEL REQUIREMENTS ③ FOR GIVEN PAVEMENT WIDTHS (FT)						
			< 40	41-50	51-60	61-70	71-80	81-90	91-100
8	5	9	*4e 36*	*4e 29*	*5e 37*	*5e 32*	*5e 28*	*6e 35*	*6e 32*
9	5	7.5	*4e 32*	*4e 26*	*5e 33*	*5e 28*	*6e 35*	*6e 31*	*6e 28*
10	6	8.5	*4e 29*	*5e 36*	*5e 30*	*6e 36*	*6e 32*	*6e 28*	*6e 25*
11	6	7	*4e 26*	*5e 32*	*5e 27*	*6e 33*	*6e 29*	*6e 26*	*6e 23*
12	6	6	*5e 37*	*5e 30*	*6e 35*	*6e 30*	*6e 26*	*6e 23*	*6e 21*
② 13	6	10.5	*4e 36*	*4e 35*	*4e 30*	*4e 25*	*5e 34*	*5e 31*	*5e 27*
② 14	6	9.5	*4e 36*	*4e 33*	*4e 27*	*5e 36*	*5e 32*	*5e 28*	*6e 36*
② 15	6	8.5	*4e 36*	*4e 31*	*4e 26*	*5e 34*	*5e 30*	*6e 38*	*6e 34*

#### FOOTNOTES:

- ② FOR PAVEMENTS 13" OR GREATER IN THICKNESS, TWO LAYERS OF LONGITUDINAL AND TRANSVERSE STEEL SHALL BE USED. WHEN THE "DOUBLE STRIKE-OFF" PROCEDURE IS NOT USED CHAIRS WILL BE REQUIRED TO SUPPORT BOTH LAYERS OF STEEL, AS SHOWN IN THE TABLE ABOVE. THE SPACINGS SHOWN FOR THESE THICKNESSES ARE FOR EACH LAYER.
- ③ TRANSVERSE STEEL MUST BE INCREASED AS PAVEMENTS WIDEN. PAVEMENT WIDTH SHALL BE MEASURED AT RIGHT ANGLES TO THE CENTERLINE AND SHALL INCLUDE ALL MAINLANES, CONNECTORS, RAMPS AND CONCRETE SHOULDERS THAT ARE TIED TOGETHER. WHERE WIDTHS EXCEED 100', ADDITIONAL TRANSVERSE STEEL WILL BE REQUIRED, UNLESS A "FREE" (NON-REINFORCED) LONGITUDINAL JOINT IS SHOWN ELSEWHERE IN THE PLANS. WHERE THE CENTER MEDIAN IS TO BE PAVED WITH CRCP AND A MEDIAN BARRIER IS PROVIDED, THE "FREE" (NON-REINFORCED) LONGITUDINAL JOINT WILL BE PLACED UNDER THE BARRIER.
- ④ ADDITIONAL STEEL AT THE TRANSVERSE CONSTRUCTION JOINTS SHALL BE BARS OF EQUAL DIAMETER, AND A SPACING OF DOUBLE THAT SPECIFIED FOR THE LONGITUDINAL STEEL OF THE GIVEN THICKNESS. THE LENGTH OF THE BARS SHALL BE 66 TIMES THE BAR DIAMETER ("D").
- ⑤ TRANSVERSE TIEBARS AT THE LONGITUDINAL CONSTRUCTION JOINTS SHALL BE BARS OF EQUAL DIAMETER AND SPACING TO THOSE SPECIFIED FOR THE TRANSVERSE STEEL OF THE GIVEN THICKNESS. THE LENGTH OF THE BARS SHALL BE 66 TIMES THE BAR DIAMETER ("D").
- ⑥ 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.
- ⑦ IF SILICEOUS GRAVEL IS USED AS A COARSE AGGREGATE, THE SAW CUT DEPTH FOR LONGITUDINAL CONTRACTION JOINTS SHALL BE T/3.
- ⑧ THE NUMBER OF BARS REQUIRED FOR THE VARIOUS PLACEMENT WIDTHS (INDICATED IN THE TABLE) INCLUDES BARS AT "B" SPACING ON BOTH SIDES WITH AN OVERHANG "A". "A" SPACING SHALL BE BETWEEN 3' AND 4'. "B" SPACING SHALL BE BETWEEN 3' AND 9'. THE TWO SPACINGS COMBINED ("A" AND "B"), LOCATED AT BOTH LONGITUDINAL EDGES OF THE CONCRETE PLACEMENT, SHALL PROVIDE FOR THE REMAINING SPACE AND STEEL LOCATION TO ROUND OUT THE PLACEMENT WIDTH.

#### GENERAL NOTES

1. NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSEWHERE IN THE PLANS.
2. LONGITUDINAL AND TRANSVERSE BARS SHALL BE DEFORMED STEEL CONFORMING TO ASTM A-615 OR ASTM A-616 (GRADE 60) AS NOTED IN THE STANDARD SPECIFICATIONS.
3. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT, REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
4. DETAILS AS TO PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
5. WITHIN ANY AREA BOUNDED BY TWO FEET OF PAVEMENT LENGTH MEASURED PARALLEL TO THE CENTERLINE AND TWELVE FEET OF PAVEMENT WIDTH MEASURED PERPENDICULAR TO THE PAVEMENT CENTERLINE, NOT OVER 33% OF THE REGULAR LONGITUDINAL STEEL SHALL BE SPLICED.
6. THE LONGITUDINAL STEEL SHALL BE PLACED AT THE VERTICAL SLAB CENTER WITH A TOLERANCE OF 1/2 INCH. TRANSVERSE STEEL SHALL BE PLACED DIRECTLY ABOVE OR BELOW THE LONGITUDINAL STEEL.
7. SPLICES SHALL BE A MINIMUM OF 33 TIMES THE NOMINAL STEEL DIAMETER ("D").
8. BARS THAT REQUIRE BENDING SHALL BE GRADE 40 STEEL CONFORMING TO REQUIREMENTS OF ASTM DESIGNATION A 615. SPACINGS FOR GRADE 40 STEEL SHALL BE 2/3 OF THAT SPECIFIED FOR GRADE 60 STEEL.
9. THE REGULAR LONGITUDINAL STEEL AT TRANSVERSE CONSTRUCTION JOINTS SHALL EXTEND A MINIMUM OF FOUR FEET ON EITHER SIDE OF THE JOINT.
10. VIBRATION WITH HAND-MANIPULATED MECHANICAL VIBRATORS WILL BE REQUIRED ADJACENT TO ALL TRANSVERSE CONSTRUCTION JOINTS.
11. THE CHAIRS USED TO SUPPORT THE STEEL SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE STEEL MAT WITHIN THE PLACEMENT HEIGHT TOLERANCES. CHAIRS SHALL BE OF A TYPE APPROVED BY THE ENGINEER.
12. WITH THE APPROVAL OF THE ENGINEER, MULTIPLE PIECE TIEBARS (THREADED COUPLING OR OTHER ADEQUATE DEVICE) MAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVELOPS A FORCE EQUAL TO 1-1/2 TIMES THE MINIMUM YIELD STRENGTH OF THE TIEBAR SHOWN. THE SPACING FOR THE SYSTEM SHALL BE LESS THAN OR EQUAL TO THAT OF THE TIEBARS SHOWN.
13. JOINT, GROOVE AND SEAL DETAILS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
14. LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE-TWELFTH OF THE SPACING SHOWN HEREON.
15. IF WIDTHS OCCUR THAT ARE OTHER THAN THE TYPICAL WIDTHS SHOWN, INDIVIDUAL BARS OF THE SIZE SPECIFIED HEREON MAY BE ADDED OR REMOVED TO OBTAIN THE APPROPRIATE WIDTH. SPACING REQUIREMENTS SHALL NOT BE EXCEEDED, HOWEVER.
16. WHEN MACHINE-PLACING OF STEEL REINFORCEMENT IS USED, THE USE OF CHAIRS SHALL NOT BE REQUIRED, AND THE TRANSVERSE STEEL MAY BE PLACED ABOVE OR BELOW THE LONGITUDINAL STEEL.

CHAIR SIZES (IN.) ② FOR TWO LAYER STEEL PLACEMENT		
T (IN.)	TOP STEEL	BOTTOM STEEL
13	6.5	3
14	7.5	4
15	8	4.5

NUMBER OF BARS ⑧ REQUIRED FOR VARIOUS SPACING TYPICAL PLACEMENT WIDTHS (FT.)								
SPACING C (IN.)	12	16	22	24	27	34	38	
6	24	32	44	48	54	68	76	
7	21	27	38	41	46	58	65	
7.5	19	26	35	38	43	54	61	
8.5	17	23	31	34	38	48	54	
9	16	21	29	32	36	45	51	
9.5	15	20	28	30	34	43	48	
10.5	14	18	25	27	31	39	43	



STATE DEPARTMENT OF HIGHWAYS  
AND PUBLIC TRANSPORTATION

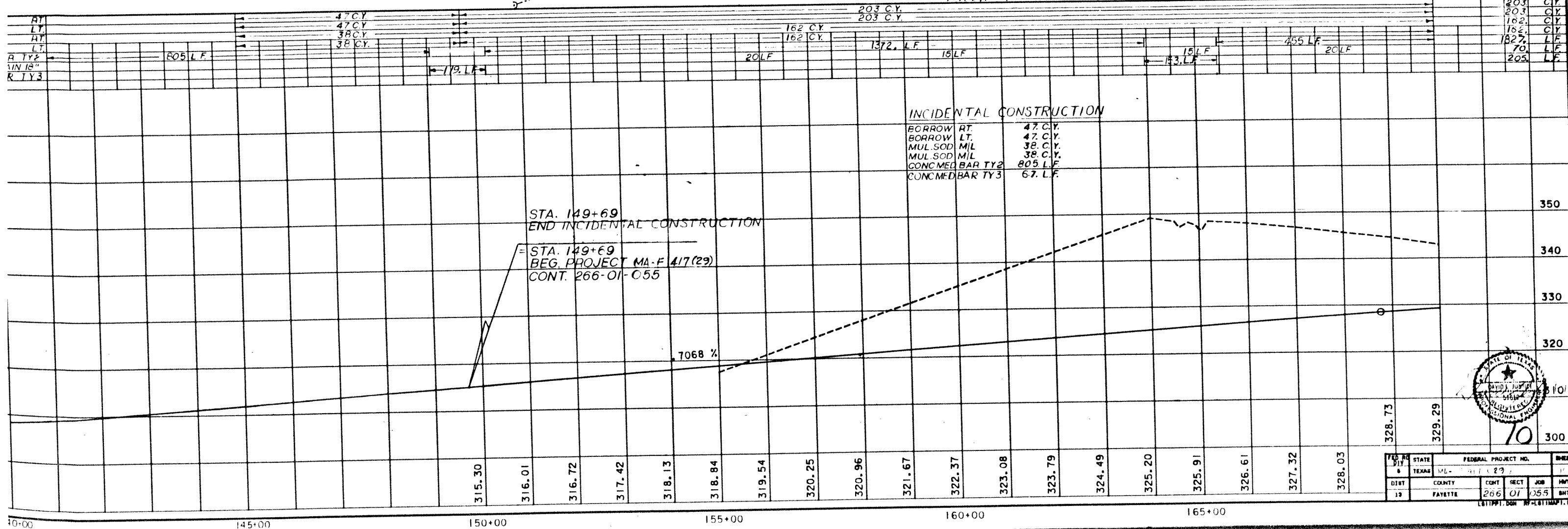
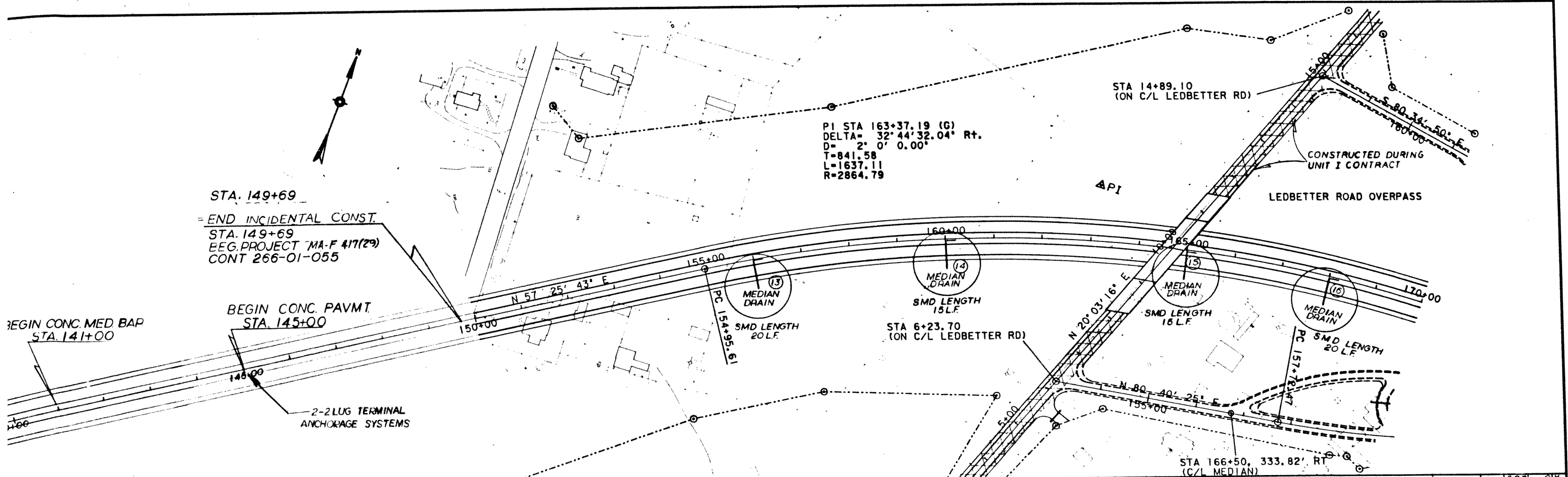
### CONCRETE PAVEMENT DETAILS

CONTINUOUSLY REINFORCED  
STEEL BARS

CRCP (B) - 89C

85

REVISIONS	FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
	6	TEXAS	MA-F 417(20)	85
		COUNTY	CON.	SECT.
		FARELE	144	1
				54 71
				A-17



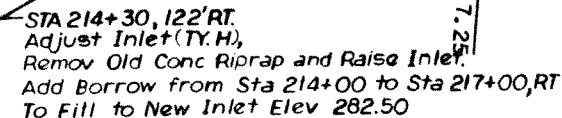
FED. RD. DIST.	STATE	FEDERAL PROJECT NO.	SHEET
13	TEXAS	266-01-055	10
DIST.	COUNTY	CONT.	SECT.
13	FAYETTE	266	01
		JOB	HWY
		266	01
		055	BNTI



STA 213+00, 118' LT. \_\_\_\_\_  
Adjust Inlet (TY.H),  
Remov Old Conc Riprap and Raise Inlet.  
Add Borrow from Sta 210+00 to Sta 216+20, LT.  
To Fill to New Inlet Elev 285.25

Remov Old Conc (Riprap)  
STA 211+38, LT. ~192 S.Y.

Remove Old Conc (Flume)  
STA 211+38 to STA 218+00, L.T. - 416 S.Y.



STA 224+35, 198' RT.  
Adjust Inlet (TY.H),  
Remov Old Conc Riprap and Raise Inlet  
Add Borrow from Sta 224+00 to Sta 225+30  
To Fill to New Inlet Elev. 289.00

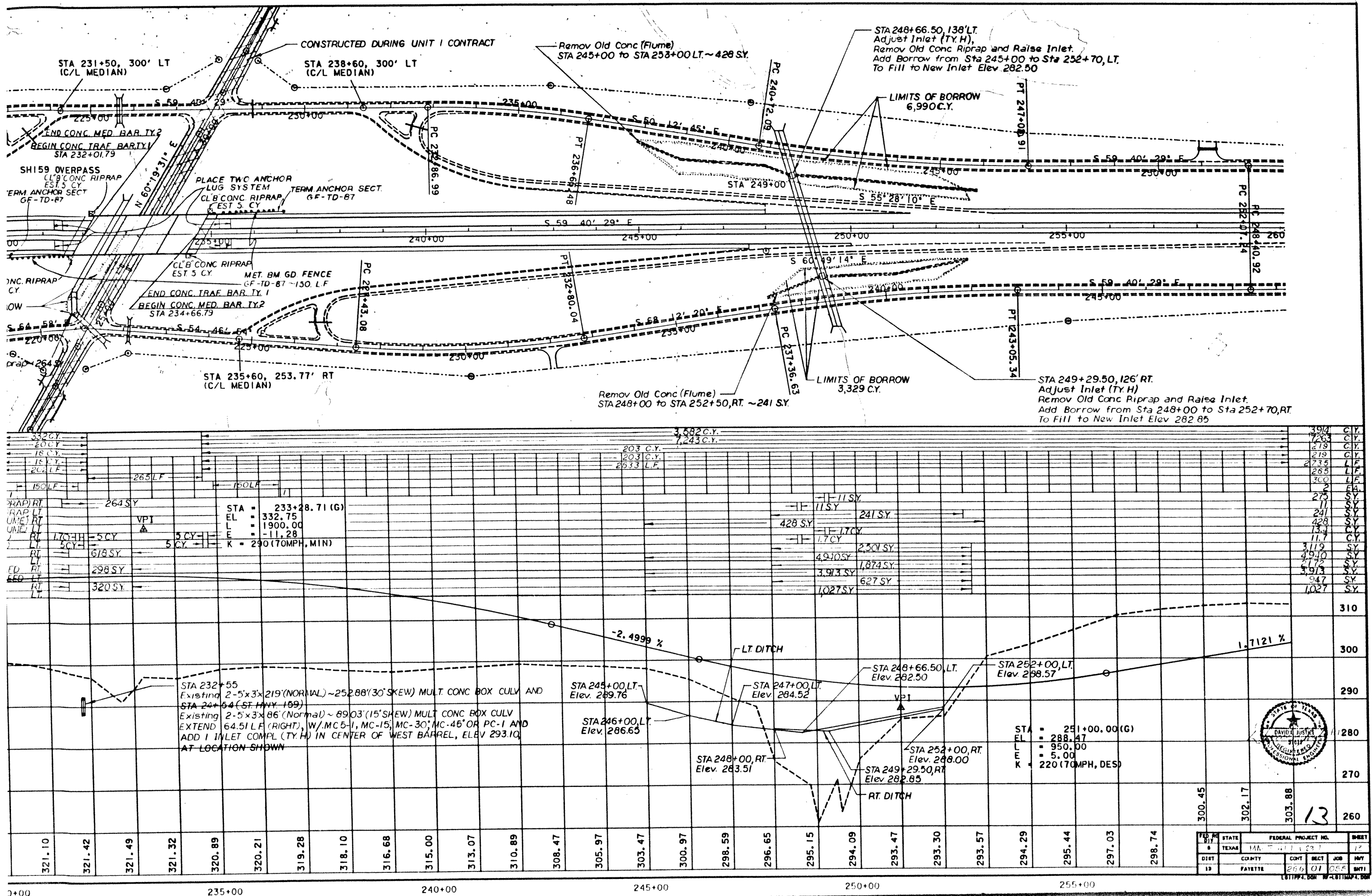
STA 228+50, 251.94' RT  
(C/L MEDIAN)  
LIMITS OF BORROW  
898 C.Y.

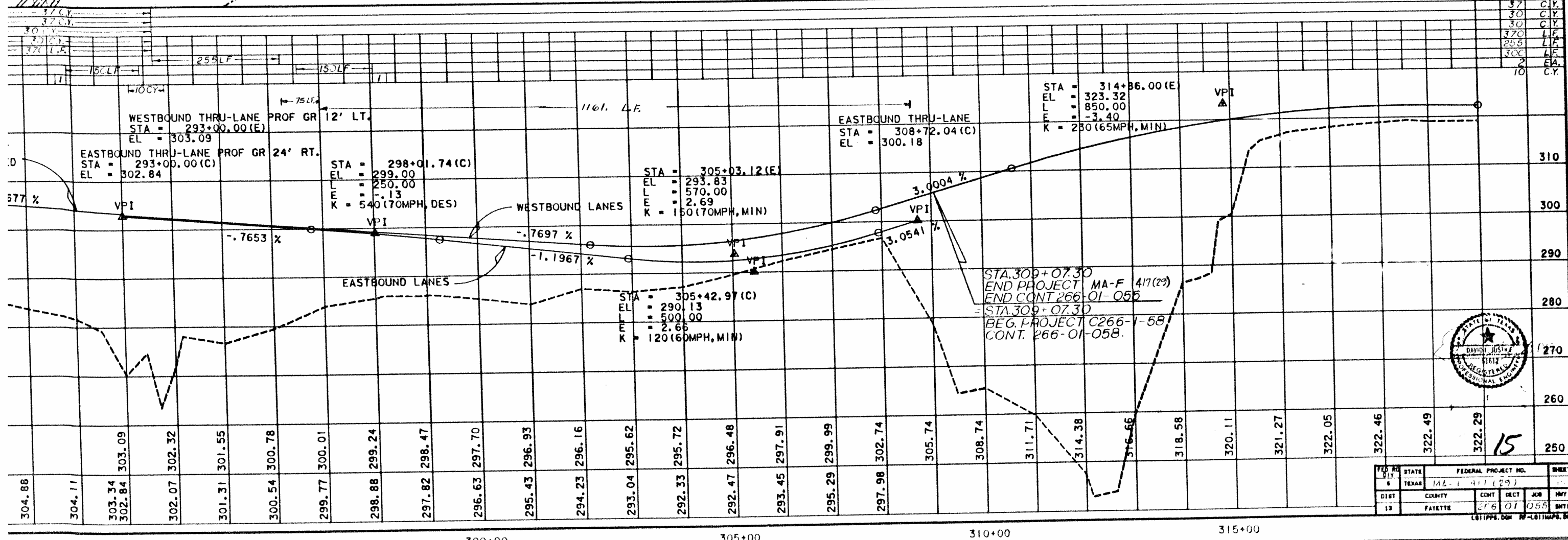
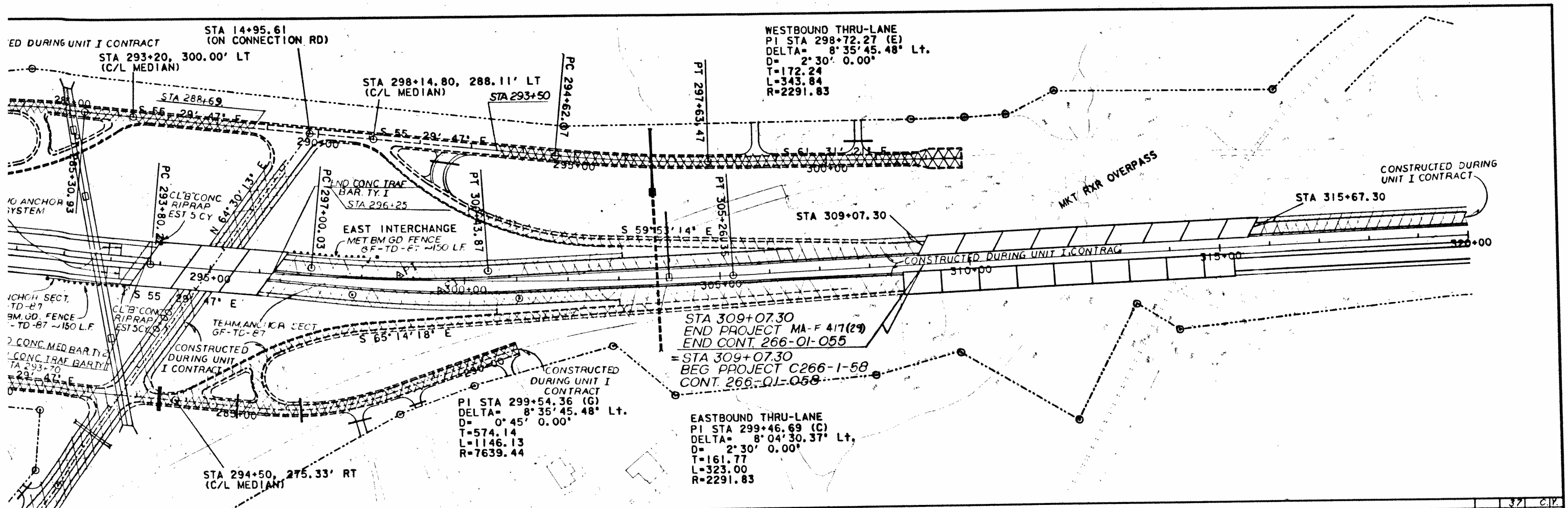
Remove Old Conc (Flume).  
STA 224+00 to STA 224+35, RT. ~ 27 SY.



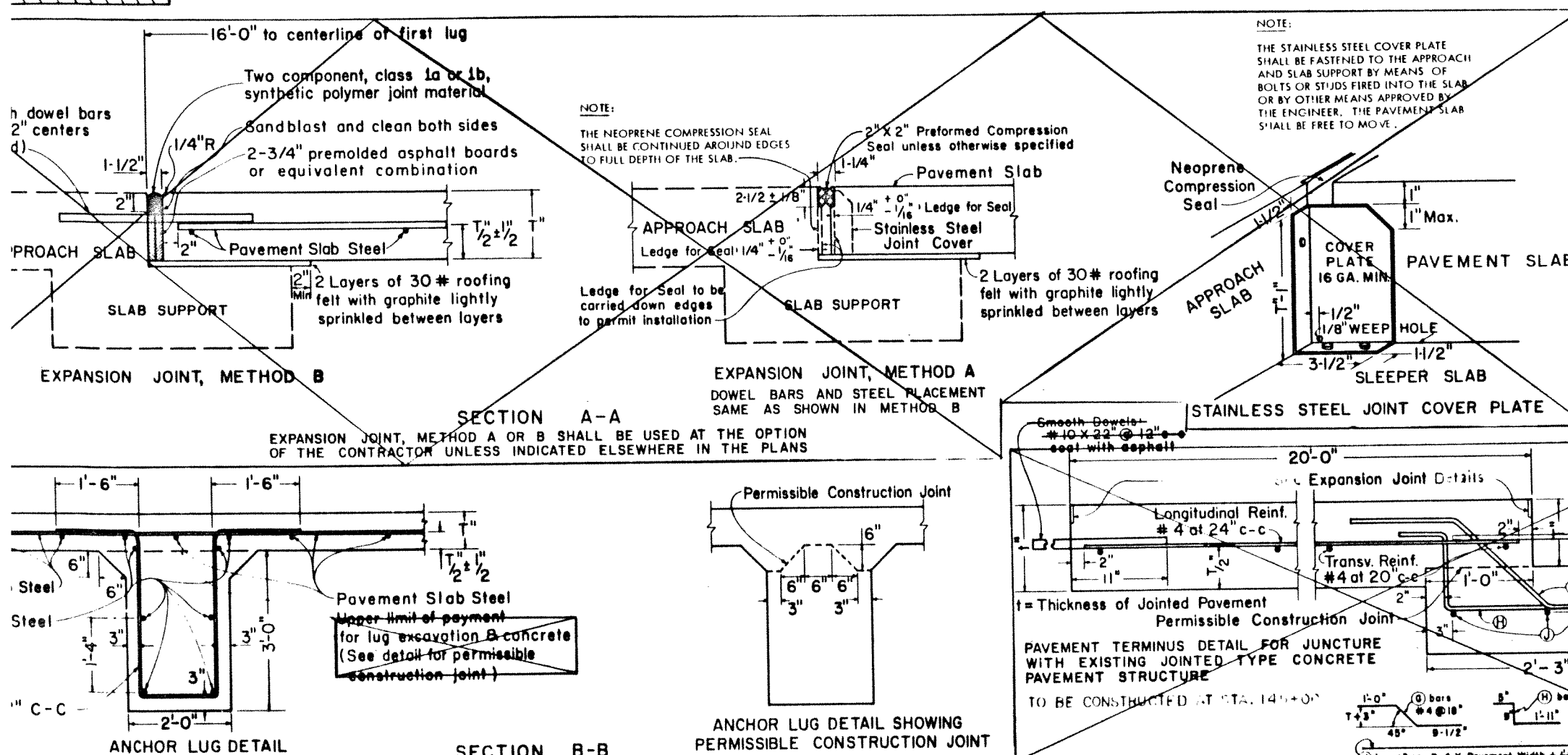
STA 224+35	Existing 1-36"x 280' R.C. PIPE. Ramov S.E.T and return to S.D.H.P.T.
	Extend with 1-36"x 37.18 L.F. R.C. PIPE to THE RIGHT,
	To Intersect with the Existing Inlet (TY. H) which is
	to be Adjusted to New Inlet Elev. 289.00.

STA 225+76 RT RAMP		
Existing 1-18"x 84" R.C. PIPE. Remov. S.E.T. and return to S.D.H.R.T.		
Extend with 1-18"x 80.44 L.F. R.C. PIPE to Intersect		
With the Existing Inlet to be Adjusted.	-	m



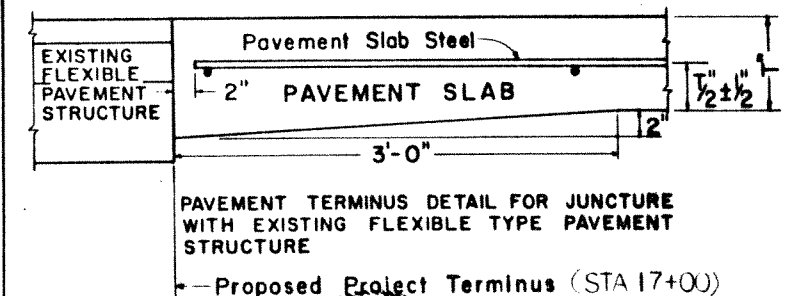







MATERIAL	ESTIMATING QUANTITIES FOR ANCHOR LUG	
	24 FOOT LENGTH	PER FOOT OF LENGTH
EXCAVATION AND CONCRETE (CU.YD)	5.56	0.23148
STEEL (LBS)	653	27.369*

\* SUBTRACT FOUR LBS. FROM TOTAL TO ALLOW FOR EDGE COVER  
DOWEL BARS SHALL BE SUBSIDIARY TO OTHER BID ITEMS

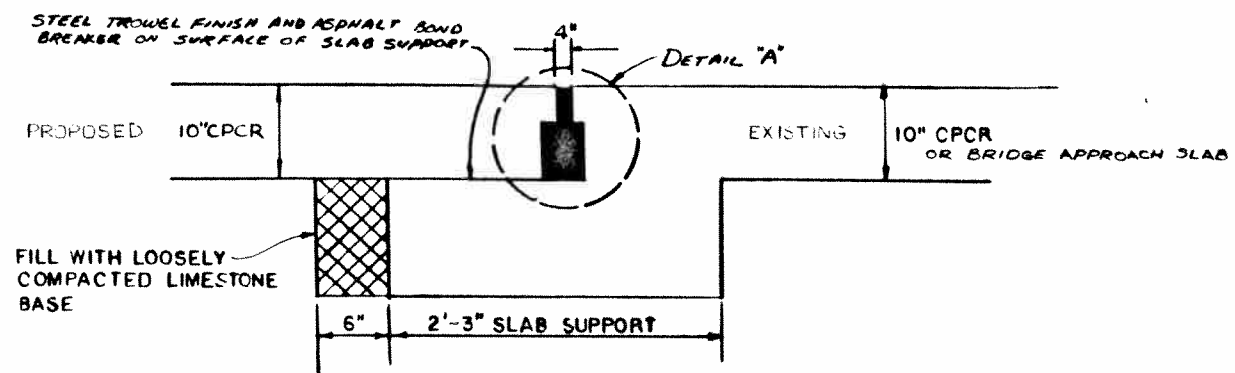
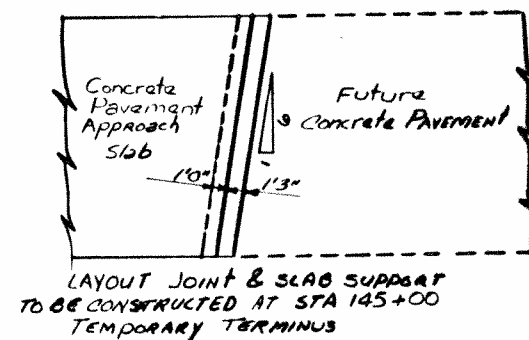


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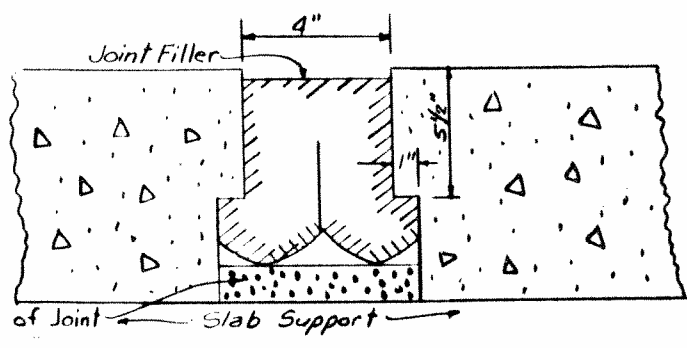
**TERMINAL ANCHORAGE  
FOR  
CONCRETE PAVEMENT  
CONTINUOUSLY REINFORCED  
TA (CPCR) - 83 (MOD)**

IN	DRAWING	DATE	PROJECT NO.	SHEET NO.
BY	ORIGINAL			
CD	REVISED	6	TEXAS	141-F 411 (22)
CD	REVISED	DATE	COUNTY	CONTRACT NO.
18		13	FAYETTE	SH 71



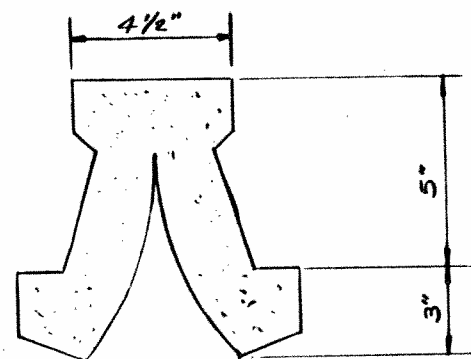


NOTE - LIMESTONE BASE AND PRESSURE RELIEF JOINT MATERIAL REQUIRED FOR THIS INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.



DETAIL "A"

PRESSURE RELIEF JOINT FILLER IS TO BE INSERTED INTO JOINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITH TOP TO BE 1/2" BELOW PAVEMENT SURFACE



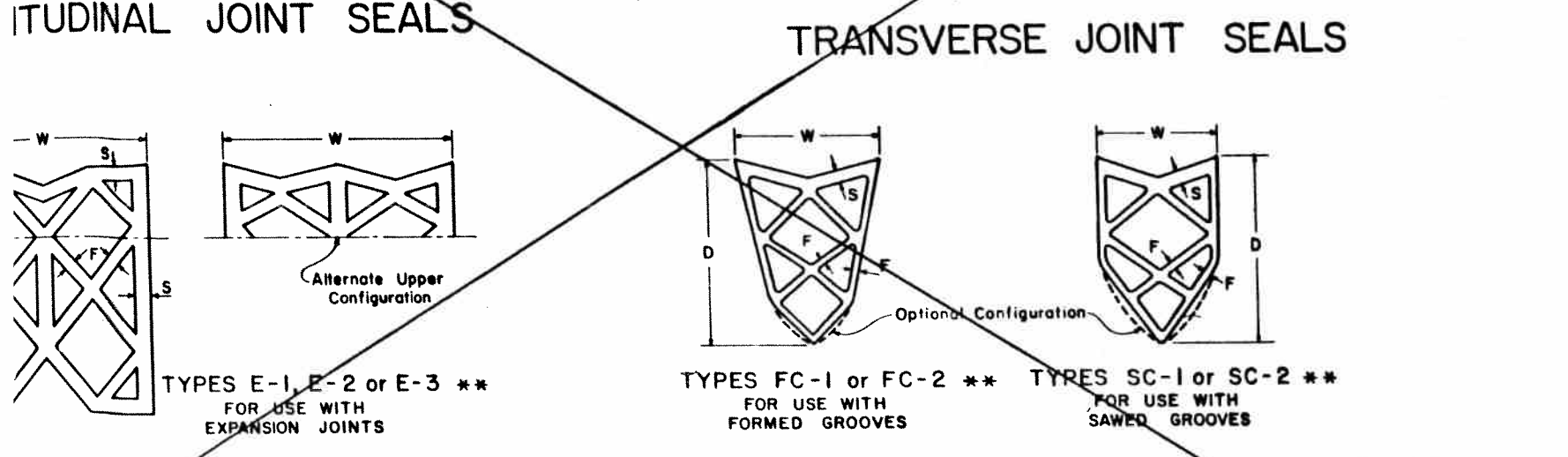
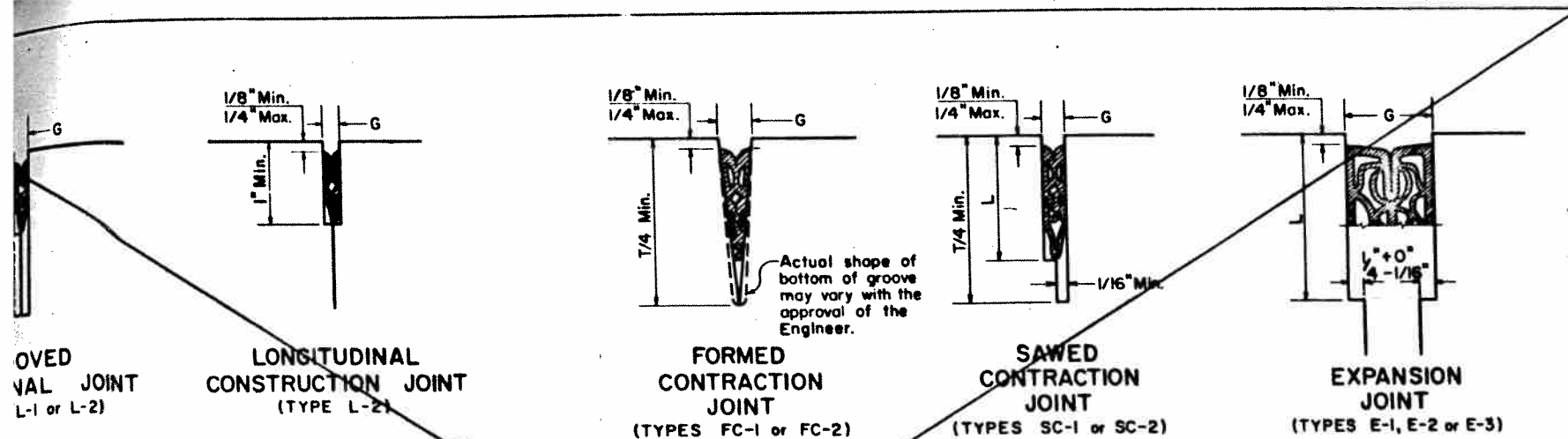
SECTION

PRESSURE RELIEF JOINT FILLER

4" EXPANSION JOINT DETAIL



PEN. NO.	STATE	PROJECT NO.	SHEET
017-000	TEXAS	14A-F 417 (22)	29
STATE DIST. NO.	COUNTY	CONTRACT NO.	SECTION NO.
13	Fayette	2nd DIST. 100	5171



# METHOD A: PREFORMED COMPRESSION SEALS

T E	JOINT GROOVE		MINIMUM JOINT SEAL SIZE TO BE USED <sup>2</sup>							SEAL DESIGN- ATION & TYPE
	WIDTH G (in.)	DEPTH L (in.)	WIDTH W (in.)	DEPTH D (in.)	MAX. WID. LAT. COMP.	THICK. S (in.)	TOLER <sup>3</sup> S (in.)	THICK. F (in.)	TOLER <sup>3</sup> F (in.)	
JINAL T	$\frac{1}{8} - \frac{0}{+1/16}$	7/8	5/16	5/8	1/8	0.040	-0.005	0.040	-0.005	L-1
	$\frac{1}{4} + \frac{1}{32}$	1	7/16	23/32	7/32	0.062	-0.005	0.040	-0.005	L-2
RANS- NTRAC JOINT	$\frac{1}{4} - \frac{0}{+1/16}$	1-1/2	11/16	1-1/8	1/4	0.080	-0.012	0.040	-0.009	SC-1
	$\frac{3}{8} - \frac{0}{+1/16}$	1-3/4	13/16	1-1/8	5/16	0.080	-0.012	0.040	-0.009	SC-2
RANS- NTRAC JOINT	3/8	N/A	13/16	1-1/8	5/16	0.080	-0.012	0.040	-0.009	FC-1
	5/8	N/A	1-1/4	1-1/2	5/8	0.080	-0.012	0.080	-0.012	FC-2
SION TS	1 *	2-1/8	1-5/8	1-5/8	7/8	0.094	-0.016	0.080	-0.012	E-1
	1-1/4 *	2-3/4	2	2	1	0.125	-0.016	0.110	-0.016	E-2
	1-5/8 *	3-3/8	2-1/2	2-3/4	1-1/4	0.187	-0.016	0.125	-0.016	E-3

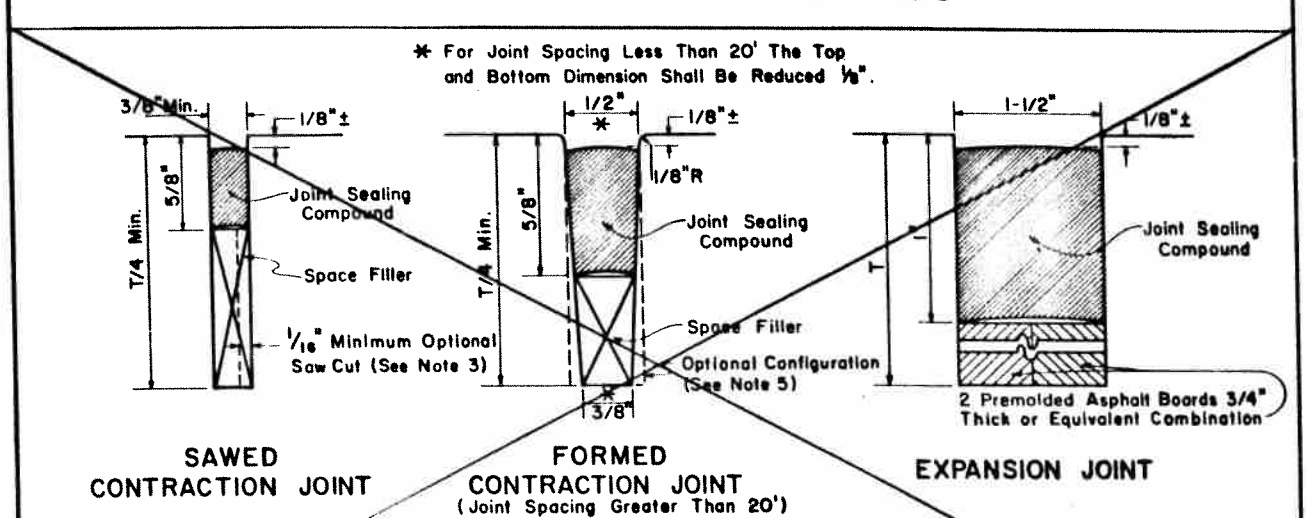
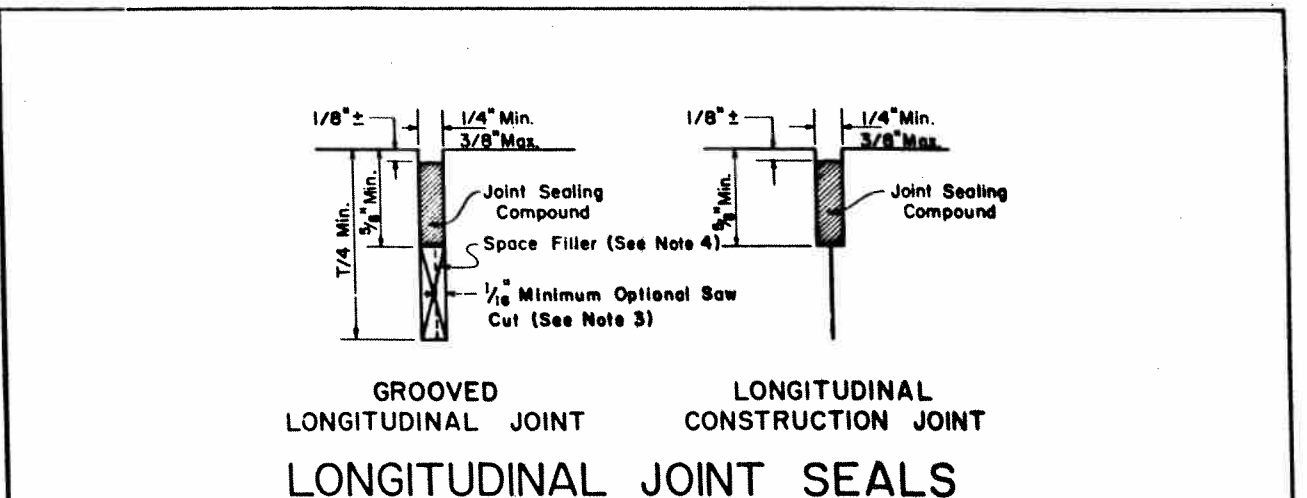
JOINT GROOVE WIDTH IS FOR SUMMER CONCRETE PLACEMENT. WHEN CONCRETE IS PLACED DURING THE WINTER, THIS GROOVE SHALL BE INCREASED 1/8".

ALL VARIATIONS IN SEAL SIZES, THIS DIMENSION MAY HAVE TO BE MODIFIED SLIGHTLY TO PERMIT INSTALLATION. THIS DIMENSION IS APPLICABLE ONLY WHEN A STEPPED GROOVE IS USED. NOT APPLICABLE.

DIMENSIONS ARE MINIMUM DIMENSIONS. DIMENSIONS GREATER THAN THOSE SHOWN MAY BE USED PROVIDED BY THE ENGINEER AND IF THEY PERMIT INSTALLATION IN A WORKMANLIKE MANNER AT THE EXPENSE OF THE STATE.

MINIMUM TOLERANCES ARE SHOWN. ANY REASONABLE OVERSIZE WILL BE ACCEPTED PROVIDED INSTALLATION IS POSSIBLE.

- GENERAL NOTES FOR METHOD "A"**
- A SAMPLE OF EACH SIZE AND TYPE OF SEAL PROPOSED FOR USE SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
  - THE SEALS SHOWN AS METHOD "A" OR METHOD "B" MAY BE USED AT ANY JOINT REQUIRING A SEAL, HOWEVER, THE SAME SEAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
  - LONGITUDINAL JOINTS SHALL BE SAWED STRAIGHT AND TRUE TO LINE AS DETAILED IN THE STANDARD SPECIFICATIONS.
  - TRANSVERSE JOINTS MAY BE SAWED OR FORMED AND SHALL BE PLACED AS SHOWN ELSEWHERE IN THE PLANS.
  - THE SEALS DESIGNATED L-1 AND L-2 SHALL HAVE A CONFIGURATION SIMILAR TO THE TYPE FC OR SC.
  - OTHER INTERIOR CONFIGURATIONS MAY BE USED PROVIDED THE MATERIAL MEETS ALL OF THE REQUIREMENTS OF THE SPECIFICATIONS AND AS OTHERWISE SHOWN HEREON OR ELSEWHERE IN THE PLANS. THE NUMBER OF INTERIOR CELLS AND/OR THE THICKNESS OF THE EXTERIOR AND INTERIOR WALLS SHALL BE SUCH AS TO PROVIDE AN ADEQUATE COMPRESSIVE FORCE TO MAINTAIN A POSITIVE SEAL.
  - UNLESS OTHERWISE SPECIFIED, THE SIDES OF THE FORMED CONTRACTION JOINT MAY BE FORMED PARALLEL, BUT IF SO FORMED, THE SEAL SHALL BE AN APPROPRIATE TYPE SC SEAL APPROVED BY THE ENGINEER.
  - UNLESS THE GROOVE AND SEAL COMBINATION IS SPECIFICALLY DESIGNATED ELSEWHERE IN THE PLANS, ANY GROOVE AND SEAL COMBINATION SHOWN IN THE TABLE FOR A PARTICULAR TYPE JOINT MAY BE USED, BUT MUST BE APPROVED BY THE ENGINEER.
  - SEE EXPANSION JOINT DETAIL FOR TRANSVERSE EXPANSION JOINTS.



# METHOD B: JOINT SEALING COMPOUND

- GENERAL NOTES FOR METHOD "B"**
- LONGITUDINAL JOINTS MAY BE SAWED OR FORMED AS DETAILED IN THE STANDARD SPECIFICATIONS.
  - TRANSVERSE JOINTS MAY BE SAWED OR FORMED AND SHALL BE PLACED AS SHOWN ELSEWHERE IN THE PLANS.
  - A SUITABLE SPACE FILLER SHALL BE USED WHERE SHOWN AND THE JOINT SEAL COMPOUND POURED TO THE DEPTH INDICATED EXCEPT THAT IF THE MINIMUM SAW CUT IS USED, THE SPACE FILLER MAY BE DELETED.
  - AT THE OPTION OF THE CONTRACTOR, THE SPACE FILLER MAY BE OMITTED IN THE LONGITUDINAL JOINT ONLY AND THE JOINT SEALING COMPOUND POURED FULL DEPTH.
  - UNLESS OTHERWISE SPECIFIED, THE SIDES OF THE FORMED CONTRACTION JOINT MAY BE FORMED PARALLEL AT THE OPTION OF THE CONTRACTOR.
  - UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

**CONCRETE PAVING DETAILS**

**JOINT SEALS**

**JS-75 (MOD)**

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DATE	PROJECT NO.	SHEET NO.
5/16/17	24 E 417 (2)	30
STATE	COUNTY	CONTRACT
TEXAS	FAYETTE	266
SECTION	JOB	NO.
13	055	SH 71