

TO DRAIN EXISTING ROW \*\* FRONTAGE ROAD WIDENING VARIES 24.5'- 35.5' PROPOSED IH-45

MAIN LANES

STA. 982+99.20 TO STA. 1005+00.00 RETAINING WALL EXISTING GROUND S, \* SEE RETAINING WALL LAYOUTS FOR WALL LIMITS \*\* TYPICAL SECTIONS FOR FRONTAGE ROAD WIDENING SHOWN ELSEWHERE Ξ 45 9999 ARIES 24'-47' CIMITS OF SAW CUT-VARIES 8'-32.6' LIMITS OF (P) \*\* FRONTAGE ROAD WIDENING ØΓΥΡ. EXISTING ROW

EXISTING ROW PROPOSED ROW

6" JRCP 10" CRCP 8" JRCP

TY II MONO CURB
SINGLE SLOPE CONC. TRAFFIC RAIL
MOW STRIP (4"x2")

BLOCK SOD RIP RAP (4 IN) 6" LTS

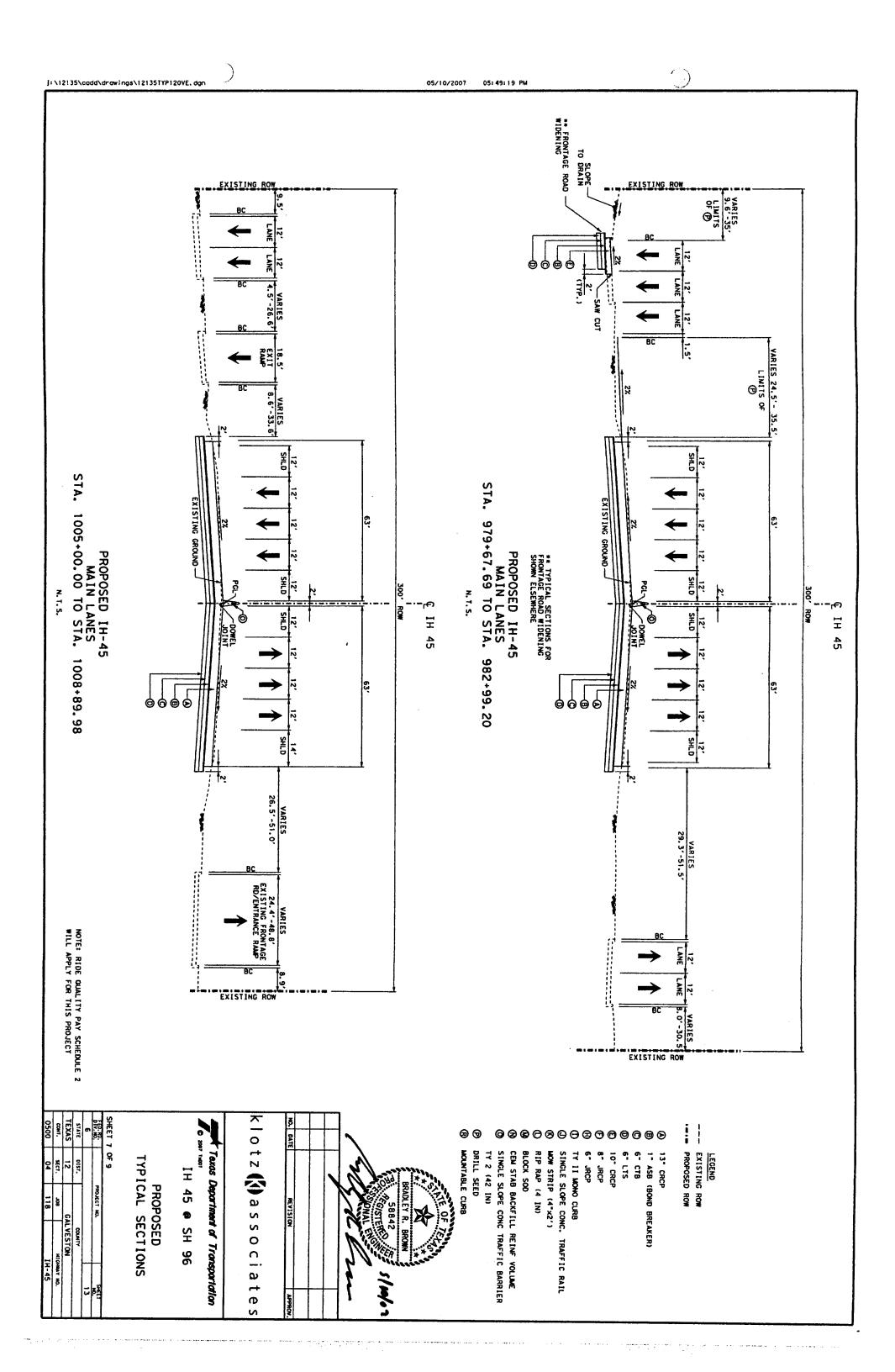
1" ASB (BOND BREAKER)

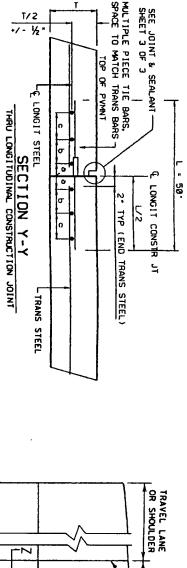
13" CRCP

NOTE: RIDE QUALITY PAY SCHEDULE 2
WILL APPLY FOR THIS PROJECT

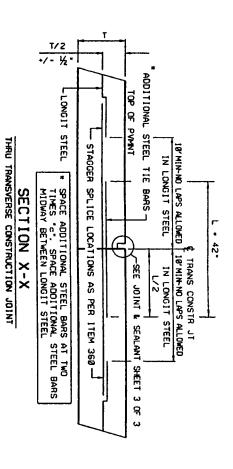
SHEET 6 OF 9 klotz 📢 ass 0 2 8 0 8 0 0 0 0 0 0 0 0 0 ම ම Texas Department of Transportation CEM STAB BACKFILL REINF VOLUME SINGLE SLOPE CONC TRAFFIC BARRIER MOUNTABLE CURB DRILL SEED TY 2 (42 IN) TYPICAL SECTIONS IH 45 @ SH 96 PROPOSED 58842 ES MOISTABL 0 <u>C</u>. a t e

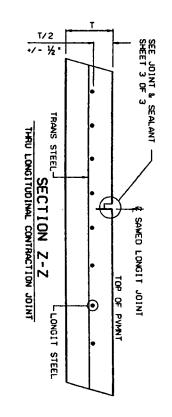
N. T. S.





·/- ½\*





OF PVMNT	STAGGER SPL AS PER
	STAGGER SPLICE LOCATIONS AS PER ITEM 360 7 MULTI PIECE TI
9	TRANS CONSTR JT (  ITEM 360   ID'-NO LAPS ALLOWED  IN LONGIT STEEL  MULTI PIECE TIE BARS-LAP & WELD  WATCH SPAC.) 3 E
	T & WHEN CONNECTING TO EXIST CRCP, PROVIDE MALE TIE BARS. LAP & WELD WITH LONGITUDINAL STEEL  3. END LONGIT STL(TYP)

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AT END OF PROJECT OR TEMPORARY END OF PAVEMENT SECTION

1/2 •/- ½•

LLONGIT STEEL

MULTI PIECE TIE BARS ARE SPACED
 2 TIMES .c.. SPACE TIE BARS
 MIDWAY BETWEEN LONGIT STEEL

ALL STEEL

IS IN SAME PLANE

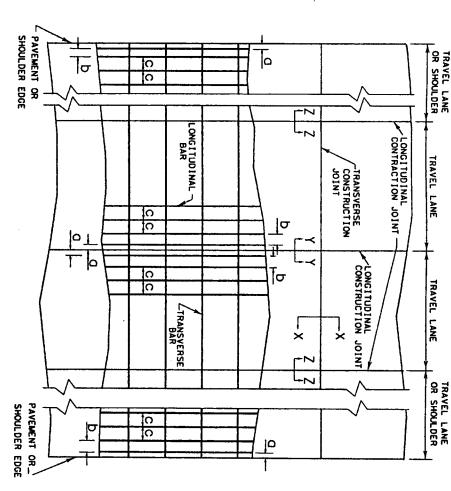
LMULTI PIECE TIE BARS®

SLAB THICKNESS AND BAR SIZE

PAVEMENT WIDTH (PW):DISTANCE IN FT. BETWEEN DOWEL JOINTS OR FROM A DOWEL JOINT TO A FREE EDGE, OR FROM A FREE EDGE TO A FREE EDGE.

TABLE NO. 2 TRANSVERSE STEEL

FUTURE PUMNT



## TPICAL PAVEMENT LAYOUT

ت	12	=	10	9	8	(IN.)	SLAB THICKNES		
*6	<b>*</b> 6	<b>*6</b>	*6	*6	*6	BAR SIZE	SLAB THICKNESS AND BAR SIZE	TAB	
5.5	6	6.5	7	8	9	SPACING	REGULAR STEEL BARS	TABLE NO. 1 LO	
3 70 4	3 TO 4	3 70 4	3 70 4	3 70 4	3 70 4	SPACING	FIRST SPACING AT EDGE OR JOINT	LONG I TUD I NAL	
3 TO 5.5	3 70 6	3 70 6.5	3 TO 7	3 TO 8	3 10 9	SPACING b (IN.)	SECOND SPACING FROM EDGE OR JOINT	VAL STEEL	
11	12	13	14	16	18	SPACING 2 × c (IN.)	ADDITIONAL STEEL BARS / TRANSVERSE CONST. JOINT	·	
42	42	42	42	42	42	LENGTH	ITIONAL BARS AT NSVERSE T. JOINT		
	*	X							

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	*											
	8.5	8	7	6.5	6	5.5	*****	, ,	SPACE			
i	34	18	21	22	24	26	12′	REQ	E	暑	8	
	46	24	28	30	32	35	16,	ACE	MIN	11	Š	A
	64	33	38	41	•	48	22'	N OR	Ē	5	æ	E
1	88	36	41	15	8	52	24.	T AR		Ž	뗤	ğ
	78	41	47	50	54	59	27:	RIOUS FIDIHS	MBER OF	511	M N	J
	86	51	59	63	68	74	ų.	Ľ₹		TE	171	
	108	57	65	70	76	83	38.	PICAL ft)	BARS			

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	*		*										
**INCLUDES BOTH MATS OF	9. 5	9	8.5	8	7	6. 5	6	5.5	*****	, ,	SPACE	1	
DE:	32	17	34	18	21	22	24	26	12,	REG	E	28	5
8	42	22	46	24	28	30	32	35	16,	LACE I	Z	111	?
Ŧ	56	30	64	33	38	41	44	48	22'	¥9	₹	52	P
MAT	62	33	68	36	41	45	48	52	24.	VAR.	NUMBER	¥ 2	2
S	70	37	78	41	47	50	54	59	27:	RIOUS WIDTHS	ER OF	22	Š
	88	46	98	51	59	63	68	74	3.			E ,	7
STEEL	98	51	108	57	65	70	76	83	38′	YPICAL (ft)	BARS		
											_		_

- 5 MECHANICALLY PLACING REINFORCING STE NOT ALLOWED. NO BARS, DOWELS OR TIE MAY BE VIBRATED INTO POSITION. EEL IS
- 17. WHERE DIFFERENT THICKNESS PAVEMENTS MEET,
  TRANSITION THE THINNER SECTION TO THE THICKER
  SECTION OVER A DISTANCE OF 10'. PLACE REINFORCING
  STEEL WITHIN THE TRANSITION THE SAME AS IN THE THICKER PAVEMENT.
- PERFORM WELDING PER ITEM 448. FURNISH WELDABLE REBAR PER ITEM 440.

8.

## GENERAL NOTES

USE COARSE AGGREGATE TO PRODUCE CONCRETE WITH A COEFFICIENT OF THERMAL EXPANSION (COTE) LESS THAN 6.0×10 -61n/in /F° PRIOR TO CONSTRUCTION SUBMIT TEST SPECIMENT TO TXDOT, CONSTRUCTION DIVISION, FOR AGGREGATE ACCEPTANCE. PROVIDE SAMPLES OR TEST SPECIMENS AS DIRECTED. TXDOT CONSTRUCTION DIVISION WILL PERFORM THE TESTING. TEST RESULTS ARE FINAL. TESTING IS REQUIRED FOR NATURALLY OCCURING AGGREGATES.

- DETAIL CROSS-S FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS.
- 3. LONGITUDINAL AND TRANSVERSE REINFORCING STEEL SHALL BE \*6 DEFORMED STEEL BARS CONFORMING TO ASTM A 615 (GRADE 60) OR ASTM A 996 (GRADE 60).
- THE DETAIL FOR THE JOINT SEALANT AND RESERVOIR IS SHOWN ON SHEET 3 OF 3. AVOID SAWED JOINTS IN WHEEL PATH.
- PAVEMENT WIDTHS OF MORE THAN 15 FT. SHALL HAVE A LONGITUDINAL JOINT (SECTION Z-Z OR Y-Y). THESE JOINTS SHALL BE LOCATED WITHIN 6 IN. OF THE LANE LINE UNLESS THE JOINT LOCATION IS SHOWN ELSEWHERE ON THE PLANS,
- THE SAW CUT DEPTH FOR THE LONGITUDINAL JOINT SHALL BE MINIMUM OF ONE THIRD THE SLAB THICKNESS. IT MAY BE MINIMUM OF ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.

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REINFORCING STEEL SPLICES SHALL BE A MINIMUM OF 25 IN.

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- MULTIPLE PIECE TIEBARS SHALL BE USED AT LONGITUDINAL CONSTRUCTION JOINTS UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE TIEBARS SHALL BE #6 BARS. THE TIEBAR SPACING SHALL BE EQUAL TO THE TRANSVERSE BAR SPACING.
- STEEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1 IN. HORIZONTALLY AND +/- 0.5 IN. VERTICALLY. THE AVERAGE BAR SPACINGS SHALL CONFORM TO TABLE NO.1 AND TABLE NO.2.

MISSING ( 4G OR DAMAGED TIEBARS SHALL BE REPLACED BY DRILLING AND GROUTING AT THE CONTRACTOR'S EXPENSE.

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- = AT TRA SHALL I STEEL BARS. ANSVERSE CONSTRUCTION JOINTS, THE ADDITIONAL STEEL BARS BE PLACED APPROXIMATELY MIDWAY BETWEEN THE LONGITUDINAL
- CONSOLIDATION WITH HAND-MANIPULATED MECHANICAL VIBRATORS IS REQUIRED ADJACENT TO ALL TRANSVERSE CONSTRUCTION JOINTS.

12.

- 13. OBTAIN THE ENGINNEER'S WRITTEN APPROVAL, IF THE CONCRETE DESIGN USES MORE THAN 5.5 SACKS/CY.
- DOWELS DOWELS I AND TIE BARS - DOWELS ARE ONE INCH MINIMUM DIAMETER. ENSURE ARE FREE OF GREASE AND ARE EPOXY COATED. DO NOT SHEAR CUT DURING FABRICATION. PROVIDE TIE BARS PER ITEM 360. FURNISH PIECE TIE BARS AND DOWELS WITH STOP COUPLINGS AND WITH THREADS
- 15. USE CHAIRS OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO SUPPORT THE MAT TO THE VERTICAL TOLERANCES. CHAIRS WILL BE APPROVED BY THE ENGINEER AND DO NOT REQUIRE GALVANIZING. MAXIMUM CHAIR SPACING IS 30" TRANSVERSELY AND 48" LONGITUDINALLY. WHEN USING THE HARDIE CHAIR-LOK SYSTEM, THE CHAIR SPACING MAY BE EVENLY SPACED INTO A DIAMOND OR SQUARE PATTERN DO NOT EXCEED 1.67 SY PER CHAIR NOR 60" LONGITUDINAL SPACING.

Texas Department of Transportation Haustan District

SHEET 1 OF 3

CONTINUOUSI Y RF INFORCED

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	G.		œ.		DOT APRIL 2007
			CRCP	С	
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