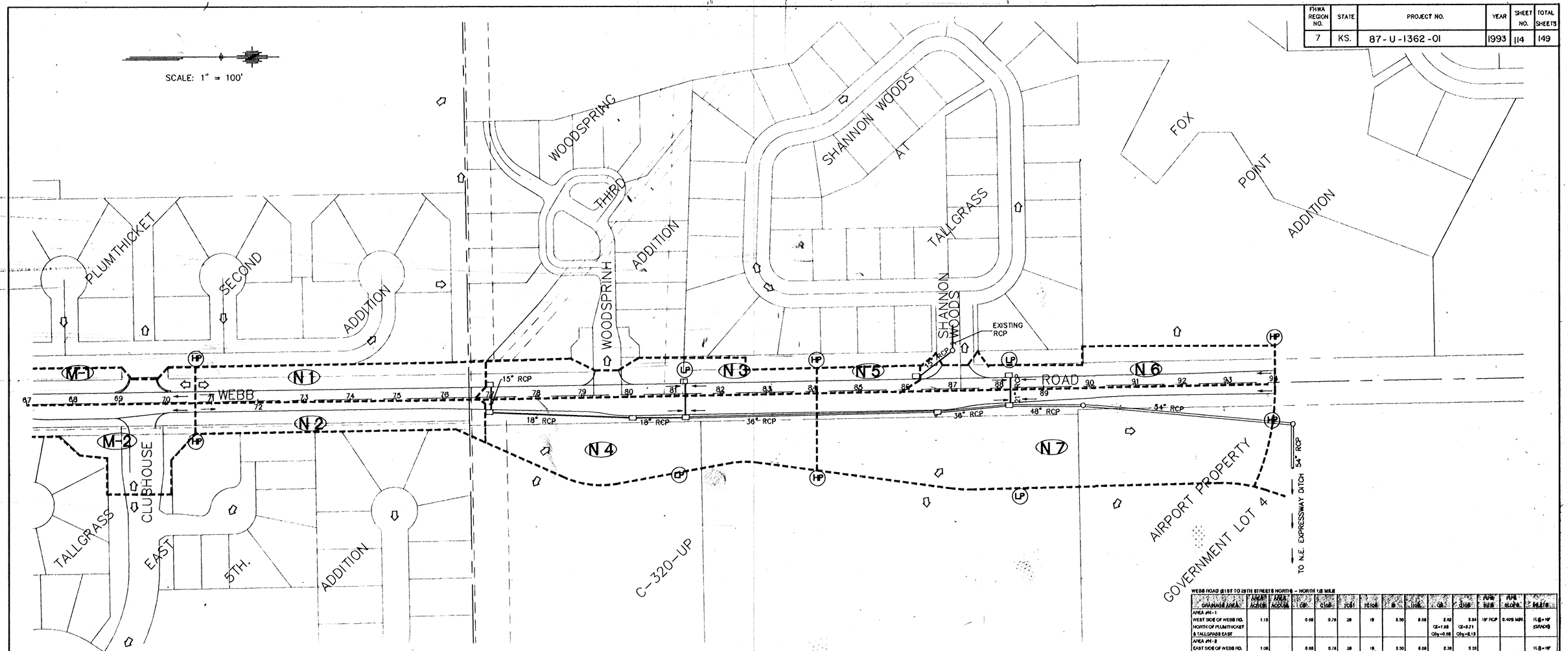
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KS.	87-U-1362-01	1993	114	149



WEBB ROAD @1ST TO 29TH STREETS NORTH – SOUTH OF 21ST STREET

DRAINAGE AREA	AREA ACRES	AREA ACCUM.	C CF	C100	TC CF	TC100	B CF	B100	CB	CB100	PIPE SIZE	PIPE SLOPE	INLETS
AREA #S-1 NORTH SIDE OF 21ST ST.N. C.O.W. WATER PUMP STA.	7.17		0.54	0.68	48	31	2.68	5.32	10.38	25.94	30" RCP	0.40%	AREA INLET
AREA #S-2 EXISTING 24" RCP							ASSUMED DESIGN Q > 30 CFS						
AREA #S-3 NORTH SIDE OF 21ST ST.N. WEST OF WEBB ROAD	1.07		0.71	0.81	15	15	4.56	7.37	3.46	8.39			1L@=10' (PUMP)
		8.24 (±)	0.58	0.70	48	31	2.68	5.32	12.4	30.7			
									42.4	60.7	48" RCP	0.20%	
AREA #S-4 SOUTH SIDE OF 21ST ST.N. WEST OF WEBB ROAD	0.98		0.71	0.81	15	15	4.56	7.37	3.17	5.85			1L@=5'
AREA #S-5 EXISTING 36"X60" HERCP							ASSUMED DESIGN Q > 85 CFS						
		9.22(±)	0.58	0.71	42	31	2.68	5.32	14.3	34.8			
									129.3	150.0	48" RCP	1.20%	
AREA #S-6 NORTH END OF WILSON PROPERTY	6.66		0.66	0.91	15	15	4.56	7.37	26.9	46.0	42" RCP	0.25%	AREA INLET (FUTURE)
AREA #S-8 EAST SIDE OF WEBB RD. SOUTH OF 21ST ST. N.	0.74		0.71	0.81	15	15	4.56	7.37	2.40 Q1=1.79 Qby=0.61	4.42 Q1=2.95 Qby=1.47	15" RCP	0.40% MIN.	1L@=10'
AREA #S-7 WEST SIDE OF WEBB RD. SOUTH OF 21ST ST.N.	0.74		0.71	0.81	15	15	4.56	7.37	2.40 Q1=1.79 Qby=0.61	4.42 Q1=2.95 Qby=1.47			1L@=10'
		17.56(±)	0.70	0.86	48	31	2.68	5.32	56.8	74.7			
									148.0	190.0	66" RCP or 8'x4' RCB	0.35%	
AREA #S-9 MIDDLE PART OF WILSON PROPERTY	11.2		0.66	0.91	15	15	4.56	7.37	43.9	75.1	48" RCP	0.30%	AREA INLET (FUTURE)
		28.76(±)	0.78	0.84	48	31	2.68	5.32	58.6	12.9			
									174.0	244.0	REPLACE EXISTING 2 - 5'X8' RCB WITH 2 - 6'X8' RCB		

WEBB ROAD @1ST TO 29TH STREETS NORTH – 1/2 MILE NORTH OF 21ST STREET NORTH

DRAINAGE AREA	AREA ACRES	AREA ACCUM.	CB	C100	TC	TC100	B	B100	CB	C100	PIPE SIZE	PIPE SLOPE	INLETS
AREA #M-1 WEST SIDE OF WEBB RD. SOUTH OF PLUMTHICKET & TALLGRASS EAST	0.71		0.71	0.81	15	15	4.56	7.37	2.30 Q1=1.54 Qby=0.76	4.24 Q1=2.53 Qby=1.71	15" RCP	0.40% MIN.	1L@=10' (GRADE)
AREA #M-2 EAST SIDE OF WEBB RD. SOUTH OF PLUMTHICKET & TALLGRASS EAST	1.06		0.71	0.81	15	15	4.56	7.37	3.43 Q1=2.19 Qby=1.30	6.33 Q1=3.38 Qby=2.89			1L@=10' (GRADE)
		1.77							Q1=3.87	Q1=6.08	15" RCP	1.00%	
AREA #M-3 WEST SIDE OF WEBB RD. NEAR SOUTH END OF PLUMTHICKET	0.80		0.66	0.78	16	15	4.43	7.32	2.30 Q1=1.54 Qby=1.12	4.48 Q1=2.45 Qby=2.76	15" RCP	0.40% MIN.	1L@=10' (GRADE)
AREA #M-4 EAST SIDE OF WEBB RD. NEAR SOUTH END OF PLUMTHICKET	0.87		0.66	0.78	16	15	4.43	7.32	1.90 Q1=2.03 Qby=1.20	3.73 Q1=3.58 Qby=2.94			1L@=10' (GRADE)
		3.24							Q1=7.64	Q1=13.1	21" RCP	1.00%	
AREA #M-5 WEST SIDE OF WEBB RD. SOUTH END OF BEND TREE	0.66		0.66	0.78	16	15	4.43	7.32	2.45 Q1=2.37 Qby=1.20	4.78 Q1=4.28 Qby=3.14	15" RCP	0.40%	1L@=10' (GRADE)
AREA #M-6 EAST SIDE OF WEBB RD. SOUTH END OF BEND TREE	0.71		0.66	0.78	15	15	4.56	7.32	2.20 Q1=2.28 Qby=1.18	4.08 Q1=4.19 Qby=2.88			1L@=10' (GRADE)
		4.90							12.3	21.6	24" RCP	1.00%	
AREA #M-8 C.O.W. WATER PUMP STATION	2.27		0.54	0.68	16	15	4.43	7.32	5.43	11.4	24" RCP	0.25%	2 DROP INLETS DOUBLE 24"x24" (PUMP)
AREA #M-7 WEST SIDE OF WEBB RD. AT 21ST ST. N.	0.78		0.71	0.81	15	15	4.56	7.32	2.59 +Qby=1.2 3.79	4.06 +Qby=3.14 7.99			1L@=10' (PUMP)
		8.06							8.16	19.20	30" RCP	0.25%	

WEBB ROAD @1ST TO 29TH STREETS NORTH – 1/2 MILE NORTH OF 21ST STREET NORTH

DRAINAGE AREA	AREA ACRES	AREA ACCUM.	CB	C100	TC	TC100	B	B100	CB	C100	PIPE SIZE	PIPE SLOPE	INLETS
AREA #M-9 EAST SIDE OF WEBB RD. AT 21ST ST.N.	1.05		0.71	0.81	15	15	4.56	7.37	3.40 +Qby=1.02 4.52	6.27 +Qby=2.66 8.18			1L@=10' (PUMP)
		8.90	0.66	0.78	20	18	4.00	6.54	23.1	48.3	48" RCP @	0.10% => 4	6' RCB
AREA #M-10 WEST PART OF TALLGRASS EAST COMMERCIAL	5.50		0.66	0.91	15	15	4.56	7.37	21.6	36.9	30" RCP	0.30%	2 DROP INLETS DOUBLE 24"x24" (FUT.) (PUMP)
AREA #M-11 NORTH SIDE OF 21ST ST.N. EAST OF WEBB RD.	0.30		0.71	0.81	15	15	4.56	7.37	0.97	1.79			1L@=9' (GRADE)
		14.7	0.73	0.86	20	18	4.00	6.54	42.9	92.4	60" RCP @	0.10% => 7	8' RCB
AREA #M-12 MIDDLE PART OF TALL-GRASS EAST COMMERCIAL	5.82		0.66	0.91	15	15	4.56	7.37	22.8	38.0	30" RCP	0.30%	2 DROP INLETS DOUBLE 24"x24" (FUT.) (PUMP)
AREA #M-13A SOUTH SIDE OF 21ST ST.N. MIDDLE OF TALLGRASS EAST COMMERCIAL	0.78		0.71	0.81	15	15	4.10	7.37	2.27 Q1=1.71 Qby=0.56	4.06 Q1=3.09 Qby=1.57	15" RCP	0.40% MIN.	1L@=10' (GRADE)
AREA #M-13 SOUTH SIDE OF 21ST ST.N. MIDDLE OF TALLGRASS EAST COMMERCIAL	0.48		0.74	0.83	15	15	4.56	7.37	1.62	2.94			1L@=5' (GRADE)
		21.79	0.76	0.84	20	18	4.00	6.54	66.2	125.0	72" RCP @	0.10% => 9	9' RCB
AREA #M-15 EAST PART OF TALLGRASS EAST COMMERCIAL (BO.)	2.89		0.66	0.91	15	15	4.56	7.37	11.3	18.4			
		24.67	0.77	0.85	20	18	4.00	6.54	2YR. 76.0	143			
TALLGRASS EAST GRAIN-AGE P.E.G. 11/7/88	50.0								2YR. 58.2	234.0			
TOTAL @ RCB UNDER 21ST STREET NORTH		74.67								377.0	REPLACE EXISTING 9'x4' WITH 2 9'x4' RCB		10'8' RCB

KANSAS DEPARTMENT OF TRANSPORTATION

WEBB ROAD PAVING PLAN

PROJECT NO. 87-U-1362-01 SEDGWICK CO.

MID-KANSAS ENGINEERING CONSULTANTS, INC.

WICHITA, KANSAS

DESIGNED BY: JNJ	CHECKED BY:	
DRAWN BY: DLM	DATE: MARCH, 1992	SHEET 114 OF 149