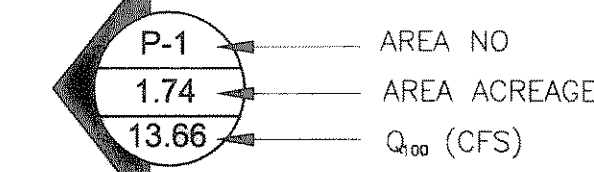


DRAINAGE AREA CALCULATION

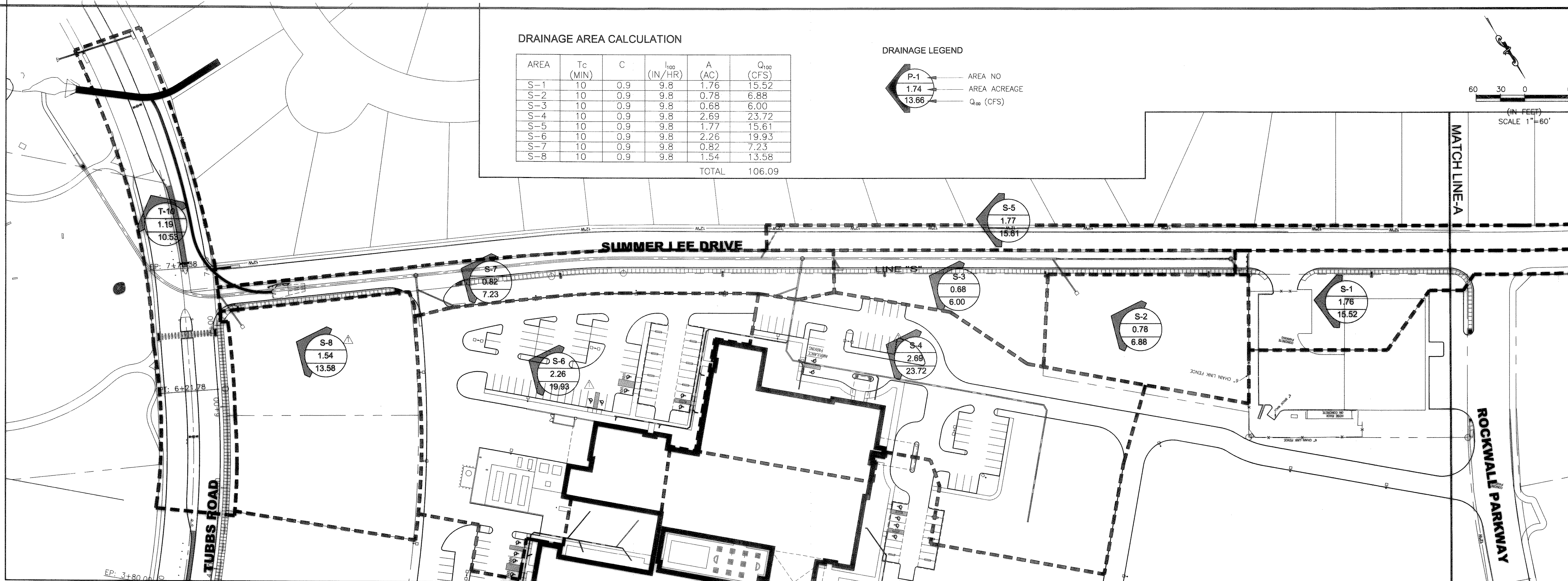
AREA	T _c (MIN)	C	I ₁₀₀ (IN/HR)	A (AC)	Q ₁₀₀ (CFS)
S-1	10	0.9	9.8	1.76	15.52
S-2	10	0.9	9.8	0.78	6.88
S-3	10	0.9	9.8	0.68	6.00
S-4	10	0.9	9.8	2.69	23.72
S-5	10	0.9	9.8	1.77	15.61
S-6	10	0.9	9.8	2.26	19.93
S-7	10	0.9	9.8	0.82	7.23
S-8	10	0.9	9.8	1.54	13.58
TOTAL					106.09

DRAINAGE LEGEND



60 30 0 60

(IN FEET)
SCALE 1"=60'

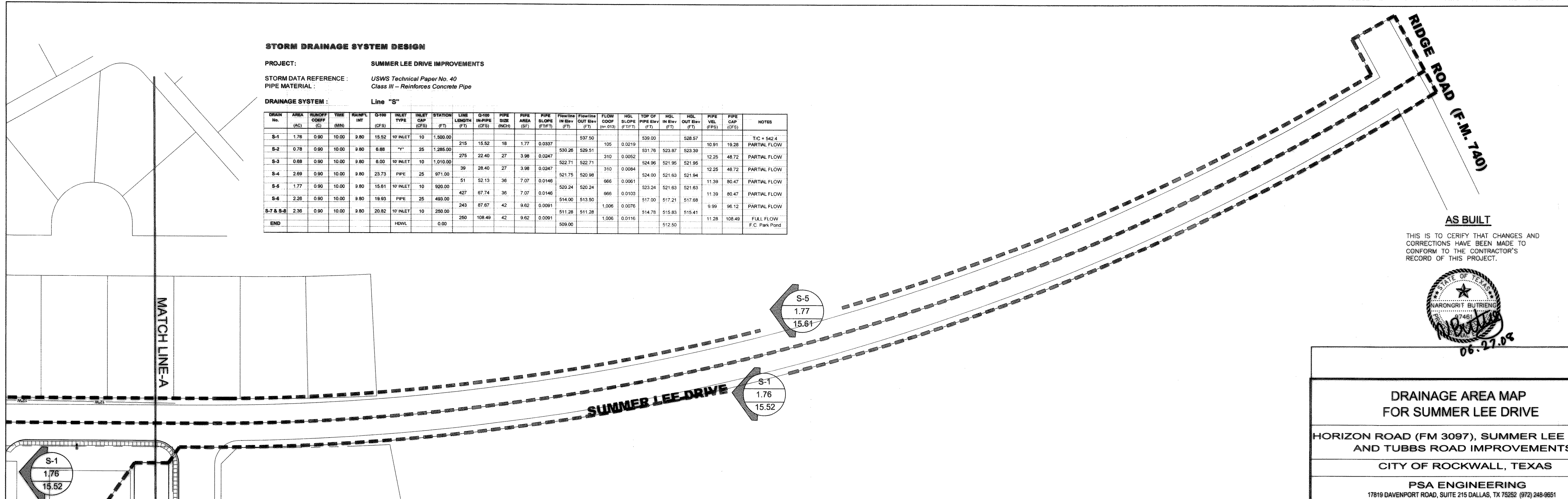


STORM DRAINAGE SYSTEM DESIGN

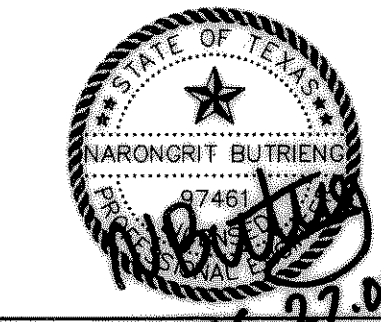
PROJECT: SUMMER LEE DRIVE IMPROVEMENTS
 STORM DATA REFERENCE: USWS Technical Paper No. 40
 PIPE MATERIAL: Class III - Reinforced Concrete Pipe

DRAINAGE SYSTEM: Line "S"

DRAIN NO.	AREA (AC)	RUNOFF COEFF	TIME (MIN)	RAINFALL INT (CFS)	Q-100 (CFS)	INLET TYPE	INLET CAP (CFS)	STATION (FT)	LINE LENGTH (FT)	Q-100 IN-PIPE (CFS)	PIPE SIZE (INCH)	PIPE AREA (SQ FT)	PIPE SLOPE (#/FT)	Flowline IN Elev (FT)	Flowline OUT Elev (FT)	FLOW COEF	HGL SLOPE (#/FT)	TOP OF PIPE Elev (FT)	HGL IN Elev (FT)	HGL OUT Elev (FT)	PIPE VEL (FPS)	PIPE CAP (CFS)	NOTES
S-1	1.76	0.90	10.00	9.80	15.52	10" INLET	10	1,500.00	215	15.52	18	1.77	0.0337	537.50	537.50	1.00	0.0219	539.00	528.57	10.91	19.28	15.52	TIC = 542.4 PARTIAL FLOW
S-2	0.78	0.90	10.00	9.80	6.88	"Y"	25	1,285.00	275	22.40	27	3.98	0.0247	530.28	529.51	1.00	0.0052	531.76	523.87	523.39	12.25	48.72	PARTIAL FLOW
S-3	0.68	0.90	10.00	9.80	6.00	10" INLET	10	1,010.00	39	28.40	27	3.98	0.0247	522.71	522.71	1.00	0.0084	524.96	521.95	521.95	12.25	48.72	PARTIAL FLOW
S-4	2.69	0.90	10.00	9.80	23.73	PIPE	25	971.00	51	52.13	36	7.07	0.0146	521.75	520.98	1.00	0.0061	524.00	521.63	521.94	11.39	80.47	PARTIAL FLOW
S-5	1.77	0.90	10.00	9.80	15.61	10" INLET	10	920.00	427	67.74	36	7.07	0.0146	520.24	520.24	1.00	0.0103	523.24	521.63	521.63	11.39	80.47	PARTIAL FLOW
S-6	2.26	0.90	10.00	9.80	19.93	PIPE	25	493.00	243	87.67	42	9.62	0.0091	514.00	513.50	1.00	0.0076	517.00	517.21	517.68	9.99	96.12	PARTIAL FLOW
S-7 & S-8	2.36	0.90	10.00	9.80	20.82	10" INLET	10	250.00	250	108.49	42	9.62	0.0091	511.28	511.28	1.00	0.0116	514.78	515.83	515.41	11.28	108.49	FILL FLOW F.C. Park Pond
END						HWAL		0.00						509.00	509.00					512.50			



AS BUILT
 THIS IS TO CERTIFY THAT CHANGES AND CORRECTIONS HAVE BEEN MADE TO CONFORM TO THE CONTRACTOR'S RECORD OF THIS PROJECT.



**DRAINAGE AREA MAP
FOR SUMMER LEE DRIVE**

HORIZON ROAD (FM 3097), SUMMER LEE DRIVE,
AND TUBBS ROAD IMPROVEMENTS

CITY OF ROCKWALL, TEXAS

PSA ENGINEERING
17819 DAVENPORT ROAD, SUITE 215 DALLAS, TX 75252 (972) 248-9651

DESIGN	DRAWN	DATE	SCALE	CHECK	FILE	NO.
RNB	PSA	06/27/08	AS SHOWN	PSS	2607.PHR	C-10