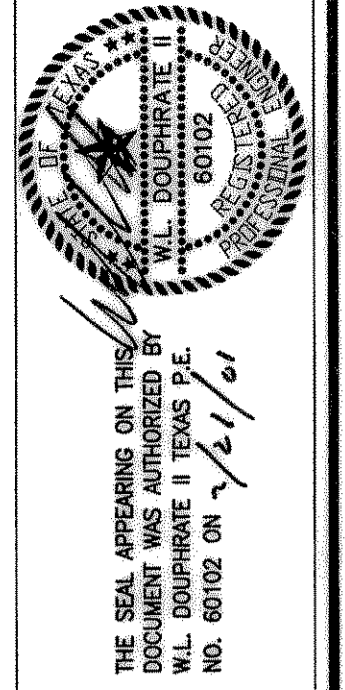
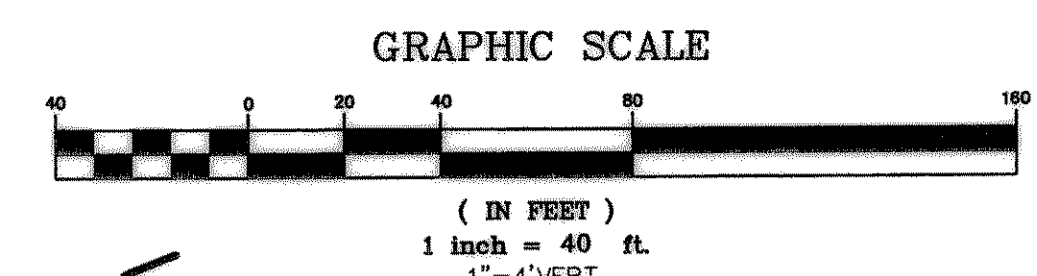
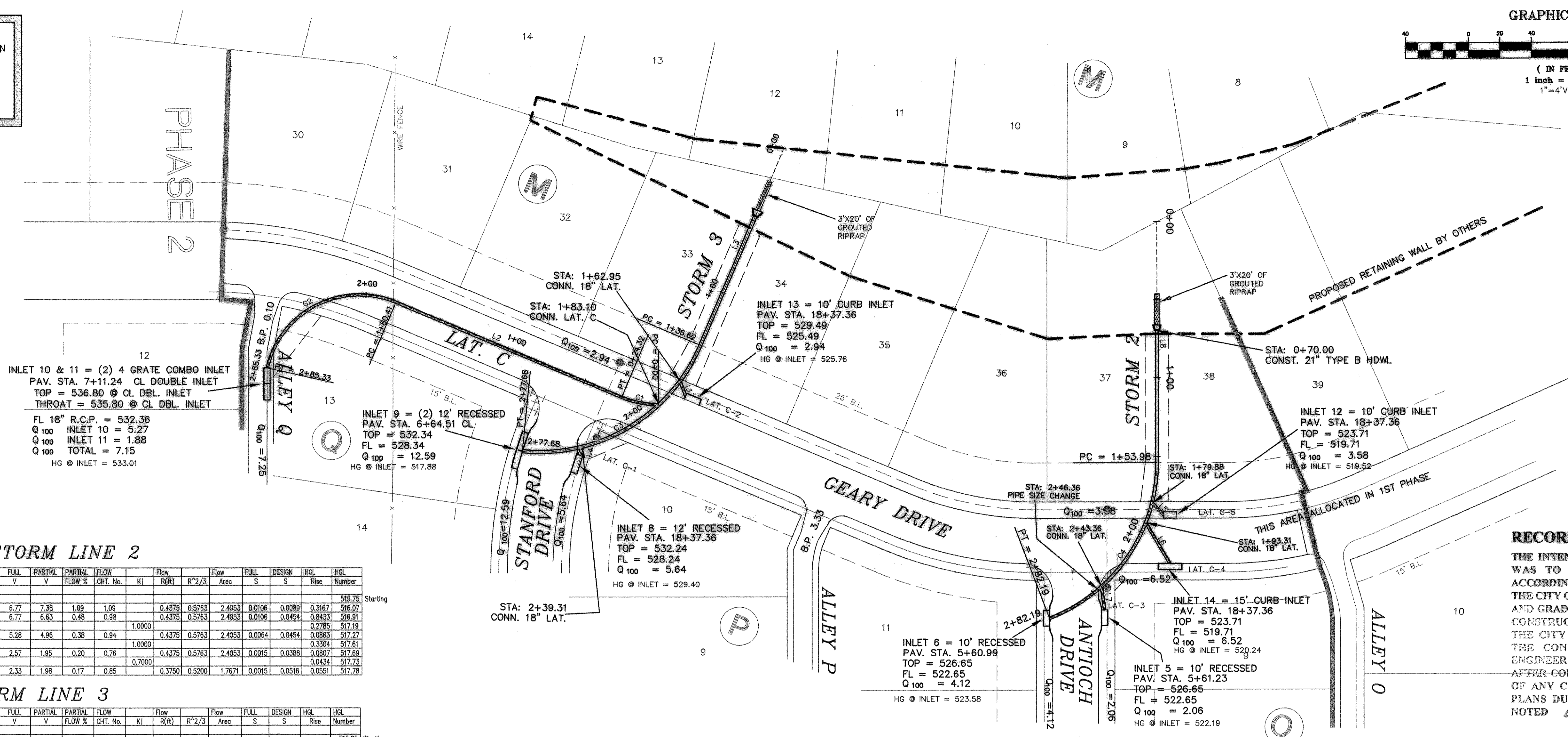


BENCHMARK:
BRASS CAP MONUMENT NO. 10 SET IN
CONCRETE IN THE CENTER OF GRASS
MEDIAN IN MASTERS DRIVE BETWEEN
NORTH LAKESHORE & SHORES BLVD.
N 7032464.6317, E 2589554.1518
ELEV. = 524.62



DOUPHRA
& ASSOCIATES, INC.
ENGINEERING - PROJECT MANAGEMENT - SURVEYING
2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
PHONE: (972)771-9004 FAX: (972)771-9005



STORM LINE 2

From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	FLOW CHT. No.	K1	R(H)	R ² /3	Flow Area	FULL S	DESIGN S	HGL Rise	HGL Number
STM -2	100.00	70	30		16.28	21	14.85	6.77	7.38	1.09	1.09		0.4375	0.5763	2.4053	0.0108	0.0089	0.3167	515.75
	178.88	100	79.88		16.28	21	33.76	6.77	6.63	0.48	0.98	1.0000	0.4375	0.5763	2.4053	0.0106	0.0454	0.8433	516.91
	183.31	179.88	13.43		12.7	21	33.76	5.28	4.96	0.38	0.94		0.4375	0.5763	2.4053	0.0054	0.0454	0.0863	517.27
	246.38	193.31	53.05		6.18	21	31.21	2.57	1.86	0.20	0.76	1.0000	0.4375	0.5763	2.4053	0.0015	0.0388	0.0907	517.61
	282.19	246.38	35.83		4.12	18	23.86	2.33	1.98	0.17	0.85	0.7000	0.3750	0.5200	1.7671	0.0015	0.0516	0.0551	517.78

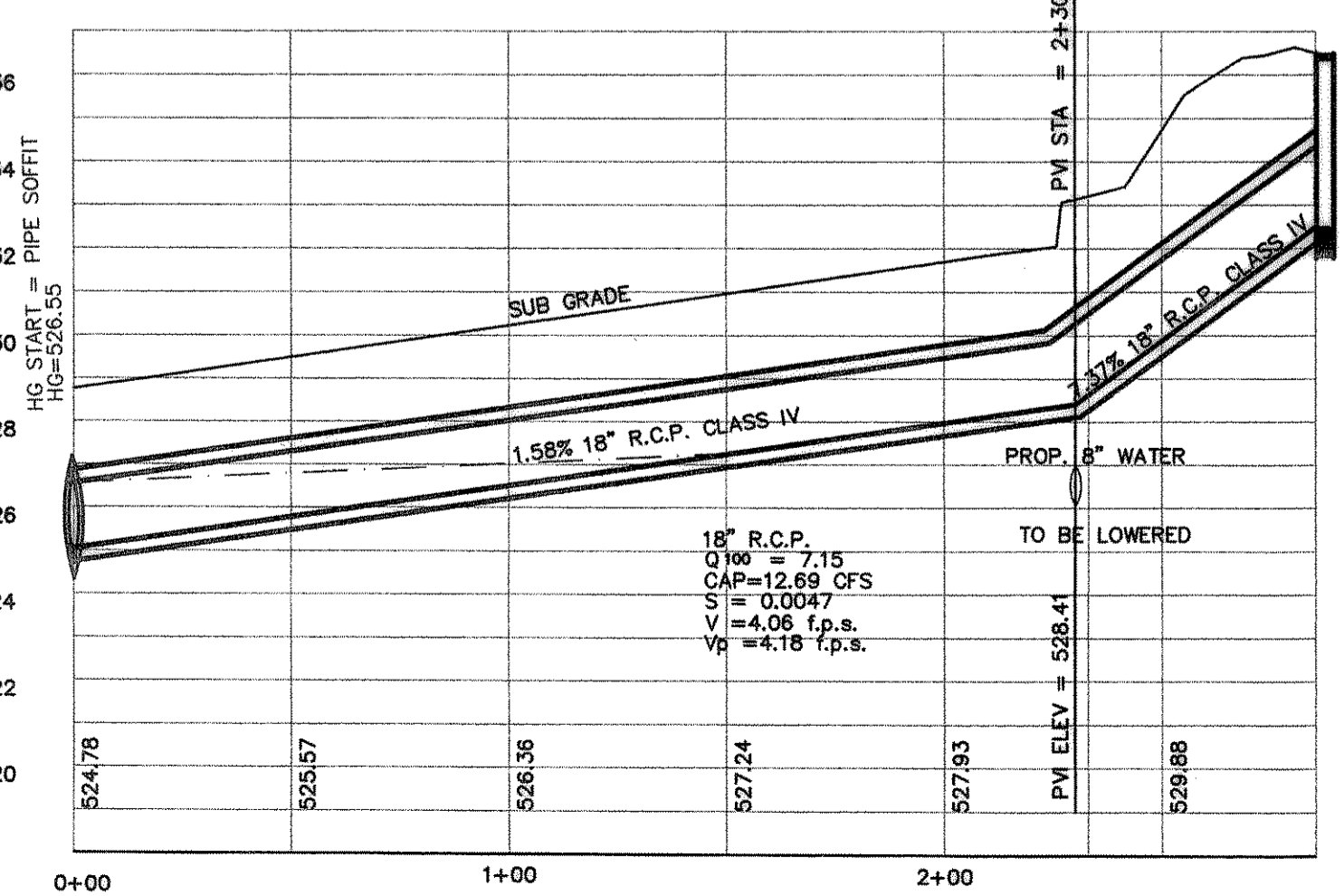
STORM LINE 3

From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	FLOW CHT. No.	K1	R(H)	R ² /3	Flow Area	FULL S	DESIGN S	HGL Rise	HGL Number
STM -3	75.00	47	28		28.32	27	30.97	7.12	8.12	0.91	1.14		0.5625	0.6814	3.9761	0.0084	0.0100	0.2341	515.25
	162.95	75	87.95		28.32	24	78.04	9.01	8.11	0.36	0.90	0.4000	0.5000	0.6300	3.1416	0.0157	0.1190	1.3783	517.15
	183.10	162.95	20.15		25.38	24	45.02	8.08	8.32	0.56	1.03		0.5000	0.6300	3.1416	0.0126	0.0396	0.2538	517.40
	239.31	183.1	56.21		18.23	24	45.02	5.80	5.51	0.40	0.95		0.5000	0.6300	3.1416	0.0095	0.0396	0.3850	517.76
	277.67	239.31	38.36		12.59	24	45.02	4.01	3.61	0.28	0.90		0.5000	0.6300	3.1416	0.0031	0.0396	0.1188	517.88

LATERAL C

From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	FLOW CHT. No.	K1	R(H)	R ² /3	Flow Area	FULL S	DESIGN S	HGL Rise	HGL Number
LATERAL C	285.31	0	285.31		7.18	18	12.68	4.06	4.18	0.57	1.03		0.3750	0.5200	1.7671	0.0047	0.0148	1.3330	527.88

LATERAL C

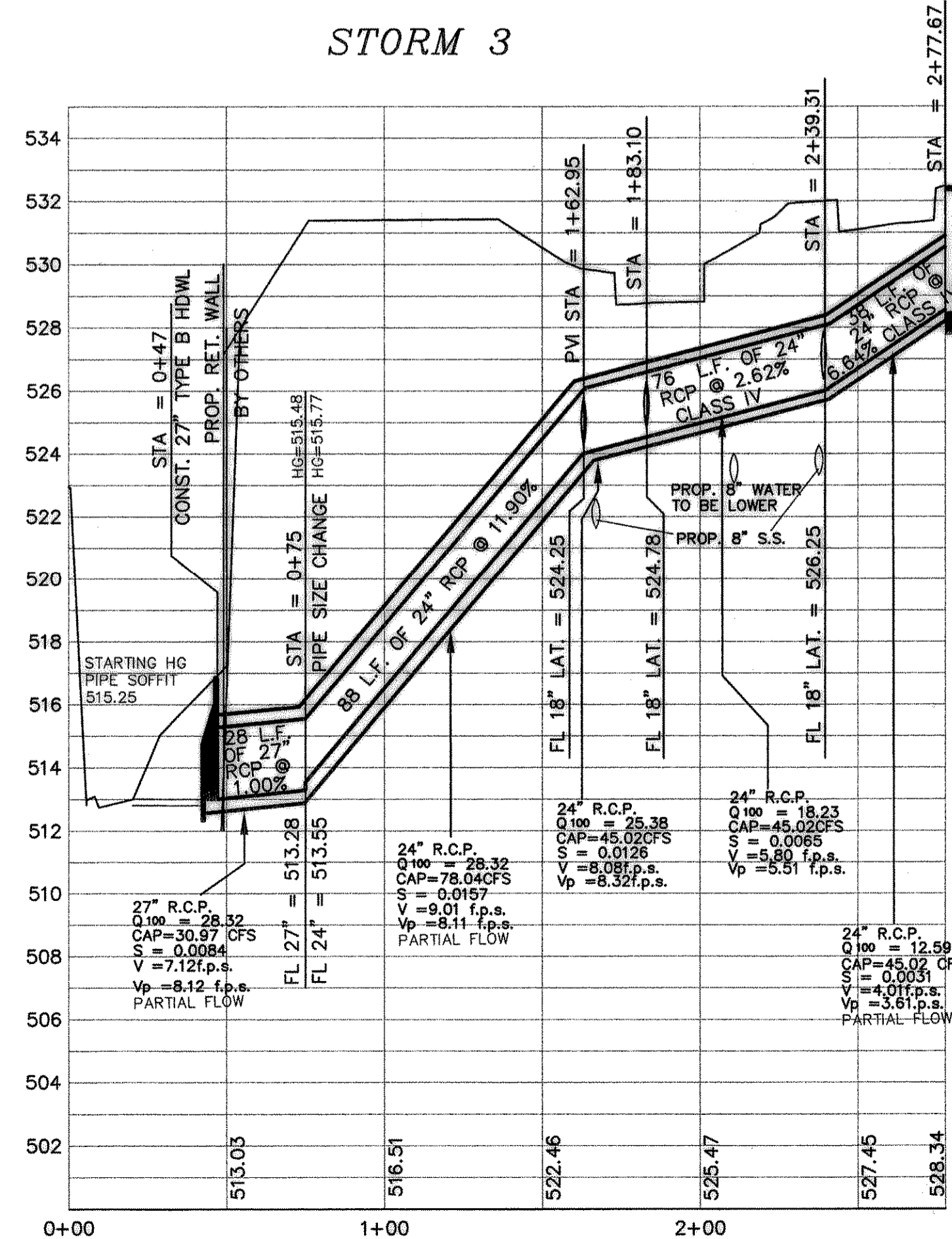


LINE TABLE

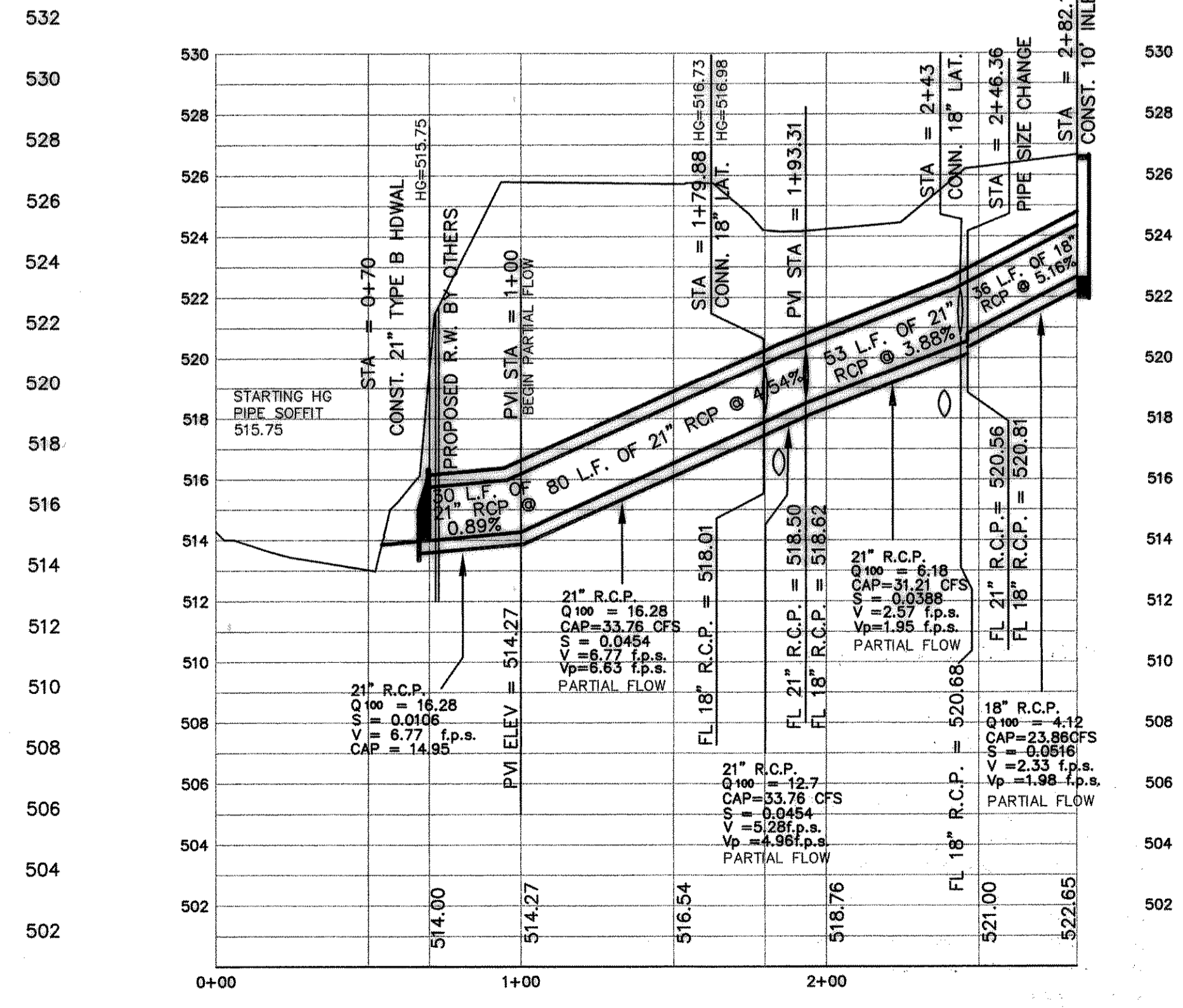
LINE	LENGTH	BEARING
L1	10.27'	N21°57'53"W
L2	156.09'	N68°10'40"W
L3	136.62'	S21°49'20"W
L4	5.55'	N16°09'35"E
L5	10.78'	N44°14'16"W
L6	30.28'	N31°42'49"W
L7	15.00'	N08°53'02"W
L8	153.99'	S01°05'46"E

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CH BRG	CH DIST	DELTA
C1	24.32	60.00	12.33	S79°47'19"E	24.15	231°18'
C2	104.92	60.00	71.75	S61°43'31"W	92.06	100°11'38"
C3	141.06	111.21	81.80	N58°09'35"E	131.79	72°40'29"
C4	128.21	106.32	73.20	N33°27'01"E	120.58	69°08'32"



STORM 2



RECORD DRAWINGS:
THE INTENT OF THE OWNER AND ENGINEER
WAS TO CONSTRUCT THESE FACILITIES
ACCORDING TO THESE PLANS AS APPROVED BY
THE CITY OF ROCKWALL. THE LINES
AND GRADES WERE SET ON THE GROUND FOR
CONSTRUCTION ACCORDING TO SAID PLANS.
THE CITY OF ROCKWALL INSPECTED
THE CONSTRUCTION. THE OWNER NOR
ENGINEER DID NOT VERIFY LINES OR GRADES
AFTER CONSTRUCTION. WE ARE NOT AWARE
OF ANY CHANGES OR REVISIONS TO THESE
PLANS DURING CONSTRUCTION EXCEPT AS
NOTED 4/18/02

STORM SEWER PLAN & PROFILE
STORM SEWER LINE 1 AND LATERAL A
LAKEVIEW SUMMIT PHASE 1A
CITY OF ROCKWALL, COUNTY OF ROCKWALL

REVISION
W.L.D.
CHECKED
K.E.B.
DRAWN
6/6/00
DATE
9919-1Astrml-A
PROJECT