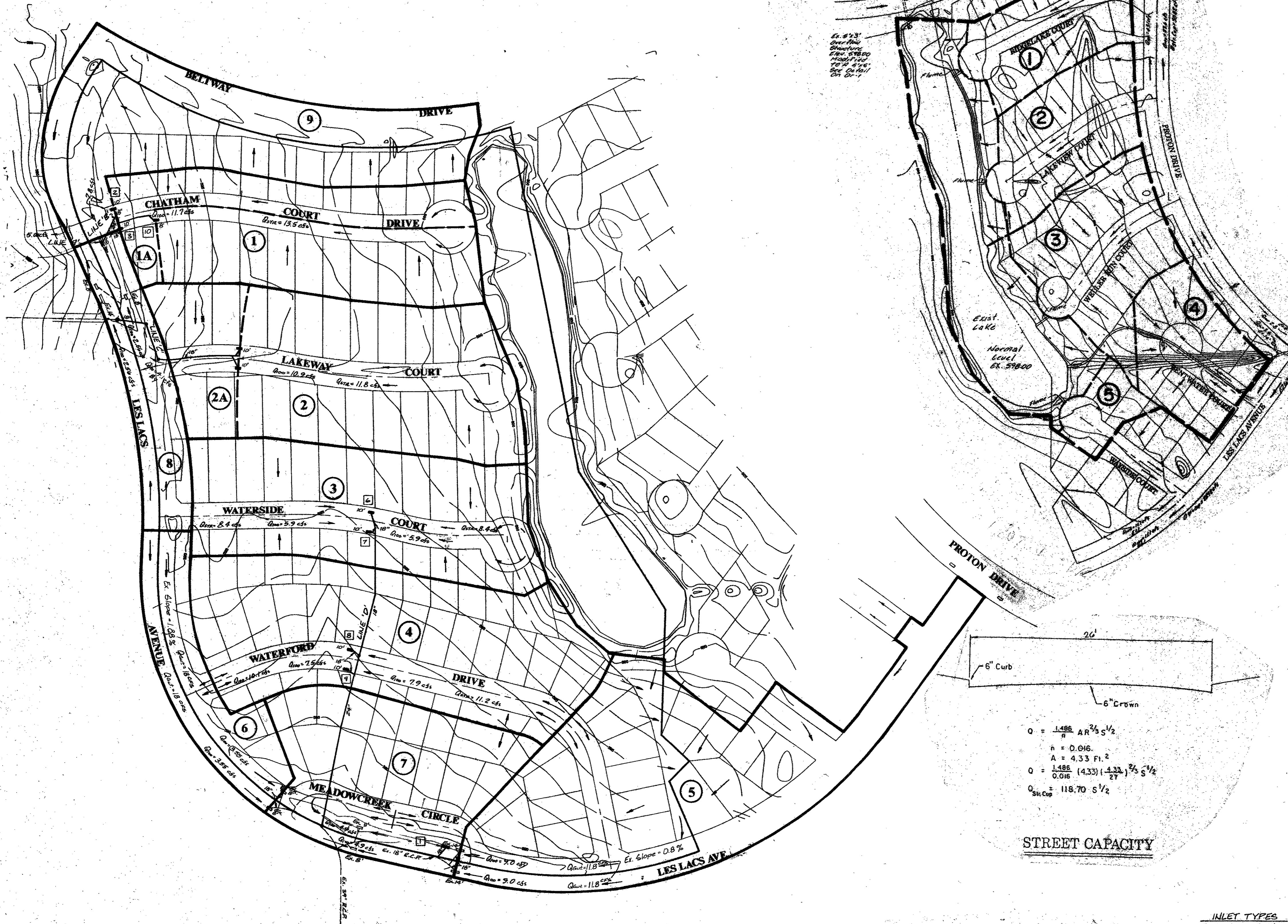
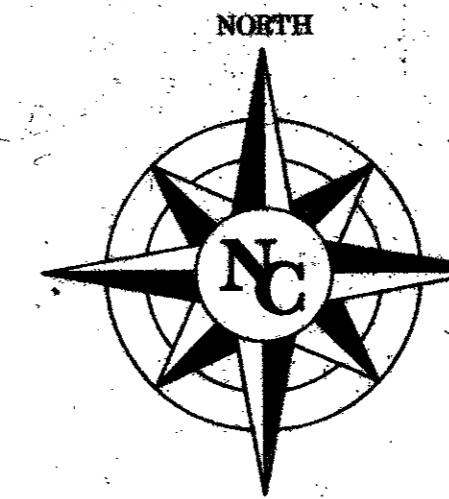


Revisions	Date	Description	Drawn By	Checked By



TOTAL ON SITE DRAINAGE INTO EXIST. LAKE (ADJACENT)

$Q = CA$
 $C = 0.60$
 $A = 140 \text{ Acres}$
 $Q = (0.6)(140) = 84 \text{ cfs}$

TOTAL $Q_{max} = 137.44 \text{ cfs}$

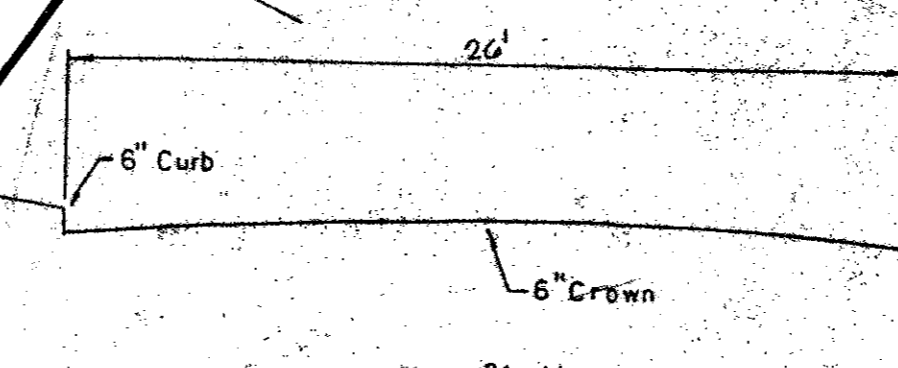
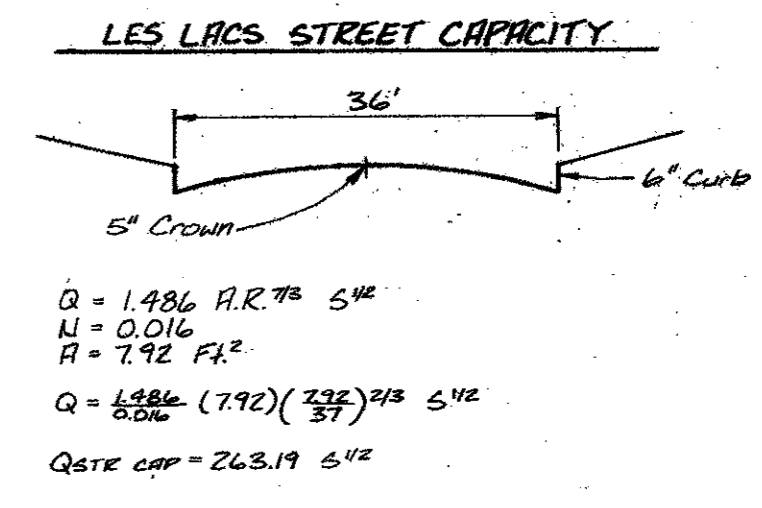
EXISTING OVERFLOW STRUCTURE (W/LET CONTROL)

5' x 5' Box Intake
 Overflow Structure Elev. 598.00

$Q = CA$
 $H = \frac{(400)^2}{2.9}$

$H = \frac{(137.44)^2}{2(38.2)} = 1.00'$

100 YEAR ELEV. = 598.00 + 1.00 = 599.00



$Q = 1.486 \text{ A R}^{2.48} S^{1/2}$
 $n = 0.016$
 $A = 4.33 \text{ Ft}^2$
 $Q = 1.486 (4.33) (1.33)^{2.48} S^{1/2}$
 $Q_{Sk Cap} = 118.70 S^{1/2}$

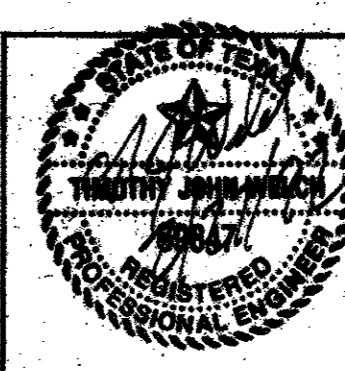
STREET CAPACITY

Area No.	Area	Lc	C	CR	Inlet	Area	Area	Inlet	Inlet
1	2	3	4	5	6	7	8	9	10
1	1.96	15	0.5	0.98	7.52	7.40	7.40	1-8'	I
2	2.9	15	0.5	1.45	7.52	10.9	10.9	2-10'	I
2A	1.1	15	0.5	0.85	7.52	4.10	4.1	By-Flow	-
3	3.1	15	0.5	1.55	7.52	11.7	11.7	2-10'	IA
4	4.1	15	0.5	2.05	7.52	15.4	15.4	2-10'	IA
5	4.8	15	0.5	2.40	7.52	18.0	18.0	2-10'	IA
6	1.9	15	0.5	0.95	7.52	7.1	7.1	2-8'	IA
7	2.6	15	0.5	1.3	7.52	9.8	9.8	2-8'	IA
8	1.95	15	0.5	0.68	7.52	5.11	5.11	2-8'	I
9	3.4	15	0.5	1.7	7.52	12.8	12.8	*	*

DRAINAGE AREA MAP

- LEGEND**
- DRAINAGE AREA LINE
 - EXIST. CONTOUR LINE
 - PROP. STORM SEWER LINE
 - EXIST. STORM SEWER LINE
 - ① DRAINAGE AREA
 - ② INLET NUMBER

INLET TYPES
 I - Inlet On Grade
 IA - Inlet In Sag



WATERFORD PARK II
 TOWN OF ADDISON, TEXAS

Date: DECEMBER, 1991 Scale: 1" = 100'
 Drawn By: TNC Approved By: TNC SHEET DA-1 OF 6 SHEETS

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