

8095A
0.32
JUL 2 1960
ESTATE OF EDUARD GUTIERREZ
FILED JUL 13, 1960
VOLUME 13, FOLD 152

$$A_{PCW} = -2247.61 \text{ J}$$

LIT 3
STATE OF EMILIANO GUTIERREZ
FILED: JULY 13, 1960
VOLUME 83, FILE 1152

21. 8" PVC
PIPE TO
SPOUTS
F DRAINS

PROPOSED
30' X 12' POOL
(BY OTHERS)

LOT 6 P1
VACANT LAND

$$FF = 69.33$$

A BUILD SOUTH

$$= 1856.5584$$

281V
311.26

APWT 4967
= 3001φ
4966

$R_{imp} = 431$

$$-A_{imp} = 639.43$$

-APOL
017.56

$$A_{imp} = 1731.574$$

CONRADO LANE 18'

4
BASIN
= 2

PAVEMENT

CONFIDENTIAL ESTATE OF 1968

ASPHALT

-CONCRETE WALK

N 78°40'48" W

$$A_{\text{TOTAL}} = 12630.39 \text{ \#} = 0.28955 \text{ AC}$$

LOT 6

7/24/14

BASIN A

$$A_{A_{\text{TOT}}} = 4203.31 \text{ \#} = 0.09649 \text{ AC}$$

$$A_{\text{PERV}} = 2247.6075 = 0.05160 \text{ AC}$$

$$\text{@ 50\% LS: } A_C = 0.02580$$

$$A_B = 0.0280$$

$$A_D = A_{A_{\text{TOT}}} - A_{\text{PERV}} = 1955.70 \text{ \#} = 0.04490 \text{ AC}$$

BASIN B

$$A_{B_{\text{TOT}}} = 8427.32 \text{ \#} = 0.19346 \text{ AC}$$

$$A_{\text{PERV}} = 3081.34 \text{ \#}$$

$$+ 311.26 \text{ \#}$$

$$+ 1017.91 \text{ \#}$$

$$4410.51 \text{ \#} = 0.10125 \text{ AC}$$

@ 50% LS:

$$A_C = 0.05063 \text{ AC}$$

$$A_B = 0.05063 \text{ AC}$$

$$A_D = A_{B_{\text{TOT}}} - A_{\text{PERV}} = 8427.32 - 4410.51 = 4016.81 \text{ \#}$$

$$= 0.09221 \text{ AC}$$

$$\text{TOTAL BASINS: } A_{\text{TOT}} = 0.29 \text{ AC}$$

$$A_C = 0.02580 + 0.05063 = 0.07643 \text{ AC}$$

$$A_B = \quad \quad \quad = 0.07643 \text{ AC}$$

$$A_D = 0.04490 + 0.09221 = 0.13711 \text{ AC} / 0.29 \text{ AC}$$

$$= 47\% \text{ OK}$$

North Pond $P_{10} = 10 - (24.9 / (P_{1440})^{1.4})$

$$P_{10} = 10 - 24.9 / (2.75)^{1.4}$$

$$= 10 - 6.04$$

$$= 3.95 \text{ in}$$

$$P_{1440} = 2.75$$

24hr (Louvato)

$$P_{360} = 2.35$$

(6hr) Louvato

$$P_{10} = 3.95 \text{ in}$$

$$V_{10 \text{ DAY}} = V_{360} + [A_D * (P_{10} - P_{360}) / 12 / \text{ft}]$$

(V_{100-6hr})

$$= 0.0120 + [0.0449 (3.95^{1.6} - 2.35) / 12 / \text{ft}]$$

$$= 0.0120 + 0.0060 = 0.01799 \text{ AC-FT} = 783 \text{ AC-FT}$$

South Pond $P_{10} = 3.95 \text{ in}$, $P_{1440} = 2.75 \text{ in}$, $P_{360} = 2.35$

$$V_{10 \text{ DAY}} = V_{360} + [A_D * (P_{10} - P_{360}) / 12 / \text{ft}]$$

(V_{100-6hr})

$$= 0.0243 + 0.0022 (1.6 / 12 / \text{ft})$$

$$= 0.0243 + 0.01229 = 0.03659 \text{ AC-FT} = 1594 \text{ cfs}$$

Total BASINS: $V_A + V_B = 2377 \text{ cfs}$

$V_{\text{TOTAL POND}} \text{ Louvato Report: } 1474 \text{ cfs} + 1089 \text{ cfs} = 2563 \text{ cfs}$

LOT 6 North Pond

$$V_{REQ} = 783 \text{ cfs}$$

7/24/14

66 to 67.5 267.5

<u>Elev</u>	<u>Area</u>	$D = 1.5$
① 66-67.5	473 (vertical)	
② 67-67.5	177 (prism)	

$$① V_1 = (473) 1.5 = 710 \text{ cfs}$$

$$② V_2 = \frac{1}{2}(177+0) 1.5 = 133 \text{ cfs}$$

$$V_{TOT} = V_1 + V_2 = 842 \text{ cfs} > 783 \checkmark$$

LOT 6 South Pond

<u>Elev</u>	<u>Area</u>	<u>Vol</u>	<u>EVol</u>
65.5	688	0	0
66	795		
67	1090		
67.23	1204		

$$V_{REQ} = 1594 \text{ cfs}$$

65.5 $\rightarrow$ 67 (vert)

$$V_1 = \frac{1}{2}(688 + 1090) 1.5 = 1344 \text{ cfs}$$

$$V_2 = \frac{1}{2}(1204 + 1090) .23 = 264 \text{ cfs}$$

$$V_{TOT} = V_1 + V_2 = 1598 < 1594 \text{ cfs}$$