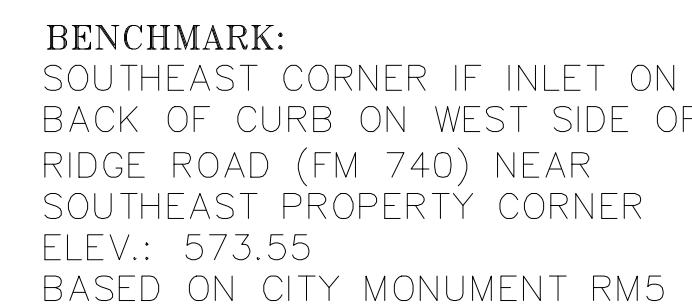


W. W. Lloyd Garrison

DATE: 12/17/15

DRAINAGE AREA NO.	ACRES	T.C. (INCH.)	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.	COMMENTS
1	0.07	10	0.5	9.8	0.34	0.34	PASS THROUGH
2	0.15	"	0.9	"	1.32	1.66	
3	0.06	"	0.5	"	0.29	1.95	



LEGEND

DA 1
0.07 AC.

$$\frac{\text{DRAINAGE AREA NO. 1}}{\text{DRAINAGE AREA}}$$

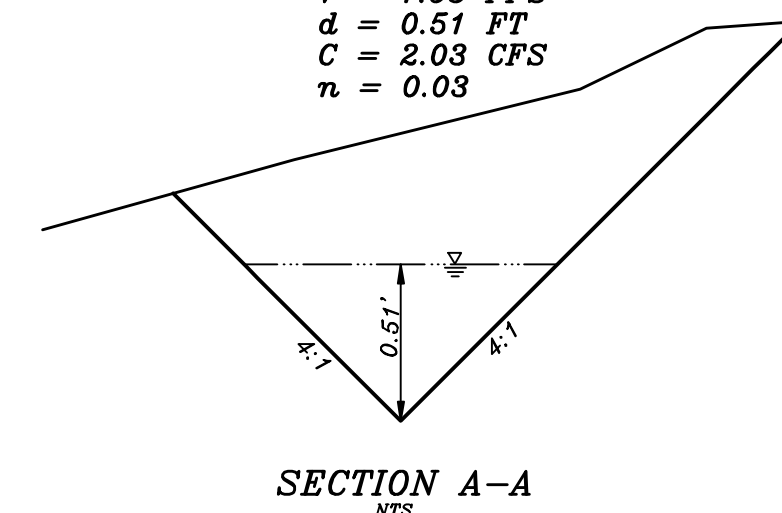
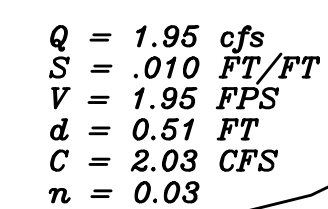
FLOW ARROWS

WEIR CALCULATIONS

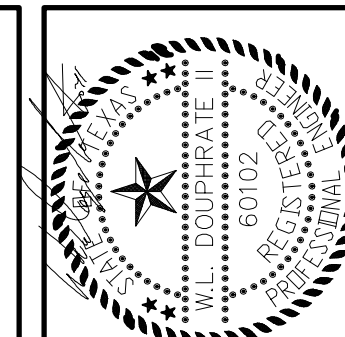
Rectangular Suppressed Weir

$Q = 3.33 \text{ h}^{3/2} (L - 2\text{h})$
 $Q = \text{Exist. Conditions Flowrate} = 1.078 \text{ cfs}$
 $\text{h} = \text{Height of Weir} = 12 \text{ in.} = 1 \text{ ft.}$
 $L = \text{Length of Weir}$

$$1.078 = 3.33 (1)^{1.5} (L - .2(1))$$

$$L = 0.53 \text{ ft.} = 6.3 \text{ in.}$$


STORAGE VOLUME STAGE					
STORM	d	ELEVATION	VOLUME	Qallowable	Qactual
5 YR	0.60	577.15	927	0.671	0.671
10 YR	0.70	577.25	1178.4	0.792	0.792
25 YR	0.80	577.35	1013.4	0.902	0.902
100 YR	1.00	577.55	817.8	1.078	1.078



THE SEAL APPEARING ON THIS
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J.W.L. DOUPHRETE II TEXAS P.E.
NO. 60102, F-886, ON
DATE: JUNE 16, 2015.

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**DRAINAGE AREA MAP
PREGNANCY RESOURCE CENTER
1010 RIDGE ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS**

REVISION

W.L.D

CHECKED

GCW

DRAWN

SCALE
1"=10' H

$$1'' = \frac{1}{V} \text{ V}$$

JUNE 16, 2011

DATE _____

15011

PROJECT

6 OF 8