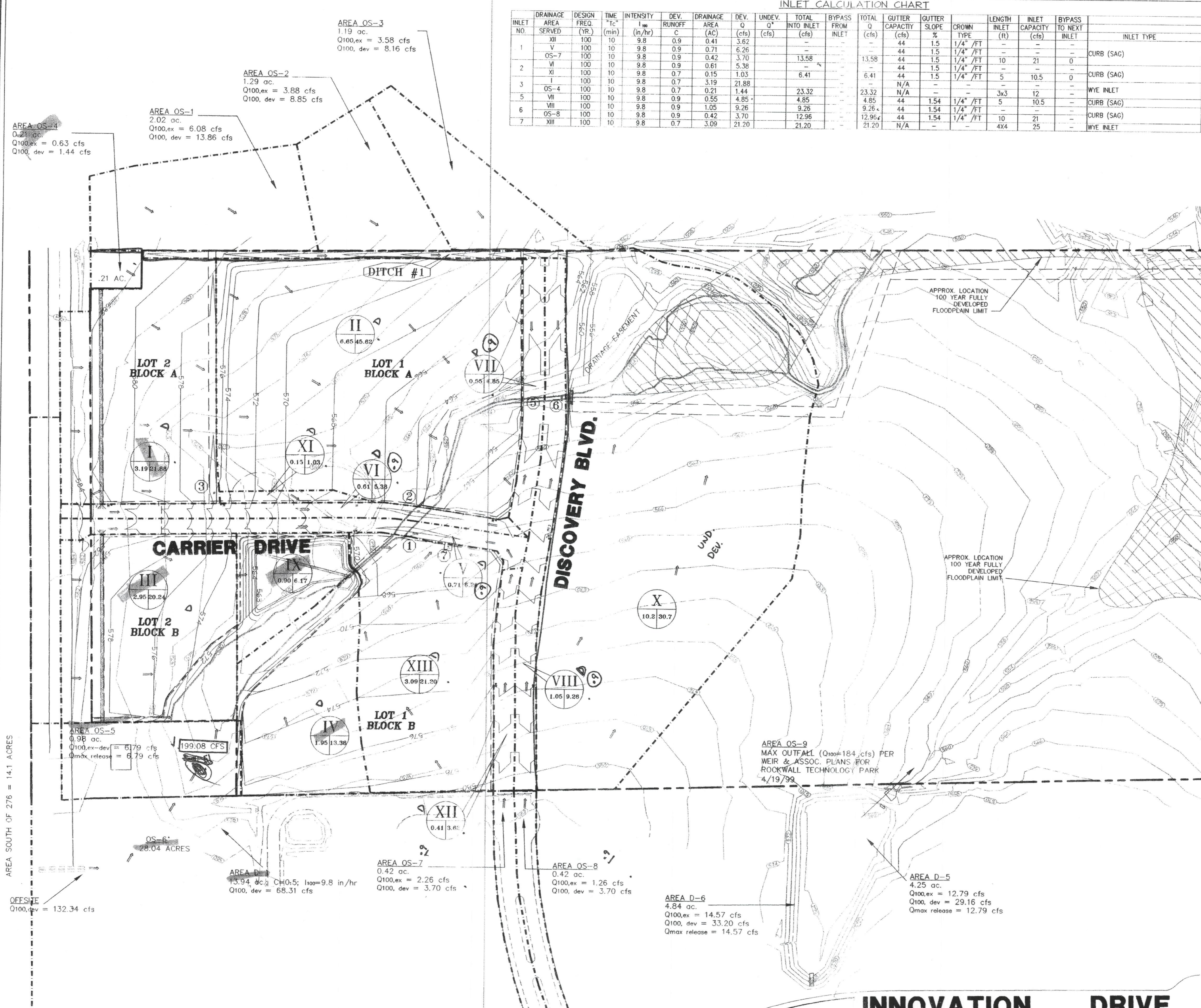


INLET CALCULATION CHART

INLET NO.	DRAINAGE AREA SERVED	DESIGN FREQ. (YR.)	TIME "Tc" (min)	INTENSITY I ₁₀₀ (in/hr)	DEV. RUNOFF C	DRAINAGE AREA (AC)	DEV. Q (cfs)	UNDEV. Q (cfs)	TOTAL INTO INLET (cfs)	BYPASS FROM INLET	TOTAL Q (cfs)	GUTTER CAPACITY (cfs)	GUTTER SLOPE %	CROWN TYPE	LENGTH (ft)	INLET CAPACITY (cfs)	BYPASS TO NEXT INLET	INLET TYPE
1	VII	100	10	9.8	0.9	0.41	3.62	-	-	-	-	44	1.5	1/4" / FT	-	-	-	CURB (SAG)
2	OS-7	100	10	9.8	0.9	0.42	3.70	-	13.58	-	13.58	44	1.5	1/4" / FT	10	21	0	CURB (SAG)
3	I	100	10	9.8	0.7	0.15	1.03	-	6.41	-	6.41	44	1.5	1/4" / FT	5	10.5	0	CURB (SAG)
5	OS-4	100	10	9.8	0.7	0.21	1.44	-	23.32	-	23.32	N/A	-	-	3x3	12	-	WYE INLET
6	VII	100	10	9.8	0.9	0.55	4.85	-	4.85	-	4.85	44	1.54	1/4" / FT	5	10.5	-	CURB (SAG)
7	OS-8	100	10	9.8	0.9	1.05	9.26	-	9.26	-	9.26	44	1.54	1/4" / FT	-	-	-	CURB (SAG)
7	XIII	100	10	9.8	0.7	3.09	21.20	-	12.96	-	12.96	44	1.54	1/4" / FT	10	21	-	CURB (SAG)
									21.20		21.20	N/A	-	-	4x4	25	-	WYE INLET

AREA #	C	I ₁₀₀	ACRES	Q ₁₀₀	DESCRIPTION
I	0.7	9.8	3.19	21.88	INLET #3
II	0.7	9.8	6.65	45.62	CULVERT #2
III	0.7	9.8	2.95	20.24	CULVERT #1
IV	0.7	9.8	1.95	13.38	CULVERT #1
V	0.9	9.8	0.71	6.26	INLET #1
VI	0.9	9.8	0.61	5.38	INLET #2
VII	0.9	9.8	0.55	4.85	INLET #5
VIII	0.9	9.8	1.05	9.26	INLET #6
IX	0.7	9.8	0.90	6.17	DETENTION POND
X	0.35	8.6	10.20	30.70	PH. 2 AREA TO EX. POND
XI	0.7	9.8	0.15	1.03	INLET #2
XII	0.9	9.8	0.41	3.62	INLET #1
XIII	0.7	9.8	3.09	21.20	INLET #7
OS-1	0.7	9.8	2.02	13.86	DITCH #1
OS-2	0.7	9.8	1.29	8.85	DITCH #1
OS-3	0.7	9.8	1.19	8.16	DITCH #1
OS-4	0.7	9.8	0.21	1.44	INLET #3
OS-5	0.7	9.8	2.02	13.86	ALLEN ANDERSON PROPERTY
OS-6	0.7	9.8	28.04	192.35	OFFSITE S. OF 276 & PORTION OF TECH PARK
OS-7	0.9	9.8	0.42	3.70	INLET #1
OS-8	0.9	9.8	0.42	3.70	INLET #6
OS-9	-	-	-	184.00	MAX. OUTFLOW - TECH PARK POND



INLET LIST

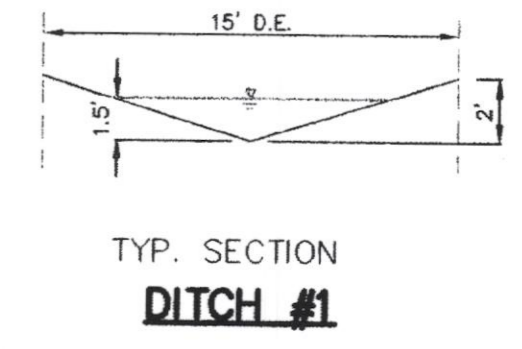
INLET NO.	INLET TYPE
1	10' - CURB (SAG)
2	5' - CURB (SAG)
3	3'x3' - WYE INLET
5	5' - CURB (SAG)
6	10' - CURB (SAG)
7	3'x3' - WYE INLET

DITCH #1

Given Input Data:
 Shape: Trapezoidal
 Solving for: Depth of Flow
 Flowrate: 30.8700 cfs
 Slope: 0.0171 ft/ft
 Manning's n: 0.0350
 Height: 24.0000 in
 Bottom width: 0.0000 in
 Left slope: 0.3300 ft/ft (V/H)
 Right slope: 0.3300 ft/ft (V/H)

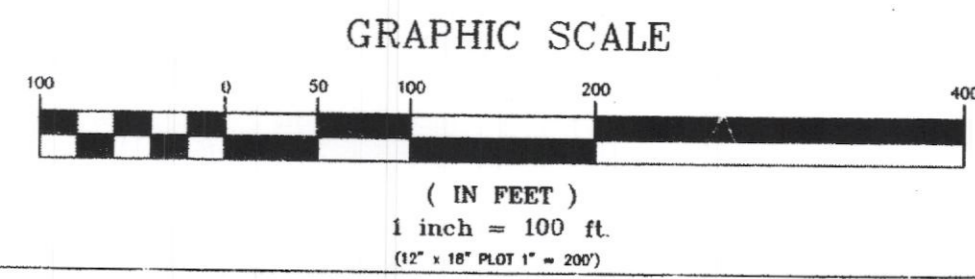
Computed Results:
 Depth: 18.1510 in
 Velocity: 4.4526 fps
 Full Flowrate: 63.0176 cfs
 Flow area: 6.9331 ft²
 Flow perimeter: 115.8412 in
 Hydraulic radius: 8.6184 in
 Top width: 110.0062 in
 Area: 12.1212 ft²
 Perimeter: 153.1699 in
 Percent full: 75.6292 %

Critical Information:
 Critical depth: 17.4223 in
 Critical slope: 0.0213 ft/ft
 Critical velocity: 4.8328 fps
 Critical area: 6.3878 ft²
 Critical perimeter: 111.1908 in
 Critical hydraulic radius: 8.2724 in
 Critical top width: 105.5899 in
 Specific energy: 1.8207 ft
 Minimum energy: 2.7178 ft
 Froude number: 0.9026
 Flow condition: Subcritical

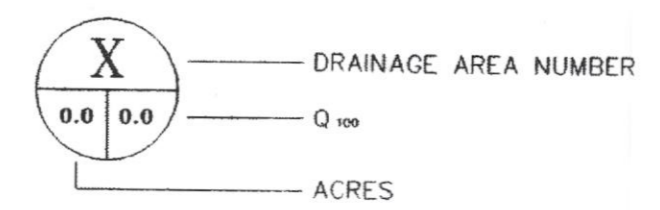


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GRADING NOTE: THE CONTRACTOR SHALL GRADE TO DRAIN INTO THE WYE INLETS SHOWN.



BENCHMARK: NW CORNER OF CONCRETE HEADWALL, +/- 285' EAST OF THE SOUTHEAST LOT CORNER OF TRACT & ALONG N. ROW LINE OF HWY 276. ELEV 581.52.



THE SEAL APPEARING ON THIS DOCUMENT WAS ISSUED BY W.L. DOUPHRATE II, TEXAS P.E. NO. 80102 ON

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 ENGINEERING - PROJECT MANAGEMENT - SURVEYING
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DRAINAGE AREA MAP
ROCKWALL DISTRIBUTION COMPLEX - PH. I
CITY OF ROCKWALL
COUNTY OF ROCKWALL

REVISION	PER. CITY COMMENTS	DATE	BY	CHKD.
1	PER. DEVELOPER	03/20/02		
2	PER. DEVELOPER	03/20/02		

CHECKED: W.L.D.
 DRAWN: S.A.L.
 DATE: 08/01
 DRAWING: 0033DAM
 PROJECT: 0033

5
490 1/2 H.
472-25