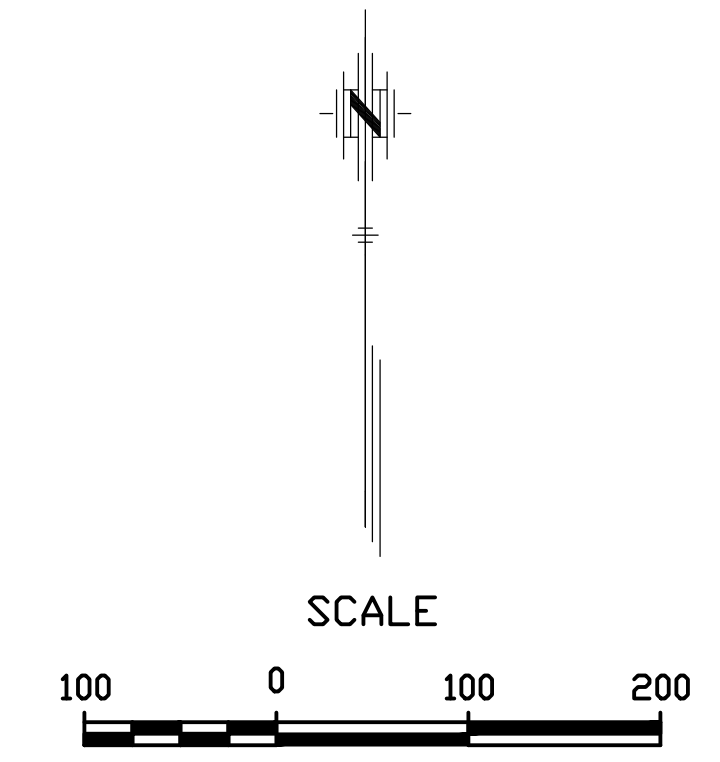
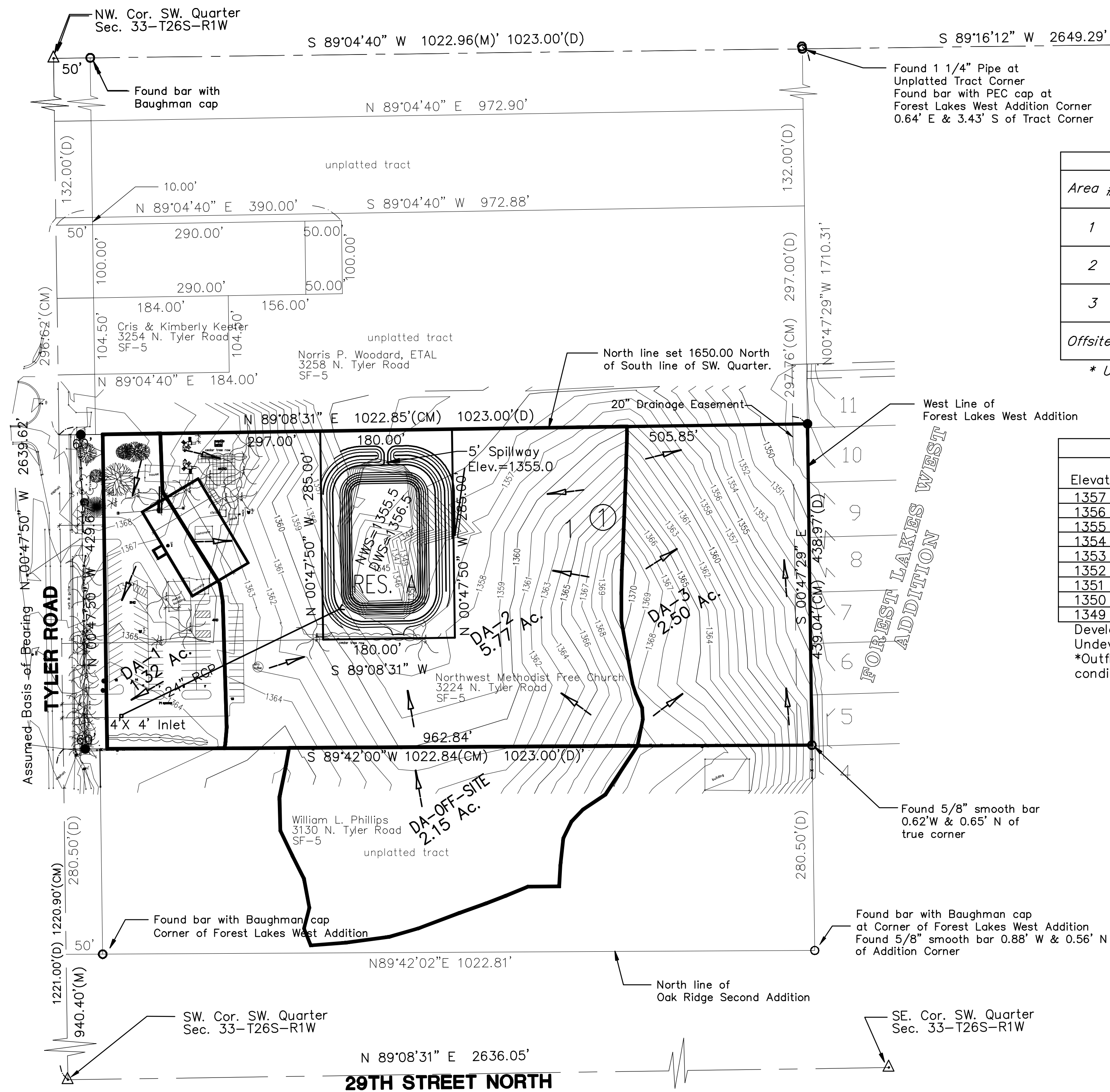


# DRAINAGE PLAN FOR NORTHWEST METHODIST ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



Area #	Area	I <sub>s</sub>	I <sub>100</sub>	Undeveloped			Developed		
				Q <sub>s</sub>	Q <sub>100</sub>	CN	CN	Q <sub>s</sub>	Q <sub>100</sub>
1	1.32	4.62	7.40	2.02	5.58	72.0	91.1	3.12	6.46
2	5.77	4.62	7.40	8.80	24.35	72.0	73.4	13.60	28.20
3	2.50	4.62	7.40	3.81	10.55	72.0	72.0	*	*
Offsite	2.15	4.62	7.40	3.28	9.06	72.0	72.0	*	*

\* Undeveloped

### LEGEND

- = 1/2" Iron Pipe (found)
- = 1/2" Rebar (found)
- = PK Nail (found)
- + = "+" Cut (found)
- ▲ = Section Corner
- (M) = Measured
- (P) = Platted
- R.O.W. = Right-of-Way

Elevation	Acres	Storage Acre-Ft.	Total Storage Acre-Ft.
1357	0.78	0.74	4.12
1356	0.71	0.68	3.37
1355	0.65	0.58	2.69
1354	0.51	0.49	2.10
1353	0.48	0.46	1.61
1352	0.44	0.42	1.15
1351	0.40	0.38	0.73
1350	0.37	0.35	0.35
1349	0.33	0.00	0.00

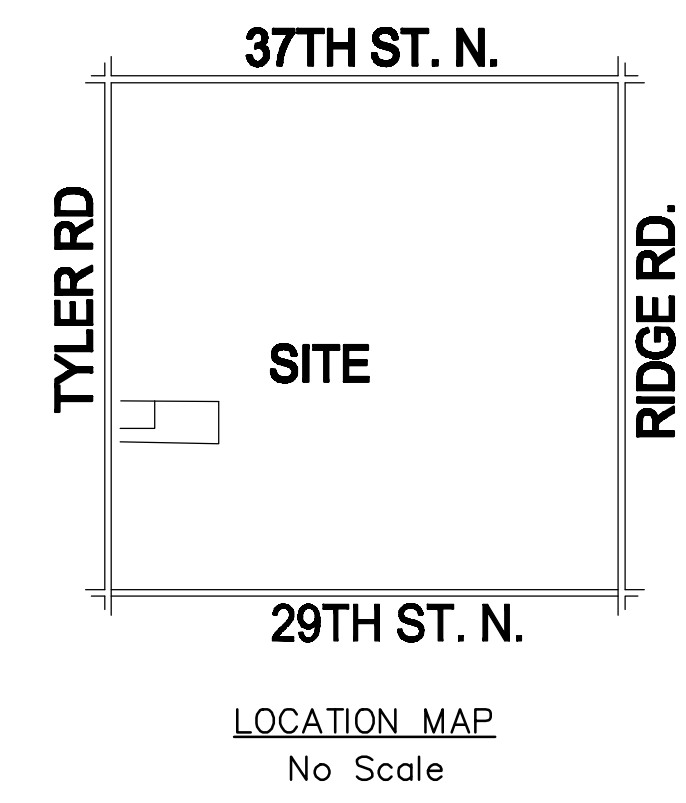
Elevation	Area S.F.	Acres	Storage Acre-Ft.	Total Storage Acre-Ft.
1356	43625.66	1.0015	0.9033	4.2467
1355	35073.41	0.8052	0.6616	3.3433
1354	22561.79	0.5179	0.4979	2.6818
1353	20819.47	0.4779	0.4585	2.1838
1352	19121.24	0.4390	0.4200	1.7254
1351	17467.12	0.4010	0.3824	1.3054
1350	15850.94	0.3639	0.3446	0.9229
1349	14166.63	0.3252	0.2695	0.5784
1348	9310.64	0.2137	0.1821	0.3089
1347	6551.59	0.1504	0.1268	0.1268
1346	4497.95	0.1033	0.0000	0.0000
1345	906.00	0.0208	0.0000	0.0000

Developed Peak Outflows\*: Q<sub>m</sub> = 15.70 cfs.  
 Undeveloped Peak Outflows\*: Q<sub>m</sub> = 19.17 cfs.  
 \*Outflow for a 5year event is 0 cfs. for both conditions

### LEGAL DESCRIPTION

A tract of land in the Southwest Quarter of Section 33, T26S, R1W of the 6th P.M., Sedgwick County, Kansas, being more particularly described as: Going Northerly on the West line of Section 33, T26S, R1W, a distance of 1221.00 feet North from the Southwest corner of said section for a point of beginning, thence turning right deflecting 90°29'21" and going Easterly a distance of 1023.00 feet, thence turning left deflecting 90°29'21" and going Northerly a distance of 438.97 feet, thence turning left deflecting 90°04' and going Westerly on a line 1650 feet North of and parallel with the South line of the Section, a distance of 666.00 feet, thence turning left deflecting 89°56' and going Southerly a distance of 288.38 feet, thence turning right deflecting 90°29'21" and going Westerly a distance of 357.00 feet to the West line of the Section, thence turning right (**left**) and going South 144.10 feet to the point of beginning enclosing 7.84 acres more or less.

AND:  
 Beginning at a point on the West line of Section Thirty-three (33), Township Twenty-six (26) South, Range One (1) West, a distance of 1365.00 feet North of the Southwest Corner of said Section Thirty-three (33), thence going Northerly on the same line a distance of 284.90 feet, thence turning right deflecting 89°56' and going Easterly on a line 1650.10 feet North of and parallel with the South line of said Section Thirty-three (33), a distance of 357.00 feet, thence turning right deflecting 90°04' and going Southerly a distance of 288.38 feet, thence turning right deflecting 29°29'20" and thence going Westerly a distance of 357.00 feet to the point of beginning, enclosing an area of 2.35 acres, more or less.



- NOTES:
- Determination of Q's was made using the rational method.
  - c's used were as follows:
- |                  |             |           |
|------------------|-------------|-----------|
|                  | Undeveloped | Developed |
| 5yr frequency    | 0.33        | 0.51      |
| 100 yr frequency | 0.57        | 0.66      |

No.	Date	By	Approved	Revision
1				
NORTHWEST METHODIST ADDITION DRAINAGE PLAN CITY OF WICHITA, KANSAS JIM ARMOUR P.E. - CITY ENGINEER				
<b>POE &amp; ASSOCIATES, INC.</b> CONSULTING ENGINEERS 8940 E. Central, Suite 200 in Wichita, KS 67208-4242 Phone 316/685-1114 in FAX 316/685-4444				
<b>PRELIM</b>				
Designed By: T. Austin Drawn By: S. Schmidt 874\Drainage.dwg Date: 07/05/06				
Sheet				

