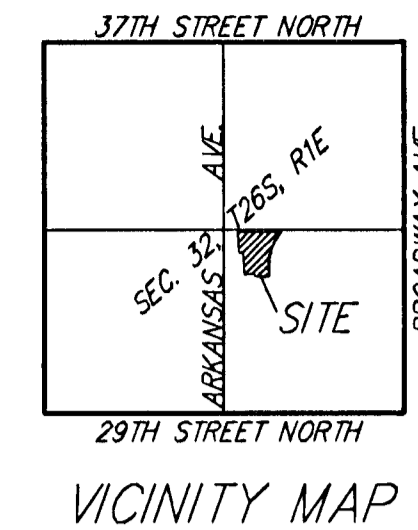


# DRAINAGE & GRADING PLAN

## SAVINA 5TH ADDITION

### WICHITA, SEDGWICK COUNTY, KANSAS



DATE OF PREPARATION: 16 FEBRUARY, 2007  
 DATE OF TOPOGRAPHY: 15 SEPTEMBER, 2004  
 CONTOUR INTERVALS = 1 FOOT

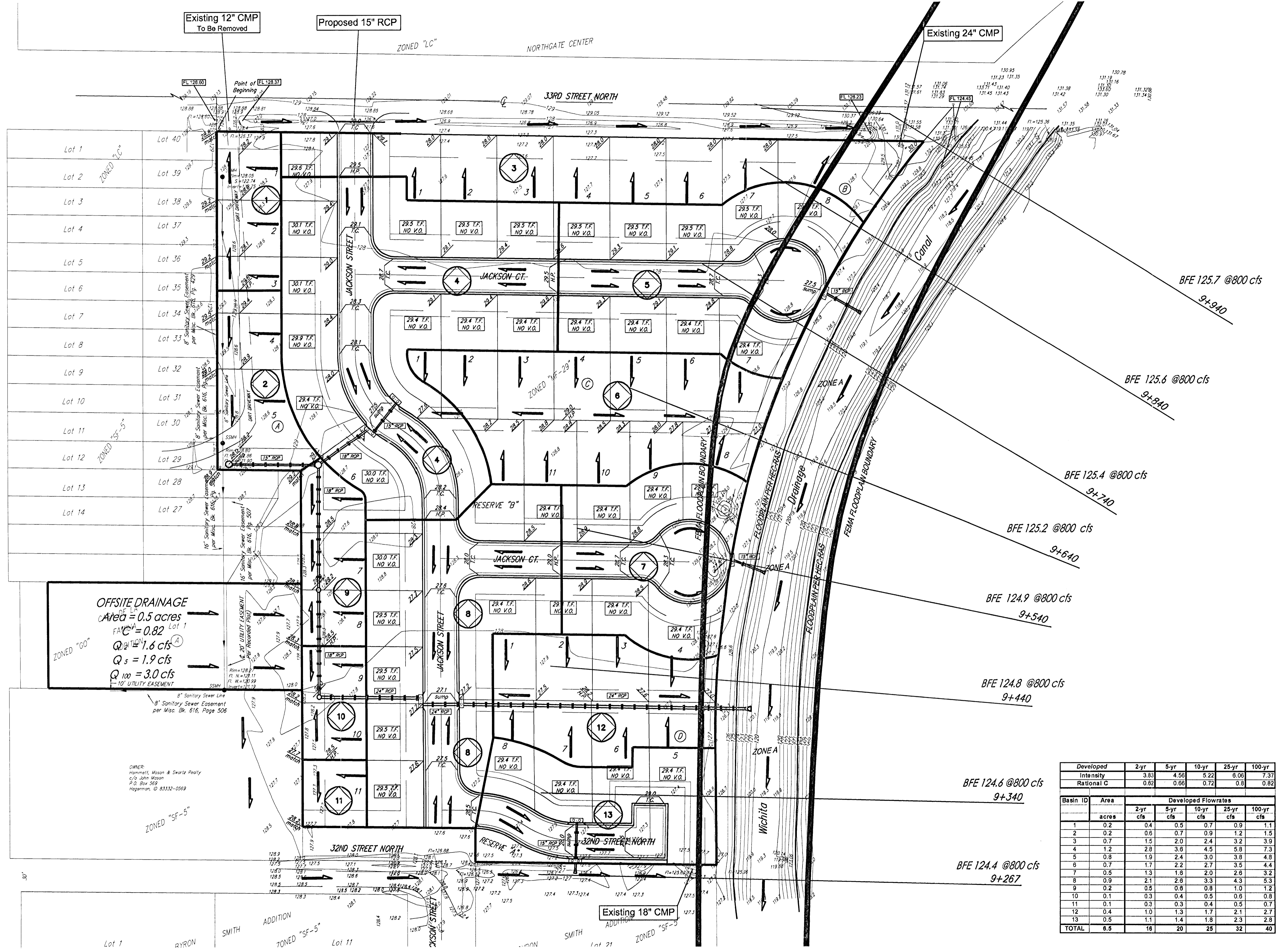
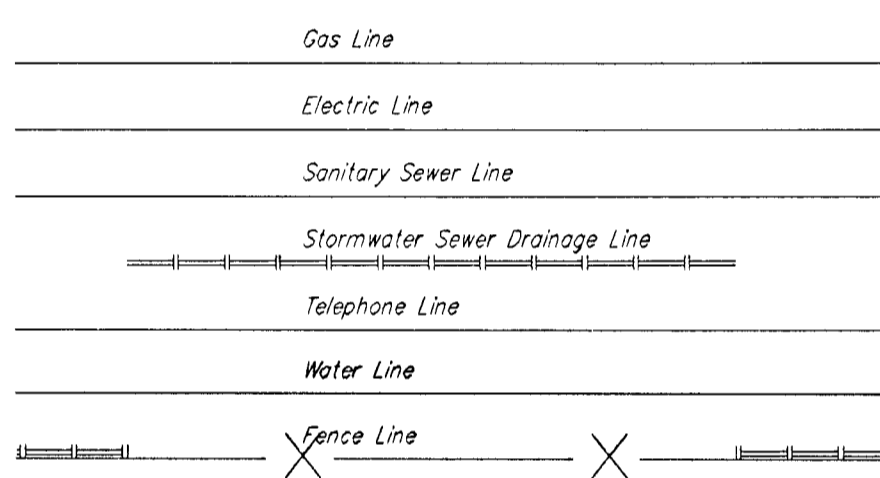
OWNER/DEVELOPER:  
 WORTH HABITAT FOR HUMANITY, INC.  
 610 N. MAIN  
 P.O. BOX 114  
 WICHITA, KS 67201  
 LYDIA STEWART  
 EXECUTIVE DIRECTOR  
 PHONE: (316) 264-1108

BENCHMARK:  
 ARKANSAS AND 33RD ST. NORTH  
 C&G BENCHMARK  
 1300 FT SOUTH OF CENTERLINE OF 33RD ST. GOING EAST  
 24.00 FT EAST OF CENTERLINE OF ARKANSAS  
 ELEV= 1317.21 (NOV 29)

C&G DISK NE BRIDGE HEADWALL 33RD AND DRAINAGE CANAL  
 ELEV= 1313.58 (CITY DATA)

RESERVE USES:  
 RESERVE "A" IS HEREBY RESERVED FOR OPEN SPACE, LANDSCAPING, DRAINAGE PURPOSES. UTILITIES AS CONTAINED TO EASEMENTS, ENTRY MONUMENTS, AND STREETS.

- FH = Fire Hydrant
- GM = Gas Meter
- GV = Gas Valve
- LP = Light Pole
- MB = Mail Box
- PP = Power Pole
- Sign = Sign
- SSMM = Sanitary Sewer Manhole
- WM = Water Meter



**OFFSITE DRAINAGE**  
 Area = 0.5 acres  
 $F.A.C. = 0.82$   
 $Q_{2} = 1.6$  cfs  
 $Q_{5} = 1.9$  cfs  
 $Q_{100} = 3.0$  cfs

Developed Intensity	2-yr	5-yr	10-yr	25-yr	100-yr
3.83	4.68	5.22	6.06	7.37	
Rational C	0.82	0.68	0.72	0.8	0.82

Basin ID	Area acres	Developed Flowrates				
		2-yr cfs	5-yr cfs	10-yr cfs	25-yr cfs	100-yr cfs
1	0.2	0.4	0.5	0.7	0.9	1.1
2	0.2	0.6	0.7	0.9	1.2	1.5
3	0.7	1.5	2.0	2.4	3.2	3.9
4	1.2	2.8	3.6	4.5	5.8	7.3
5	0.8	1.9	2.4	3.0	3.8	4.8
6	0.7	1.7	2.2	2.7	3.5	4.4
7	0.5	1.3	1.8	2.0	2.6	3.2
8	0.9	2.1	2.8	3.3	4.3	5.3
9	0.2	0.5	0.8	0.8	1.0	1.2
10	0.1	0.3	0.4	0.5	0.6	0.8
11	0.1	0.3	0.3	0.4	0.5	0.7
12	0.4	1.0	1.3	1.7	2.1	2.7
13	0.5	1.1	1.4	1.8	2.3	2.8
<b>TOTAL</b>	<b>6.5</b>	<b>18</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>

NOTE: FEMA Boundary Scaled per location per FEMA FIRM Panel 355 of 700 for Sedgwick County, Kansas, effective February 2, 2007.

Floodplain Boundary per HEC-RAS established with flow rate of 800 cfs.

All homes are proposed to be slab-on-grade construction.

### DRAINAGE & GRADING PLAN SAVINA 5TH ADDITION

21 MARCH 2007

**Baughman Company, P.A.**  
 315 Ella St. Wichita, KS 67211 P 316-262-7171 F 316-262-0149

Baughman ENGINEERING & SURVEYING PLANNING & LANDSCAPE ARCHITECTURE

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