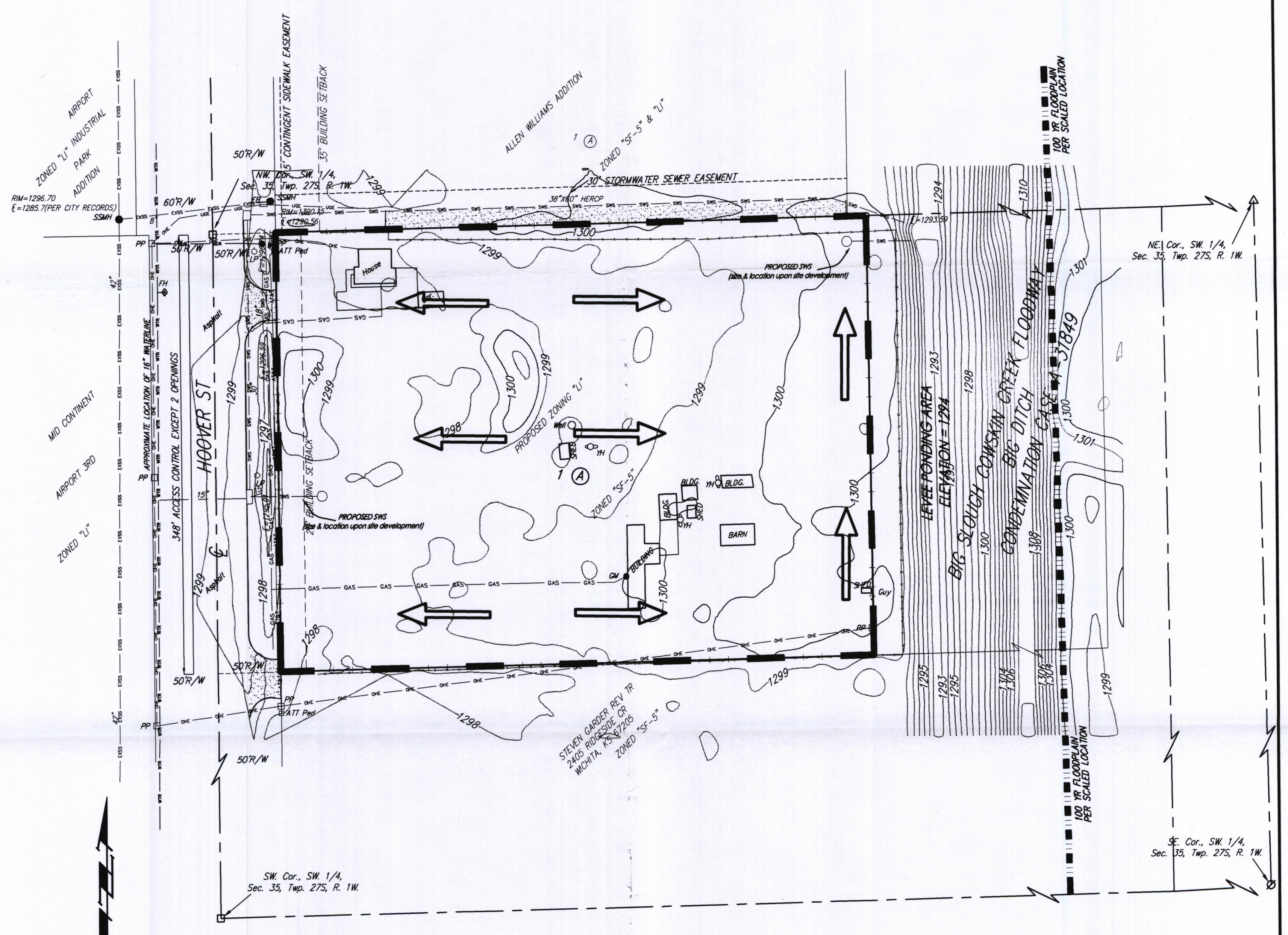
DRAINAGE PLAN

DEWITT 5TH ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS



0 60 120

DATE OF PREPARATION: 4 OCTOBER 2012
DATE OF TOPOGRAPHY: 29 AUGUST 2012
CONTOUR INTERVALS = 1 FOOT (CONTOURS PROVIDED BY SEDGWICK COUNTY)

NOTE:
FEMA FLOODPLAIN BOUNDARIES ARE SCALED PER LOCATION PER FEMA MAP 20173C0345E EFFECTIVE DATE FEBRUARY 2, 2007.

NOTE:
ALL BUILDINGS WILL BE REMOVED FROM THE SITE.

WATER LINE
ATT LINE
GAS LINE
CABLE TV
FENCE
OVERHEAD ELECTRIC LINE
SANITARY SEWER
UNDERGROUND ELECTRIC LINE

CB = Catch Basin
EB = Electric Box
FH = Fire Hydrant
GM = Gas Meter
Guy = Guy Anchor
LP = Light Pole
PP = Power Pole
SSMH = Sanitary Sewer Manhole
ATT Ped = ATT Pedestal
Well = Cased Well
WM = Water Meter
YH = Yard Hydrant(Spigot)

● = #4 Baughman Rebar Set
○ = Right of Way Monument Found
□ = 1/2" Iron Pipe in Thimble Found
△ = #4 Savoy Rebar Found
Ø = 3/4" Iron Pipe Found
◎ = 1/2" Iron Pipe in Thimble Found

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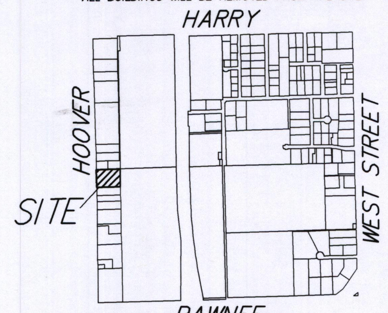

VICINITY MAP

SEC. 35, T27S, R1W

OWNER:
DeWitt Land Company, Inc.
1854 S. Florence Ct., Ste. 10
Wichita, KS 67209
Attention: Mike DeWitt
316-942-4687

BENCHMARK:
City of Wichita Disc at Hoover and May 48 feet east of 1/4 corner and 5 feet south of 1/4 section corner.
Elev. = 1298.43 (NAVD88)

Water Quality treatment will be required at site development. Depending on impervious cover on the proposed site, the amount of water quality treatment will vary. Below is a table estimating treatment areas and flow rates for different impervious area coverages. A more detailed and site specific assessment will be required at site development.

% Impervious	WQv Required (ft³)	WQ Flow Rate (cfs)
65	11,300	3.2
75	12,530	3.8
85	13,750	4.4

NOTES: This site lies within FEMA Zone X-Shaded based on scaled location per FEMA FIRM Panel 345E of 700 for Wichita, Sedgwick County, Kansas; effective February 2, 2007.

The internal Storm Water Sewer, preliminarily as shown herein, will be sized and final location approved during the site plan process. The entire site, once developed, will need to flow into/through a water quality device as approved by the City of Wichita. The amount of water quality treatment will vary based on amount of impervious cover and can be estimated using the above table.

Ponding area is located offsite. No fill or excavation in this area is permitted without permission from the City of Wichita.

TOTAL SITE FLOW ANALYSIS	
AREA = 3.77 acres Soil Type C Tc = 15 min	
EXISTING CN = 80	DEVELOPED CN = 95*
Q_2 = 7.8 cfs	Q_2 = 13 cfs
Q_5 = 12 cfs	Q_5 = 17 cfs
Q_{10} = 15 cfs	Q_{10} = 20 cfs
Q_{100} = 25 cfs	Q_{100} = 31 cfs

* CN is composite computed using 85% impervious cover of the entire site

DRAINAGE PLAN
DE WITT 5TH ADDITION
10 OCT 2012

Baughman Company, P.A.
315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

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