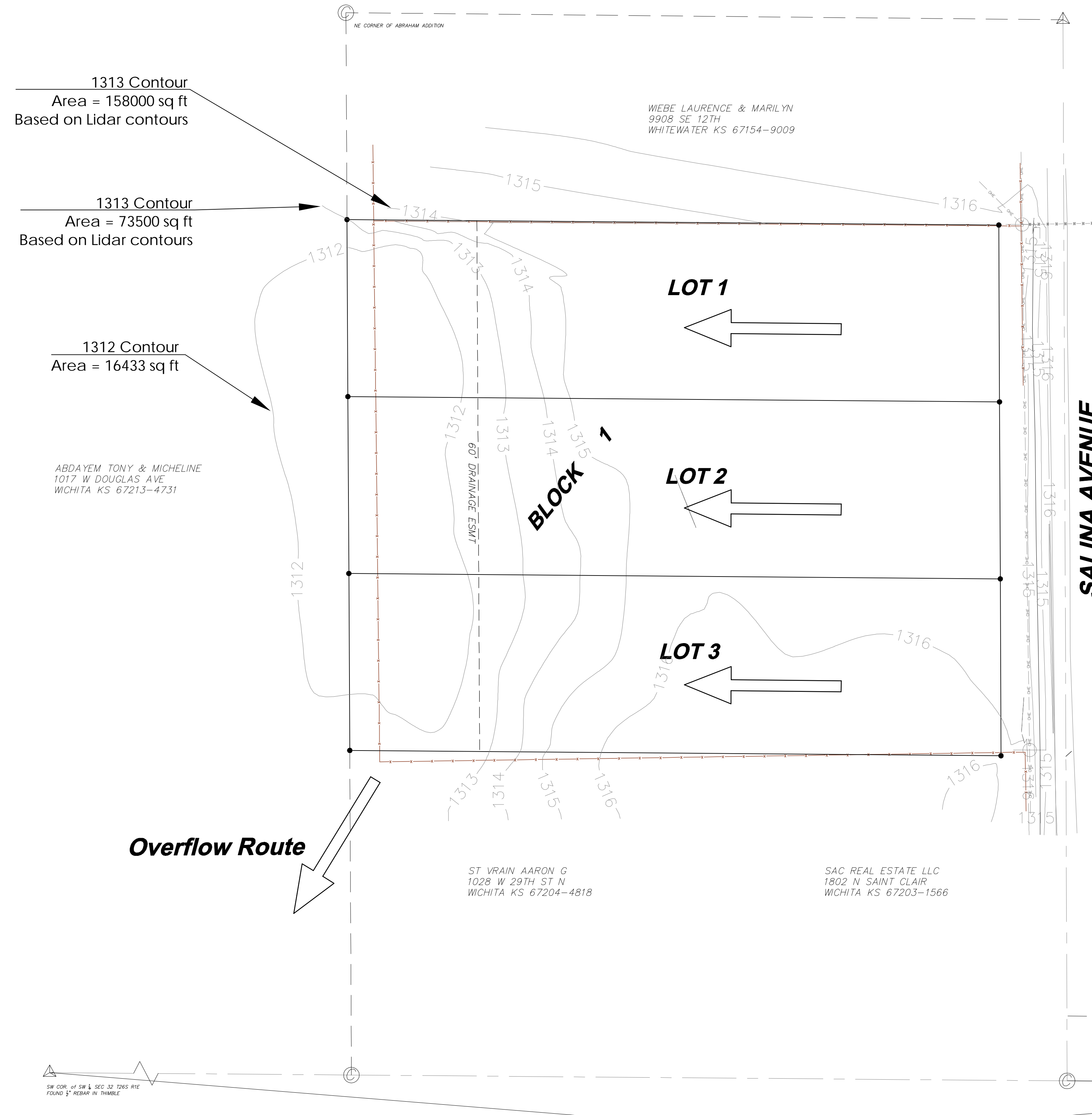


# DRAINAGE PLAN SOLIS ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



**Offsite Flow  
All Directions**  
 Area = 3.3 acres  
 CN = 71\*  
 Tc = 15 min\*\*  
 Q<sub>2</sub> = 4.2 cfs  
 Q<sub>5</sub> = 7.1 cfs  
 Q<sub>10</sub> = 9.4 cfs  
 Q<sub>25</sub> = 12 cfs  
 Q<sub>100</sub> = 18 cfs

\* Existing conditions in Soil Type B  
 \*\* Minimum. This is conservative due to the land slope and cover type.

**EXISTING =  
PROPOSED**  
 Area = 1.7 acres  
 CN = 71  
 Tc = 15 min  
 Q<sub>2</sub> = 2.7 cfs  
 Q<sub>5</sub> = 3.1 cfs  
 Q<sub>10</sub> = 4.8 cfs  
 Q<sub>25</sub> = 6.4 cfs  
 Q<sub>100</sub> = 9.5 cfs



Vicinity Map

Ponding occurs on this site at elevation 1312. At higher elevations the ponding spreads to the west and south before overtopping into 29th Street. Areas are conservative per lidar contouring. The majority of ponding volume, before overtopping, is at elevation 1313 which encompasses a majority of the west property. The contributing basin to this ponding area, when modeled, does not produce overflow to the south based on elevation.

Based on conversations with local residents, this area infiltrates rather quickly in the rear area at the west of the lots. The ponding area model assumed no infiltration.

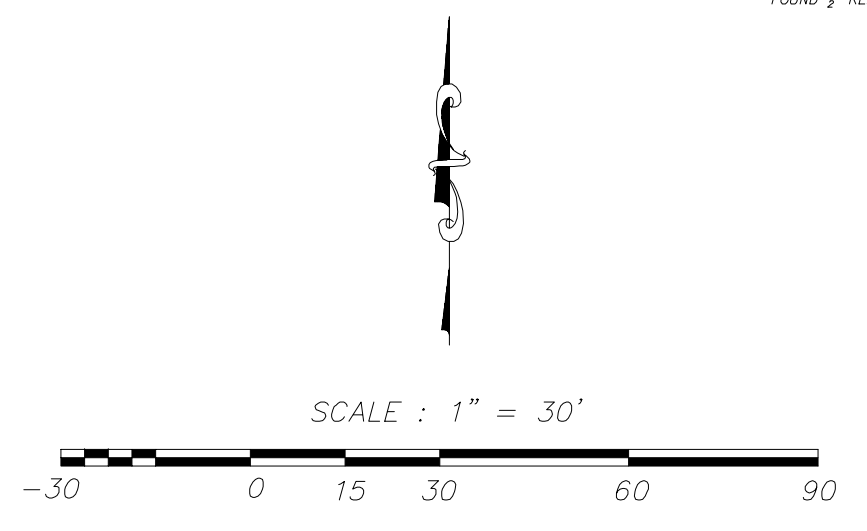
| DRY DETENTION POND/BASIN (Bottom = 1340.0) |         |         |           |
|--|---------|---------|-----------|
| STAGE                                      | INFLOW  | OUTFLOW | ELEVATION |
| 2 yr                                       | 6.4 cfs | 0 cfs   | 1312.5    |
| 10 yr                                      | 14 cfs  | 0 cfs   | 1313.0    |
| 100 yr                                     | 28 cfs  | 0 cfs   | 1313.3    |

| NORTH WEST BASIN |                       |
|------------------|-----------------------|
| ELEVATION        | TOTAL STORAGE (ac-ft) |
| 1340             | 0.0                   |
| 1341             | 0.64                  |
| 1342             | 1.37                  |
| 1343             | 2.2                   |
| 1344             | 3.1                   |

**NOTES:** This site is not expected to disturb more than 1 acre of ground surface and will not require water quality treatment. In the event that this overall development disturbs one acre or more, water quality treatment will need to be provided as part of the site development package.

Due to the site being under 5 total acres, and under 1 acre of disturbance, no detention or downstream channel protection is being provided.

This site lies within a FEMA SFHA Zone X-Shaded per FEMA FIRM Panel 355 of 700 for Wichita, Sedgwick County, Kansas; effective February 2, 2007.



|   |   |
|---|---|
| <b>JOB DESCRIPTION:</b><br>PRELIMINARY PLAT   |   |
| <b>PREPARED FOR:</b><br>Jose Solis<br>2918 N. Wellington Place<br>Wichita, KS 67204 |   |
| <b>JOB LOCATION:</b><br>29th St. North & Salina Ave.                                | <b>DATE OF PREPARATION:</b><br>08-11-2014 |
| <b>JOB NUMBER:</b><br>A13192  | <b>SHEET 1 OF 1</b>                       |
| <b>DRAWN BY:</b> AMF  | <b>CHECKED BY:</b> CRJ                    |

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 Ph. 316.262.2262 Fax 316.262.2268  
 surveyors@benchmarks.net

**DRAINAGE PLAN  
SOLIS ADDITION**  
17 DEC 2014

**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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