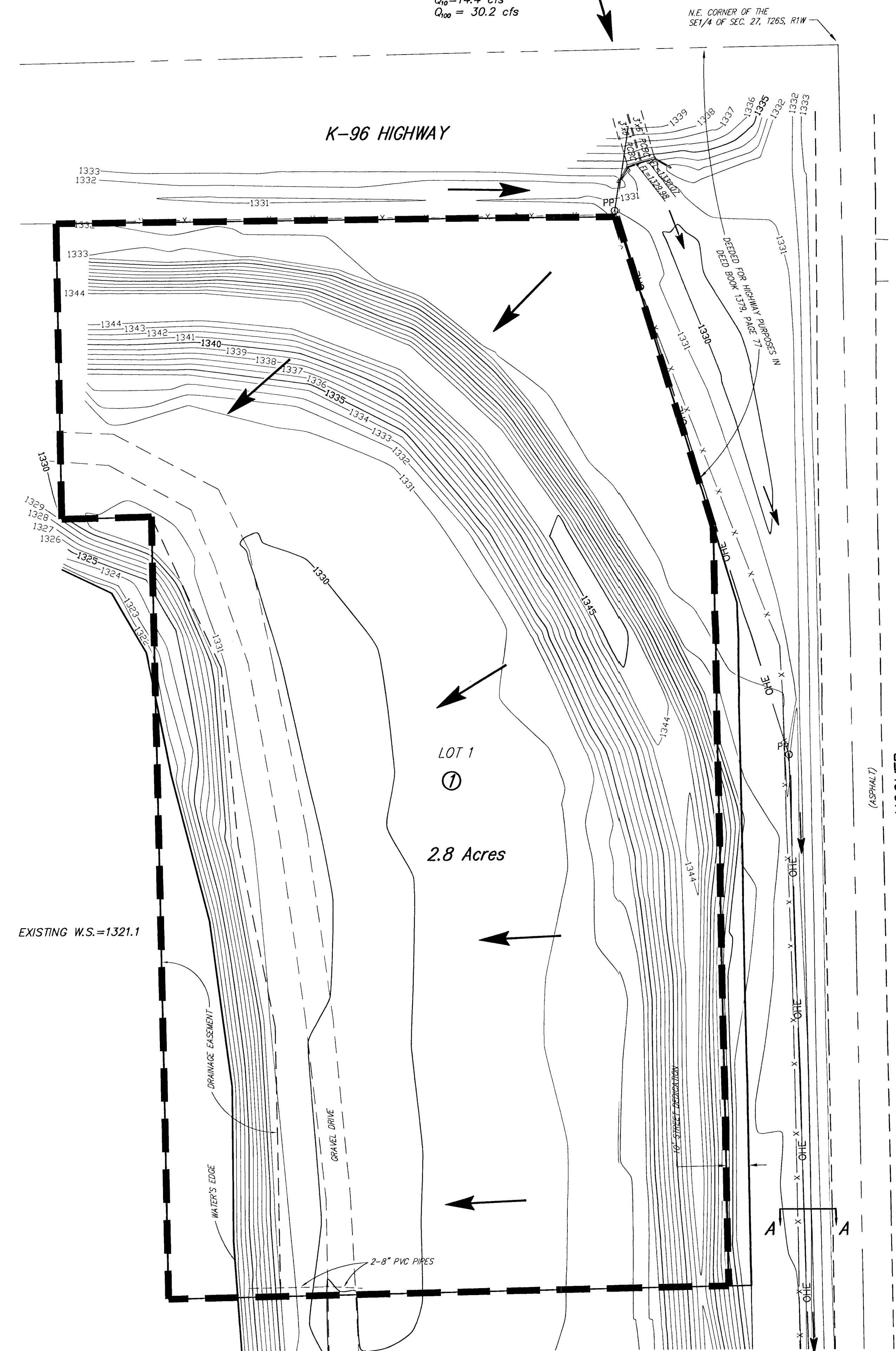


Drainage Plan

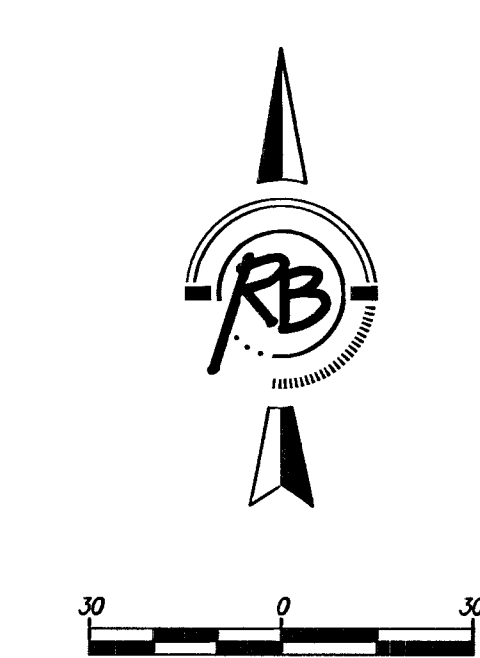
HOOVER COMMERCIAL

an Addition to Sedgwick County, Kansas

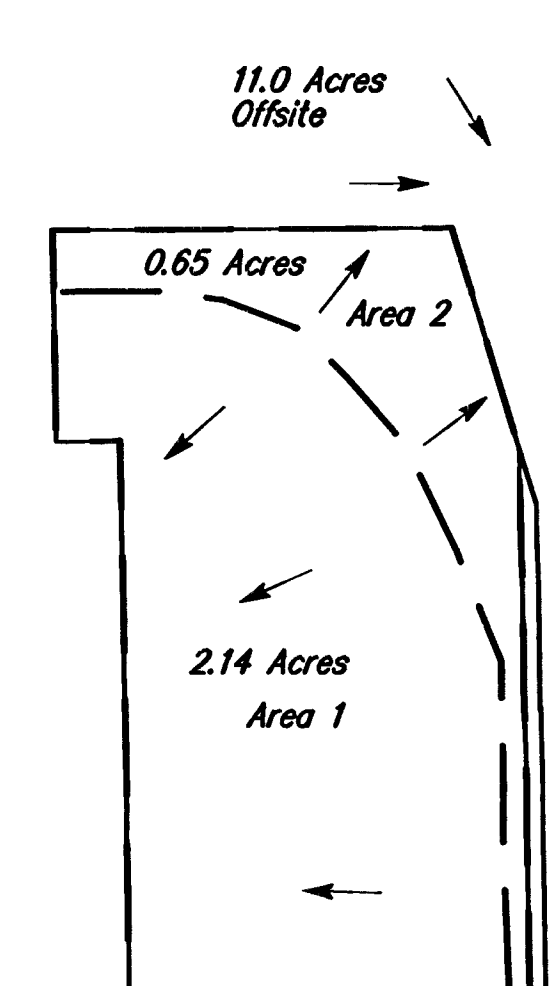
Offsite Area
 Area=11.0 ac.
 Tc=48 min.
 C₁₀₀=0.45
 C₁₀=0.65
 I₁₀₀=2.90 in/hr
 I₁₀=4.23 in/hr
 Q₁₀₀=14.4 cfs
 Q₁₀=30.2 cfs



N.E. CORNER OF THE
 SE 1/4 OF SEC. 27, T26S, R1W

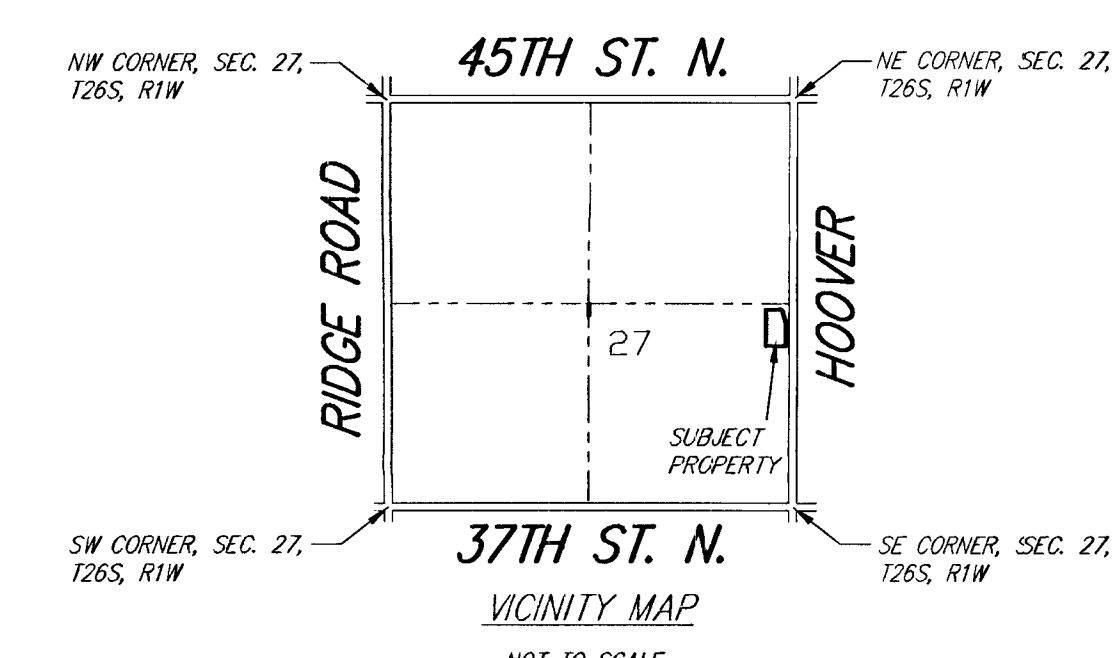


Driveway Culverts
 Lot 1 18" CMP



EXISTING DRAINAGE PATTERNS
 n.12

Section A-A
 Ditch Capacity=47.3 cfs
 Max Depth=2.02'
 S=0.36%
 V=2.67%



- Notes**
1. Site vegetative cover is short grass pasture. Soil is hydrologic group D.
 2. Project is located in unshaded Zone X, defined as areas outside the 0.2% annual chance floodplain.
 3. C factors, Intensities and overland flow rates are taken from the City of Wichita drainage criteria.
 4. The site drains directly into a large (59 ac.) groundwater pond. The pond does not have an outlet and runoff is retained and eventually infiltrates into the groundwater. Because of the nature of the pond and the small size of the site relative to the pond, detention will not be provided for this site.
 5. The double 6"x3" RCB located at the northeast corner of the subject property flows from the north side of K-96 to the south side. The tributary area of the RCB is almost entirely cut off by a newly constructed berm and pond on the north side of K-96. A portion of the north K-96 right-of-way does drain through the RCB to a low point at the northeast corner of the subject property. Area 2 of the existing condition also drains to this point. There drainage at the low point ponds to a depth of approximately 1.2' before flowing south in the west road ditch of Hoover Road.

BENCH MARK: CITY OF WICHITA DISK ON THE NORTH
 RIGHT-OF-WAY OF K-96 HIGHWAY AND WEST RIGHT-
 OF-WAY OF HOOVER, 42.50' WEST OF THE CENTERLINE
 OF HOOVER AND 6.9' EAST SOUTHEAST OF POWER POLE
 ELEVATION = 1333.14 (NGVD29)

Existing Conditions

Area 1
 Assumed Tc=15 min.

Area 2
 Assumed Tc=15 min.

Proposed Conditions

Area 1
 Assumed Tc=15 min.

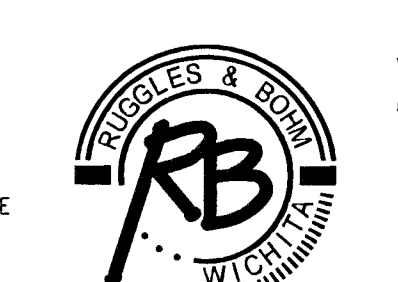
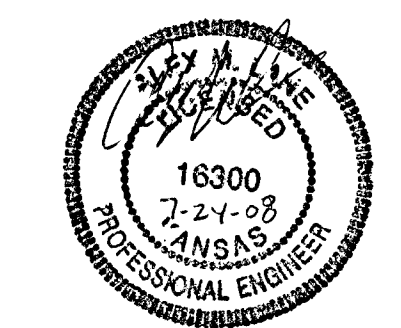
Existing Conditions

| | Ac. | C ₁₀ | C ₁₀₀ | I ₁₀ | I ₁₀₀ | Q ₁₀ | Q ₁₀₀ |
|--------|------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| Area 1 | 2.14 | 0.45 | 0.65 | 5.22 | 7.37 | 5.0 | 10.3 |
| Area 2 | 0.65 | 0.45 | 0.65 | 5.22 | 7.37 | 1.5 | 3.7 |

Proposed Conditions

| | Ac. | C ₁₀ | C ₁₀₀ | I ₁₀ | I ₁₀₀ | Q ₁₀ | Q ₁₀₀ |
|--------|------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| Area 1 | 2.80 | 0.75 | 0.82 | 5.22 | 7.37 | 11.0 | 16.9 |

| MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING INTO STRUCTURES | | |
|-------------------------------------------------------------------------|---------|-------------------------|
| BLOCK | LOT NO. | ELEVATION (N.G.V.D.) |
| 1 | 1 | 1335.5 |



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DWG FILE: SURVEY BASE
 PROJECT NO. 3181P
 DECEMBER 18, 2007