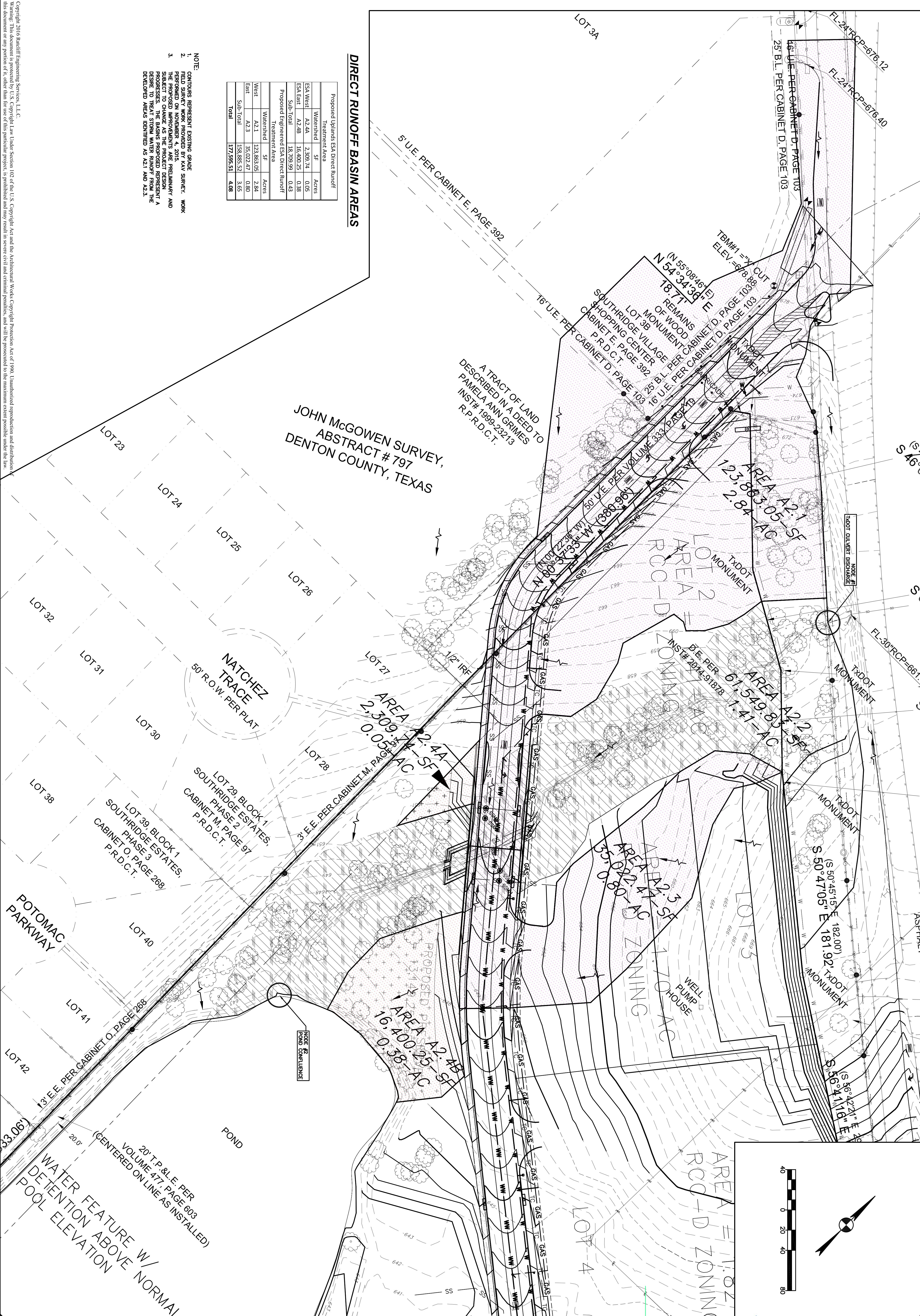


- NOTE:
1. CONTOURS REPRESENT EXISTING GRADE
  2. FIELD SURVEY WORK PROVIDED BY KAY SURVEY. WORK PERFORMED ON NOVEMBER 4, 2015.
  3. THE PROPOSED IMPROVEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE AS THE PROJECT DESIGN AND CONSTRUCTION PROGRESS. THE DESIGN REPRESENT A DESIRE TO TREAT STORM WATER RUNOFF FROM THE DEVELOPED AREAS IDENTIFIED AS A2.1 AND A2.3.

| Proposed Uplands ESA Direct Runoff    |       |            |       |
|---------------------------------------|-------|------------|-------|
| Treatment Area                        |       | SF         | Acres |
| ESA West                              | A2.4A | 2,309.74   | 0.05  |
| ESA East                              | A2.4B | 16,400.25  | 0.38  |
| Sub-Total                             |       | 18,709.99  | 0.43  |
| Proposed Engineered ESA Direct Runoff |       |            |       |
| Treatment Area                        |       | SF         | Acres |
| West                                  | A2.1  | 123,853.05 | 2.84  |
| East                                  | A2.3  | 35,024.47  | 0.80  |
| Sub-Total                             |       | 158,877.52 | 3.65  |
| Total                                 |       | 177,587.51 | 4.08  |

DIRECT RUNOFF BASIN AREAS



**PROPOSED ESA DIRECT RUNOFF TREATMENT AREA**  
BUC-EE'S # 39 - SUBDIVISION  
INTERSTATE HIGHWAY 35E, DENTON COUNTY  
BUC-EE'S, LTD.

**SHEET INFORMATION**

|                                          |                       |
|------------------------------------------|-----------------------|
| DATE: 02-19-2016                         | PROJECT NO: 100530-09 |
| DESIGNED BY: DSR                         | DRAWN BY: DSR         |
| FILE NAME: BUC-EE'S #39                  | APPROVED BY: HC       |
| ISSUED FOR OWNER REVIEW:                 | PLOT SCALE: 1:40      |
| ISSUED FOR PERMIT REVIEW & BIDDING ONLY: |                       |
| ISSUED FOR CONSTRUCTION:                 |                       |

RATCLIFF ENGINEERING SERVICES, L.L.C.  
P.O. BOX 16261  
GALVESTON, TEXAS 77552  
OFFICE (512) 805-7997  
TBPE FIRM #14624

| REVISIONS |          |       |      |
|-----------|----------|-------|------|
| NO.       | REVISION | APPD. | DATE |
|           |          |       |      |
|           |          |       |      |
|           |          |       |      |
|           |          |       |      |