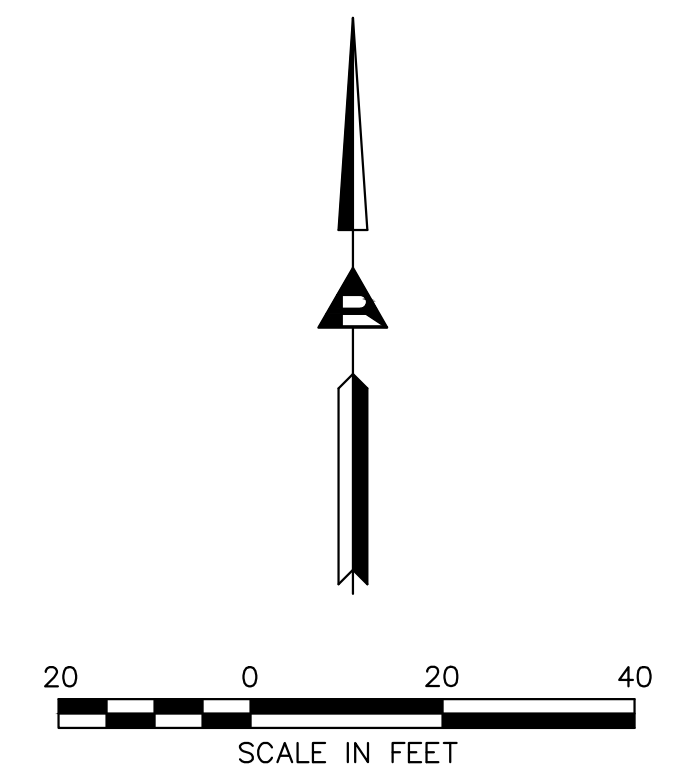


**ATTENTION !!!**  
 CONTRACTOR TO FIELD VERIFY LOC. AND ELEV. OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL: 1-800-DIG-TESS 48 HRS. PRIOR TO CONSTRUCTION.

**ATENCIÓN!**  
 CONTRATISTA DE CAMPO DE CONTROL DE LOCALIZACIÓN Y ELEVACIÓN DE TODOS LOS SERVICIOS EXISTENTES ANTES DE CONSTRUCCIÓN. CALL: 1-800-DIG-TESS 48 HORAS ANTES DE LA CONSTRUCCIÓN.

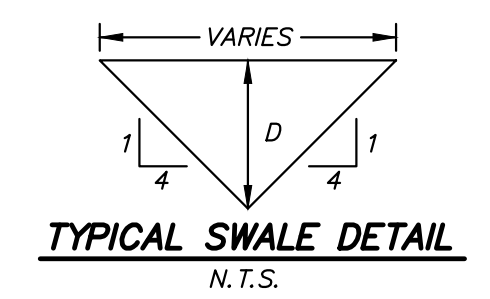


**LEGEND**

- DRAINAGE AREA DIVIDE
- FLOW ARROWS
- DRAINAGE AREA NUMBER  
ACRES  
 $Q_{100}$
- EXISTING CONTOURS
- PROPOSED CONTOURS
- FL SWALE
- PRIVATE DRAINAGE EASEMENT

**DRAINAGE AREA RUNOFF CALCULATIONS**

DRAINAGE AREA NO.	AREA (ac)	C (coeff.)	$C_f$	C (adj)	$t_c$ (min)	$I_{100}$ (in/hr)	$Q_{100}$ (cfs)	COMMENTS
A	0.49	0.45	1.25	0.56	15	7.91	2.17	TO MEADOWLARK ROAD
B1	0.34	0.45	1.25	0.56	15	7.91	1.51	TO MEADOWLARK RD. VIA PROP. SWALE
B2	0.17	0.45	1.25	0.56	15	7.91	0.75	TO MEADOWLARK RD. VIA PROP. SWALE
C	0.66	0.45	1.25	0.56	15	7.91	2.92	TO MEADOWLARK ROAD
D1	0.23	0.45	1.25	0.56	15	7.91	1.02	TO MEADOWLARK RD. VIA PROP. SWALE
D2	0.21	0.45	1.25	0.56	15	7.91	0.93	TO MEADOWLARK RD. VIA PROP. SWALE



**AREA B1 CALCS**  
 $Q_{100} = 1.51$  cfs  
 $S = 1.00\%$   
 $n = 0.03$   
 $D_{100} = 0.41'$

**AREA D1 + D2 CALCS**  
 $Q_{100} = 1.95$  cfs  
 $S = 1.99\%$   
 $n = 0.03$   
 $D_{100} = 0.45'$

**Ridinger Associates, Inc.**  
 Civil Engineers - Planners  
 540 S. 1989th Lane, Suite 101  
 Lewisville, Texas 75067  
 Tel. No. (972) 353-8001  
 Fax No. (972) 353-8011

**PRELIMINARY**  
 FOR REVIEW ONLY  
 Not for construction, bidding, or permit purposes.  
 Ridinger Associates, Inc.  
 Civil Engineers & Planners  
 Engineer: JASON R. KILPATRICK  
 P.E. No. 130269 Date 06/14/19

**145 CHAPARRAL ESTATES**  
 SHADY SHORES, TEXAS

**GRADING & DRAINAGE PLAN**

Scale: 1" = 20'  
 Designed by: LDR  
 Drawn by: MAB  
 Checked by: JRK  
 Date: JUNE 14, 2019  
 Project No. 000-003

SHEET  
**C-01**