

**CAUTION EXISTING UTILITIES !!!**  
 CALL TEXAS 811!!! EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

**LEGEND**

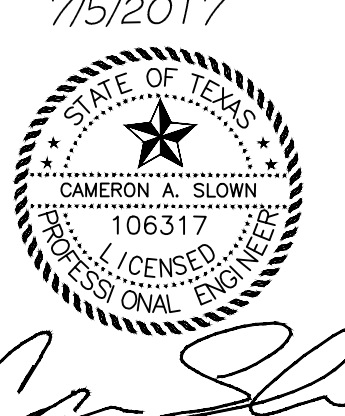
- — — — — PROPERTY LINE
- - - - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- (x) DRAINAGE AREA NUMBER
- (xx.xx) PROPOSED DRAINAGE AREA (Ac.)
- (xx.xx) PROPOSED DRAINAGE AREA RUNOFF (CFS)
- PROPOSED DRAINAGE AREA LINE
- PHASE I CONSTRUCTION LIMITS

INSTALL 6"-10" GROUTED ROCK RIP RAP FROM FLUME OPENING TO 3' BEYOND CULVERT OPENING

INTERSTATE HIGHWAY NO. 30  
 (VARIABLE WIDTH R.O.W.)

NOTE: OFFSITE DRAINAGE AREAS SHOWN ON THIS PLAN ARE BASED ON VALUES DETERMINED IN THE SHORELINE TRAIL EXTENSION PLANS.

DRAINAGE AREA CALCULATIONS						
Drainage Area No.	Total Area (Acres)	Runoff Coefficient C	Time of Concentration Tc (Min.)	Rainfall Intensity I100 (in/hr)	Existing Flow Q100 (cfs)	Remarks
OS-1	0.40	0.90	10	9.80	3.53	FLOWS TO CURB INLET #1
OS-2	0.31	0.90	10	9.80	2.73	FLOWS TO EX CURB INLET #1
OS-3	0.11	0.90	10	9.80	0.97	FLOWS TO EX CURB INLET #2
OS-4	0.85	0.90	10	9.80	7.50	FLOWS TO EX CURB INLET #3
OS-5	0.36	0.90	10	9.80	3.18	FLOWS TO TXDOT R.O.W.
OS-6	0.29	0.90	10	9.80	2.56	FLOWS TO TXDOT R.O.W.
1	0.47	0.90	10	9.80	4.15	FLOWS TO CURB INLET #3
2	0.56	0.90	10	9.80	4.94	FLOWS TO EX CURB INLET #4
3	0.39	0.90	10	9.80	3.44	FLOWS UNDERGROUND TO INLET #2
4	0.91	0.90	10	9.80	8.03	FLOWS TO CURB INLET #2
5	0.71	0.90	10	9.80	6.26	FLOWS TO TXDOT R.O.W.
<b>TOTAL</b>	<b>5.36</b>				<b>47.28</b>	

Revision Date Description				
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~ Civil Engineer ~ <b>F.C. CUNY CORPORATION</b> #2 Horizon Court • Heath, Texas 75032 • (469) 402-7700 Texas Registered Engineering Firm F-7449				
7/5/2017				
				
Drawn By: F.C. CUNY		Checked By: [Signature]		
Date: 05/15		Project No: -		
Sheet Title: <b>Drainage Area Map</b>				
Scale: 1" = 30'		Sheet No: 8 of 11		