



**LEGEND:**

- DRAINAGE AREA IDENTIFIER
- DRAINAGE AREA DIRECTION OF FLOW
- DRAINAGE AREA SIZE (Acres)
- Q100 (cfs)
- DRAINAGE AREA MARKER
- DRAINAGE AREA BOUNDARY
- DRAINAGE AREA FLOW ARROW

**DRAINAGE AREA CALCULATIONS**

Drainage Area	Area (ac)	Runoff Coefficient (C)	Time of Concentration (min)	Rainfall Intensity 110 (in/hr)	Rainfall Intensity 1100 (in/hr)	Peak Discharge Q10 (cfs)	Peak Discharge Q100 (cfs)	Outfall Structure
<b>Existing Condition</b>								
A-1	1.022	0.25	10.0	6.54	9.27	1.7	2.4	Addison Road
A-2	0.322	0.25	10.0	6.54	9.27	0.5	0.7	Area Inlet No. 1
A-3	0.118	0.25	10.0	6.54	9.27	0.2	0.3	Westgrove Road
Overall Sub-Basin	6.540	0.75	10.0	6.54	9.27	32.1	45.5	(see notes below)
<b>Post-Development Condition</b>								
A-1	1.022	0.9	10.0	6.54	9.27	6.0	8.5	Addison Road
A-2	0.322	0.9	10.0	6.54	9.27	1.9	2.7	Area Inlet No. 1
A-3	0.118	0.9	10.0	6.54	9.27	0.7	1.0	Westgrove Road
Overall Sub-Basin	6.218	0.9	10.0	5.59	7.99	31.3	44.7	(see notes below)
<b>Comparison of Existing vs. Post-Development</b>								
A-1						4.3	6.2	Addison Road
A-2						1.4	1.9	Area Inlet No. 1
A-3						0.5	0.7	Westgrove Road
Overall Sub-Basin						-0.8	-0.8	(see notes below)

**NOTES:**  
 1) Overall Sub-Basin originally drained to the 42" storm pipe located within the R.O.W. of Addison Road  
 2) Proposed grading splits A-2 from Overall Sub-Basin  
 3) Curb inlet at 4+75 Westgrove intercepts a negligible amount of runoff. Remainder drains to Addison Road.

**Analysis of Existing Storm Lines**

Station	Slope Pipe (%)	Diameter Pipe (in)	Capacity Pipe (cfs)	Existing Flow (cfs)	Proposed Flow (cfs)	Notes
Westgrove	4+75	0.5	27	21.9	Negligible (see Note 3)	10" Curb Inlet Intersection with Addison Road at 0+00
Addison Road	72+80	0.5	48	101.8		8" Curb Inlet, 24" RCP Lateral and 42" RCP Storm Pipe

**AS-BUILT**  
10/25/2018

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY VICTOR LISSIAK, JR., P.E. 30565 ON 10/25/2018



**BENCHMARK:**  
 1. SQUARE CUT ON THE CURB INLET AT THE NORTHEAST CORNER OF THE INTERSECTION OF SUNBELT DRIVE AND WESTGROVE DRIVE. ELEVATION=628.54  
 2. LIGHT POLE CONCRETE BASE IN THE EXCEL PARKWAY MEDIAN WEST OF ADDISON ROAD. ELEVATION=644.41

**OFFSITE DRAINAGE AREA MAP**  
**MEHRDAD HANGAR**  
**ADDISON AIRPORT**  
 LEASEHOLD ESTATES TRACT II  
 1458 ACRES GROUND LEASE #080A-29 ALP#U23  
 4700 WESTGROVE DRIVE  
**ADDISON, TEXAS**

**VIEWTECH INC.** TEXAS FIRM REGISTRATION NO. F2658  
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DESIGN	DRAWN	DATE	SCALE	JOB #	SHEET
AW	AW	10/24/16	1"=50'	2015-224	C3