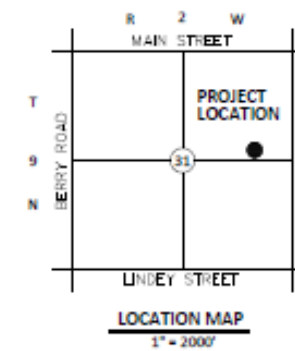
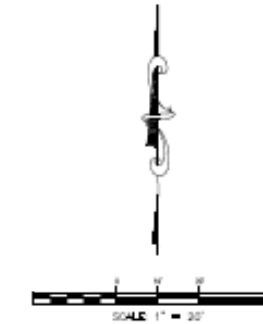


- LEGEND
- EXISTING CONTOUR
 - PROPOSED DRAINAGE BASIN BOUNDARY
 - DA-# DRAINAGE BASIN NUMBER
 - *** AC. DRAINAGE BASIN ACREAGE
 - FLOW PATH
 - PROPERTY LINE

EXISTING 12" STORM
SEWER SYSTEM

EXISTING DRAINAGE MAP

A PART OF THE N.E. 1/4 OF SECTION 31, T9N, R2W I.M.
NORMAN, CLEVELAND COUNTY, OKLAHOMA



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DRAINAGE SUMMARY TABLE FOR EXISTING HYDROGRAPHS:

Area I-5:	SA1	SA2
Pipe segment	residential	residential
Time (minutes), forward		
Overland flow (city of Norman, Method)	3.83, 0007	
R-factor	0.511	0.511
Length (ft)	315	96
Slope (ft/ft)	0.0103	0.0355
$100(KC)^{0.47}/(S)^{0.74}$, 0007, R08 fact	2.13	5.29
Surface Retardance Factor "K"		
Length (ft)		
Slope (ft/ft)		
$100(KC)^{0.47}/(S)^{0.74}$		
Time, pipe, minutes		
Time, total, minutes	7.38	5.29
Drainage Area, pervious-grass, runoff coefficient, c=0.38		
Drainage Area, pervious-grass, runoff coefficient, c=0.45		
Drainage Area, impervious, runoff coefficient, c=0.85		
Weighted "c", runoff coefficient (17.46 Grass, 26.74 Grass, 55.74 Impervious)	0.75	0.75
Area (acres), Total	0.2708	0.2916
Intensity, III, 12 year, (in/hr)	5.55	5.55
Flow Q (cfs)	0.82	1.23
Intensity, III, 15 year, (in/hr)	6.38	6.38
Flow Q (cfs)	1.05	1.39
Intensity, III, 100 year, (in/hr)	7.38	7.38
Flow Q (cfs)	1.65	1.65
Intensity, III, 125 year, (in/hr)	8.32	8.32
Flow Q (cfs)	1.89	1.89
Intensity, III, 150 year, (in/hr)	9.45	9.45
Flow Q (cfs)	2.15	2.15
Intensity, III, 1000 year, (in/hr)	18.51	18.51
Flow Q (cfs)	3.75	3.92

REFER DRAINAGE REPORT, APPENDIX A-EXISTING FLOOD HYDROGRAPHS,
FOR DETAILED INFORMATION ON RUNOFF CALCULATIONS.

715-723 ASP AVENUE
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PROJECT NO. 2158.00
DATE: 11/05/2017
DRAWN BY: JH
CHECKED BY: JH
DATE: 11/05/2017
EXISTING DRAINAGE MAP
SHEET NO. 2