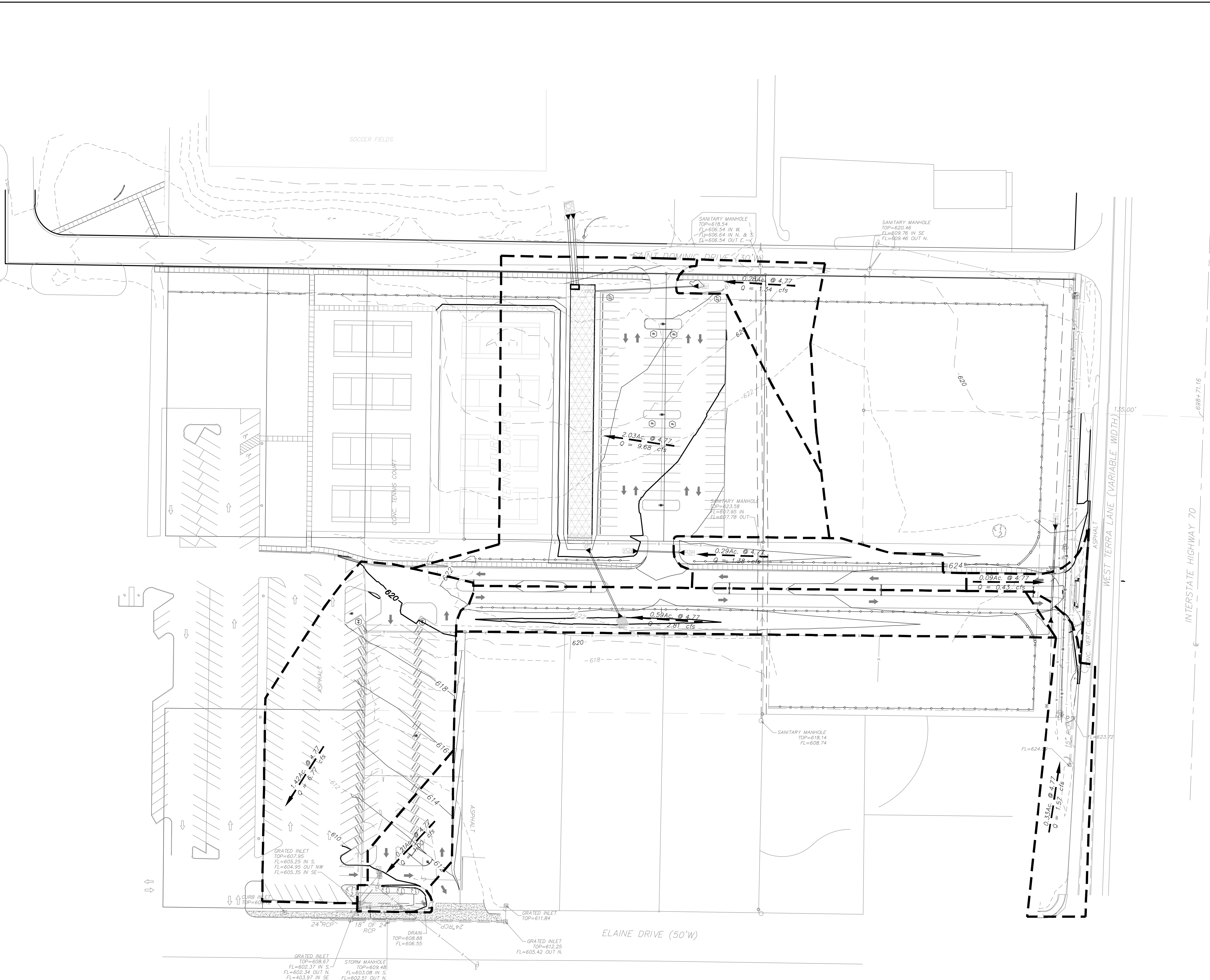
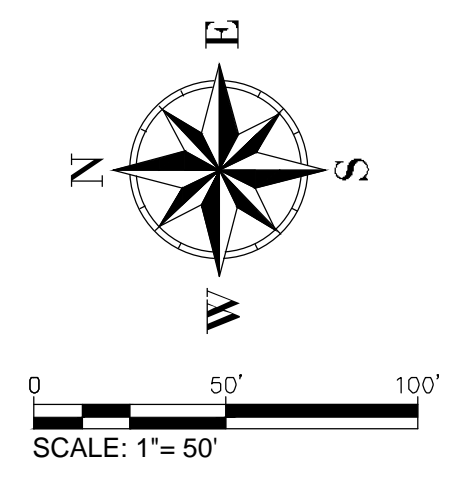


P:\19002\_SCHS\_00\DWG\OUTPUT\IMPROVEMENT PLANS\08 - DRAIN.DWG



**DIFFERENTIAL RUNOFF CALCULATIONS**

<b>PRE DEVELOPED</b>			
BUILDINGS:	0.22 Ac	@ 4.77	= 1.05 CFS
PAVEMENT:	1.63 Ac	@ 4.77	= 7.78 CFS
GRASS:	2.08 Ac	@ 2.29	= 4.76 CFS
<b>TOTAL PRE-DEVELOPED RUNOFF = 13.59 CFS</b>			
<b>POST DEVELOPED</b>			
BUILDINGS:	0.00 Ac	@ 4.77	= 0.00 CFS
PAVEMENT:	3.93 Ac	@ 4.77	= 18.75 CFS
<b>TOTAL POST-DEVELOPED RUNOFF = 18.75 CFS</b>			
<b>DIFFERENTIAL RUNOFF:</b>			
18.75 CFS - 13.59 CFS = 5.16 CFS			



**ST DOMINIC HIGH SCHOOL**  
 SEVERAL TRACTS OF LAND BEING U.S. SURVEY 55,  
 TOWNSHIP 47 NORTH RANGE 3 EAST,  
 CITY OF FALLON,  
 ST. CHARLES COUNTY, MISSOURI  
**IMPROVEMENT PLANS**  
 PRS PROJECT NO: 19002.SCHS.008

**St. Peters**  
 22 Richmond Center Court  
 St. Peters, MO 63376  
 Phone (636) 397-1211  
 Fax (636) 397-1104  
 www.prs3.com



**ENGINEERS AUTHORIZATION**  
 The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthorized.  
**PICKETT, RAY & SILVER, INC.**



WILLIAM SCHEDT, P.E.  
 PE-2018007869

**Drainage Area Map**

**Owner Information:**  
 Archdiocese of St. Louis  
 20 Archbishop May Dr  
 St. Louis, MO 63119

**City of O'Fallon Improvement Plans**

P+Z No: SP19-000018  
 Approval Date: 6/6/2019  
 City No.: 19-005347

Page No.  
**DRAINAGE AREA MAP**  
**8 of 11**

\*\*\* 08/13/19 IMPROVEMENT PLANS SUBMITTAL \*\*\*