PART 1 - GENERAL

1.01 Install exterior cleanout on rain water leader within 5-feet of the building.

1.02 Design to the most current EPA/ADEC APDES Permit criteria. UAF Facilities Services and shall obtain necessary construction permits from ADEC prior to and post construction.

1.03 Provide manholes at a maximum of 200 feet apart.

1.04 All storm drainage outlets must drain to an area that will not flow over vehicle or pedestrian access. Outlet must also have a bar grate to prevent access by pedestrians.

1.06 For connections of a roof drain system to a storm drain system, provide heat trace (electronic up to 35 feet, hydronic beyond 35 feet) on buried leaders out to the first manhole. Refer to Division 23 and 26 for control of heat trace.

1.07 Bury piping a minimum of four feet below grade. Insulate only the heat traced portion of the direct buried storm drain systems with minimum 3 inch thick layer of spray-on urethane foam insulation, 2-1/2 lb./cu. ft. density

PART 2 - PRODUCTS

2.01 Minimum 18 inches in diameter culvert for underground drainage. 12 inches may be used in certain situations approved by the UAF FS/DDC Project Manager

2.02 Acceptable pipe materials:

A. Spiral corrugated galvanized/aluminized steel pipe with annular end corrugations and gasketed joints.

B. Corrugated HDPE pipe with smooth bore liner. Gasketed joints.

C. Ductile iron pipe with cement mortar lining. Bell and spigot joints.

2.03 Manholes: Precast concrete construction rings and risers with evenly spaced ladder rungs. Provide insulation on outside of manholes only as required by FS/DDC. Allow min. 12inch of free space between bottom of manhole and invert of inlet/outlet Pipe knockouts are to be precast with approved grout ring and boot. Field knock-outs are only allowed upon approval of FS/DDC and shall be fully grouted.

2.04 Covers and Inlets: Cast Iron covers and lids rated for H20 loading. UAF prefers square box inlets with inlet grates in the curb. Round manhole inlets and preferred for road and parking lot applications. Manhole covers shall be stamped “STORM”.

PART 3 - EXECUTION

3.01 Wrap assembled joints on corrugated pipe with double wrap of filter fabric.