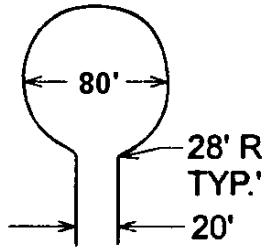
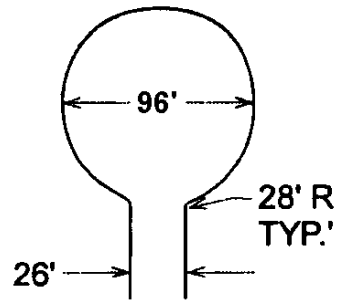


APPENDIX A

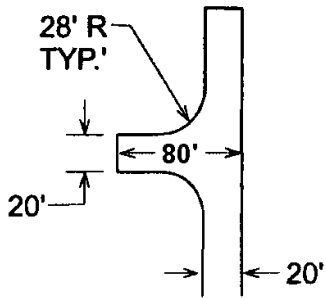
ALTERNATE DEAD-END CONFIGURATIONS



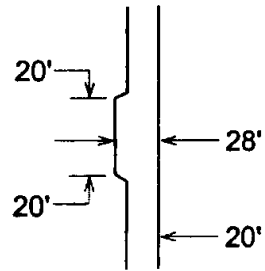
80' DIAMETER
CUL-DE-SAC



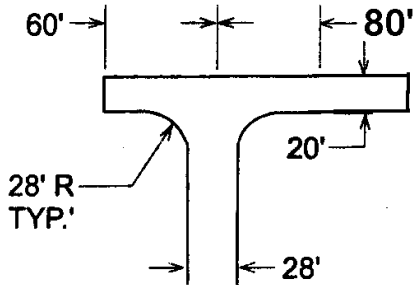
96' DIAMETER
CUL-DE-SAC



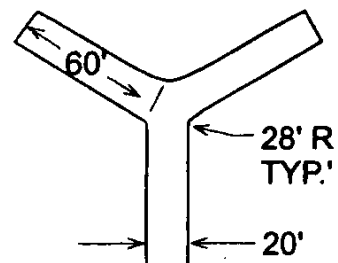
ACCEPTABLE ALTERNATIVE
TO 120' HAMMERHEAD



MINIMUM CLEARANCE
AROUND A FIRE
HYDRANT



120' HAMMERHEAD



ACCEPTABLE ALTERNATIVE
TO 120' HAMMERHEAD