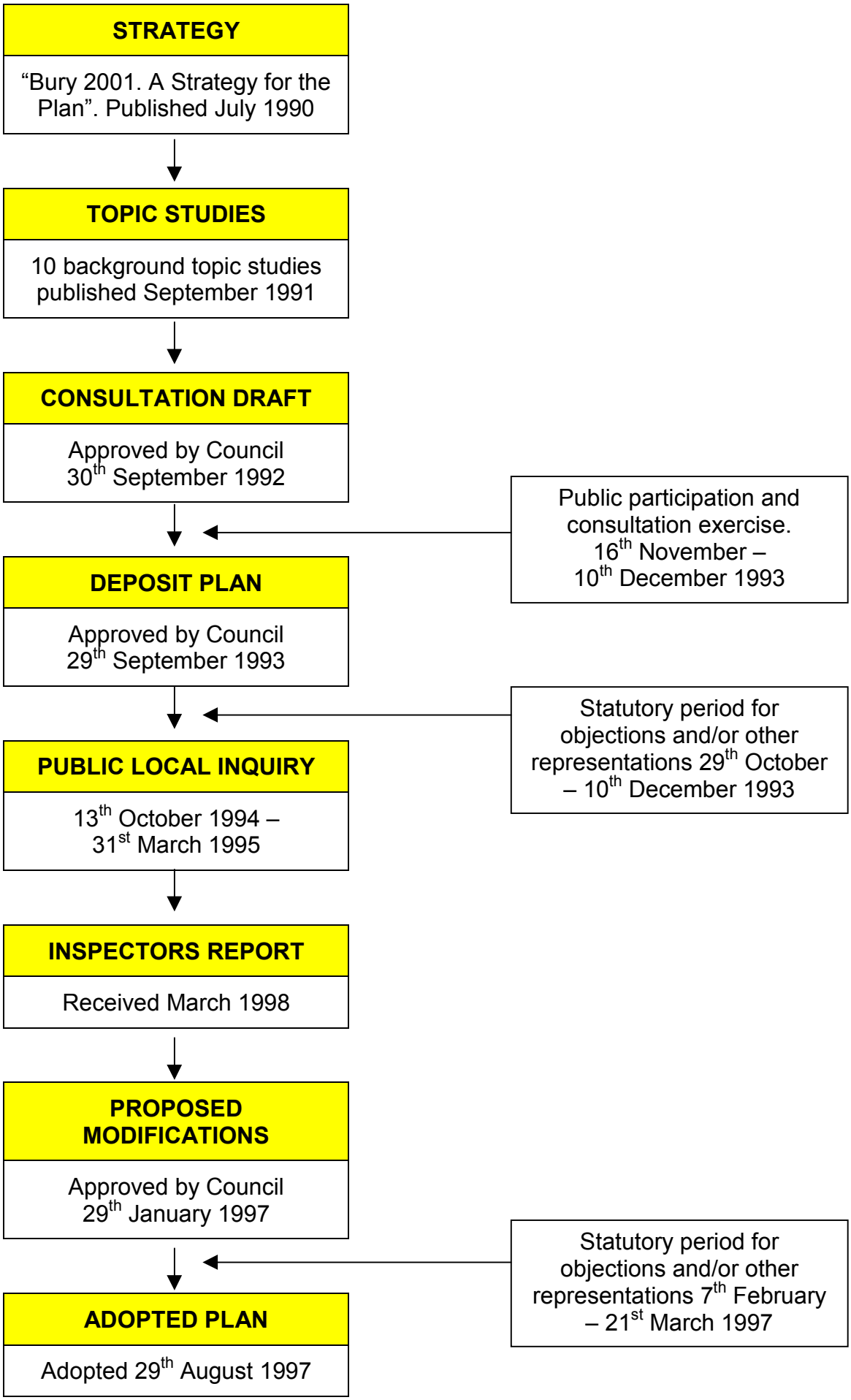APPENDIX 1 : UDP PREPARATION PROCESS