Considerando il router fondamentale per il subnetting ho deciso di utilizzare 4 router per 4 subnetting di conseguenza 1 ogni piano e ho diviso la rete utilizzando /26 in modo da ottimizzare al meglio creando 62 host disponibili per ciascun piano dato che oltre ai pc vanno considerati altri dispositivi come stampanti, access point e server.

EDIFICIO 1

PIANO 1:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.1.63

IP NETWORK : 192.168.1.0

IP GATEWAY : 192.168.1.1

IP HOST : 192.168.1.1 - 192.168.1.62

PIANO 2:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.1.127

IP NETWORK : 192.168.1.64

IP GATEWAY : 192.168.1.65

IP HOST : 192.168.1.65 - 192.168.1.126

PIANO 3:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.1.191

IP NETWORK : 192.168.1.128

IP GATEWAY : 192.168.1.129

IP HOST : 192.168.1.129 - 192.168.1.190

PIANO 4:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.1.255

IP NETWORK : 192.168.1.192

IP GATEWAY : 192.168.1.193

IP HOST : 192.168.1.193 - 192.168.1.254

EDIFICIO 2

PIANO 4:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.2.63

IP NETWORK : 192.168.2.0

IP GATEWAY : 192.168.2.1

IP HOST : 192.168.2.1 - 192.168.2.62

PIANO 2:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.2.127

IP NETWORK : 192.168.2.64

IP GATEWAY : 192.168.2.65

IP HOST : 192.168.2.65 - 192.168.2.126

PIANO 3:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.2.191

IP NETWORK : 192.168.2.128

IP GATEWAY : 192.168.2.129

IP HOST : 192.168.2.129 - 192.168.2.190

PIANO 4:

30 pc, 1 switch, 1 acc point, 1 router

IP BROADCAST : 192.168.2.255

IP NETWORK : 192.168.2.192

IP GATEWAY : 192.168.2.193

IP HOST : 192.168.2.193 - 192.168.2.254

PREVENTIVO SPESA

SWITCH X8 500 euro

SERVER X1 3000 euro

ROUTER X8 2300 euro

FIREWALL X1 50000euro

PC X245 98000euro

STAMPANTE X8 24000euro

CAVI 3000 euro

TOT : 180000 euro