|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Interface** | **IP Address** | **Subnet Mask** | **Default Gateway** |
| Building1 | G0/0 | 192.168.72.129 | 255.255.255.240 | N/A |
| Building1 | G0/1 | 192.168.72.97 | 255.255.255.224 | N/A |
| Building1 | S0/0/0 | 192.168.72.145 | 255.255.255.252 | N/A |
| Building2 | G0/0 | 192.168.72.65 | 255.255.255.224 | N/A |
| Building2 | G0/1 | 192.168.72.1 | 255.255.255.192 | N/A |
| Building2 | S0/0/0 | 192.168.72.146 | 255.255.255.252 | N/A |
| ASW-1 | VLAN 1 | 192.168.72.130 | 255.255.255.240 | 192.168.72.129 |
| ASW-2 | VLAN 1 | 192.168.72.98 | 255.255.255.224 | 192.168.72.97 |
| ASW-3 | VLAN 1 | 192.168.72.66 | 255.255.255.224 | 192.168.72.65 |
| ASW-4 | VLAN 1 | 192.168.72.2 | 255.255.255.192 | 192.168.72.1 |
| Host-A | NIC | 192.168.72.142 | 255.255.255.240 | 192.168.72.129 |
| Host-B | NIC | 192.168.72.126 | 255.255.255.224 | 192.168.72.97 |
| Host-C | NIC | 192.168.72.94 | 255.255.255.224 | 192.168.72.65 |
| Host-D | NIC | 192.168.72.62 | 255.255.255.192 | 192.168.72.1 |

| **Subnet Description** | **Number of Hosts Needed** | **Network Address/CIDR** | **First Usable Host Address** | **Broadcast Address** |
| --- | --- | --- | --- | --- |
| **ASW-1** | 7 (16) | 192.168.72.128/28 | 192.168.72.129 | 192.168.72.143 |
| **ASW-2** | 15 (32) | 192.168.72.96/27 | 192.168.72.97 | 192.168.72.127 |
| **ASW-3** | 29 (32) | 192.168.72.64/27 | 192.168.72.65 | 192.168.72.95 |
| **ASW-4** | 58 (64) | 192.168.72.0/26 | 192.168.72.1 | 192.168.72.63 |
| WAN | 2 (4) | 192.168.72.144/30 | 192.168.72.145 | 192.168.72.147 |