

## Summary

Summary	Address Available/Required	IP Subnets Assigned
(1) /23 supernet assigned for Computer Science Network Lab	512/0	10.254.252.0/23
(1) /24 "class C" range for end device VLANs	255/0	10.254.252.0/24
(1) /24 "class C" range for infrastructure addressing	255/0	10.254.253.0/24
<b>End Device VLANs - DHCP Enabled</b>		
VLAN 100 - Butter primary HSRP	30/13	10.254.252.224/27
VLAN 200 - Horse primary HSRP	30/13	10.254.252.192/27
VLAN 300 - Razor primary HSRP	30/23	10.254.252.160/27
VLAN 400 - Littleneck primary HSRP	30/23	10.254.252.128/27
<b>Infrastructure Subnets</b>		
VLAN 510 - Butter, Horse, & Banana Management	6/3	10.254.253.240/29
VLAN 530 - Butter, Horse, Geoduck Routing	6/3	10.254.253.232/29
Butter Int FE0/1 & Horse Int FE0/1 Routing	2/2	10.254.253.252/30
VLAN 520 - Razor, Littleneck, Leopard, & Geoduck Management	6/4	10.254.253.224/29
VLAN 540 - Razor, Littleneck, & Geoduck Routing	6/3	10.254.253.216/29
Razor Int FE0/1 & Littleneck Int FE0/1 Routing	2/2	10.254.253.248/30

.0/24	.128/25	.192/26	.224/27	.240/28	.248/29	.252/30	Assignment
254	126	61	30	14	6	2	Usable Addresses
0-255	0-127	0-63	0-31	0-15	0-7	0-3	
						4-7	
					8-15	8-11	
						12-15	
				16-31	16-23	16-19	
						20-23	
					24-31	24-27	
						28-31	
			32-63	32-47	32-39	32-35	
						36-39	
					40-47	40-43	
						44-47	
				48-63	48-55	48-51	
						52-55	
					56-63	56-59	
						60-63	
		64-127	64-95	64-79	64-71	64-67	
						68-71	
					72-79	72-75	
						76-79	
				80-95	80-87	80-83	
						84-87	
					88-95	88-91	
						92-95	
			96-127	96-111	96-103	96-99	
						100-103	
					104-111	104-107	
						108-111	
				112-127	112-119	112-115	
						116-119	
					120-127	120-123	
						124-127	
	128-255	128-191	128-159	128-143	128-135	128-131	VLAN 400
						132-135	
					136-143	136-139	
						140-143	
				144-159	144-151	144-147	
						148-151	
					152-159	152-155	
						156-159	
			160-191	160-171	160-167	160-163	VLAN 300
						164-167	
					168-171	168-171	
						172-175	
				176-191	176-183	176-179	
						180-183	
					184-191	184-187	
						188-191	
		192-255	192-223	192-207	192-199	192-195	VLAN 200
						196-199	
					200-207	200-203	
						204-207	
				208-223	208-215	208-211	
						212-215	
					216-223	216-219	
						220-223	
			224-255	224-239	224-231	224-227	VLAN 100
						228-231	
					232-239	232-235	
						236-239	
				240-255	240-247	240-243	
						244-247	
					248-255	248-251	
						252-255	

10.254.253.0(24) Infrastructure

.0/24	.128/25	.192/26	.224/27	.240/28	.248/29	.252/30	Assignment
254	126	61	30	14	6	2	Usable Addresses
0-255	0-127	0-63	0-31	0-15	0-7	0-3	
					8-15	4-7	
						8-11	
						12-15	
				16-31	16-23	16-19	
						20-23	
					24-31	24-27	
						28-31	
			32-63	32-47	32-39	32-35	
						36-39	
					40-47	40-43	
						44-47	
				48-63	48-55	48-51	
						52-55	
					56-63	56-59	
						60-63	
		64-127	64-95	64-79	64-71	64-67	
						68-71	
					72-79	72-75	
						76-79	
				80-95	80-87	80-83	
						84-87	
					88-95	88-91	
						92-95	
			96-127	96-111	96-103	96-99	
						100-103	
					104-111	104-107	
						108-111	
				112-127	112-119	112-115	
						116-119	
					120-127	120-123	
						124-127	
	128-255	128-191	128-159	128-143	128-135	128-131	
						132-135	
					136-143	136-139	
						140-143	
				144-159	144-151	144-147	
						148-151	
					152-159	152-155	
						156-159	
			160-191	160-171	160-167	160-163	
						164-167	
					168-171	168-171	
						172-175	
				176-191	176-183	176-179	
						180-183	
					184-191	184-187	
						188-191	
		192-255	192-223	192-207	192-199	192-195	
						196-199	
					200-207	200-203	
						204-207	
				208-223	208-215	208-211	
						212-215	
					216-223	216-219	VLAN 540 Routing
						220-223	
			224-255	224-239	224-231	224-227	VLAN 520 MGMT
						228-231	
					232-239	232-235	VLAN 530 Routing
						236-239	
				240-255	240-247	240-243	VLAN 510 MGMT
						244-247	
					248-255	248-251	Razor FE0/1 to Littleneck FE0/1
						252-255	Butter FE0/1 to Horse FE0/1

## Routers

Name	Interface	IP Address	Comment	HRSP VIP	HSRP Pri/Sec	DHCP
Butter	F0/0 VLAN 100	10.254.252.225/27	End Devices	10.254.252.227/27	Primary	
Butter	F0/0 VLAN 200	10.254.252.193/27	End Devices	10.254.252.195/27	Secondary	
Butter	F0/0 VLAN 510	10.254.253.241/29	Infrastructure MGMT	N/A	N/A	N/A
Butter	F0/0 VLAN 530	10.254.253.233/29	Infrastructure Routing	N/A	N/A	N/A
Butter	F0/1	10.254.253.253/30	to Horse F0/1	N/A	N/A	N/A
Horse	F0/0 VLAN 100	10.254.252.226/27	End Devices	10.254.252.227/27	Secondary	
Horse	F0/0 VLAN 200	10.254.252.194/27	End Devices	10.254.252.195/27	Primary	
Horse	F0/0 VLAN 510	10.254.253.242/29	Infrastructure MGMT	N/A	N/A	N/A
Horse	F0/0 VLAN 530	10.254.253.234/29	Infrastructure Routing	N/A	N/A	N/A
Horse	F0/1	10.254.253.254/30	to Butter F0/1	N/A	N/A	N/A
Razor	F0/0 VLAN 300	10.254.252.161/27	End Devices	10.254.252.163/27	Primary	
Razor	F0/0 VLAN 400	10.254.252.129/27	End Devices	10.254.252.131/27	Secondary	
Razor	F0/0 VLAN 520	10.254.253.225/29	Infrastructure MGMT	N/A	N/A	N/A
Razor	F0/0 VLAN 540	10.254.253.217/29	Infrastructure Routing	N/A	N/A	N/A
Razor	F0/1	10.254.253.249/30	to Littleneck F0/1	N/A	N/A	N/A
Littleneck	F0/0 VLAN 300	10.254.252.162/27	End Devices	10.254.252.163/27	Secondary	
Littleneck	F0/0 VLAN 400	10.254.252.130/27	End Devices	10.254.252.131/27	Primary	
Littleneck	F0/0 VLAN 520	10.254.253.226/29	Infrastructure MGMT	N/A	N/A	N/A
Littleneck	F0/0 VLAN 540	10.254.253.218/29	Infrastructure Routing	N/A	N/A	N/A
Littleneck	F0/1	10.254.253.250/30	to Razor F0/1	N/A	N/A	N/A

## Switches

Switch	Port	Description	VLAN	IP Subnet/Address	Comment
Banana	1	End Device VLAN 100	100		
Banana	2	End Device VLAN 100	100		
Banana	3	End Device VLAN 100	100		
Banana	4	End Device VLAN 100	100		
Banana	5	End Device VLAN 100	100		
Banana	6	End Device VLAN 100	100		
Banana	7	End Device VLAN 100	100		
Banana	8	End Device VLAN 100	100		
Banana	9	End Device VLAN 100	100		
Banana	10	End Device VLAN 100	100		
Banana	11	End Device VLAN 200	200		
Banana	12	End Device VLAN 200	200		
Banana	13	End Device VLAN 200	200		
Banana	14	End Device VLAN 200	200		
Banana	15	End Device VLAN 200	200		
Banana	16	End Device VLAN 200	200		
Banana	17	End Device VLAN 200	200		
Banana	18	End Device VLAN 200	200		
Banana	19	End Device VLAN 200	200		
Banana	20	End Device VLAN 200	200		
Banana	21	SPAN VLAN 100	SPAN	N/A	
Banana	22	Geoduck Port 23 Routing	530	10.254.253.232/29	
Banana	23	Horse FE0/0	100, 200, 510, 530	N/A	
Banana	24	Butter FE0/0	100, 200, 510, 530	N/A	
Banana	VLAN 510	Management	510	10.254.253.243	
Leopard	1	End Device VLAN 300	300		
Leopard	2	End Device VLAN 300	300		
Leopard	3	End Device VLAN 300	300		
Leopard	4	End Device VLAN 300	300		
Leopard	5	End Device VLAN 300	300		
Leopard	6	End Device VLAN 300	300		
Leopard	7	End Device VLAN 300	300		
Leopard	8	End Device VLAN 300	300		
Leopard	9	End Device VLAN 300	300		
Leopard	10	End Device VLAN 300	300		
Leopard	11	End Device VLAN 400	400		
Leopard	12	End Device VLAN 400	400		
Leopard	13	End Device VLAN 400	400		
Leopard	14	End Device VLAN 400	400		
Leopard	15	End Device VLAN 400	400		
Leopard	16	End Device VLAN 400	400		
Leopard	17	End Device VLAN 400	400		
Leopard	18	End Device VLAN 400	400		
Leopard	19	End Device VLAN 400	400		
Leopard	20	End Device VLAN 400	400		
Leopard	21	SPAN VLAN 300	SPAN	N/A	
Leopard	22	Geoduck Port 24 Routing	530		
Leopard	23	Littleneck FE0/0	300, 400, 520, 540	N/A	
Leopard	24	Razor FE0/0	300, 400, 520, 540	N/A	
Leopard	VLAN 520	Management	520	10.254.253.227/29	
Geoduck	1	End Device VLAN 300	300		
Geoduck	2	End Device VLAN 300	300		
Geoduck	3	End Device VLAN 300	300		
Geoduck	4	End Device VLAN 300	300		
Geoduck	5	End Device VLAN 300	300		
Geoduck	6	End Device VLAN 300	300		
Geoduck	7	End Device VLAN 300	300		
Geoduck	8	End Device VLAN 300	300		
Geoduck	9	End Device VLAN 300	300		
Geoduck	10	End Device VLAN 300	300		
Geoduck	11	End Device VLAN 400	400		
Geoduck	12	End Device VLAN 400	400		
Geoduck	13	End Device VLAN 400	400		
Geoduck	14	End Device VLAN 400	400		
Geoduck	15	End Device VLAN 400	400		
Geoduck	16	End Device VLAN 400	400		
Geoduck	17	End Device VLAN 400	400		
Geoduck	18	End Device VLAN 400	400		
Geoduck	19	End Device VLAN 400	400		
Geoduck	20	End Device VLAN 400	400		
Geoduck	21	SPAN VLAN 400	SPAN		
Geoduck	22	SPAN Geoduck Port 23	SPAN		

## Switches

Geoduck	23	Banana port 22 Routing	Routing		
Geoduck	24	Leopard port 22	300, 400, 520, 540		
Geoduck	25	unused & disabled	99		VLAN 99 is non-routed and unused.
Geoduck	26	unused & disabled	99		
Geoduck	27	unused & disabled	99		
Geoduck	28	unused & disabled	99		
Geoduck	29	unused & disabled	99		
Geoduck	30	unused & disabled	99		
Geoduck	31	unused & disabled	99		
Geoduck	32	unused & disabled	99		
Geoduck	33	unused & disabled	99		
Geoduck	34	unused & disabled	99		
Geoduck	35	unused & disabled	99		
Geoduck	36	unused & disabled	99		
Geoduck	37	unused & disabled	99		
Geoduck	38	unused & disabled	99		
Geoduck	39	unused & disabled	99		
Geoduck	40	unused & disabled	99		
Geoduck	41	unused & disabled	99		
Geoduck	42	unused & disabled	99		
Geoduck	43	unused & disabled	99		
Geoduck	44	unused & disabled	99		
Geoduck	45	unused & disabled	99		
Geoduck	46	unused & disabled	99		
Geoduck	47	unused & disabled	99		
Geoduck	48	unused & disabled	99		
Geoduck	VLAN 520	Management	520	10.254.253.228/29	
Geoduck	VLAN 540	Routing	540	10.254.253.219/29	

## Patch Panels

Name	Port Number	Label	Device	Port	Description
PP 1	1	Banana G1 V100	Banana	1	V100
PP 1	2	Banana G2 V100	Banana	2	V100
PP 1	3	Banana G3 V100	Banana	3	V100
PP 1	4	Banana G4 V100	Banana	4	V100
PP 1	5	Banana G5 V100	Banana	5	V100
PP 1	6	Banana G6 V100	Banana	6	V100
PP 1	7	Banana G7 V100	Banana	7	V100
PP 1	8	Banana G8 V100	Banana	8	V100
PP 1	9	Banana G9 V100	Banana	9	V100
PP 1	10	Banana G10 V100	Banana	10	V100
PP 1	11	Banana G11 V200	Banana	11	V200
PP 1	12	Banana G12 V200	Banana	12	V200
PP 1	13	Banana G13 V200	Banana	13	V200
PP 1	14	Banana G14 V200	Banana	14	V200
PP 1	15	Banana G15 V200	Banana	15	V200
PP 1	16	Banana G16 V200	Banana	16	V200
PP 1	17	Banana G17 V200	Banana	17	V200
PP 1	18	Banana G18 V200	Banana	18	V200
PP 1	19	Banana G19 V200	Banana	19	V200
PP 1	20	Banana G20 V200	Banana	20	V200
PP 1	21	Banana G21 SPAN V100	Banana	21	SPAN V100
PP 1	22	TAP A M1 Butter FE0/1	TAP A	M1	Butter FE0/1
PP 1	23	TAP A M2 Butter FE0/1	TAP A	M2	Butter FE0/1
PP 1	24	TAP A M3 Butter FE0/1	TAP A	M3	Butter FE0/1
PP 2	1	Leopard G1 V300	Leopard	1	V300
PP 2	2	Leopard G2 V300	Leopard	2	V300
PP 2	3	Leopard G3 V300	Leopard	3	V300
PP 2	4	Leopard G4 V300	Leopard	4	V300
PP 2	5	Leopard G5 V300	Leopard	5	V300
PP 2	6	Leopard G6 V300	Leopard	6	V300
PP 2	7	Leopard G7 V300	Leopard	7	V300
PP 2	8	Leopard G8 V300	Leopard	8	V300
PP 2	9	Leopard G9 V300	Leopard	9	V300
PP 2	10	Leopard G10 V300	Leopard	10	V300
PP 2	11	Leopard G11 V400	Leopard	11	V400
PP 2	12	Leopard G12 V400	Leopard	12	V400
PP 2	13	Leopard G13 V400	Leopard	13	V400
PP 2	14	Leopard G14 V400	Leopard	14	V400
PP 2	15	Leopard G15 V400	Leopard	15	V400
PP 2	16	Leopard G16 V400	Leopard	16	V400
PP 2	17	Leopard G17 V400	Leopard	17	V400
PP 2	18	Leopard G18 V400	Leopard	18	V400
PP 2	19	Leopard G19 V400	Leopard	19	V400
PP 2	20	Leopard G20 V400	Leopard	20	V400
PP 2	21	Leopard G21 SPAN V300	Leopard	21	SPAN V300
PP 2	22	TAP B M1 Leopard G22	TAP B	M1	Leopard G22
PP 2	23	TAP B M2 Leopard G22	TAP B	M2	Leopard G22
PP 2	24	TAP B M3 Leopard G22	TAP B	M3	Leopard G22
PP 3	1	Geoduck G1 V300	Geoduck	1	V300
PP 3	2	Geoduck G2 V300	Geoduck	2	V300
PP 3	3	Geoduck G3 V300	Geoduck	3	V300
PP 3	4	Geoduck G4 V300	Geoduck	4	V300
PP 3	5	Geoduck G5 V300	Geoduck	5	V300
PP 3	6	Geoduck G6 V300	Geoduck	6	V300
PP 3	7	Geoduck G7 V300	Geoduck	7	V300

## Patch Panels

PP 3	8	Geoduck G8 V300	Geoduck	8	V300
PP 3	9	Geoduck G9 V300	Geoduck	9	V300
PP 3	10	Geoduck G10 V300	Geoduck	10	V300
PP 3	11	Geoduck G11 V400	Geoduck	11	V400
PP 3	12	Geoduck G12 V400	Geoduck	12	V400
PP 3	13	Geoduck G13 V400	Geoduck	13	V400
PP 3	14	Geoduck G14 V400	Geoduck	14	V400
PP 3	15	Geoduck G15 V400	Geoduck	15	V400
PP 3	16	Geoduck G16 V400	Geoduck	16	V400
PP 3	17	Geoduck G17 V400	Geoduck	17	V400
PP 3	18	Geoduck G18 V400	Geoduck	18	V400
PP 3	19	Geoduck G19 V400	Geoduck	19	V400
PP 3	20	Geoduck G20 V400	Geoduck	20	V400
PP 3	21	Geoduck G21 SPAN V400	Geoduck	21	SPAN V400
PP 3	22	Geoduck G22 SPAN Geoduck G23	Geoduck	22	SPAN Geoduck G23
PP 3	23	Unused	Unused		
PP 3	24	Unused	Unused		