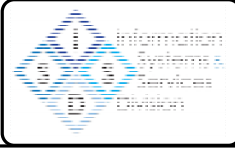
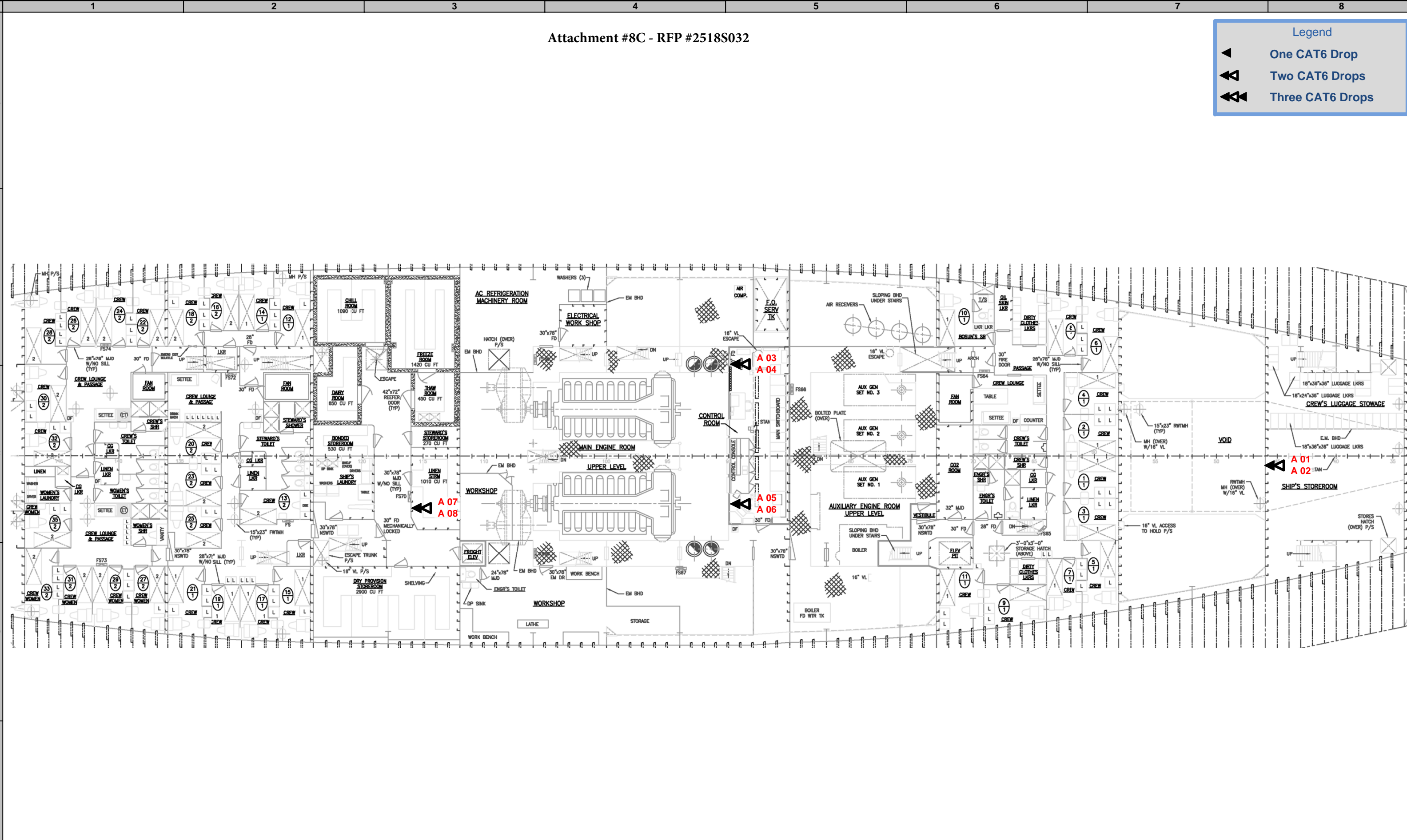


Legend

- ▲ One CAT6 Drop
- ▲▲ Two CAT6 Drops
- ▲▲▲ Three CAT6 Drops

A
B
C
D
E



Legend

Second

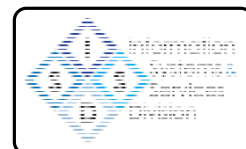
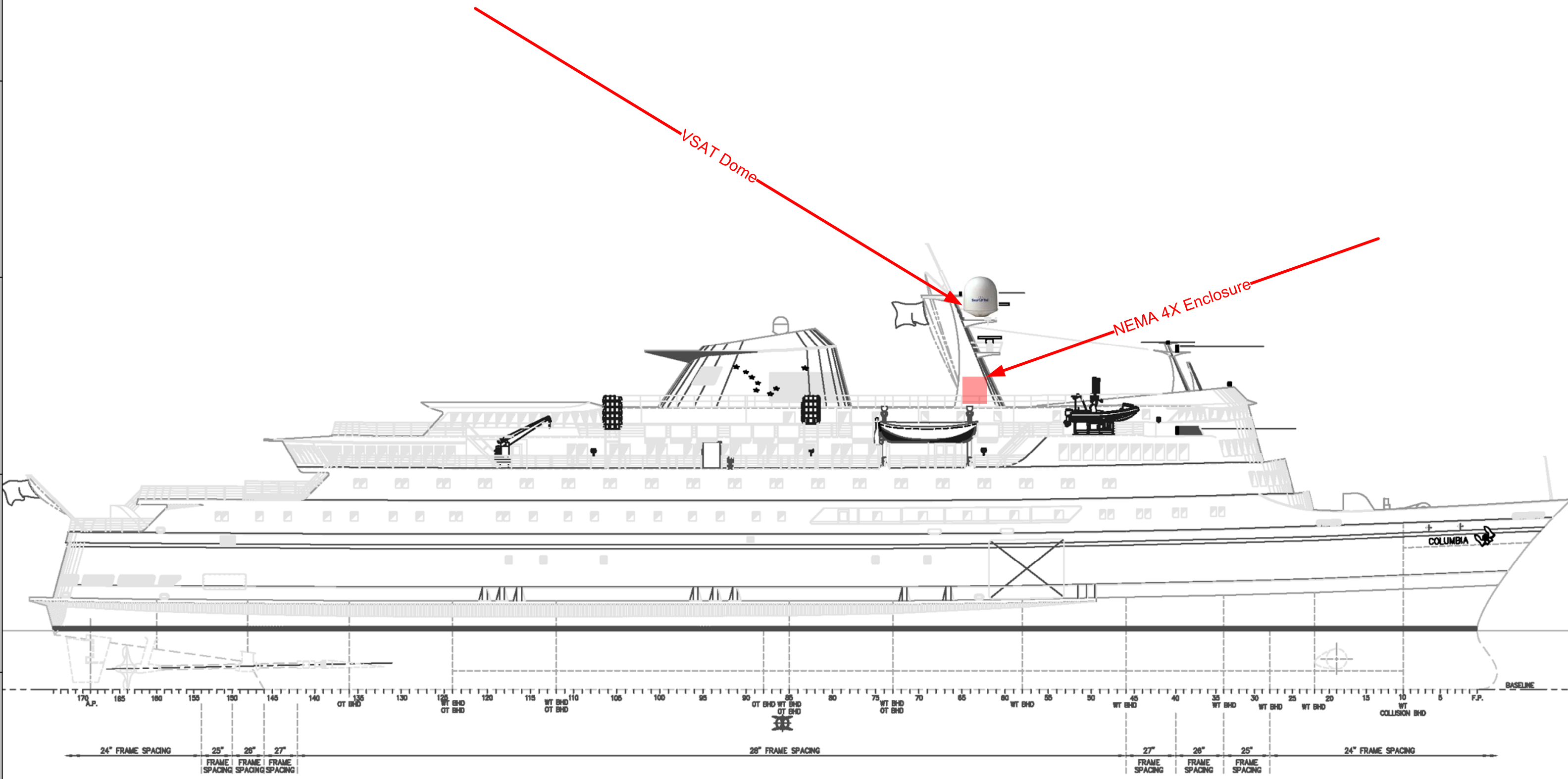
Drawing ID:	2017-05-17 ColumbiaNetworkProject R05.vsd
Drawn By:	A. Schultz
Date:	04/10/2017
Approved:	A. Schultz
Last Edited:	04/10/2017
Scale:	NTS
Sheet:	10



Columbia Network Starboard Elevation

A
B
C
D
E

1 2 3 4 5 6 7 8



Legend	

Elevation	
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Approved: A. Schultz	Sheet: 11
Scale: NTS	



Patch Panel A



Patch Panel B



Patch Panel C



Meraki MS-220-48LP



Meraki MS-220-24P
- Point of Sale Switch



Meraki MX60



APC PDU AP9565



Patch Panel C



SeaTel ACU



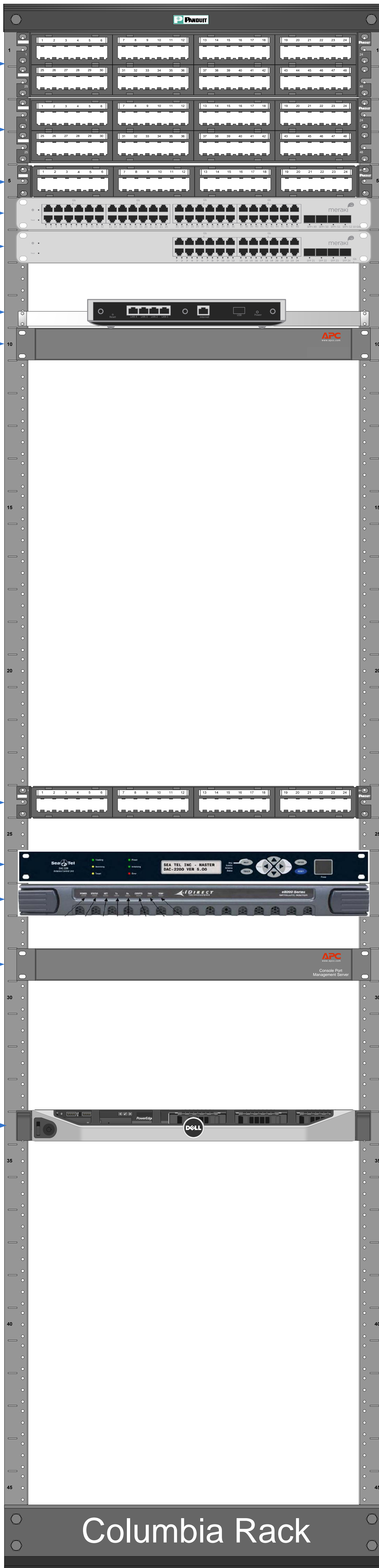
iDirect Modem



APC PDU AP9565



Dell PowerEdge R420



Columbia Rack



Legend

Rack Layout

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Approved:	A. Schultz	Last Edited:	04/10/2017
Scale:	NTS		
		Sheet:	12



STATE OF ALASKA

Columbia Patch Panel Layout



Patch Panel A (T568A)

Jack	Location	Deck	Device
1	Eng Parts	2nd	
2	Eng Parts	2nd	
3	EOS Port	2nd	
4	EOS Port	2nd	
5	EOS Stbd	2nd	
6	EOS Stbd	2nd	
7	Stwd Stores	2nd	
8	Stwd Stores	2nd	
9	Car Door Port	Main	
10	Car Door Stbd	Main	
11	Steward Office	Upper	
12	Steward Office	Upper	
13	Steward Office	Upper	
14	Steward Office	Upper	
15	Steward Office	Upper	
16	Steward Office	Upper	
17	Purser Counter	Upper	
18	Purser Counter	Upper	
19	Purser Counter	Upper	
20	Purser Counter	Upper	
21	Purser Counter Bck	Upper	
22	Purser Office	Upper	
23	Purser Office	Upper	
24	Purser PIDS	Upper	
25	Kiosk Port	Upper	
26	Kiosk Stbd	Upper	
27	First Aid Room	Upper	
28	Obs PIDS	Cabin	
29	Gift Shop	Cabin	
30	Gift Shop	Cabin	
31	Gift Shop	Cabin	
32	Gift Shop	Cabin	
33	UPS	Cabin	
34	Eng Print Room	Cabin	
35	Pantry	Cabin	
36	Officer Mess	Cabin	
37	Crew Mess	Cabin	
38	Crew Mess Training	Cabin	
39	Crew Mess Training	Cabin	
40	Obs PIDS	Boat	
41	Lounge PIDS	Boat	
42	Bar POS	Boat	
43	Cafeteria POS	Boat	
44	Cafeteria PIDS	Boat	
45	Galley Food Prep	Boat	
46	Galley Food Prep	Boat	
47	Dining Food Prep	Boat	
48	Dining Food Prep	Boat	

Patch Panel B (T568B)

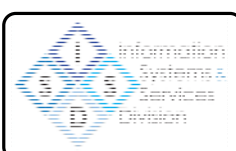
Jack	Location	Deck	Device
1	Dining Food Prep	Boat	
2	Dining Food Prep	Boat	
3	Dining Pids	Boat	
4	Dining Cashier	Boat	
5	Dining Serv Stn	Boat	
6	Dining Serv Stn	Boat	
7	TRANSAS	Nav	
8	Bridge Port Desk	Nav	
9	Bridge Chart Desk	Nav	
10	Bridge Chart Desk	Nav	
11	Bridge Chart Desk	Nav	
12	Bridge Chart Desk	Nav	
13	Radio Room	Nav	
14	Radio Room	Nav	
15	Master Office	Nav	
16	Master Office	Nav	
17	Pilot 302	Nav	
18	Sharp Linen Lckr	Nav	
19	3rd Mate 304	Nav	
20	Chief Mate 301	Nav	
21	2nd Mate 303	Nav	
22	2nd Engr 306	Nav	
23	3rd Engr 305	Nav	
24	2nd Engr 307	Nav	
25	1st Engr 310	Nav	
26	Chief Engr	Nav	
27	Chief Engr	Nav	
28	3rd Engr 312	Nav	
29	Chief Purser 314	Nav	
30	Chief Purser 314	Nav	
31	Chief Steward 309	Nav	
32	Chief Steward 309	Nav	
33	External Enclosure	Top	
34	External Enclosure	Top	
35	External Enclosure	Top	
36	External Enclosure	Top	
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			

Patch Panel C (T568B)

Jack	Location	Deck	Device
1	ATM Main Lobby	Upper	ATM
2	Payphone Main Lobby	Upper	Phone
3	Ctr Ln 52 Main Lobby	Upper	WAP 1
4	Ctr Ln 39 Theater	Cabin	WAP 2
5	Ctr Ln 42 Fwd Lounge	Upper	Wap 3
6	Ctr Ln 133, Dining Room	Upper	Wap 4
7			
8			
9			
10			
11			
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14			
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17			
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20			
21			
22			
23			
24			

Notes:

Patch Panel B, Port 410 – The cable is run above the old payphone in the main lobby. It is in the overhead, not terminated and unused at this time.



Legend

Patch Panel Layout

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Approved:	A. Schultz	Last Edited:	04/10/2017
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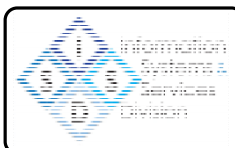
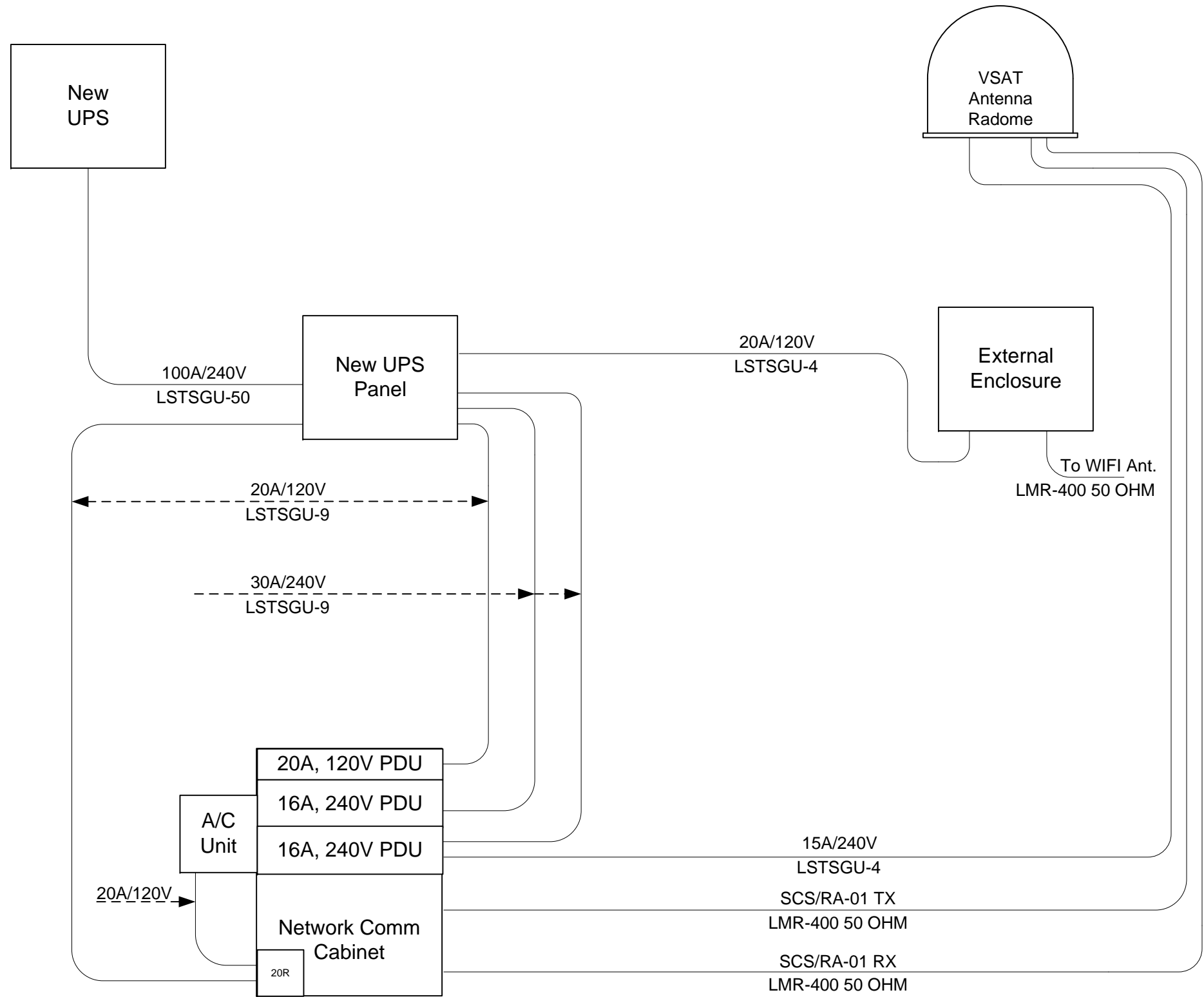
STATE OF ALASKA

Columbia Electrical One Line

Panel L2

Breaker Panel Layout

1	30A 240V PDU 1	30A 240V PDU 2	2
3			4
5	15A External Enclosure	20A 120V PDU	6
7	20A A/C Unit	Open	8
9	Open	Open	10
11	Open	Open	12
13	Open	Open	14



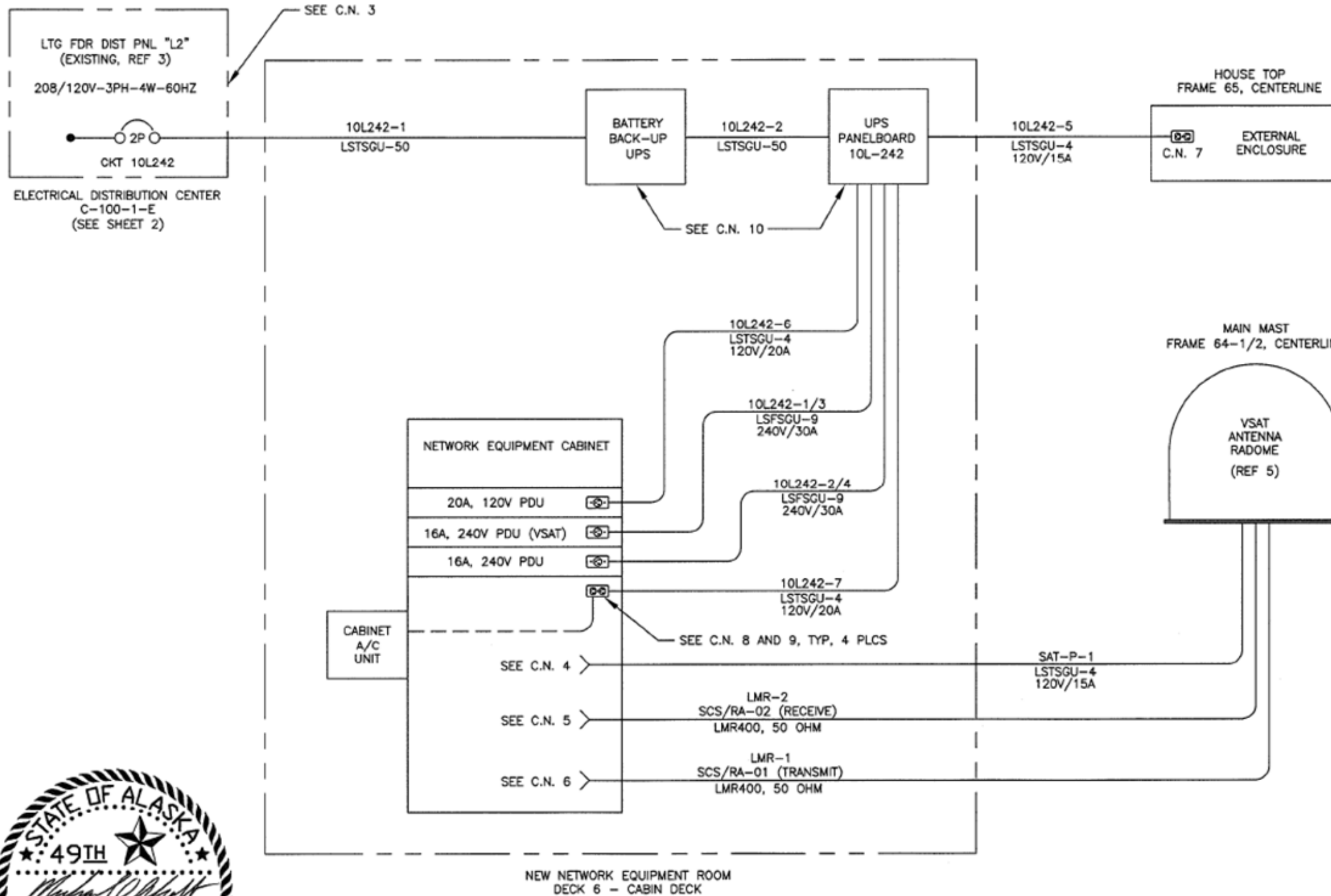
Legend

Electrical One Line

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Drawn By: A. Schultz	Date: 04/10/2017
Approved: A. Schultz	Last Edited: 04/10/2017
Scale: NTS	Sheet: 14



Columbia UPS Electrical



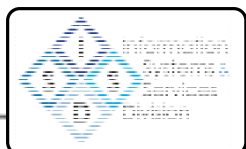
CONSTRUCTION NOTES

- (CONTINUED FROM ZONE 1-B1)
- POWER FOR THE NEW NETWORK ROOM UPS SHALL BE SUPPLIED FROM EXISTING LTG FEEDER DISTRIBUTION PANELBOARD L-2, WHICH IS LOCATED IMMEDIATELY AFT OF THE NEW WORKSHOP; SEE SHEET 2.
 - CABLE "SAT-P-1" CONNECTS TO "BUC POWER" TERMINALS OF ANTENNA CONTROL UNIT IN EQUIPMENT CABINET. OWNER WILL MAKE TERMINATIONS TO EQUIPMENT IN CABINET.
 - CABLE "LMR-2" CONNECTS TO "ANTENNA Rx" PORT OF ANTENNA CONTROL UNIT IN EQUIPMENT CABINET. OWNER WILL MAKE TERMINATION TO EQUIPMENT IN CABINET.
 - CABLE "LMR-1" CONNECTS TO "TX OUT" PORT OF SATELLITE ROUTER IN EQUIPMENT CABINET. OWNER WILL MAKE TERMINATION TO EQUIPMENT IN CABINET.
 - THE PANELBOARD BREAKER SERVING THE POWER RECEPTACLE IN THE NEW EXTERNAL ENCLOSURE ON THE HOUSE TOP SHALL BE OF GROUND FAULT INTERRUPT TYPE.
 - EACH RECEPTACLE IN THE NETWORK EQUIPMENT CABINET SHALL BE MOUNTED IN A SINGLE GANG JUNCTION BOX AT THE REAR OF THE CABINET. THEY SHALL BE MOUNTED AS CLOSE TO THE REAR DOOR AS POSSIBLE WITHOUT OBSTRUCTING DOOR FUNCTION. THE RECEPTACLE BOX OF CIRCUIT 10L242-1/3 SHALL BE MOUNTED SO THAT THE BOTTOM OF THE BOX IS LEVEL WITH THE BOTTOM OF RACK UNIT 04. THE JUNCTION BOX OF CIRCUIT 10L242-2/4 SHALL BE MOUNTED SO THAT THE BOTTOM OF THE BOX IS LEVEL WITH THE BOTTOM OF RACK UNIT 09. THE RECEPTACLE OF CIRCUIT 10L242-6 SHALL BE MOUNTED SO THAT THE BOTTOM OF THE BOX IS LEVEL WITH THE BOTTOM OF RACK UNIT 14. THE RECEPTACLE BOX OF CIRCUIT 10L242-7 SHALL BE MOUNTED SO THAT THE BOTTOM OF THE BOX IS LEVEL WITH THE BOTTOM OF RACK UNIT 19.
 - ALL RECEPTACLES AND JUNCTION BOXES SHALL BE GROUNDED AT NEW UPS PANELBOARD 10L-242.
 - UPS PANELBOARD 10-L-242 AND THE BATTERY BACK-UP UPS SHALL EACH BE GROUNDED TO VESSEL STRUCTURE.
 - THE PRE-EXISTING INCANDESCENT LIGHT FIXTURES SERVING THE ORIGINAL EMERGENCY GENERATOR ROOM SHALL BE REMOVED, ALONG WITH ASSOCIATED CABLING, BACK TO THE SOURCE PANELBOARD BREAKER (CIRCUIT EL8-3 IN PANELBOARD EL-8(TE). SEE SHEET 2 FOR LOCATION OF PANELBOARD EL-8(TE).
 - A NEW EMERGENCY LIGHTING CIRCUIT SHALL BE ESTABLISHED THAT WILL POWER TWO (2) NEW FLUORESCENT LIGHT FIXTURES IN THE NEW WORKSHOP AND ONE (1) NEW FLUORESCENT LIGHT FIXTURE IN THE NEW NETWORK ROOM FROM EXISTING 15-AMP CIRCUIT BREAKER EL8-3. CONSTRUCTION NOTE 11 RELATES.
 - A NEW NON-EMERGENCY LIGHTING CIRCUIT SHALL BE ESTABLISHED THAT WILL POWER FOUR (4) NEW FLUORESCENT LIGHT FIXTURES IN THE NEW WORKSHOP AND TWO (2) NEW FLUORESCENT LIGHT FIXTURES IN THE NEW NETWORK ROOM FROM AN EXISTING SPARE 15-AMP CIRCUIT BREAKER IN LIGHTING PANELBOARD L-4. SEE SHEET 2 FOR LOCATION OF PANELBOARD L-4.
 - SEE TECH SPEC FOR REQUIREMENTS PERTAINING TO DEALING WITH PRE-EXISTING/RETAINED INTERFERENCES ABOVE PRE-EXISTING SUSPENDED CEILING THAT WILL AFFECT INSTALLATION OF NEW BULKHEAD. NEW SUSPENDED CEILING SYSTEM SHALL BE INSTALLED AS HIGH AS PRACTICABLE AFTER ACCOUNTING FOR OVERHEAD INTERFERENCES. NOMINAL EXPECTED CLEAR HEIGHT ATTAINABLE UNDER NEW CEILING IS 86 INCHES.
 - NEW JOINER DOORS SHALL BE MML MARINE, INC., OR EQUAL, A-0/A-15 RATED STEEL JOINER DOORS, WITH STAINLESS HARDWARE. WORKSHOP SECONDARY ESCAPE DOOR SIZING WILL REQUIRE SPECIAL ORDER FABRICATION DUE TO UNIQUE SIZE REQUIREMENT. DOOR PROVIDING ACCESS BETWEEN WORKSHOP AND NETWORK ROOM SHALL BE PROVIDED WITH LOCKSET.



WIRING DIAGRAM 3-C2
ELECTRICAL POWER CABLING & ANTENNA COMMS CABLING
SCALE: NONE

CONTRACT GUIDANCE DRAWING



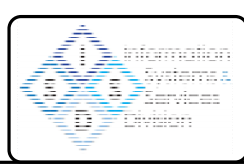
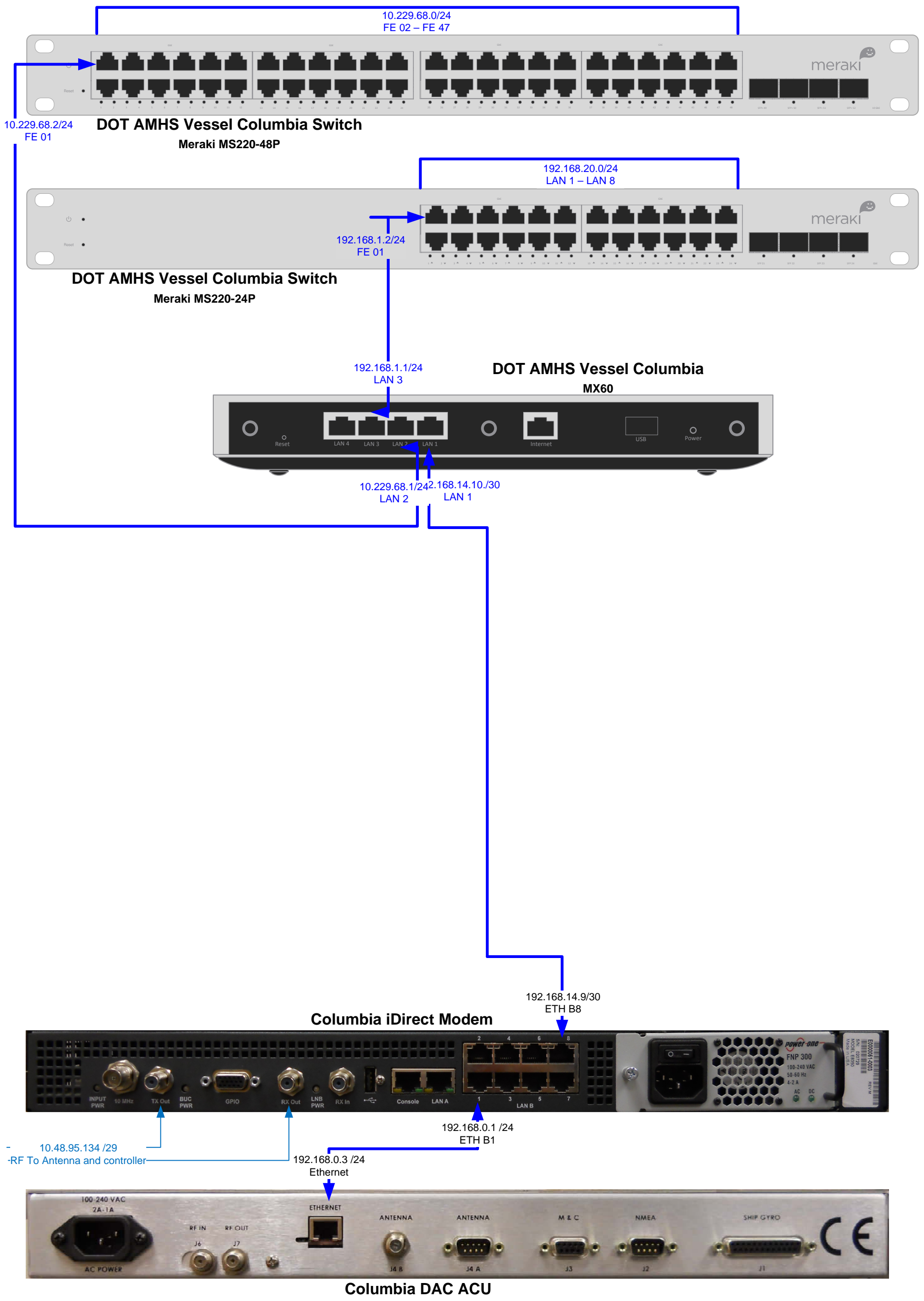
Legend

Electrical from Contractor

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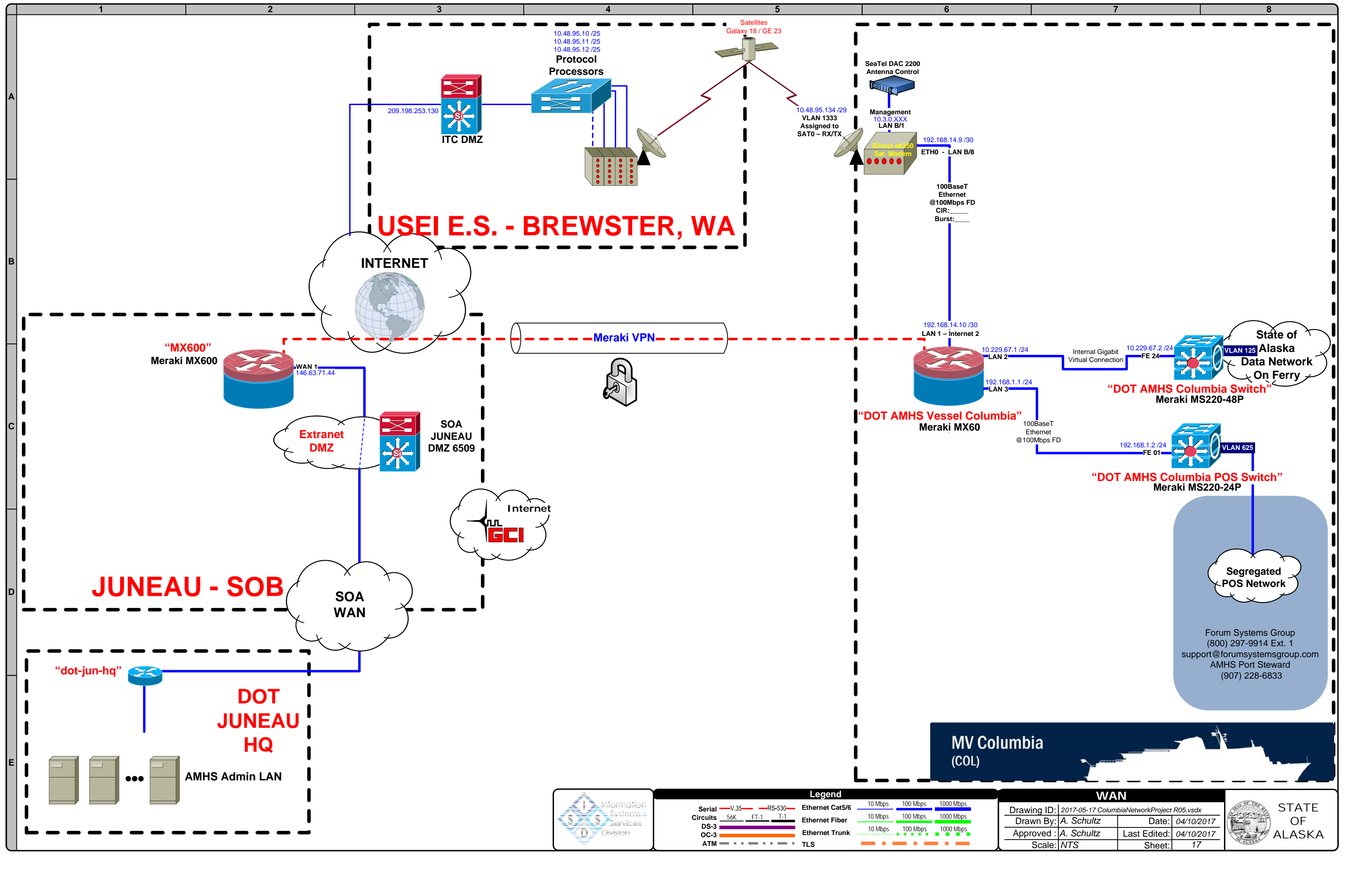
M/V Columbia Connection Diagram



Legend	

ConnectionDiagram	
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Approved:	A. Schultz
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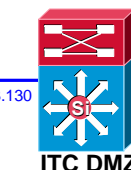
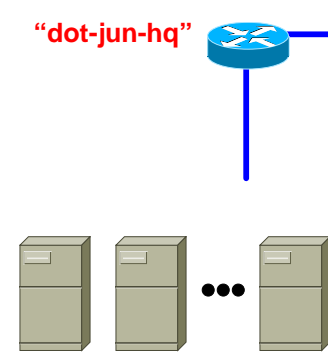
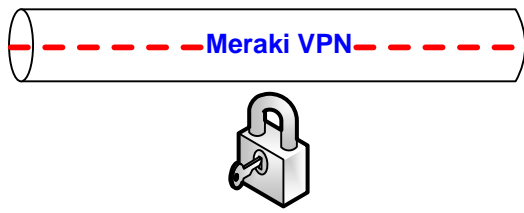
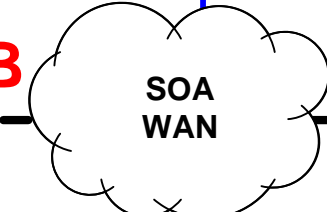
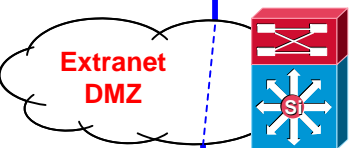
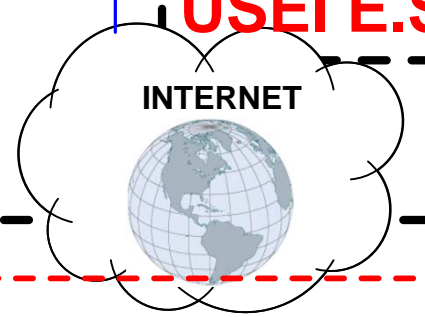


USEI E.S. - BREWSTER, WA

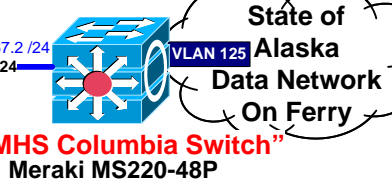
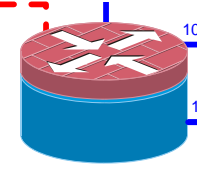
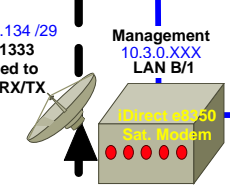
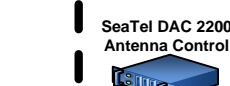
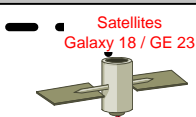
JUNEAU - SOB

DOT JUNEAU HQ

MV Columbia (COL)



10.48.95.10 /25
10.48.95.11 /25
10.48.95.12 /25



Segregated POS Network

Forum Systems Group
(800) 297-9914 Ext. 1
support@forumsystemsgroup.com
AMHS Port Steward
(907) 228-6833



Legend

Serial	V.35	RS-530	Ethernet Cat5/6	10 Mbps	100 Mbps	1000 Mbps
Circuits	56K	FT-1	I-1	10 Mbps	100 Mbps	1000 Mbps
DS-3			Ethernet Fiber	10 Mbps	100 Mbps	1000 Mbps
OC-3			Ethernet Trunk	10 Mbps	100 Mbps	1000 Mbps
ATM			TLS			

WAN

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