

























## Legend

	Serial Communications
	Ethernet Communications
	PPS Communications
	Optical Communications
	Dry-Mate Connector
	Wet-Mate Connector
	4-way U/W mateable connector
	12-way U/W mateable connector
	7-way U/W mateable connector
	8-O way ODI Flying Plug
	Hybrid 2e-4o U/W mate connector
	Manufacturer supplied connector
	Penetrator Hybrid 4o2e
136	VLAN (PVID;Q-tagged)
	Device disconnected
	Device to be connected
	Power (Ground)
	Power / Rubber
	Moulded Cable
	PBOF Cable
	Hybrid Long Extension Cable
	Seawater Reference (Isolation between power supplies and seawater)
	Hybrid 2e 4o Port Interface O-3.2 (long-haul)
	Hybrid 2e 4o Port Interface O-3.1 (short-haul)
R	Receptacle connector (female)
P	Plug connector (male)
PP	Connector end with parking position




Colors bands designating direction on cable (left color is upstream, right color is downstream)

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	<b>Marine Configuration Diagram</b>		
Updated by	Grant Francis	Page 1	

# Instructions on how to report errors

**In situations where an error is found in this diagram, please create a NEPDATA ticket with a description of the issue, and assign it to Triage.**

Version: MarineNetworkConfig\_2023-01-17  
(NEPDATA-22228) add a cover page to the Marine Configuration Diagram

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<b>Marine Configuration Diagram</b>			
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# NEPTUNE Recent Updates

Version: MarineNetworkConfig\_2024-10-23

(DSO-1941) Update marine config for post-expedition 2024-10 CanPac cruise

\*Barkley Upper Slope\*

\*pgs- 18\* - Barkley Canyon – Upper Slope South and Barkley Canyon – Upper Slope South

\* Camera system (DIs 86492, 85392, 86232, 86252, 23077) and cable extid 1118 recovered and disconnected from J10 of JB 03 per [recovery annotation|https://data.oceannetworks.ca/SeaTubeV3?resourceTypeld=600&resourceId=4801&time=2024-10-

11T17:32:18.496Z&annotationId=6579201]: Falmat extID 1118 recovered to ship. Oily extID 1416 left on sea floor

\*Formerly pg- 19- Deleted\* - Barkley Canyon – Upper Slope South Camera

\* Moved the recovered ONC CIB02 over to the Small Obs diagram under MTC section pg-79 ONC-CIB02

\*Clayoquot Slope Node\*

\*pg 24\* - Clayoquot Slope Node

\* Removed the replacement JB-09 as it didn't end up being swapped

\* Removed the red note regarding recovery of two ocean bottom pressure sensors (OBP-01 and OBP-06) for JAMSTEC/NRCan

\*Clayoquot Bullseye/Whale-fall\*

\*pg- 26\* - Clayoquot Slope - Bullseye

\* Recovery of CableID: 119 (103.EX.0010) did not happen- removed the red note

\*Clayoquot Slope:\*

\*pg- 28\* - Clayoquot Slope – ODP 1364A

\* Recobvery of JB-08 DI 10110 did not happen - red note removed

\*Formerly pg- 29-Deleted\* - Clayoquot Slope – ODP 1364A (planned)

\* Removed this page as JB swap did not happen - JB09 already exists in Small Obs diagram under MTC section

\*pg- 29\* - Clayoquot Slope – ODP 1364A

\* Removed the red not and red crosses as recovery of JB-08 did not happen

\*Formerly pg- 30-Deleted\* - Clayoquot Slope – ODP 1364A (planned)

\* removed this entire page since JB 09 ended up not being swapped with JB-08

\*Clayoquot Deformation (Front East)\*

\*pg 30\* - Autonomous Site - Clayoquot Deformation Front East (NCSZO)

\* RBR, Cervata DI 67640 replaced DI 67620

\*Clayoquot Deformation (Front West)\*

\*pg 32\* - Autonomous Site - Clayoquot Deformation Front West (NCSZO)

\* RBR, Cervata, DI 67641 replaced DI 67600 and old RBRfermata also deleted to be in line with this note from Hanoffnotes: 'we should also remove the accompanying Fermata of the old platform (old cervata DI 67600) that has no SN from Marine Config" - CAN006 dive

\*Folger Deep\*

\*pg - 52\* - Folger Deep IP

\* CTD/O2 swapped and new optode DIs 23841,23284,63960 deployed on J4 of JB-02 - per In position annotation https://data.oceannetworks.ca/

SeaTubeV3?resourceTypeld=600&resourceId=4401&time=2024-10-07T23:01:00.806Z&annotationId=6522201 and confirm osition annotation

https://data.oceannetworks.ca/app/dive-logs/4501?annotationId=6534601 in Dive CAN003 and Dive CAN004

Version: MarineNetworkConfig\_2024-10-21

DSO-1808 Marine Config Fall 2024 Minor Updates

\* pg 18 Barkley Canyon – Upper Slope South

\*\* colour coding added to extid 1416 (DSO-1702)

\* pg 27 Clayoquot Slope - Bullseye

\*\* extid 685 labeled (DSO-1691)

\*\* duplicate RDI ADCP (DI: 12108) removed (DSO-1690)

\* pg 36 Endeavour Node

\*\* media converters added to boths ends of extid 398 (DSO-1006)

\*\* DIs (51240, 51300) & device names added to mud mats on extid 398 (DSO-1006)

Version: MarineNetworkConfig\_2024-09-20

(DSO-1823) Marine configuration diagram post-expedition update for 2024-09 Folger Pinnacle Maintenance

\* pg 59 - Folger Pinnacle IP

\*\* New UV system DI 88012 deployed on J5 of JB-01

Version: MarineNetworkConfig\_2024-09-20

(DSO-1822) Marine configuration diagram pre-expedition update for 2024-09 Folger Pinnacle Maintenance

\* pg 59 - Folger Pinnacle IP

\*\* New UV system DI 88012 to be deployed on J5 of JB-01 - EN-7518 and DSO-1625

Version: MarineNetworkConfig\_2024-09-19

(DSO-1736) Update marine config for pre-expedition 2024-10 CanPac cruise

\* pgs- 18 - Barkley Canyon – Upper Slope South

\*\* Camera recovery (full platform) DI 86492, 85392, 86232, 86252, 23077 - INSTR-2575

\* pg 19 - Barkley Canyon – Upper Slope South

\*\* Camera recovery (full platform) DI 86492, 85392, 86232, 86252, 23077

\* pg 25 - Clayoquot Slope Node

\*\* I added a red note: "There are plans to recover two ocean bottom pressure sensors (OBP-01 and OBP-06)

\*\* swapp JB-08 for JB-09

\* pg- 27 - Clayoquot Slope - Bullseye

\*\* Potential Recovery of 553m cable, CableID: 119 (103.EX.0010) - Expedition Planning Gsheet

\* pg- 29 - Clayoquot Slope – ODP 1364A

\*\* Recobvery of JB-08 DI 10110

\* pg- 30 - Clayoquot Slope – ODP 1364A (planned)

\*\* moved JB-09 DI 10102 from Small Obs diagram pg 57 over to this page

\* pg- 31 - Clayoquot Slope – ODP 1364A

\*\* marked instruments to be disconnected and moved to replacement JB-09

\* pg- 32 - Clayoquot Slope – ODP 1364A (planned)

\*\*Added JB-09 bulkhead, updated J8-J10 port voltages, and noted downstream instruments to deploy

\*\* Titan DI 24432 to be deployed on J1 from JB-09

\*\* RBR TiltMeter/APT DI 27179 to be deployed on J2 - EN-8118

\*\* The serial server/CORK to be deployed on J3 per jb-09-config.pdf in EN-8070

\*\* Hydrophone array to be deployed on J10

\* pg 33 - Autonomous Site - Clayoquot Deformation Front East (NCSZO)


\*\* Data Logger, RBR, Cervata DI 67640 replacing DI 67620 - EN-7812

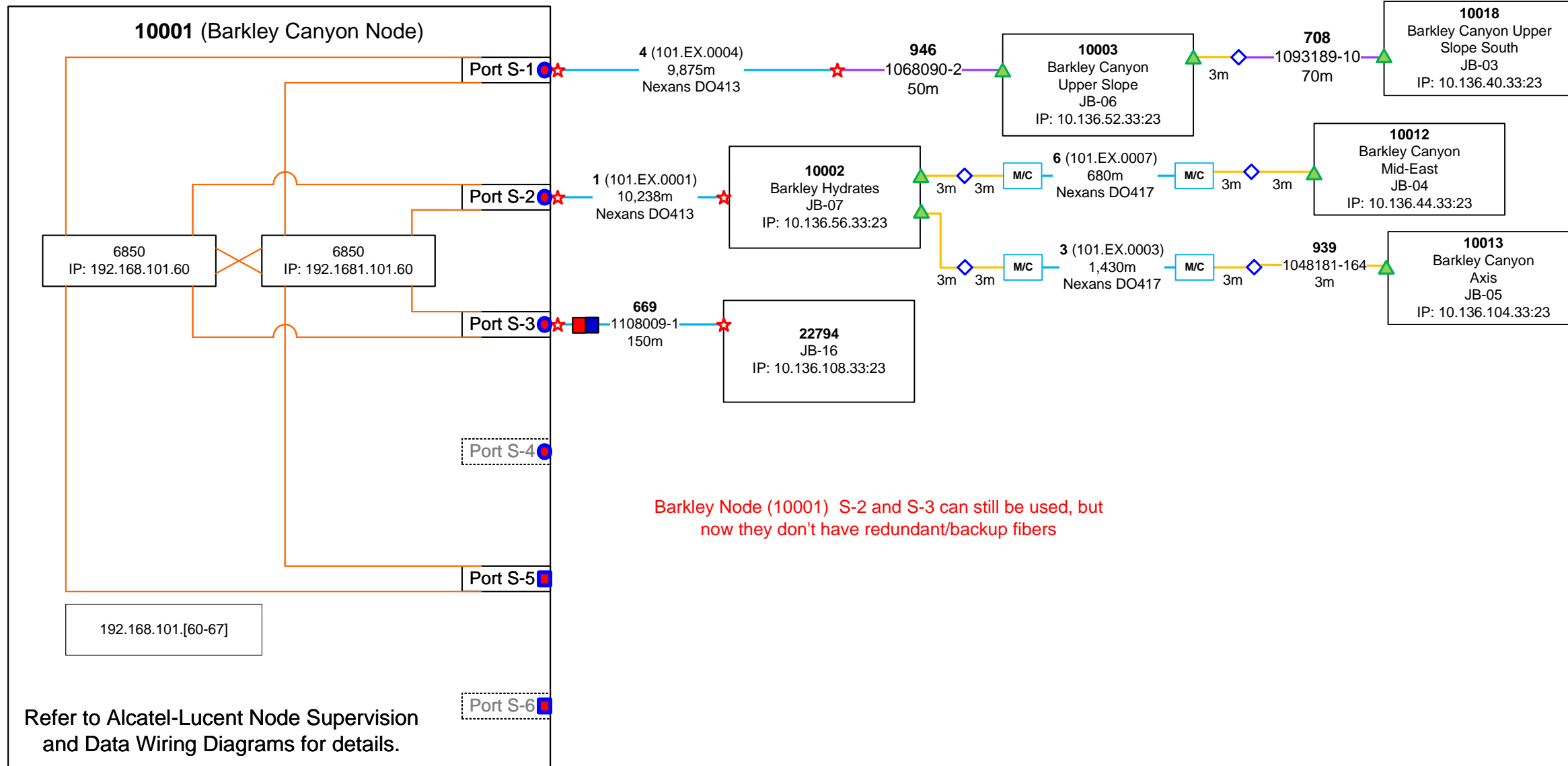
\* pg 35 - Autonomous Site - Clayoquot Deformation Front West (NCSZO)


\*\* Data Logger, RBR, Cervata, DI 67641 replacing DI 67600 - EN-7810

\* pg - 55 - Folger Deep IP

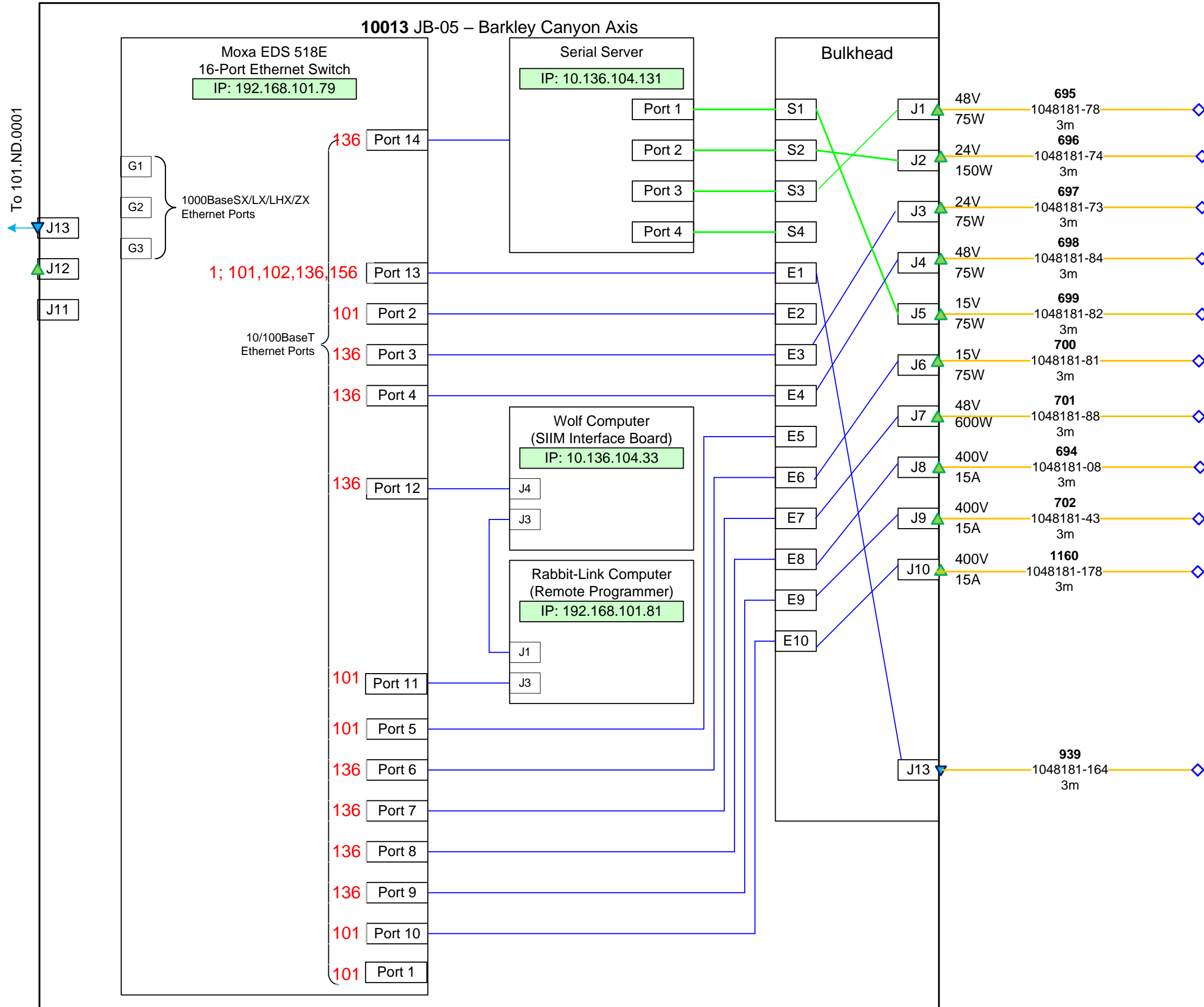
\*\* CTD swap DI 23355, 24004 for new CTD DI 23841, 23284, 63960 on J4 from JB-02 (for Optode; Oxygen - V0, Temp - V1)- EN-7398 , INSTR-2582, INSTR-2587

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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi	Page 4	

10013 JB-05 – Barkley Canyon Axis



Breaker Number to 'J' Number

Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

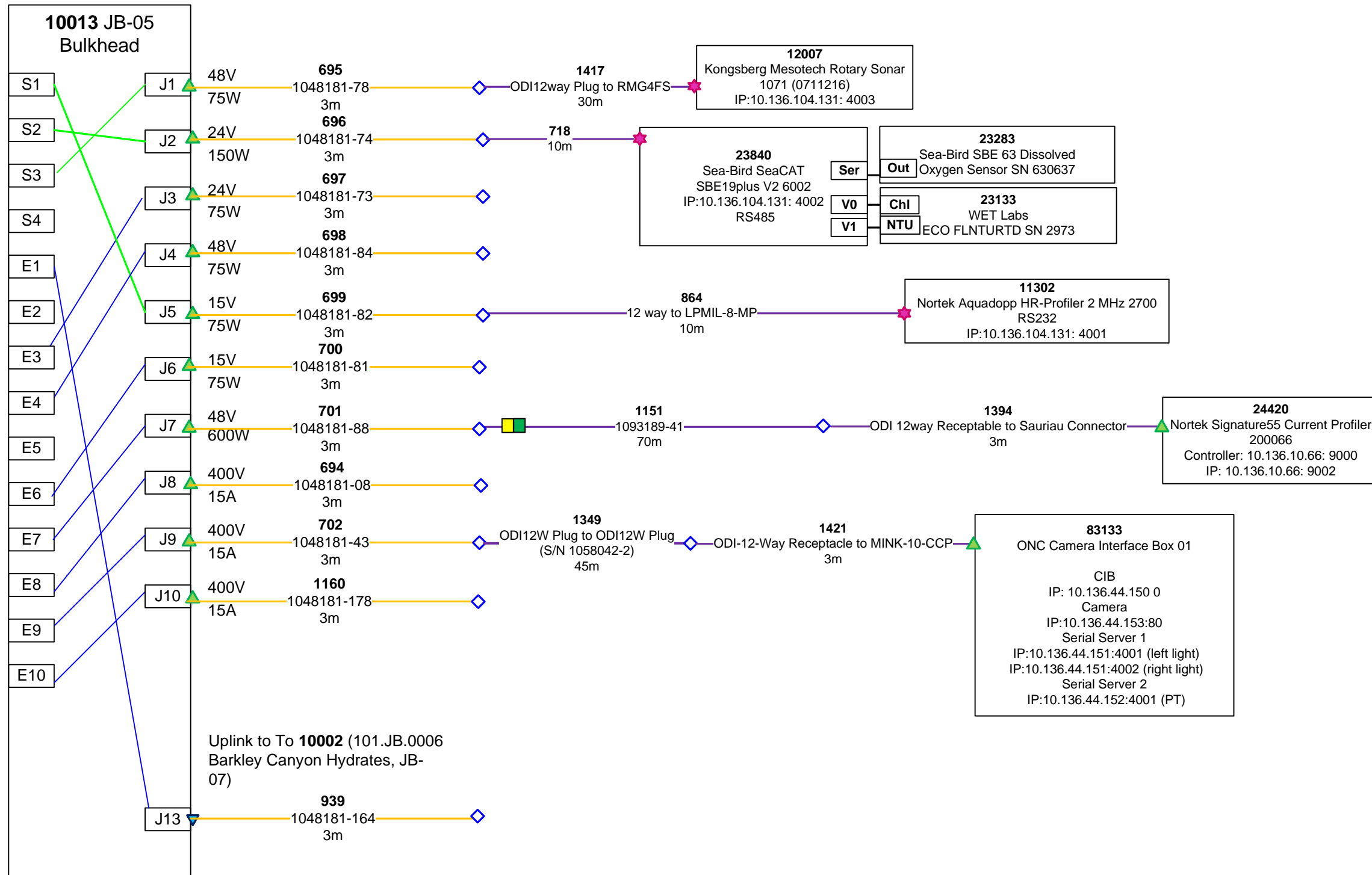
Junction Box Future Planning


Port Number	Date	Description
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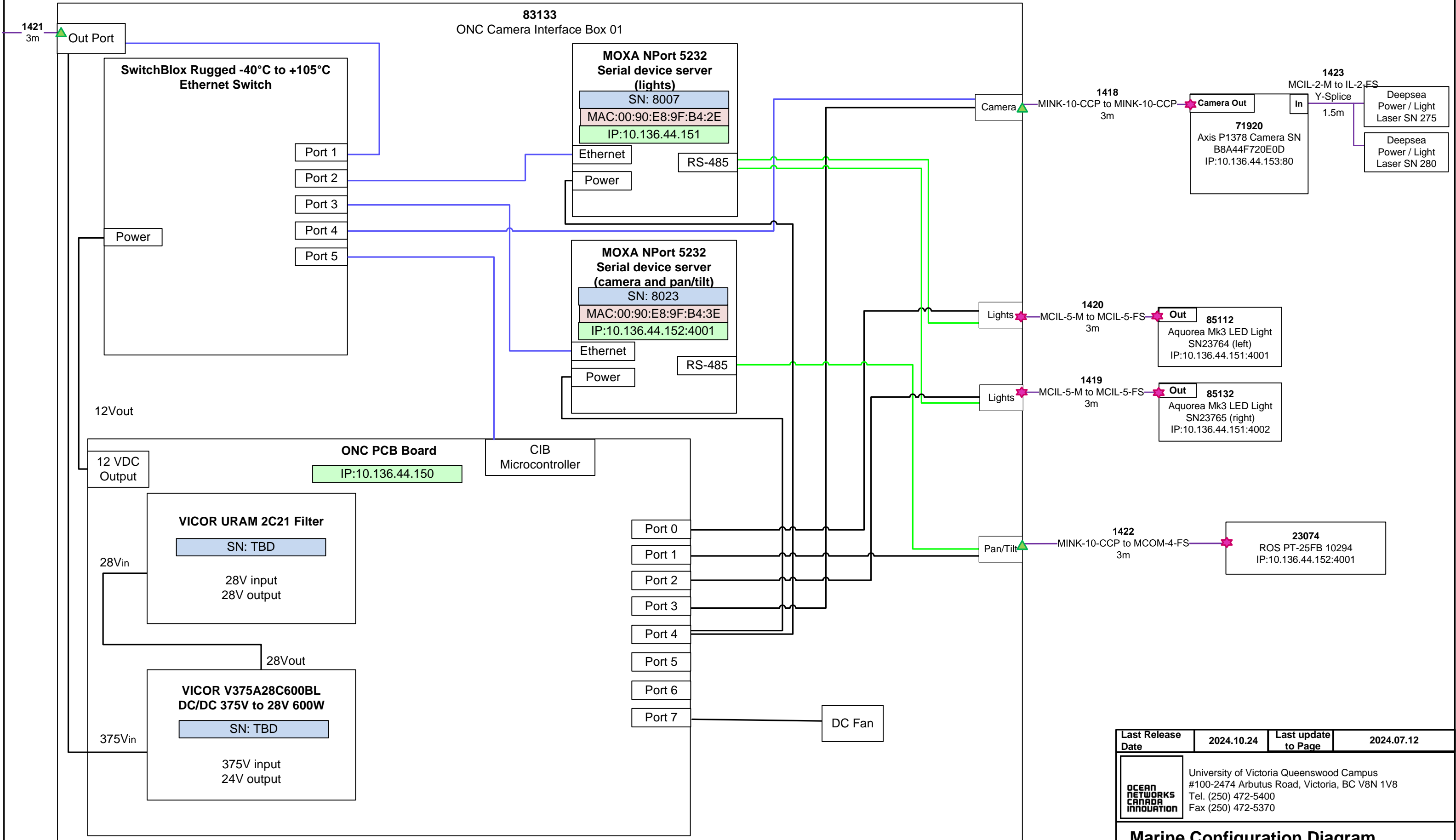
Last Release Date	2024.10.24	Last update to Page	2024.07.03
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Marine Configuration Diagram

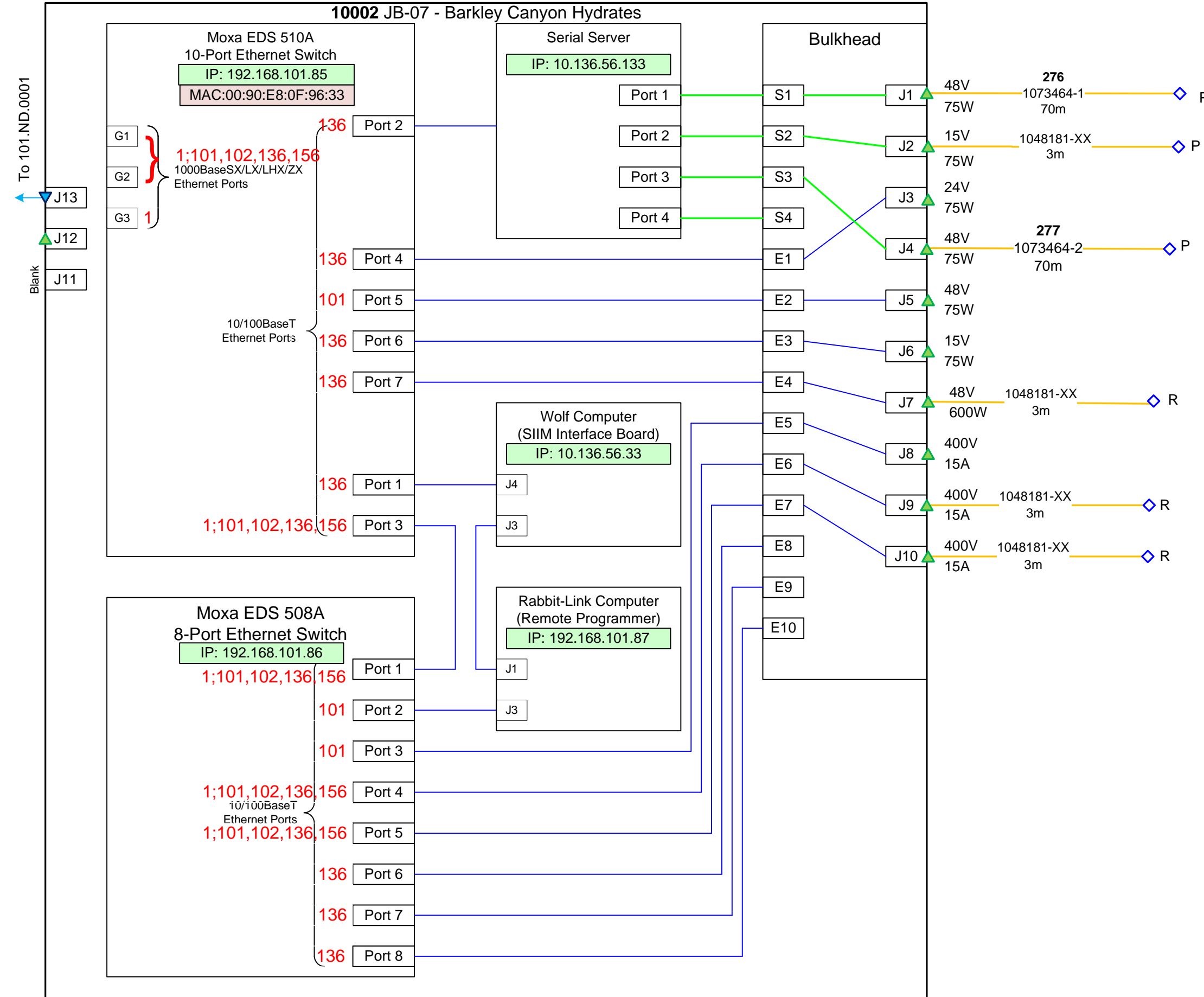


Last Release Date	2024.10.24	Last update to Page	2024.07.12
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Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

**Junction Box Future Planning**

Port Number	Date	Description

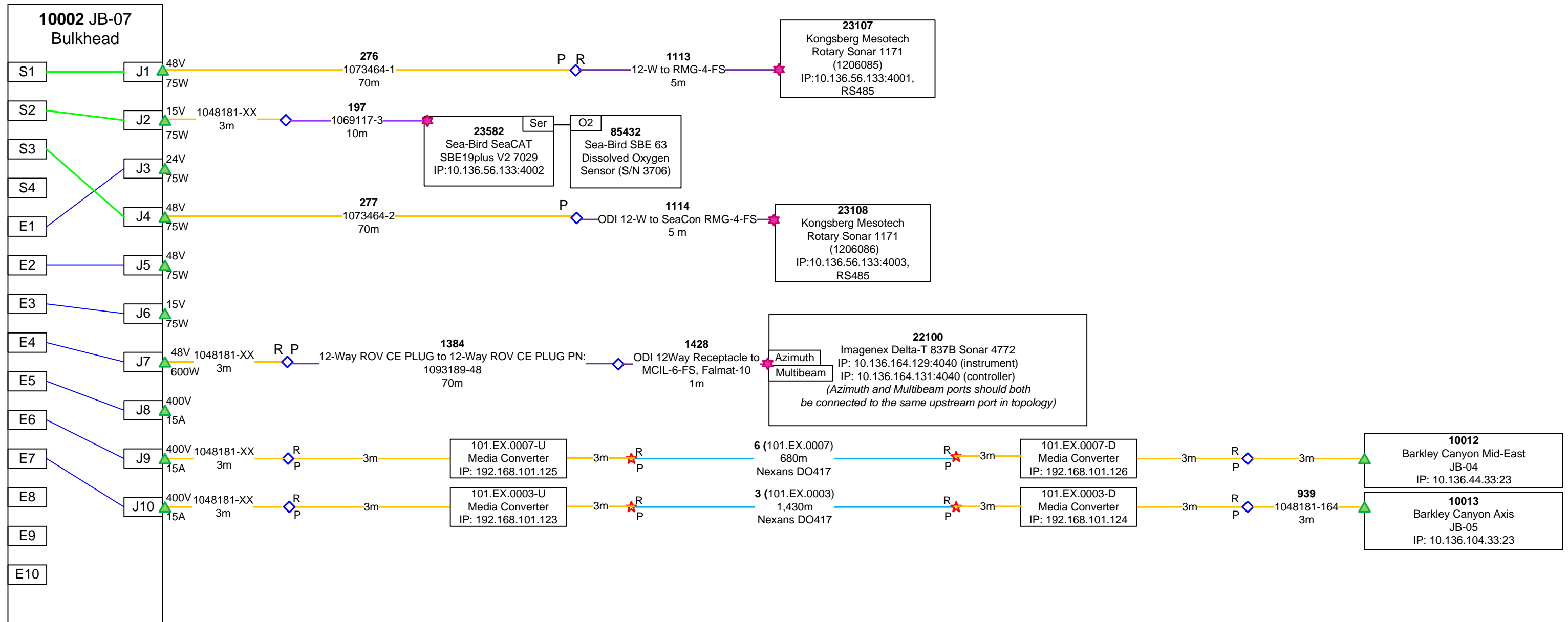
Last Release Date	2024.10.24	Last update to Page	2021.03.18
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**Marine Configuration Diagram**

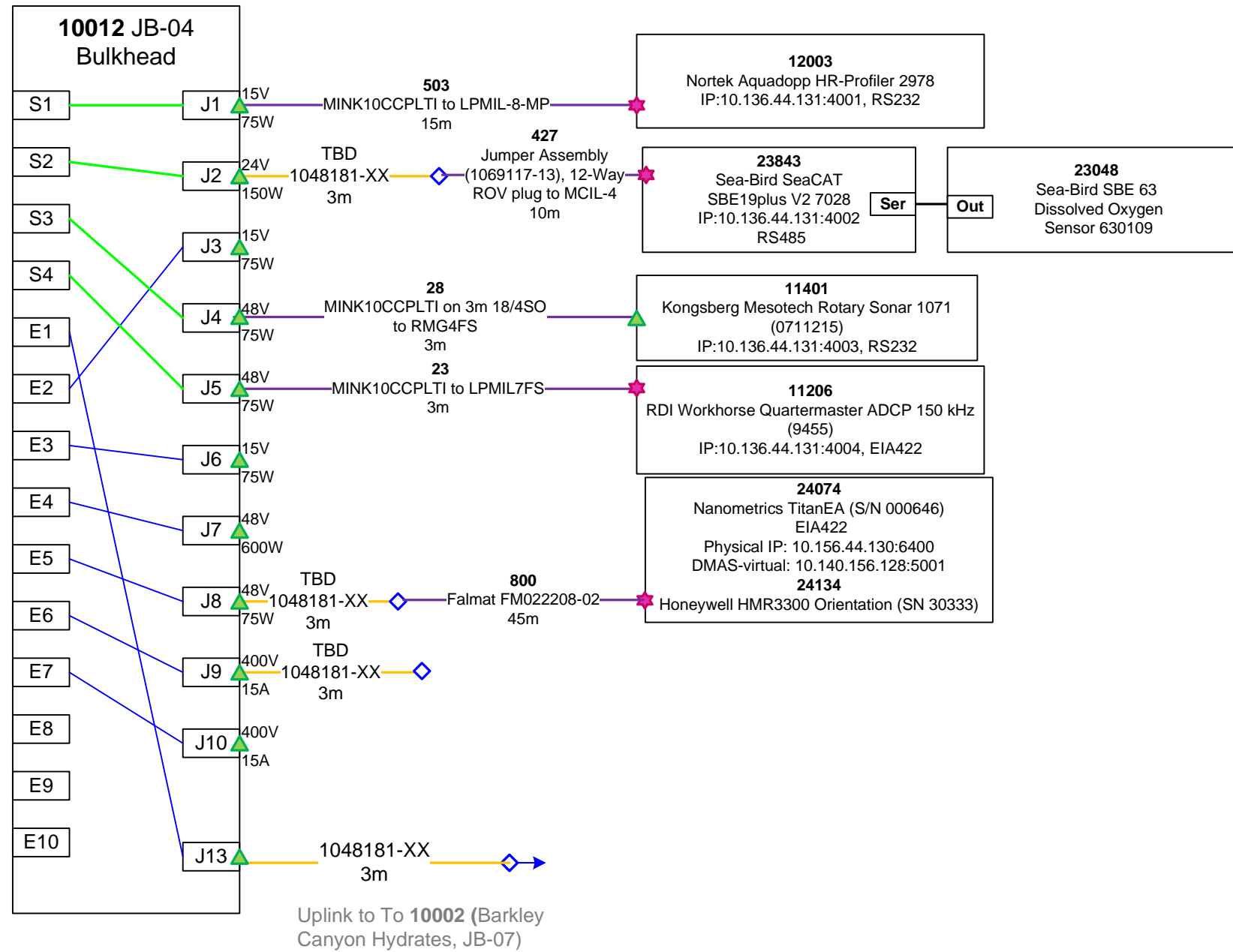
Updated by	Bahar Torabi	Page 8
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Last Release Date	2024.10.24	Last update to Page	2024.07.12
 University of Victoria Queenswood Campus #100-2474 Arbutus Road, Victoria, BC V8N 1V8 Tel. (250) 472-5400 Fax (250) 472-5370	<b>Marine Configuration Diagram</b>		
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To 102.ND.0001 SP3

22794 [ (Serial Number JB-16)]

Moxa EDS 518A  
16-Port Ethernet Switch  
IP: 192.168.101.212

1; 101,102,136,156  
1000BaseSX/LX/LHX/ZX  
Ethernet Ports

- 136 Port 1
- 156 Port 2
- 101 Port 3
- 101 Port 4
- 136 Port 5
- 136 Port 6
- 136 Port 7
- 156 Port 8
- 156 Port 9
- 101 Port 10
- 136 Port 11 n/c
- 101 Port 12
- 101 Port 13
- 136 Port 14
- 136 Port 15
- 101 Port 16

Serial Server  
IP: 10.136.108.131

Port 1  
Port 2  
...  
Port 7  
Port 8 n/c

J4

Communications  
Selection Board

- E1 J1 48V TBD 1.6A 1048181-24 3m R
- E2 J2 15V 845 1.6A 1048181-130 3m R
- S3 J3 15V TBD 1.6A 1048181-XX 3m R
- S4 J4 48V 956 1.6A 1048181-26 3m R
- E5 J5 48V 271 1.6A 1048181-64 3m R
- E6 J6 15V TBD 1.6A 1048181-XX 3m R
- E7 J7 48V TBD 8.3A 1048181-56 3m R
- E8 J8 400V 941 5A 1048181-166 3m R
- E9 J9 400V 859 5A 1048181-129 3m R
- E10 J10 400V TBD 15A 1048181-XX 3m R

PPS Server  
IP: 192.168.101.215

J201

CAN Bridge  
IP: 192.168.101.213

ETH

Rabbit-Link Computer  
(Remote Programmer)  
IP: 192.168.101.214

PWR J3  
J1

Wolf Computer  
(SIIM Interface Board)  
IP: 10.136.108.33

J4 J3

J13 TBD 1048181-XX 3m R  
Uplink to Endeavour Node  
(102.ND.0001)

Junction Box Future Planning

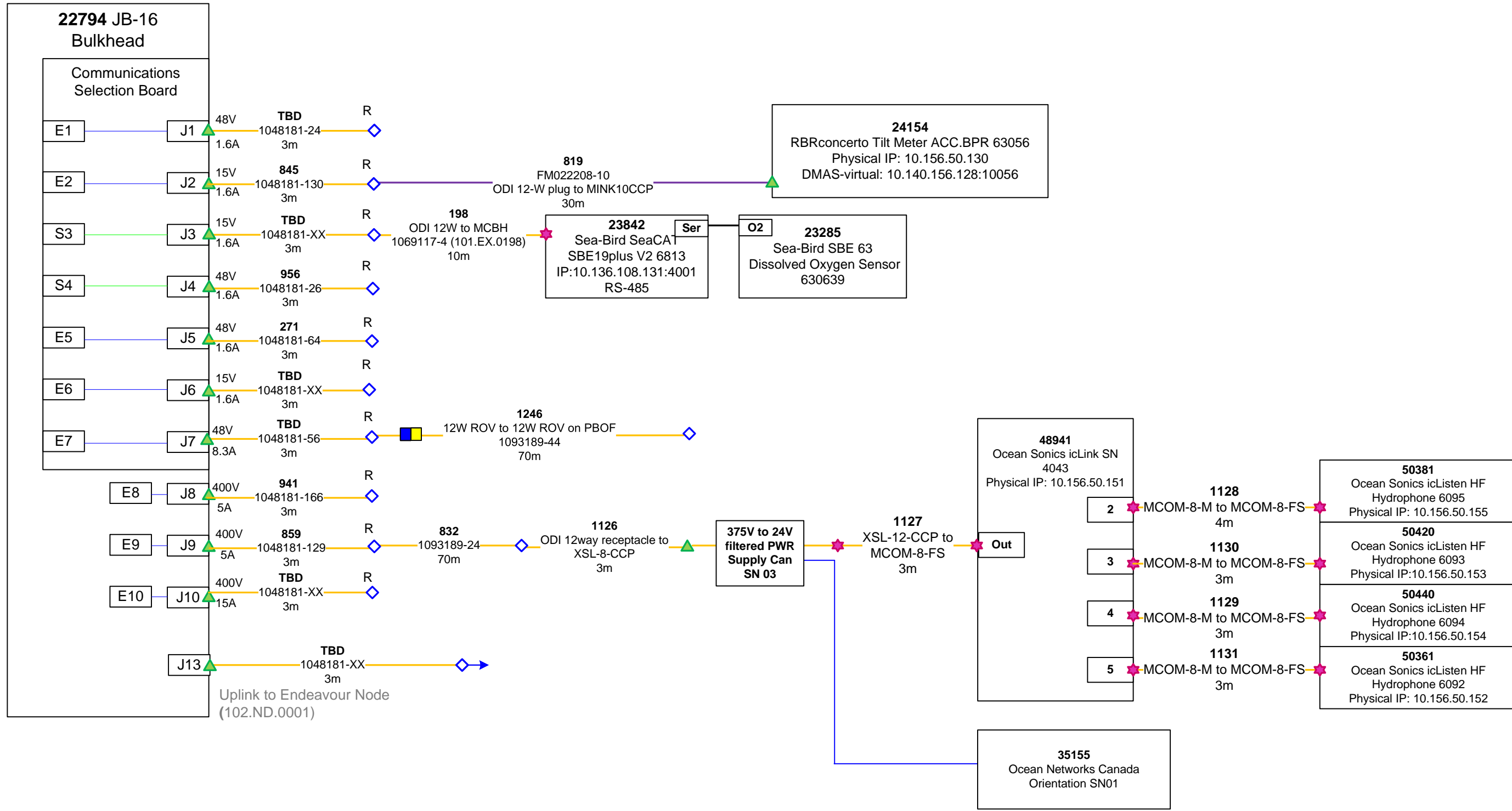
Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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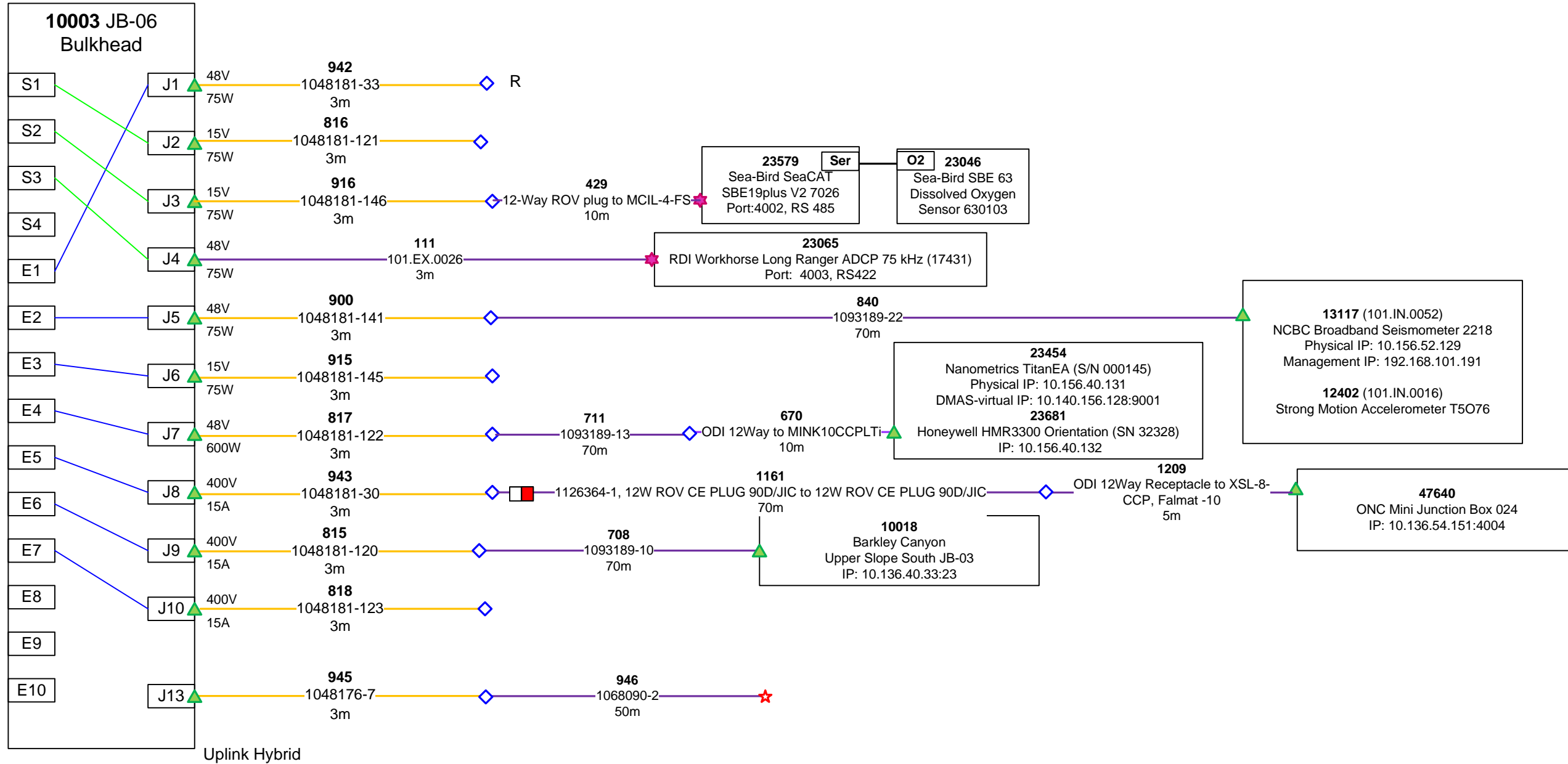
Marine Configuration Diagram

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	<b>Marine Configuration Diagram</b>		
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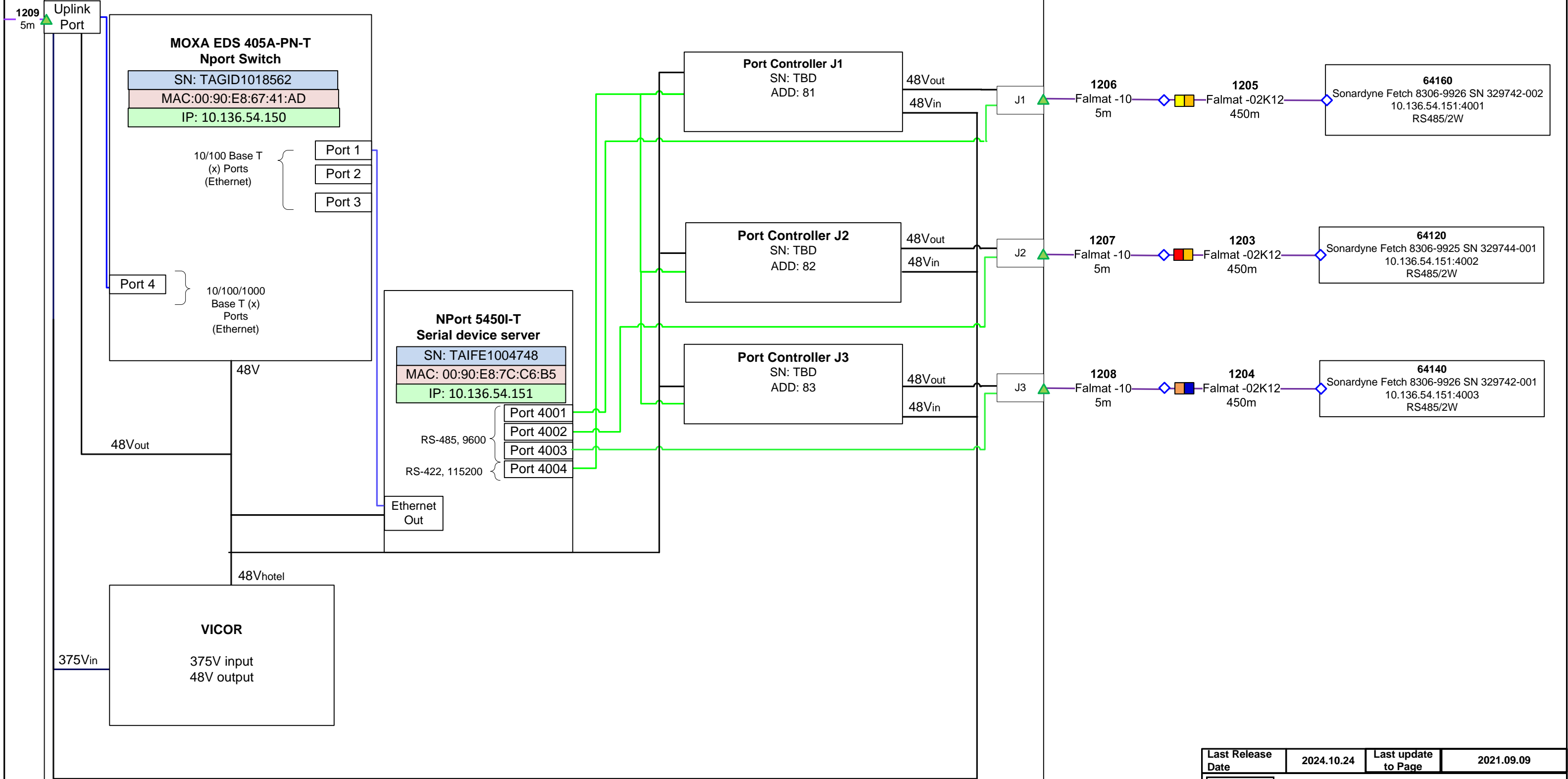





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	<b>Marine Configuration Diagram</b>		
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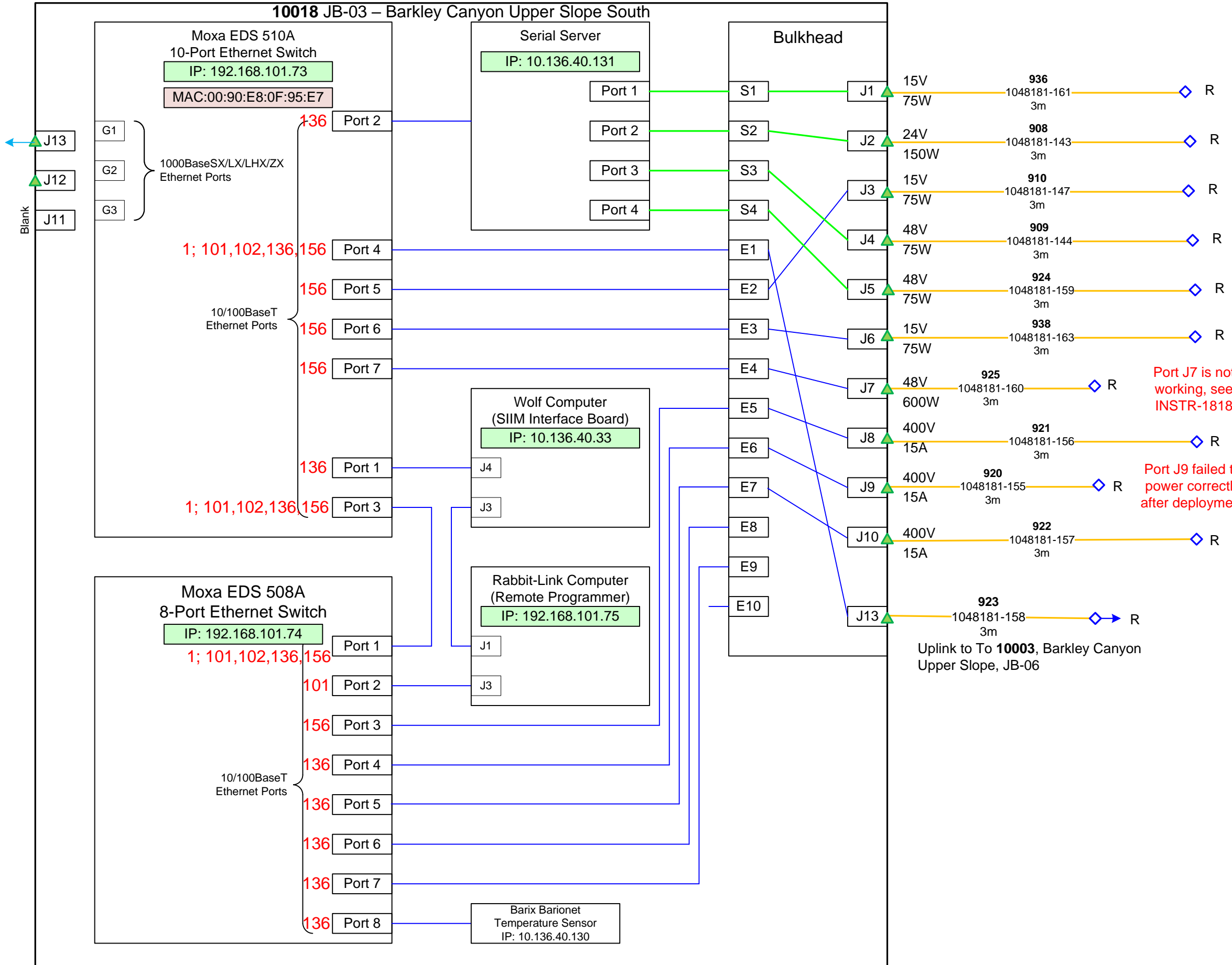


**47640**  
ONC Mini Junction Box 024



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10018 JB-03 – Barkley Canyon Upper Slope South



Breaker Number to 'J' Number

Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

Junction Box Future Planning

Port Number	Date	Description

Port J7 is not working, see INSTR-1818

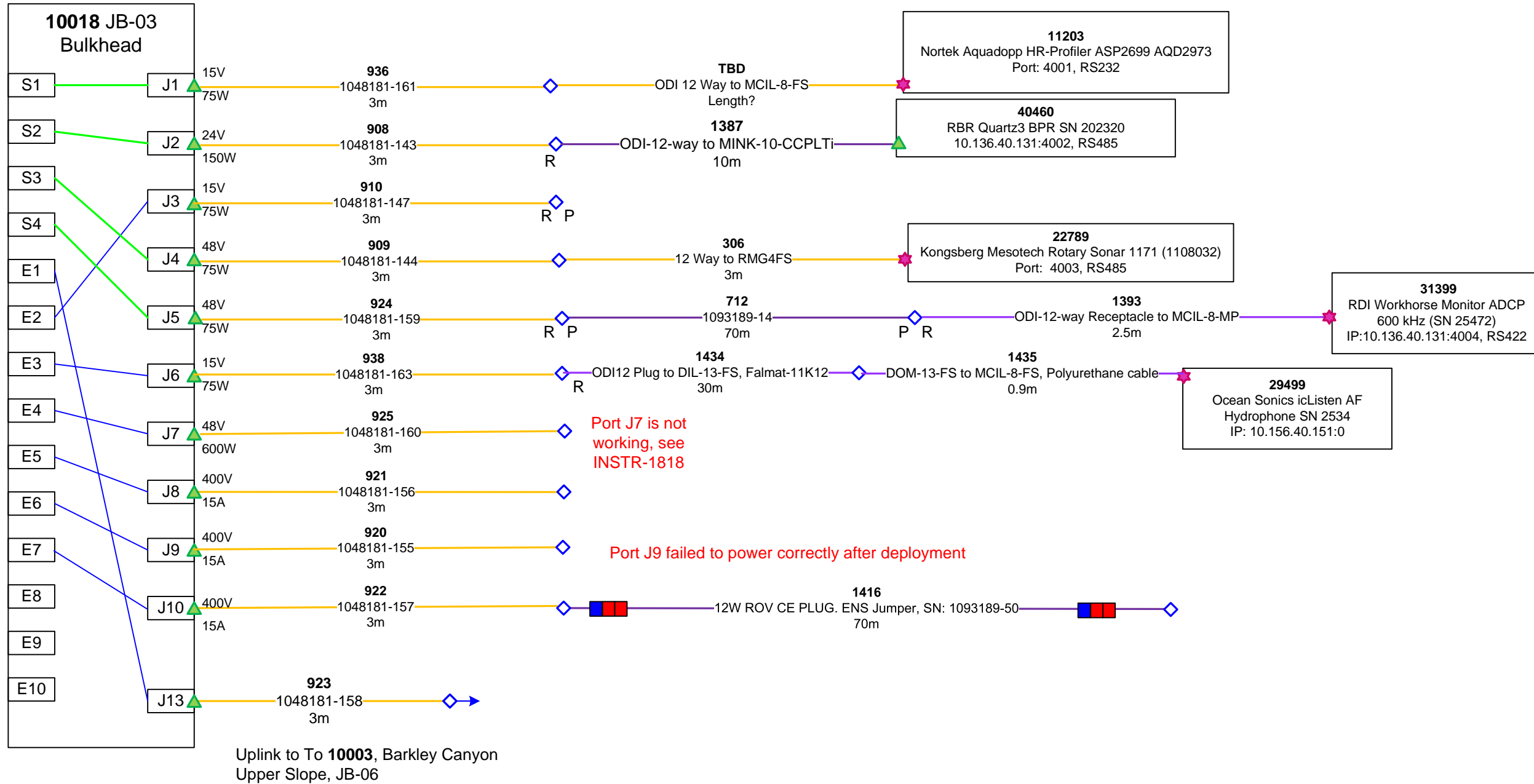
Port J9 failed to power correctly after deployment


Uplink to To 10003, Barkley Canyon Upper Slope, JB-06

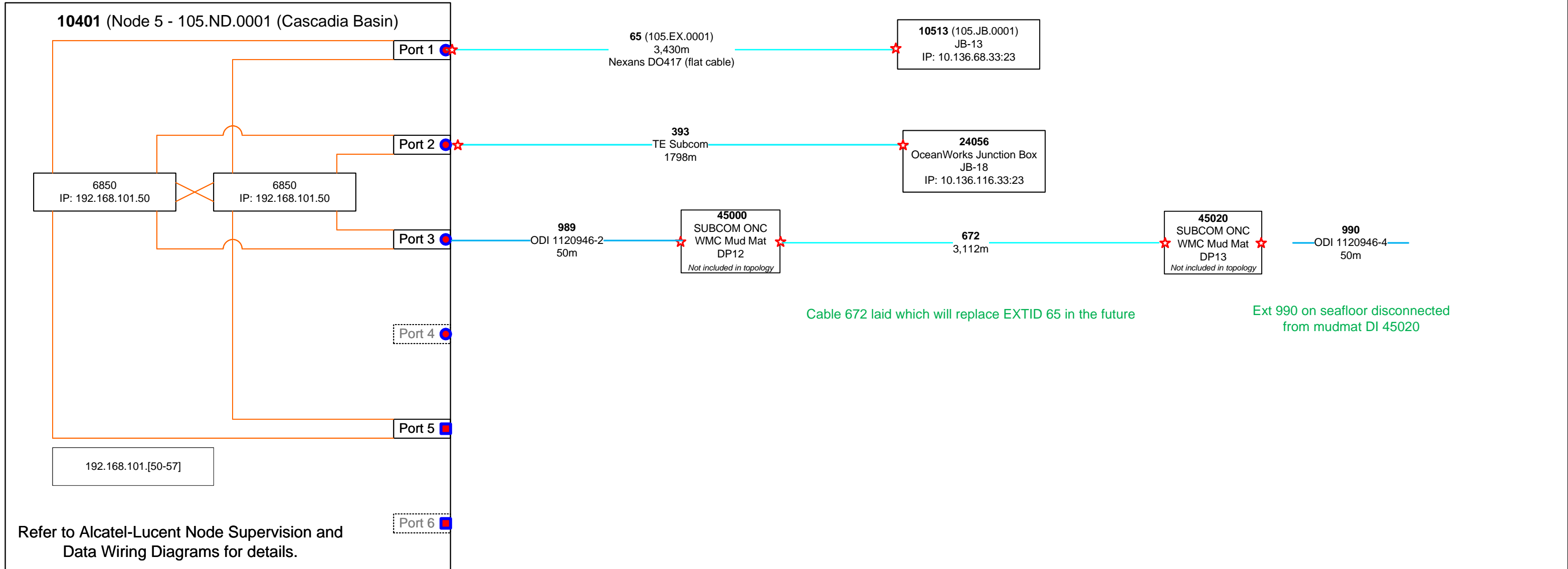
Last Release Date	2024.10.24	Last update to Page	2024.07.03
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Marine Configuration Diagram



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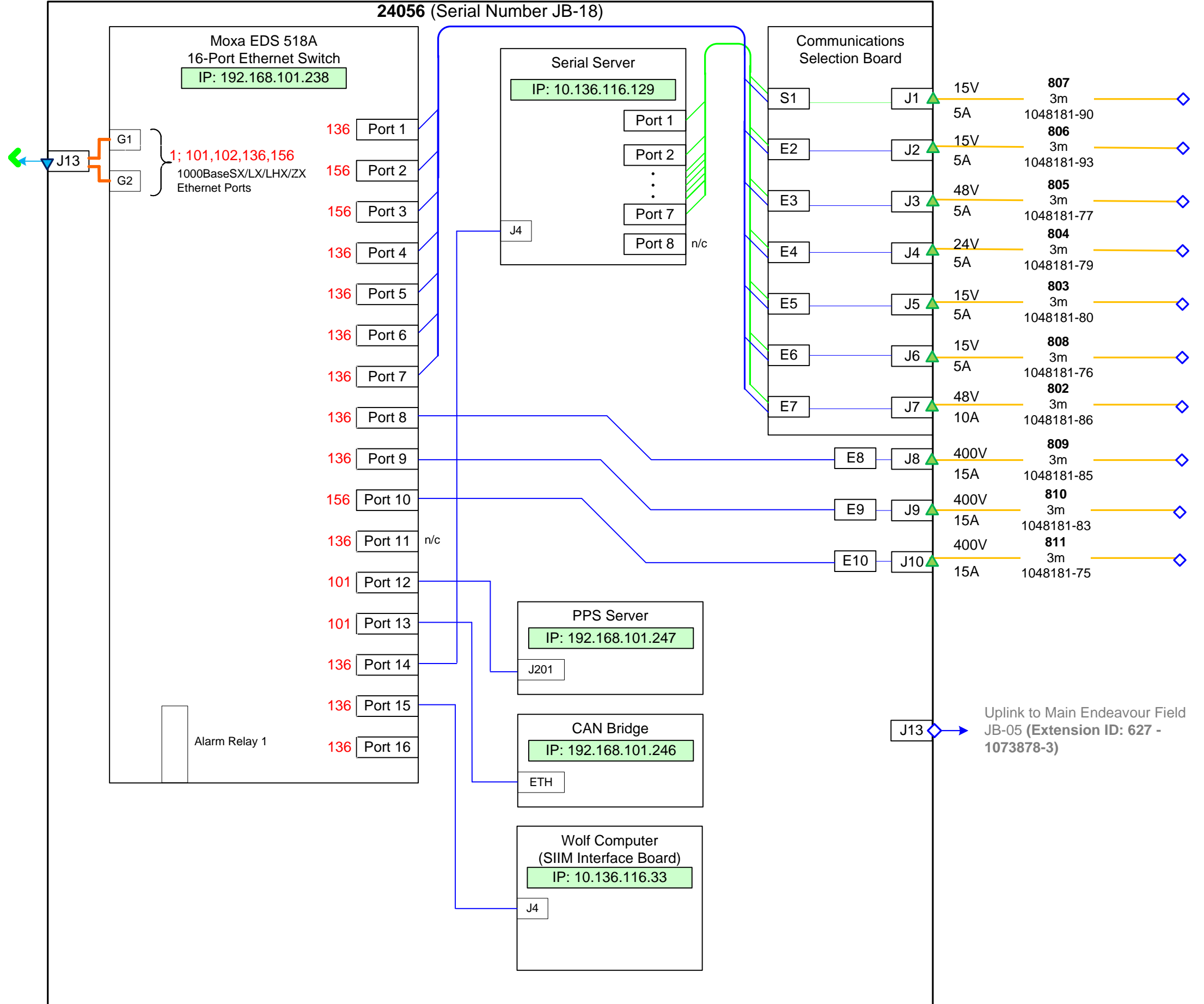
Last Release Date	2024.10.24	Last update to Page	2024.07.12
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**Marine Configuration Diagram**

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24056 (Serial Number JB-18)



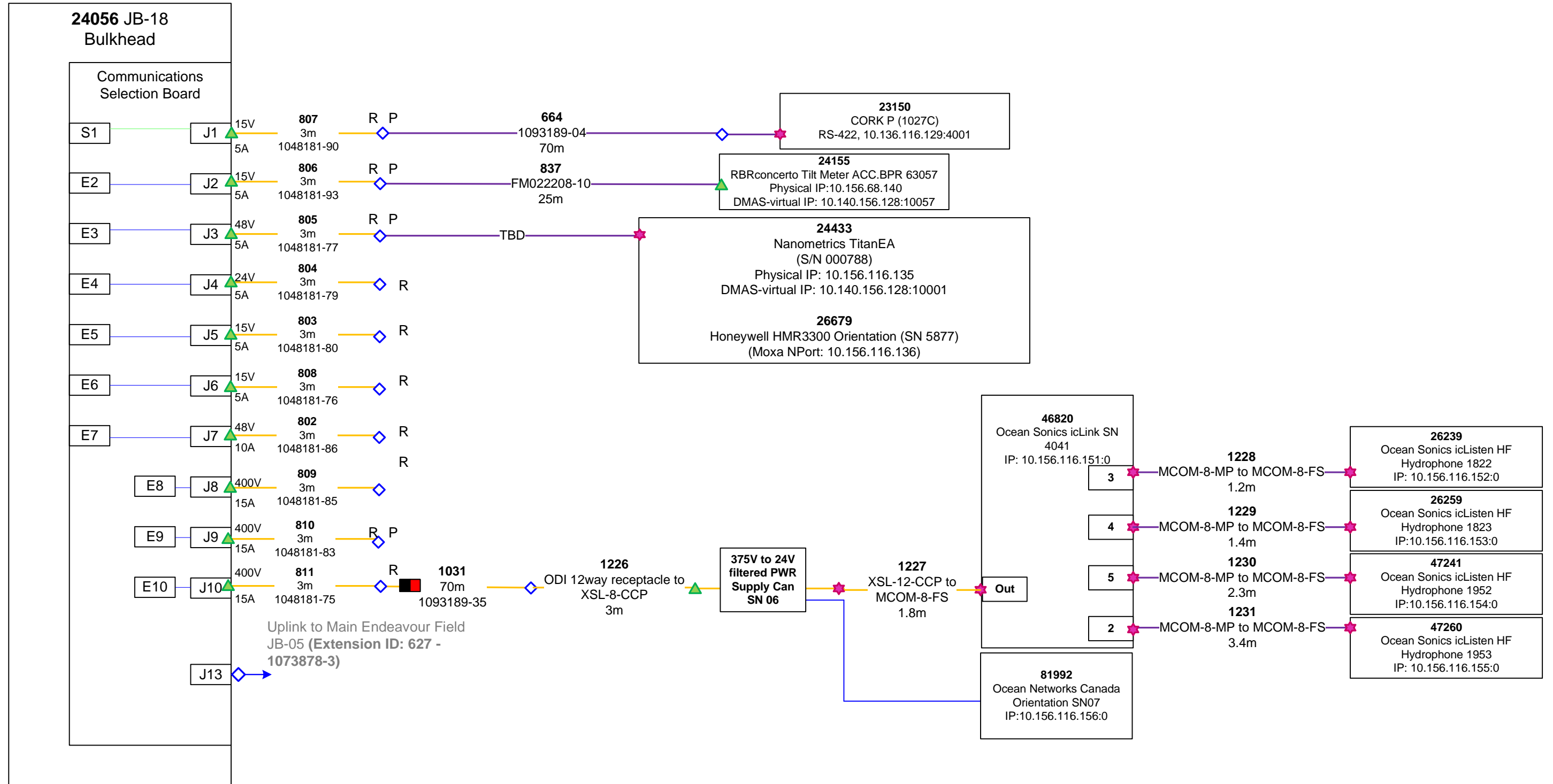
**Junction Box Future Planning**

Port Number	Date	Description

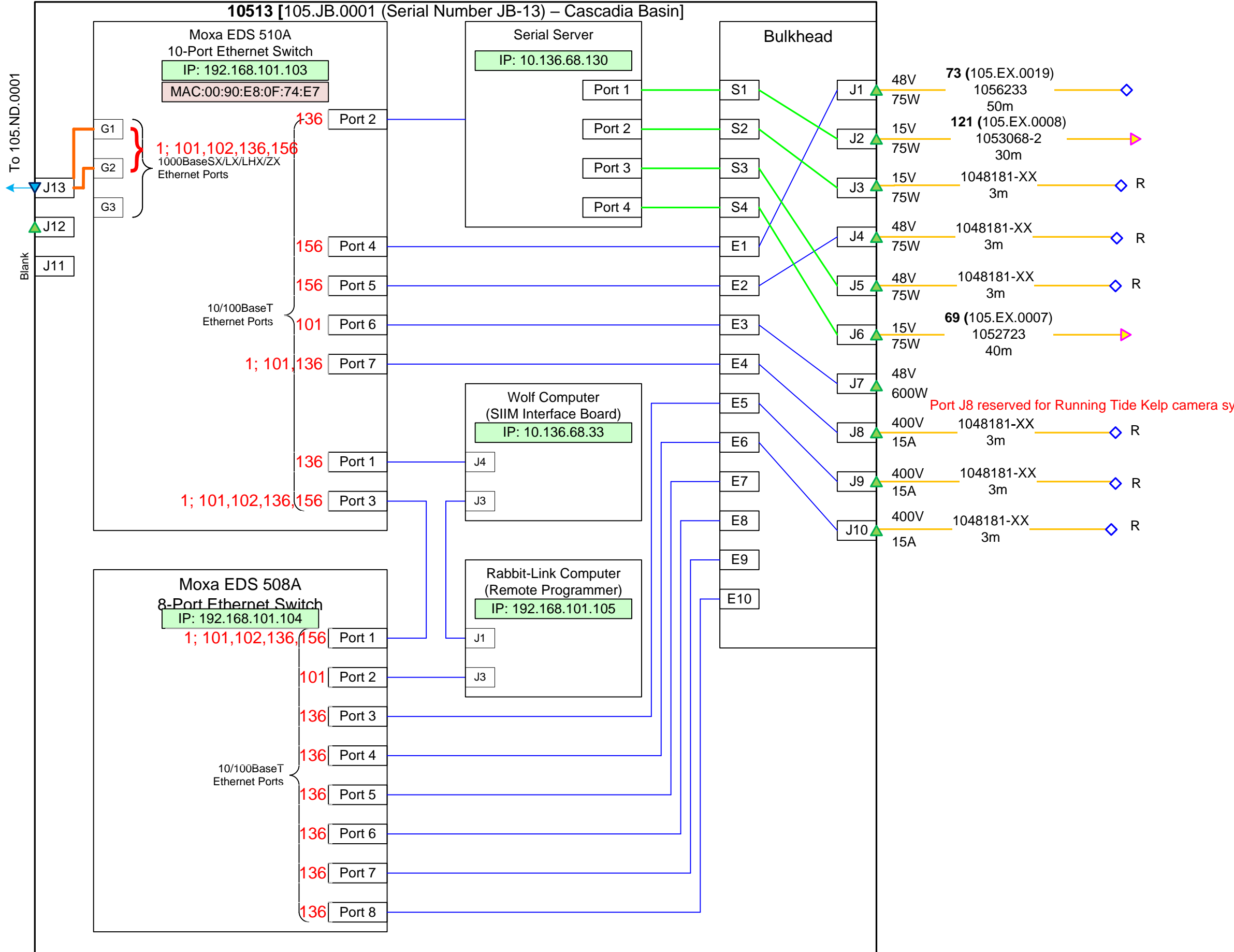
Last Release Date	2024.10.24	Last update to Page	2024.07.03
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**Marine Configuration Diagram**



10513 [105.JB.0001 (Serial Number JB-13) – Cascadia Basin]



Breaker Number to 'J' Number

Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

Junction Box Future Planning

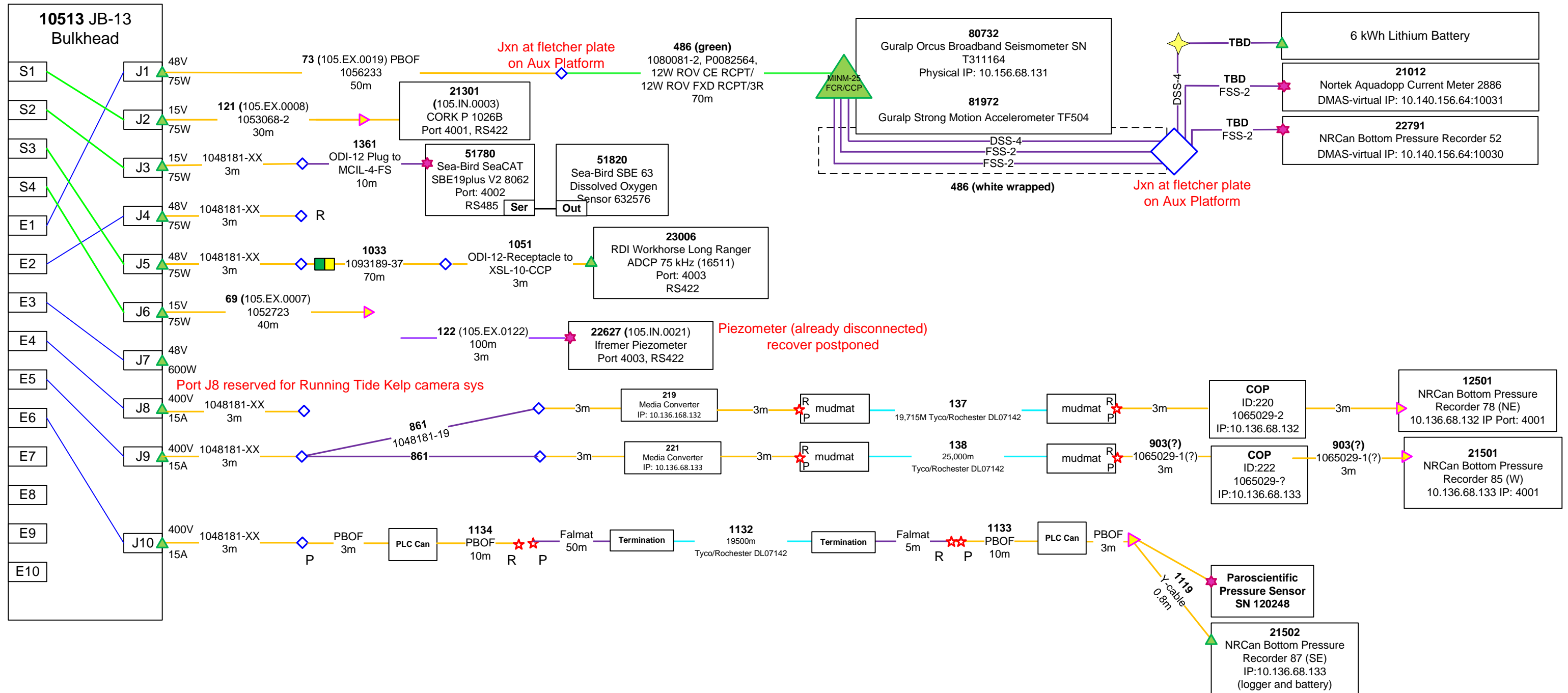
Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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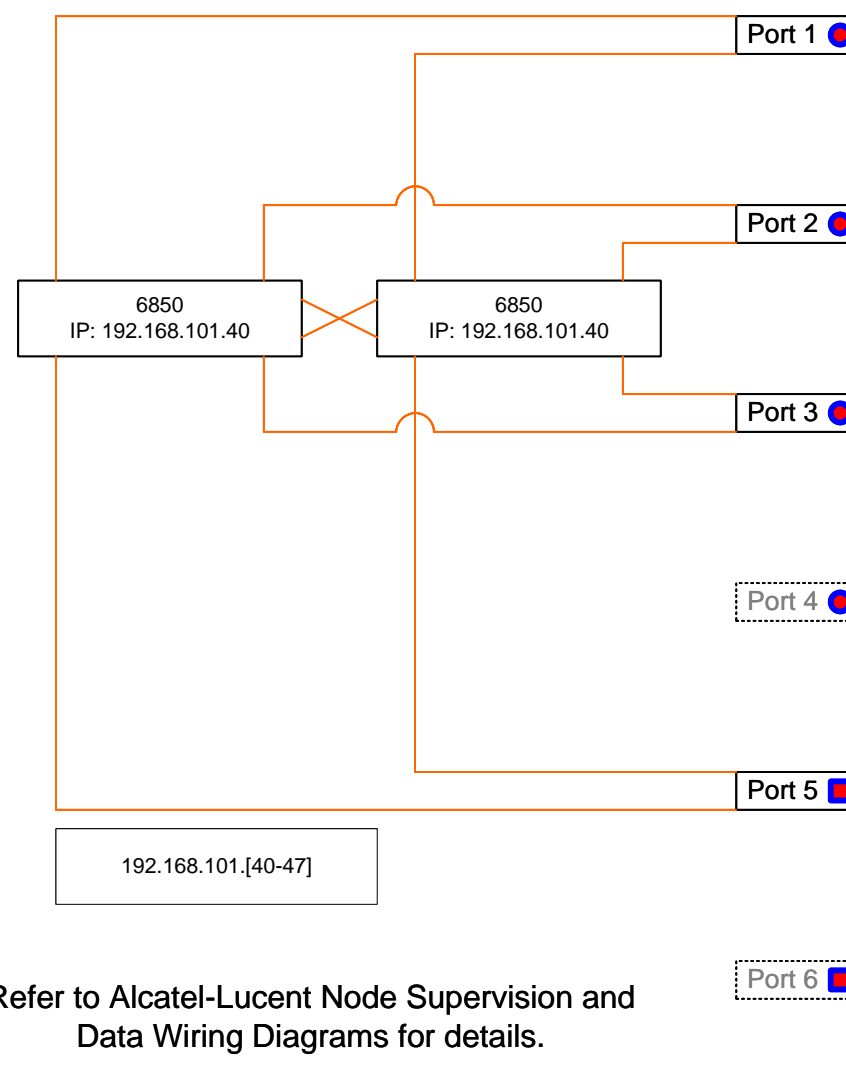
Marine Configuration Diagram





Last Release Date	2024.10.24	Last update to Page	2023.12.01
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**10201 (Node 2 - 103.ND.0001) (Clayoquot Slope)**



**56 (103.EX.0001)**  
580m  
Nexans DO417


**717**  
1094158-3  
70m

**547**  
3122m  
TE Subcom  
DCCLWA

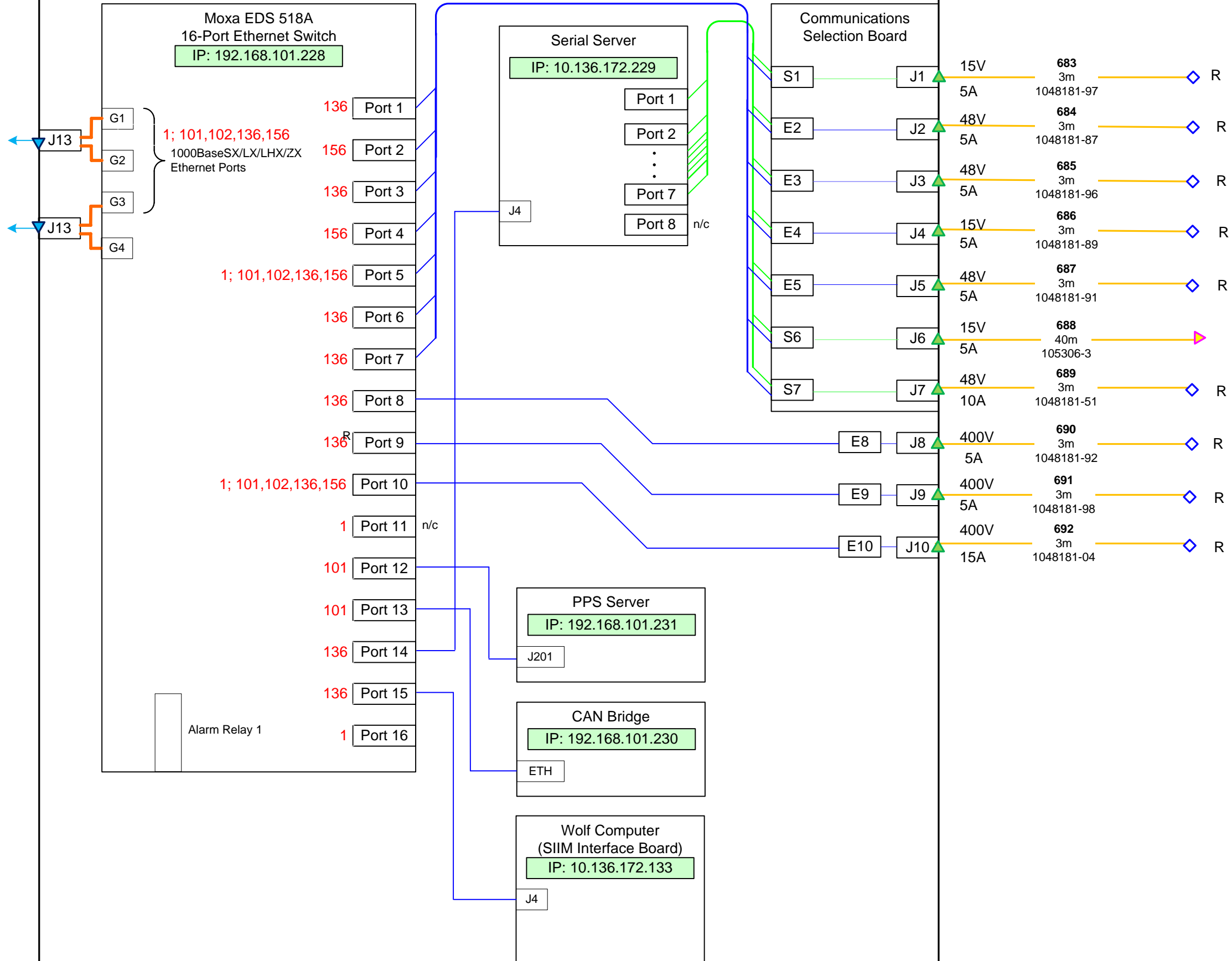
**391**  
580m  
Southbay Cable  
SB-47958

**24076**  
OceanWorks Junction Box JB-19  
IP: 10.136.172.133:23

**10110 (102.JB.0001)**  
OceanWorks Junction Box JB-08  
IP: 10.136.164.33:23

Last Release Date	2024.10.24	Last update to Page	2024.10.23
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	<p align="center"><b>Marine Configuration Diagram</b></p>		
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24076 [ (Serial Number JB-19) – Clayoquot Slope]



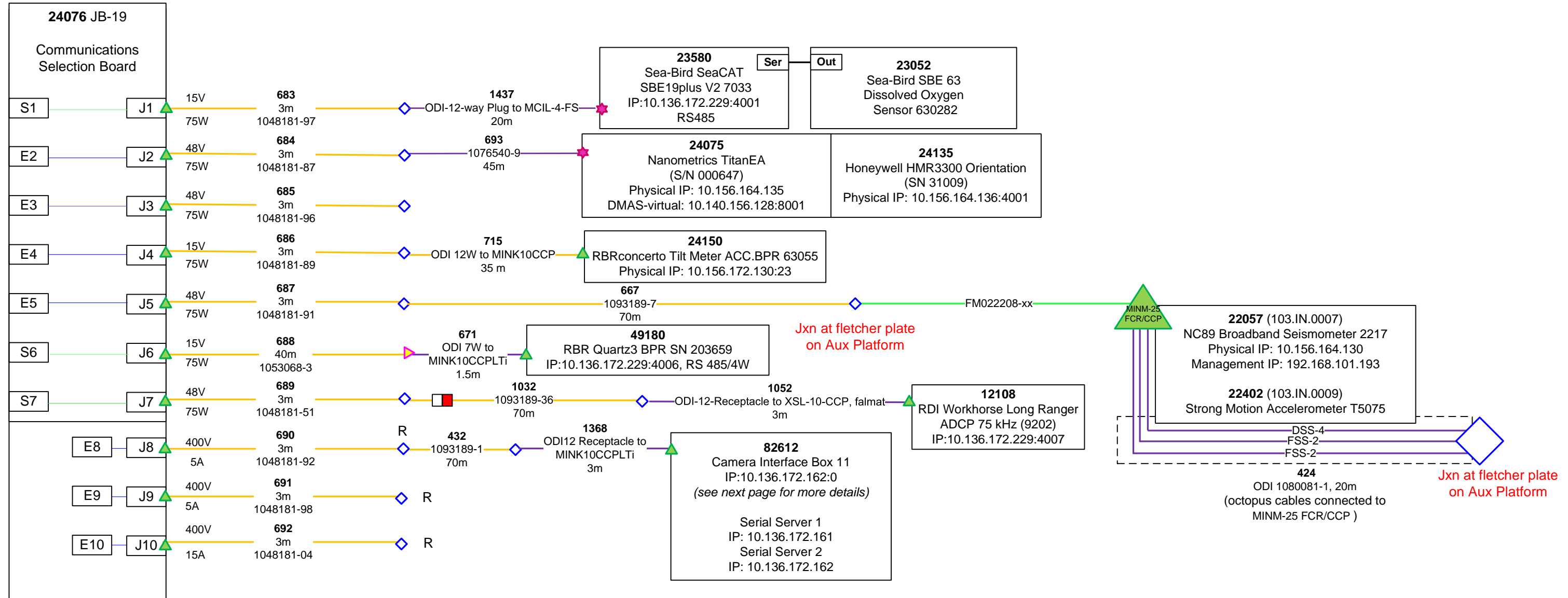
Junction Box Future Planning

Port Number	Date	Description

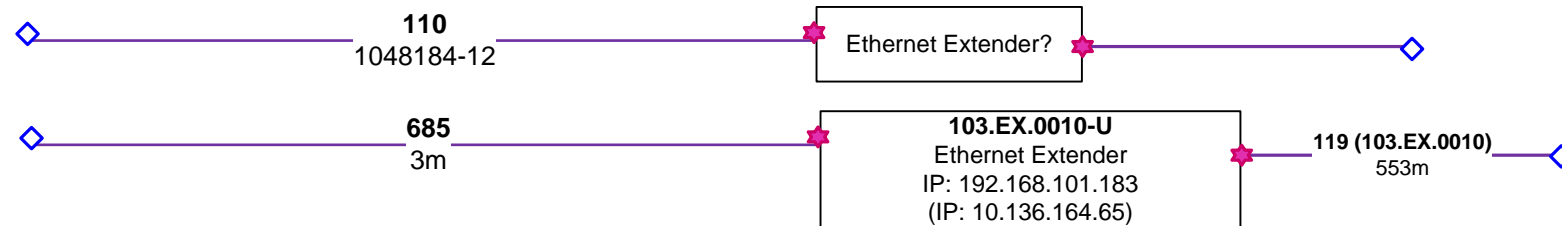
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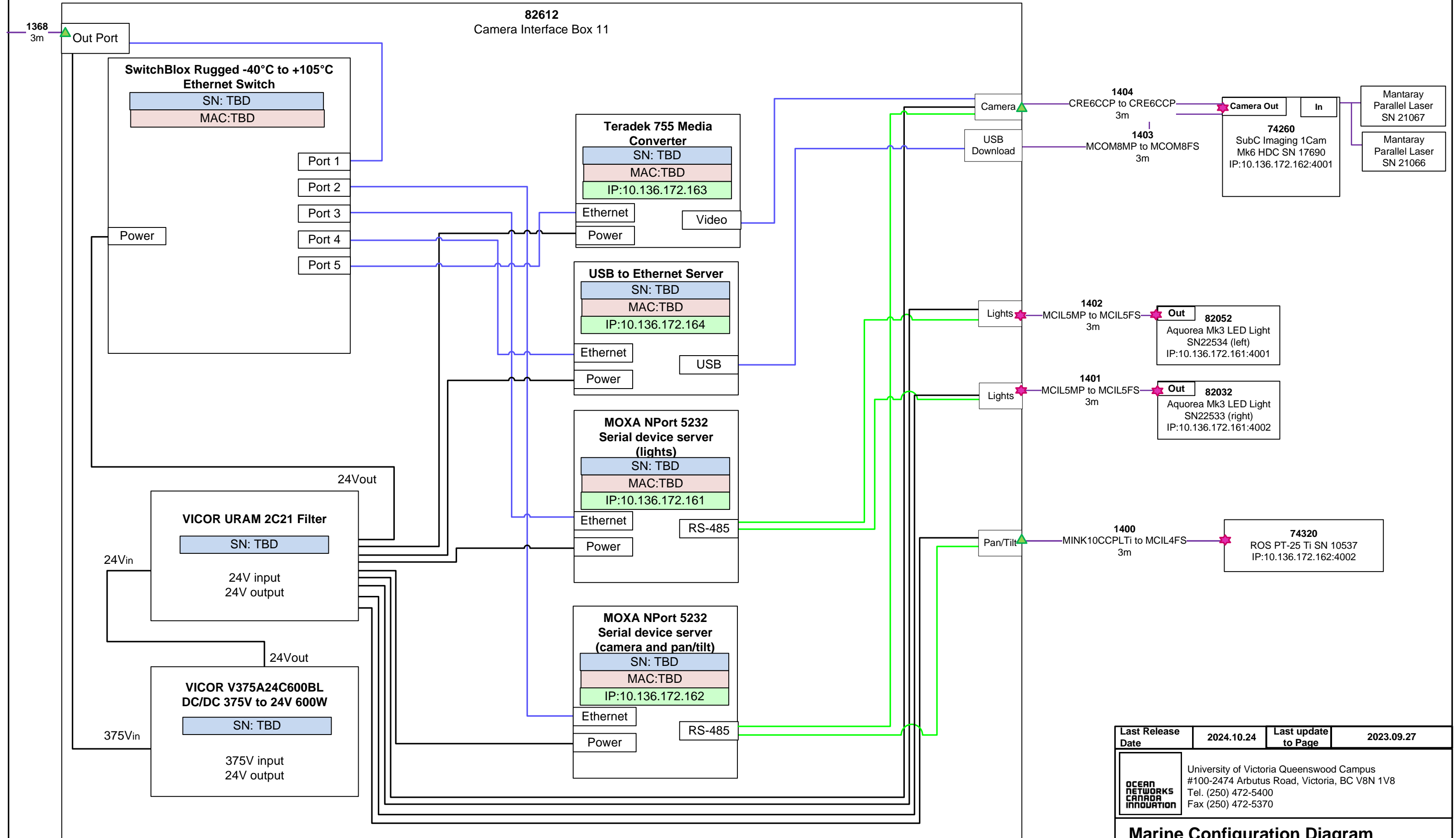
Marine Configuration Diagram




Old Imagenex cables Disconnected and left on seafloor. Location of extId 110 is unknown

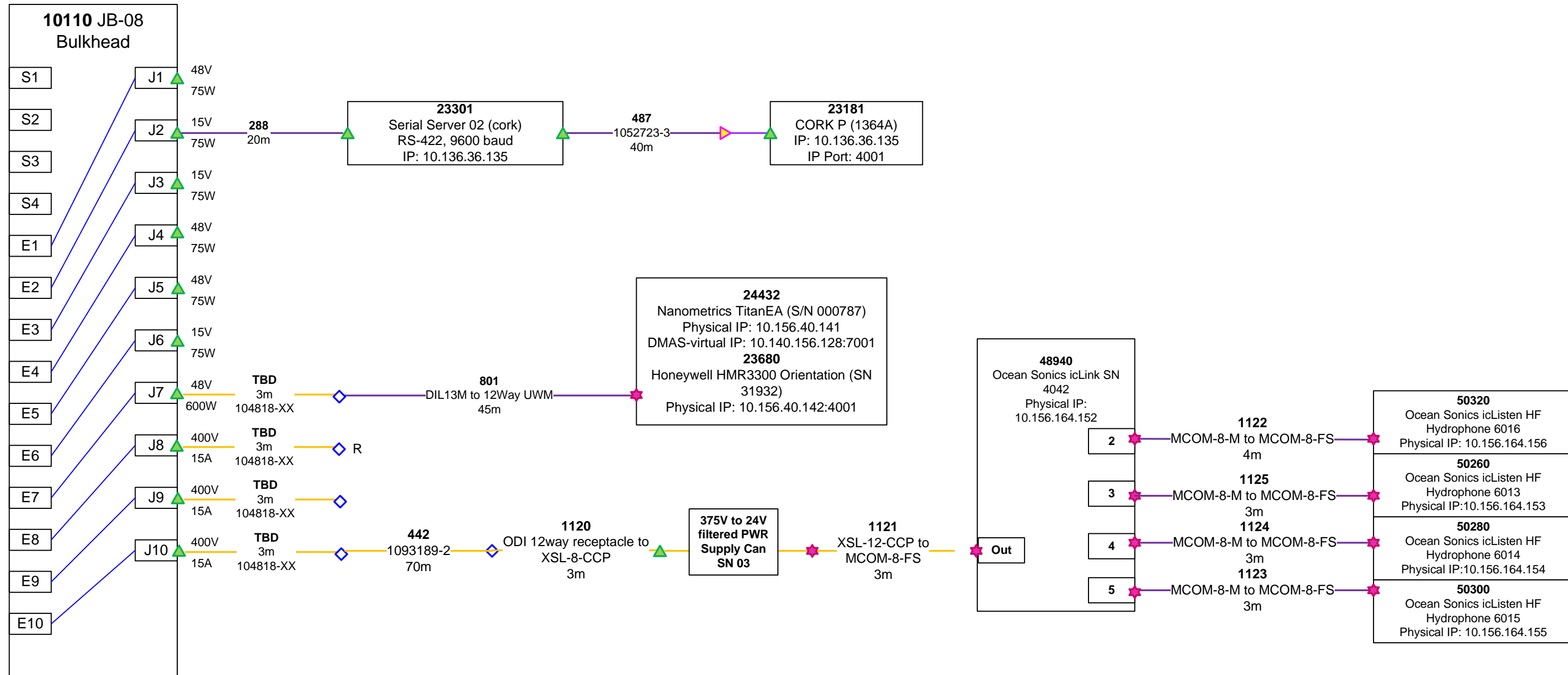



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	<b>Marine Configuration Diagram</b>		
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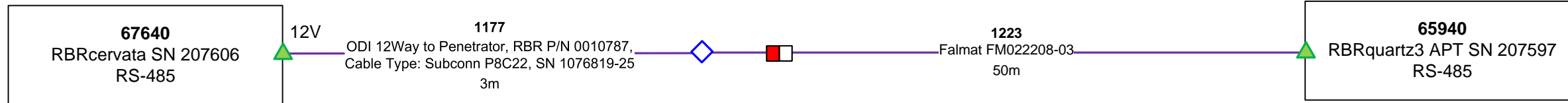
Last Release Date	2024.10.24	Last update to Page	2023.09.27
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	<b>Marine Configuration Diagram</b>		
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Last Release Date	2024.10.24	Last update to Page	2024.10.23
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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi	Page 29	

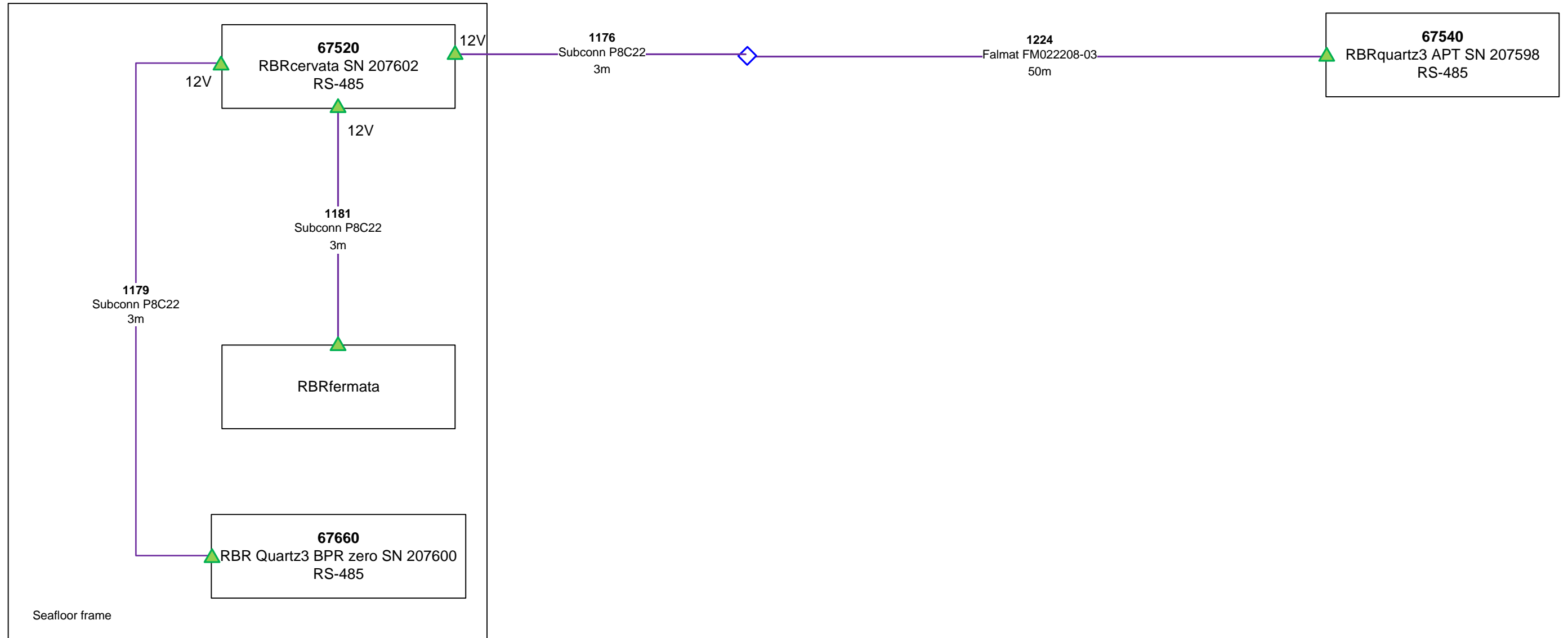





Last Release Date	2024.10.24	Last update to Page	2024.10.23
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**Marine Configuration Diagram**



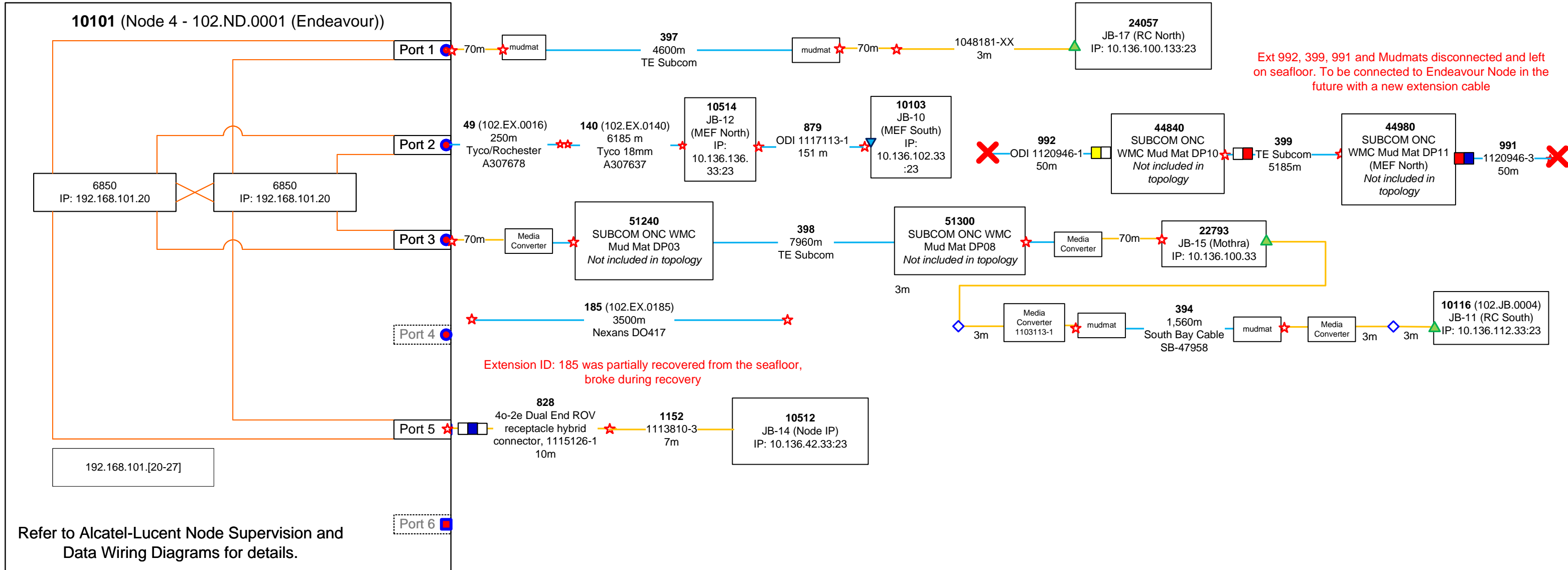
Last Release Date	2024.10.24	Last update to Page	2023.08.03
	University of Victoria Queenswood Campus #100-2474 Arbutus Road, Victoria, BC V8N 1V8 Tel. (250) 472-5400 Fax (250) 472-5370		
	<h3>Marine Configuration Diagram</h3>		
Updated by	Bahar Torabi		Page 31



Last Release Date	2024.10.24	Last update to Page	2024.10.23
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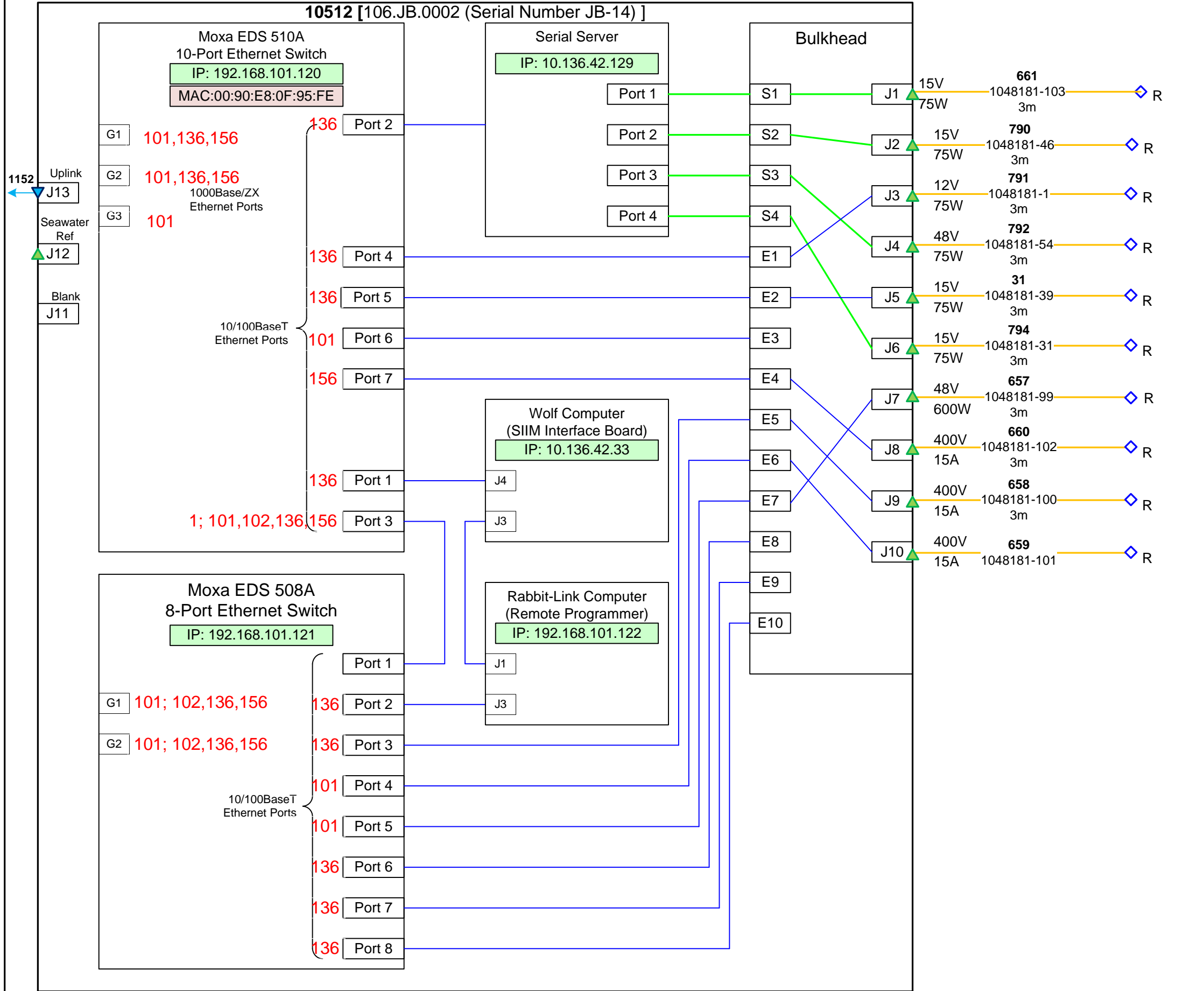
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**Marine Configuration Diagram**



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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi	Page 33	

10512 [106.JB.0002 (Serial Number JB-14) ]



**Breaker Number to 'J' Number**

Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

**Junction Box Future Planning**

Port Number	Date	Description
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G1, G2 with 1550nm SFP 80km and 12 dBm attenuator – current configuration (2022-05-11) of JB-14 can connect long haul port only, it will NOT work for any NODE science port or NEPTUNE hybrid port

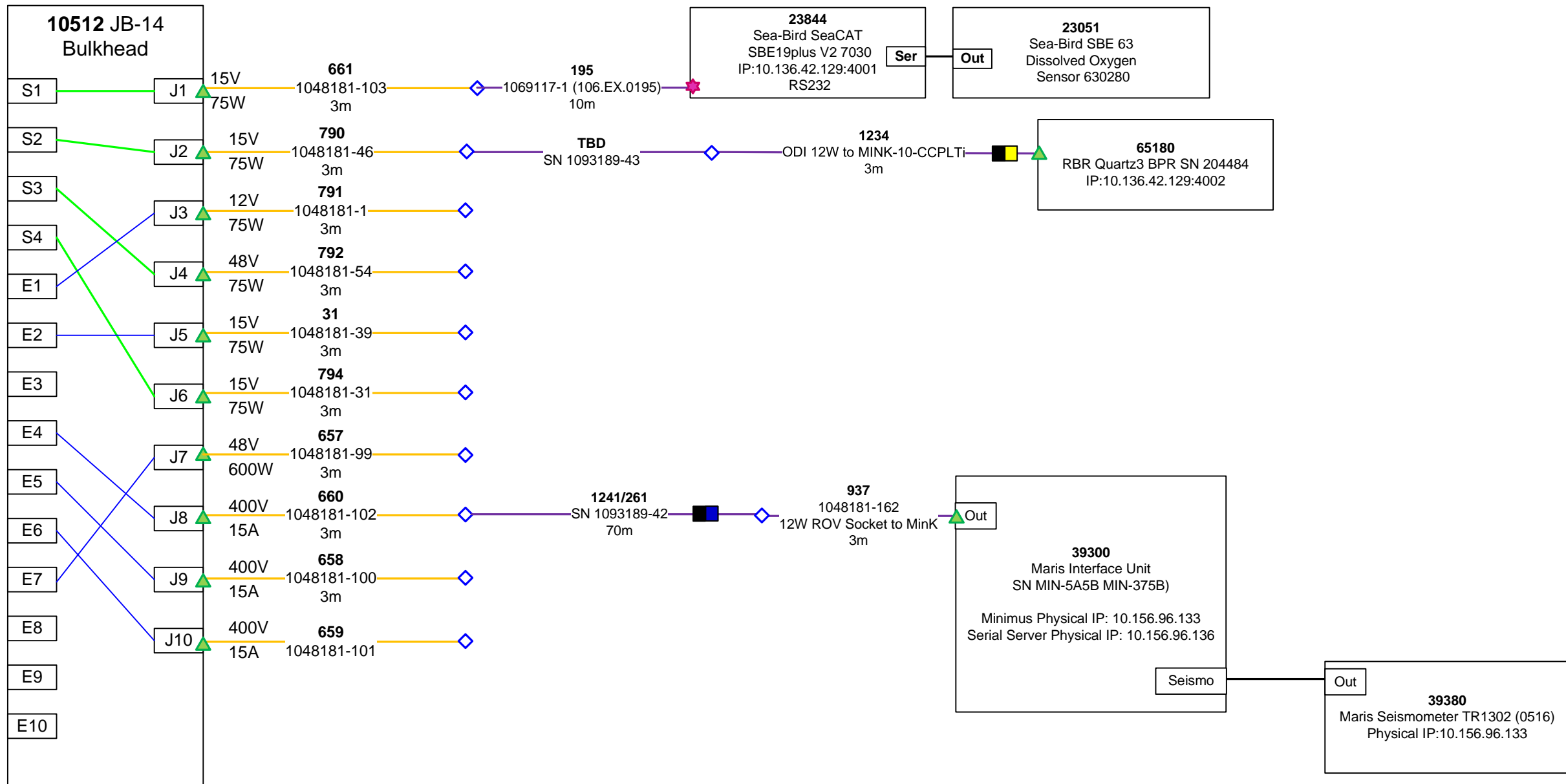
G1, G2 trunk ID 101, without aggregation

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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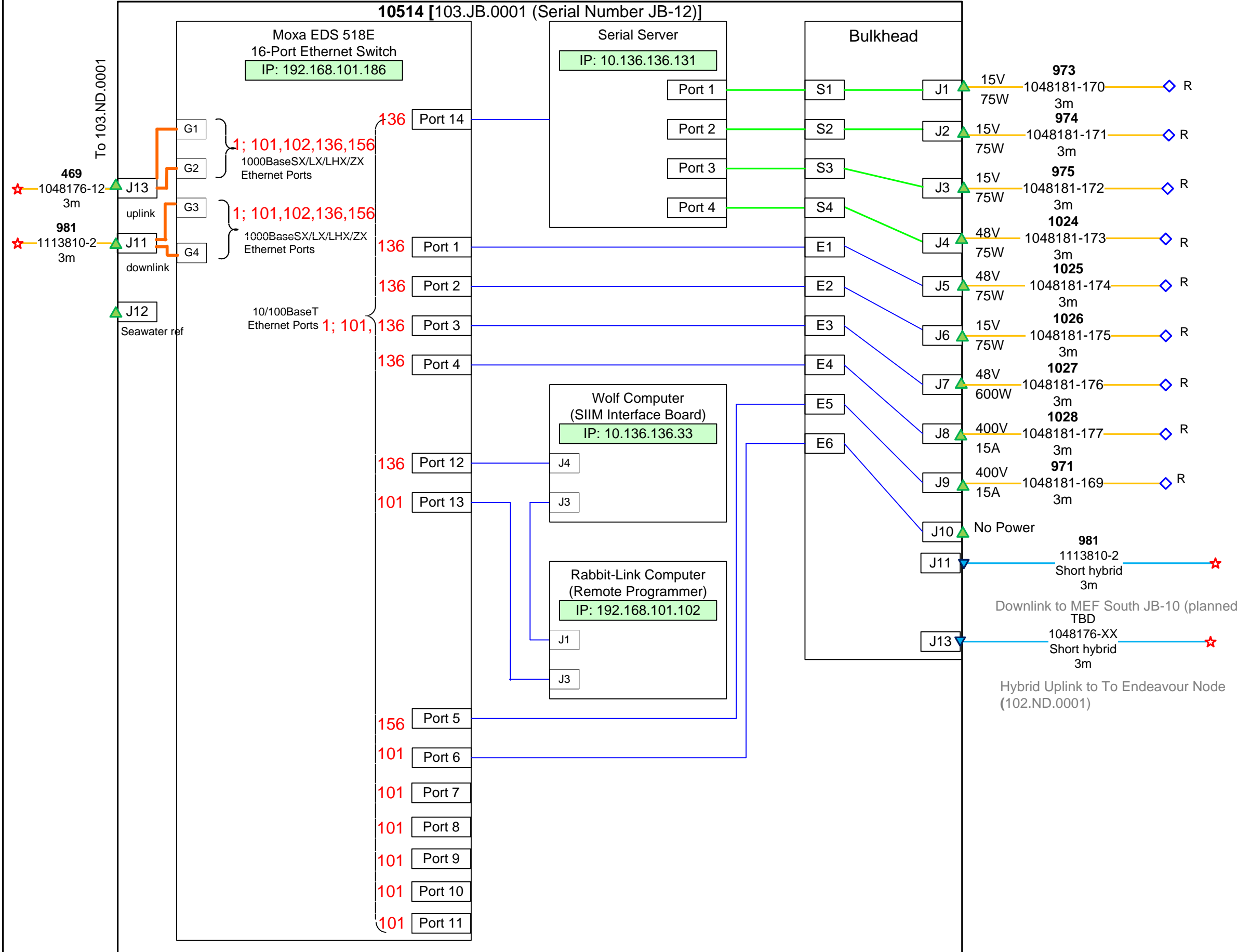
**Marine Configuration Diagram**



Note that the 70m cable SN 1093189-42 has EXTID 1241 but is physically labelled as EXTID 261, which was decommissioned. This cable should be re-labelled upon recovery.

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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi		Page 35

10514 [103.JB.0001 (Serial Number JB-12)]



**Breaker Number to 'J' Number**

**Breaker J Number**

P1	1
P2	2
P3	3
P4	8
P5	9
P6	6
P7	4
P8	5
P9	11
P10	7

**Junction Box Future Planning**

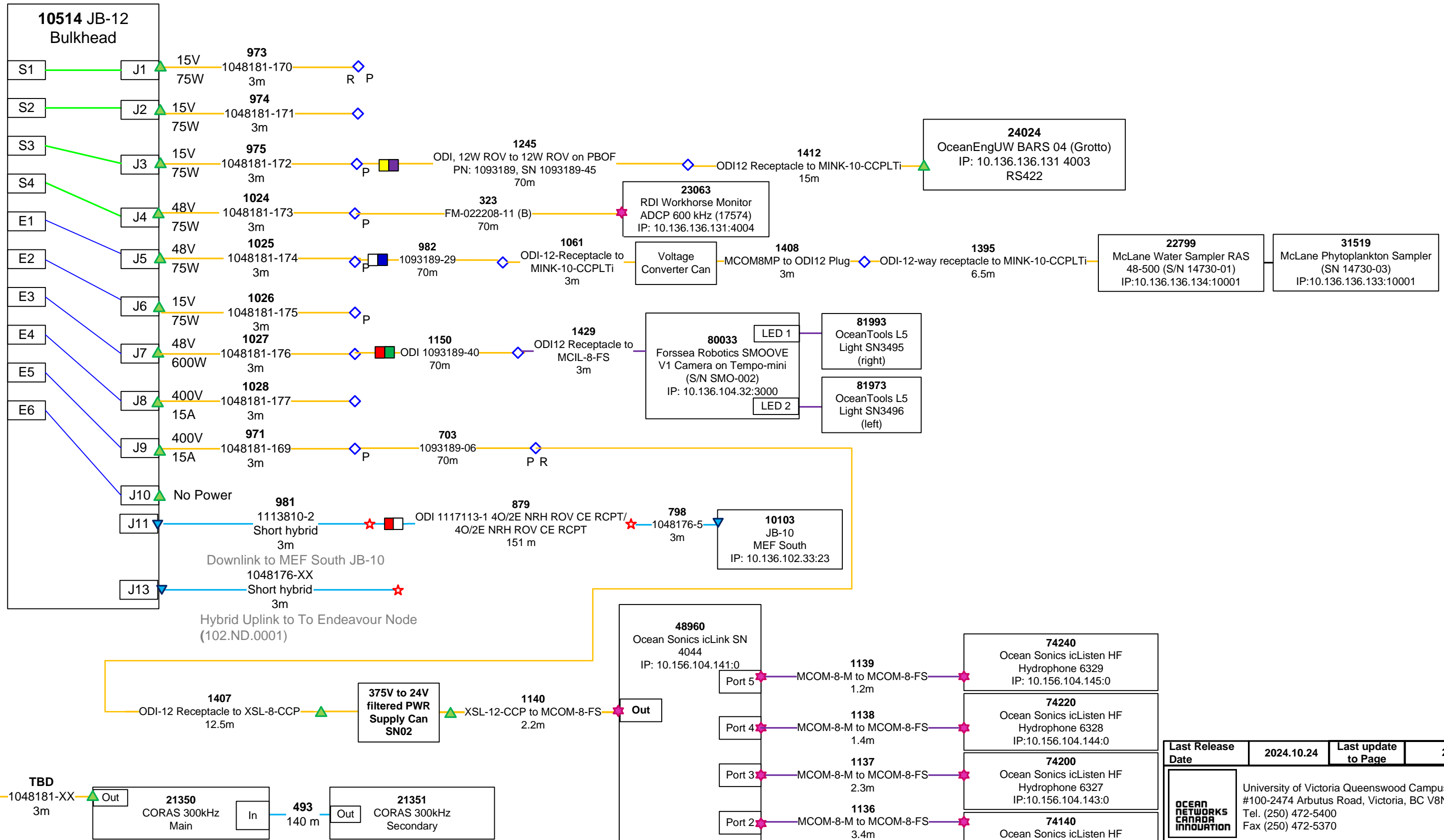
Port Number	Date	Description
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Last Release Date	2024.10.24	Last update to Page	2024.07.03
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**Marine Configuration Diagram**

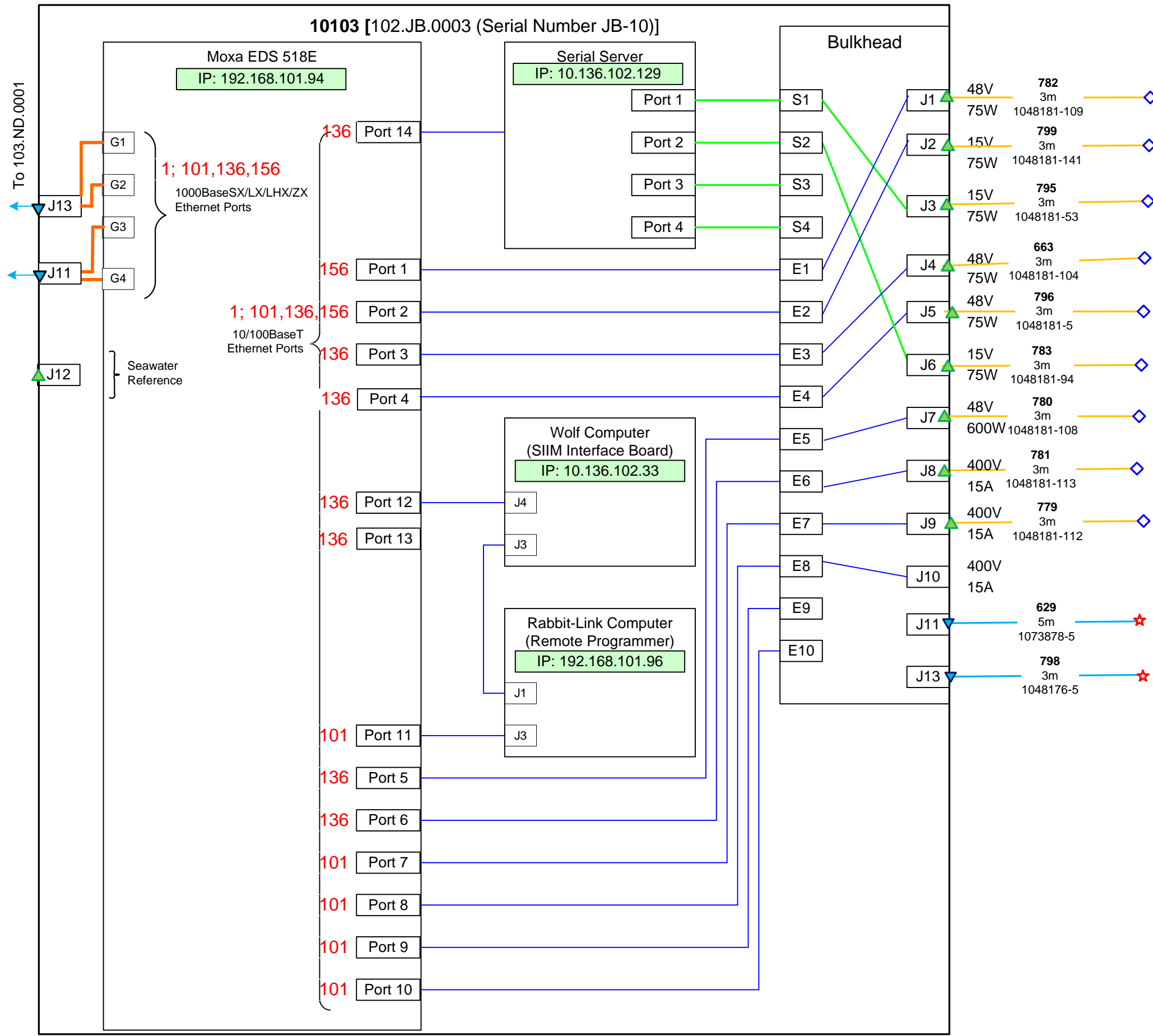




CORAS to be deployed in the future on J7

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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi	Page 37	

10103 [102.JB.0003 (Serial Number JB-10)]



**Breaker Number to 'J' Number**

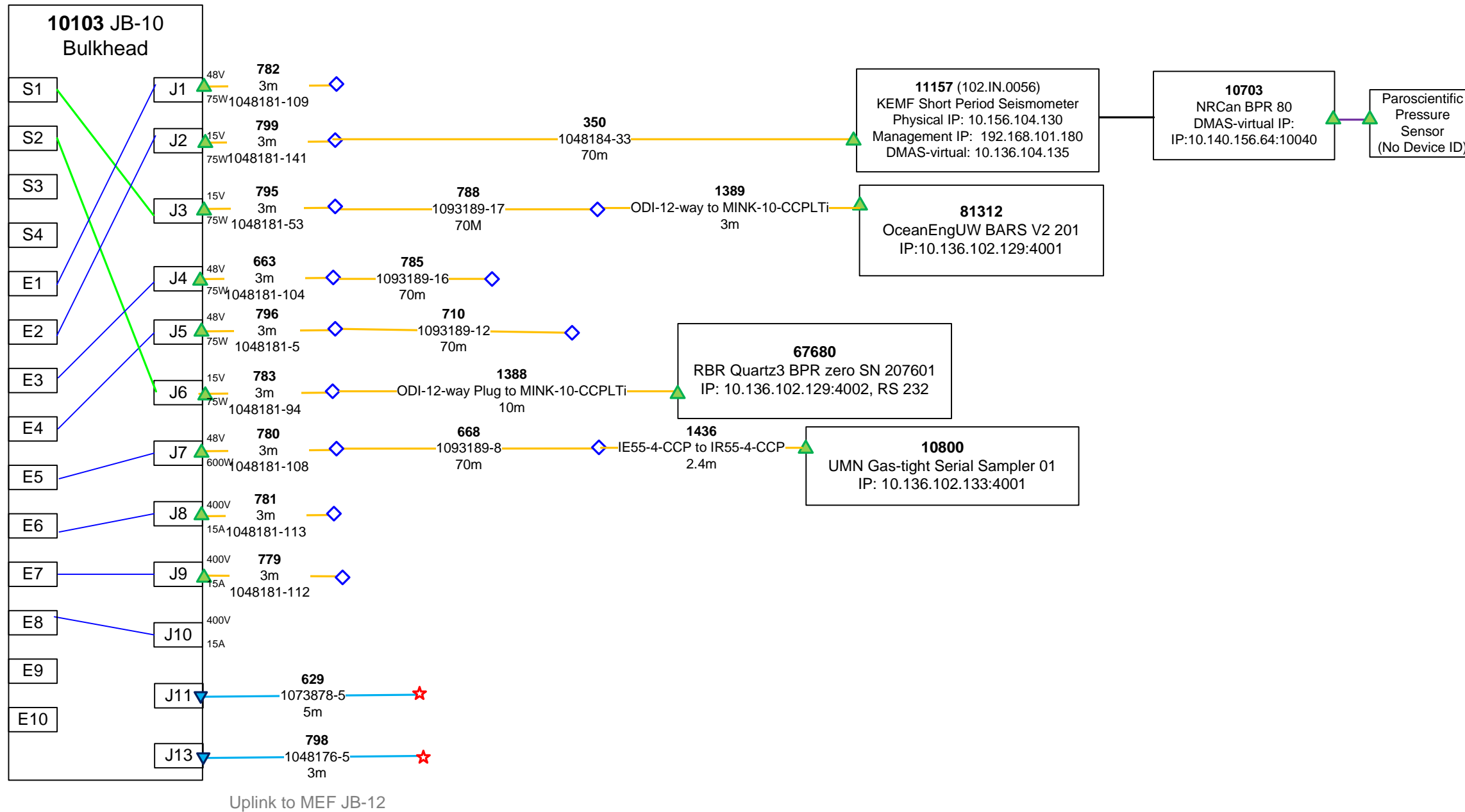
Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10/11, breaker 9 is shared
Brkr 10	7


**Junction Box Future Planning**

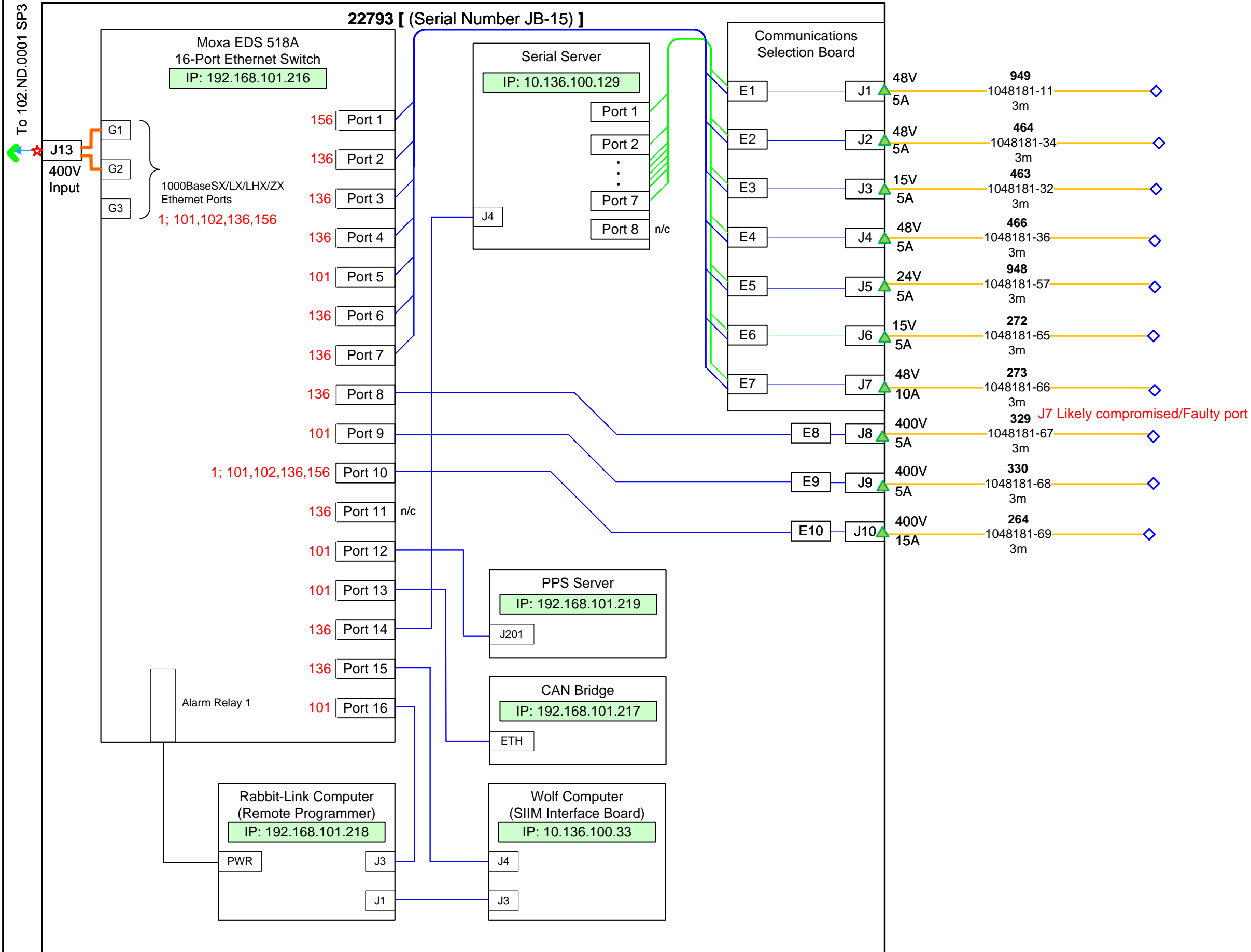
Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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**Junction Box Future Planning**

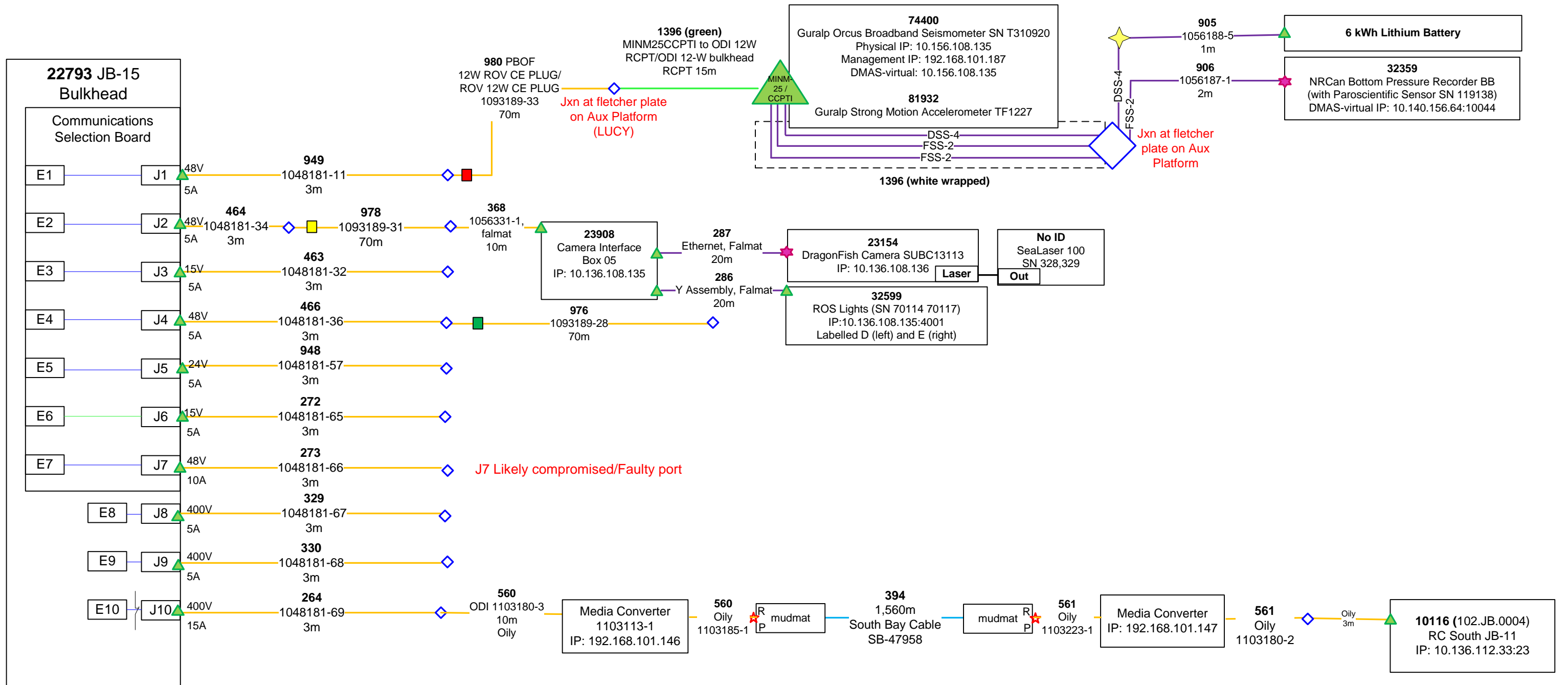
Port Number	Date	Description
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*J7 Likely compromised/Faulty port*

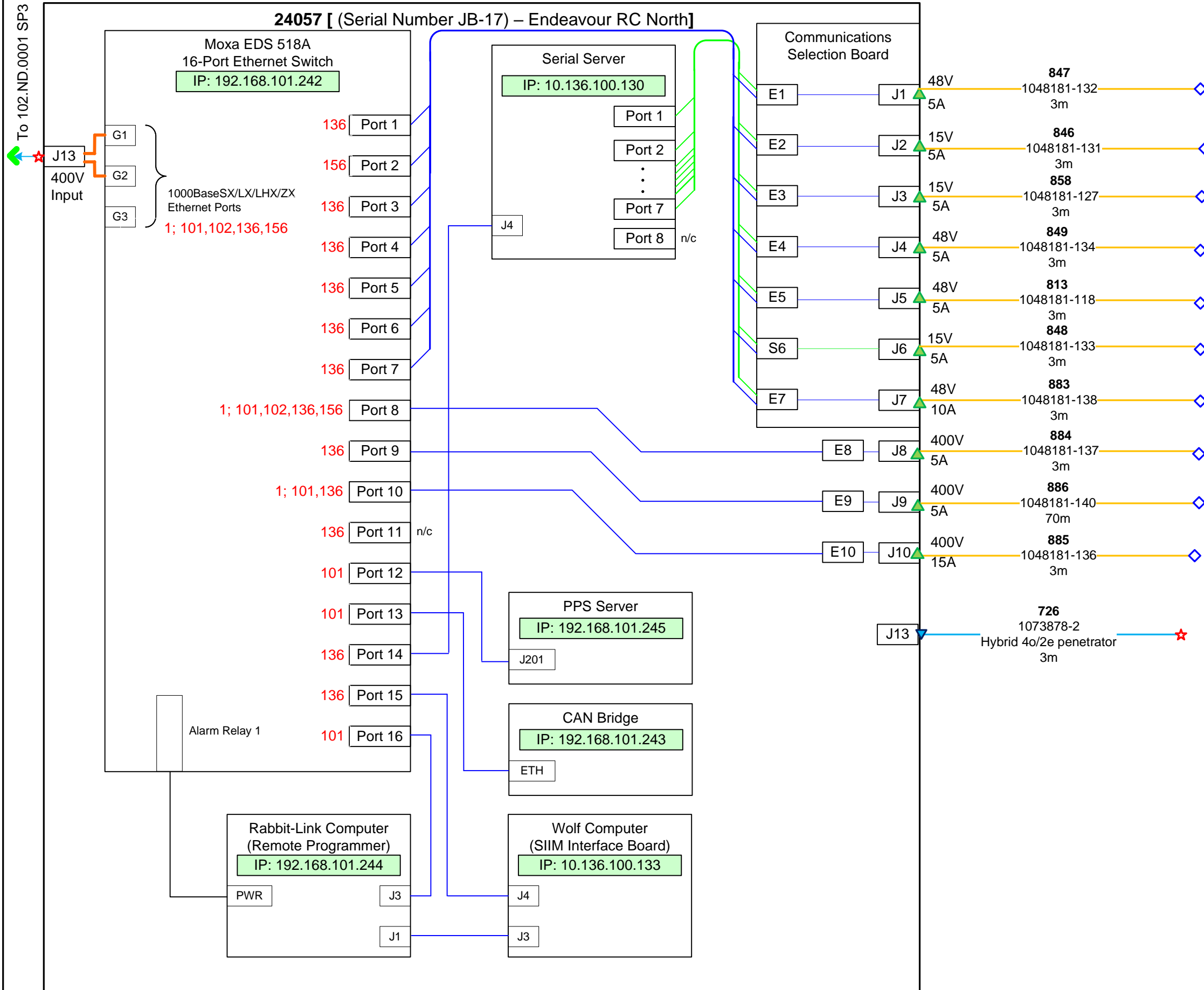
Last Release Date	2024.10.24	Last update to Page	2024.07.03
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**Marine Configuration Diagram**



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	<b>Marine Configuration Diagram</b>		
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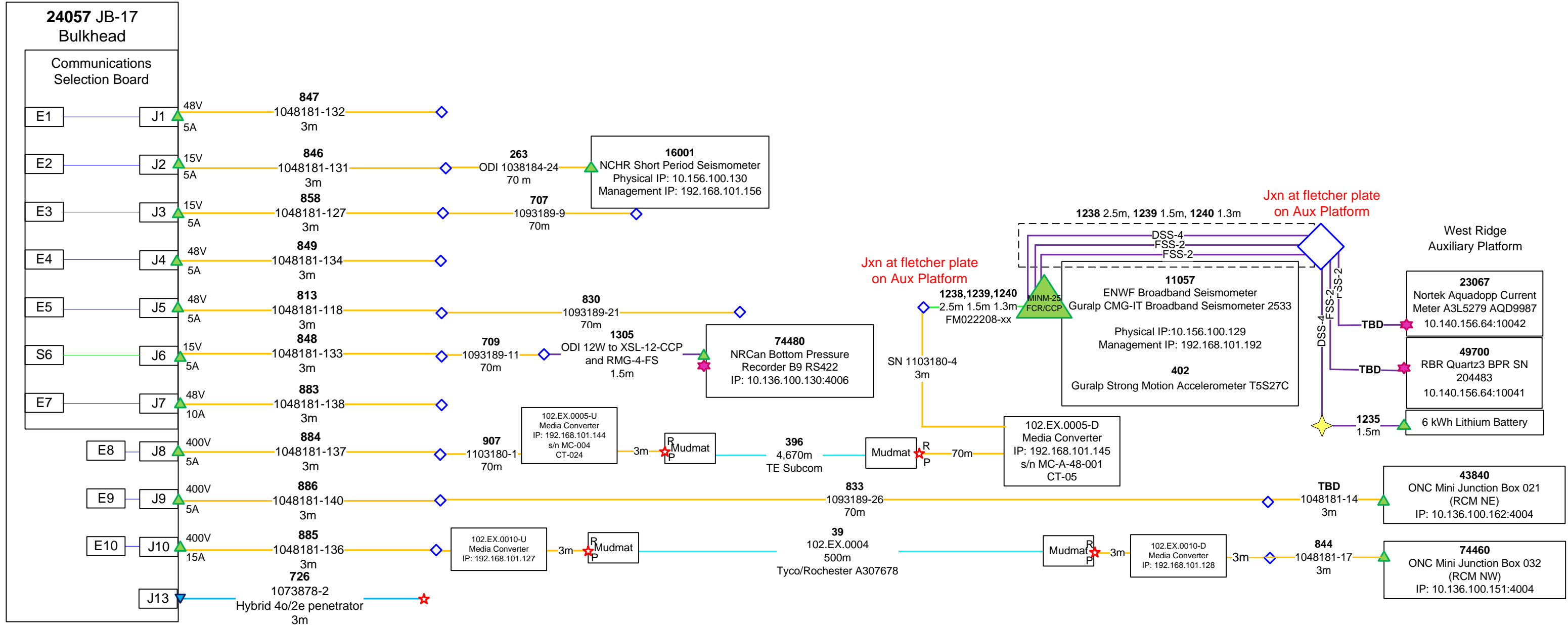
**Junction Box Future Planning**

Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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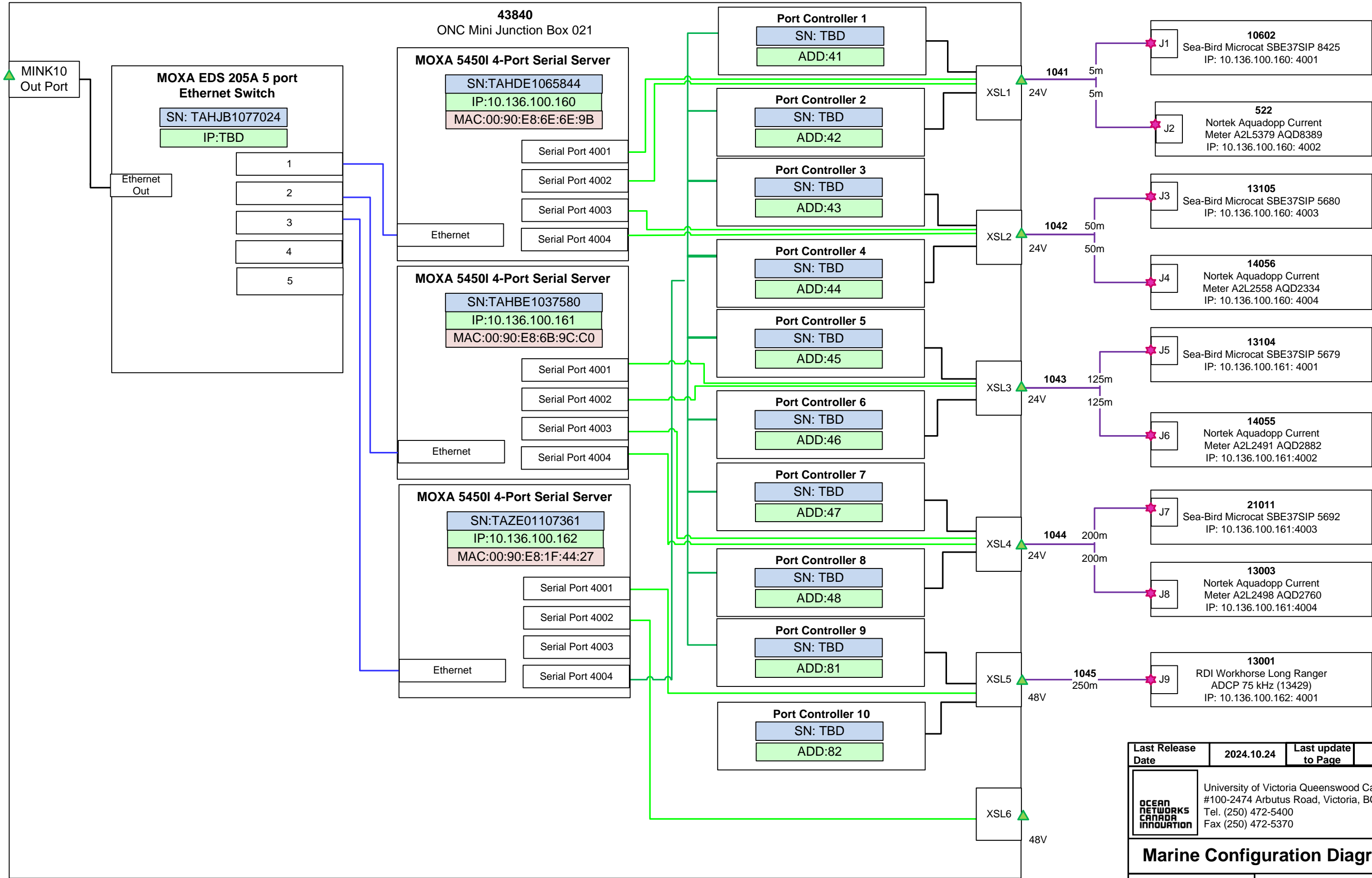
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**Marine Configuration Diagram**



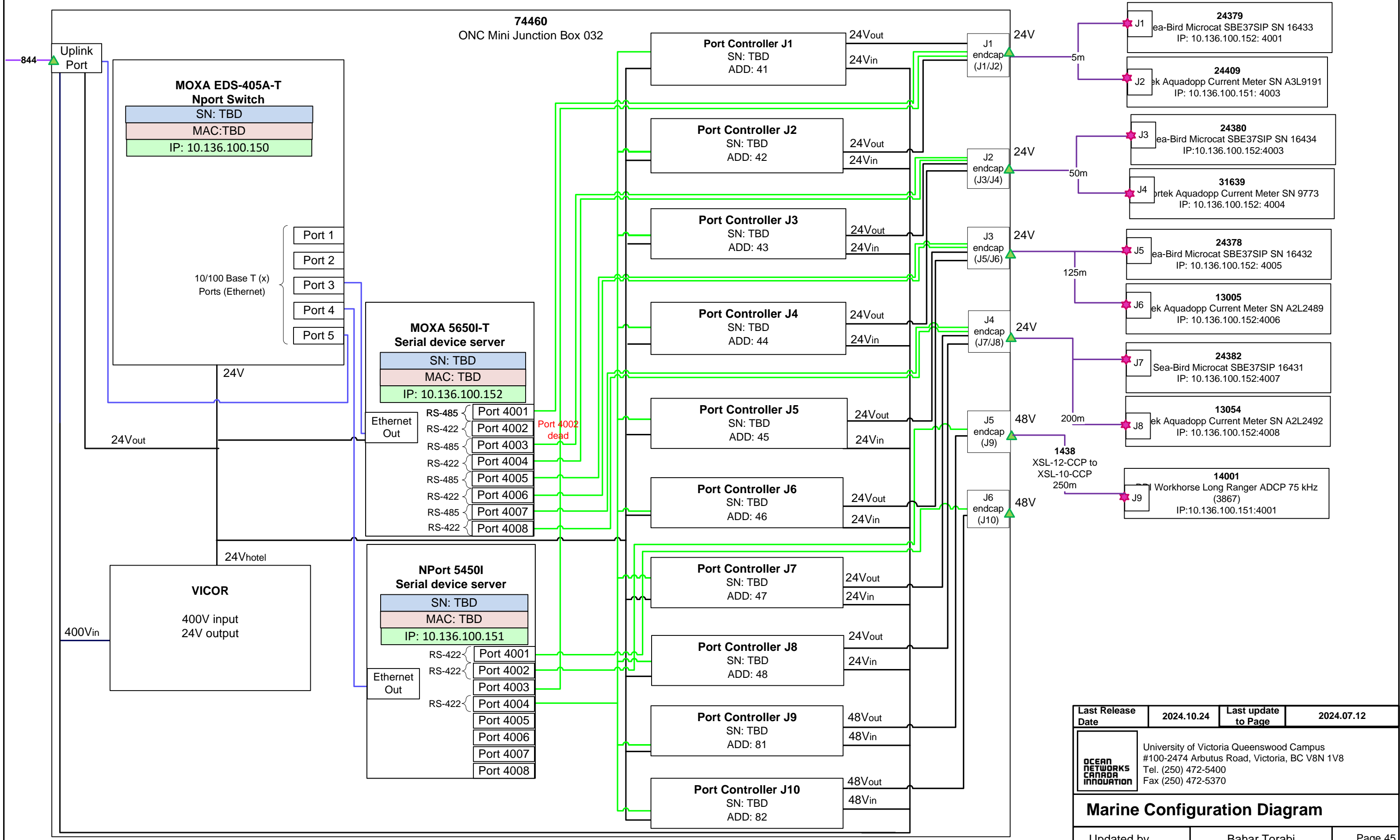
Last Release Date	2024.10.24	Last update to Page	2024.07.12
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	<b>Marine Configuration Diagram</b>		
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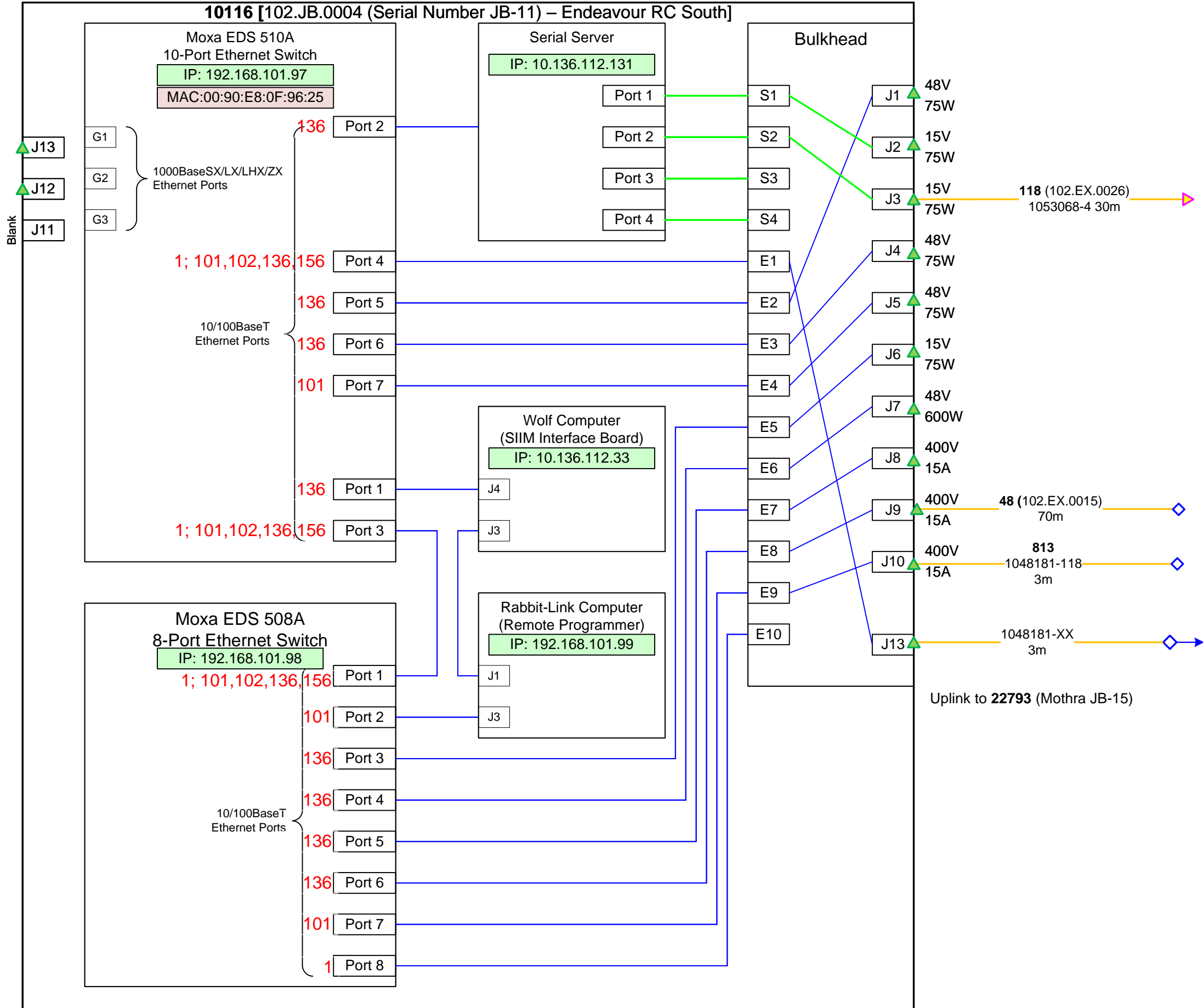
Last Release Date	2024.10.24	Last update to Page	2022.06.13
	University of Victoria Queenswood Campus #100-2474 Arbutus Road, Victoria, BC V8N 1V8 Tel. (250) 472-5400 Fax (250) 472-5370		
	<b>Marine Configuration Diagram</b>		
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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi		Page 45

**10116 [102.JB.0004 (Serial Number JB-11) – Endeavour RC South]**



**Breaker Number to 'J' Number**

Breaker	J Number
Brkr 1	1
Brkr 2	2
Brkr 3	3
Brkr 4	8
Brkr 5	9
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	10
Brkr 10	7

**Junction Box Future Planning**

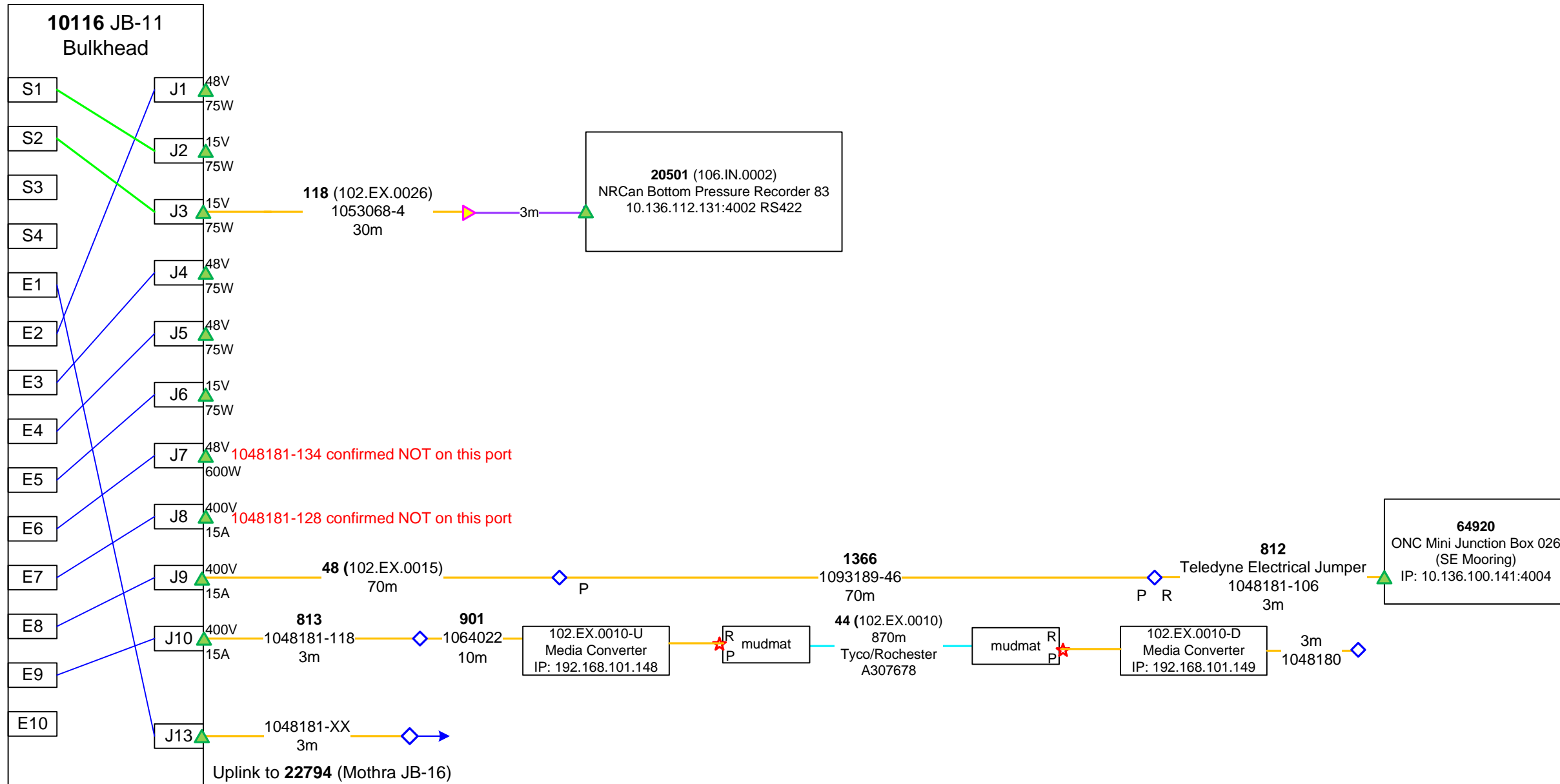
Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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**Marine Configuration Diagram**

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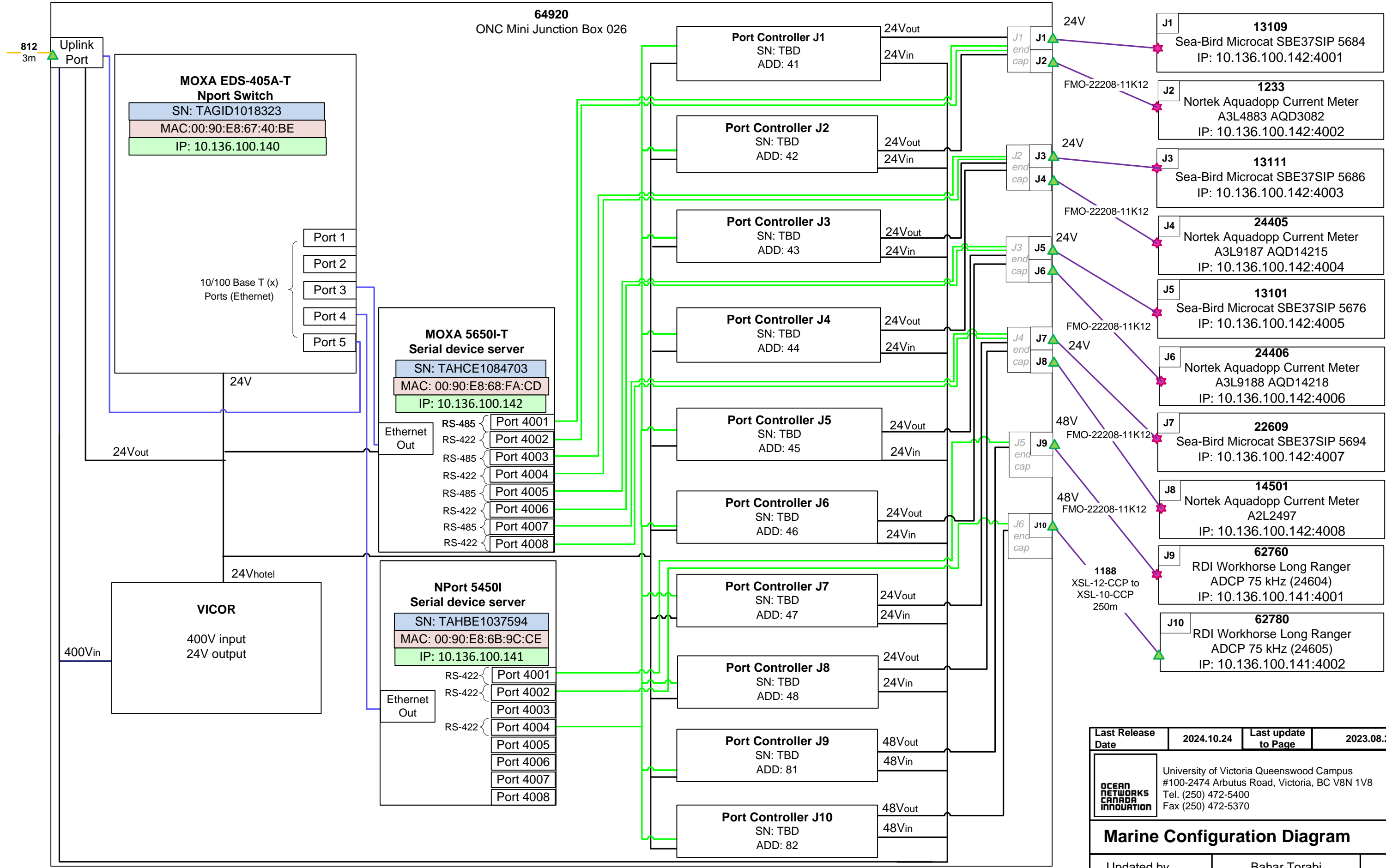
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**Marine Configuration Diagram**

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64920  
ONC Mini Junction Box 026



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**51941**  
Technicap Sediment Trap PPS 3/3-24S SN 0060  
(South Axial Valley 1)

---

**22323**  
Oceano 2500S Universal Release 1515  
(South Axial Valley 1)

---

**27999**  
Xeos XMA-7500 Argos Beacon 929  
(South Axial Valley 1)

---

**79692**  
Xeos XMF-11K Micro Flasher 1471  
(South Axial Valley 1)

**51940**  
Technicap Sediment Trap PPS 3/3-24S SN 0059  
(South Axial Valley 2)

---

**24022**  
Oceano 2500S Universal Release 2267  
(South Axial Valley 2)

---

**27359**  
Xeos XMA-7500 Argos Beacon 927  
(South Axial Valley 2)

---

**79672**  
Xeos XMF-11K Micro Flasher 1470  
(South Axial Valley 2)

**51920**  
Technicap Sediment Trap PPS 3/3-24S SN 0058  
(South Axial Valley 3)

---

**22322**  
Oceano 2500S Universal Release 1514  
(South Axial Valley 3)

---

**44880**  
Xeos XMA-11K Argos Beacon 988  
(South Axial Valley 3)

---

**79652**  
Xeos XMF-11K Micro Flasher 1469  
(South Axial Valley 3)

**32899**  
McLane Sediment Trap 78H-21 (SN 14753-02)  
(Off Axis Far Field)

---

**50600**  
Oceano 2500T Universal Release 2868  
(Off Axis Far Field)

---

**26519**  
Xeos XMA-11K Argos Beacon 891  
(Off Axis Far Field)

**23207**  
McLane Sediment Trap 78H-21 (S/N 13041-01)  
(West Flank)

---

**23134**  
Xeos XMA-7500 Argos Beacon (S/N 403)  
(West Flank)

---

**50700**  
Oceano 2500T Universal Release 2873  
(West Flank)

**23208**  
McLane Sediment Trap 78H-21 (S/N 13041-02)  
(Main Endeavour Field)

**24351**  
OceanEngUW BARS 06  
(High Rise - Godzilla)

**86392**  
Guralp Aquarius Broadband  
Seismometer SN AQU-F45F

**86432**  
Guralp Aquarius Broadband  
Seismometer SN AQU-A95F

**86372**  
Guralp Aquarius Broadband  
Seismometer SN AQU-4E5A

**86412**  
Guralp Aquarius Broadband  
Seismometer SN AQU-FB61

**86452**  
Guralp Aquarius Broadband  
Seismometer SN AQU-3F5F

Endeavour RC South SW Mooring

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**23040**  
Sea-Bird Microcat SBE37SMP-ODO  
SN 9535 (5 mab)

---

**31979**  
Sea-Bird SBE 63 Dissolved Oxygen  
Sensor SN 632211 (5 mab)

---

**523**  
Nortek Aquadopp Current Meter  
A3L5390 (5 mab)

---

**23039**  
Sea-Bird Microcat SBE37SMP-ODO  
SN 9534 (50 mab)

---

**23055**  
Sea-Bird SBE 63 Dissolved Oxygen  
Sensor SN 630184 (50 mab)

---

**521**  
Nortek Aquadopp Current Meter  
A3L5380 (50 mab)

---

**24333**  
Sea-Bird Microcat SBE37SMP-ODO  
SN 16251 (125 mab)

---

**24335**  
Sea-Bird SBE 63 Dissolved Oxygen  
Sensor SN 631772 (125 mab)

---

**24169**  
Nortek Aquadopp Current Meter  
A3L8798 (125 mab)

---

**27119**  
Sea-Bird Microcat SBE37SMP-ODO  
SN 16834 (200 mab)

---

**27139**  
Sea-Bird SBE 63 Dissolved Oxygen  
Sensor SN 631950 (200 mab)

---

**519**  
Nortek Aquadopp Current Meter  
A2L2494 A3L5377 (200 mab)

---

**50580**  
Oceano 2500T Universal Release 2867

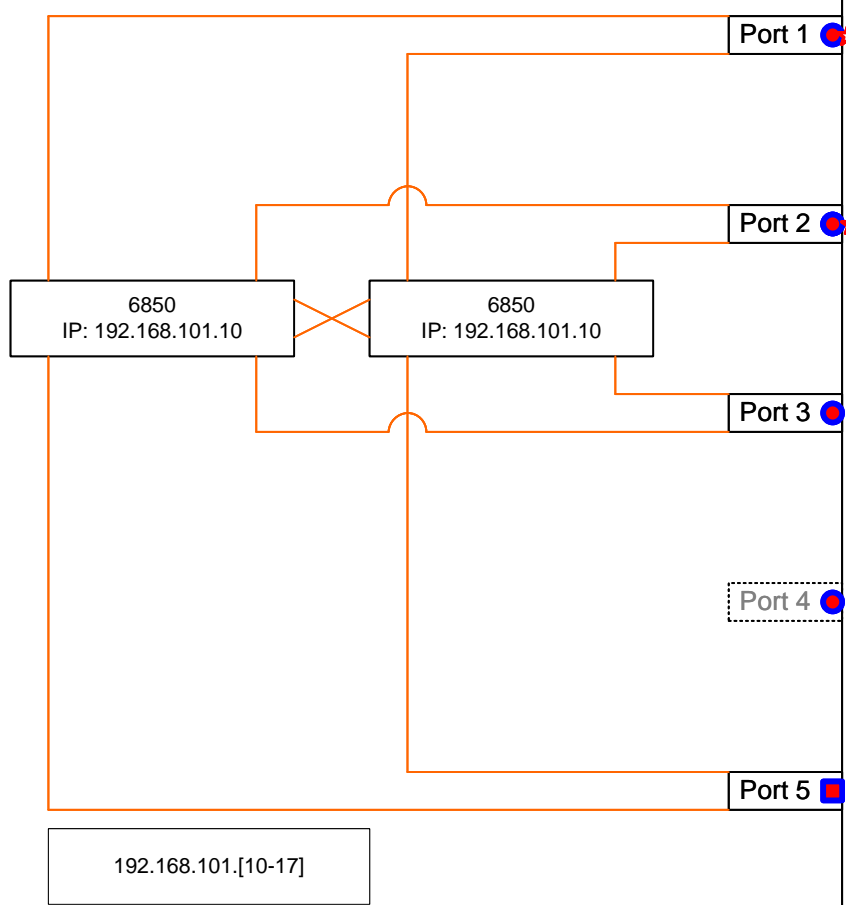
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**74981**  
Sonardyne WMT-6 8190-3111  
SN338751-002

---

**32499**  
Xeos XMA-11K Argos Beacon 963

10501 (Node 1 - 106.ND.0001) (Folger Passage)




281 (106.EX.0281) 1052662-2  
70m  
ODI PBOF Hose

10011  
OceanWorks Junction Box JB-02  
IP: 10.136.36.33:23

244 (106.EX.0244)  
700m  
Nexans DO417

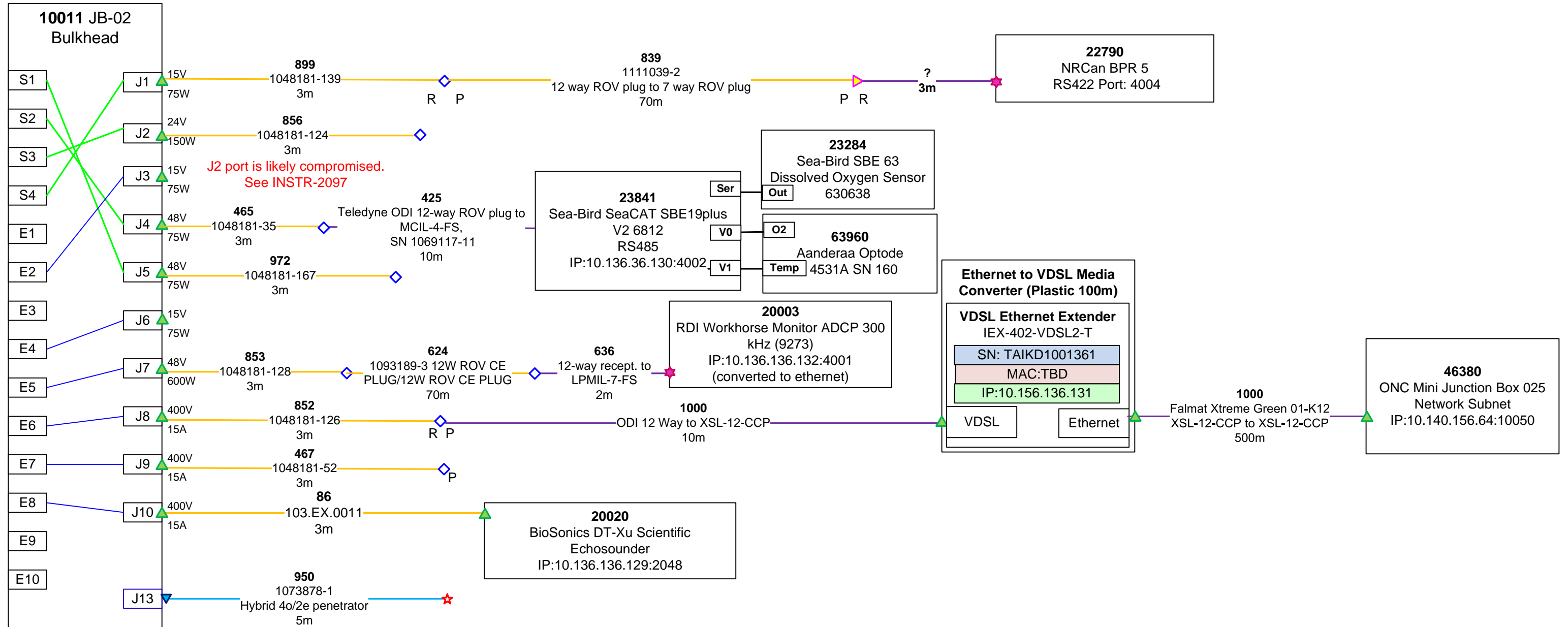
10515  
OceanWorks Junction Box JB-01  
IP: 10.136.132.33:23

Refer to Alcatel-Lucent Node Supervision and Data Wiring Diagrams for details.

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	<b>Marine Configuration Diagram</b>		
Updated by	Bahar Torabi		Page 50

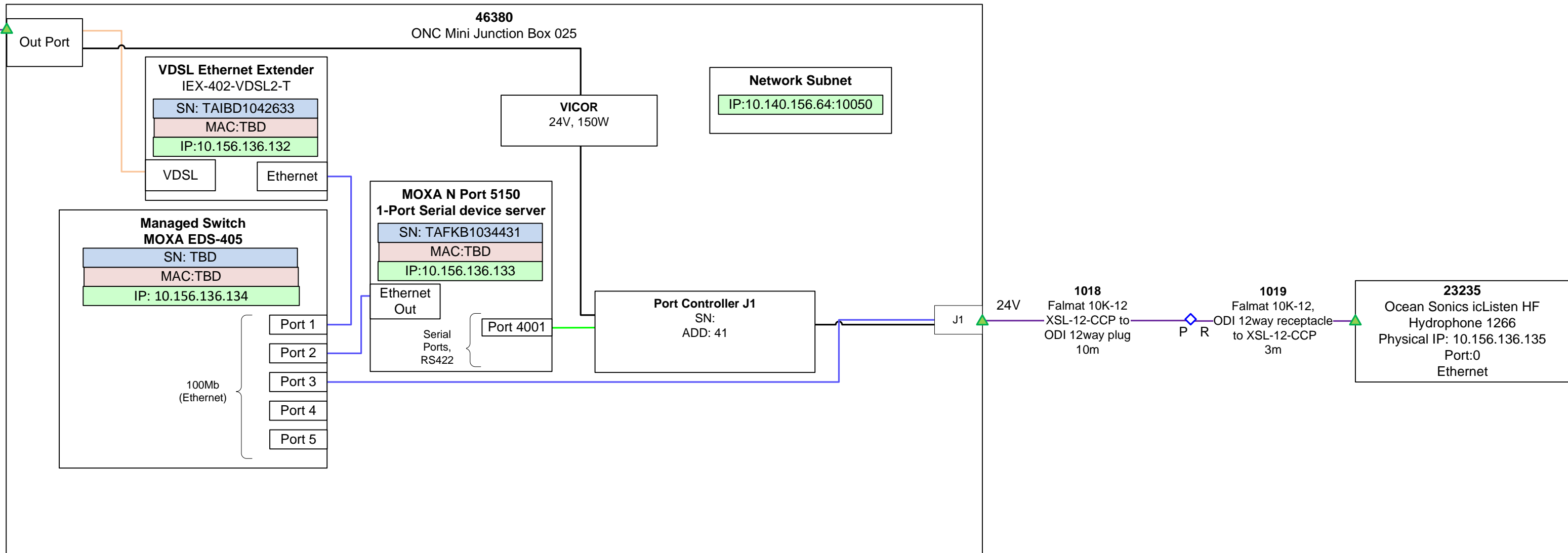







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	<b>Marine Configuration Diagram</b>		
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	<b>Marine Configuration Diagram</b>		
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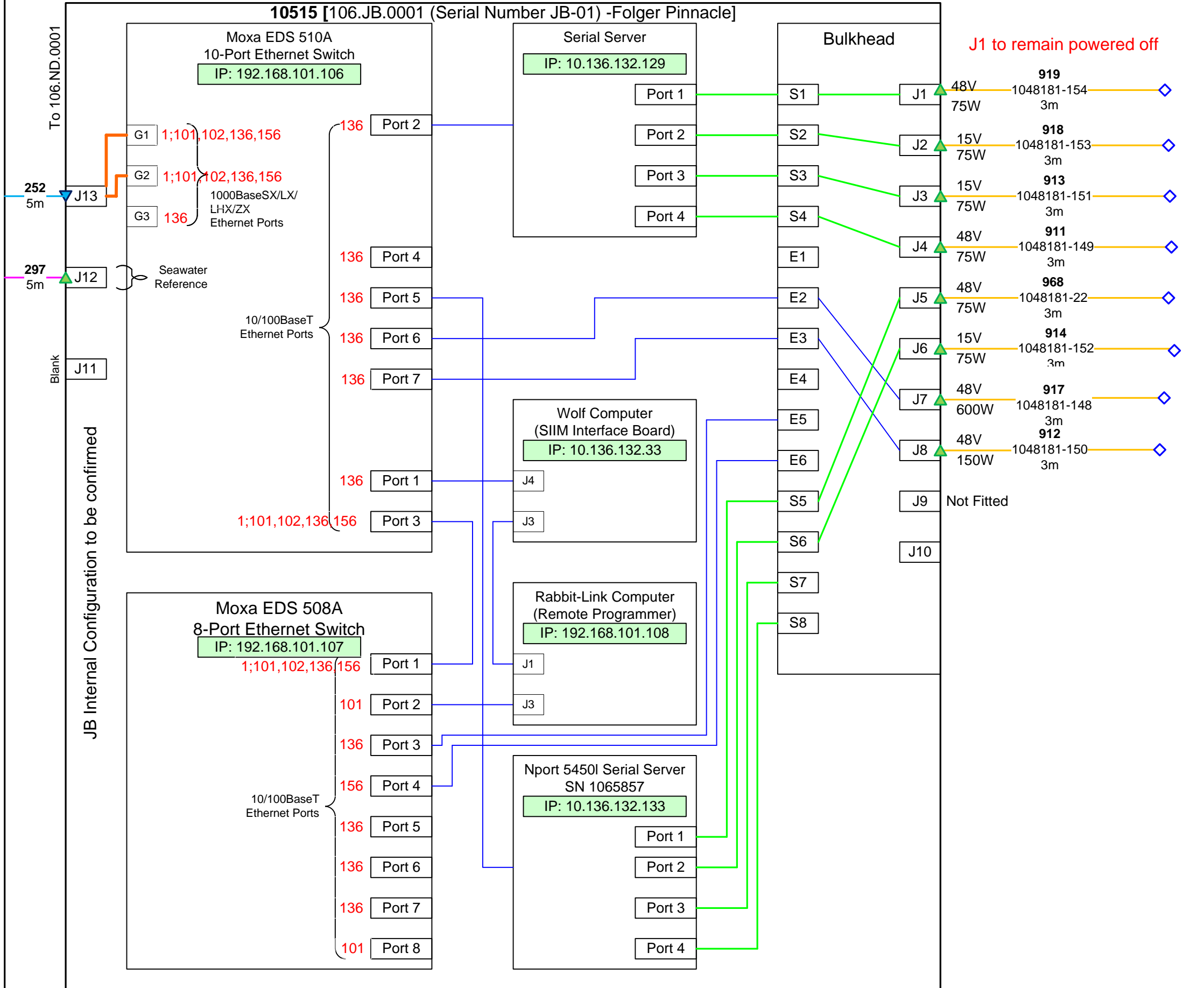
Last Release Date	2024.10.24	Last update to Page	2023.07.25
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**Marine Configuration Diagram**

10515 [106.JB.0001 (Serial Number JB-01) -Folger Pinnacle]



Breaker Number to 'J' Number

Breaker	J Number
Brkr 1 not fitted	-
Brkr 2 not fitted	-
Brkr 3	3
Brkr 4	1
Brkr 5	2
Brkr 6	6
Brkr 7	4
Brkr 8	5
Brkr 9	8
Brkr 10	7

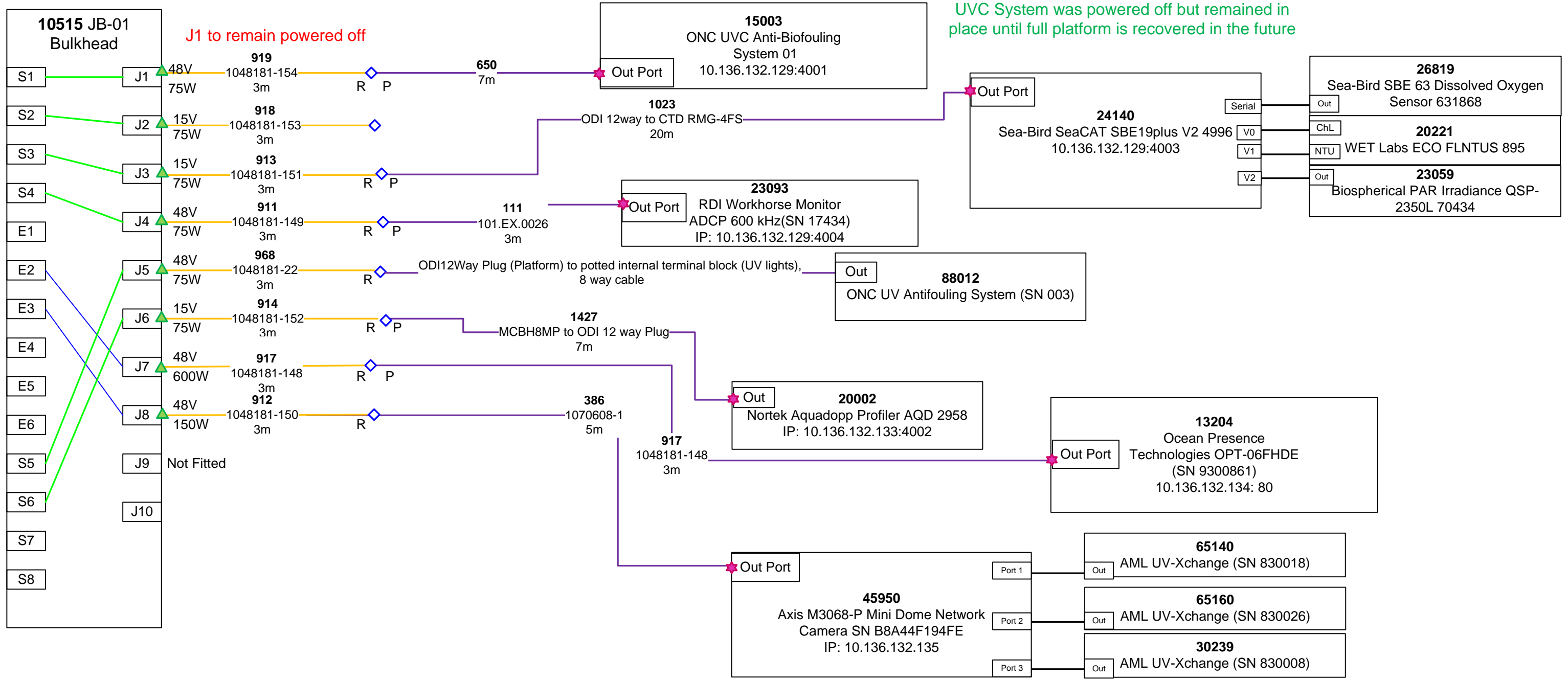
Junction Box Future Planning

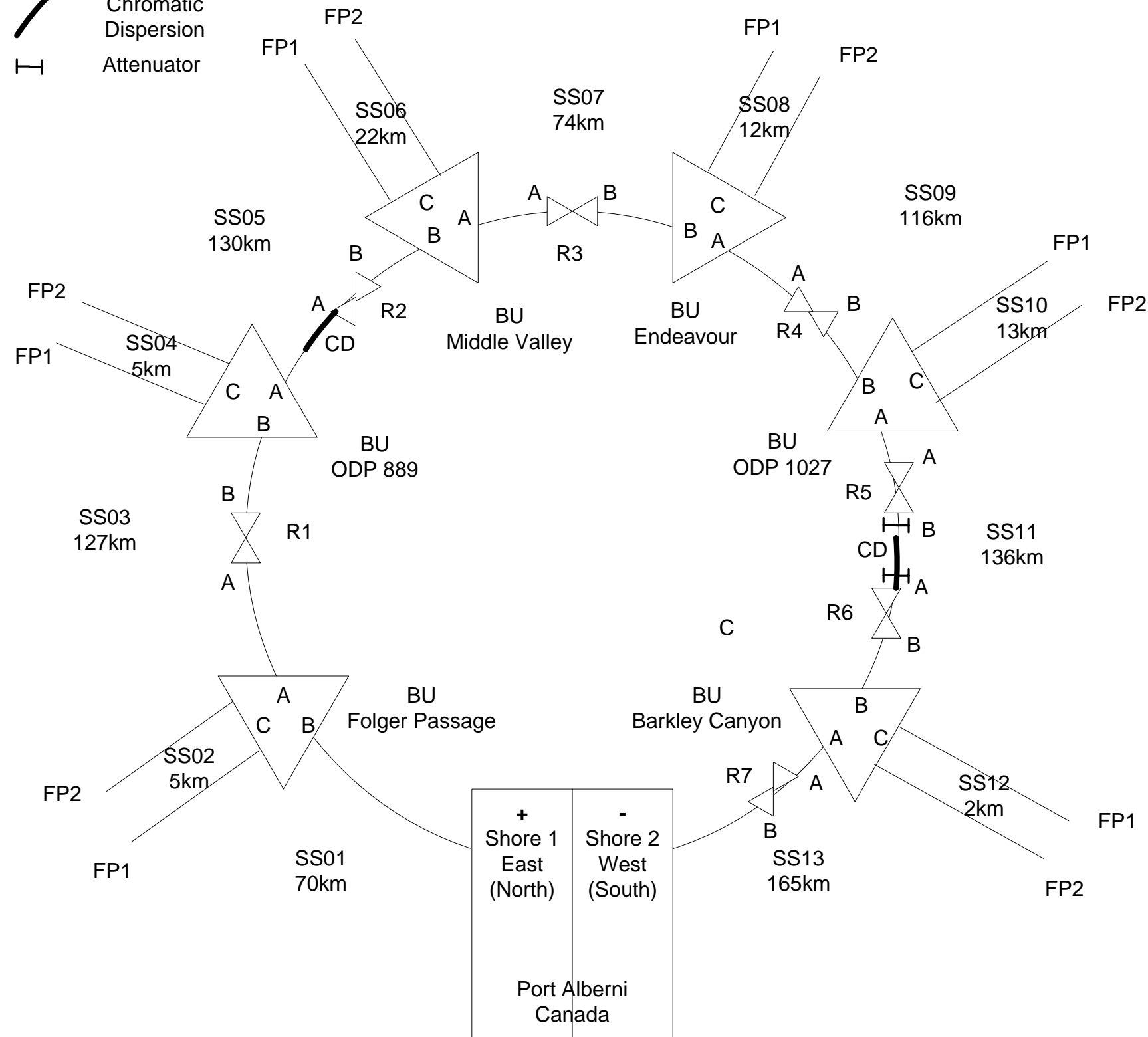
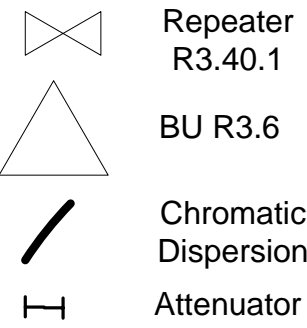
Port Number	Date	Description

Last Release Date	2024.10.24	Last update to Page	2024.07.03
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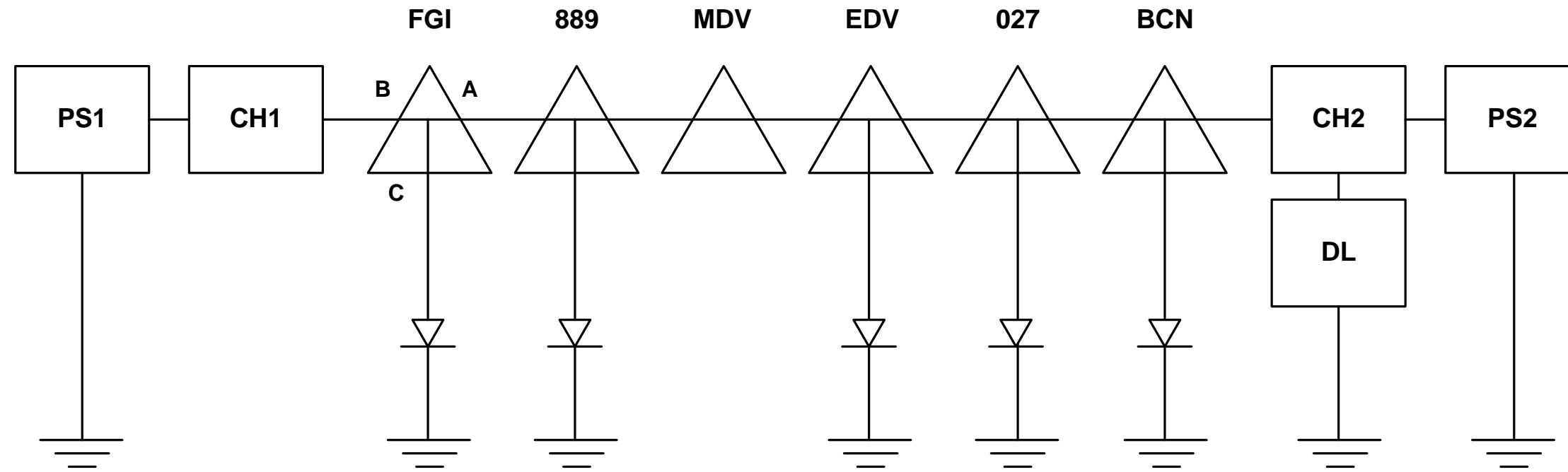
Marine Configuration Diagram





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### BU Arrangement and Normal Powering



MVC acts as diode for voltages  $+1.3\text{kV} > V > -5.6\text{kV}$   
 Forward voltage drop approx 73V

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### Marine Configuration Diagram

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# VENUS Recent Updates

## Version MarineNetworkConfig\_2024-10-23

(DSO-1941) Update marine config for post-expedition 2024-10 CanPac cruise

\*pg - 60\* - Saanich Inlet- SI node

\* SIIM DI 1210 and cable EXTID 1021 recovered during Dive CAN008 <https://data.oceannetworks.ca/app/dive-logs/4901?annotationId=6596401> - removed from J6 of Saanich Inlet Node

\*pg - 61\* - Saanich Inlet- SI node

\* SIIM DI 1210 recovered and removed from J6 of Saanich Inlet Node

\*pg - 65\* - Saanich Inlet VIP

\* VIP DI 1210 and downstream instruments DIs 23289, 47780, 22634, 23912, 26279 were recovered during Dive CAN008 - See handoff notes from 2024-10-12 6:30 AM to 1:30 PM: [https://docs.google.com/document/d/1AvU0AJqu54ly72uEdAdgdUFauN\\_PimYyqLsLn3xFNmo/edit?tab=t.0](https://docs.google.com/document/d/1AvU0AJqu54ly72uEdAdgdUFauN_PimYyqLsLn3xFNmo/edit?tab=t.0) and recovery annotation: <https://data.oceannetworks.ca/SeaTubeV3?resourceTypeld=600&resourceId=4901&time=2024-10-12T18:03:37.561Z&annotationId=6596401>

\* However, hydrophone array DIs 68660, 80252, 23478, 24346 disconnected from SIIM DI 1210 and then were left on site without being recovered: see disconnection annotation: <https://data.oceannetworks.ca/SeaTubeV3?resourceTypeld=600&resourceId=4901&time=2024-10-12T17:37:04.807Z&annotationId=6594801> . So, I added a red note mentioning the situation: "The hydrophone array was disconnected from from J6 LV port of S30006 DI 1210 during 2024-10 CanPac cruise. After the recovery of the upstream SIIM DI 1210, the disconnected hydrophone array was left on-site and not recovered"

\* SIIM DI 1210 moved to Small Obs diagram under MTC section pg 70-S30006

## Version MarineNetworkConfig\_2024-08-08

(DSO-1532) Marine Configuration Diagram Update for 2024-07 VENUS autonomous moorings

\* pg 72 - SoG Central CTD (Auto)

\*\* swapped CTD

\* pg 76 - SoG East CTD (Auto)

\*\* deployed CTD

## Version MarineNetworkConfig\_2024-01-25

(NEPDATA-24986) Update Marine Config Diagram for Saanich Sill

\*pg.68: SI SILL Autonomous:

\*\* DIs 23281, 12102, 10 included notes for planned recovery

\*\* added DIs 24001, 24121, 525 & included notes for deployment

## Version: MarineNetworkConfig\_2023-11-23

(NEPDATA-24891) Update Marine Config Diagram after 2023-11 SoG Central and SoG East maintenance

\* page 72 - Autonomous Site - Strait of Georgia Central Autonomous CTD

\*\* all 5 devices CTD/O2, Flasher, beacon,release swapped for new set of devices DIs 23832/31939, 71980,26539,50680 - FS-106 and EN-7250

\* page 78 - Autonomous Site - Strait of Georgia East Autonomous CTD

\*\* Devices not recovered

## Version: MarineNetworkConfig\_2023-11-02

(NEPDATA-24819) Update Marine Config Diagram for 2023-11 SoG Central and SoG East maintenance

\* page 72 - Autonomous Site - Strait of Georgia Central Autonomous CTD

\*\* all 5 devices CTD/O2, Flasher, beacon,release to be swapped for new set of devices DIs 23832/31939, 71980,26539,50680 - FS-106 and EN-7250

\* page 78 - Autonomous Site - Strait of Georgia East Autonomous CTD

\*\* all 5 devices CTD/O2, Flasher, beacon,release to be recovered - FS-106

## Version: MarineNetworkConfig\_2023-10-31

(NEPDATA-24816) Update marine config for post expedition 2023-10 BPS Maintenance

\* pg 63 - SI Buoy Profiler System Mooring

\*\* recovered CTD DIs 49160, 23568

\*\* swapped GPS DI 15103 for 74760

\* pg 65 - SI Buoy Profiler System Instruments

\*\* deployed CTD DIs 23087, 22642, 24117, 80692 via Ext 1190 on port J1

## Version: MarineNetworkConfig\_2023-10-25

(NEPDATA-24799) Update marine config for pre expedition 2023-10 BPS Maintenance

\* pg 63 - SI Buoy Profiler System Mooring

\*\* recover CTD DIs 49160, 23568

\* pg 65 - SI Buoy Profiler System Instruments


\*\* deploy CTD DIs 23087, 22642, 24117, 80692

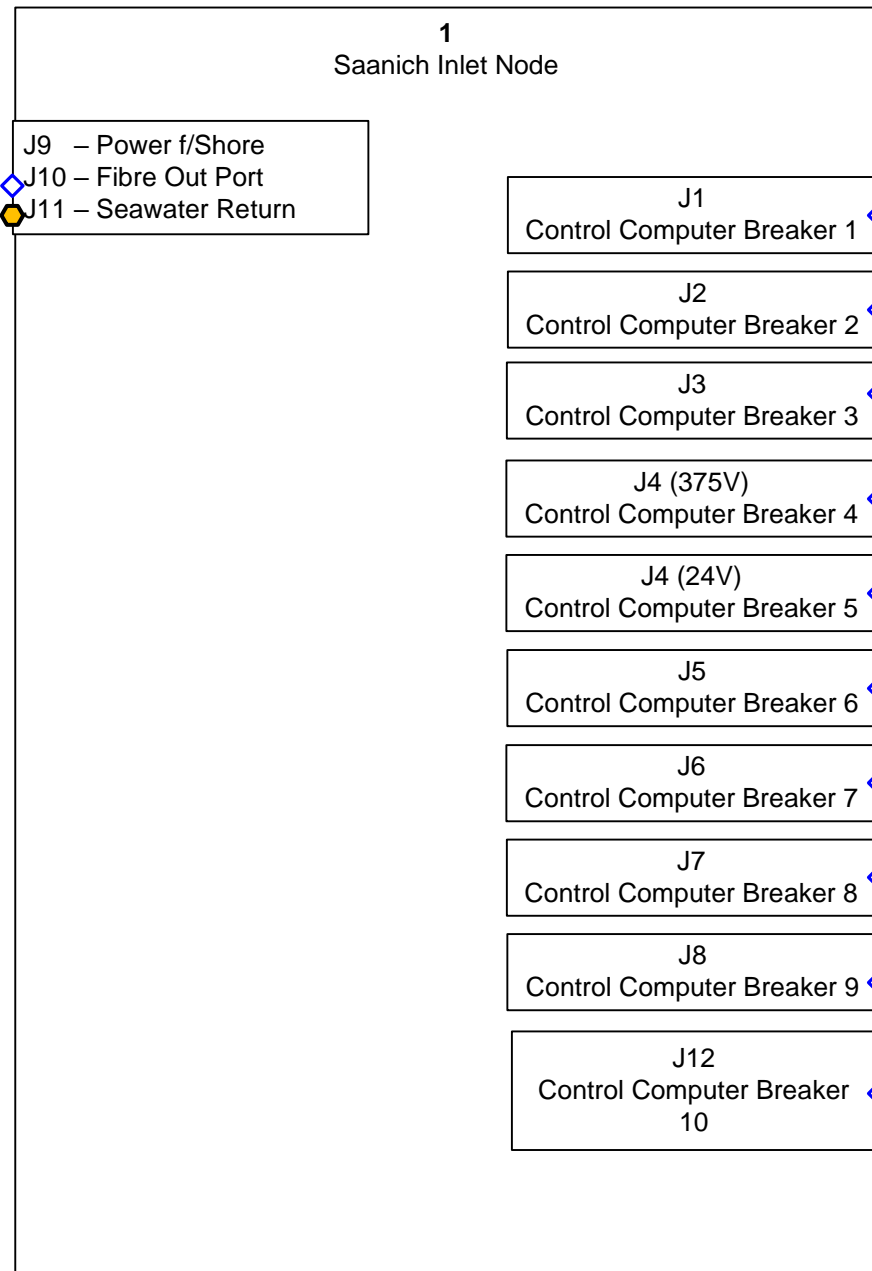
## Version: MarineNetworkConfig\_2023-08-24

(NEPDATA-24309) Update marine config for post-expedition 2023-07 Sill Maintenance

\* pg 67 - Autonomous Site - Saanich Inlet SILL (Pyramid Frame):

\*\* CTD DI 23028, O2 DI 23044, ADCP DI 525, and Acoustic Release DI 45480 got recovered and CTD DI 12102, O2 DI 23281, ADCP DI 10 were deployed

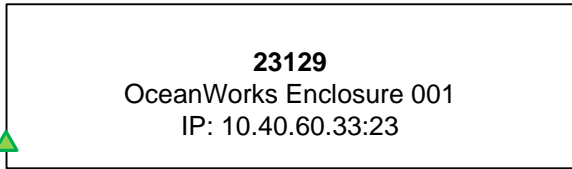
Last Release Date	2024.10.24	Last update to Page	2024.10.23
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	<b>Marine Configuration Diagram</b>		
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J1 Node port compromised/damaged. Pin damage on one side of the ODI connector on S30005, which was previously deployed on this port. See OPE-456

J2 port is compromised. See OPE-567

J3 port is likely compromised, as the damaged ODI plug was mated to J3 during troubleshooting. See OPE-567



J8 - Failed Hybrid port on SI Node?  
Was for OTTB

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**Marine Configuration Diagram**

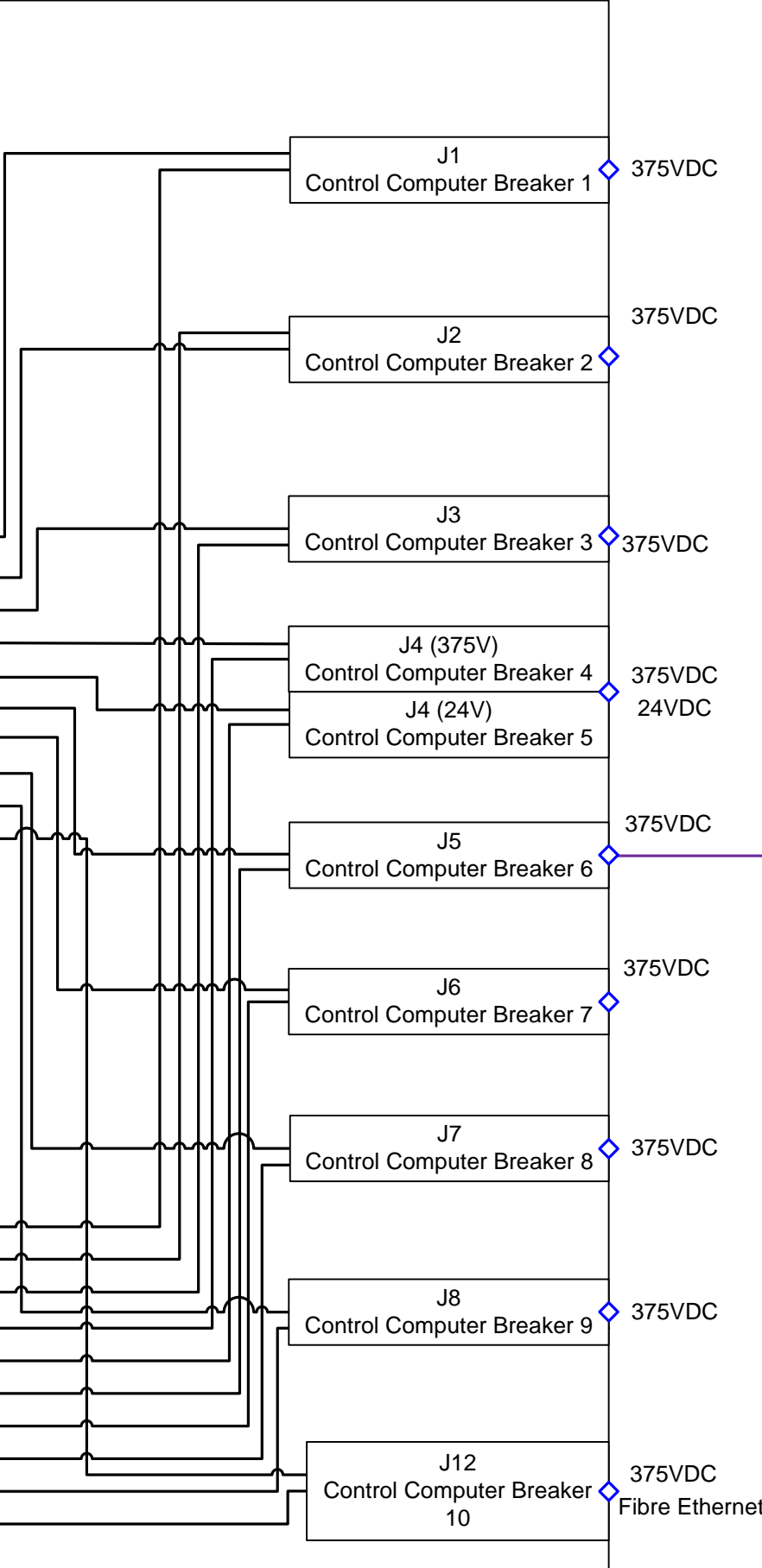
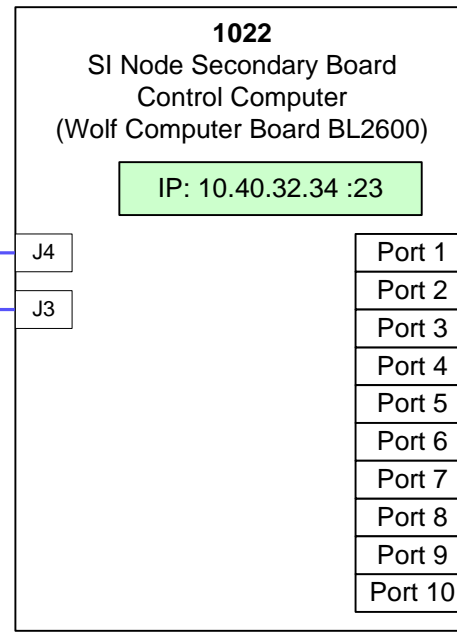
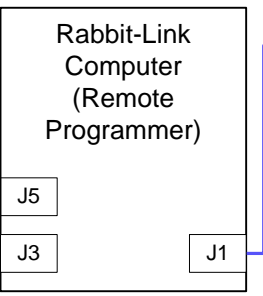
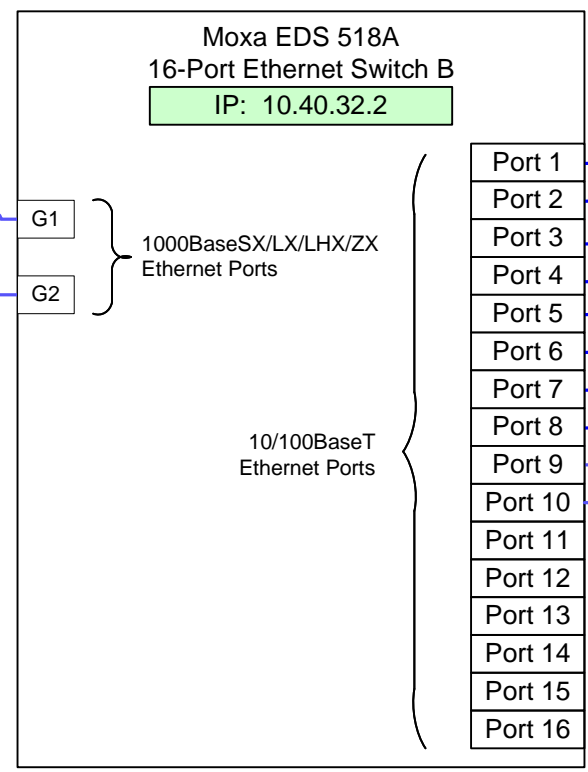
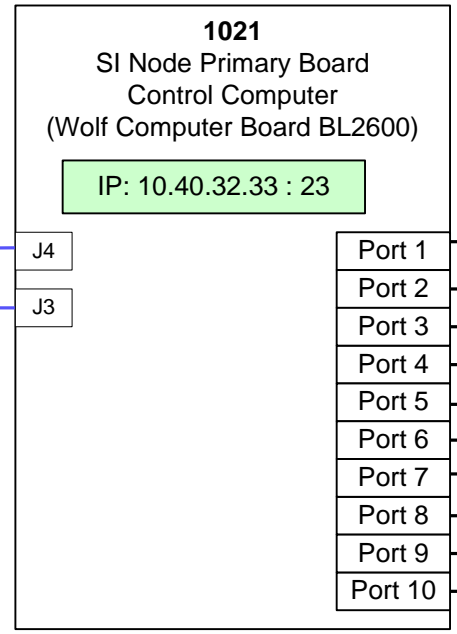
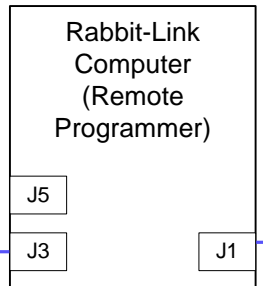
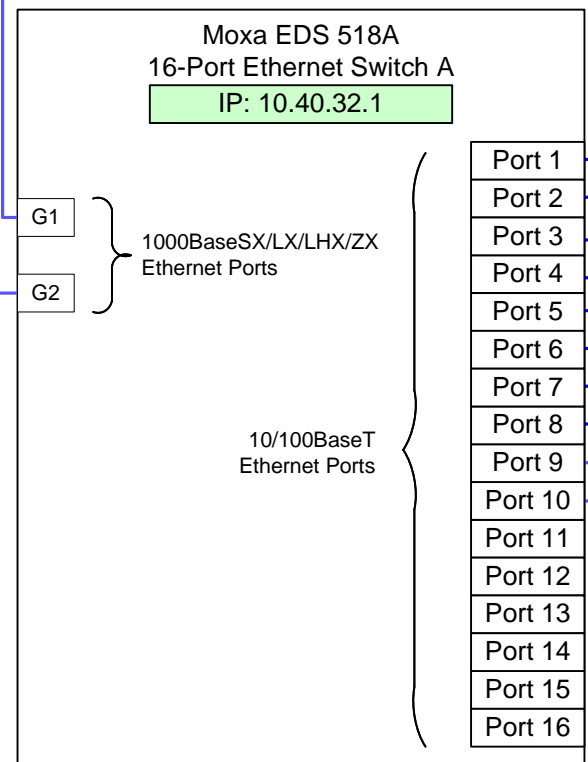
Updated by	Bahar Torabi	Page 60
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J9 – Power f/Shore  
 J10 – Fibre Out Port  
 J11 – Seawater Return

J12 Fibre Ethernet

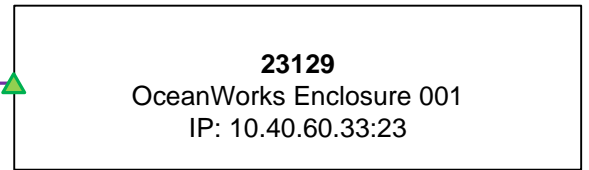
1  
 Saanich Inlet Node  
 DNS Name: sw2955.n1.saa.venus




J1 Node port compromised/damaged. Pin damage on one side of the ODI connector on S30005, which was previously deployed on this port. See OPE-456

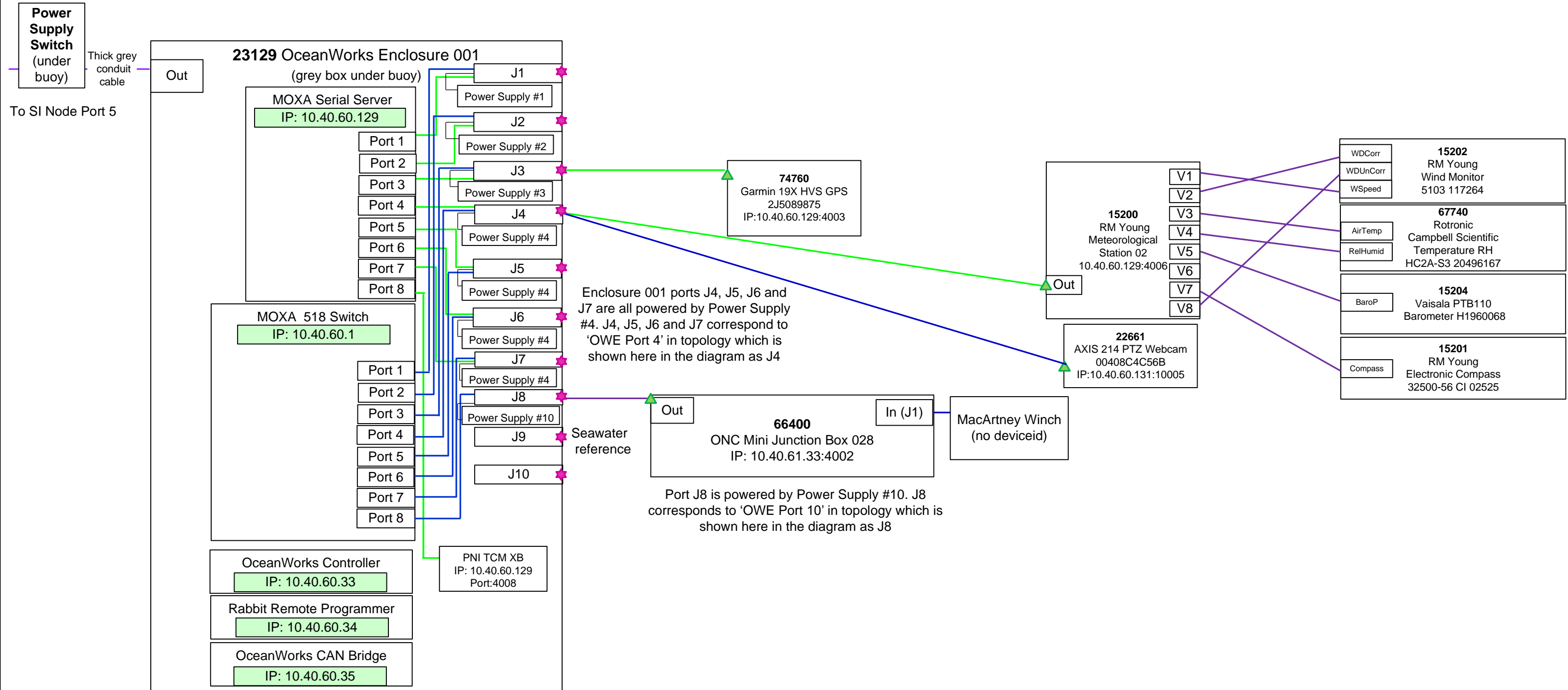
J2 port is compromised. See OPE-567


J3 port is likely compromised, as the damaged ODI plug was mated to J3 during troubleshooting. See OPE-567

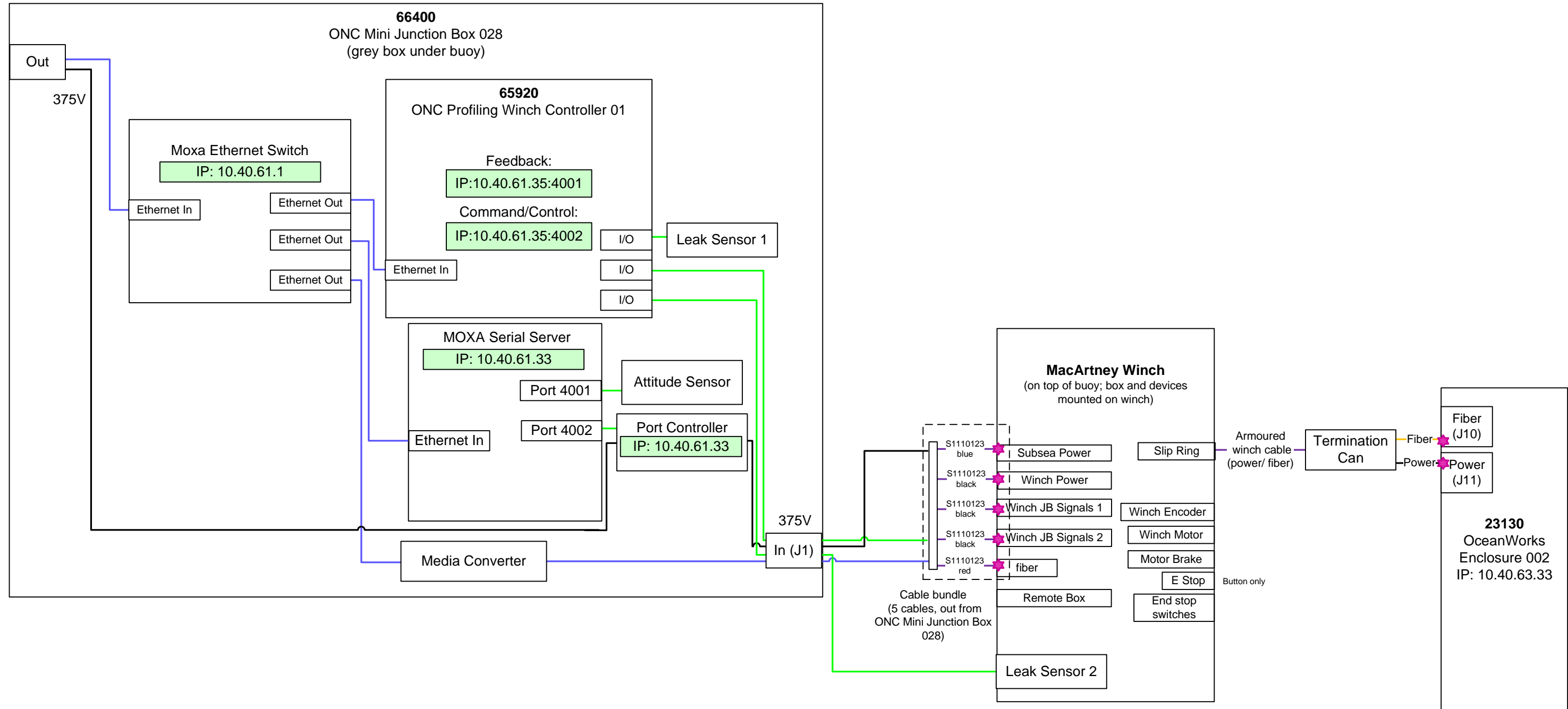



J8 - Failed Hybrid port on SI Node? Was for OTTB

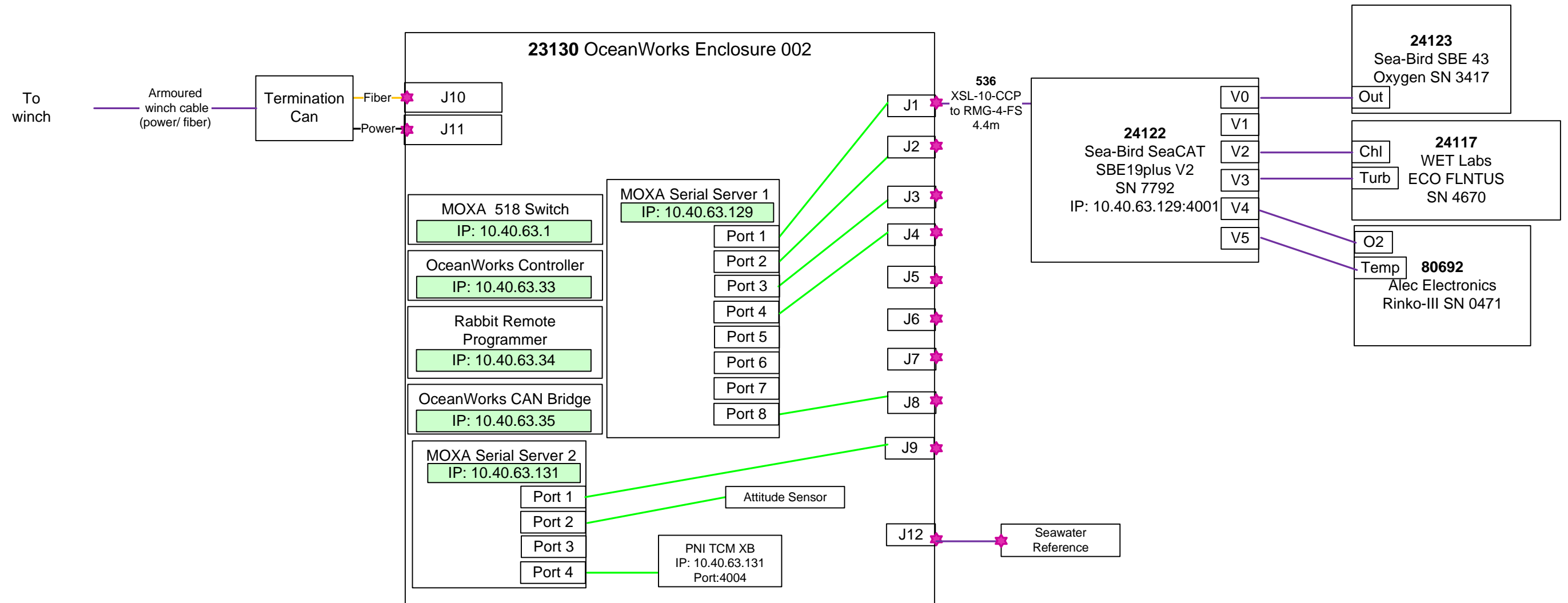
Last Release Date	2024.10.24	Last update to Page	2024.10.23
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	<b>Marine Configuration Diagram</b>		
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 University of Victoria Queenswood Campus #100-2474 Arbutus Road, Victoria, BC V8N 1V8 Tel. (250) 472-5400 Fax (250) 472-5370	<b>Marine Configuration Diagram</b>		
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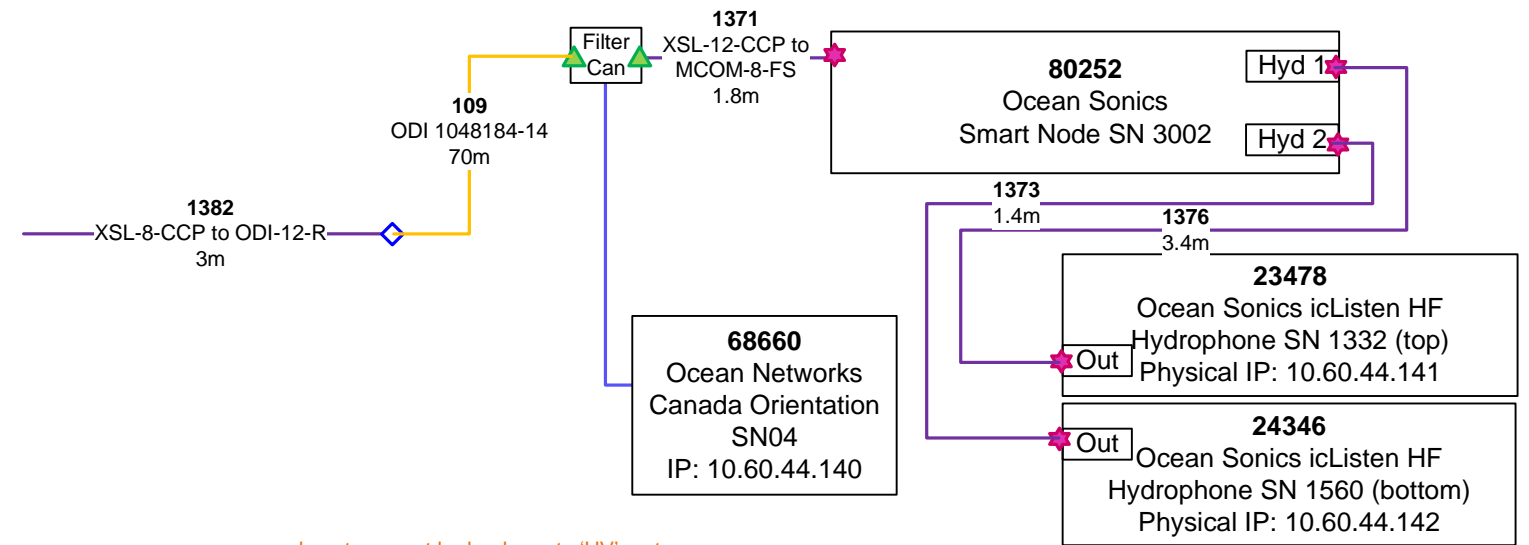


<b>Last Release Date</b>	2024.10.24	<b>Last update to Page</b>	2023.05.19
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<b>Marine Configuration Diagram</b>			
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The hydrophone array was disconnected from J6 LV port of S30006 DI 1210 during 2024-10 CanPac cruise. After the recovery of the upstream SIIM DI 1210, the disconnected hydrophone array was left on site and not recovered



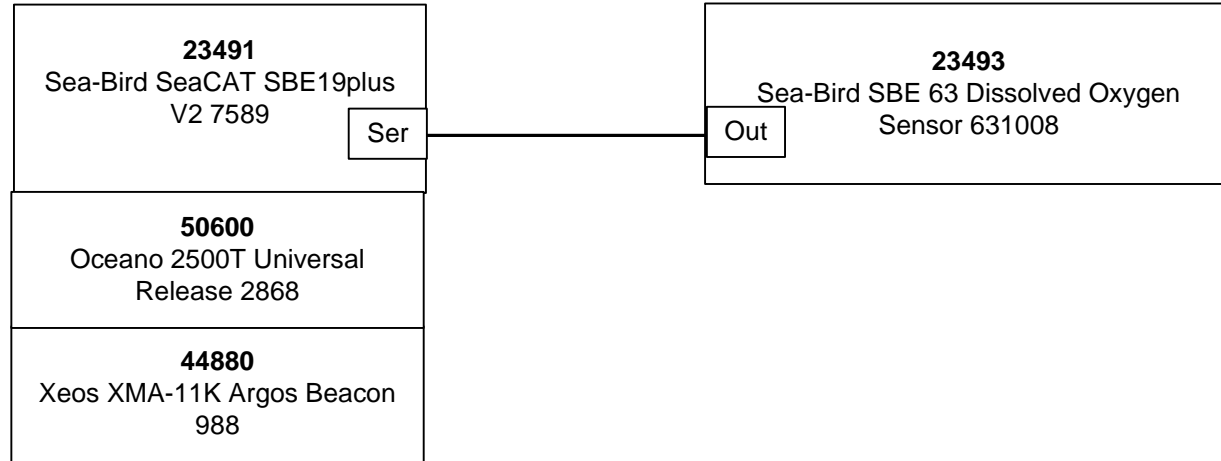
do not connect hydrophone to 'HV' port


Last Release Date	2024.10.24	Last update to Page	2024.04.19
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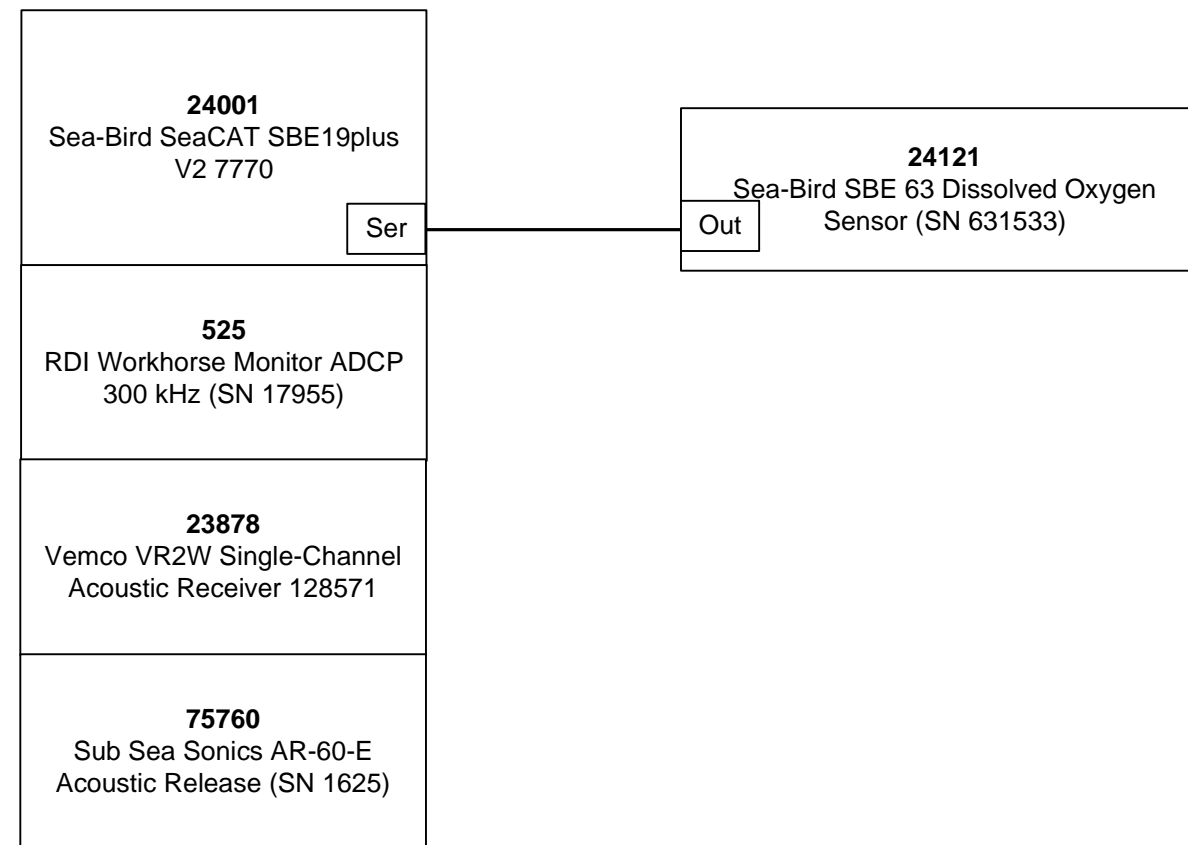
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### Marine Configuration Diagram


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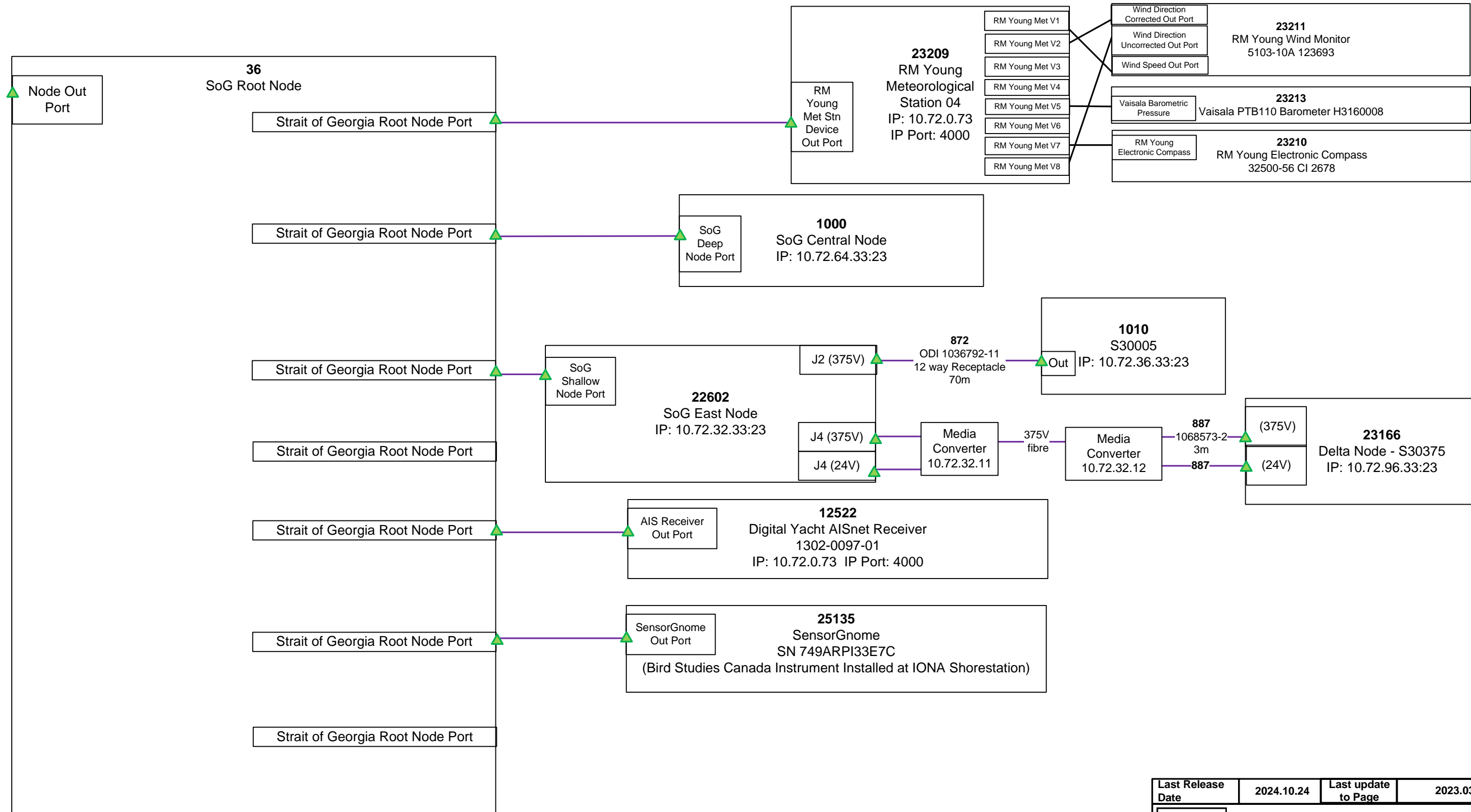
<b>Last Release Date</b>	2024.10.24	<b>Last update to Page</b>	2022.04.26
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	<b>Marine Configuration Diagram</b>		
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Last Release Date	2024.10.24	Last update to Page	2024.03.05
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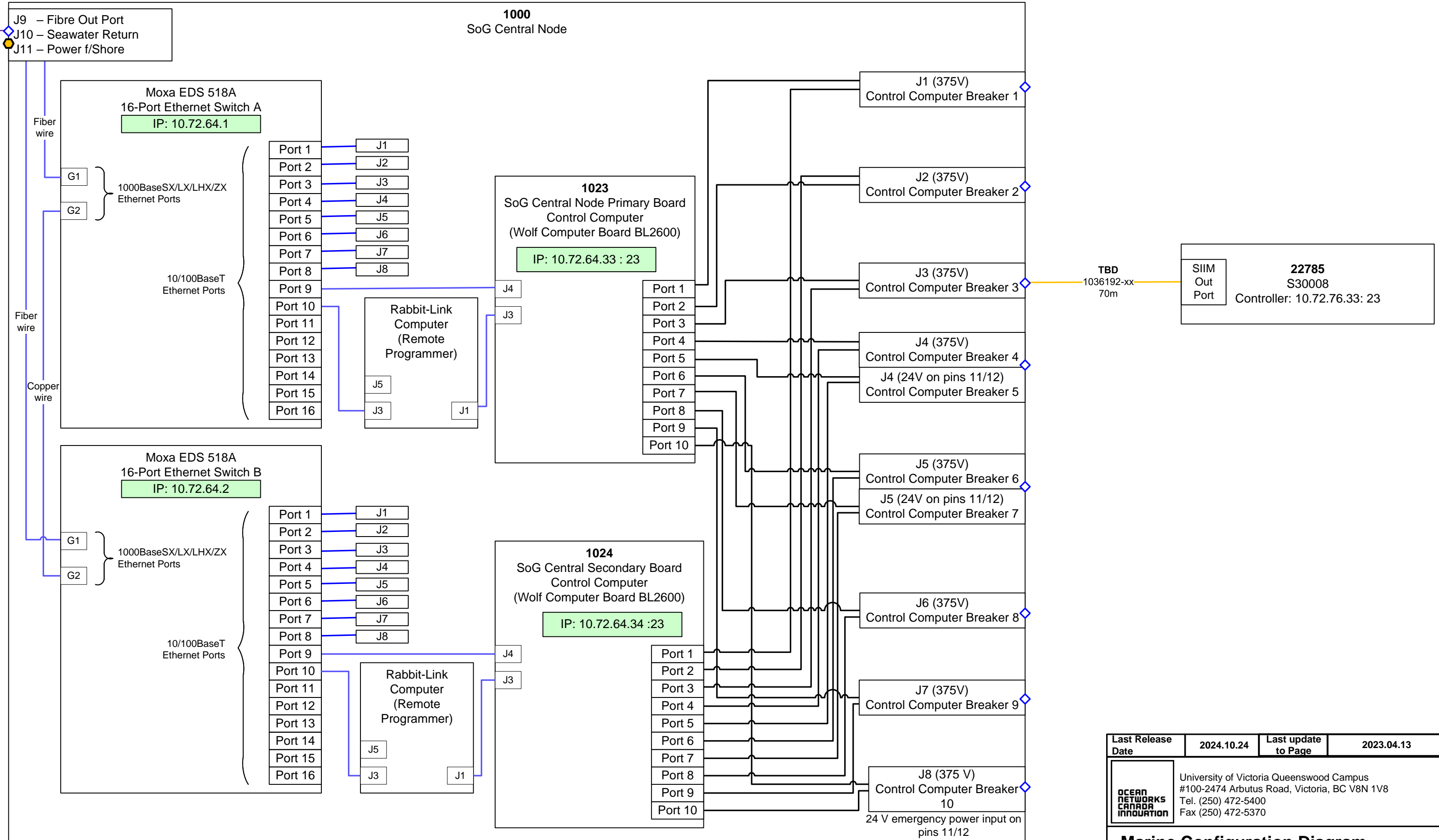
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**Marine Configuration Diagram**




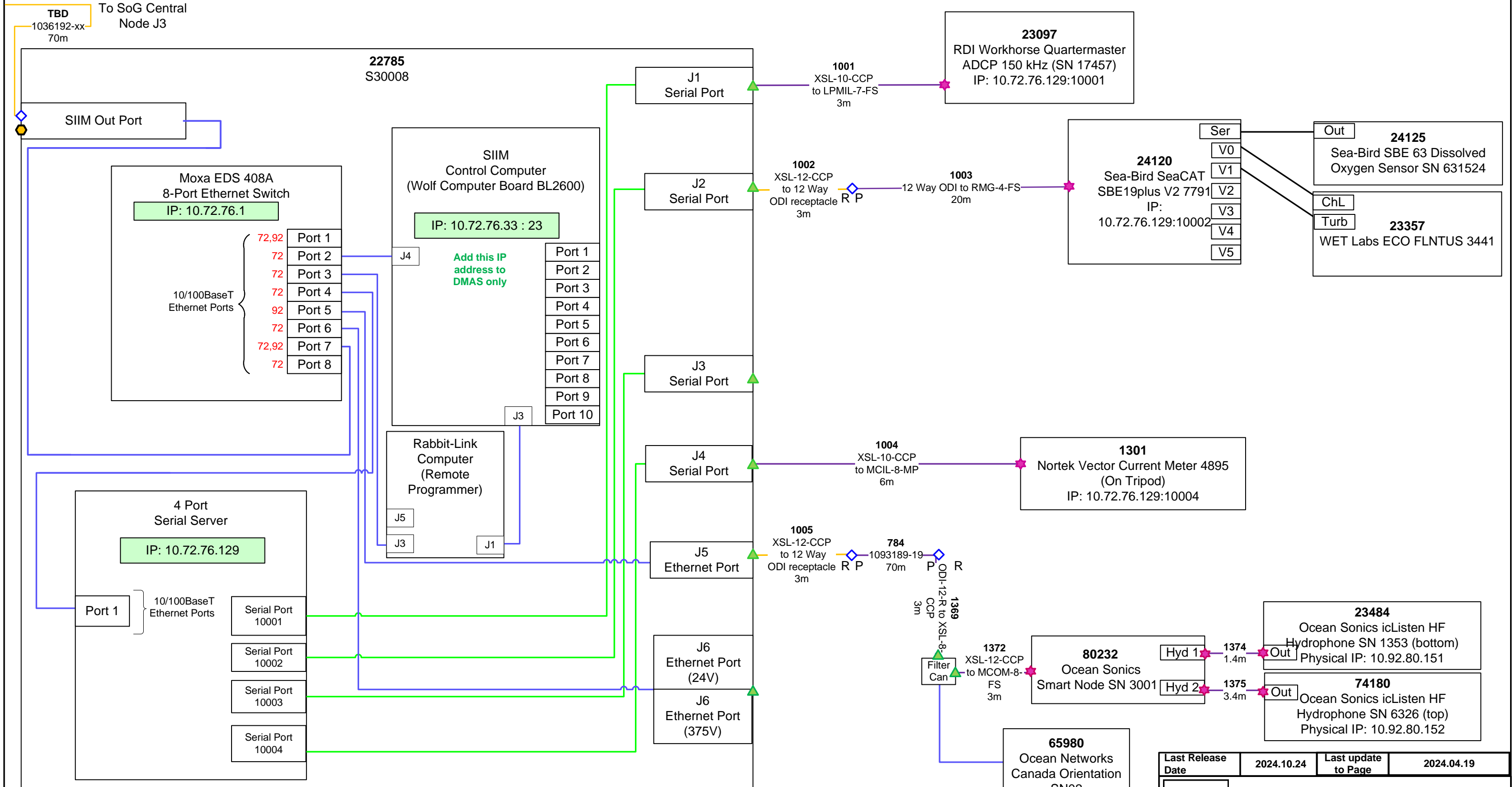
Last Release Date	2024.10.24	Last update to Page	2023.03.23
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	<b>Marine Configuration Diagram</b>		
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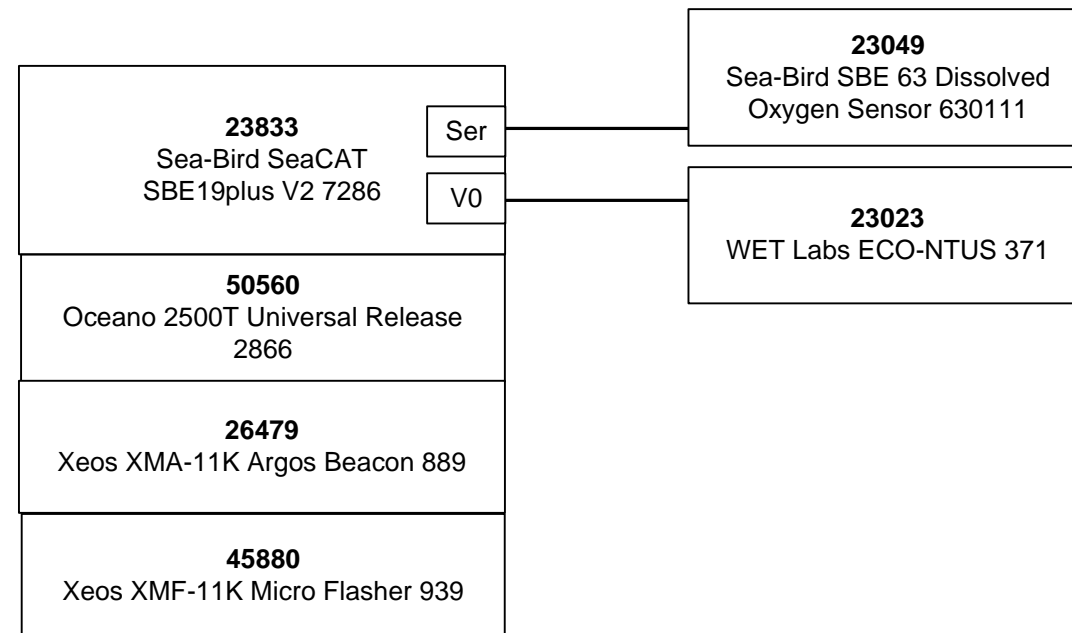


Note: we have never used pins 11/12 on an ODI connector (EN-5493)


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	<b>Marine Configuration Diagram</b>		
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	<b>Marine Configuration Diagram</b>		
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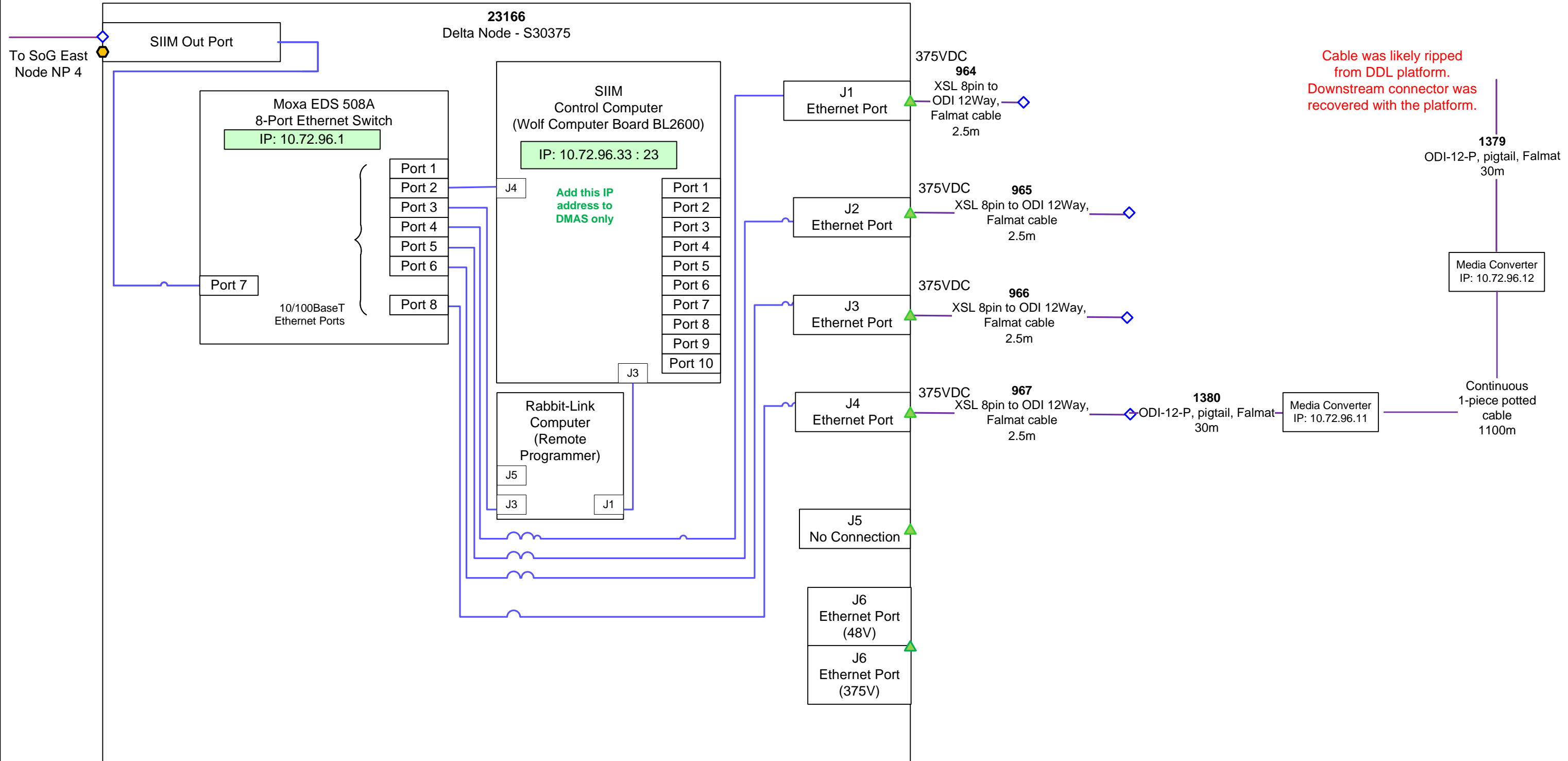



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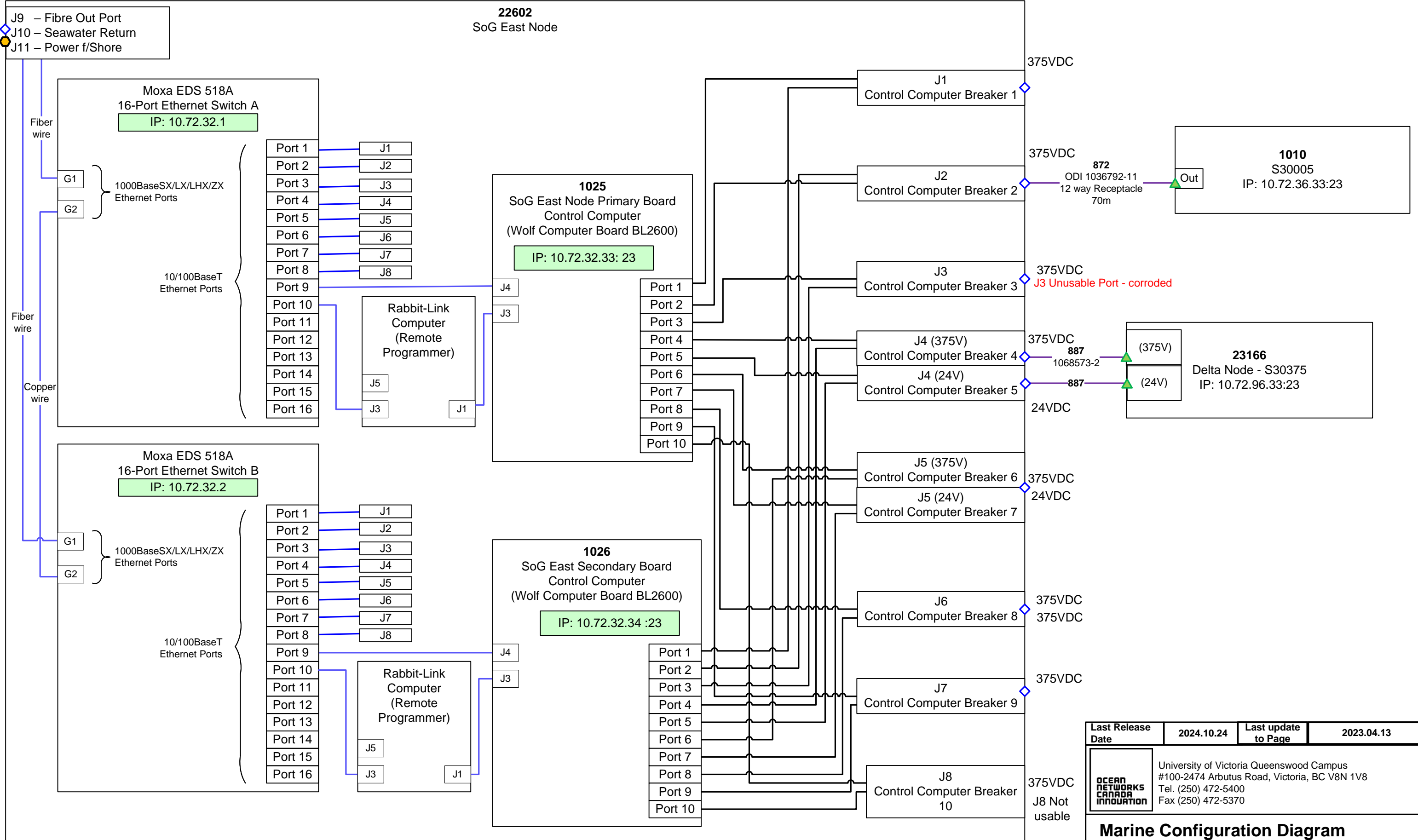
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### Marine Configuration Diagram

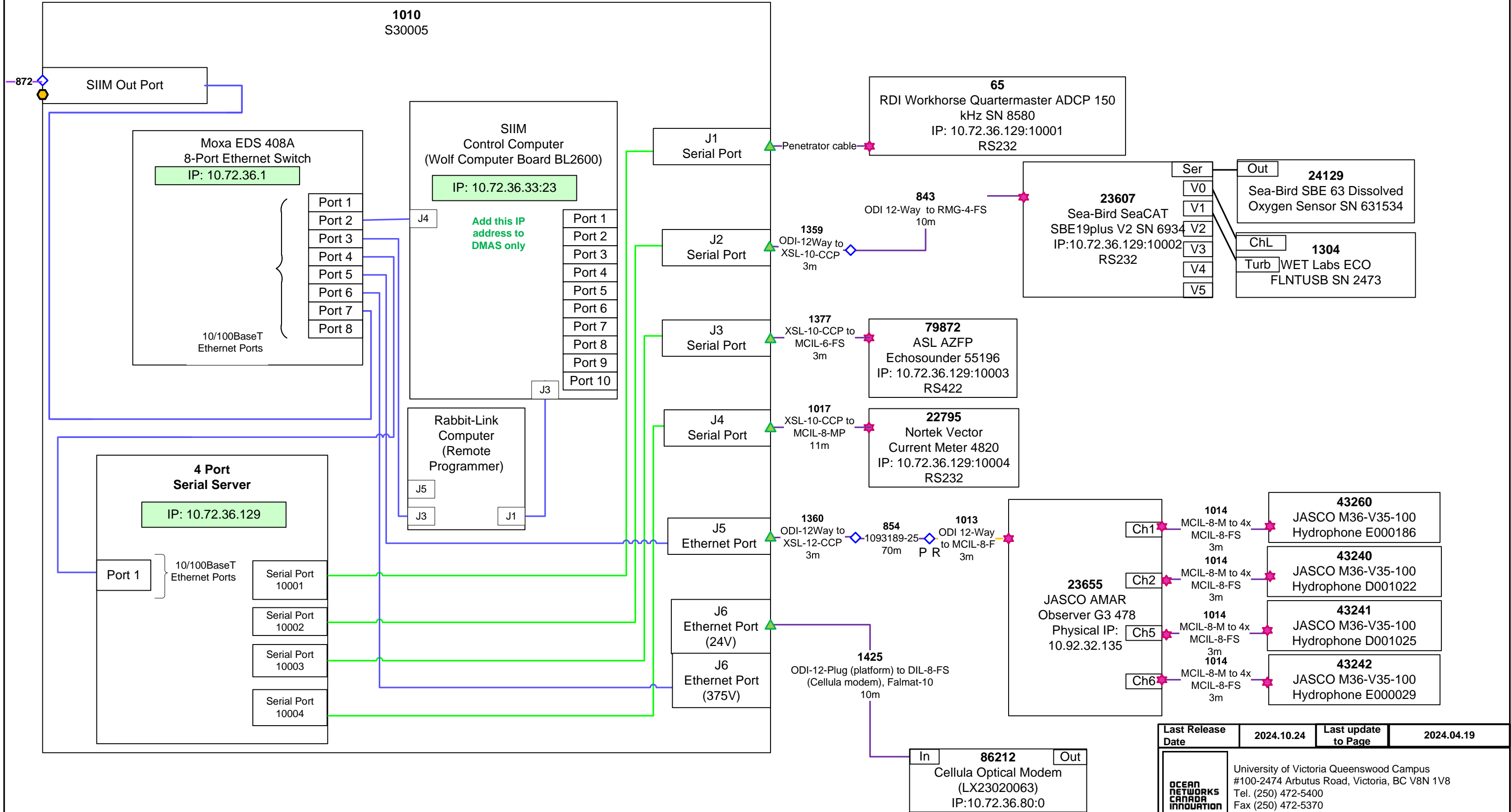



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	<b>Marine Configuration Diagram</b>		
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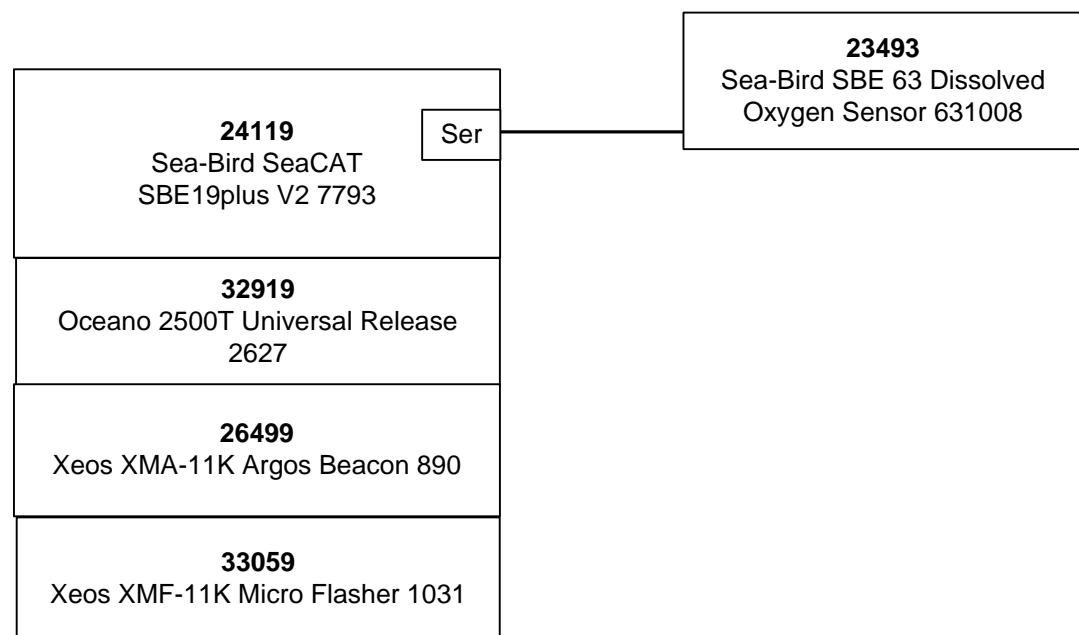
22602  
SoG East Node




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**Marine Configuration Diagram**