

CG2
CD16N2-BK-N-O (7807K37)

CG3
CD16N2-BK-N-O (7807K37)

Conditioning
Tank #1

CG1
CD21NR-BK-N-O (69915K53)

Alpha Wire PN# 6010 SL005
22AWG (x6) (3) Twisted Pairs

Label:
Valves

Vx_O2_POS GREEN
Vx_O2_NEG BLACK
Vx_CO2_POS WHITE
Vx_CO2_NEG BLACK
Vx_N2_POS RED
Vx_N2_NEG BLACK

GREEN
BLACK
WHITE
BLACK
RED
BLACK

V1_O2_POS GREEN
V1_O2_NEG BLACK
V1_CO2_POS WHITE
V1_CO2_NEG BLACK
V1_N2_POS RED
V1_N2_NEG BLACK

22 AWG GREEN
22 AWG BLACK
22 AWG WHITE
22 AWG BLACK
22 AWG RED
22 AWG BLACK

P8
50-57-9402

P9
50-57-9402

P10
50-57-9402

Alpha Wire PN# 5640B2201
22AWG (x3) Twisted Triad

Label:
Cond pH

Cx_PH_ISO_RET BLACK
Cx_PH_ISO_SIG WHITE
Cx_PH_ISO_5V RED

BLACK
WHITE
RED

C1_PH_ISO_RET 1
C1_PH_ISO_SIG 2
C1_PH_ISO_5V 3

J1
37103-A124-00E MB

1 C1_PH_ISO_RET BLACK
2 C1_PH_ISO_SIG RED
3 C1_PH_ISO_5V ORANGE

22 AWG
22 AWG
22 AWG

YELLOW
GREEN
BROWN
BLACK
RED
ORANGE

Label:
C_pH

Alpha Wire PN# 5640B2201
22AWG (x3) Twisted Triad

Label:
Cond O2

Cx_O2_RET BLACK
Cx_O2_SIG WHITE
Cx_O2_5V RED

BLACK
WHITE
RED

C1_O2_RET 1
C1_O2_SIG 2
C1_O2_5V 3

J2
37103-A124-00E MB

1 C1_O2_RET BLACK
2 C1_O2_SIG RED
3 C1_O2_5V ORANGE

22 AWG
22 AWG
22 AWG

YELLOW
GREEN
BROWN
BLACK
RED
ORANGE

Label:
C_O2

Alpha Wire PN# 5640B2201
22AWG (x3) Twisted Triad

Label:
Exp pH

Ex_PH_ISO_RET BLACK
Ex_PH_ISO_SIG WHITE
Ex_PH_ISO_5V RED

BLACK
WHITE
RED

E1_PH_ISO_RET 1
E1_PH_ISO_SIG 2
E1_PH_ISO_5V 3

J3
37103-A124-00E MB

1 E1_PH_ISO_RET BLACK
2 E1_PH_ISO_SIG RED
3 E1_PH_ISO_5V ORANGE

22 AWG
22 AWG
22 AWG

YELLOW
GREEN
BROWN
BLACK
RED
ORANGE

Label:
E_pH

Alpha Wire PN# 5640B2201
22AWG (x3) Twisted Triad

Label:
Exp O2

Ex_O2_RET BLACK
Ex_O2_SIG WHITE
Ex_O2_5V RED

BLACK
WHITE
RED

E1_O2_RET 1
E1_O2_SIG 2
E1_O2_5V 3

J4
37103-A124-00E MB

1 E1_O2_RET BLACK
2 E1_O2_SIG RED
3 E1_O2_5V ORANGE

22 AWG
22 AWG
22 AWG

YELLOW
GREEN
BROWN
BLACK
RED
ORANGE

Label:
E_O2

Alpha Wire PN# 6010 SL005
22AWG (x6) (3) Twisted Pairs

Label:
RTDs

Cx_T_SIG GREEN
Cx_T_RET BLACK
Ex_T_SIG WHITE
Ex_T_RET BLACK
Bx_T_SIG RED
Bx_T_RET BLACK

GREEN
BLACK
WHITE
BLACK
RED
BLACK

C1_T_SIG 1
C1_T_RET 2
E1_T_SIG 1
E1_T_RET 2
B1_T_SIG 1
B1_T_RET 2

P5
37303-A124-00E MB

3 C1_T_RET
3 E1_T_RET
3 B1_T_RET

J5
37103-3101-0000 FL 100

1 C1_T_SIG
2 C1_T_RET
3 E1_T_SIG
3 E1_T_RET
3 B1_T_SIG
3 B1_T_RET

24 AWG
24 AWG
24 AWG
24 AWG
24 AWG
24 AWG

RED
BLACK
RED
BLACK
RED
BLACK

Label:
C_T

Label:
E_T

Label:
B_T

CG4
CD07AR-BK-N-O (69915K46)

Bath
Tank #1

CG5
CD16N2-BK-N-O (7807K37)

Experimental
Tank #1

CG6
CD16N2-BK-N-O (7807K37)

Conditioning
Tank #1



P1-P7



<- Not Used

PN# 37303-A124-00E MB
3-Pos Receptacle
20-24 AWG

PN# 37303-3101-000 FL 100
3-Pos Receptacle
24-26 AWG

Notes:
All Shields are No Connects. Clip them off to prevent shorting.
P1-P7: Length of exposed wires from cable bundles ~6 inches.
P8-P10: Length of exposed wires from cable bundles ~8 inches.
All labels placed on cable bundles (slip on type).



J1-J4

PN# 37103-A124-00E MB
3-Pos Plug
20-24 AWG



J5-J7

PN# 37103-3101-000 FL 100
3-Pos Plug
24-26 AWG

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Title Upwelling Simulator Tank Junction Box
Size C
Engineer Chad Kacy
Layout <Layout Eng.>
Filename <Filename>
Date: Monday, October 17, 2016
Sheet 1 of 1
Rev A