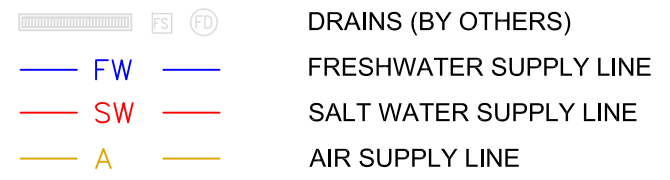


**KEYED NOTES, SHOWN:** (X)

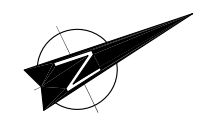
- 1 - PAIRED 12" WIDE FIBERGLASS UNI-STRUT LADDERS. BY OTHERS. EXTEND FW, SW & A VERTICALLY ON UNI-STRUT LADDER TO LIFE SUPPORT SYSTEM (LSS).
- 2 - CAPACITY AND DISTRIBUTION OF SW, FW, & A FOR FUTURE PHASES SHOULD BE INCLUDED IN PHASE 1 PROCUREMENT 1 PRICING
- 3 - EPOXY COATED 316L STAINLESS TRAPEZE LOOP SUPPORT BY OTHERS
- 4 - EXTEND FW, SW & A VERTICALLY ON WALL TO LSS
- 5 - COMBINED SAFETY SHOWER & EYE WASH; SEE PLUMBING

**EQUIPMENT SCHEDULE, SHOWN:** (X)

- 1 - FRP RACEWAY TANK
- 2 - CENTRAL WATER SOURCE BOILER (BY OTHERS, ALT 1)
- 3 - PUMP STAND ASSEMBLY WITH SUMP
- 4 - BIOFILTER
- 5 - BACK-WASHING FILTER
- 6 - BEAD FILTER
- 7 - PROTEIN SKIMMER
- 8 - CENTRAL WATER COOLED CHILLER (BY OTHERS, ALT 1)
- 9 - LARGE CHEMICAL DOSING SYSTEM
- 10 - 210 GAL POLYETHYLENE FISH TANK
- 11 - LARGE AQUARIA HOUSING: 11A - BASE BID, 11B - ALT 2, 11C - ALT 3, 11D/11E - PHASE 3 FUTURE
- 12 - SHOWCASE AQUARIUM
- 13 - 1000 GAL STORAGE TANK
- 14 - LARGE AQUARIA HOUSING
- 15 - ZEBRAFISH RACK - 15A BASE BID; 15B PHASE 3 FUTURE
- 16 - COMPACT CHEMICAL DOSING SYSTEM
- 17 - 10HP REGENERATIVE AIR BLOWER
- 18 - SELF-CONTAINED FILTRATION SYSTEM - W/ SUMP, PUMP, BIOFILTER, UV STERILIZER, PROTEIN SKIMMER, HEATER
- 19 - REVERSE OSMOSIS SYSTEM
- 20 - CORAL PROPAGATION RACK (ALT 4)
- 21 - HIGH CAPACITY SALT DOSING
- 22 - BIO-MECHANICAL FILTER, WITH BACKWASH
- 23 - HEATER CONTROLLER
- 24 - SHOW TANK HEAT EXCHANGER (PHASE 2)
- 25 - SHOW TANK CHILLER (PHASE 2)
- 26 - HATCHING: 26A-ARTEMIA, 26B-JAR STATION, 26C-ROTIFIER
- 27 - WATER TO WATER HEAT EXCHANGER (ALT 1)
- 28 - UV STERILIZATION
- 29 - MONITORING SYSTEM
- 30 - OZONE GENERATOR
- 31 - OXYGEN DEWAR WITH REGULATOR (OFCI)
- 32 - SUBMERSIBLE TUBE HTR (NOT REQ'D IF ALT 1 ACCEPTED)
- 33 - CHILLER (NOT REQ'D IF ALTERNATE 1 ACCEPTED)
- 34 - 200 GAL FISH TANK (EXISTING; RELOCATED BY OTHERS)
- 35 - IN-LINE HEATER
- 36 - DIRECT DRIVE PRIMING PUMP
- 37 - VIBRATORY FEEDER
- 38 - 300 GALLON SUMP
- 39 - DISTRIBUTION PUMPS
- 40 - 50 GALLON FISH TANK



SCALE: 3/32" = 1'-0"  
 0' 4' 8' 12' 16'



**Project Title:**  
 COLLABORATIVE RESEARCH FACILITY  
 PHASE I EQUIPMENT

**Location:**  
 McLAFFERTY ANNEX

**For The:**  
 SOUTHERN ILLINOIS UNIVERSITY  
 CARBONDALE

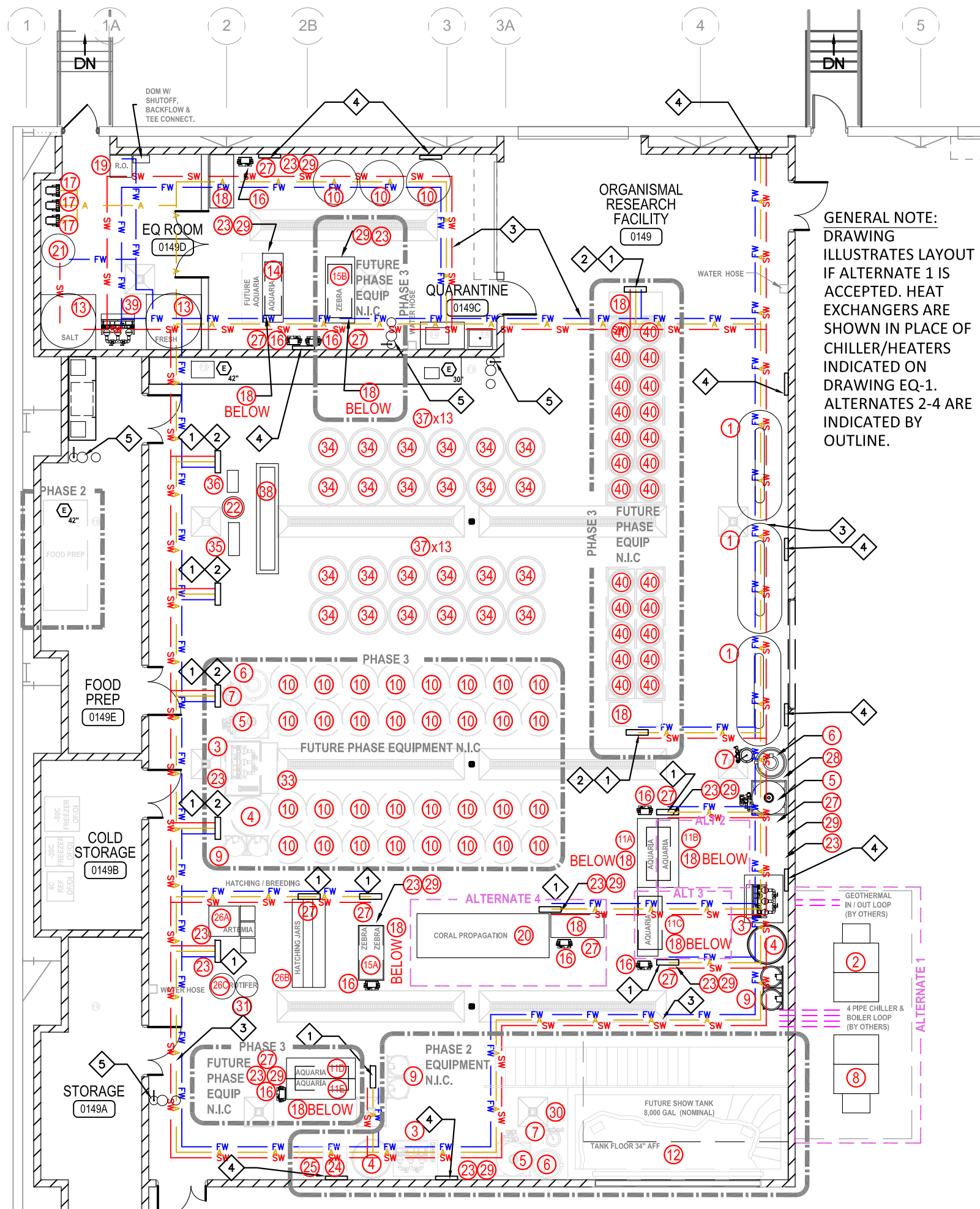
**Drawn By:** MPW

**Reviewed By:** AKT

JUL. 16, 2014

**Sheet Title:**  
 EQUIPMENT PLAN  
 PHASE I -  
 PROCUREMENT I

**Sheet No.:**  
**EQ-1**



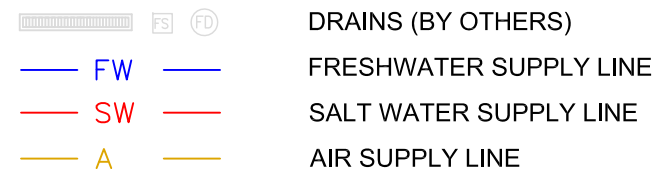
**GENERAL NOTE:**  
DRAWING ILLUSTRATES LAYOUT IF ALTERNATE 1 IS ACCEPTED. HEAT EXCHANGERS ARE SHOWN IN PLACE OF CHILLER/HEATERS INDICATED ON DRAWING EQ-1. ALTERNATES 2-4 ARE INDICATED BY OUTLINE.

**KEYED NOTES, SHOWN: (X)**

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0' 4' 8' 12' 16'



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**Location:**  
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CARBONDALE

**Drawn By:** MPW  
**Reviewed By:** AKT  
JUL. 16, 2014

**Sheet Title:**  
EQUIPMENT PLAN  
PHASE 1 - PROCUREMENT 1  
WITH ALTERNATES

**Sheet No.:**  
**EQ-2**