2016
KENTUCKY RIVER
MINE RESCUE CONTEST
DAY 1

MH

Judges Instructions

BEFORE CLOCK STARTS

Show the pump to the team and explain that the pump is controlled by the command center. The rope attached is the power cable and discharge line and as they move the pump the rope will feed off to show the location and routing of the power cable and discharge line.

CHECKLIST AFTER CLOCK STOPPED

1. GET TEAM MAP AND BO MAP MAKE SURE BOTH ARE MARKED AND NUMBERED.
2. GET VISIO SD CARD IF TEAM IS USING IT, MAKE SURE THEY HAVE SAVED INFORMATION AND PUT IT IN TEAM NUMBERED ENVELOPE.
3. TELL TEAM TO LEAVE ALL CONTEST MATERIAL IN FAB.
4. FILL OUT FINAL MAP HAVE TEAM INITIAL.
5. GET TIME FROM TEAM TIME CLOCK AND HAVE CAPTAIN CONFIRM TIME.
6. BE SURE TO PICK UP TEAM PACKET.

KENTUCKY RIVER MINE RESCUE CONTEST
SUPERINTENDENT STATEMENT DAY 1 AND DAY 2
JUNE 15 AND 16, 2016

Thank you for coming to help us. You are located at the fresh air base of the Hazco #1 mine. This is a very large mine with multiple working sections and interconnected fans and air courses.

This morning 83 miners entered the mine. Around 9:00 am this morning the incident occurred. There was a loud rush of air out the portals and the CO system alarmed. The Responsible Person tried to contact the miners underground but was not able to contact anyone. We reported this to MSHA and contacted mine rescue teams. At 10:30 am fifty miners were able to escape. The other 33 miners are unaccounted for. There are multiple mine rescue teams working different areas of the mine at the same time you will be working.

A mine rescue team was able to explore to the area inby the area you will be exploring. They were stopped by unsafe roof in the number 1 entry, water roofed in number 2 entry and caved in number 3 entry. The team was able to setup a safe return and intake inby that you can use to ventilate through number 1 and 2 entries. The fan ventilating this area is exhausting and will pull air through the area you will be exploring if you do not maintain an airlock or you can stall both fans if they are pulling or pushing against each other. The area is currently air-locked inby the fresh air base.

The air is currently going across the fresh air base and the return has been established so you can send smoke, and any

gases out and they will not travel over any ignition source or unexplored area. The fan is currently blowing.

The mine has a history of bad roof, water and methane. The mine maps are up to date. We have a competent life line person to give and take life line signals if necessary.

Please find the 5 missing miners that were in this area of the mine that you will be exploring. Thank you and good luck.

PROBLEM DAY 1

BOTH FANS CAN BE TURNED OFF, AND REVERSED BUT CAN NOT BE STALLED DUE TO CAUSING DAMAGE TO THE FAN.

TO PREVENT STALLING ONE FAN HAS TO BE BLOWING AND THE OTHER EXHAUSTING WHEN USING BOTH FANS.

THE RETURN AND INTAKE OUTBY THE FAB AND INBY AREAS HAVE BEEN EXPLORED AND IS SAFE TO VENTILATE THROUGH.

ACCOUNT FOR ALL 5 MISSING MINERS THAT ARE IN THE AREA YOU ARE EXPLORING AND BRING SURVIVORS TO THE FAB

EXPLORE ALL AREAS OF THE MINE THAT CAN BE DONE SAFELY

PATIENT STATEMENT 1

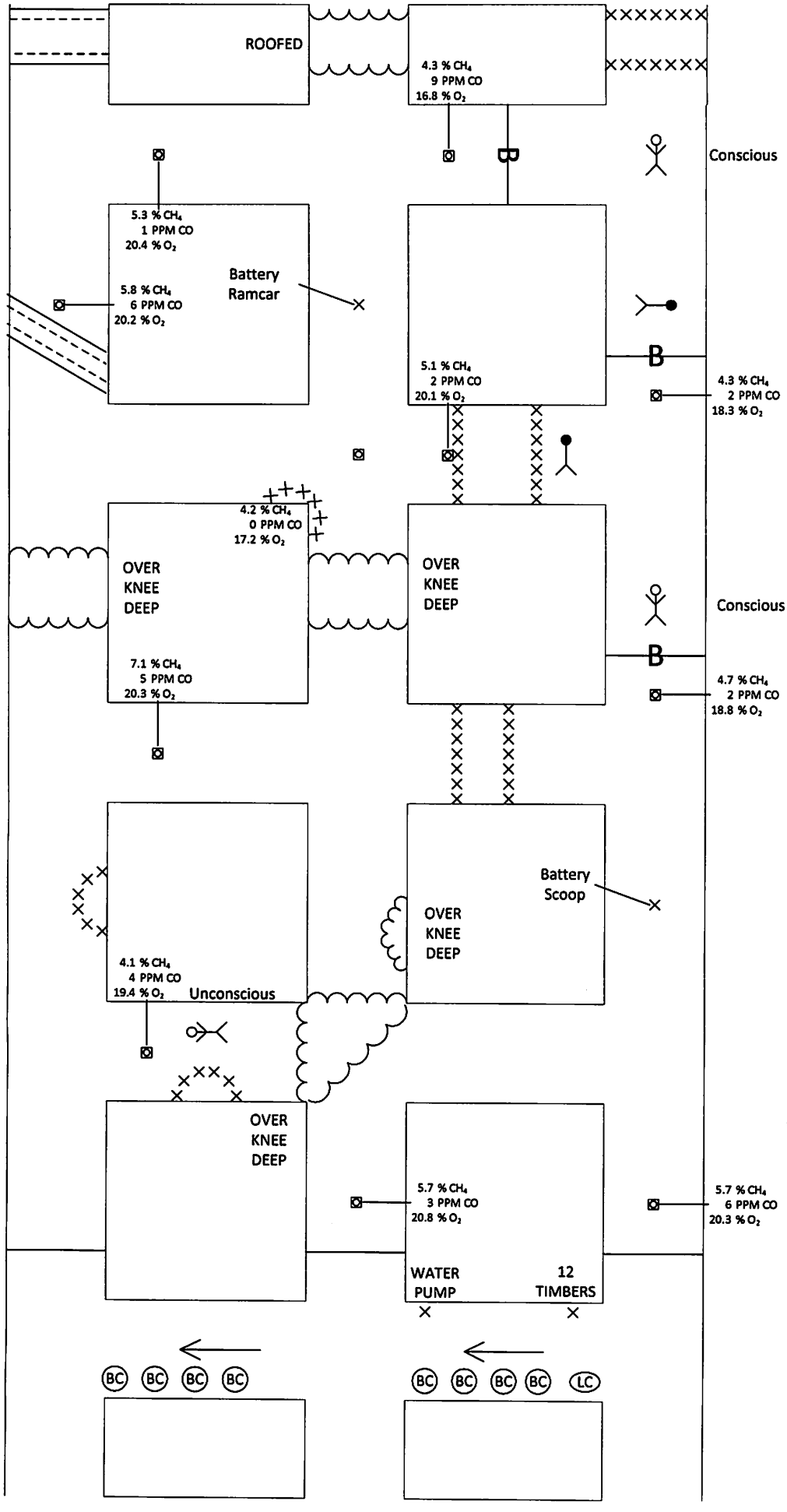
HELP!! GET ME OUT OF HERE.

PATIENT STATEMENT 2

HELP!! GET ME OUT OF HERE.

I AM GETTING DIZZY.

KENTUCKY RIVER 2016 DAY 1 PROBLEM MAP



KENTUCKY RIVER MINE RESCUE CONTEST DAY 1
JUDGES BRIEFING

Number 1 entry GT DI Airlock GT inby stopping DI
Number 2 entry GT DI Airlock GT inby stopping DI
Number 3 entry GT DI Airlock GT inby stopping DI
The teams can enter any entry they want to. We are setting this up as if they are entering number 3 entry first and you use extent of gases map. If they go up number 2 before number 3 you use extent of gases #2.

Team Stop before breaching stopping.
Team Check

Team Stop 1
Crosscut between 2 & 3 GT
Inby GT

Team Stop 2
Diagonal water GT DI
Outby GT DI at stopping

Team Stop 3
Crosscut between 2 & 3 GT DI RR
Inby GT DI at barricade
Patient 1 reads statement

Team Stop 4
Inby GT RR ZIG-ZAG at caved
Crosscut between 1 & 2 RR ZIG-ZAG at caved, touch patient, assess, DI finish RR
GT DI at water take patient to FAB under oxygen

Team Stop 5
Inby GT DI
Crosscut between 1 & 2 GT

Team Stop 6
Inby GT DI
Outby GT DI
Crosscut between 2 & 3 GT DI RR

Pump water 1
Ventilation 1
Pump water 2
Ventilation 2
Ventilation 3

Enter barricade GT
Touch patient assess most teams will take to FAB.

Team Stop 7
Crosscut between 2 & 3 body touch DI
GT DI RR at caved
Inby GT DI at barricade
Patient 2 reads statement.

Pump water 3

Team Stop 8
RR at caved ZIG-ZAG
GT Inby
Crosscut between 2 & 3 GT DI RR at caved
Crosscut between 1 & 2 GT

Team Stop 9
Inby GT DI RR at unsafe roof
Outby GT DI

Team Stop 10
GT DI at barricade
Patient 2 reads statement
Crosscut between 1 & 2 GT
Inby GT DI

Team Stop 11
Outby GT DI RR
Inby GT DI RR

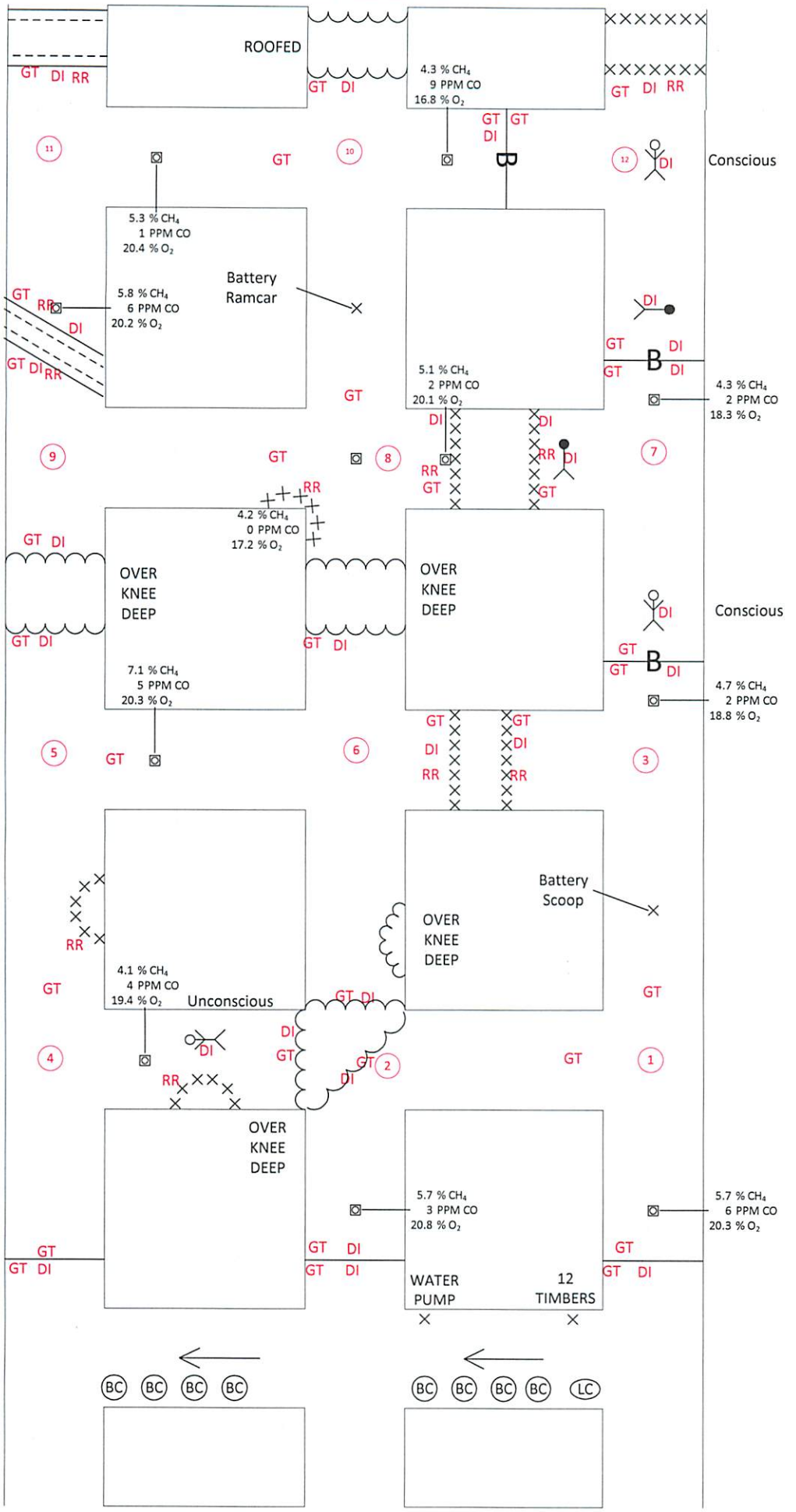
Pump water 4
Ventilation 4

Enter barricade GT

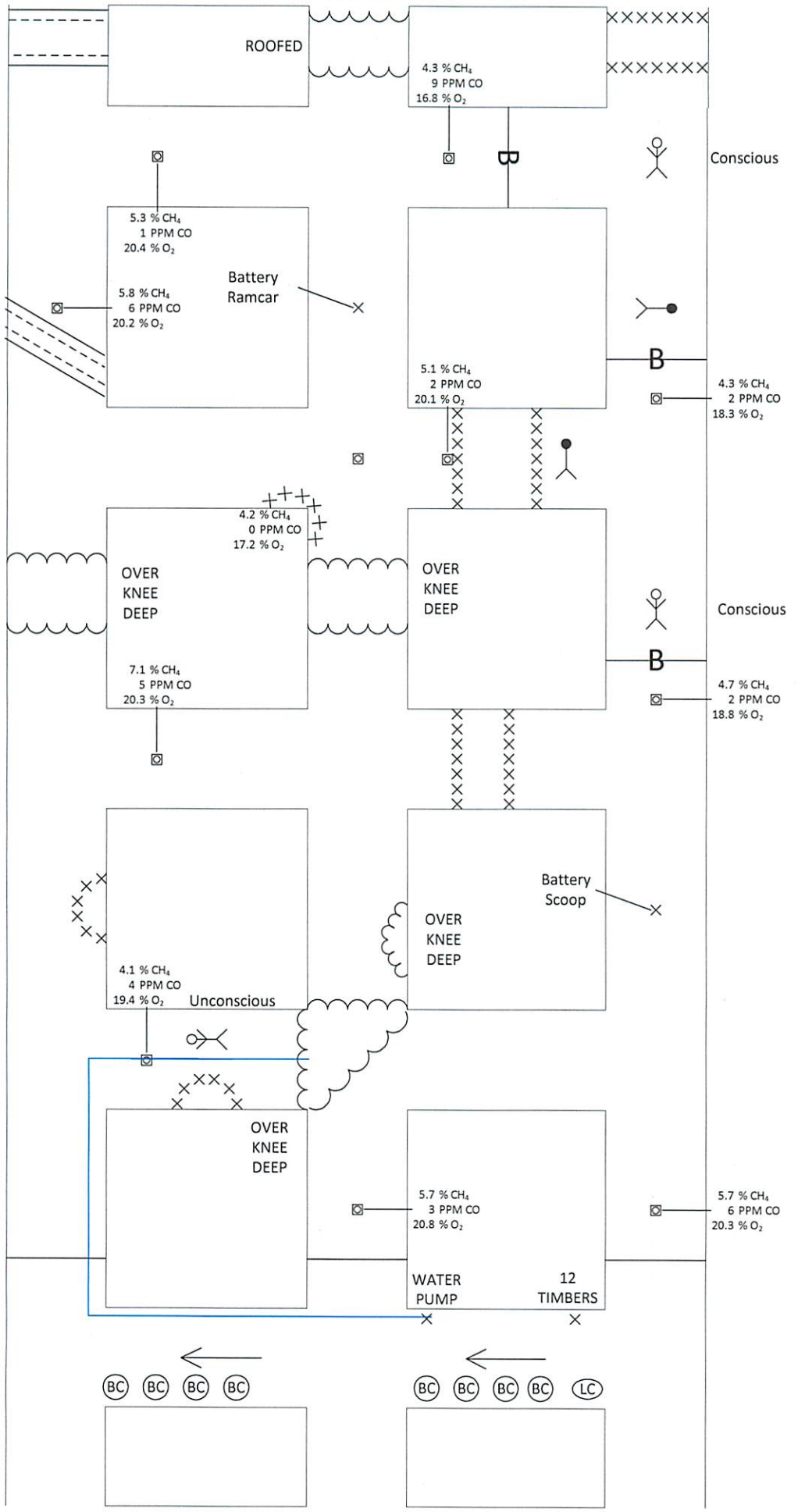
Team Stop 12
Patient touch asses DI
Inby GT DI RR
Outby body touch DI GT DI at barricade
Take patient to FAB

STOP CLOCK

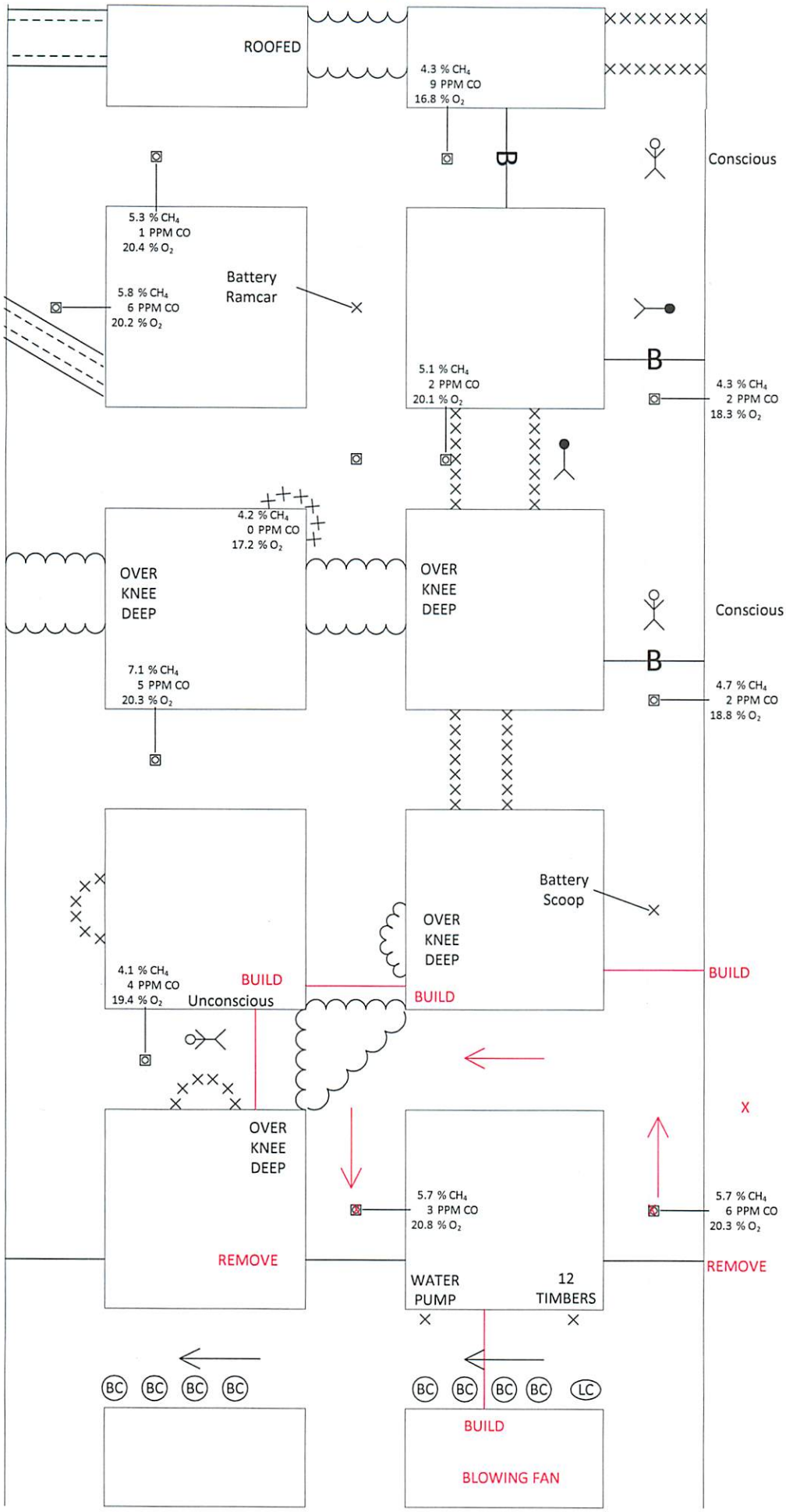
KENTUCKY RIVER 2016 DAY 1 TEAM STOP



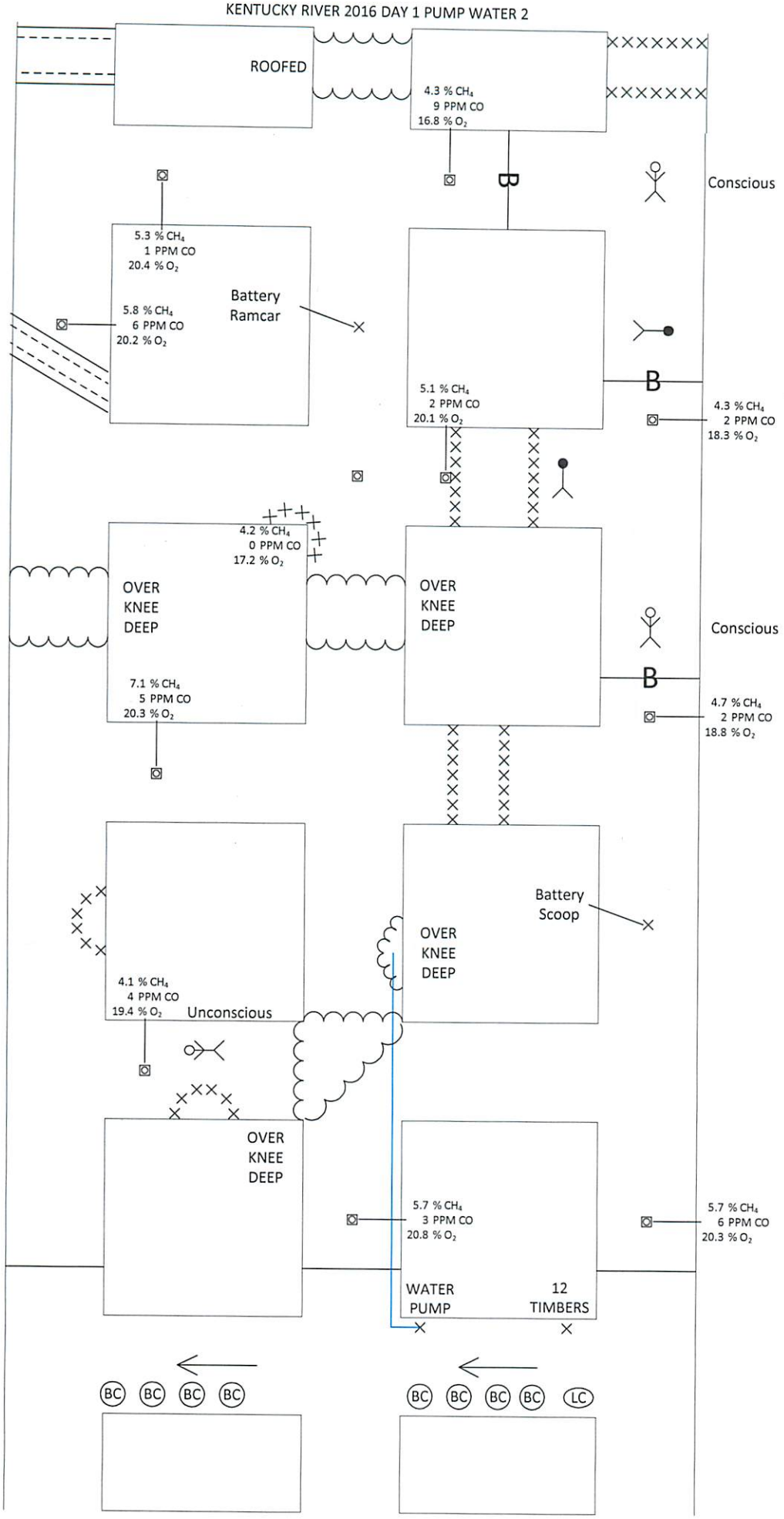
KENTUCKY RIVER 2016 DAY 1 PUMP WATER 1



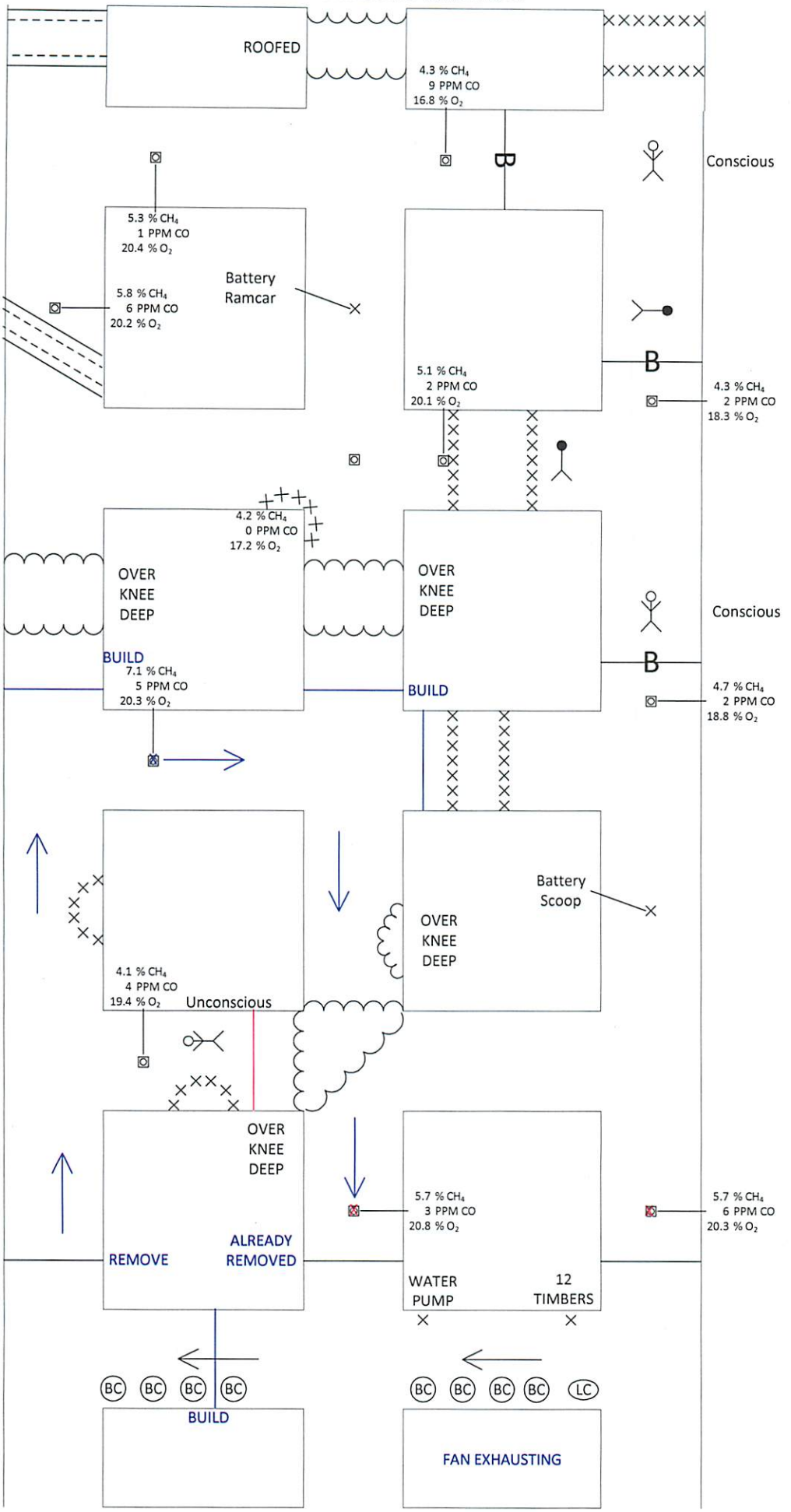
KENTUCKY RIVER 2016 DAY 1 VENTILATION 1



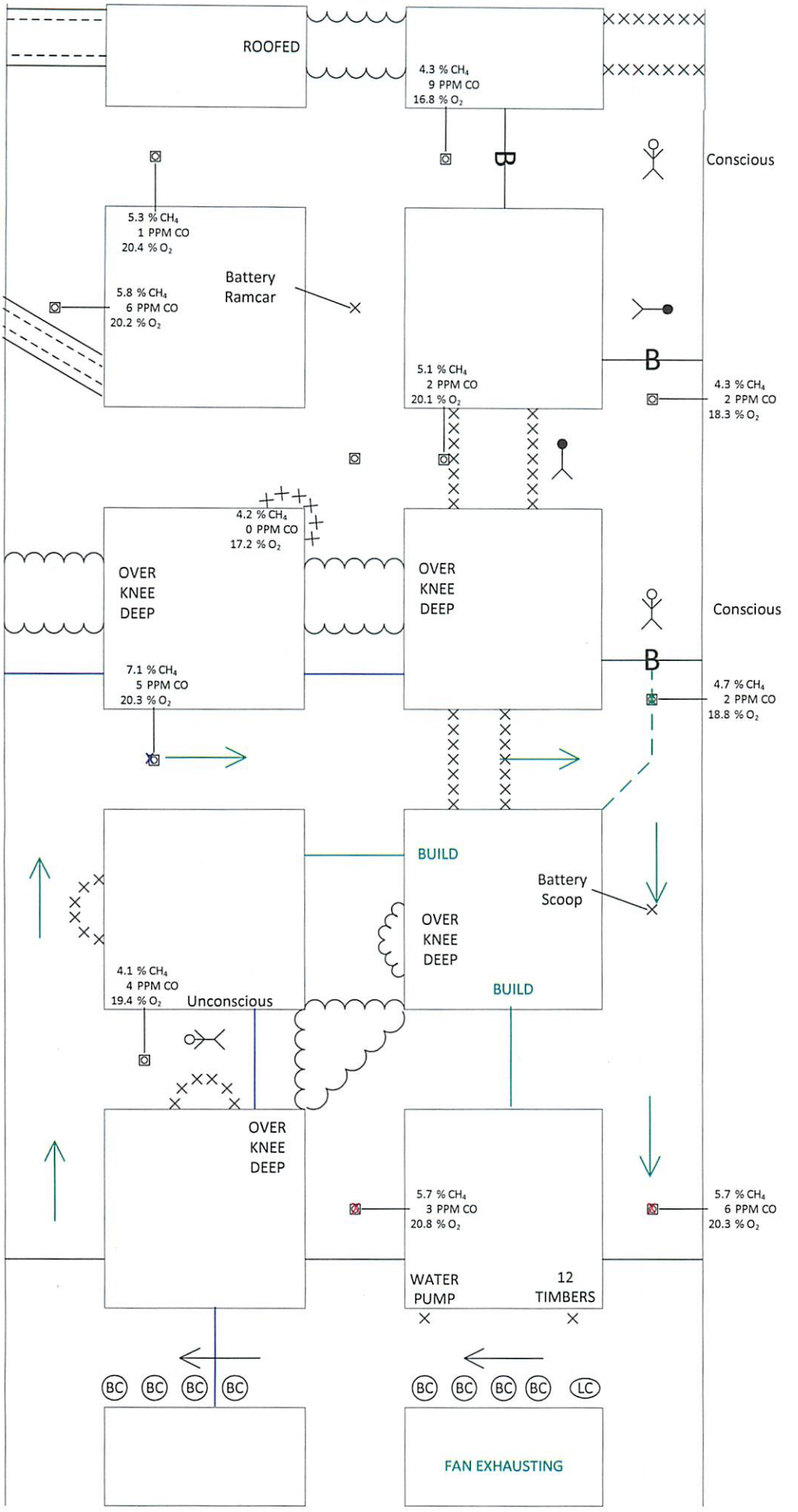
KENTUCKY RIVER 2016 DAY 1 PUMP WATER 2



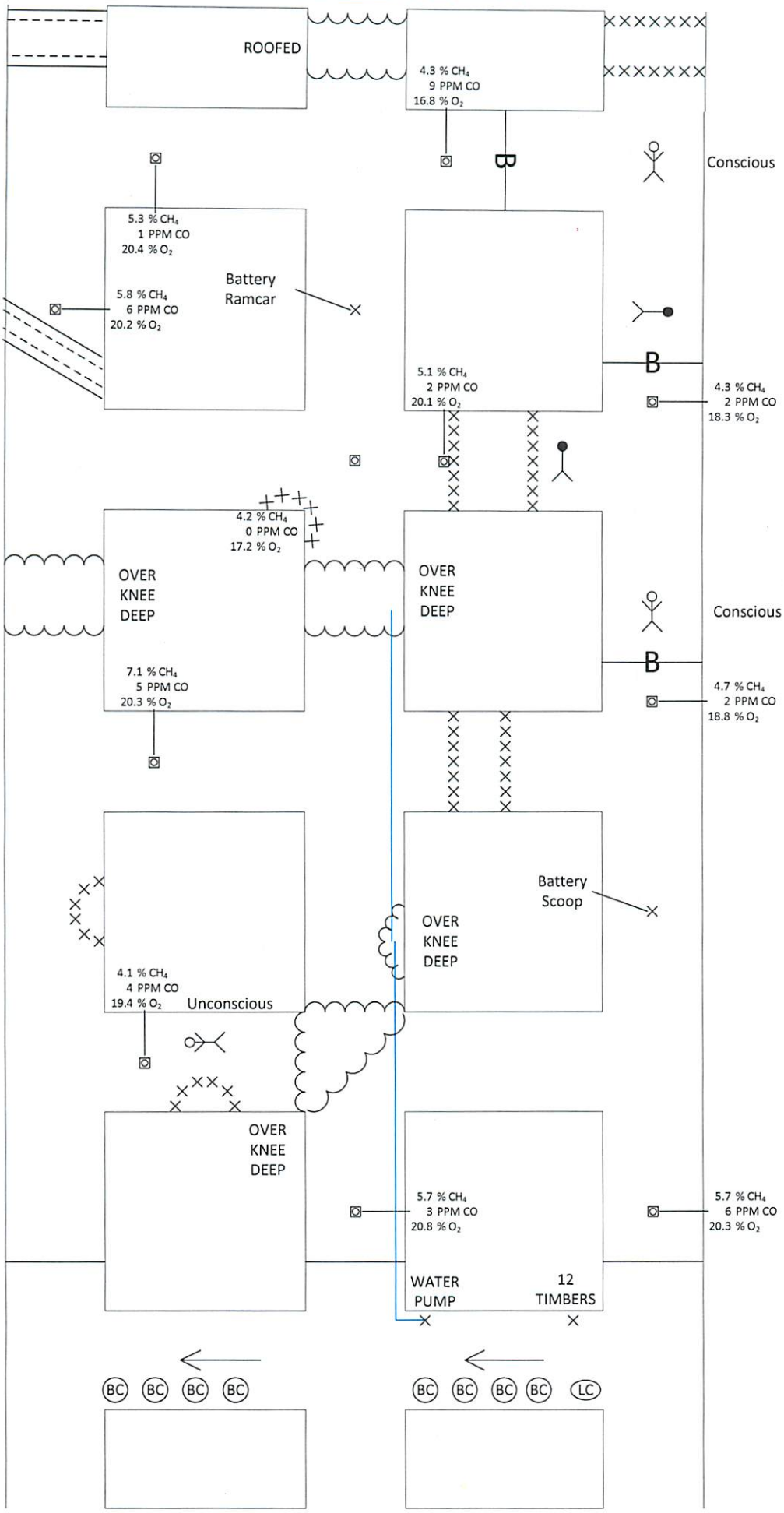
KENTUCKY RIVER 2016 DAY 1 VENTILATION 2



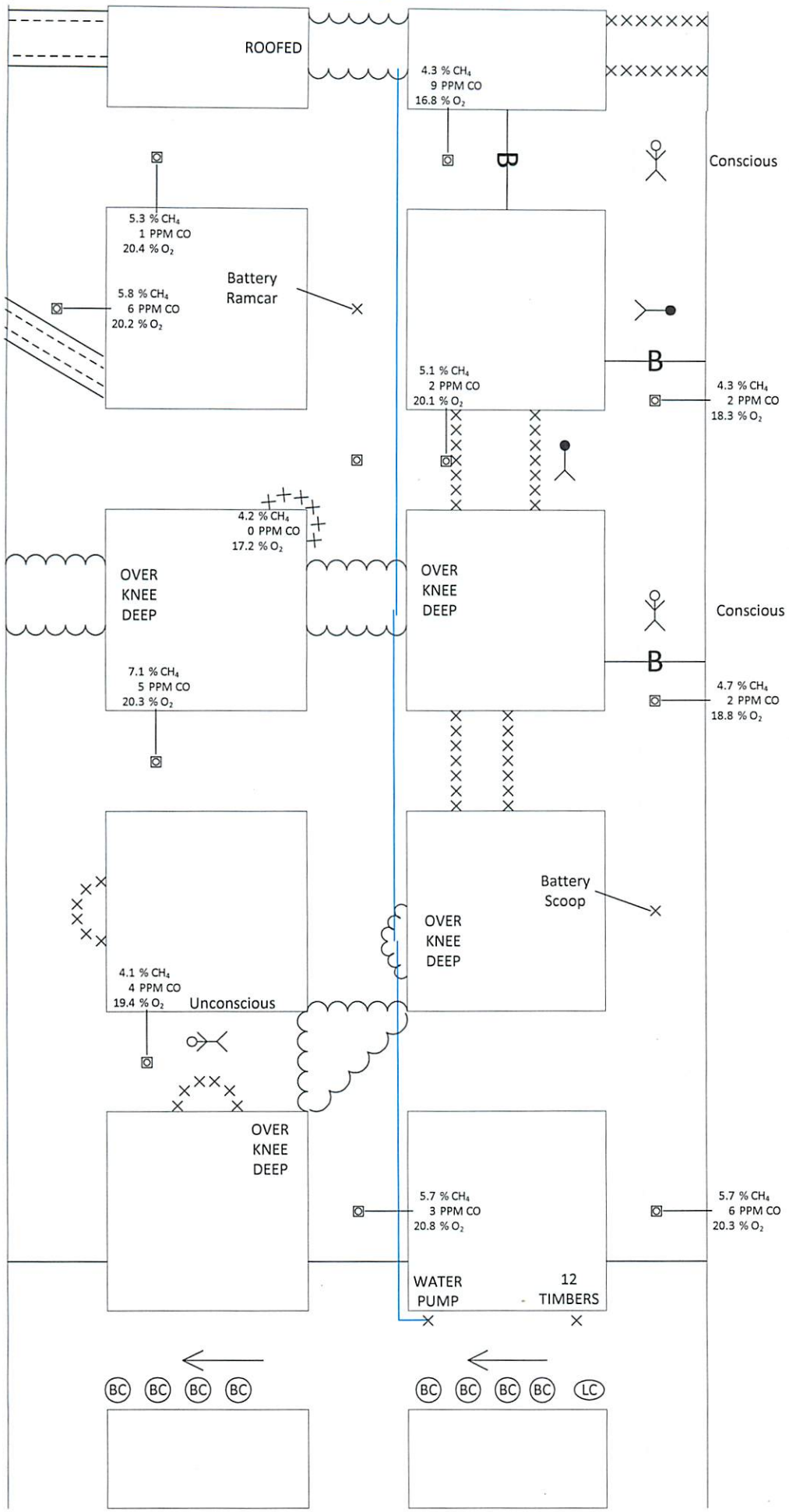
KENTUCKY RIVER 2016 DAY 1 VENTILATION 3



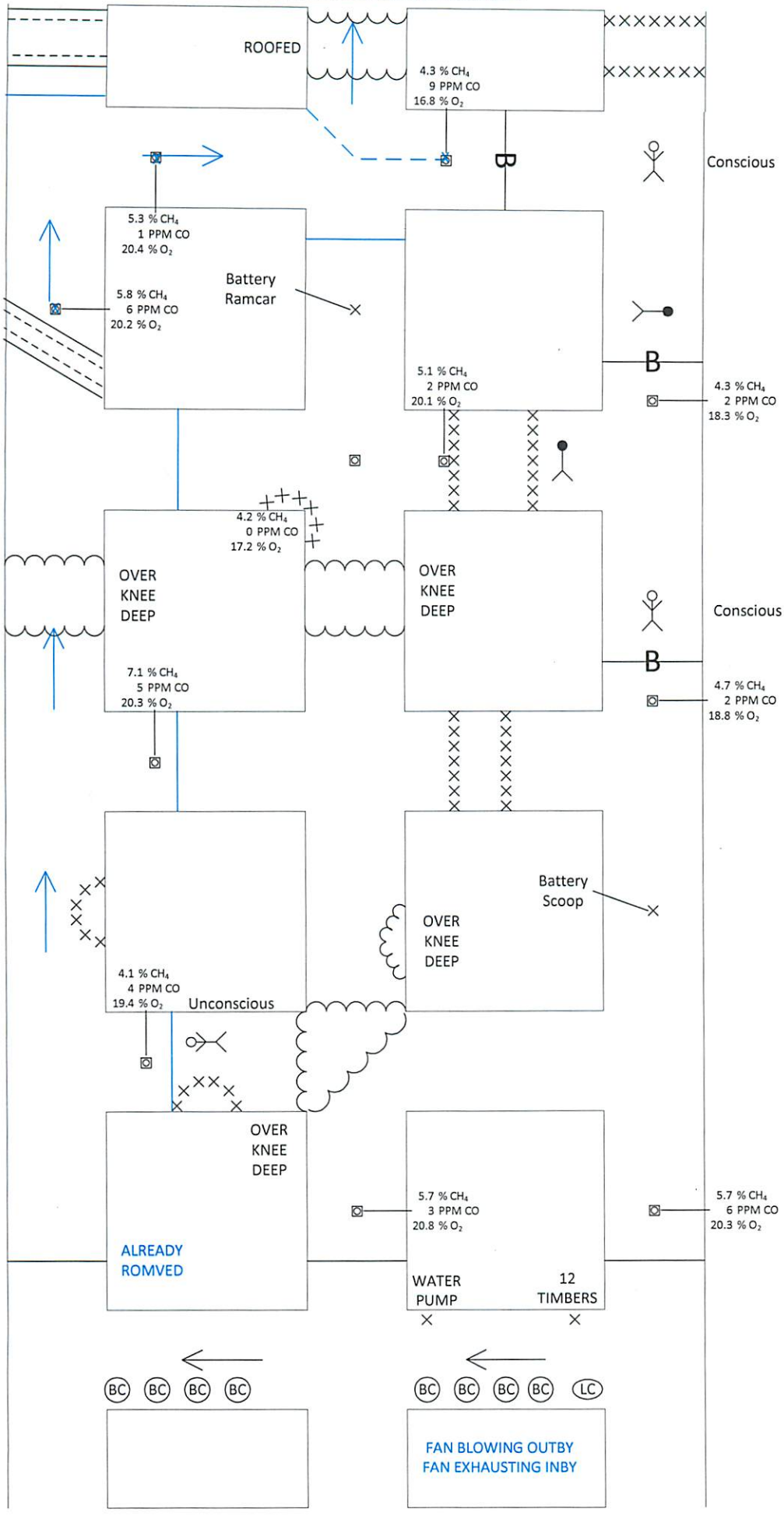
KENTUCKY RIVER 2016 DAY 1 PUMP WATER 3



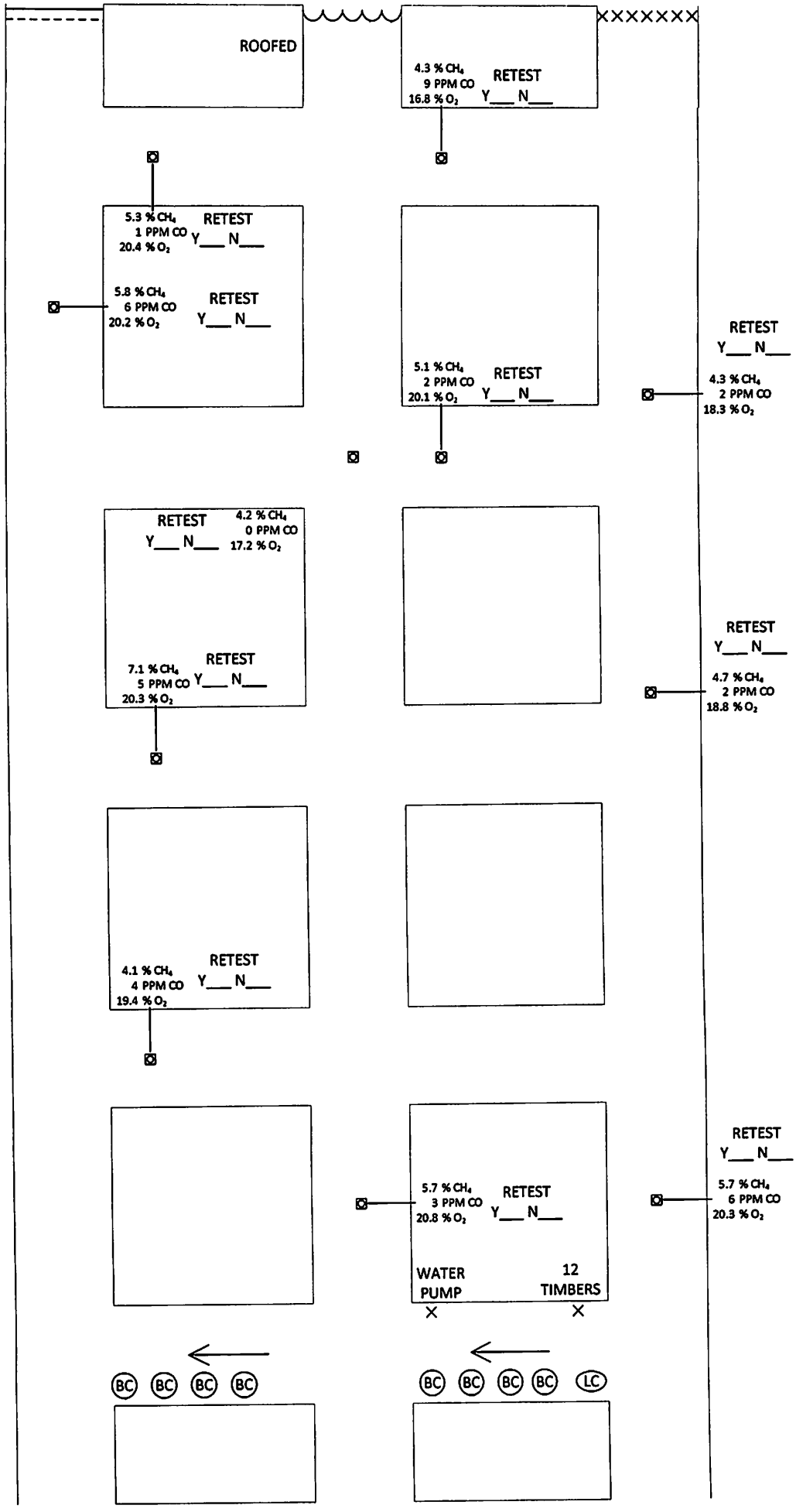
KENTUCKY RIVER 2016 DAY 1 PUMP WATER 4



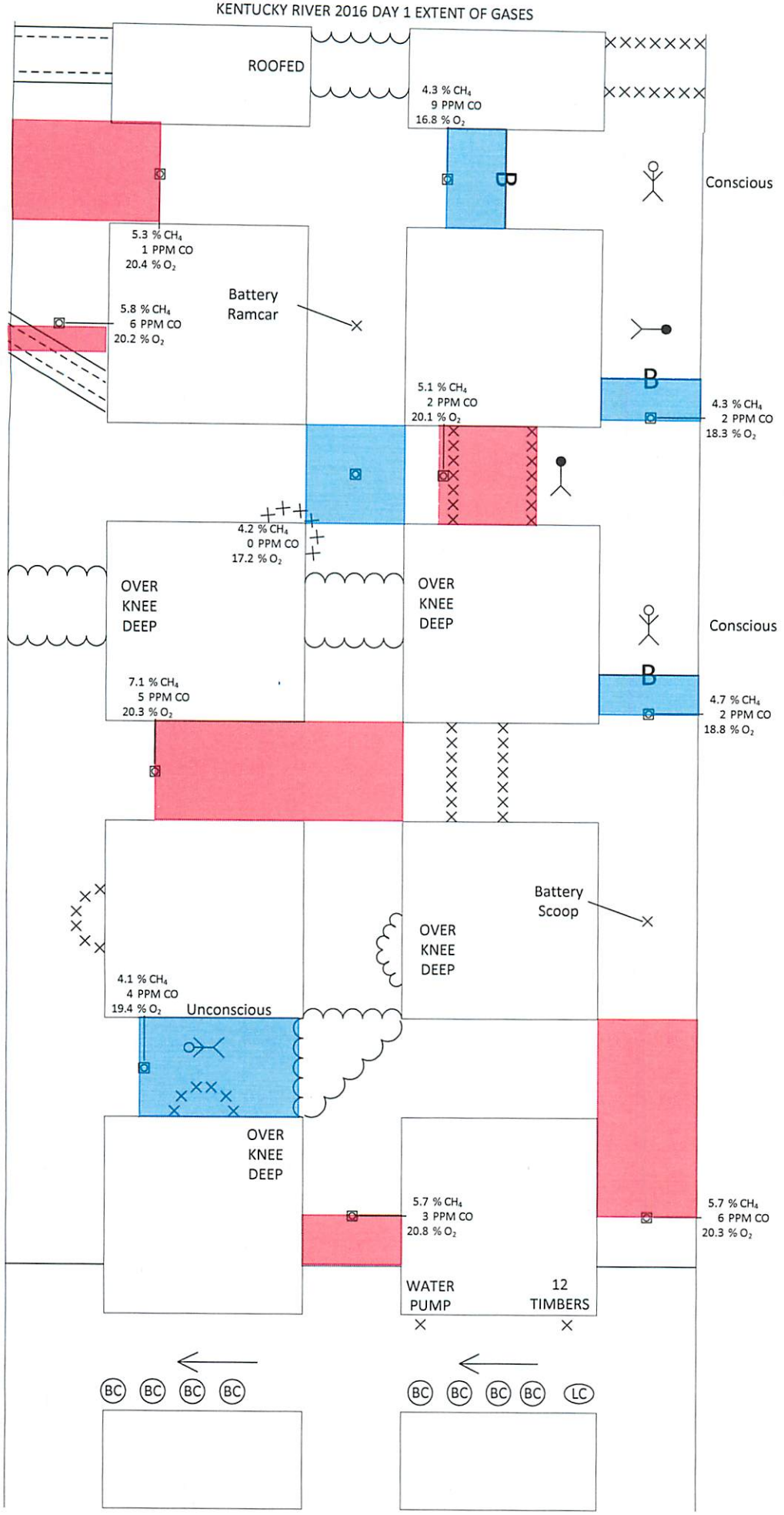
KENTUCKY RIVER 2016 DAY 1 VENTILATION 4



KENTUCKY RIVER 2016 DAY 1 FINAL MAP



KENTUCKY RIVER 2016 DAY 1 EXTENT OF GASES



KENTUCKY RIVER 2016 DAY 1 EXTENT OF GASES #2