



2018  
HARLAN SAFETY DAYS  
MINE RESCUE CONTEST  
DAY 2

MH

**HARLAN SAFETY DAYS MINE RESCUE CONTEST  
SUPERINTENDENT STATEMENT DAY 2  
JULY 26, 2018**

Thank you for coming to help us. You are located on the surface at the top of the slope of the Har-Co #1 mine. This mine was just starting out and is working to drive entries away from the slope and split air shaft. When you reach the bottom of the slope you will be in the number 3 entry with a crosscut straight across the entry from the slope.

There is a fan located on the return side of the split shaft.

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

## **PROBLEM DAY 2**

**THE FAN LOCATED ON THE RETURN SIDE OF THE SPLIT SHAFT IS OFF AND CAN ONLY BE STARTED EXHAUSTING. DO NOT STALL THE FAN, AS IT WILL CAUSE DAMAGE TO IT.**

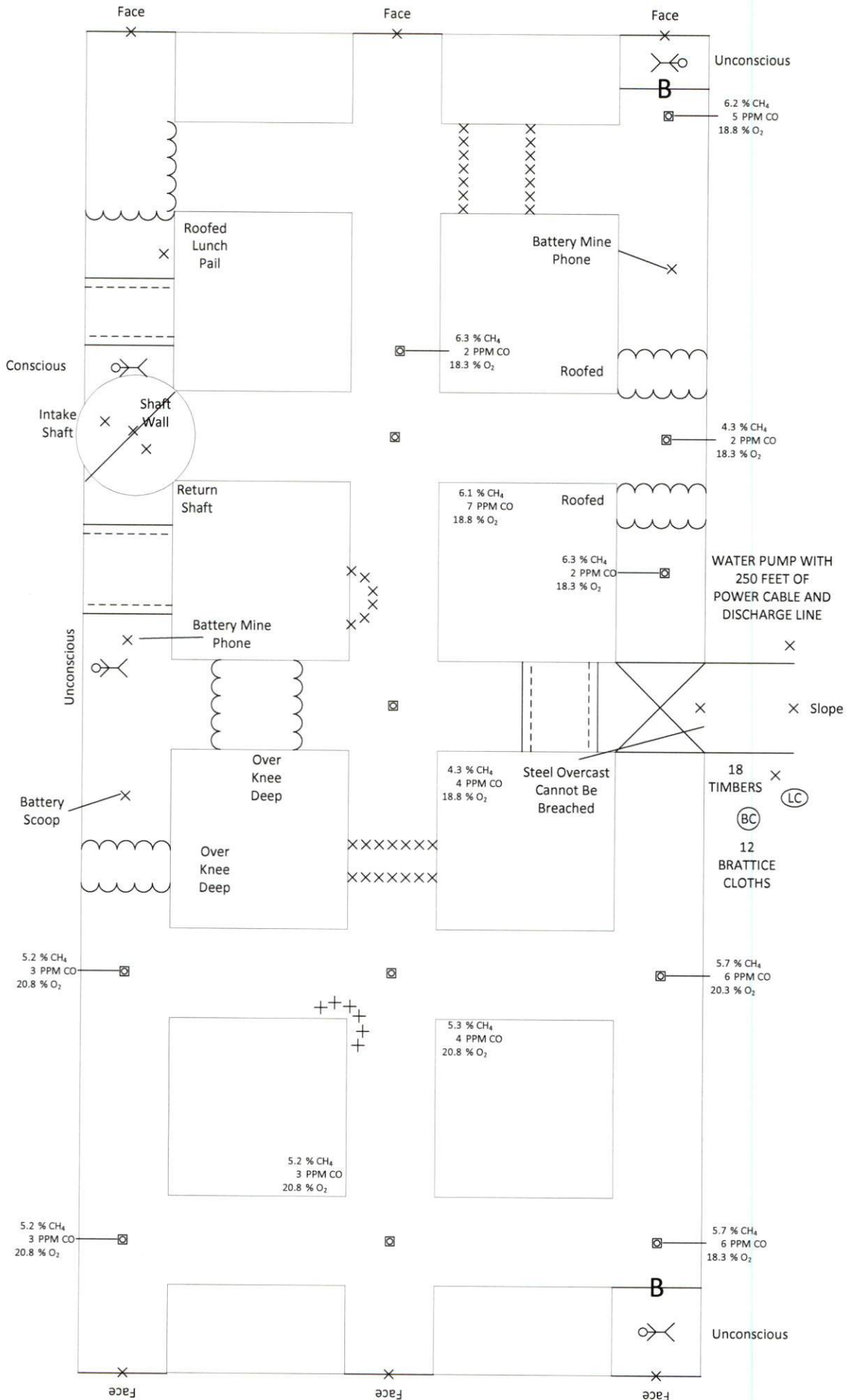
**BOTH THE INTAKE AND RETURN SIDE OF THE SHAFT IS SAFE TO VENTILATE THROUGH.**

**ACCOUNT FOR ALL 4 MISSING MINERS THAT ARE IN THE AREA YOU ARE EXPLORING AND BRING SURVIVORS TO THE SURFACE.**

**EXPLORE ALL AREAS OF THE MINE THAT CAN BE DONE SAFELY.**

**WHEN THE TEAM IS TRAVELING THEY CAN ONLY CARRY 2 TIMBERS PER WORKING TEAM MEMBER AND THEY MUST CARRY THEIR OWN TIMBER IN THEIR HANDS. BRATTICE CLOTH AND LINE CURTAIN MUST BE EITHER CARRIED IN THE HAND OR ON THE STRETCHER. NO THROWING, KICKING, PITCHING ETC. OF THE TIMBERS, WATER PUMP, BRATTICE CLOTH OR LINE CURTAINS BY THE TEAM MEMBERS.**

HARLAN SAFETY DAYS DAY 2 PROBLEM MAP



HARLAN SAFETY DAYS MINE RESCUE CONTEST DAY 2  
JUDGES BRIEFING

I will discuss the outby and inby verbiage with the judges so there is no confusion.

Top slope GT

Team Stop 1

Each overcast wall GT DI

Crosscut GT DI RR

The team now must set timbers through the unsafe roof to explore RR on inby side.

Team Stop 2

Inby GT RR Zig-ZAG

Crosscut between 1 & 2 GT DI

Outby GT DI RR

Team Stop 3

Inby GT

Crosscut between 2 & 3 GT

Crosscut between 1 & 2 GT

Team Stop 4

Inby GT DI

Outby GT DI

Team Stop 5

Outby GT DI RR

Team Stop 6  
Inby GT DI RR  
Crosscut between 2 & 3 GT DI RR  
Crosscut between 1 & 2 GT DI

The team now can either set timbers at unsafe roof at shaft or pump water 1. We will set it up as if they will pump water.

Team Stop 7  
Patient touch assess DI take to surface.  
Inby GT DI RR  
Outby GT DI

Now the team must pump water 2 in number 1 entry to explore.

Team Stop 8  
Crosscut between 1 & 2 GT RR Zig-Zag  
Outby GT

Team Stop 9  
Continue RR Zig-Zag through intersection  
Outby GT Continue Zig-Zag RR  
Inby GT DI RR  
Crosscut between 2 & 3 GT

Team Stop 10  
Inby GT DI  
Outby GT

Now the team can go down number 1, 2 or 3 entry, we will set up to go down number 1 entry.

Team Stop 11  
Outby GT DI RR  
Crosscut between 1 & 2 GT

Team Stop 12  
Inby GT  
Crosscut between 2 & 3 GT  
Outby GT DI RR

Team Stop 13  
Barricade GT DI  
Inby GT

To continue exploring  
Ventilation 1  
Ventilation 2  
Pump 3  
Pump 4

Outby at overcast wall GT DI

Team Stop 14  
Crosscut between 2& 3 GT DI  
Inby GT DI

If the team tries to use line curtain to move gas at team stop 4 the line curtain is too short and will not reach to within 5 feet of the solid rib.

Ventilation 3

Enter barricade outby number 3 entry.  
Entering barricade GT  
Patient Touch Assess DI take to surface  
Outby GT DI RR

Ventilation 4  
Pump 5

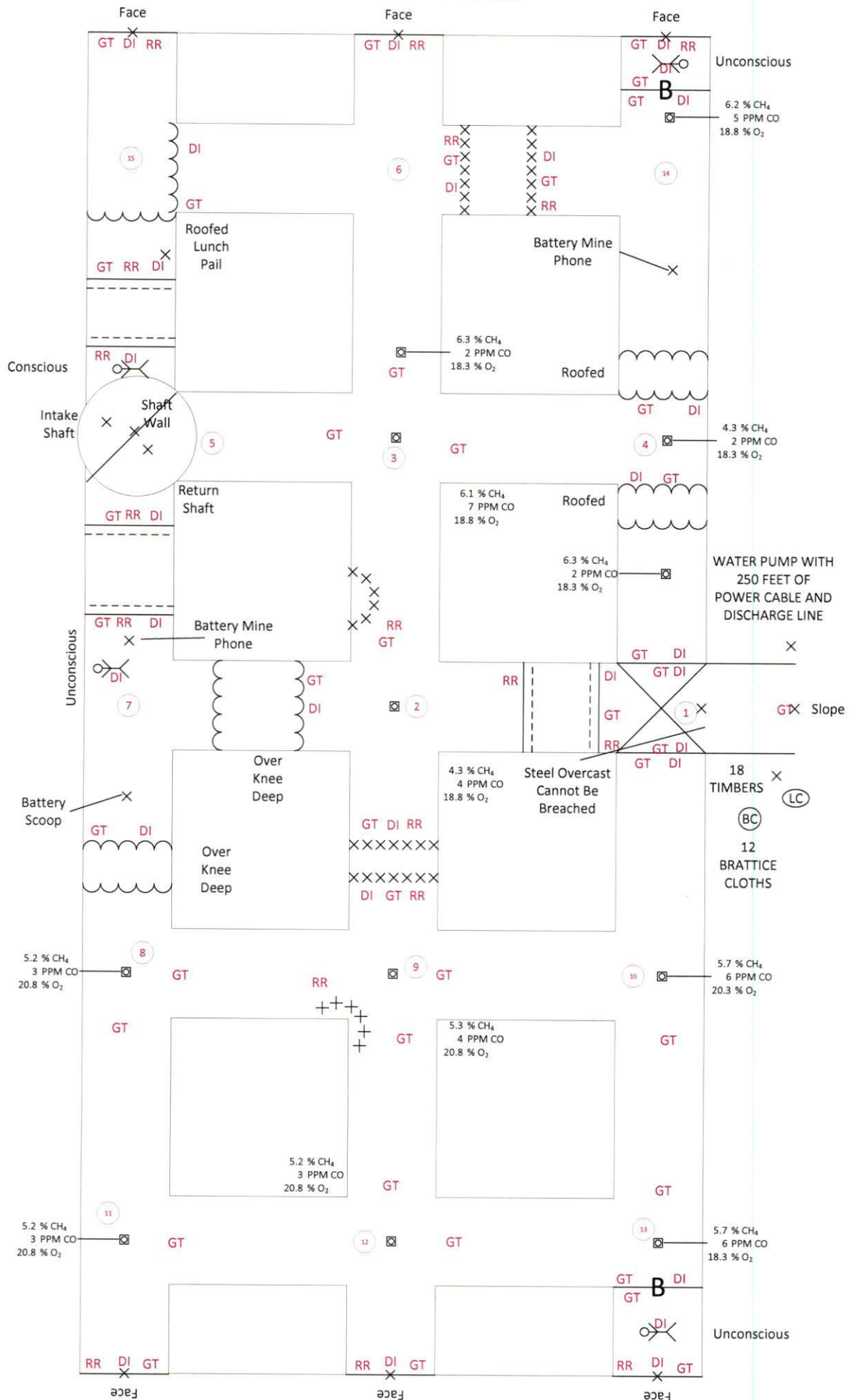
Team Stop 15  
Inby GT DI RR  
Outby GT DI RR  
Set timbers RR Outby  
Patient Touch Assess DI take to surface.

Ventilation 5

Enter barricade inby number 3 entry.  
Entering barricade GT  
Patient Touch Assess DI take to surface  
Inby GT DI RR

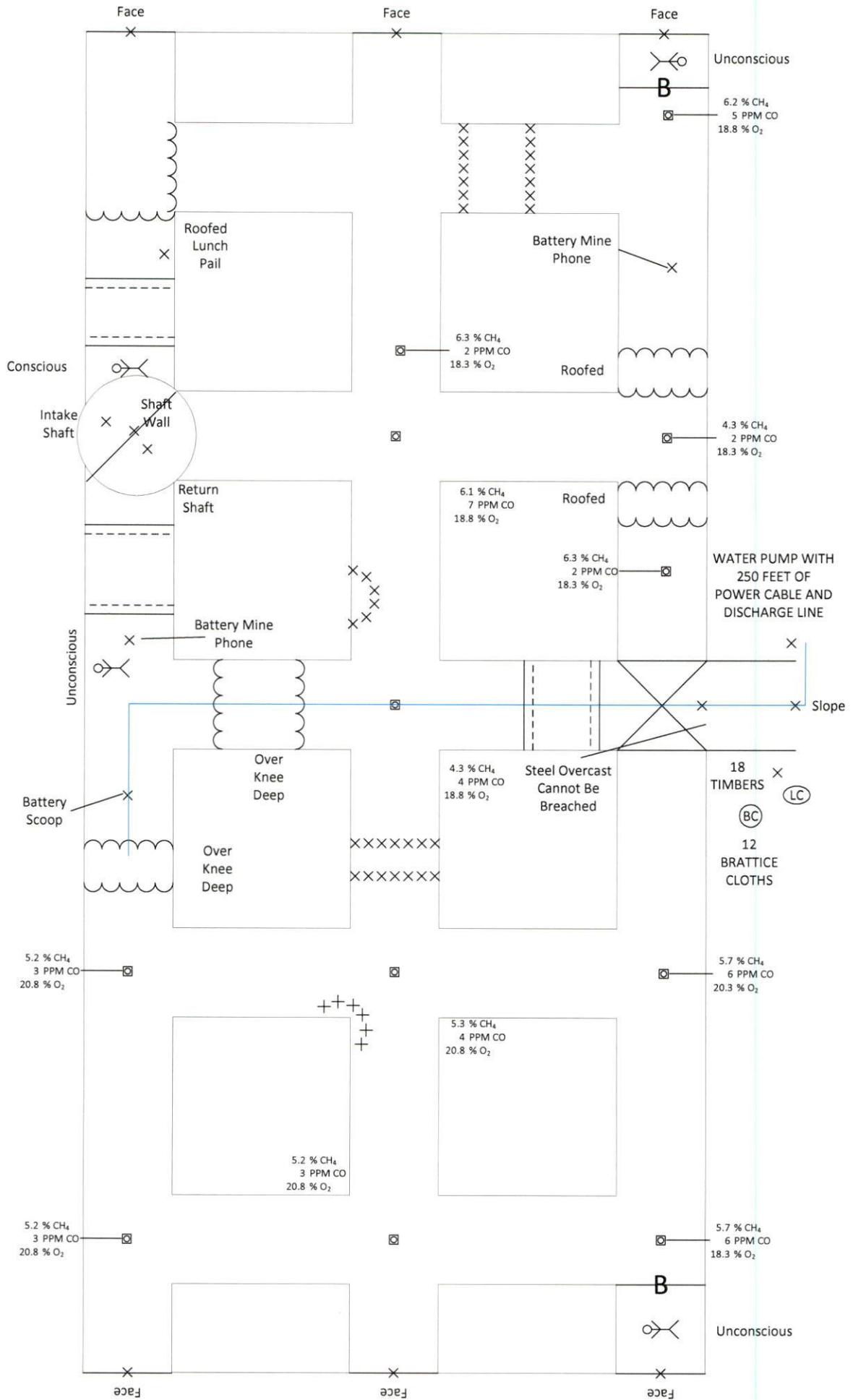
Stop Clock

HARLAN SAFETY DAYS DAY 2 TEAM STOP

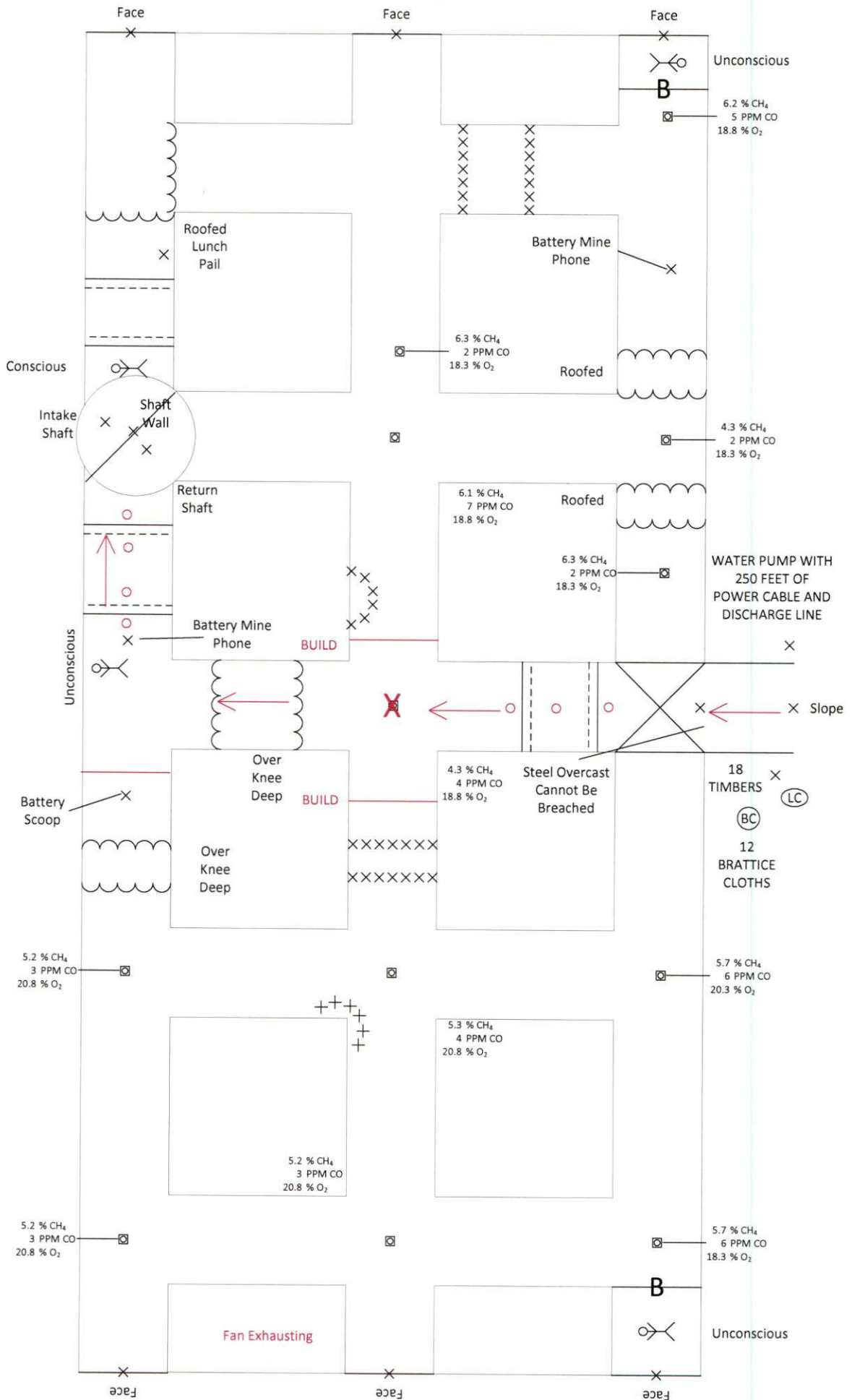




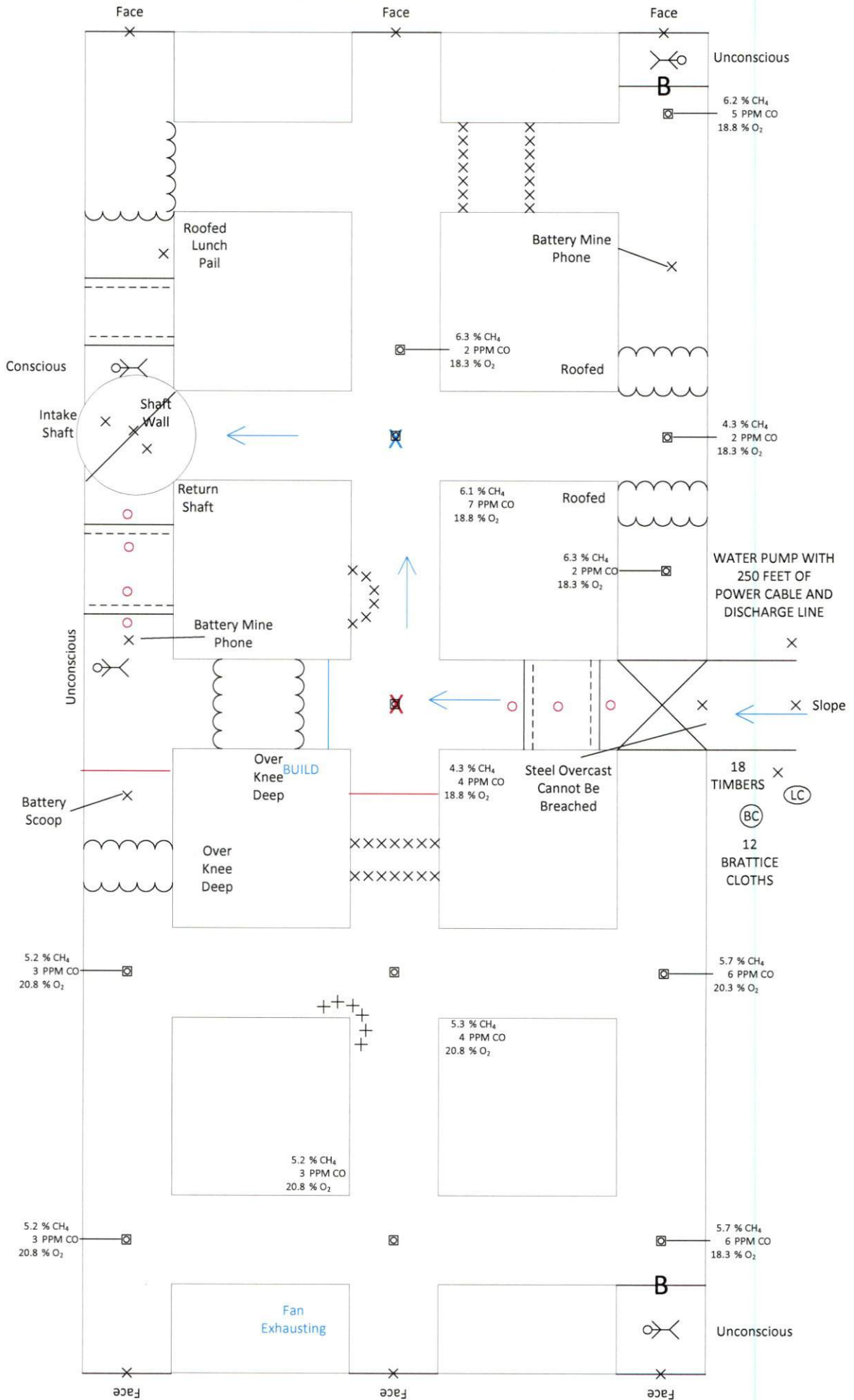
HARLAN SAFETY DAYS DAY 2 PUMP 2



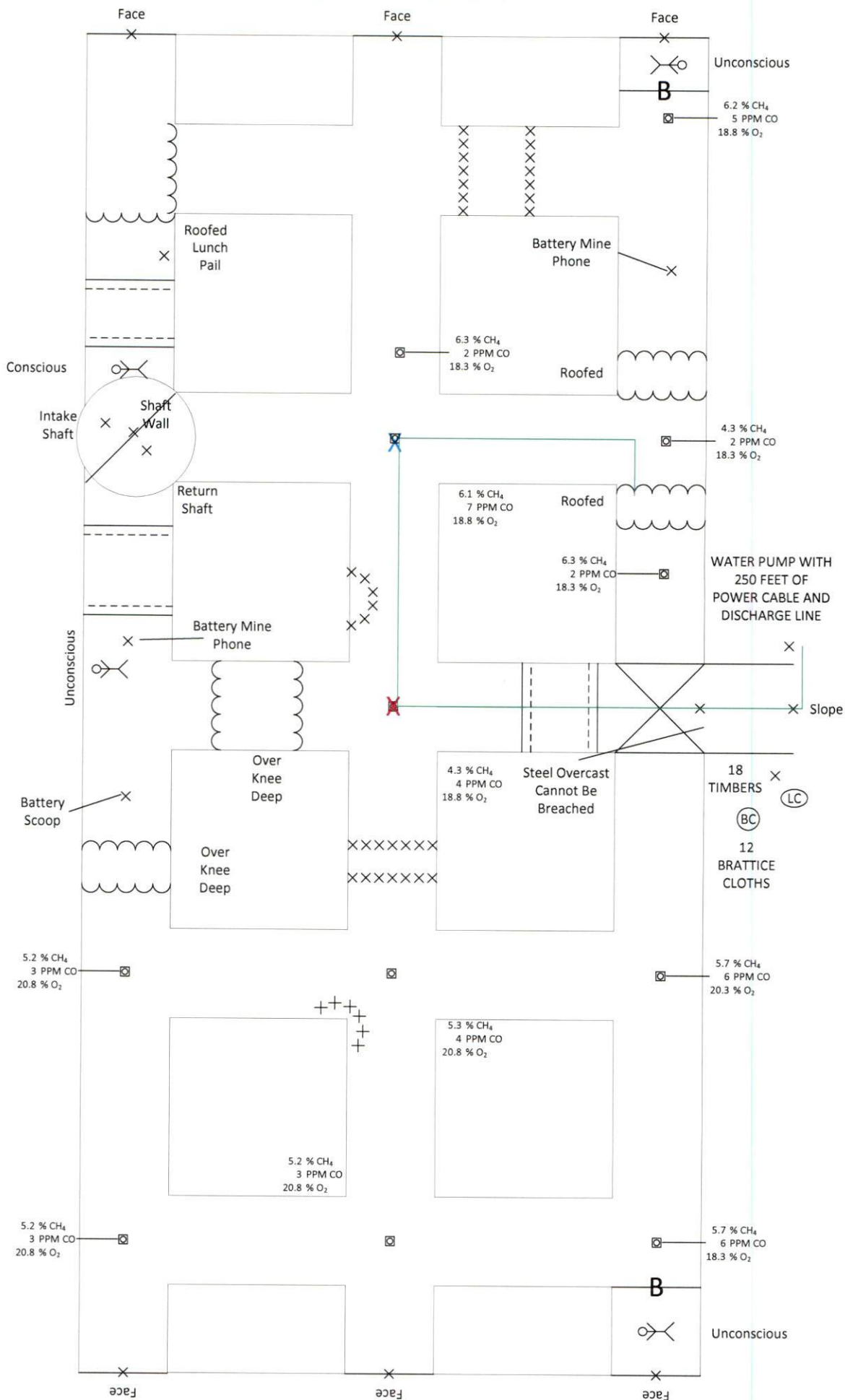
HARLAN SAFETY DAYS DAY 2 VENT 1



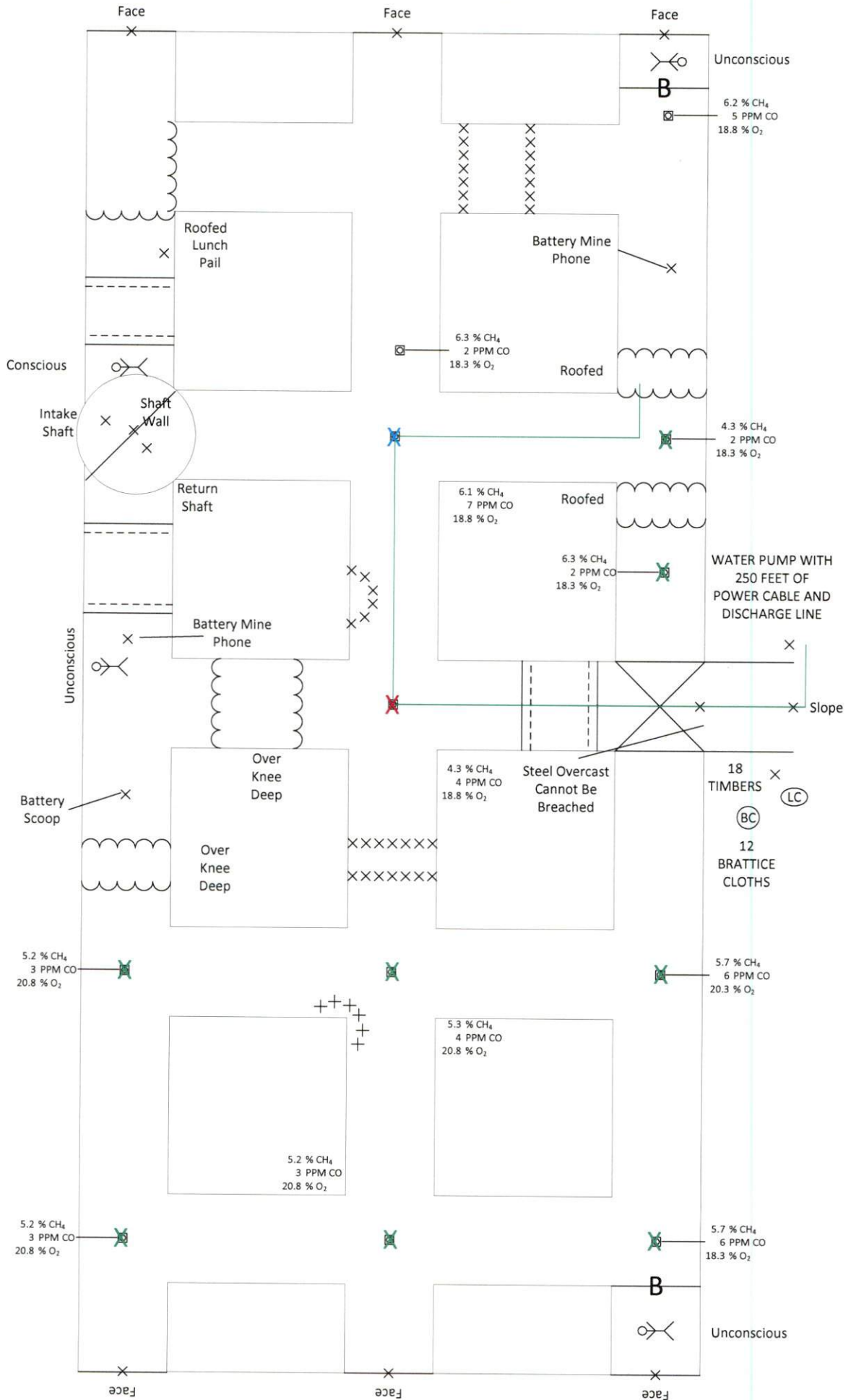
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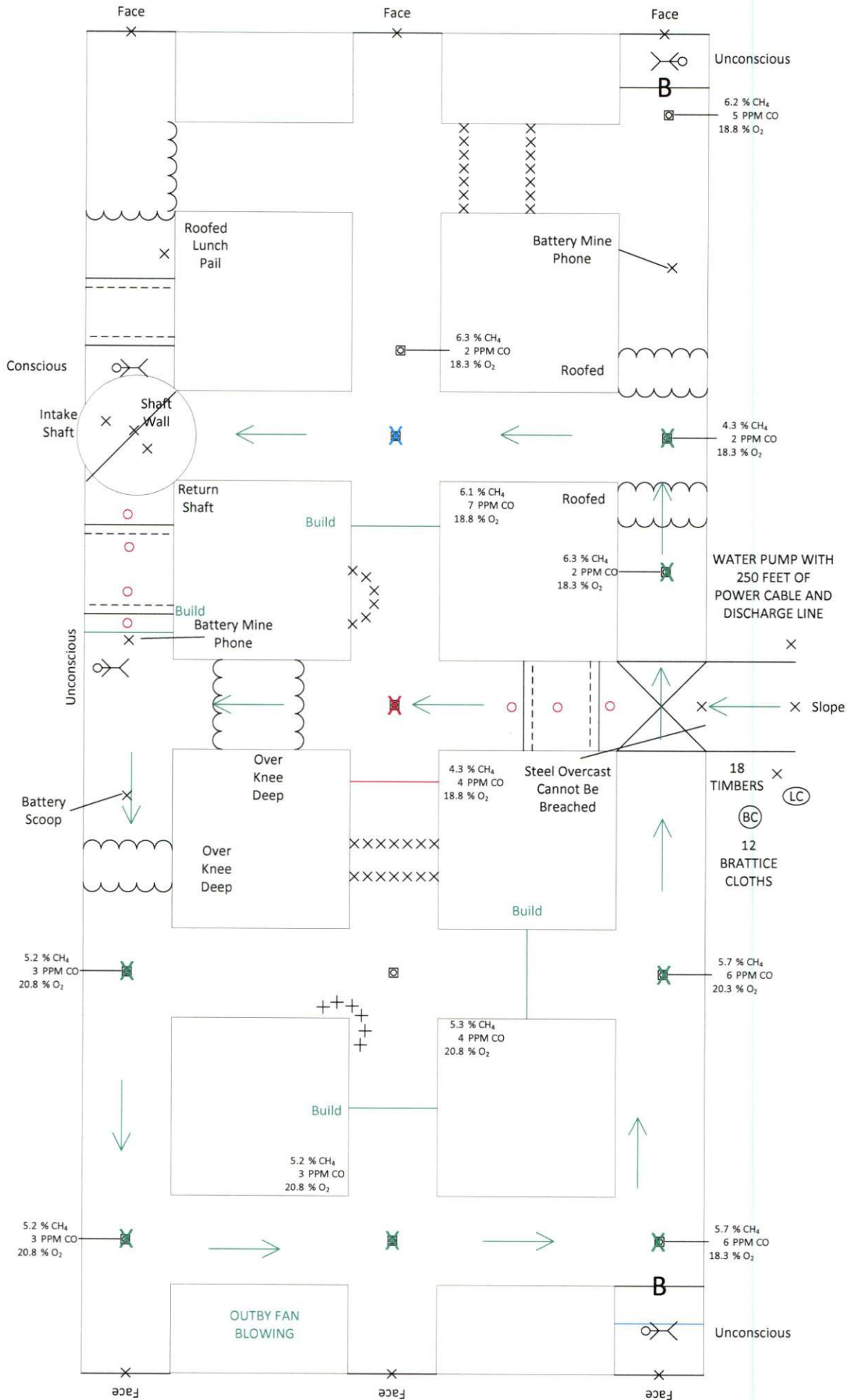
HARLAN SAFETY DAYS DAY 2 PUMP 3



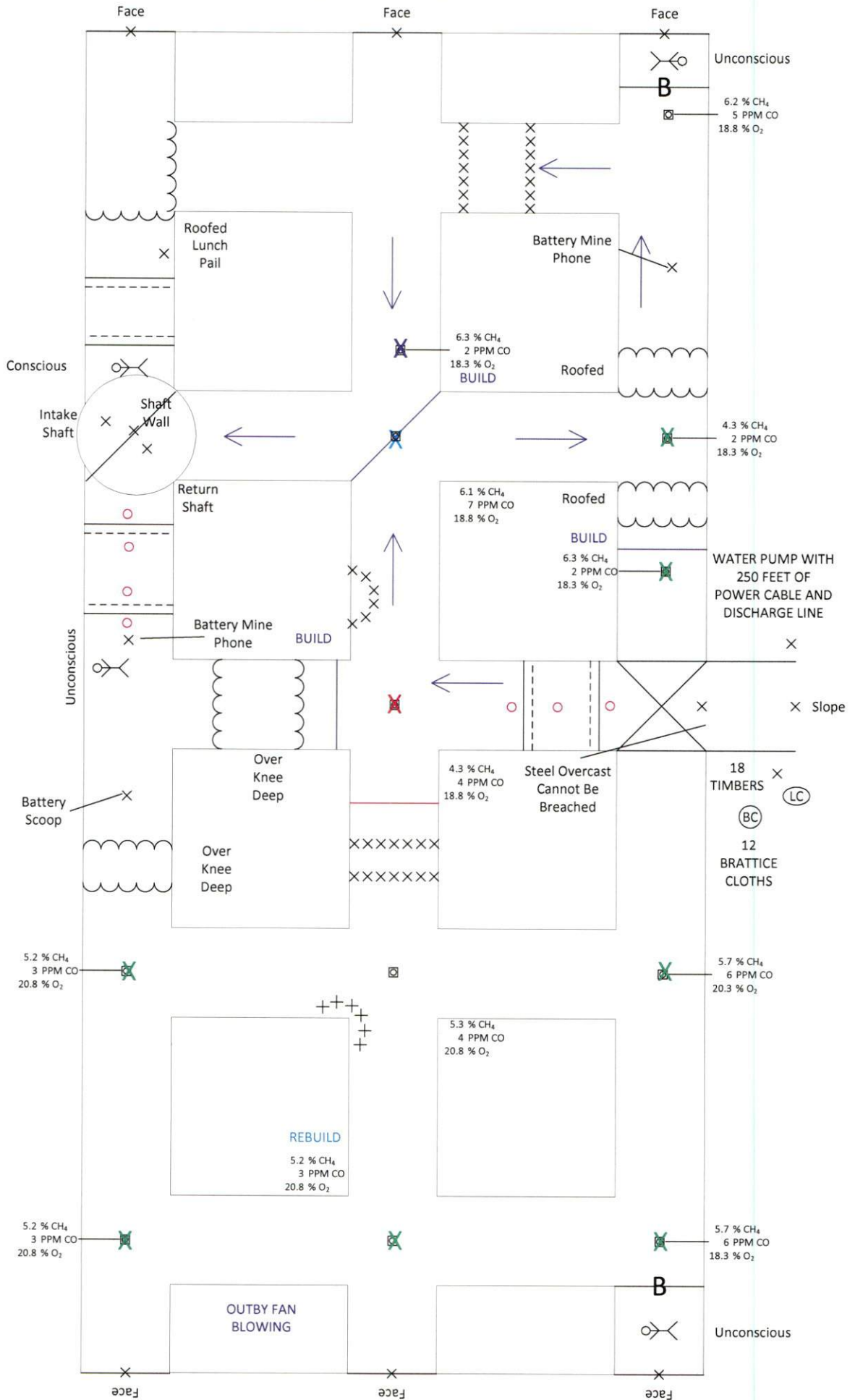
HARLAN SAFETY DAYS DAY 2 PUMP 4



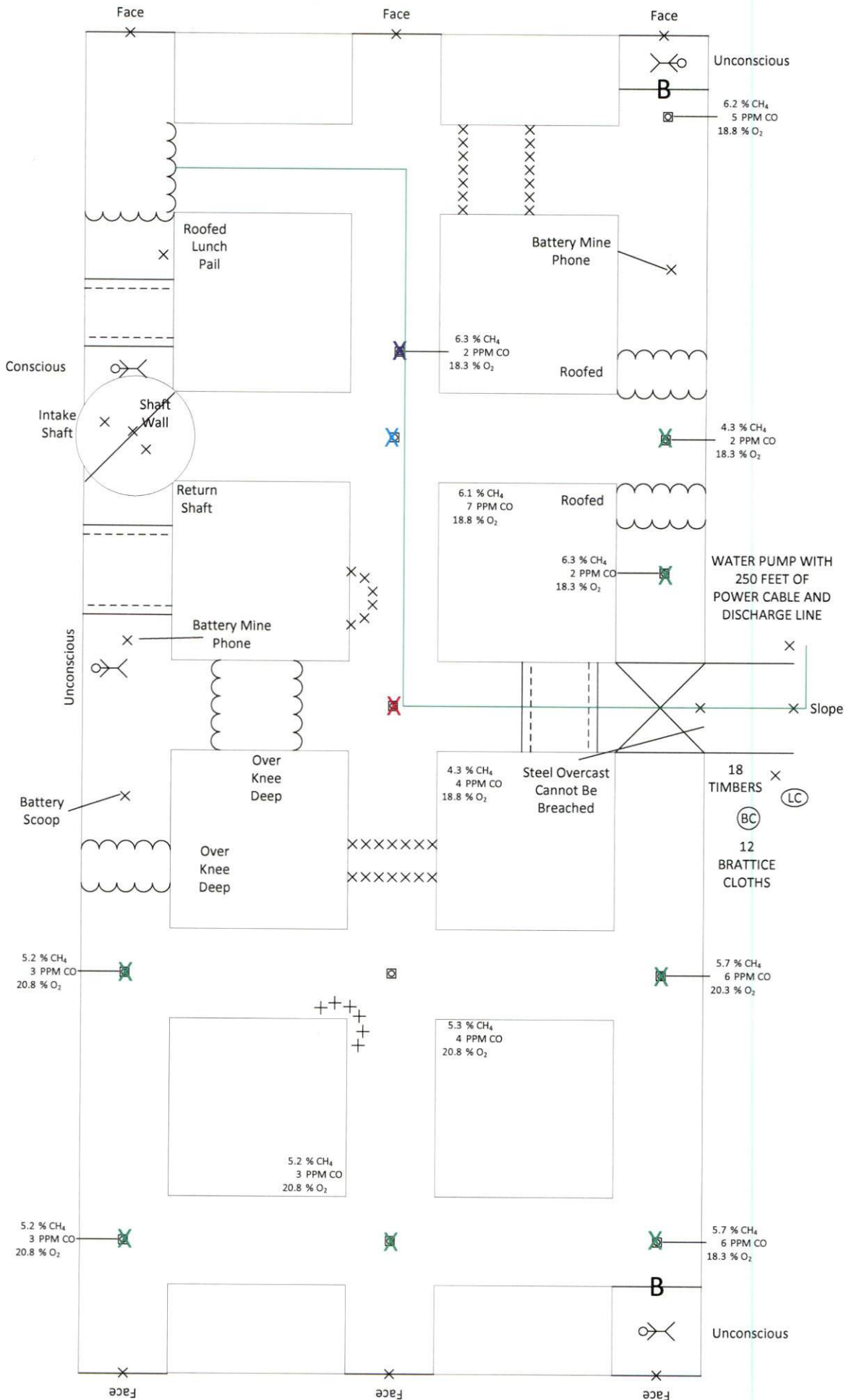
HARLAN SAFETY DAYS DAY 2 VENT 3



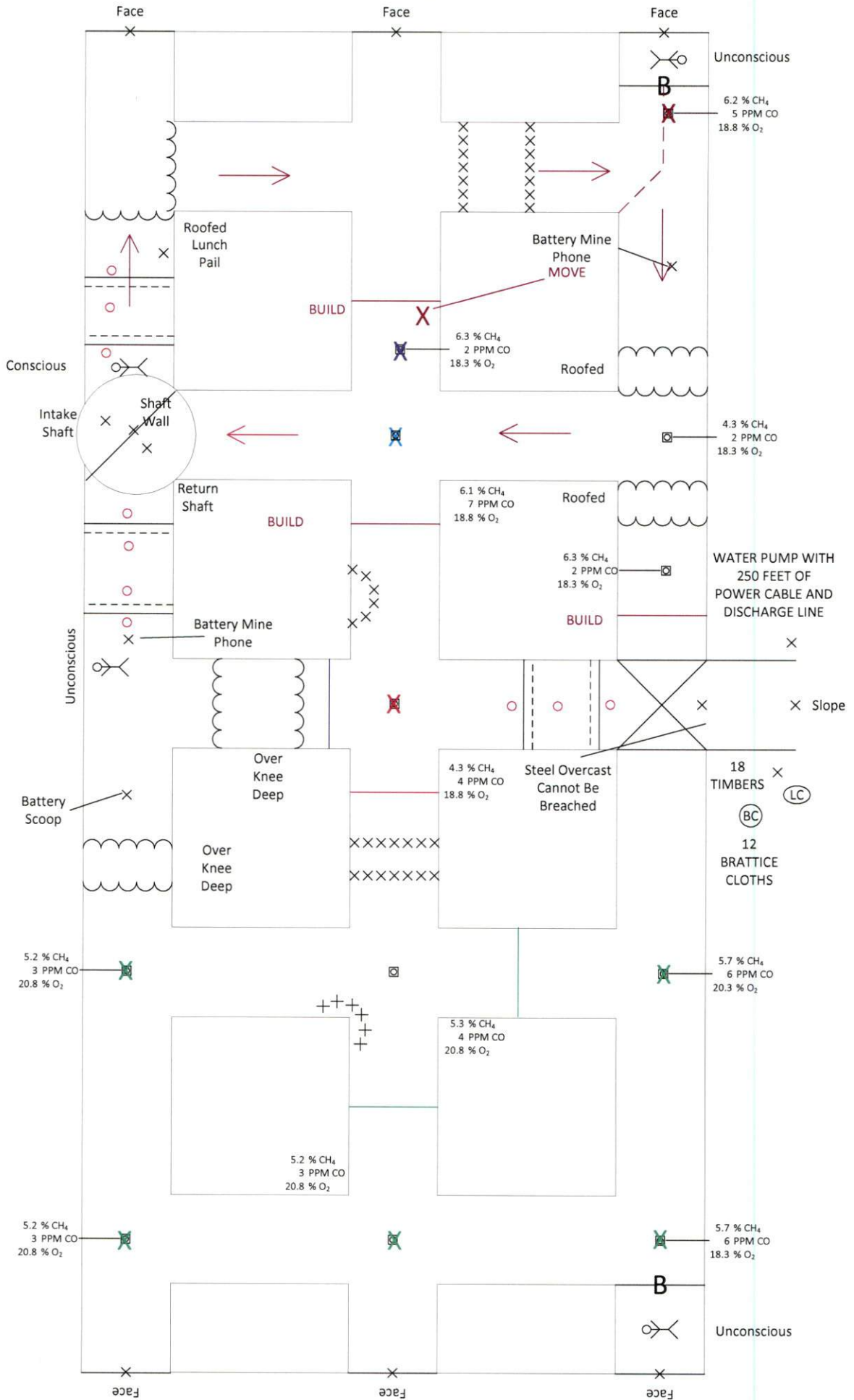
HARLAN SAFETY DAYS DAY 2 VENT 4



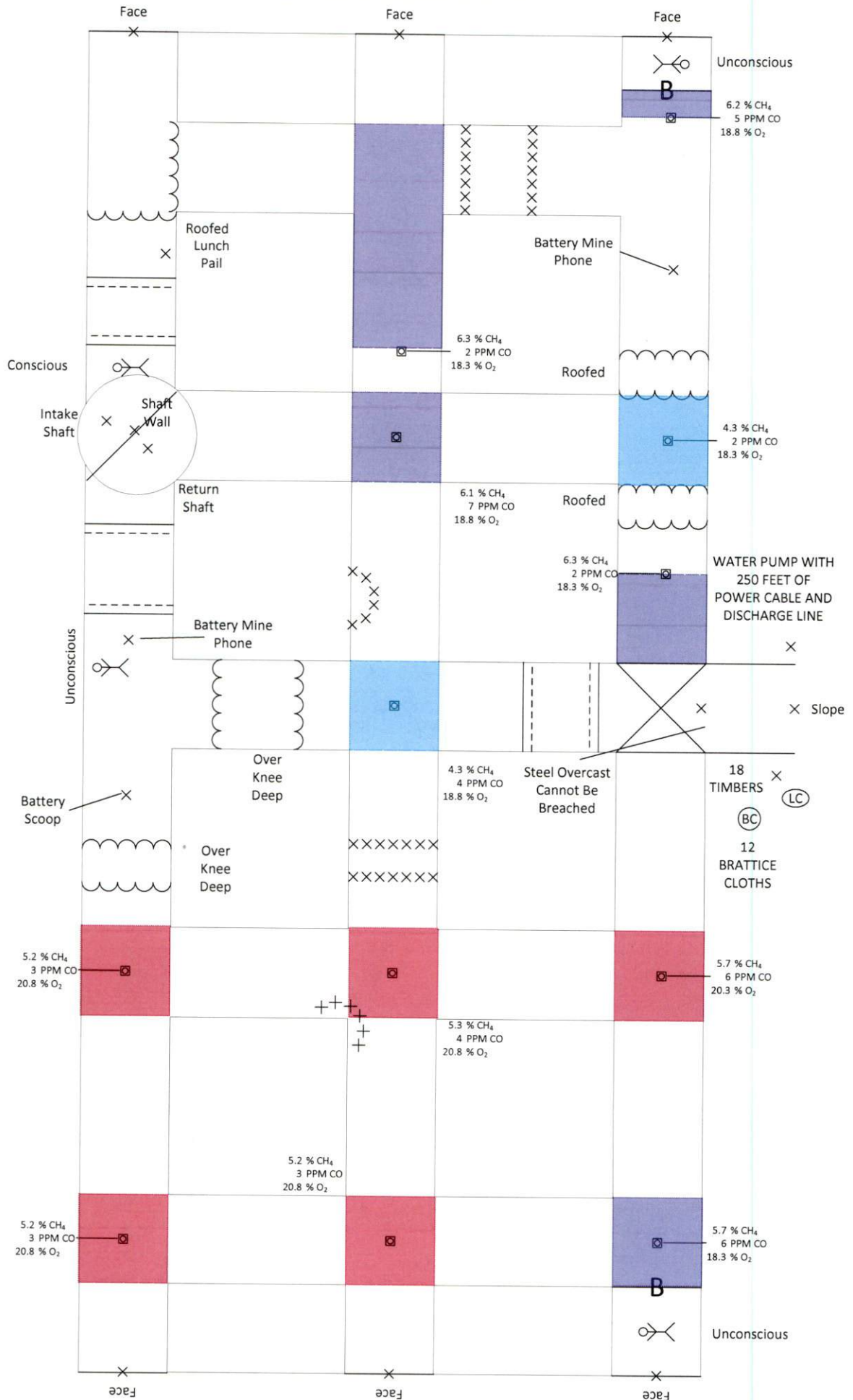
HARLAN SAFETY DAYS DAY 2 PUMP 5



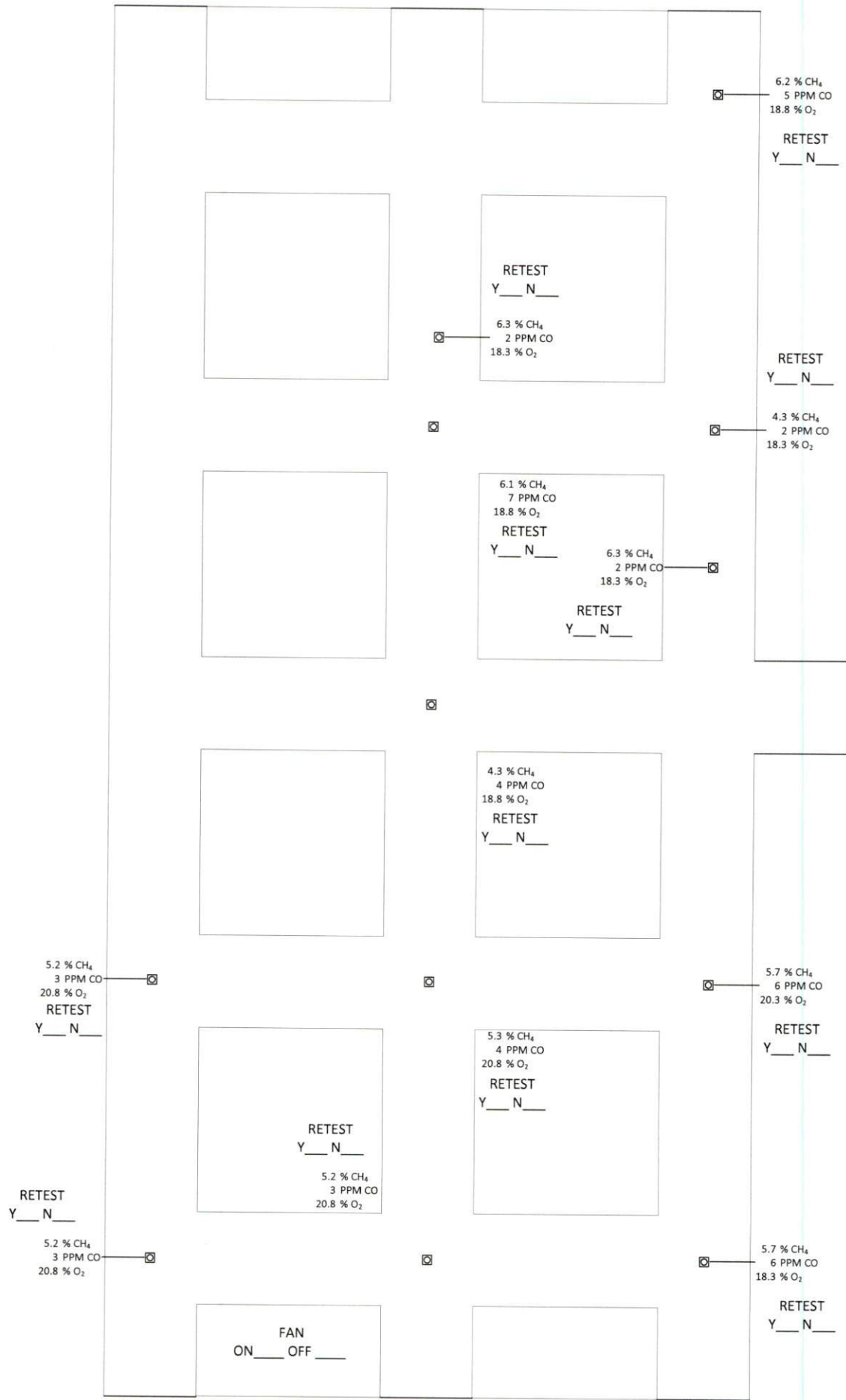
HARLAN SAFETY DAYS DAY 2 VENT 5



HARLAN SAFETY DAYS DAY 2 EXTENT OF GASES



HARLAN SAFETY DAYS DAY 2 FINAL MAP



HARLAN SAFETY DAYS DAY 2 TEAM MAP

