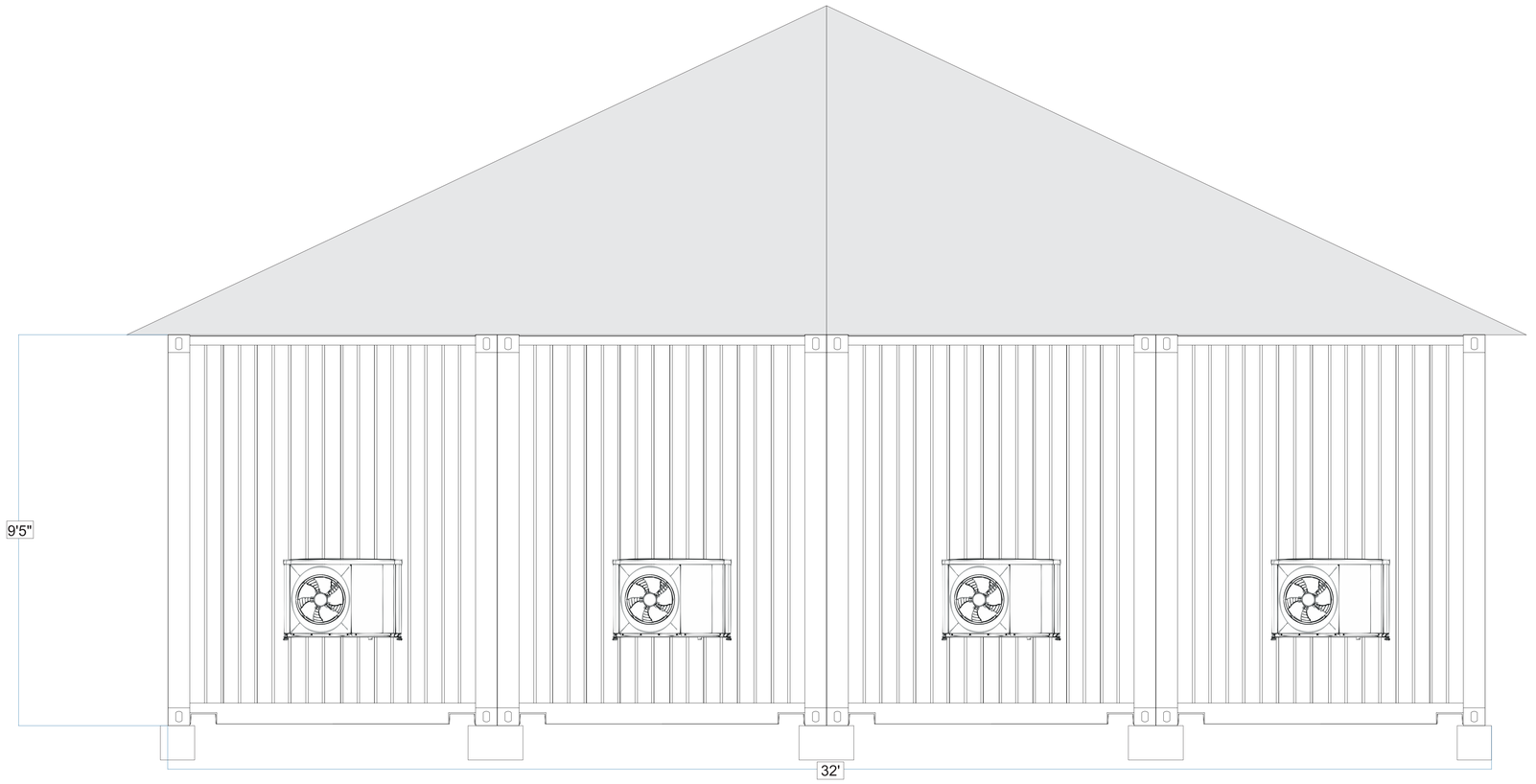
Design And Comprehensive Planning Of An Alaskan Optimized Intermodal Freight Container Based Shellfish Setting And Pre-nursery Seed Boosting System.

Sean Pottle Designs

Joint Innovation Project RFP#: 2023-02

April 4, 2025 | REV: D-0011



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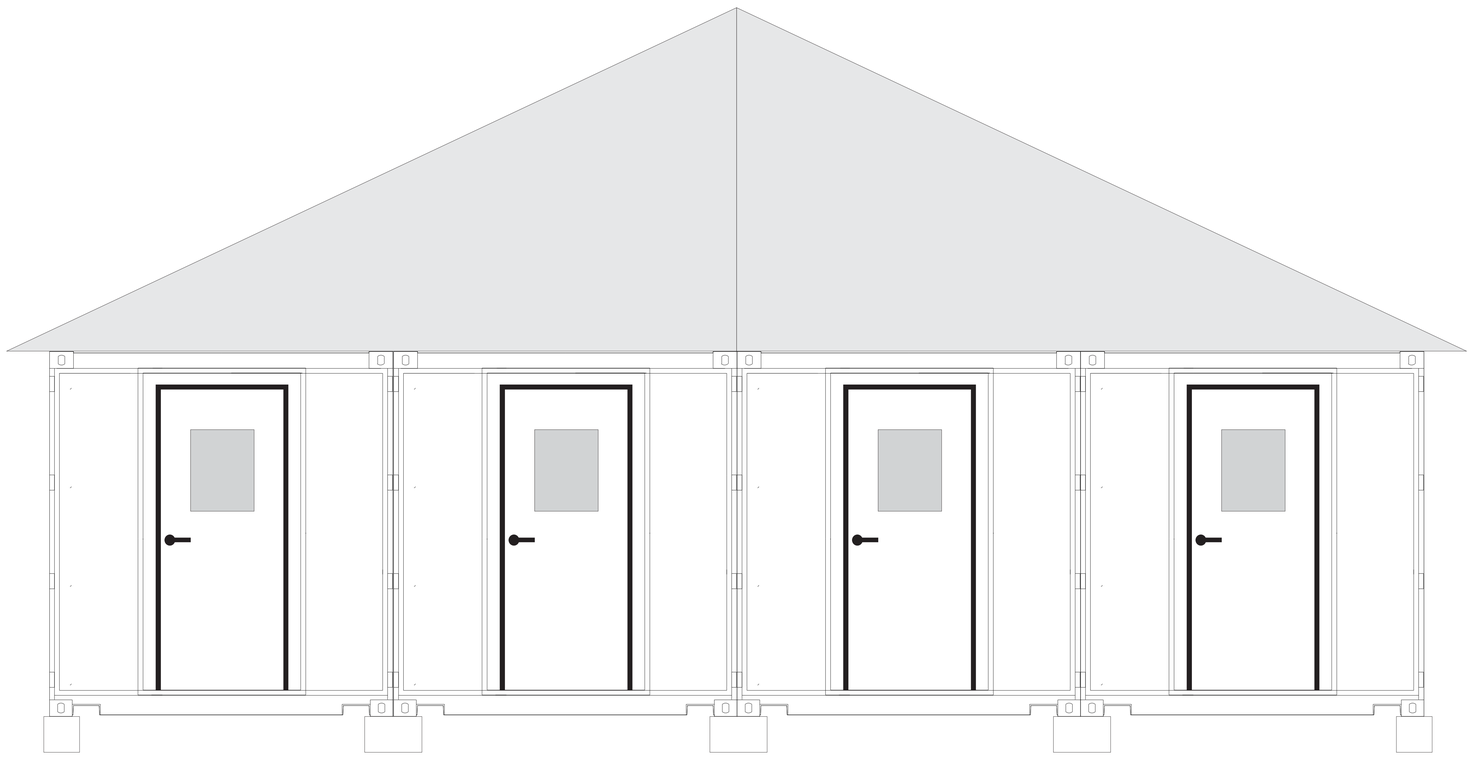

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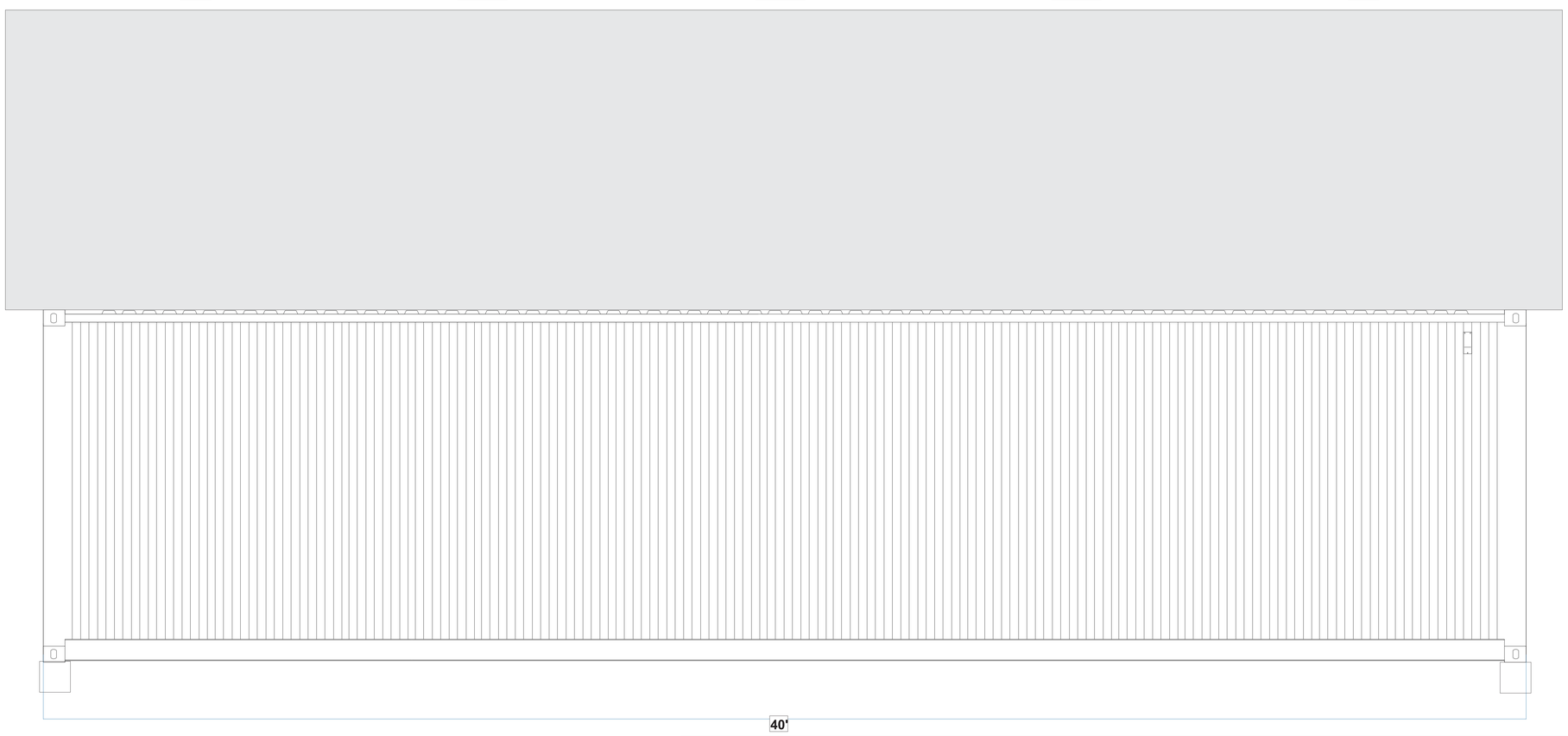

SIDE

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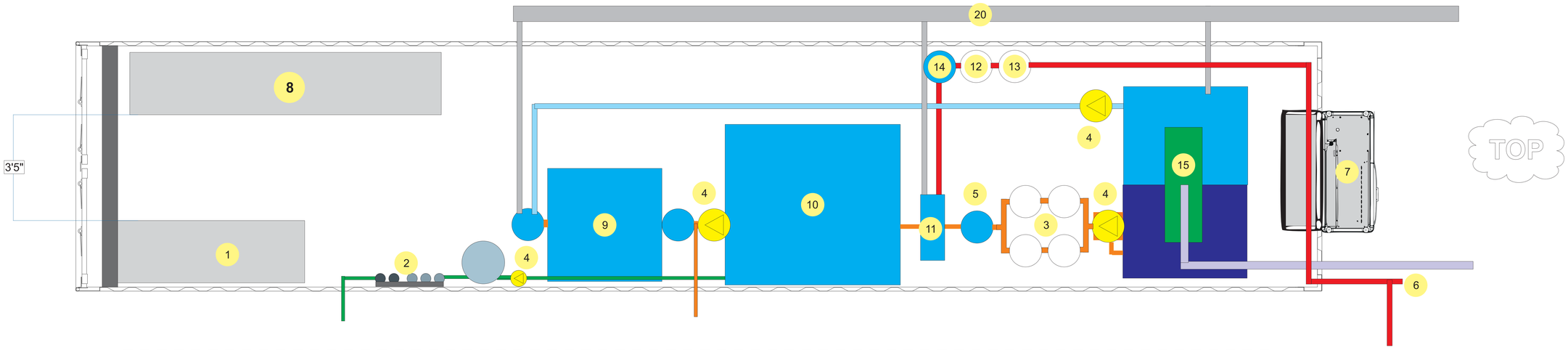

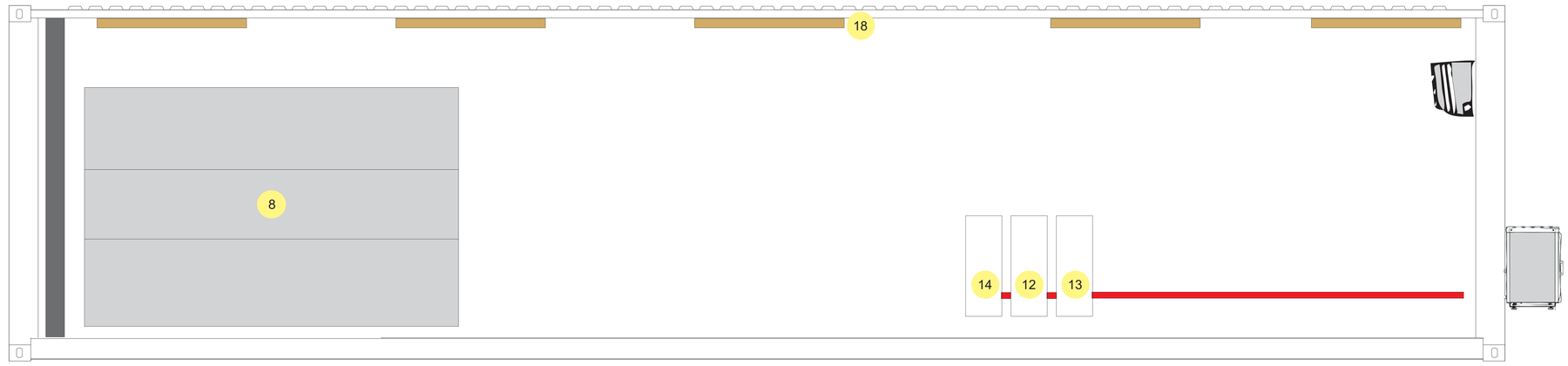

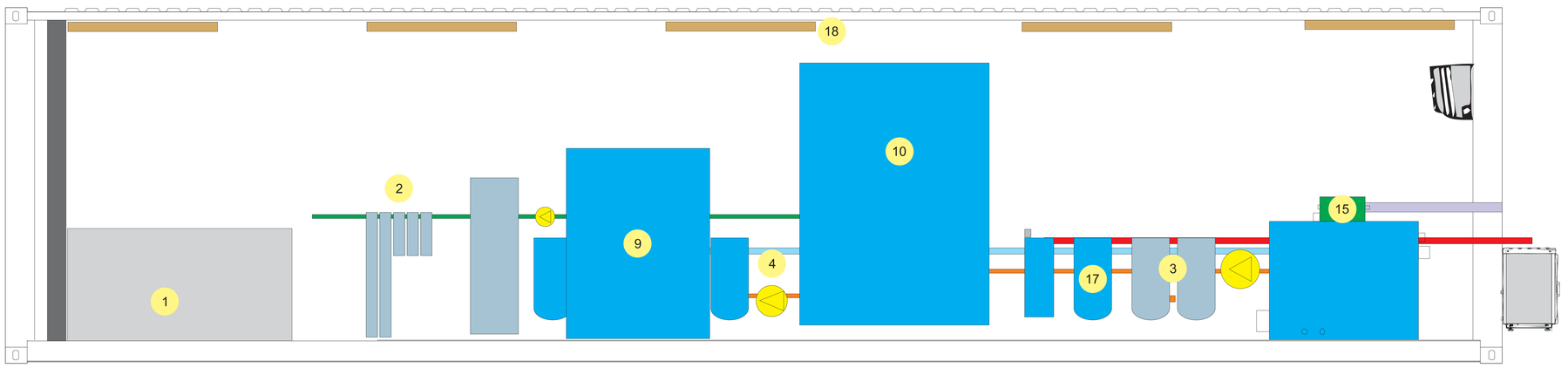

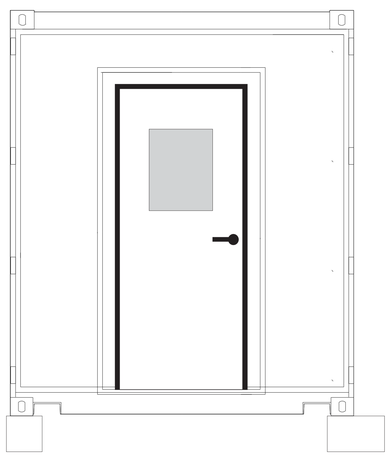

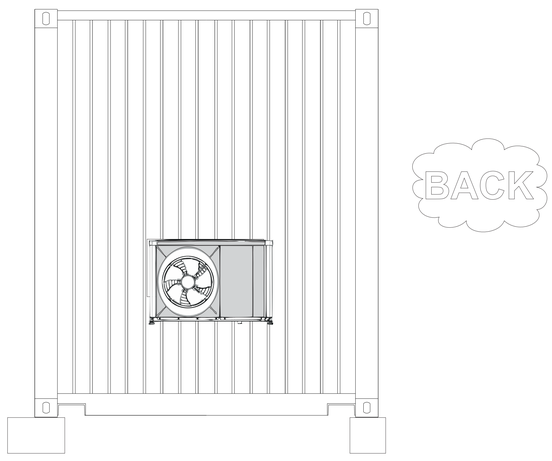

1	WORK BENCH	11	HEAT RECAPTURE HEAT EXCHANGER
2	ULTRA FILTRATION FOR ALGAE	12	50UM
3	SECONDARY FILTRATION TO LUM	13	100UM
4	PUMP	14	25UM
5	UV UNIT	15	20UM DRUM FILLER
6	RAW WATER LOOP FOR HEAT PUMP	16	FILTRATION
7	12000 BTU HEAT PUMP	17	UV UNIT
8	STORAGE SHELVES	18	LIGHTS
9	10 HP HEAT PUMP	19	SHELVING STORAGE
10	2000L STORAGE TANK	20	HEAT RECAPTURE FILTRATION

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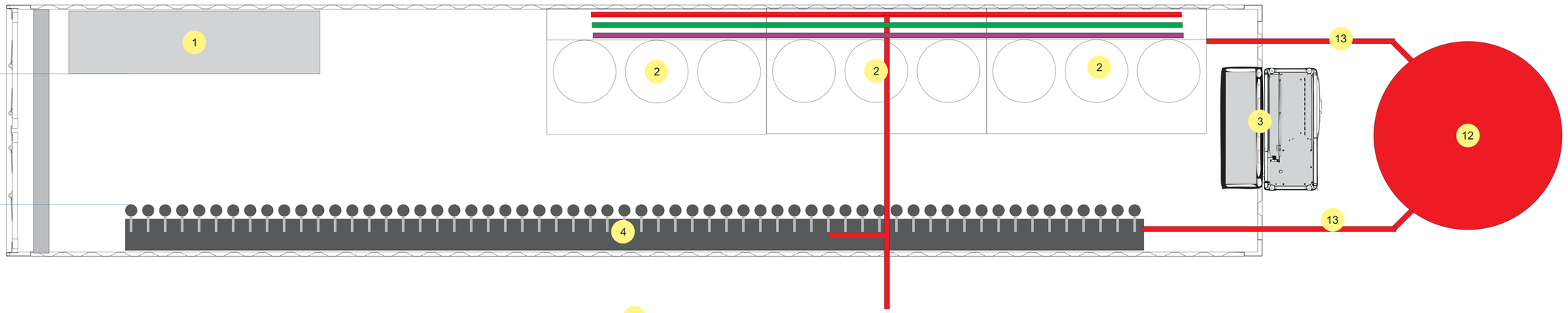

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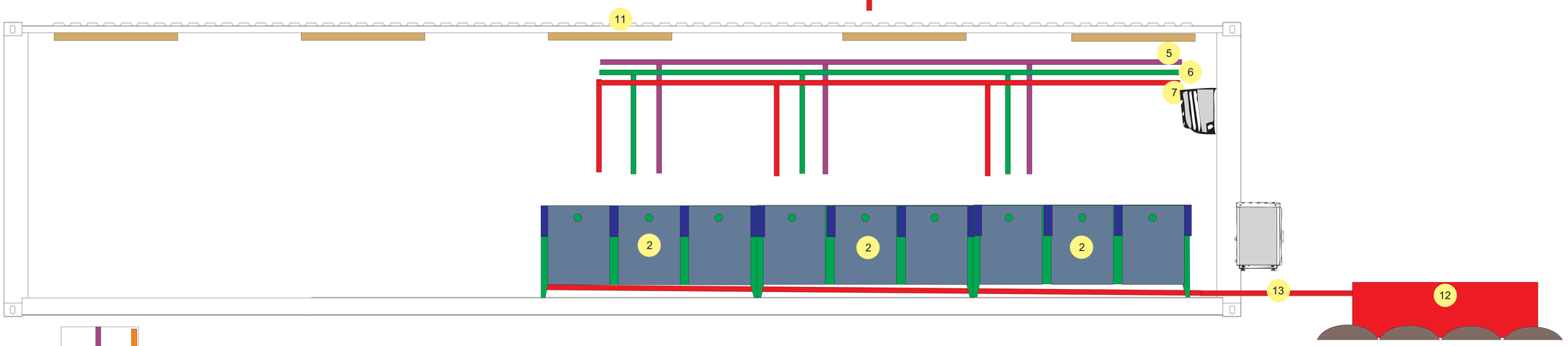

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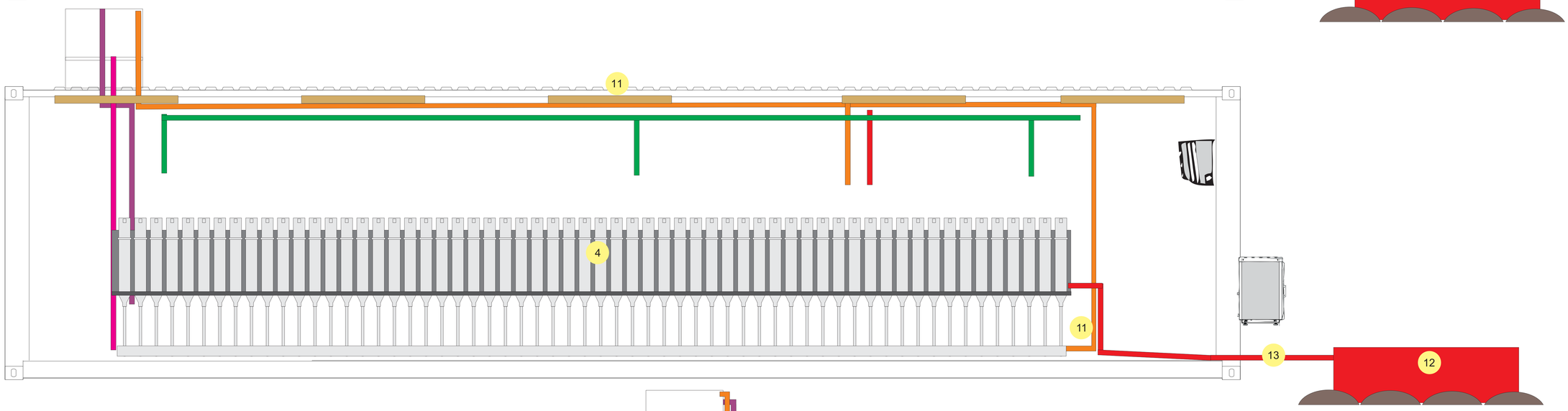

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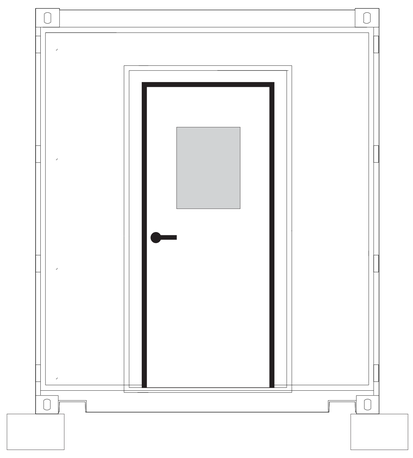

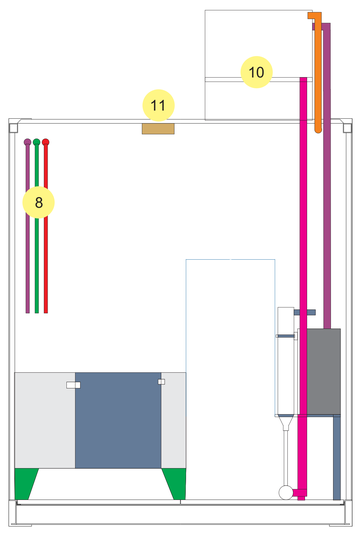

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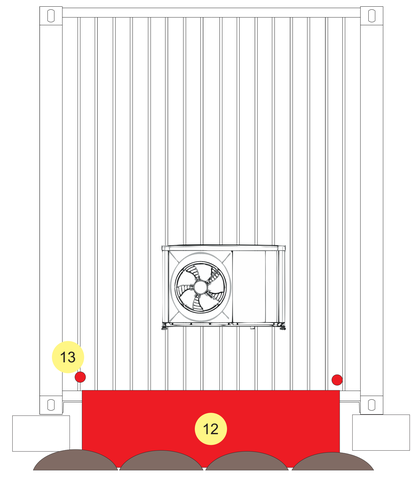

1	STORAGE SHELVING	11	LIGHTS
2	WELLER TANK SYSTEM	12	HEAT RECOVERY SUMP
3	12000 BTU HEAT PUMP	13	HEATED WATER TO SUMP
4	60 BOTTLE SYSTEM	14	
5	AIR	15	
6	SALTWATER	16	
7	ALGAE	17	
8	AERATION SALTWATER AND ALGAE LINES	18	
9	BOTTLE SYSTEM	19	
10	HEADER TANK	20	

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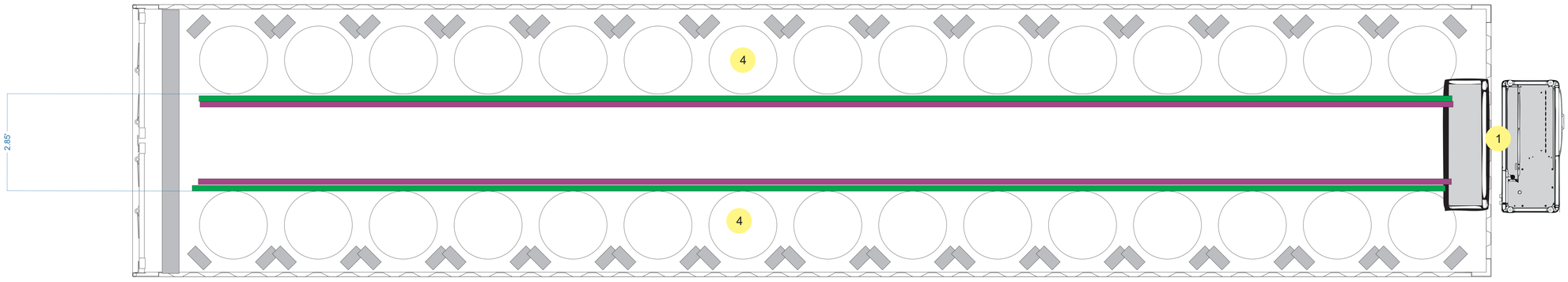

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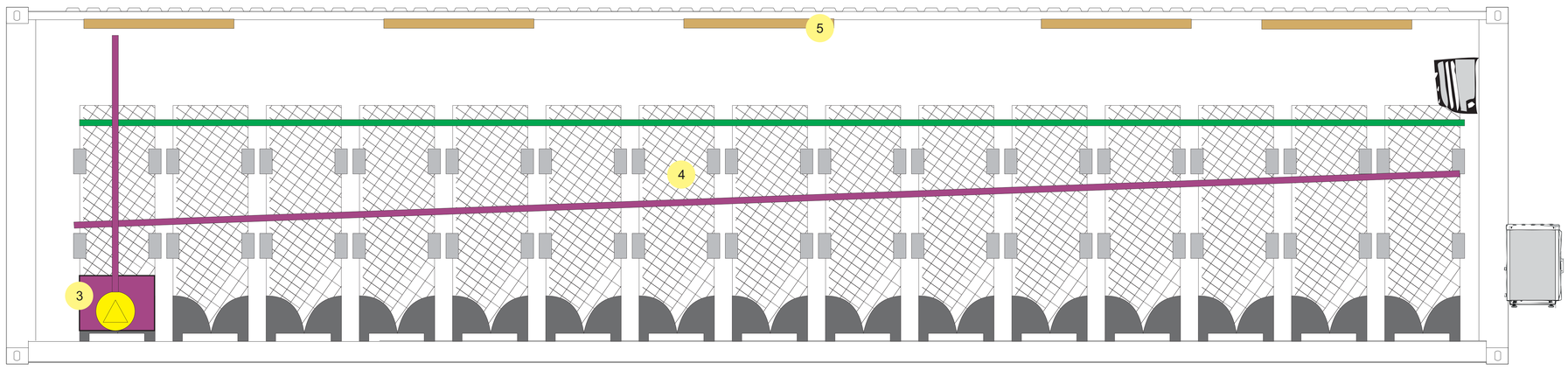

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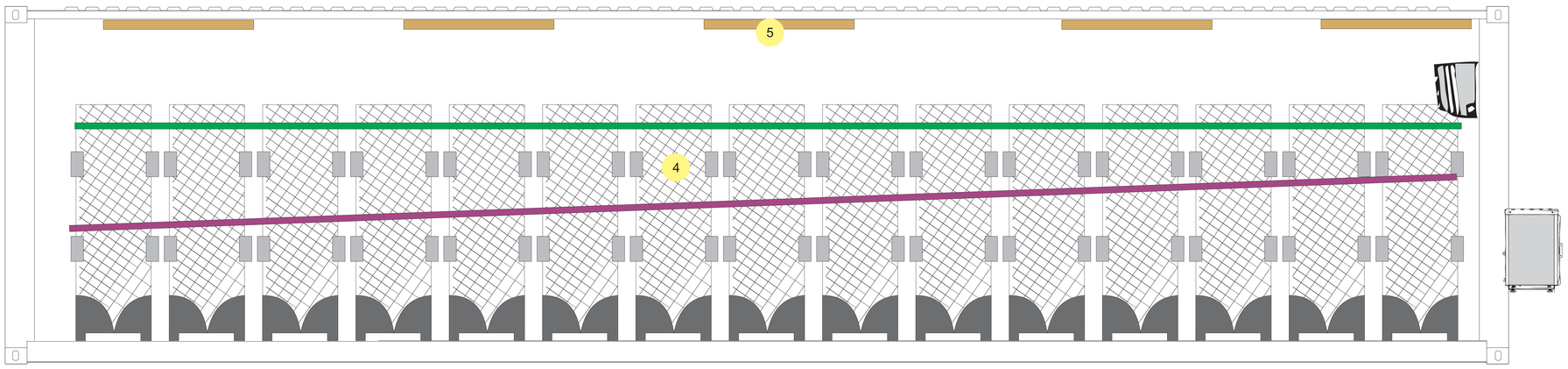

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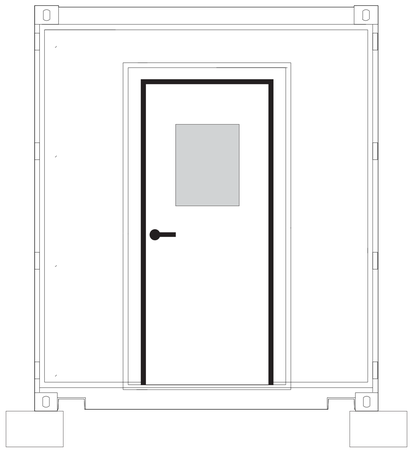

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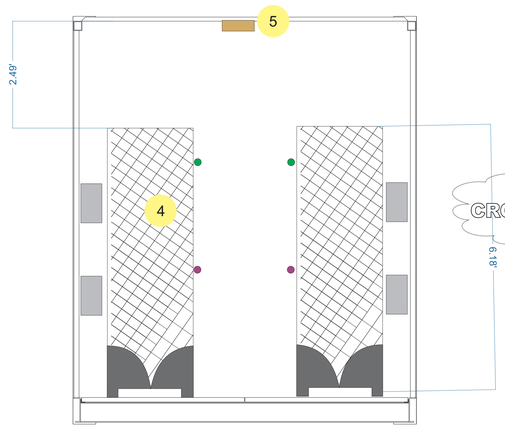

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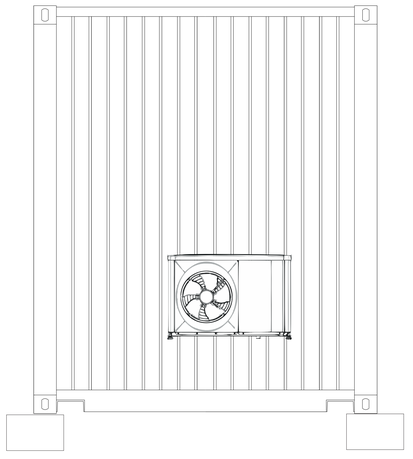

BACK

1	12000 BTU HEAT PUMP	11	
2	REAL TIME HARVEST RESERVOIR	12	
3	SEAWATER AND NUTRIENT LINE	13	
4	500L ALGAE BAG SYSTEM	14	
5	LIGHTS	15	
6		16	
7		17	
8		18	
9		19	
10		20	

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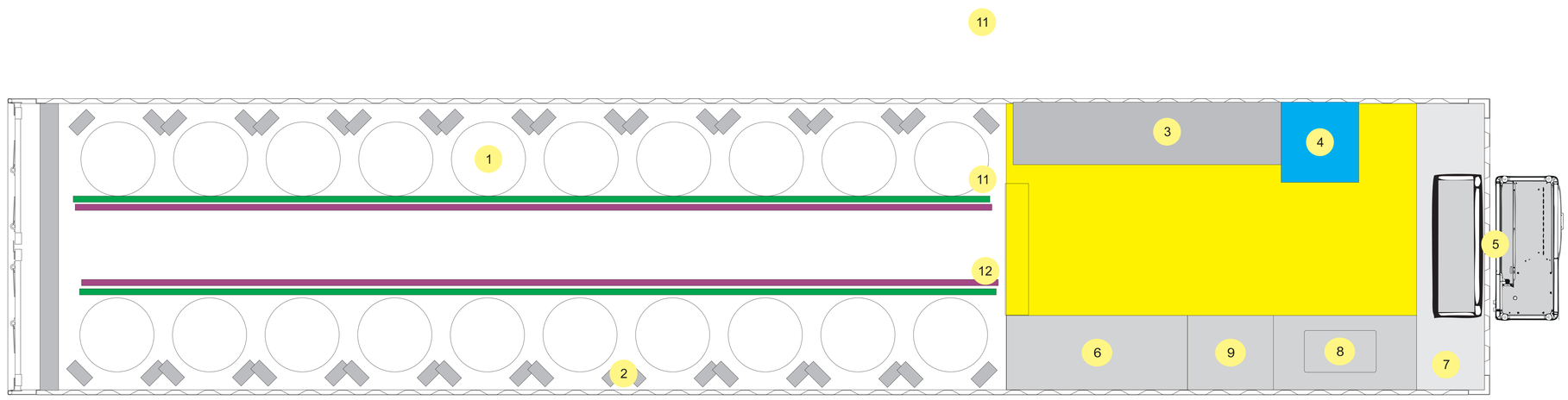

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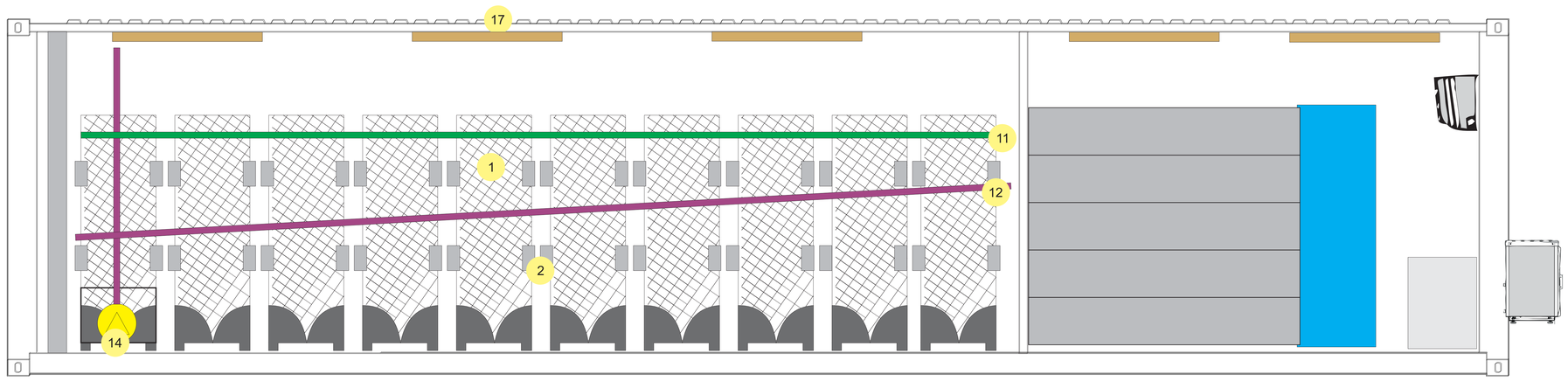

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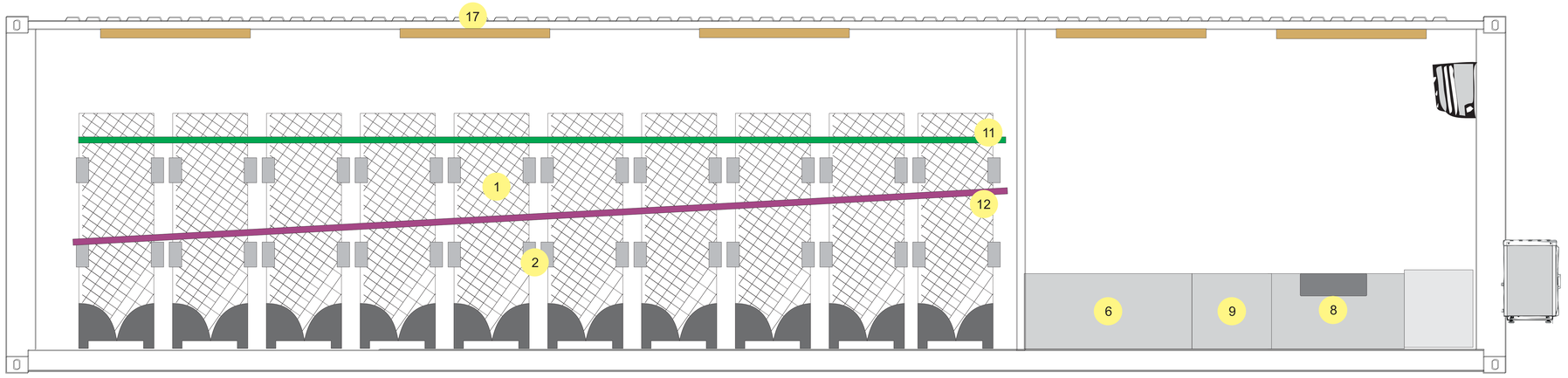

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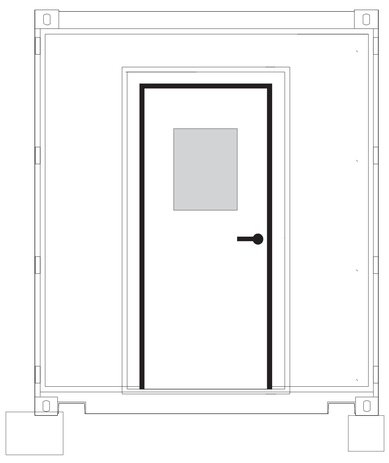

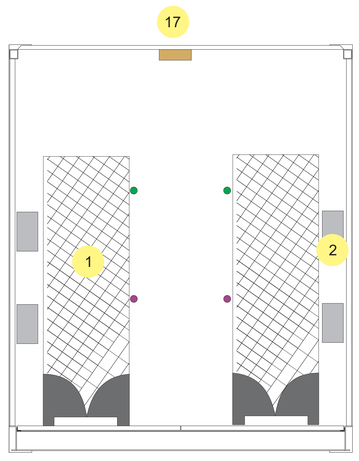

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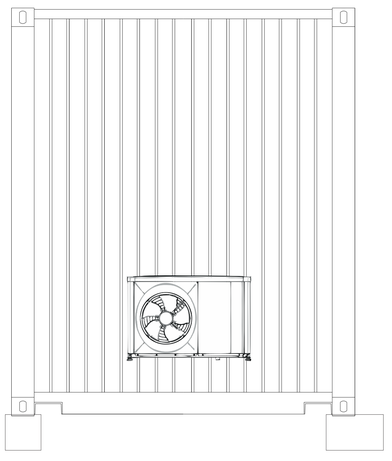

BACK

1	5000 ALGAE BAG	11	INLET WATER AND NUTRIENT LINE
2	LED FLOOD LIGHTS	12	HARVEST LINE
3	FLASK SHELVES	13	REAL-TIME ALGAE HARVEST RESERVOIR
4	FRIDGE	14	SEAWATER AND NUTRIENT LINE
5	12000 BTU HEAT PUMP	15	500L ALGAE BAG SYSTEM
6	BENCH	16	50W LED FLOOD LIGHT
7	TEMPERATURE CONTROLS	17	LIGHTS
8	SINK	18	
9	AUTOCLAVE	19	
10	BENCH	20	

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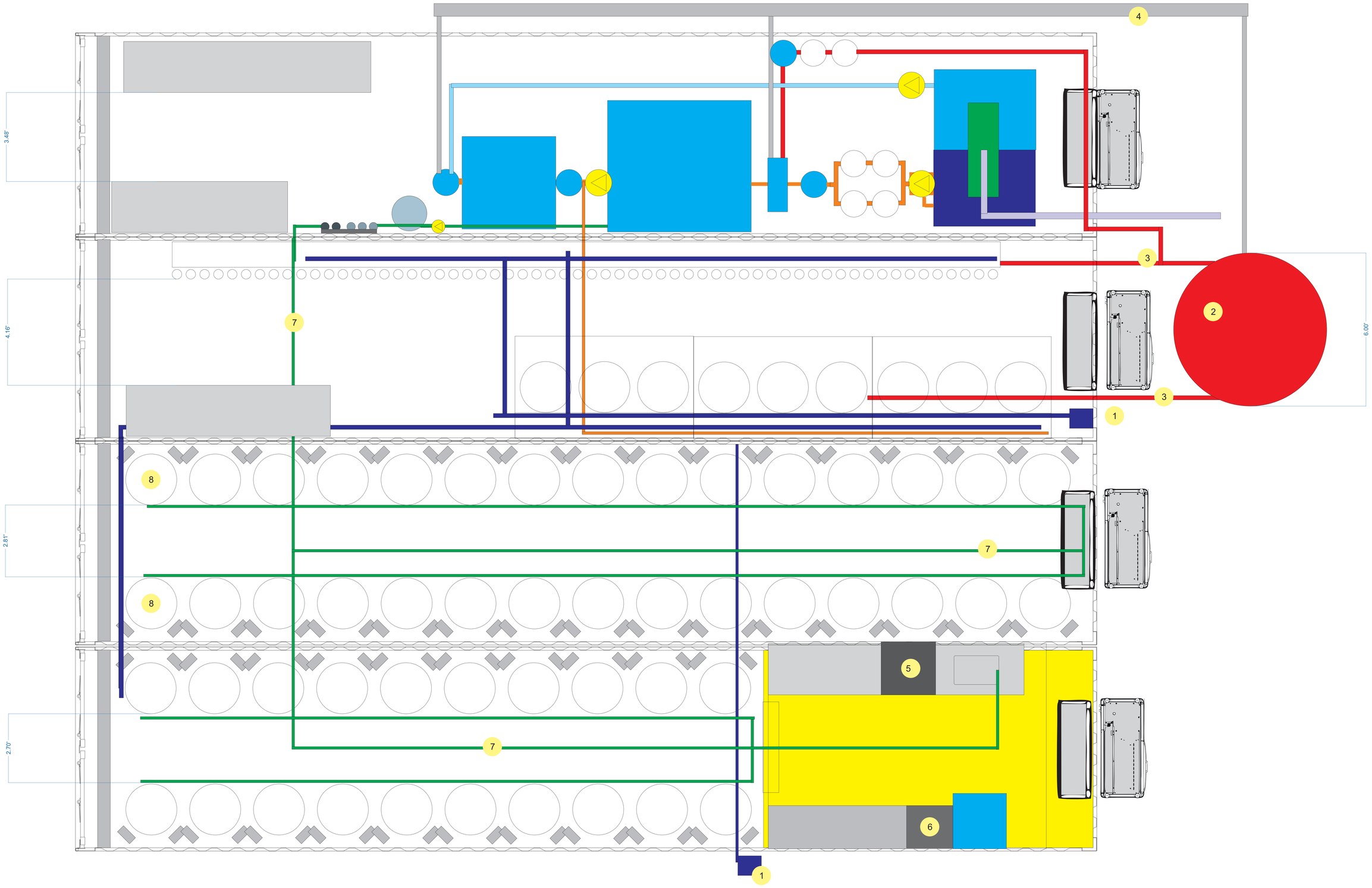

1	AERATION SYSTEM	11	
2	HEAT RECOVERY SUMP	12	
3	HEATED WATER TO SUMP	13	
4	EFFLUENT WATER	14	
5	AUTOCLAVE	15	
6	TRANSFER CHAMBER	16	
7	ULTA FILTERD WATER	17	
8	ALGAE HARVUST CONTAINER	18	
9		19	
10		20	

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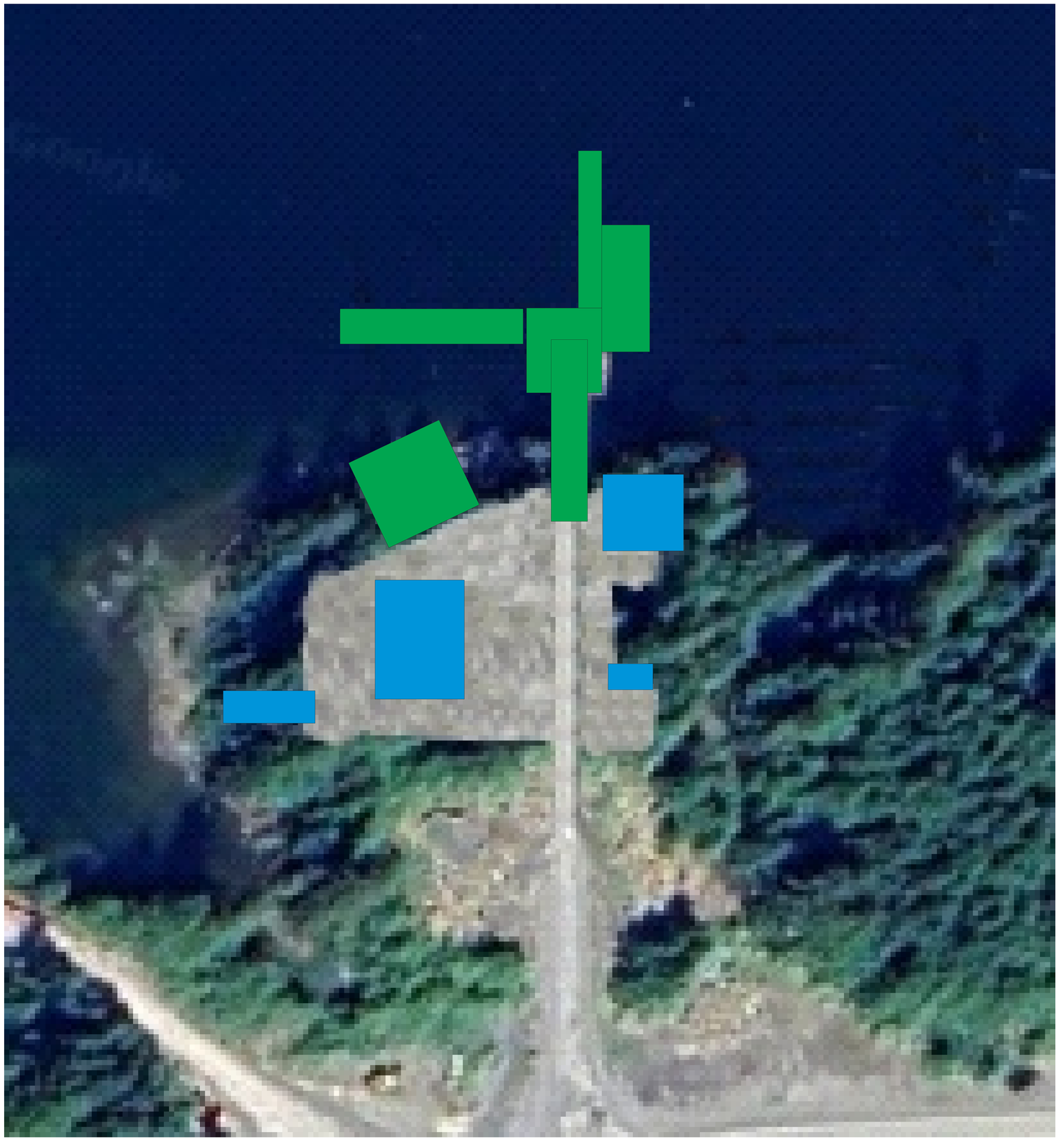
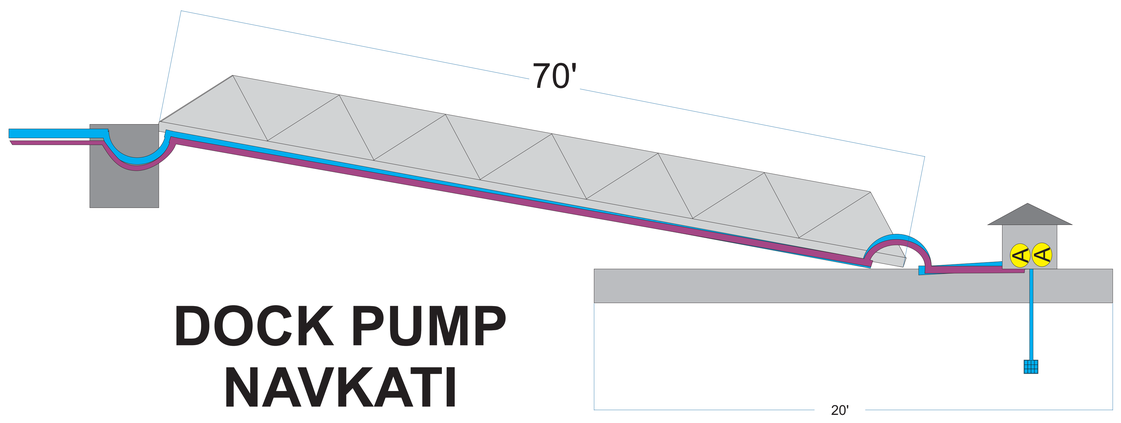


SEA OTTER SOUND LOCATION
NAVKATI, ALASKA



DOCK PUMP
NAVKATI

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