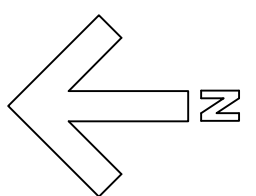


NORTH ARROW



- GENERAL NOTES
- ALL WORK TO CONFORM TO 2006 BC Building Code.
 - BUILDING DESIGNED UNDER PART 9 OF BUILDING CODE.
 - STRUCTURAL ELEMENTS OF BUILDING DESIGNED UNDER PART 4 OF BUILDING CODE.
 - THIS BUILDING IS INTENDED FOR RESIDENTIAL OCCUPANCY.
 - PROVIDE CONNECTION WITH SCALED DIMENSIONS, NOTES TAKE PRECEDENCE.
 - ALL TRAPPING LUMBER TO BE DRY 24HR SPF UNLESS OTHERWISE NOTED.
 - ALL UNITS TO BE 2-2X10 UNLESS OTHERWISE NOTED.
 - Refer to Page 3 for framed earth wall construction details.

- FOUNDATION NOTES
- FOUNDATIONS ARE TO BEAR ON UNDISTURBED LEVEL SOIL BELOW FROST LEVEL. DEVOTE OF ANY ORGANIC MATERIAL AND STEEPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH.
 - MIN. SOIL BEARING PRESSURE OF 2000 PSF.
 - CONCRETE 3,000 PSI (20 MPa).
 - CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) EACH WAY.
 - ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 15# ROLLED ROOFING.

- ROOF NOTES
- 4" ϕ composting toilet vent.
 - 6" ϕ wood stove chimney.

- CISTERN NOTES
- water line from existing deep well
 - potable water from well to sinks
 - low level outlet to outside stand pipe (forestry connection 1 $\frac{1}{2}$ " ϕ)
 - cistern outlet with shut-off valve goes to showers and laundry
 - electrical control wire from cistern to water organizing module
 - shut-off float
 - waterline from well as alternate source to supply cistern
 - 4" overflow outlet (drained away from building)
 - bottom of cistern sloped 1% to sump
 - 6" composted gravel for drainage
 - 4" inlet w/ sediment filter
 - water trough from roof
 - air vent
 - access cover

REVISIONS		
Nov 21, 08	Initial Draft Drawings	
February 18, 09	Full rough set (no engineering)	
February 27, 09	Added water collection and gray water	
March 2, 09	Plans for submission to building authority	

PROJECT: Barkholder Earthship (7397 Yellowhead 5 Hwy, South CAD ONE FILE: C:\USERPROJECTS\DRAWINGS\EARTHSHIP\ITER\BARKHOLD.DWG
DRAWN BY: C. Newton

Ground Slope Load: 3s = 2.5 kPa (rain load 5" = 0.3 kPa)

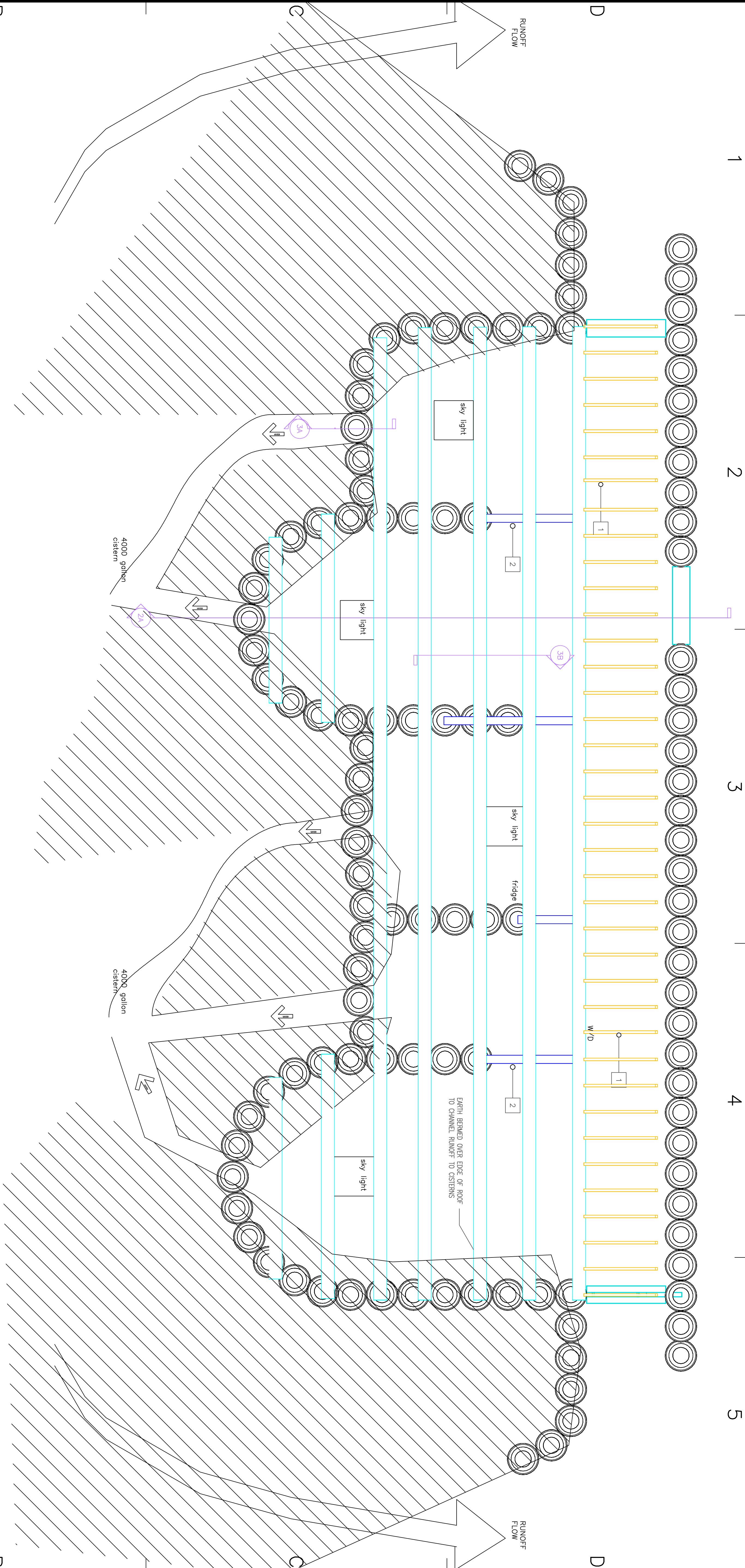
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SHEET TITLE

ROOF & WATER COLLECTION
Scale: $\frac{1}{4}"=1'$

SHEETNUMBER

4 OF 7



ROOF PLAN
1/4"=1'

CISTERN CROSS SECTION
1/4"=1'

POTABLE AND NON-POTABLE WATER SYSTEM NOTES

- All components of gray water and rain water harvesting systems to conform to NSF/ANSI Standard 61 Drinking Water System Components.
- Purified gray water is not potable water suitable for human consumption. Non-potable water systems should never be interconnected with potable water systems. Non-potable piping should be clearly labeled to avoid the possibility of future interconnections.
- All components of rainwater Harvesting and gray water systems must comply with British Columbia Code.
- Harvested rainwater may be used for any purpose within a single-family residence.
- A rainwater harvesting system shall not be interconnected with any other source of water except where an approved cross connection control device has been installed in accordance with CSA B64.10.
- All points of ingress critter-proofed.