



THE ICE IS MELTING



The sins of the fathers...







No Noah's Ark this time, only our hotter whole Earth. /planet Even the most desperate a raft of flotsam will be crushed and washed







FLOOD WATERS RISE

South Miami [my area] is 5 to 10 feet above sea level UNTIL: RISING WATER DOES **NOT** RECEDE ISLANDS AND ATOLLS ARE ALL THAT IS LEFT

ONE MORE STORM TREES ARE BATTERED

Engl

ALL THE TREES ARE GONE! 12 FOOT RISE IN SEA LEVEL AND ALL IS UNDERWATER

> soil is gone, trees and plants are gone, only limestone bedrock remains.

nothing but water--

drown

all land





NOTHING BUT WATER



NOTHING BUT WATER

Complete Study Notes

beneath the sea surface, lies an old builiding material Florida is a limestone shelf... built up of the skeletons and shells of ancient sea creatures

THUS:

a strategy -dig for limestone, build up new stone(s) into lagoon of islands and perimeter mass

at the same time, the dig becomes new shaded pool, cooler, can make a new reef? cut equals fill! solid void.

SEABED OF FLORIDA IS LIMESTONE FOSSIL COMPESSED SHELL (?)

and Florida is virtually all limestone

FLORIDA

Gulf of Mexico

Aclantic

PENINSULA

Lateralizested Ilpenik of Geosciellers. Iter three possis 5 mellinore greates Mars (Frequintan presentin scottan tis Anto careponescent presimit colf filme monorin fatogram administrative polatitioname Proc

Avgpiroximate forequipm of recessions 201000 years atto NOTHING BUT WATER

Z.A **PROPOSAL**

HARD CUT AND FILL

HARD WORKI

THUS: a strategy -dig for limestone, build up new stone(s) into lagoon of islands and perimeter mass

at the same time, the dig becomes new shaded pool, cooler, can make a new reef? cut equals fill! <u>solid void</u>. NO SCUBA FOR A LONG TIME NO ELECTRICITY!! NO POWER!!

a 36 foot cube!!?? the phi of the square base $36 = 3 \times 12;$ $= 4 \times 8 + 4 = 3 \times 8 + 12 = !! Le Modulor!!$ or 31'5" and 50' 10" = Modulor Blue

reef is negative of cave (interior of hous



QUARRY CUT = FILL SOLID BECOMES VOID VOID BECOMES SOLID



STEPS TO MAKE GROTTO 1. copy from building model GROUP (!) level 0, 1, 2, 3, etc... 2. paste in place here. 3. explode group, or... 4. check and repair solids 5. copy solid, paste in place. 6. move 30' (sea square). 7. flip along blue dimension 8. move DOWN 7' 5", or... 9. subtract element from SUB SEA 10. take remaining group, and a. copy and past in place. b. change layer for copy, to SEA, or... c. change layer for remaining group to SUB SEA (again!) d. delete previous ROCK LEFT e. change copy layer to ROCK LEFT repaint as default (gray/white) 11. copy new SUB SEA into template or empty work space paste in place. 12. make new large solid 60 x 60 x 40' deep 13. subtract SUB SEA copy from new solid. 14. remainder is negative of carving same as original solid, upside down 15. copy and paste back in first file. repaint as sea water, layer SEA FILL it is the filled water in the grotto. 16. copy # 15 above, repaint copy as default. change layer to ROCK FILL. this is the guarried stone.

TO START AGAIN

DIG IN TO THE SEA FLOOR BEDROCK

CUT AND PILE UP LIMESTONE make a new dry place sleeping platform raincatcher



<u>c</u>









In Greek mythology Sisyphus or Sisyphos (/ s s f s/; Ancient Greek: $\Sigma i \sigma v \varphi o \varsigma$ Sísuphos) was the king of Ephyra (now known as Corinth). He was punished for his self-aggrandizing craftiness and deceitfulness by being forced to roll an immense boulder up a hill only for it to roll down when it nears the top, repeating this action for eternity. Through the classical influence on modern culture, tasks that are both laborious and futile are therefore described as Sisyphean (/ set for the set of the set of

HARD WORKII EXTRA HARD TO GO UP

The gods had condemned Sisyphus to ceaselessly rolling a rock to the top of a mountain, whence the stone would fall back of its own weight. They had thorught with some reason that there is no more dreadful punishment than futile and hopeless labor.



Albert Camus

PROOF OF CONCEPT: INCLINED HALF BLOCKS MAKE RAMP THEN REMOVE AND REPLACE WITH SQUARED BLOCKS ONLY AT INCLINE INTERFACE. MAKES STEADY NON SLIP WALL, ELIMINATES SHEAR densities and building in lb/cu.ft water = 62.4 lb /cu.ft. wood, cak = 44 wood douglas fir = 33limestone, solid = 163 limestone pulverized = 87 concrete = ~150 brick ~120 -150

EQUIVALENT WEIGHTS A 1' cube of water

= ~ 2 cu.ft. of wood (doug. fir) В C = 3 full 2" x 6" x 8' lumber = ~ 7 nominal 2 x 4 x 8's D (1.5" × 3.5" × 8')

= 1' × 1' × 4 9/16" limestone block ~ two 4.5" × 6" × 12" stone block G ~ four (ditto) pulverized limestone block each of these = ~ 16 lbs. H 1 concrete cinder block = ~ 32 lb

remove half of the 8 x 8 x 16" limestone blockit will have 512 cu in of solid and weigh 512/324 x 32 = 50.568 lb. almost twice as heavy as a cinder block. 2 people must lift it. Hard labor! a block of limestone (F) is 4.5" x 6" x 12" = 324 cu. in. (333cu.in) a cinder block (H) is 8" x 8" x 16" = 1024 cu in.

> thus a limestone block of cinder block size ~ 8" x 8" x 16"... must be 68% VOID!! (~ 2/3) must remo 700 cu in (or 691?) from 1024 cu i

BOTH OF THESE WEIGH ~ 32 LBS.

Cinder block is a name for what is technically called CMU - concrete masonry unit. They come in a variety of sizes and configurations and densities. But as a general rule of thumb a two cell 8" x 8" x 16" block should be about 30-35 lbs. There are light weight blocks which are maybe 28 lbs or so.



CMU cinder block (medium Dense) is ~ 65 lb/cu.ft??

SEE article Balankin, Toward the Mechanics of Fractal Materials

limestone

rough rule of thumb: 1000 cu.in.~= 100lb so 10 cu. in. ~= 1 lb.

if fractal structures

of original volume.

TREE # 1 more properly called Shrub #1 but it makes its own shade (and wind) CMU represents limestone blocks with holes cut in them note: EACH piece is ~ 32 lb. white = limestone

WEIGHTS orange = double weight ~ 64 lb (2 man lift?)



CONCRETE CINDER BLOCK CMU gray = CMU yellow = equal weight ~ 32 lb pink = quadruple weight ~ 128 lb



cube root(0.67) =

0.87503401228

0.875 = 7/8 !!

THE MEANS

Spine L4 bone shaped Voronoi micro structure objec: Great for science / medical demonstration. Perfect for 3D printing.

-bone micro structure -spine L4 bone -3D print WITH PERFECT CUTTING CONTROL AND A REMNANT OF PARAMETRIC DESIGN CAPABILITY, THE STONES CAN BE MADE EXTREMELY HOLLOW, WHILE KEEPING STRUCTURAL INTEGRI-TY-- JUST AS BONES DO.... FRACTAL ITERATIONS MAY APPROACH NEARLY INFINITE SUR-FACE WITH INFINITESIMAL MASS-- LIKE SPONGES.

LASER CUTTING AND CARVING ALSO LASER FUSION WELDING (OF ROCK!) INSTEAD OF MORTAR FOR LIMESTONE BLOCKS???

THE CONCEIT (YES "CONCEIT," NOT "CONCEPT") IS THAT A PERFECT 3D STONE CUTTING TOOL IS COMMONLY AVAILABLE, AND IS THE SOLE REPOSITORY OF TODAY'S HIGH TECHNOLOGY, THE ONE TOOL THAT SURVIVES THE HYDROCAUST-- THE WET HOLOCAUST--THE "WET BURN"THE NEW FLOOD???

THE STONE IS ALSO "PURE", WITHOUT GRAIN, A PERFECT AND FLAWLESS BUILDING MEDIUM, WITHIN ITS LIMITS. NOT IMPOSSIBLY LONG SPANS-- BUT POSSIBLY NEAR-PERFECT JOINTS, AS WITH THE INCA--





how to make stones light and strong as bones??



the fractal principle for cut limestone

0. 3 x 3 x 3 solid cube = 27 cubic units 27/27 = 1
1. cut out center third on each side, project through solid.

then total mass = 27 - 7 = 20 or 20/27 of original cube (lose one cube each side, and lose one in center)

20/27 = .740740....

2. iterate the process-- do step 2 to each sub cube now total mass = 20/27 x 20/27 = 400/729 400/729 = 0.5486968449931413

 thus in 2 steps solid mass goes

 from 1 to ~3/4 to ~ 1/2...!!
 (54%)

 in 3rd step is 8000/19,683 = .406...
 (40%)

 in 4th step is 160,000/531,144 = .3010...
 (30%)





By Niabot - Own work, CC BY 3.0, https://commons.wikimedia.org/w/index. php?curid=7818920









each iteration makes the stone lighter, but requires more cutting.... (and harder to get in those littler and littler holes

practice and experience will find the sweet spot.... to establish a standard perforated stone size and fractal interation.

BUT:

when it is not carving but assembly, then lightness (reduced mass is a free bonus (and increased surface may be a blessing, but increases weathering potential and rate)

THIS IS CRUCIAL TO MAKING EASY AND DCOMOKLEX HABIT-ABLE SPACE. then limit is span and strength of material. The roman islamic/turkish (mughal and ??) and gothic problem....







a day's work: (assume that piling stones = cutting stones)

2 people in one 40 - hour week can build three "solid" 6 foot cubes of $8 \times 8 \times 16$ " blocks or limestone equal

2 people / 1 week = 3 cubes @ 6'

figure 160 man hours per 1000 SF laying (= two 40 hour weeks for 2 people)

hollow-ish limestone 8" x 8" x 16" units a "solid" 6' cube = $72/8 \times 72/8 \times 72/4.5$ 9 blocks (8") high by 9 blocks (8") wide by 4.5 blocks (16") long. = 9 x 9 x 4.5 = 364.5 blocks.

1000 SF of 8" wide wall = 10' x 100' x 8" wide = 120/8 x 1200/16 x 8/8 = 15 x 150 x 1 = 2,250 blocks, or **about six 6' cubes in 2 weeks for 2 people**

does not count cutting or moving blocks!!

2 people / 1 week = 3 cubes @ 6' the 4 walls of $6 \times 3 = 18$ cubes each together are 24 weeks of stone laying

one 6 foot cube = 216 cu ft

so 24 weeks = 18 x 4 x 216 = 15,552 cu ft.





























O ARCHITECTURE



ark faces NORTH not East (lost) ice worship







CARVING SPACE CARVING LIGHT



PETRA and CHILLIDA CAVERNS CANARY ISLANDS







LIGHT



DARK LIGHT HOT COOL







A **limestone** cup of rare fresh rainwater welcomes the visitor at the entry... the closest there is to wine post Flood 2. A new sacrament -- **Borei p'ri hagafen!**

> Late Second Tample 1st Century C.E. RARE Jerusalem Limestone Cup, manufactured for priests and the ritually pure such as the Essenes Ancient Coins – Late Second Tample 1st Century C.E. RARE Jerusalem Limestone Cup, manufactured for priests and the ritually







LATE SECOND TEMPLE 1ST CENTURY C.E. RARE JERUSALEM LIMESTONE CUP MANUFACTURED FOR PRIESTS AND THE RITUALLY PURE SUCH







PAY IS A SMALL BUILDING size of a house, 30' cube MADE OF HEAVY STONES HARD WORK! WE MUST PAY!

COMPARATIVE "THEOLOGIES"

(vs COMPARATIVE ARCOLOGIES)

ALL AT SAME SCALE





PAY the narrative!!! tell the story!!!

CATEGORY 6+ STORM. AFTERMATH











BIG STORM

(ICE MELTS)





THE TREES ARE GONEII ABACO ISLAND, BAHAMAS, DORIAN. this is when the watwrs still can recedel (Concrete pads not submerged, JBF.)

















The gods had condemned Sisyphus to ceaselessly rolling a rock to the top of a mountain, whence the stone would fall back of its own weight. They had thorught with some reason that there is no more dreadful punishment than futile and hopeless labor. Albert Camus

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HOW TO CUT THE STONE???

NO MORE WOOD, NOR METAL. NO MORE TOOLS! BUT... A VERY SMALL MIRACLE ...? no more tools---it's all Worst Case Scenario!! but there is a reprieve: one thing found in hte Survivor?



and in a survivor's pocket. A MIRACLE... last vestige of the old high culture and toch.. a Light Saber Pocket Tool survives!! (for mote, see below) this enables a strategy....



each iteration makes the stone lighter, but requires more cutting... (and hard to get in those littler and littler holes practice and experience will find the sweet spot... : establish a standard perfo-BUT: when it is not carving but assembly, then lightness (reduced mass is a free bouns (and increased surface may be a blessing, but increases weathering potential and rate) THIS IS CRUCIAL TO MAKING EASY AND DCOMOKLEX HABITA-BLE SPACE. then limit is span and strength of material. The roman islamic/turkish

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50



CENTRAL RAIN CATCHER, THEN FLOOR EXPANDS OUT, MORE RAIN... NO GLASS OR PLASTIC, CAN'T DISTILL/EVAPORATE CONDENSE EXCEPT THAT SUM WILL DO IT FOR YOU, IF YOY CAN CATCH THE RAIN---NEED VESSELSII

https://www.youtube.com/watch?v=f775Kdyn-11

SOUNDS OF THR OCEAN-- 11 HOURS ON YOU TUBE

























remove half of the 8 x 8 x 16" limestone block-it will have 512 cu in of solid and weigh $512/324 \times 32 = 50.568 \text{ lb}.$













Dense aggregate blocks have a density in the range 1800 – 2100 kg/m3 (= 112 to 131lb/t3), while light-weight aggregate blocks (otherwise known as Medium Dense) have with a density in the range 650 – 1500 kg/ m3 (= 40 to 94 lb/t3). Aircrete blocks have a density indexempt 600 000 blocks of 20 for 67 lb/t3 ull have 512 cu in of solid and weigh 512/324 x 32 = 50.568 lb. almost twice as heavy m3 (= 40 to 94 lb/ft3). Aircrete blocks have a de in the range 400 – 900 kg/m3 (= 25 to 56 lb/ft3). 1000 kg/m3 = 62.4 lb/ft3. USE THIS. (same as w. $\label{eq:stars} \begin{array}{l} 8\times8\times16^{\prime\prime}\ {\rm CMU}=2/3\times2/3\times4/3\ {\rm cubic\ feet}\\ {\rm so\ 1\ {\rm CMU}=.59\ {\rm cu\ fi.\ But\ if\ it\ weights\ only\ 30\ -35\ Bs,}\\ {\rm then\ lightweight\ (medium\ Dense)\ block}\\ {\rm at\ 60\ B\ is\ 50\%\ void.\ (31.2)62.4=50\%)} \end{array}$



a day's work: (assume that piling stones - cutting stones)

Hard labor!



KEYSTONE AND ABEILLE THE PROBLEM OF THE SPAN

when there is no wood -- when there is only stone-- there is no element of real tensile strength. No cantilevers, no large beam spans. Only STONE. Limestone is "mined" from the now flooded old subsoil of the ancient Florida peninsula sea-creature deposits over millions of years-- proto and archaic coral reefs creating the entire peninusula.

The only way to span with stone is using gravity and friction-The only way to span with stone is using gravity and friction-compression and geometry make a keystone whose whethget and wedge shape displace the spanning stores beside it. Here without tools or machines, human filting strength limits the size of the store—say to the wight roughly of a cinder block—and thus a span of about 16% for the key stone and one stone con each side. With S people-2.10 hold the side stores, can to the or the dystone in place-- a span might be accomplished through brute strength. (tough on a minimally diverse dist.) All 3 people might have to stand on stones to make a span above human height.

Important to keep in mind-. probably these stones cannot be hollowed like CMUL, wouldn't the load soon (or later?) runsh the gaps between the webs. Volo epon web joins here?! This is golds, and Renissance architecture at best. Velot Le Date is instructive. But the yard Rimma archites require formwords-. light and strong-made of WOOD. AND THERE IS NO WOOD, XTET!!

In architecture a corbel is in medieval architecture a structural piece of stone, wood or metal jutting from a wall to carry a superincambent weight,[1] a type of bracket.[2] A corbel is a solid piece of material in the wall, whereas a console is a piece applied to the structure. A piece of timber projecting in the same way was called a "tassed" or a "bragger" in England.[1] The technique of corbelling, where rows of corbels deeply keyed inside a wall support a

projecting wall or parapet, has been used since Neolithic (New Stone Age) times. It is com-mon in medieval architecture and in the Scottish baronial style as well as in the vocabulary of classical architecture, such as the modillions of a Corinthian cornice. Hindu temple archite Contrast a iscunce output alout an observation. The a Octomational Control, rathing tanged a ture and in ancient Chinese architecture. The orbel arch and corbel yould use the technique sytematically to make openings in walls and to form ceilings. These are found in the early architecture of most cultures, from Eurasia to Pre-Columbian architecture.[note 1]

A console is more specifically an "S"-shaped scroll bracket in the classical tradition. Consists in more representing in a "simpler neuron formation for the first illustration over, with the upper or inner part larger than the lower (as in the first illustration) over, Keystones are also often in the form of consoles.[3] Whereas "consel" is variety used outside architecture," console it has whether the set of th arts where the motif appears.

The word "corbel" comes from OM French and derives from the Latin corbellus, a diminutive of corvus ("raven"), which refers to the beak-like appearance.[1][note 2] Similarly, the French refer to a bracket-corbel, usually a load-bearing internal feature, as a corbeau ("crow").

from Wikipedia -- corbel



Most of the issues related to the memonomy of the quoted system are solved; the automatic design of each vaults is made accessible starting from the choice of a topology and a five geometric parameters. A finite element mode

Examples are given of optimal choice

17th century??

Kerwords 1. Introduction In 1699 a bond for the construction of flat vaults was invented by Joseph Abeille (Gallon, 1735), a when, its how any presented and standard by Frizine (1737 septem in supported variant s and the list of the second standard by Frizine (1737 septem in 1960). These findings of building system that, made of shorter elements than the space, could create a space set bird of standard vanit, if flat, clearly blocked whatever straightforward avoid second s

passing through the centre

Download full-size image Fig. 1. Perspective views of a portion of an Abellie's flat vanit (a) mounted, (b) exploded. This vanit is smooth extrades and a curved imrades, nevertheless the bond is stable also if mounted upside-down. of the vasilt and have railed contact surfaces between stones.

no wood, even for scaffolds--

hard to place voussoirs nd key-

so far (as of 6/4/2014-- and PAYH scratch 2.16 .skp , w = w₁ αυ αυ την αυτφ- num PATH teritfa 2.10 skp, these simple arches themselves will ignoreate horizontal thrust, which requires counter-arches to keep them in equilibrium - on ech side of the supporting pircr., this has many problema. Likes up room, compromises headroom and seems delicately unstable, yet heavy and ponderous.

AND IS FUCKING UGLY. Piers are too close together, arches in every direction are unrelentign and kill

any spacial continuity. WE NEED TENSILE MEMBERS!! REBARS AT THE VERY LEEAST.

CAN WE USE WOLF HILBERTZ" wonderful ideas of photopolymerization or simply generate electicity through wind power to precipitate out minerals in sea water to solidify catenary cables into limestone. But alas, the catenaries must be metal themselves. Where to find cable, or chains, or...? to make link ends of cathode and anode to generate a current and charge to collect the "calcification" as in a leaky auto battery ??

11 - 4.8



0







The St Mary of the Resurrection Abbey is one of Jerusalemis most valuable witness of crusaders' architecture. The site is one of the five French domains in Jerusalemi including the Tombo of the Kings, the Pater Noster, Sainte Anne, and the French General consultate.

The church was built in the 12th century by the Crusaders. Its architecture offers a complete example of what was the architecture of the Crusaders in Palotstine, a combination of different architectural elements that they brought from abroad and local elements that they found in situ.

The newly built flat stone vunit is an extension of the monsatery's shop. Archi-tecturally, it consists of a justposed volume addition. However, the strategy dimagnation in the ideo us not ray out the formal aspect of the architectural demonst but rather on the construction techniques: the new shop is thought as a stone structure, built less most of the architecture of the monstery – in-cluding the churchic crypt – the soundness of the structure refers on a deficate work of directorium.





Fig. 2. Von Mises stresses [Pa] in the vertical cross section of a typical Abeille's flat vault rig. 2: you status stresses, [rs] in the vertical cross section at space Advances into value shall versiting on ideal smooth contacts on two fixed similar stores and bearing a verti-load of 50 kN equally distributed on top of it. The discharge arch and the tensile rone bar exclusive observable; the highest tensies appear next to the upper surface, where the 1 effect of the applied load and the arch's thrust cumulate.

> ORDER OF ASSEMBLY AND BOUNDARY CONDITIONS

http://aauanastas.com/the-flat-stone-vaut-is-completed/



https://www.sciencedirect. com/science/article/pi/

paper concerns the issue of

11 1 1 1 井 井 寺





In fact, as already noticed by Fesisier (1737 reprint in 1986), such ashies, law works to base in a Soffair floor, supports two neighboring addars and is supported by two others. The support is not single though as it happens for worden induce, because the indication of the joints indicates a did threat. Thus, these transfer case dischares have been indicated as the provident indication of the provident indication of the transfer of the provident indication. bending resistance larger than standard can be obtained for unit thrust. As a co to construction to withstand its soft swirht and the usual vertical loads was early The static performance of the system has recen

a observed in experiments (Fleury, 2009)

ood to build only a few flat waalts in XVIII and XXX cormary's Spain (Rabasa-Di e restorms have lately received a renewed attention for the design of curved surt Abeille's and derived bonds were us 998, Nichilo, 2003, Ura, 20031, these te morphology of the vasit has been proposed by the authors of this paper (Reccato and Mondardini, 2010, nd Mondardini, 2011), some unreablehed variants are resected here. In addition, this paper focuses on the much remaining, are ry, door imposition in the set of the personnel mine, in addition, and population of the set of the bonding and presents a method to derive it

Notice that AbelBci flat vash mibility relies on threast as it happens in standard vashed systems, bur-coccurs in these systems—here each stone withinstand loads as a compressed deep beam. The infinitesimality is the standard temporaries from the standard beam of the stark. We have substantiate the stark of the sta

To support this description, in Fig. 2 we show the von Misos stress map in the vertical cross section of a single Abeille's flat you't addar with ideal contacts and load. The computation was performed using the model and successful over will he



HOWEVER







180

territor or

PREVAILING WINDS SOUTH

Wind. Over the winter prevailing winds are out of the north across the panhandle south to near Orlando, but are varia-ble in the rest of the state. The summer season sees gener-ally east and southeast winds across the peninsula.

TERRAR





Pairing a large outlet with a small inlet ncreases incoming wind speed.

Kippen climate type

100 +

PREVAILING WINDS SOUTH FLORIDA



Wind. Over the winter prevailing winds are out of the north across the panhan-dle south to near Orlando, but are variable in the rest of the state. The summer season sees generally east and southeast winds across the peninsula.

PROGRAM: SANITATION

where to put the outhouse? CAN IT BE THE LONG ARM OF THE FINAL PAYH??? IE TO THE EAST?? well, if the winds come out of the east, toward the west, then the outhouse can't be to the east, is the long extension of the final PAYH. but what can be raid then does outhouse come from NorthWest?

NEXT florida currents for location of outhouse?? currents come from SW around Brolida peninsula towards NE. If no peninsusula (Iffooded, underwater) then currents come even more directly from S and W? so in general currents flow SW to NE. Less rapidh more stagnant if no dry land??



Asil S P -----













OR

Novereet, minimum clope for a flat soof by building code here is 2%. (1)4° per 1'). You have more than enough clope for your real, however you will likely need come surt of membrane roofing



RAINWATER: HOW MUCH RAIN?? at least this, when land still prevails,



so $4^\prime x \, 4^\prime = 16 \, {\rm ft}^2$ is more than enough for 1 cubic foot of water in a 1 $^\circ$ rainfall. 24' x 24 ' Rainfloor = 576 ft' 576 ft'/16 = 36 cu ft of water = 36 x 7.5 = 270 gallons A low-flow showerhead uses about two gallons a minute, or 20 gallons for a 10-minute show A standard showerhead uses 2.5 gallors a minute, or 25 gallors for 10 minutes. Feb 13, 2014

washing? cooking???

drinking water need: average adult in temperate (1) climate--about 3.7 liters or about 1 gallon per day a cubic foot of water is 7.48 gallons, say 7.5 gallons so 10 people need: about 1.3 cu. ft of water per day. a 6 foot cube = 6 x 6 x 6 = 216 cu. ft a 6 foot cube of water = 216/1.3 = 166 days of drinking water fi











- = 6 days drinking water for 10 people 24' x 24 ' Rainfloor = 576 ft²
 - ADD ROOF TOTAL WATER GATHERING AREA = sav 32'x 32'
 - 480 / 1.3 = 369 days of drinking water for 10 people -- SAY 1 YEAR



The FIRST MODE CUE AND SQUIP - TIMEMIA THE FIRST MODE CUE AND SQUIP - TIMEMIA SO EACH OF THE SCHERE AND SQUIP - SQUIP - SQUIP CAN COLLECT 3 CUFT OF WATERINA 1 "RAMPFALL ALMOST ENDUCHFON 10 POEDRE FOR 3 DAYS (3 x 1 x 16 th') / 13 – 399 out. (10 poepk x 13 cuft - 3 DAYS1 or is; 30 days777 enther way is cut buil sket this got a gott other way is cut buil sket this; 30 days777









RAIN drinking water storage



each of the 2 full blue drums (as shown here only half full) can hold ~ 24 cu. ft = ~48 cu. ft.

48 /1.3 = 36 days of drinking water for 10 people. Say 1 month + DOUBLE THIS!! = 96 CUF1





IF FLORIDA HAS average 60 inches of rain per SYN4GCOCUI PANH footbol can gather a years worth of drinking water in about 2 months? (60)(60 = 6.15 times needed total is gathered. So 1/6 x 369 days = 61.5 days – 2 months

COMPARE 64 cu. ft. with 2 X 48 cu. ft. = 96 CU FT. a 1*rainfall over RVH = 64/96 2/3 capacity

A limestone cup of rare fresh rainwater welcomes the visitor at the entry... the closest there is to wine post Flood 2. A new sacrament – Borel p'ri hagafen!



1000



32'x 32' = 1024 ft² 1024 ft²/16 = 64 cu. ft. of water = 480 gallons

















NOT VERY PLASTIC AFTER ALL!

4. THE NEED -- COMMUNITY!! (PROGRAM - HOUSE IN A MOUTH) PROGRAM STILL TO SURVIVE, TO BUILD, (2 TO LIFT A BLOCK / STONE) FAMILY + REFUGEES = MINYAN + = BUILDERS + shower. kitchen (food prep) storage: food plus? fish pen (in sea) ' o The Need tables seats group eating? 3rd fl N so far away? music speakers podium (S porch FL 2?, minyan/bimah audience on floors "oil lamp" ??? sun porch (FL 3) dry racks (dried fish) smokehouse (lox, someday...!) shade porch (FL 3) sukkah overhead grid--

A GATHERING OF SURVI-



2 റ 5 PHE = 80 - p * or - f * 4 mouth, opening v entrance, to termand, speak, Hebrew Letter Meanings Char

damp soil? hydroponie

way to limit evapora

ace of maximum sun,

plus fresh (rooftop gathe

seed landing area

and dry clothes?

9

needs work

an echo chamber

en, a beginnir e, present

right is font DAVID. left is Alefbet



subtraction, house in a mouth

귀원 Pey: Mouth cavity of mouth from cavity of skull (mind). קער Pa'ar: To Gape, To Open Wide p 256 + Ginsburgh, p. 61 Kushne Patach: To Open





All creation singing its song Ginsburgh p. 254 Communication: The Oral Torah



already 3.8 2019... something May 29 2019 6 PM AUL HORNII in the Taj Mahal INSIDE (the album)





not drawing...

(6467h4e64888e0d ine

the virtue of darkness

https://i-hl.winimg.com/564x/a9/10/3d/a9103dcfeb1ad1h

9





pei, pey, peh, pay... mouth, oral tradition.

CARVING SPACE

CARVING LIGHT

CHILLIDA CAVERNS

CANARY ISLANDS

1 1 1

PETRA and

mouth speaking follows eye AYIN seeing

music silence and sound words without labels. jazz "all creation singing its song

here the awareness of physical time and spi Ul creation singing its song Ginsburgh p. 254

nication: The Oral Tora

Ginsburgh p. 251 rs platform?? (south side porch ssion of the law oral traditon within --enter of] the labyrinth--- study table for reading and

May 29 2019, 6 PM PAUL HORNII in the Taj Mahal INSIDE (the album)

March 7 2019 6 PM



to keep it small, catacombs sleeping "lofts" montive coffin boxes a la Outland or Toky IT'S A CAVE!! survival tight fit. spelunking!!

THE PROBLEM appears early this time before April 1, 2019. no fooling! (3/27/19- 20 days after start)

issue: make the Sleep Wall work and fit must hold 6 to 8 sleepers on each side of cube must allow vertical circulation, without stacking stairs, since it must be "carved" from limestone rock cube ... and as usual, it's not easy-- and/or I don't see it...yet

more or less resolved, by June 25, 2019....

1. issue: make the Sleep Wall work and fit must hold 6 to 8 sleepers on each side of cube must allow vertical circulation, without stacking stairs, done! Use corner stairs and only one flight up from FL 2 to FL 3 [DONE. check]

2. control entry, and solve stairs and sleep wall and make proper access AND isolation to the SANCTUARY ... all at the same time, and all so the PAYH (and the BAYT!) still reads in plan and section! [DONE. check]

3. rain capture and run-off. fresh water storage?

4. Abeille, for flat floors and spans, vs. vaults and arches. thickness of ceiling to floor space? Insert them. construction? Lifting stones?

BUT NOW-- (6/26/19) THE NEXT MAJOR QUESTION:

2. how to work out spacing for lagoon and FL 0 and 1? what about these damn ramps to slide up the stones?

not easy, and it's not working. that's a good thing. the parameters are emerging and closing in....

orome wirrow in whole regio

History & Reconstruction The Semitic word pey means a "mouth" and there are several ancient Semitic pictograph believed to be this letter, none of which resemble a mouth. The only exception is the South Arabian pictograph. This pictograph closely resembles a mouth and is similar to the later Semitic letters for the latter pey.

Pey

Ancient Nam Pictograph:

Meanings Sound:

(and THE PROBLEM is still unsolved)



The minimum requirement for a synagogue is that it is a synagogue-- a place for guthering together (for worship and study and...) it is a minimum unit of community for a particular group of people.

but if they do, they are already in the place of prayer, does this make it more sacred or less

double this is 2 families, or 12 adults, equals minimum 10 + 2 reserves, and 1 for each tribe

not so much thriving as surviving, enduring, cooling, filtering, sequestering, until the earth cools down again, enough... for ALL THE LAND to be habitable-- for the seas to recede somewahat, fo

ice to come back, a little, for coral to regrow reef, as in this pool/quarry/reef in front of synagogu

now many people on rooms Arts: so the minimum synagogue house is accomodation for 2 -- to live eat sleep pray ...??? 3.12.2019 Prince aroune man and dad of Messed memory + 4 children: 12 + 4 = 16 altogether, twice Noah. 3/24/2019. (twice 3.24 = "twice" 3.12)

the Minvan determines what this minimum is --

how many neonle on Noah's Ark?

10 adults to pray together, conduct service ... alos study? also ??

So the minimum self, austaining unit of daylling as proper and vice versa

s 2 families -- calculated as 2 children (below 13?) 2 parents 2 seniors 2 elder

4 senerations steady state replacement of births to deaths in a non-violent world roviding 6 assured adults for prayer at minyan.

They (the minimu 10) do not have to live in the synarous

eating feeding growing raising preparing cooking reari

House in a Mouth Mouth in a ?? (house? field? sea-as-field soon?)

filter plastic, use as aggregate, reduce in sea. each little synagogue if 4,000,000 people in miami. if flooded area – 200 x 200 miles, then 400000140000 – 100 people /ug mile. 10 x 10 home/synagogues –500 x 500 ft /unit – 1 acre + ?????

how to control entry, and solve stairs and sleep wall

and make proper access AND isolation to the SANC-

TUARY ... all at the same time, and all so the PAYH

(and the BAYT!) still reads in plan and section !!! it's

THE SNAG-- (before April 15, 2019)

1. What is the nature of the N and S sides? what needs to be dry and cool, what needs to be dry and warm. what needs to be not too dry and warm? (paper storage, books, torah scroll - vellum/parchment? from where? just magically survived?) where is eating, cook ing, torah storage, fireplace, music hall?



REVERBERANT MUSIC

http://cool.conservation-us.org/byform/mailing-lists/cdl/2010/0065.htm











editions of the mascretic text. This pictograph has the meanings of "speak" and "blow" from the functions of the mouth. This letter also means "edge" as the lips are at the edge of the mouth. There are two sounds for this letter, the stop "P" and the spirant "Ph" (f). some have special names.

The division of parashot found in the modern-day Torah scrolls of all lewish com important attempts were made to document it and create fixed rules.

40% max humidity, good ventilation hese 2 are antithetical in PAYH environment bot florida laeoon...] com/how-to-maintain-a-sefer torah.html

the problem of storing parchment, vellum, torah???

A MOUTH! TEETH IN A MOUTH?!

ng to end each year. rotate Torah scrolls on a yearly basis. However, this is not the most recommended progr.

If readers of this lot will ferring on in-

National Concervation +44.845 136 2223

Open, Bå P (stop),

and unsourced by parameters in the provided by Mainoriday is an Astronov any portion beaming and as a second decrarata and Torah Scredit, chapter 8. Mainonides based his division of the parabotic fer the forth on the Aleppo Codes, [2] The division of parashot for the books of Newline and Kenne an new completely standardized in printed Hebrer bibles and handwritten scredits, though n scrolls, thour

estimative bibliography in my chapter on the topic in Conser-Leather and Related Materials, edited by Marion Kite and Re

DAMP AND MOLD !!

ark faces NORTH (lost) ice worship

referred to metal clasps as they can dig

Parashah From Wikipedia, the free encyclopedia ump to navigation/jamp to search (his article is about section divisions throughout the Tanakh. For the weekly portion (Parashat

HaShavua), see Weekly Torah portion. 5 7 3 B

The division of the text into parashot for the biblical books is independent of chapter and verse numbers, which are not part of the mascortic tradition. Parashot are not numbered, b

Incorrect division of the text into parashot, either by indicating a parashah in the wrong plac or by using the wrong spacing technique, balakhically invalidates a Torah scroll according to Mainwardshi



A DRYING KILN!! FOR ALL THINGS!!??



6/16/2019 Fathers Day 8:03 AM THE FIRE PLAC sanctuary IS the sacred fire place sacred WOOD, when it finally grows can keep the sacred PAPER book ZOROASTIRAN? FIRE WORSHIP??? (or sacred (or sacred LIBRARY, of BOOKS?) (parchment vellum TORAH) drier, less humid area -- dry heat-- smoke... SOME DAY. https://www.thesofercente com/how-to-maintain-a-sefer-torah.html BOOK CARE TORAH CARE! DRY VS DAMP



THE NEXT MAJOR QUESTIONS: (6/26/2019) N and Sxides? dry(cool vs. dry)warms not too dry(warm? (paper storage, books, torah, sun-dried foods (fahi and ?!) eating, cooking, torah storage, freplace, music hall – where? 2. Jagoon, ramps? 3. rain capture and run-off. fresh water storage? 4. spans value factor. floor space in exclosit? construction? Lifting stones?





бе I



FC.







ù 🔳







3:47

DUN

a file













COMPARATIVE "THEOLOGIES"

(vs COMPARATIVE ARCOLOGIES)

ALL AT SAME SCALE



25*51'06.86" N 80*16'41.29" W

1.2

a the main the second second

red square is 200 feet on a side. 1 acre = 208' x 208' 1.5 red squares = 6 lots these are 1/4 acre plots Miami Florida population = 463.347 (2017) If 4 in a house, then 16 people per acre. 640 acres/ sq. mile 16 x 640 = 10240 people / sq. mile Area of Miami = 55.25 sq. miles density is 8,386 / so mile.



site plan

rest here...

density study AT THE SAME DENSITY??? Hialeah area south Miami Florida

let's say we come to



The scola tower built in the 17th century, as a part of defensive systems for the republic of genoa Located in #laspe-zia #italy

labrack Austria) count the stones??!!

http://www.biorock.org/



Barnard and the second second

The story of Biorock is a good example of how technology and human innovation are imported parts of the store of the containty of present of the store of the motivation behind World Oceans Day, eddenated new parts of the store of the store





BUT IT IS ... ARCH-ITECTURE.



isn't there a way to make a flatter arch??? problem is if the stones are too thin in depth, they will crack under their own weight. What is that about? Crystalline structure?? so much prettier with just catalan vault-shallow smooth, airy-- but what holds them up? where are the supports??? meed beams or carrying girders a la LC's Maison Jaoul or better Villa Sarabhai









a "pillow problem"







LIGHT SABER POCKET KNIFE!! XYZ cube. In stop. Down stop. Across thru. \$6183kjb# friedman In 3x3x3 cube, inside XYZ intersec In 4x4x4 cube,inside XYZ abuts. In 5x5x5 cube, inside XYZ can mis

Inside X, Y, & Z can vary in each x y or z, in each XYZ, in each chord. A "chord" = a set of XYZ dimensions So a 2x2 X abuts a 3x3 Y and can miss a 1x1 Z. A 5x5x5 is the minimum for interior flexibility and exterior integrity. Rotations allow for infinite variety.

Surface areal A Hock of merger sponge has 6(3:02) = 54 marface squares to start as a 4-cabe, and 3ctA2 cabes = 27 volumes to start. First Iteration of control square-odos subtraction from each side + intersecting cabe at content = 27 - 70 synthms, eró 2023 ef designal monger sponge. This surface and increases to (3:03 - 1) = 8 squares + 4 inside * 12 × 6 side = 72 total, 7254 or eV of oreginal surface. Surface to volume aimed solution, while exterior denies of Rick strays team to 12.

Next iteration: each sub-Block of the 27 cube original menger Block can be "mengerized". So 4/3 x 4/3 x 4/3 x 4/3 ... \rightarrow = > 2 in 3 steps, while 20/27 x 20/27 x 20/27... -> = < 3 in 4 steps???

vill not last as long as non-speege non foarn stone. Bat sponge-stone is lighter, which decreases stress. Engineered volume." (Sponge Boh.) floating limestone!

In on opposite sides, of different chords. Vs through.

Careful carving can make "foam" limestone Blocks... very light but stackable. 3D "joint" of stone. Of course, increased surface area accelerates weathering, decreased volume increases unit stress. So building

Limestone dust (+ first) makes lime, for mortar. So final mass can be solid but porous. A carved "solid and continuous" mass of assembled elements.

mangrove shade farm cool the water, make land needs shallows? make O₂, eat CO₂





Ground Growth If the propagales land in a conductive climate, such as the muddy watere of an include band, they begin to plant roots in the ground and grees more lanes. A they grees into adult mangement trees, they start to produce propagales, and the cycle continues.





ventualliv, mangroves may return



HOT SPRING MORNING











