



Context: CSI divisions

- 0100 general requirements: design, regulations surveys, soil tests and foundation recommendations.
- 0200 Sitework – drainage, septic/sewage disposal system, water supply, power supply lines, landscaping, site paving.
- 0300 Concrete: foundations, Concrete stain and sealer.
- 0400 Masonry: Standard CMU for support piers. Lightweight aerated concrete block.
- 0500 Metals: Cantilevered trusses and miscellaneous brackets. (could include the steelwork for the doors, or this could be included in 0800 glass & glazing, depends on who will do the work.)
- 0600 Wood and plastics. – Glu-lam Beams, cypress curtain wall, roof framing, cypress ship-lap ceiling.
- 0700 Thermal and moisture protection: Screen in soffits, sealants, insulation in roof, weatherstripping on doors. (may be in 0800)
- 0800 Glass & glazing. Glass & related sealants in curtainwall frames, Glass, wood, and screen doors.
- 0900 Finishes: Primer and paint on steel, Portland cement stucco. 1500 Plumbing: taken out due to flood zone restrictions.
- 1600 Electrical: taken out due to flood zone restrictions.

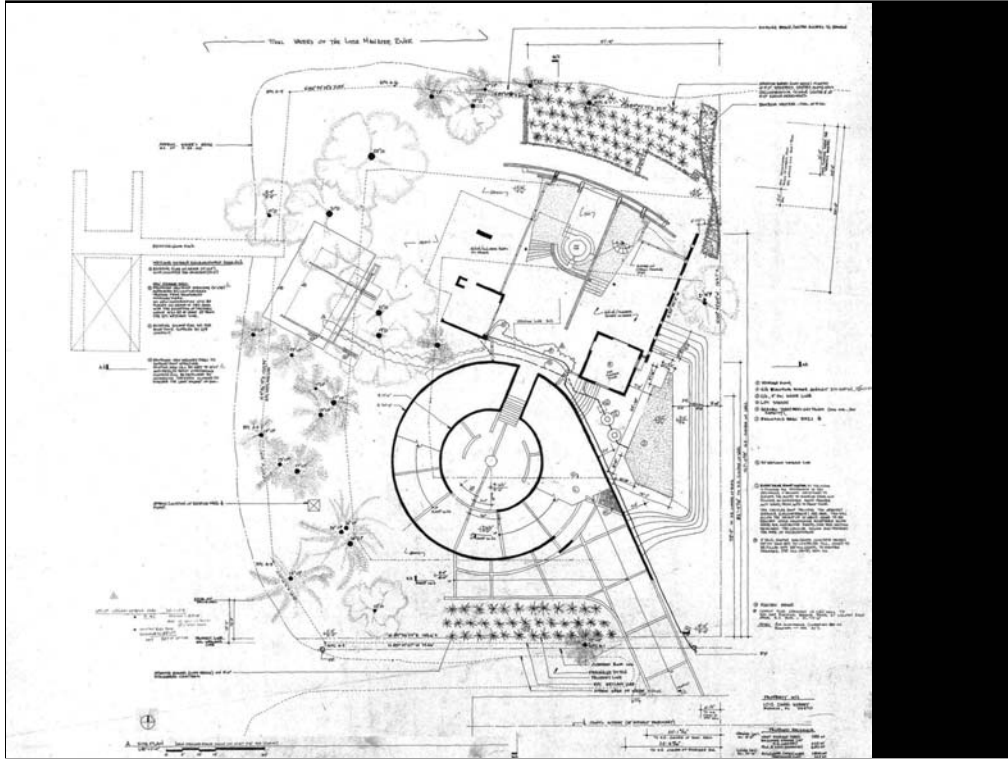
CSI division 0100 general req's. breakdown

- 0100 design, regulations and permits.
 - Survey
 - Existing conditions – conc. Slab, no rebar, no footings.
 - EPC wetland regulations (wetland setback line, mean high water line – avg. high tide, defined by local EPC scientist.
 - FEMA Flood Zone requirements – FEMA flood maps – available online and for download. V-15 zone. Generally: X=no flooding, A= flooding, V=3' high+ waves and scouring.
 - 500 yr flood elevaton: +13' NGVD (national geodetic vertical datum) – defined by surveyor. Markers throughout US set by Army Corps of Engineers and other surveyors. County freeboard requirement of 6", typ. Many municipalities and bldg depts.
 - Accessory structure not subject to foundation requirements due to size and appraised value.
 - Plumbing and electric not below flood elev. of +13'6"
Elec. Possible with GFI protection.

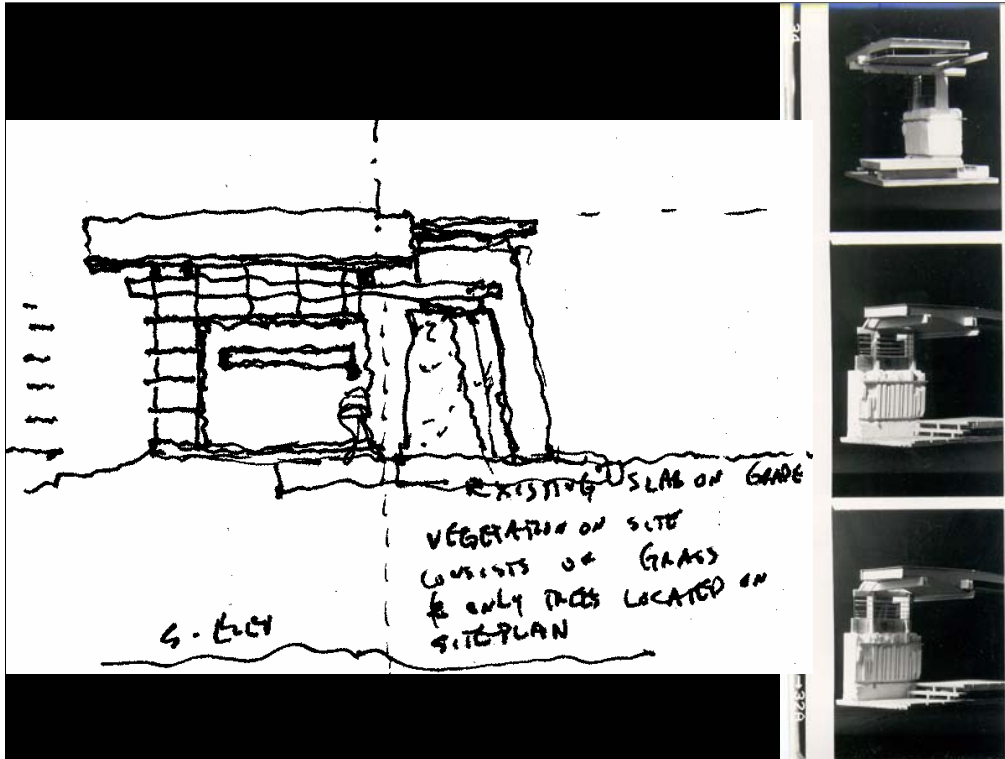


Bare Site, existing slab can be seen at left under the trees.

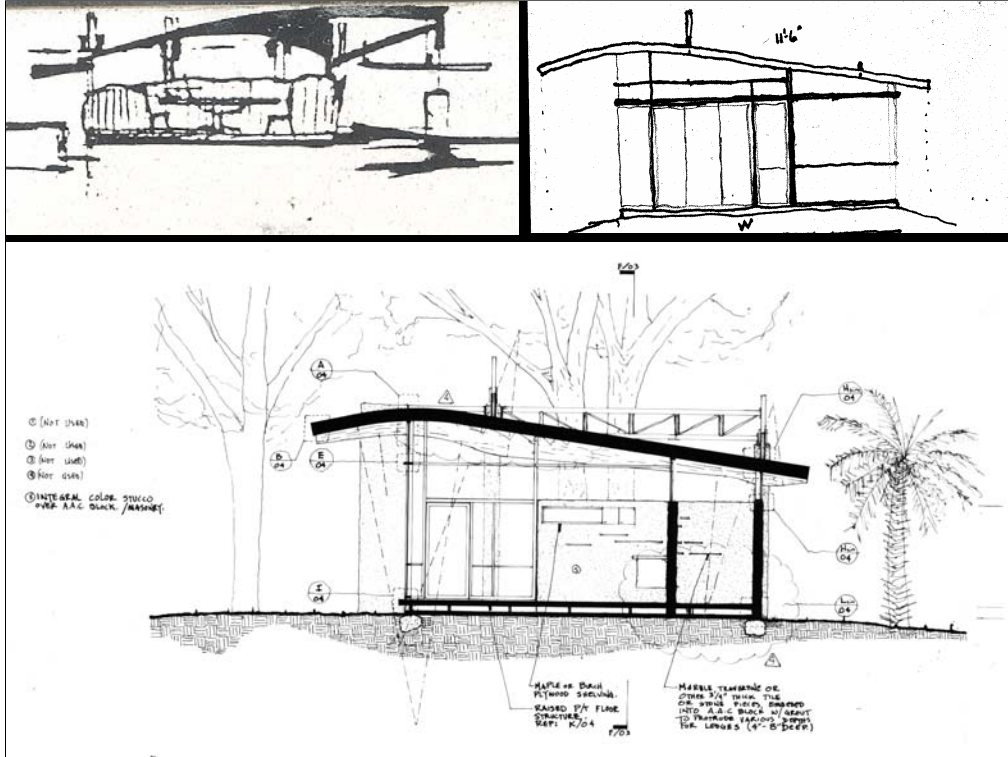


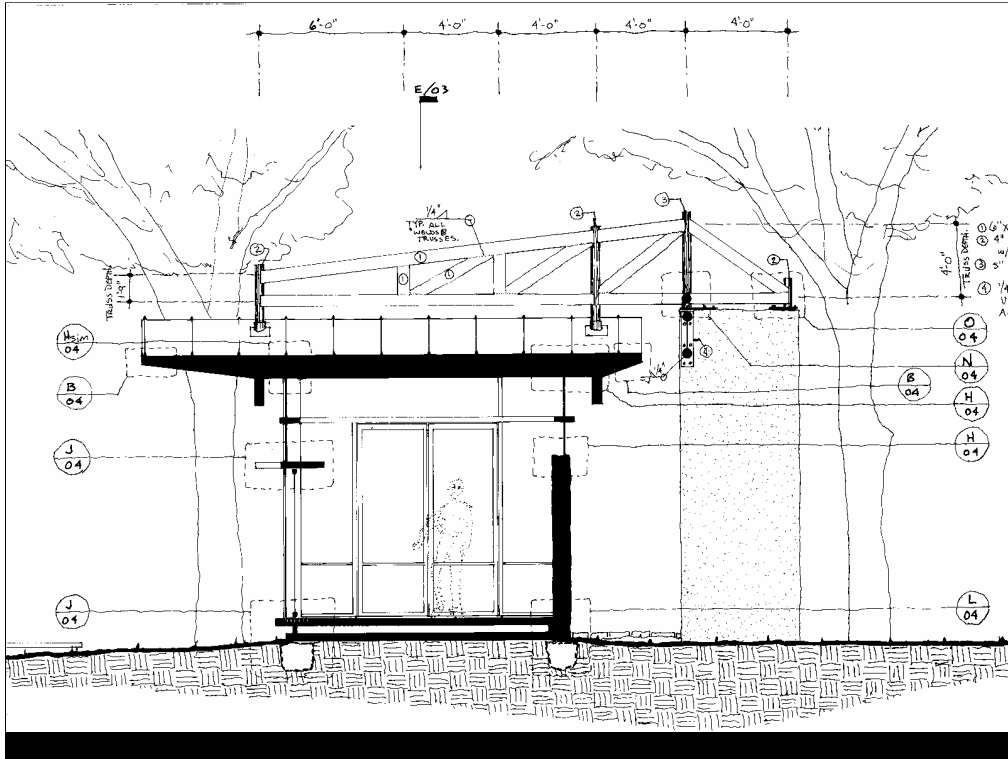


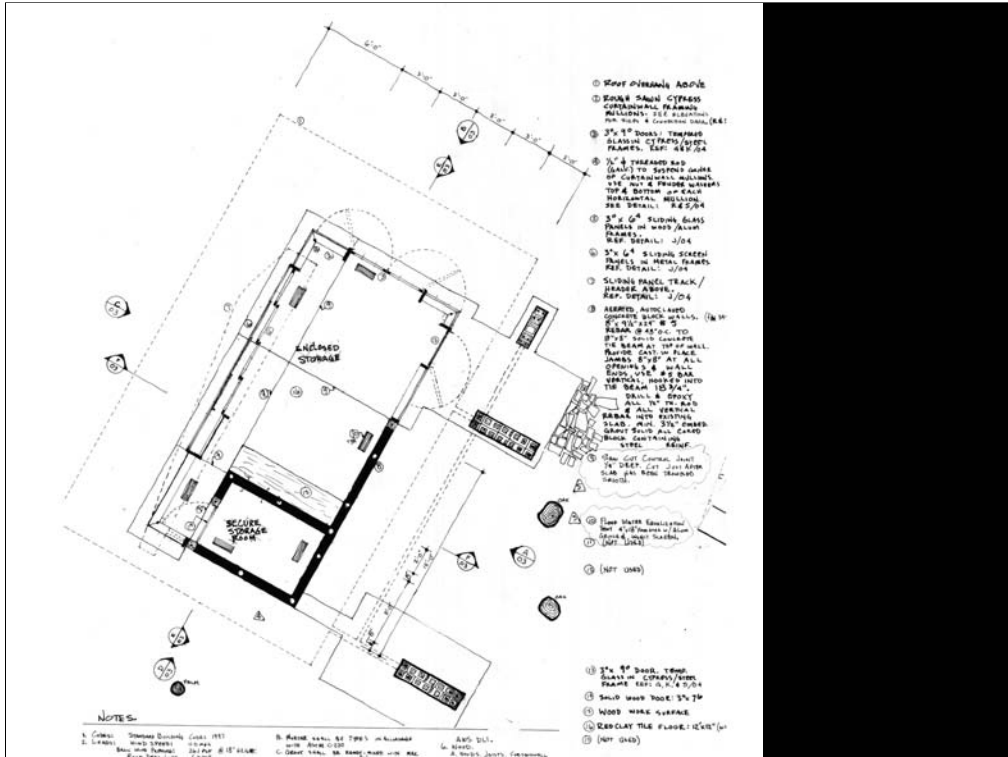
Epc wetland line and its setback. Existing slab allowed to build in location, but could not touch ground outside the slab except on east edge of slab where 25' setback could be met. No rebar and no foundation under slab let to alternative means of supporting roof. Step outside of the setback and cantilever out over the slab.



Concept

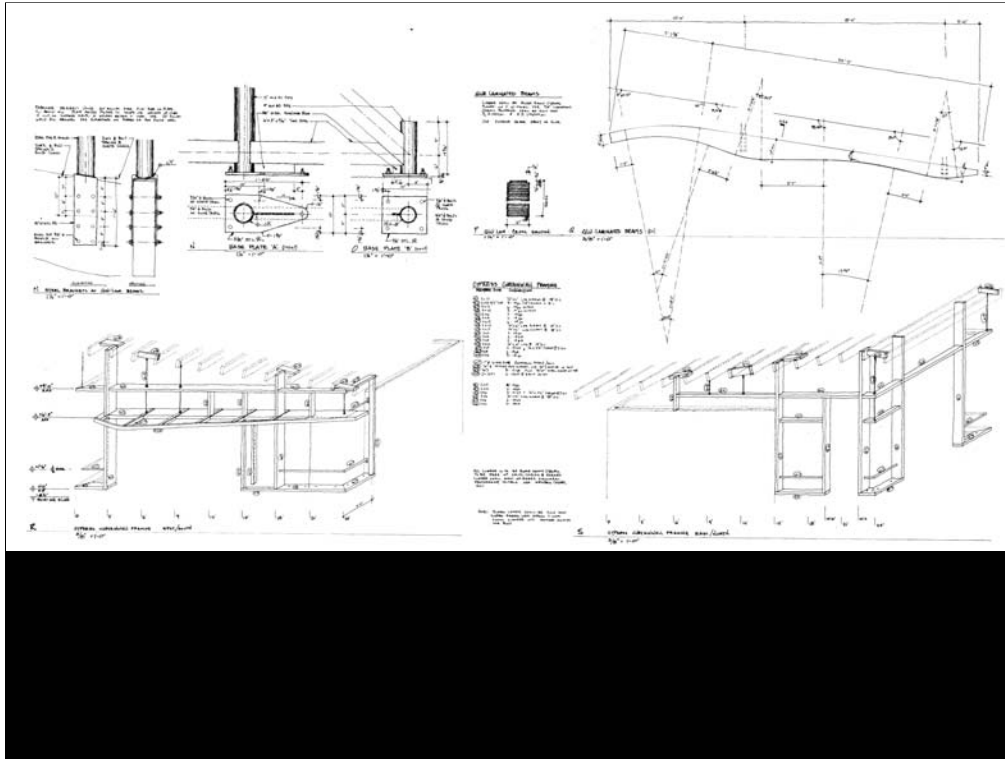


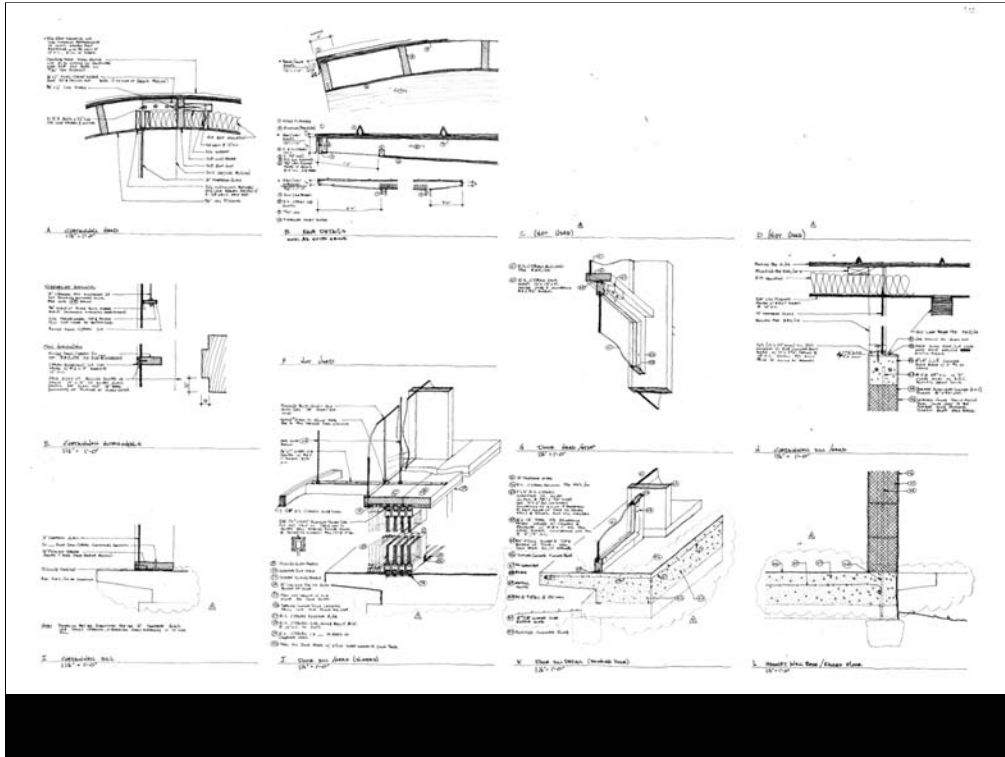


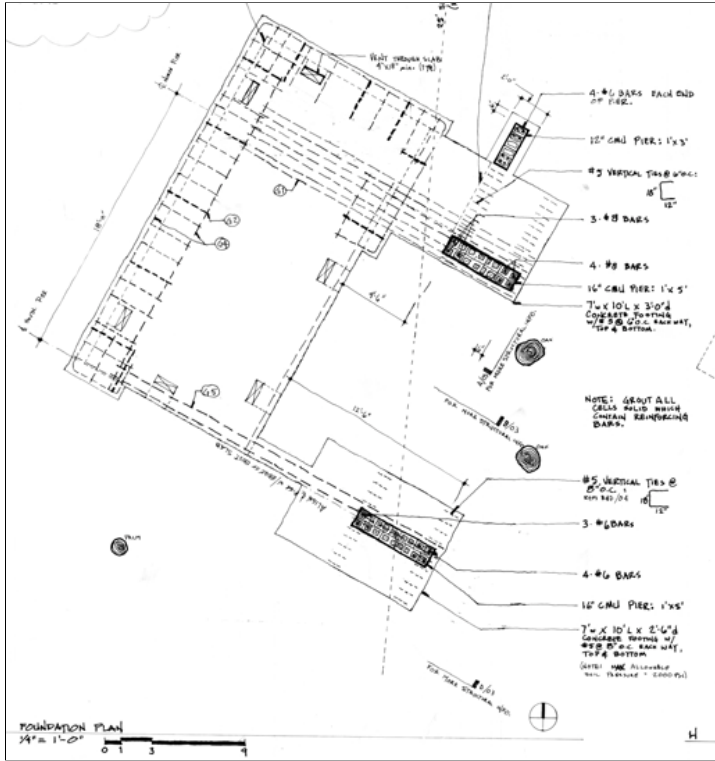


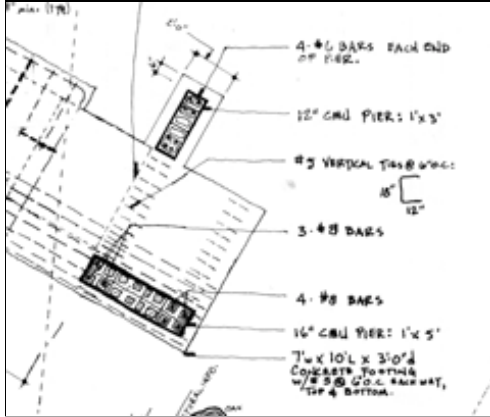




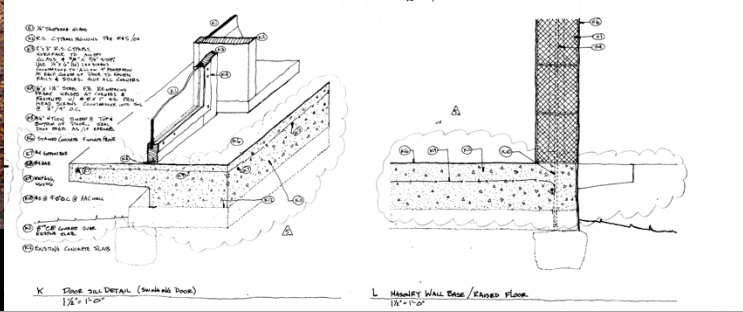




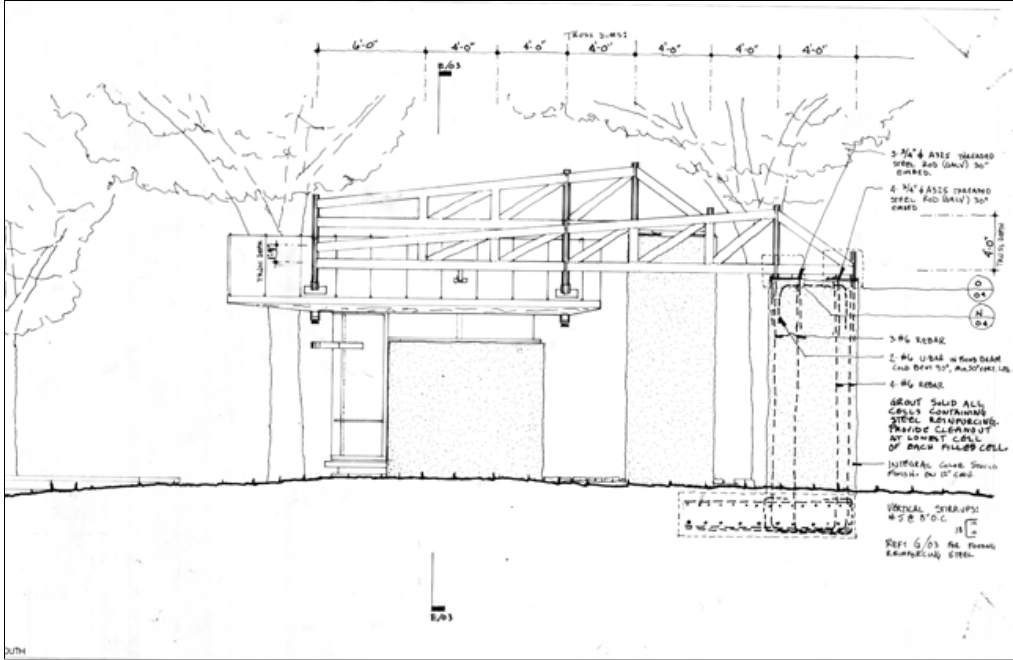




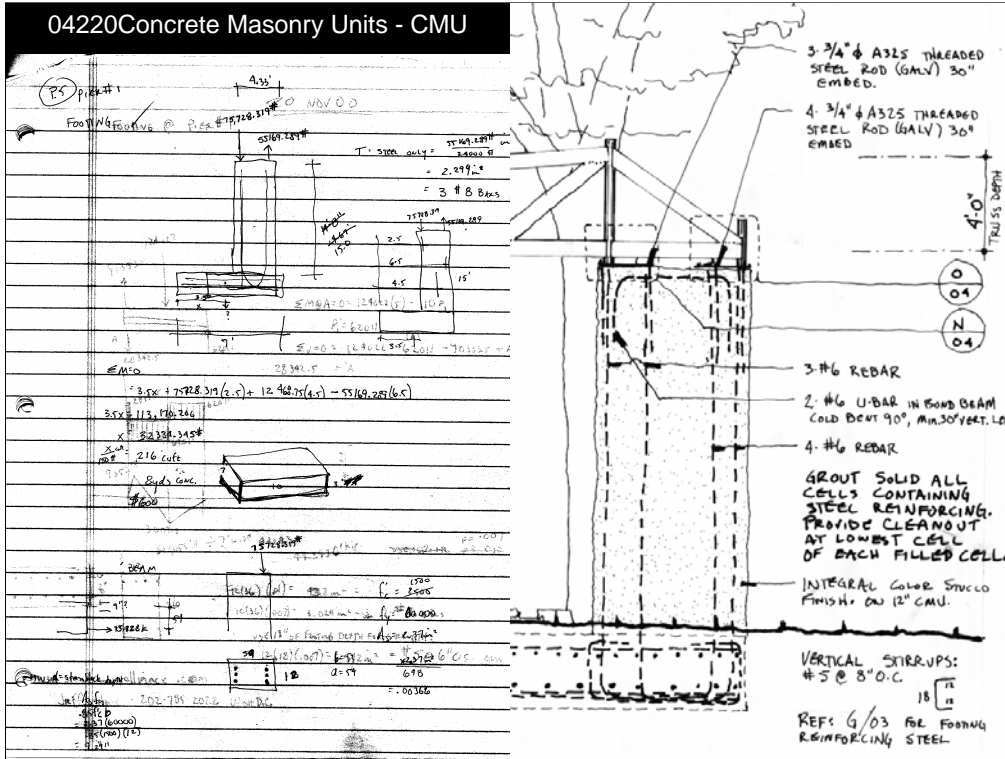


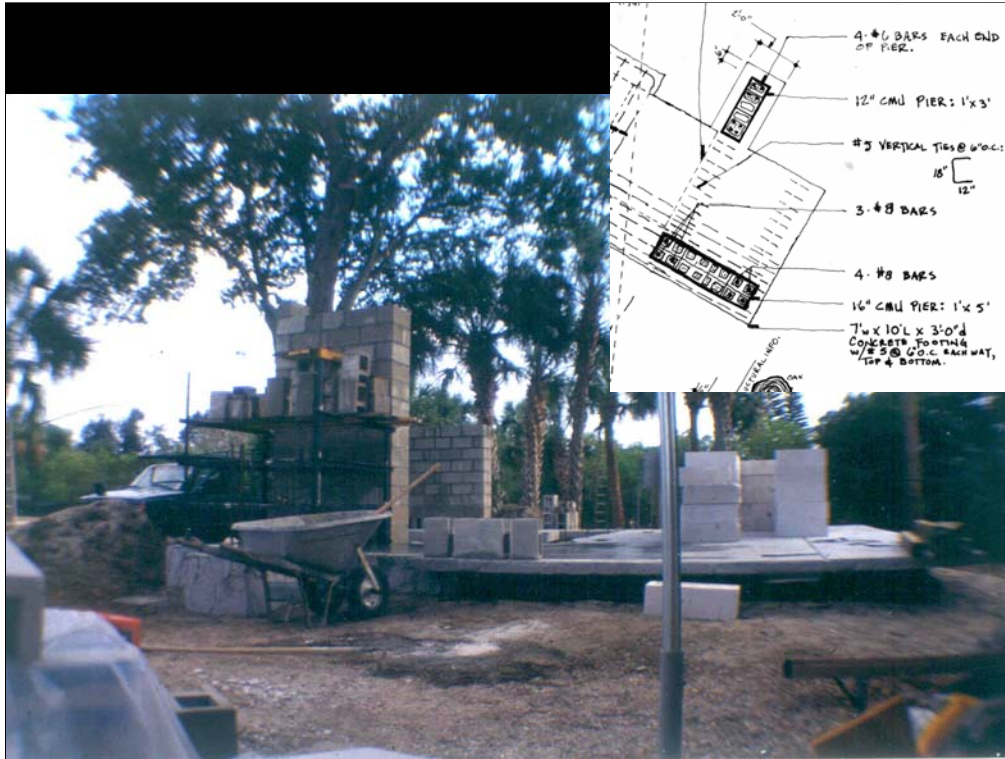




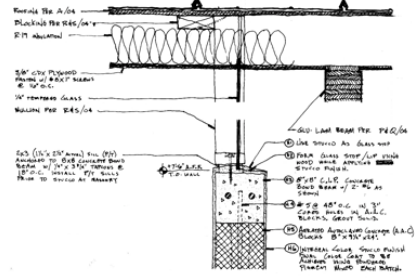


04220 Concrete Masonry Units - CMU

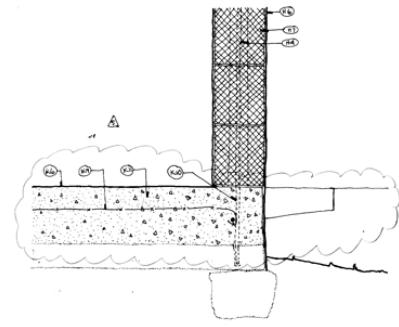




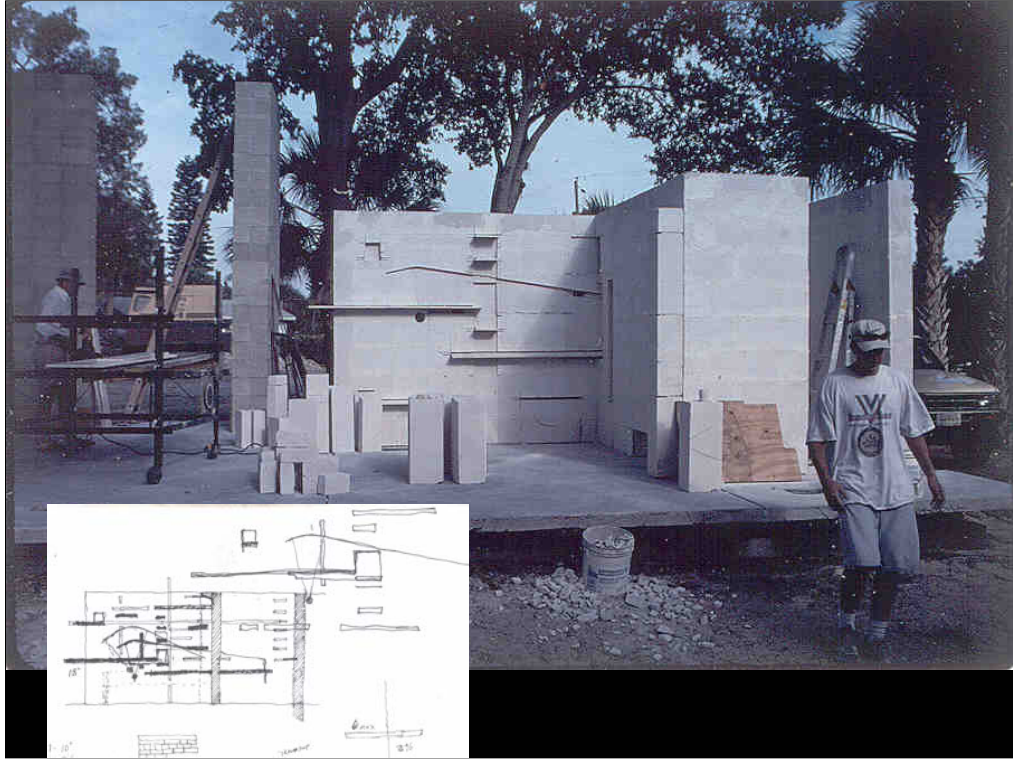
04240 Aerated Autoclaved Concrete Masonry Units

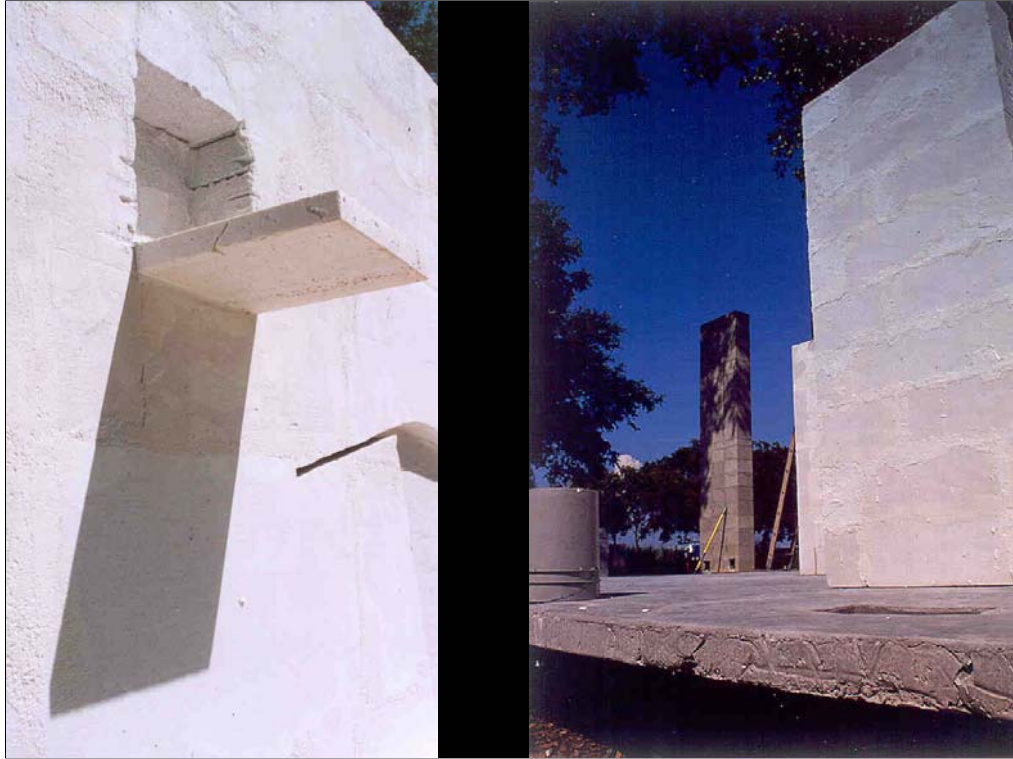


1 WINDOW SILL / HEAD
1 1/2" = 1'-0"



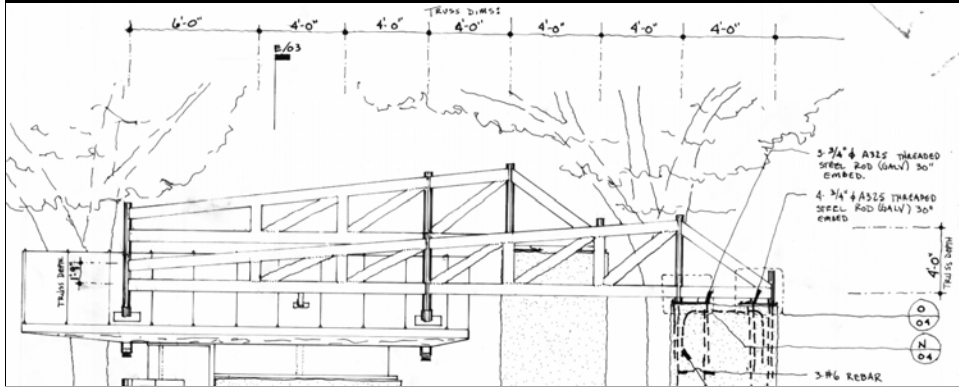
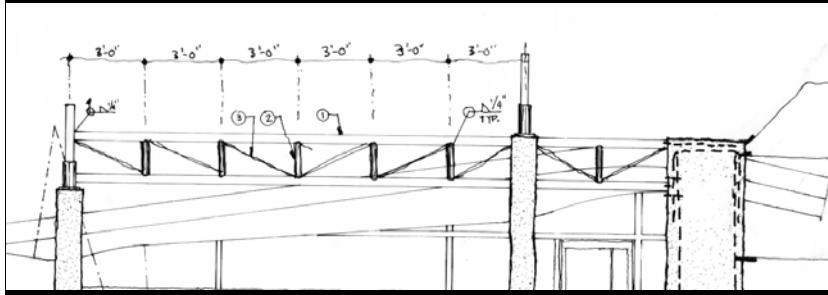
2 MASONRY WALL BASE / RAISED FLOOR
1 1/2" = 1'-0"

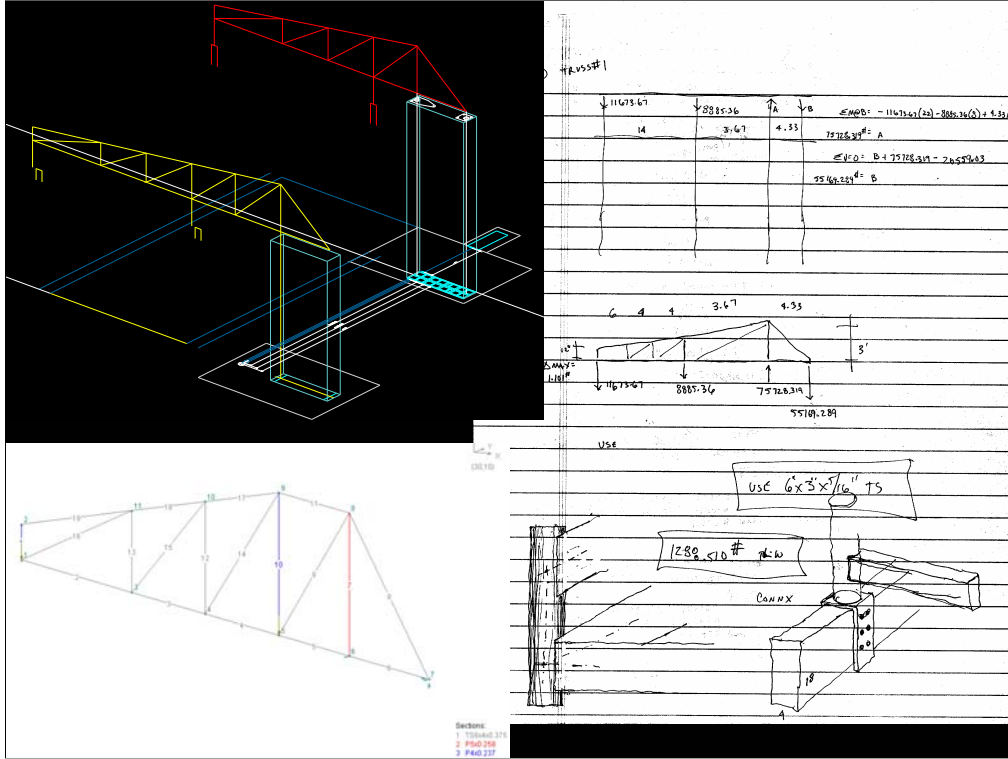




0500Metals

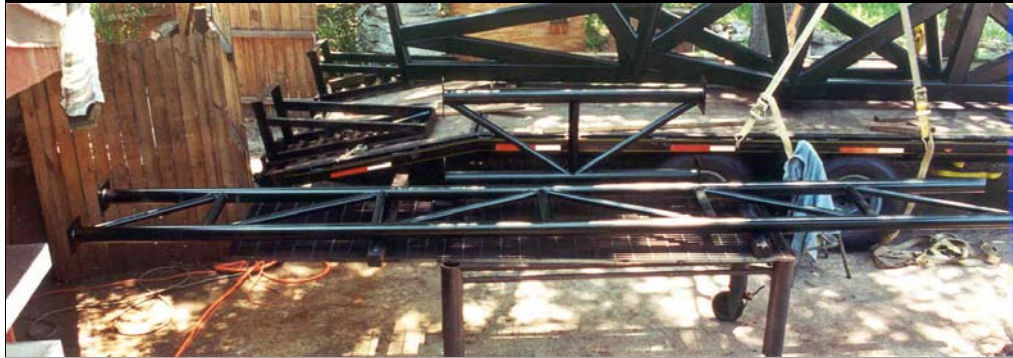
05120Structural
Steel Framing



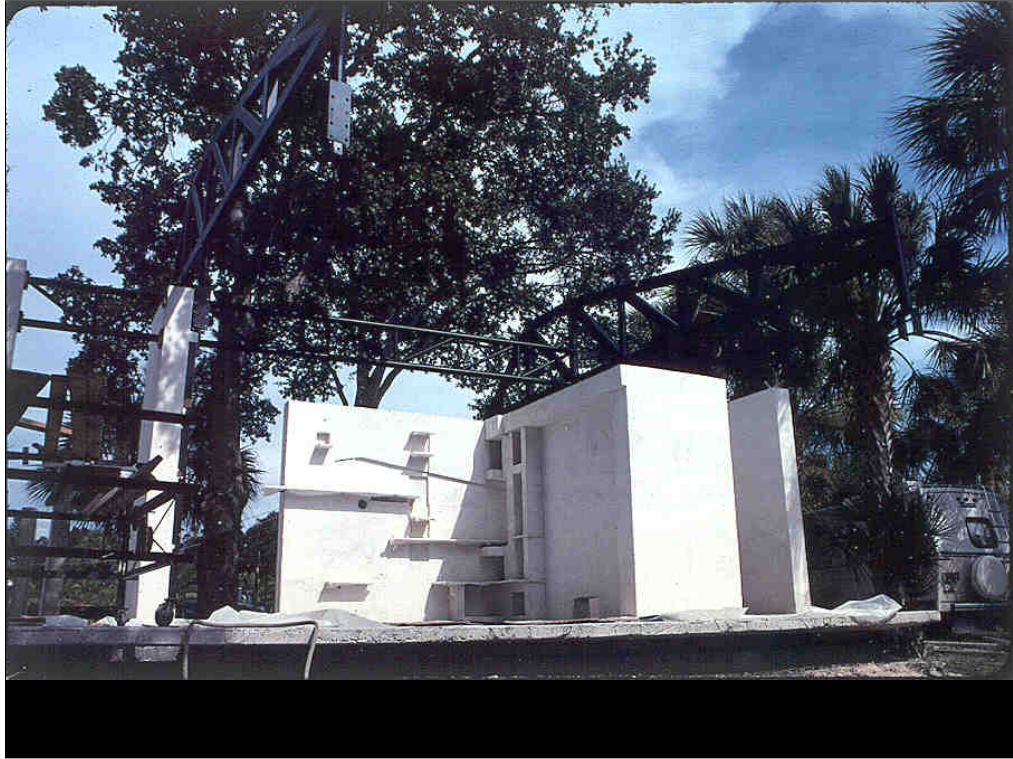
















0900Finishes

09220 Portland cement plaster (stucco)

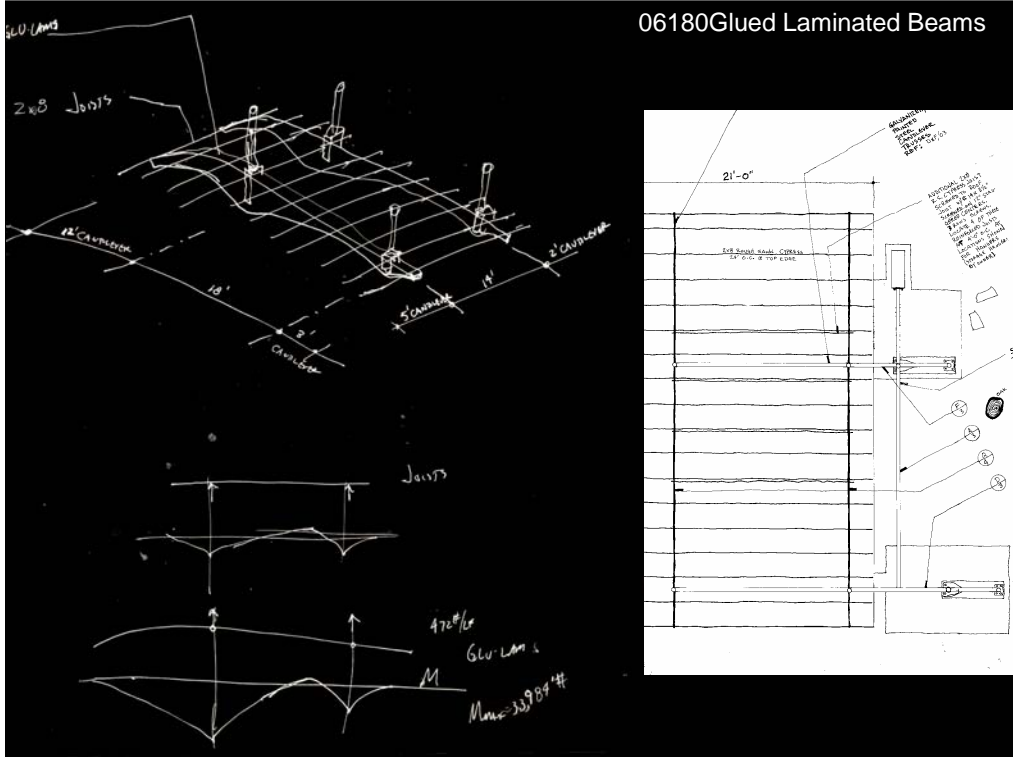








06180 Glued Laminated Beams



10021 SPRING SHED 16 OCT 00

WIND: 24.15 F
 ROOF: 10000
 DALK: 1
 JEMIS: 2
 = 3
 = 39.5
 + BCAM 10.0
 4.05
 3.9
 + 2.0
 41.5

476.99 PLF

4x4 LAM BEAMS

$\sum M/A = 0$
 $B = 9382.5$
 $\sum F = 0 = 13363 - 9382.5 - A$
 $3981.5 = A$

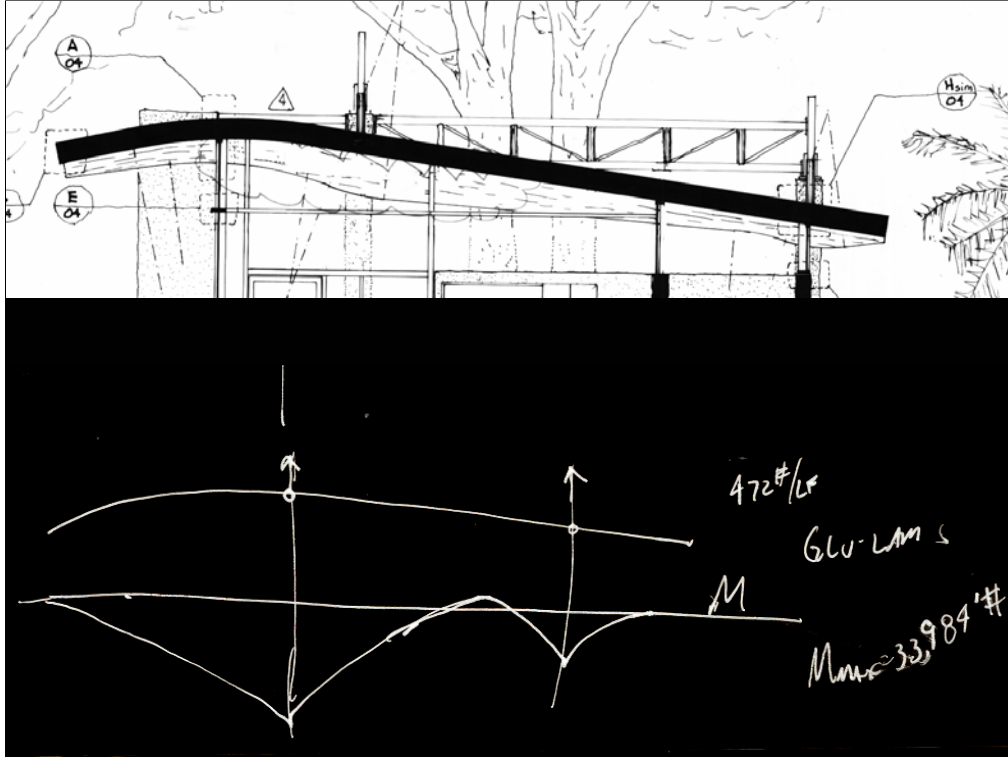
$40 \frac{ft}{ft} \times 2767.5 \frac{ft}{40ft} = 6.833'$

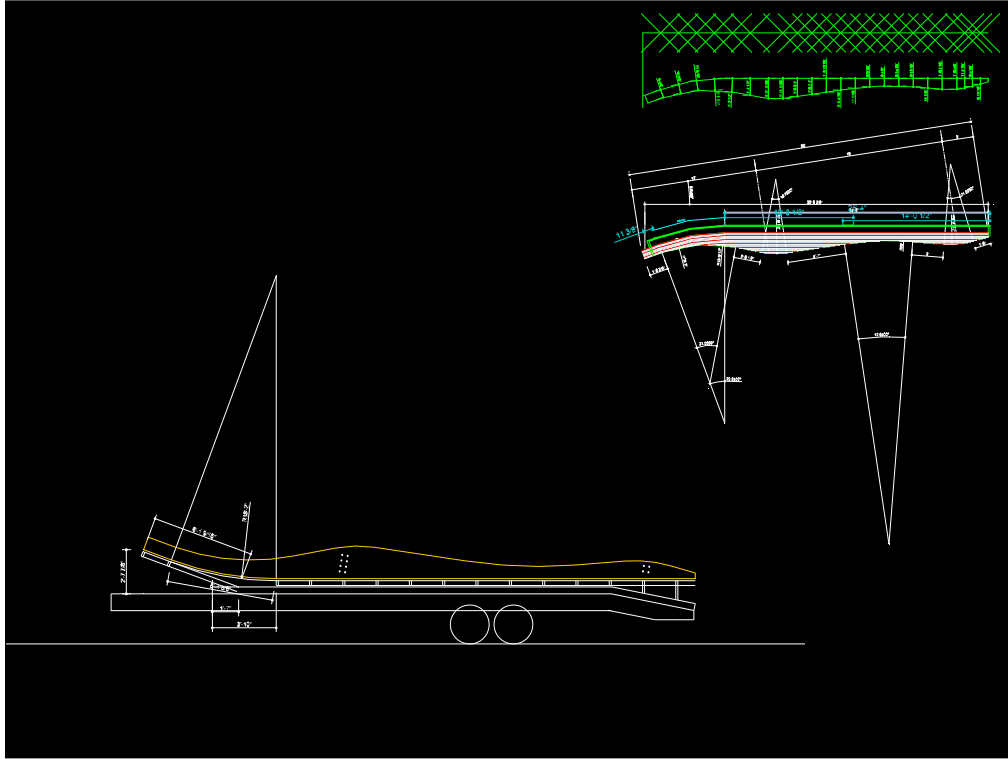
$M = 945.16 \frac{ft^2}{ft}$
 $M = 2855.37 \frac{ft^2}{ft}$
 $M = 8^2 \times 224$

STEEL: $S_x = \frac{M}{f} = \frac{2855.37}{24,100} = 0.118$ INCH
 WOOD: $S_x = \frac{M}{f} = \frac{218.7}{1600psi} = 0.137$ INCH

$15' = \frac{6(d^2)}{d^6} \times \dots$

4' WOOD: 13 1/2" x 8" MIN
 OR 4x8 @ 1600
 MIN. 8" DEEP













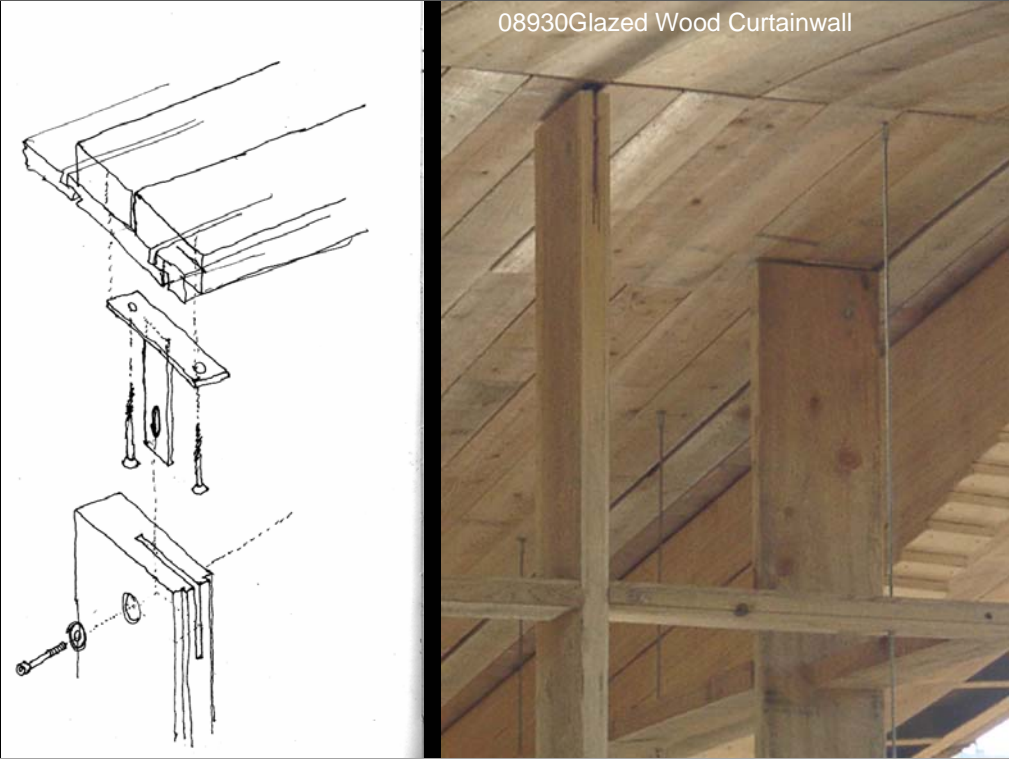








08930 Glazed Wood Curtainwall







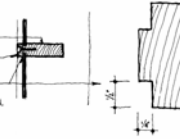
INTERIOR HORIZONALS

1" TYPICAL GIP SURFACES (A) FOR FINISHING MATERIALS. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH.



WALL HORIZONALS

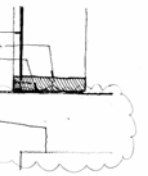
1" TYPICAL GIP SURFACES (A) FOR FINISHING MATERIALS. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH.



E CURTAINWALL HORIZONALS

1/2" x 1" - C

1" TYPICAL GIP SURFACES (A) FOR FINISHING MATERIALS. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH.



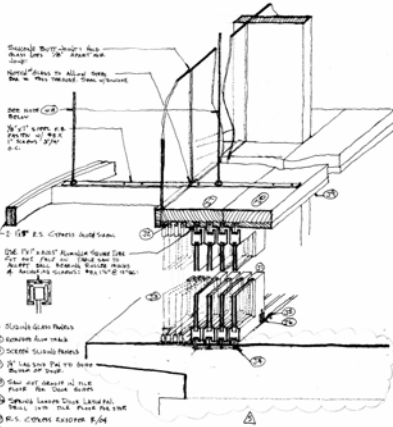
NOTE: SURFACES MAY BE SUBSTITUTED FOR THE 1" TYPICAL GIP SURFACES (A) FOR FINISHING MATERIALS. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH. SEE PLAN FOR FINISH.

I CURTAINWALL SILL

1/2" x 1" - C

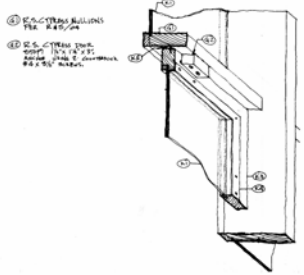


F NOT USED

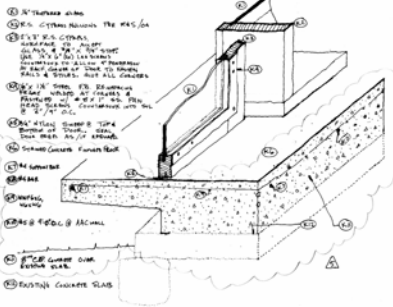


- 1) SLAB ON GRADE
- 2) CONCRETE SILL HEAD
- 3) DOOR SILL HEAD
- 4) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 5) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 6) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 7) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 8) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 9) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 10) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 11) 1/2" x 1/2" x 1/2" DOOR SILL HEAD
- 12) 1/2" x 1/2" x 1/2" DOOR SILL HEAD

J DOOR SILL / HEAD (SLABERS)
1/8" = 1'-0"



G DOOR HEAD / STOP
1/8" = 1'-0"



K FLOOR SILL DETAIL (SLIDING DOOR)
1/8" = 1'-0"



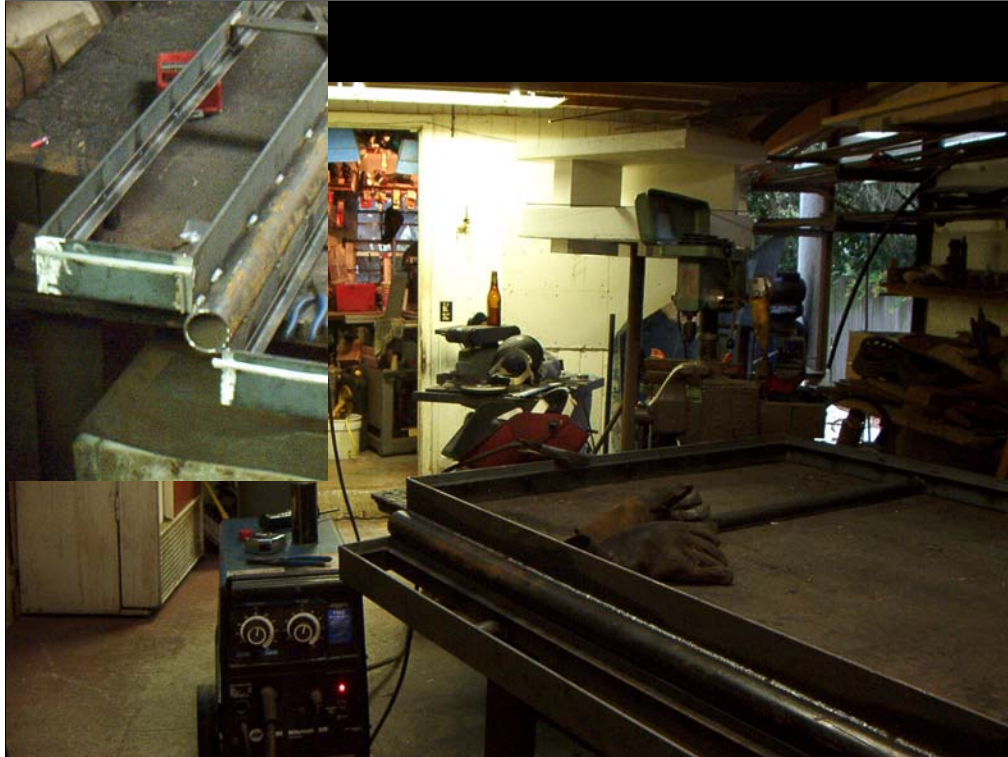




08420Steel Entrances & Storefronts



05500Metal Fabrications + 08810Glass



http://www.google.com/imgres?imgurl=http://www.blockwall.org/images/split-face-block.jpg&imgrefurl=http://www.blockwall.org/&h=265&w=354&sz=19&tbnid=aqpYJ8dZ36QrcM:&tbnh=91&tbnw=121&prev=/images%3Fq%3Dsplit%2Bfaced%2Bblock&usg=__5fJkDbDnEHjflK98RtKeTvaYjYo=&ei=JRZyS4OBEY6vtgeIn72FCg&sa=X&oi=image_result&resnum=4&ct=image&ved=0CBIQ9QEwAw









