Instructions to Students

- Read all of these instructions before beginning the exercise.
- Review the project and code requirements as well as the site plan P1-1 Review the matrix, material options, and material schedules.
- 4. Review the interior elevation showing the window fenestration from the
- Review the floor plan P1-2
- Read the entire project description and carefully review the requirements
- Complete the adjacency matrix P1-1.
- defined (following). Show your proposed layout on the sheet given to solve the problem
- by circling it on the schedule P1-1. 9. Select finish materials for the floors and walls and indicate the best choice
- ones that you don't write on. 10. Write your control number in the lower right of every sheet—even the

- All exterior doors are available for egress as they swing out and have a minimum clear opening of 3'.
- Egress paths of travel may not pass through areas that may be blocked, locked, or used for storage.
- Barrier free requires a 5' turning circle (show as a dotted line) at every change in direction. Paths of travel not required for egress are not bound by
- Egress must be provided from the residence without requiring the weaver to pass through the shop to exit.
- Maintain a minimum width of 44" along accessible routes
- clear passage width when open. Doors and storage units that open toward a path of travel may not limit the
- minimum 30" clear width otherwise. Doors to be a minimum of 3' clear width in all accessible spaces and Doors in accessible areas must be flanked by clear wall space 18" on the pull
- side and 12" wide on the push side along the latching side.
- Sinks in barrier-free areas must have clear knee space below and may not encroach on the turning circle more than 6"
- Habitable spaces in the living space/apartment must have an operable window
- Floors in areas with sinks must be slip resistant.
- Surfaces in bathrooms and washrooms must be moisture resistant.

only erase pencil marks that will interfere with comprehension of your provided using ink or felt tip (it will be assumed that all pencil is preliminary to your final solution and not intended as part of your final solution). You need represent items in accurate scale. Draw your solution on drawing sheets required in your passing solution. Use a freehand sketch or drafting All items, adjacencies, and attributes mentioned in this document are

in the project description. Include the lineal feet or cubic feet of storage required with the label for such items where the specific requirement is noted details (door swings, backs on chairs, pillows on bed, etc.) to the extent necessary to distinguish one type of item from another. Label all spaces listed Complete the partition and furniture plan on P1-1 showing typical required

Project Description

the studio. The studio and restroom in it are to be handicapped accessible. studio and is also to have direct access to the outside. Classes are held in location. The living area is to be located to have discreet access from the student who is a weaver lives, works, and teaches weaving at the project spend 2 months studying with an artist on a selected medium. A graduate art The project is a rural art camp for gifted high school-level students who

exterior of the building cannot be changed. Access flooring is used throughout EXCEPT in the apartment bathroom and kitchen and in the shop be determined by you and indicated on the plan with a dotted line). The the NW and SE are 18" from floor to sill. are 3' from finished floor to bottom of the apron. The projecting windows in washroom. Except for the windows in the two projecting corners, the windows building shell with windows and doors as indicated cannot be changed; the Plumbing locations should all be within a 20' diameter circle (circle location to

may be combined as long as all requirements are met. represented as well as adjacencies and privacy considerations. Functions Requirements for each functional area follow. Address the items to be

- 1. Loom 108" wide and 48" deep with a seat for the weaver. The weaver possible to visually monitor the students while seated at this loom. works at this loom while students are busy at their own looms, so it must be
- shelf for cones and baskets of yarn 21 lineal feet of shelving that is 10" deep and provides 10" of height per Four looms 3' wide \times 2' deep from front to back, each with a chair
- 4. Sink 30" wide \times 18" deep from front to back with 4' of counter surface to
- 5. Four drying racks 4' wide × 18" deep

- 1. Lounge seating for 5 persons arranged for conversation
- One drafting board 36" wide \times 24" deep with stool
- Desk with double file pedestals and computer.
- 4. Combination copier, printer, and scanner on its own stand, which is 20" wide imes 20" deep. Paper and supplies stored below.
- This area may be combined with weaving studio as long as

Accessible restroom with toilet, sink, storage cabinet 10" deep \times 2' wide

Living Space for Weaver

Living Space/Apartment

- Lounge seating for four with a set-down sur
- lineal feet of book shelving equipment requires 18" wide imes 17" deep imes 15" 2. Shelving unit containing TV 30" wide \times 24" face at each seat deep \times 28" tall; stacked stereo tall space when stacked; 40
- Dining table and chairs for 4 people

- 3 lineal feet of upper cabinets addition to sink and range 1. 5 lineal feet clear counter space over base cabinets and appliances in
- 3. Full-height refrigerator 30" wide imes 28" deep
- 4. Range 24" × 24"
- Sink with integral drain board 36" wide imes 18 Microwave 21" wide imes 18" deep imes 15" tall 3" deep from front to back

Sleep Space

- 1. Double bed 54" wide × 75" long
- 2. Pair of nightstands 24" wide \times 20" deep \times 26" tall, with drawer storage 3. Dresser 6' wide \times 20" deep from front to back \times 30" tall
- 4. Closet with 3' of long hanging and 4' of short/double hanging

- 1. Vanity cabinet 30" wide \times 22" deep containing sink
- 3. Tub 2'-5" wide \times 5'-0" long with shower. Indicate location of fittings (shower head and faucet)
- Linen closet 24" wide × 24" deep full height

The toilet and sink must be accessible to guests without requiring that they pass through the sleep space. The bathroom must be immediately adjacent to

outside. The configuration of the entrance area, provide visual privacy for the living space when Guest coats must be stored immediately adjacent to the door from the directly from the shop, should the door is opened. The living

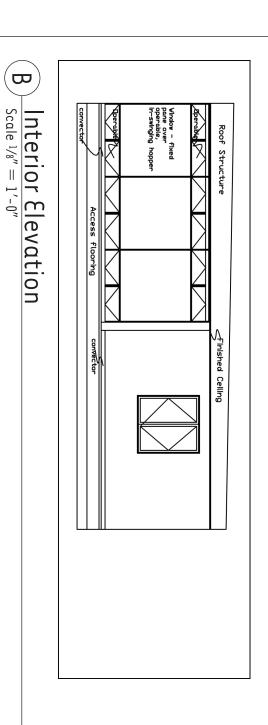
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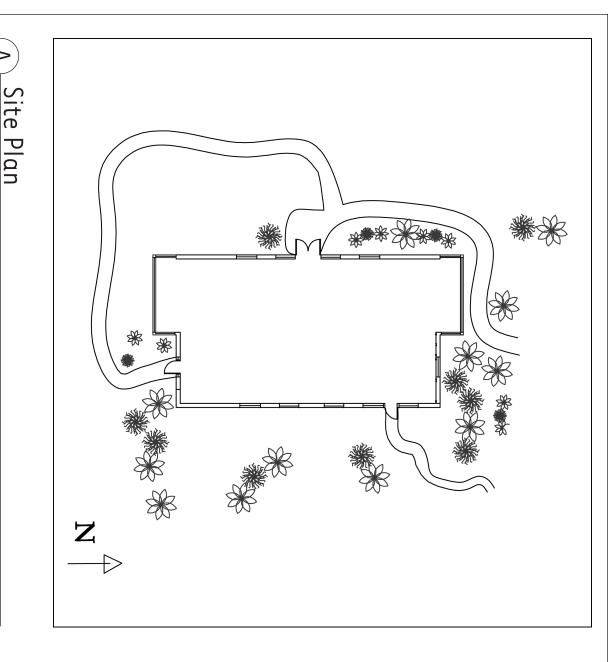
Exercise

Part One of Design Exercise Weaver's Studio, Lite Version

Student Control Number



 \triangleright



Studio Retail Area Restroom LR/Ent. Kitchen Sleeping Bath	Bath	Sleeping	Kitchen	LR/Ent.	Restroom	Retail Area	Studio	Direct AdjacencyConvenient AdjacencyX Remote
LR/Ent. Kitchen Sleeping								Studio
S/eeping								Restroom LR/Ent.
								Sleeping

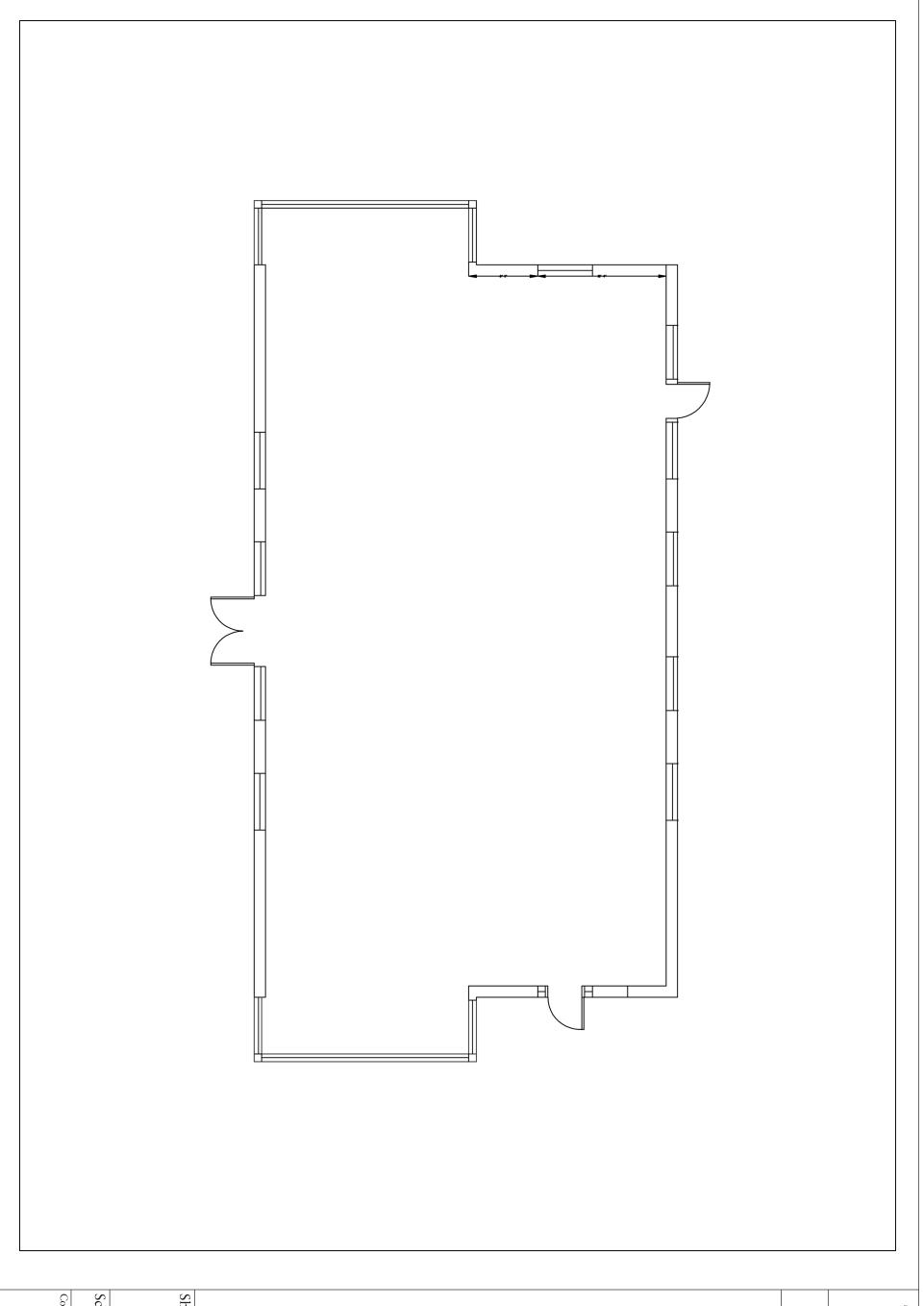
F	Floor
F1	45 oz level loop nylon carpet tiles loose lay
F2	Stained concrete sealed 3 coats matte nonslip urethane
F3	Ungauged slate with heavy cleft face acrylic high-gloss sealer
F4	Recycled rubber tiles size coordinated with access floor
F5	Linoleum sheet goods
W	Walls
W1	Linen wall covering not fire-rated
W2	Semi-gloss, low VOC paint
W3	Ceramic tile
W4	Textured commercial vinyl wall covering

	Area		Floor	~	_	Walls	
choice from those listed to	Living/Ent F1 F2 F5	F1	F2	F5	W1	W1 W3 W4	W4
the right by referencing the	Kitchen	F1 F4 F5	F4	F5	W1	W1 W2 W3	W3
table above for material	Studio	F3 F4 F5	F4	F5	W1	W1 W2 W3	W3
	Studio WC F1 F2 F4	Fl	F2	F4	M 1	W2	W1 W2 W4

Site Plan Elevation Matrix Schedule Weaver's Studio, Lite Version

Timed Design Exercise

Adjacency Matrix
Use only these symbols; do not make up your own symbols.



Scale 1/8" = 1'-0"

heet P1-2

Floor Plan

Your solution must be presented in ink or felt tip on this sheet

Weaver's Studio, Lite Version

art 1 of 2

Timed Design Exercise

Instructions to Students

- Read all of these instructions before beginning the exercise.
- 2. Review the project and code requirements and additional scope of
- planning and also the elevation symbols indicating the two elevations for the sales desk, which are to be drawn on sheet P2-1 at $^{1/4''}$ = 1'0" (requirements 3. Review the floor plan P2-1; notice the layout for your lighting and electrical
- 4. Review all of the symbols and electrical requirements on sheet P2-2.
- data/phone plan, sheet P2-2. Locate the electrical and communication devices required on the electrical/
- Draw required circuitry and switching locations for a functional design. Create a reflected ceiling plan on sheet P2-3 showing all lighting locations
- every sheet—even the ones that you don't write on. 8. Write your control number where indicated in the lower right corner of
- 9. Select the best choice from the equipment listed in the legends and use only that equipment and those symbols. Do not add equipment or make up

- All electrical outlets must be located 18" AFF unless noted otherwise.
- Exit signage must be visible upon exiting all enclosed spaces and positioned to direct people safely out of the building without confusion as to the exit
- Where practical, wall outlets and ports are preferred over floor-mounted
- brought up into and permanently affixed within the built-in sales desk. Electricity, voice, and data devices required of the sales desk are to be
- Electricity, voice, and data devices for sales offices will not be brought up into the portable desks and must be configured so no cords span open space

grounds, and there is a pond adjacent to the building. commonly needed supplies. Restrooms are available for people enjoying the advisors and organizers, and houses a small shop with toiletries and other The camp office center serves a few functions. It houses offices for

required in your solution. Use a freehand sketch or drafting to represent items felt tip (it will be assumed that all pencil is preliminary to your final solution in accurate scale. Draw your solution on drawing sheets provided using ink or All items, adjacencies, and attributes mentioned in this document are

- The design of the sales desk is to be congruent with nature and art
- 2. A computerized cash register sits on the sales counter 36" AFF and is within the sales desk, below the register. and powers the register is to be located 24" AFF in a closed-door storage unit networked to a hard drive in the equipment closet. The device that connects
- 3. A phone is also located on the desk, connected and powered by a device located in the vertical support for the transaction top.
- organized in individual compartments. Folded bag sizes are 6.25" \times 9.25", 4. Three kinds/sizes of bags and one size of tissue paper are to be
- 8.5" \times 11", and 12" \times 12". Tissue paper is 15" \times 20". Two trash containers (one for paper, one for trash) are each $14'' \times 18'' \times 18$
- Cash drawer below register is 15" wide with a 6" tall drawer face. Supplies drawer 15" wide \times 6" tall.
- 9. Label all finishes/surface materials for the desk; note incremental and Additional closed storage where possible with one adjustable shelf per unit.
- 10. Indicate with hidden lines and a note the barrier-free transaction surface
- at 30" high.

 11. Draw and note a second transaction surface at 45" high

Review the requirements on sheet P2-2 and provide for all required

- 1. Energy conservation to be balanced with effective lighting techniques in Lighting/Reflected Ceiling Plan
- Solution to be safe and conform with codes

display and sales area.

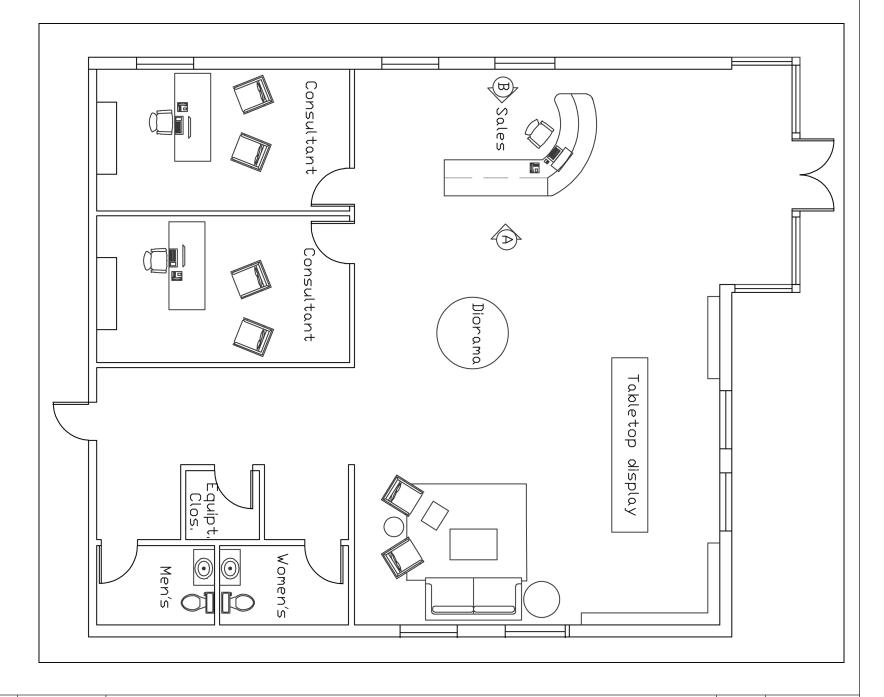
limed Design Exercise

Part Two of Design Exercise Weaver's Studio, Lite Version

C-2

Use the space below to draw (to scale) your design for the sales desk showing all equipment devices, dimensions, and material descriptions.

Scale: 1/4'' = 1'-0''Elevation of Customer Side of Sales Desk



Floor Plan Weaver's Studio, Lite Version

Timed Design Exercise

1/8'' = 1' - 0''

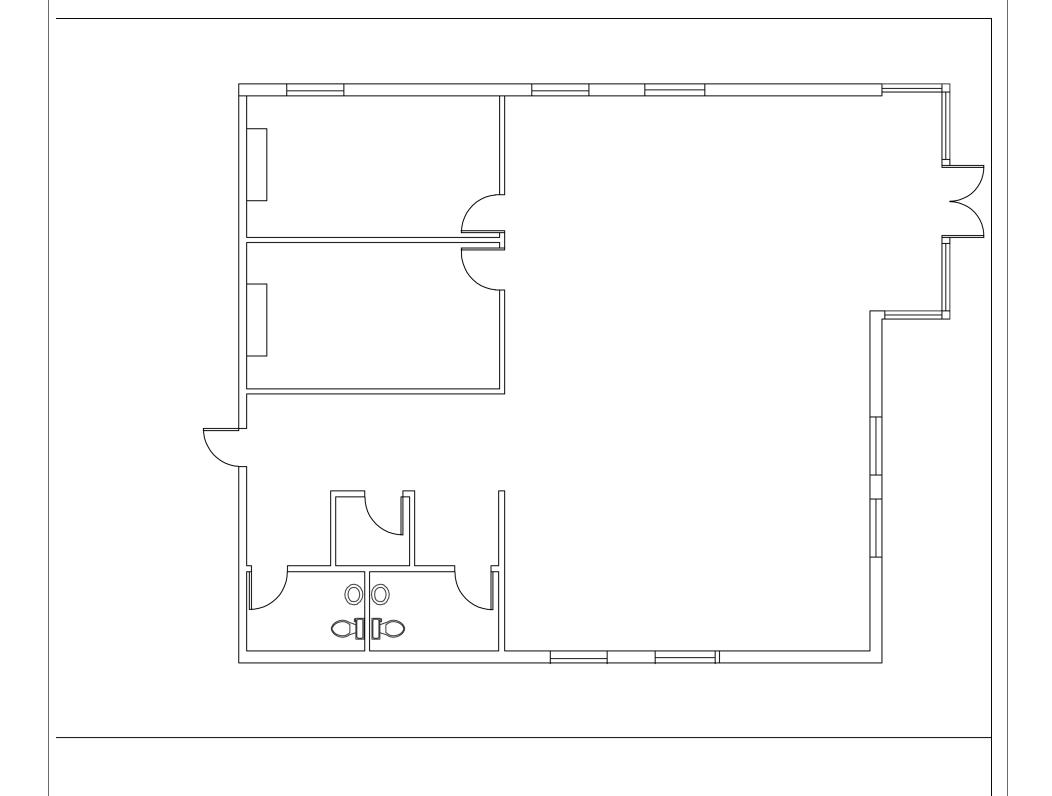
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Elevation of Staff Side of Sales Desk

Floor data port	Floor ph	Floor du	Phone/	Phone c	Cat 5 de	Cat 3 pl	220-vo	=∰ Quadru	 GFI Ground	Duplex outlet	Electrical Legend
ita port	Floor phone port	Floor duplex outlet	Phone/data/power	Phone and data port	Cat 5 data port	Cat 3 phone port	220-volt outlet	Quadruplex outlet	Ground Fault Interrupt duplex outlet	outlet	gend

-		
	Equ	Equipment List Note all heights that deviate from typical 18" AFF
	Qty	Location and requirements
	1	Sales desk: phone/data/power in desktop
	1	Sales desk: one phone line 24" AFF
	1	Diorama: duplex in floor under pedestal

Use only these symbols to communicate your design. Do not make up your own symbols.



Sheet

Refer to this list as you prepare your electrical/data/power plan; select and show only these items on that plan.

Washroom one GFI outlet at sink in each restroom

Equipt closet: phone/data/power closet
Equipment closet: quadruplex outlet closet
Display shelving wall: duplex outlets 45" AFF

Advisor desk: phone each office

Advisor desk: phone/data/power each office

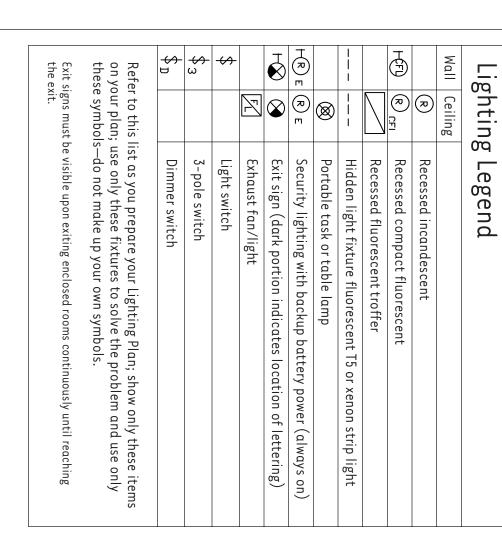
P2-2

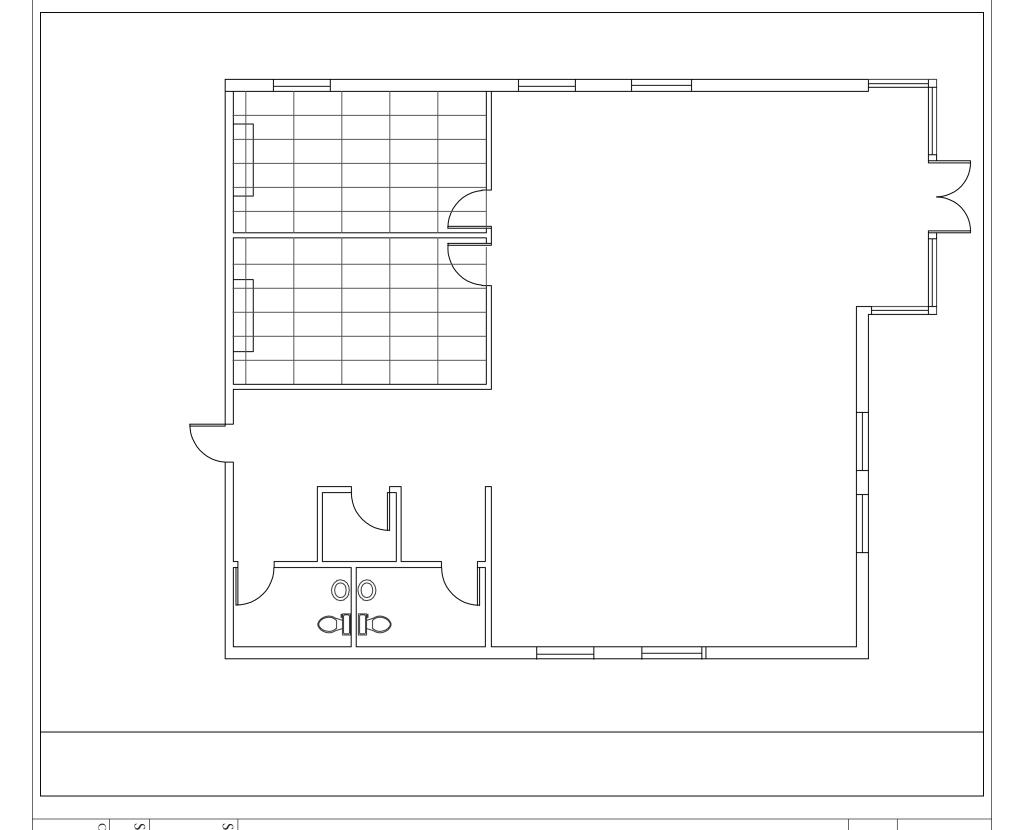
Electrical/Data/Phone Plan Weaver's Studio, Lite Version Timed Design
Exercise

Part 2 of 2

ol Number

1/8"





Reflected Ceiling Plan Weaver's Studio, Lite Version

Timed Design Exercise

1/8"

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P2-3