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
- 4. Review the interior elevation showing the window fenestration from the Review the matrix, material options, and material schedules on P1-1.
- 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
- 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

- locked, or used for storage.

 Barrier free requires a 5' turning circle (show as a dotted line) at every Egress paths of travel may not pass through areas that may be blocked
- change in direction. Paths of travel not required for egress are not bound by this restriction.
- Egress must be provided from the residence without requiring the consultant to pass through the office 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 a
- pull side and 12" wide on the push side along the latching side. Doors in accessible areas must be flanked by clear wall space—18" on the
- Sinks in barrier-free areas must have clear knee space below and may not
- encroach on the turning circle more than 6".
- Door swings may not encroach on turning circles.
- Habitable spaces in the living space/apartment must have an operable
- 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 your final solution and not intended as part of your final solution). You need provided using ink or felt tip (it will be assumed that all pencil is preliminary represent items in accurate scale. Draw your solution on drawing sheets required in your passing solution. Use a freehand sketch or drafting to All items, adjacencies, and attributes mentioned in this document are

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

Project Description

atmosphere, as business clients are frequently entertained here. A business coach lives and works at this location in a large city. The building powder room (must be barrier free). Both business and the residence are to own separate areas except they are to share an entrance hallway and a and residential occupancy. The business and residence are to each have their is a former light assembly plant and has been converted into mixed-use office have a formal atmosphere, and the residence may take on a professional

pipes. The exterior shell of the building cannot be changed. The limits of the client space are indicated by a single line. For the partition separating the formal and successful atmosphere. Locate all floor drains within 12' of waste on top of the single line, which indicates the limits of your client's space. client space from the corridor and office space, center a 6" thick wall directly that must be concealed in your solution to accommodate the request for a Plumbing stacks flank support columns. Small circles indicate actual pipes

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

reception and office areas. The entire office area must be handicapped accessible, including the

- the return is to be 24" \times 72". Two visitor chairs located at least 10' from the reached from both chairs. receptionist (outside social distance) with a small table that can be easily 1. Reception area with a desk and return. The desk is to be 30" imes 72" and
- and a desk 30" \times 72" with a return of 24" \times 72". 2. Small coaching office with 4 lounge chairs around a round coffee table
- 3. Conference room with a large single table for 10 and a buffet surface with

Residence

- wide on hooks) Coat storage for 15 coats (5" per coat hanging in 2' deep closet or 12"
- 2. Cabinet with set-down surface 24" deep \times 60" wide with storage below.

Living/Entertaining Space

- 1. Lounge seating for 8 with convenient table surface attendant to each seat
- 3. Flat-screen TV above a console for equipment. Console to be 2' deep least 4 of the chairs. from front to back imes 5′ wide. This TV must be comfortably viewable from at

- 1. Dining table to seat 8
- Buffet surface 24" deep imes 72" long

- 1. 15 lineal feet clear counter space over base cabinets and appliances
- by 72" tal
- Undercounter dishwasher 24" × 24"
 Microwave 21" wide × 18" deep × 15" tall
 Sink 24" wide × 18" deep from front to back
 Range 30" wide × 24" deep from front to back

Toilet and sink

- 3. Tub 2'-5" wide \times 5'-0" long with shower. Indicate location of fittings (shower head and faucet)
- 4. Linen closet 24" wide imes 24" deep full height

- 2. 10 lineal feet of upper cabinets 3. Full-height refrigerator 36" wide \times 28" deep

- Range 30" wide \times 24" deep from front to back

- 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

- Toilet and sink
 Storage for paper products

Bathroom

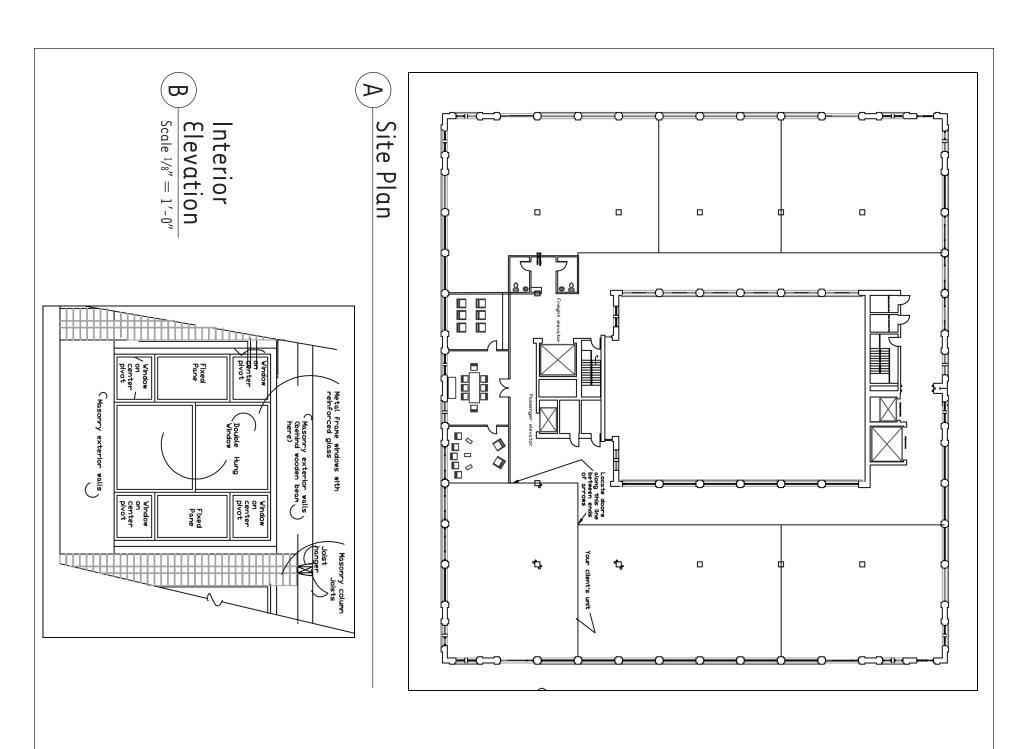
1. Vanity cabinet 30" wide imes 22" deep containi າing sink

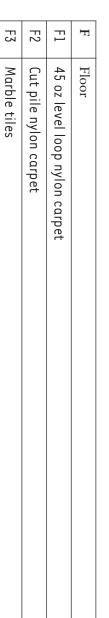
Γimed Design Exercise

of

Part One of Design Exercise Business Coach, Lite Version

Student Control Number





F5 F4

Linoleum sheet goods

Stone look porcelain tile

X

Linen upholstered walls fire-rated

Textured commercial vinyl wall covering

Ceramic tile

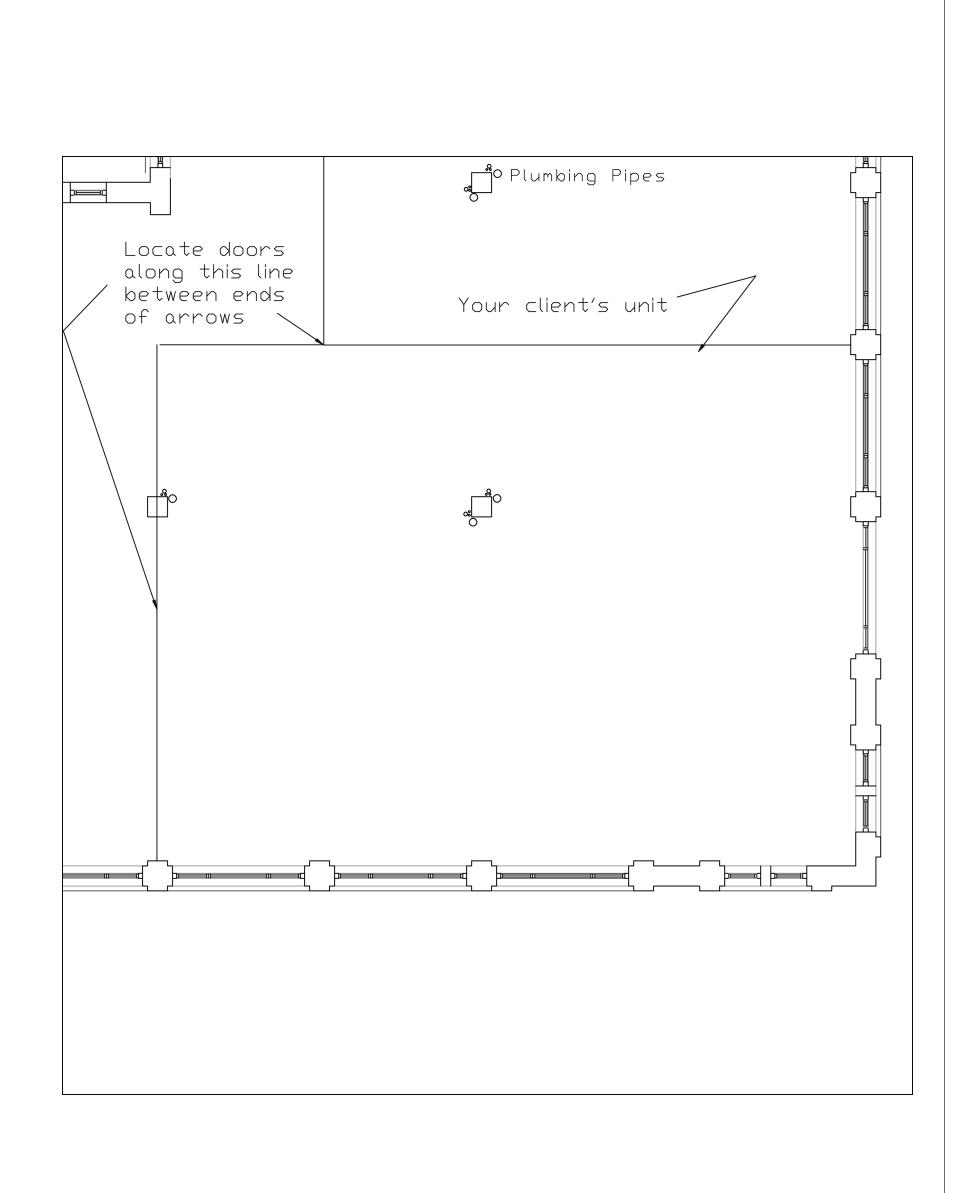
Hajacency I Use only these symbo	AQJACENCY MATTIX Use only these symbols; do not make up your own symbols.
Direct AdjacencyConvenient Adjacency	rence er Rm /Ent.
☐ Visual ConnectionX Remote	Recep Coach Confe Powde Entry Living, Kitche Dining Sleepi, Bath
Reception	
Coaching	
Conference	
Powder Rm	
Entry	
Living/Ent.	
Kitchen	
Dining	
Sleeping	
Bath	

_	WI W5 W4	×	F4	FZ F5 F4	7-7	Bedroom	
	1.17	1.1.1	1	-7	1	-	***************************************
	W1 W2 W4	W1	F5	F1 F3 F5	F1	Kitchen	descriptions
	W1 W2 W3	W1	F5	F2 F3 F5	F2	Bathroom	the right by referencing the
	W1 W3 W4	W1	F5	F1 F2 F5	F1	Reception	choice from those listed to
	Walls		_	Floor		Area	

Control Number	Scale As Noted	P1-1	STICCL

Site Plan Elevation Matrix Schedule Business Coach, Lite Version

Timed Design Exercise



	(0		(/
Control Number	Scale $1/8'' = 1' - 0''$	P1-2	Sheet
	0"		

Floor Plan

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

Business Coach, Lite Version

oart 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
- P2-1 at 1/4'' = 1'-0'' (requirements follow). 3. Review the floor plan P2-1, notice the layout for your lighting and electrical two elevations required for the media cabinet, which is to be drawn on sheet planning and also the elevation symbols indicating the vantage point for the
- Locate the electrical and communication devices required on the Review all of the symbols and electrical requirements on sheet P2-3.
- electrical/data/phone plan sheet P2-3. Create a reflected ceiling plan on sheet P2-4 showing all lighting locations
- 9. Select the best choice from the equipment listed in the legends and use every sheet—even the ones that you don't write on. only that equipment and those symbols. Do not add equipment or make up

8. Write your control number where indicated in the lower right corner of

Draw required circuitry and switching locations for a functional design.

Code Requirements

- All electrical outlets must be located 18" AFF unless noted otherwise. Exit signage must be visible upon exiting all enclosed spaces and positioned
- Where practical, wall outlets and ports are preferred over floor-mounted to direct people out safely to the corridor.
- Include in your solution exit signage in the hallway to continue to direct your client's visitors to the building's stairwell
- Include in your solution exit signage required by code in your client's office

Additional Scope of Services

Instructional audio and video presentations on CD and DVD are an important income stream for the coaching business. These discs are recorded and coaches in training can easily move back and forth between the two spaces. The conference room is frequently used for meetings and work space, as equipment here is connected to cameras in the recording space, here. The proofing room is a theater when needed and a convenient training in-house and edited by a consulting firm. Coaches in training are also filmed

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

Project Description

- 1. The design of the media cabinet is to be congruent with a formal
- 2. The cabinet is to also contain 4 pieces of sound equipment. Each is 17"
- 3. Speakers are to be integrated into the cabinet. The left and right side channel and the center channel speakers are 8" wide \times 12" tall \times 6" deep.
- 4. Label all finishes/surface materials for the desk, note incremental and overall dimensions.
- and speaker cloth removed to show equipment locations. View Number One should show the cabinet as it would look with doors
- 6. View Number Two should show the appearance of the cabinet with doors and speaker cloth in place.

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

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

Simed Design Exercise

Part Two of Design Exercise Business Coach, Lite Version

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

PROOFING ROOM

CONFERENCE

RECORDING

Media Cabinet

Scale: 1/4'' = 1'-0''

Elevation of Media Cabinet Storage Exposed

 \bigcirc

Scale: 1/4'' = 1'-0''Elevation of Media Cabinet Appearance When Closed

> Timed Design Exercise

Floor Plan Business Coach, Lite Version

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

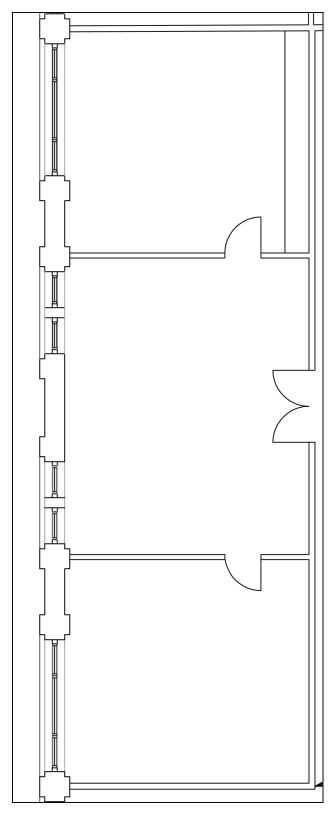
Electri	Electrical Legend
#	Duplex outlet
	Ground Fault Interrupt duplex outlet
#	Quadruplex outlet
	220-volt outlet
\bot	Cat 3 phone port
	Shielded RGB video port
$\stackrel{\bigstar}{\sim}$	Phone and data port
ф Д	Phone/data/power
Ф	Floor duplex outlet
	Floor phone port
	Floor data port

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

Qty	Equ
Location and requirements	Equipment List Note on your plan heights for all locations deviating from typical of 18" AFF

	acviacing noin typical of 10 All
Qty	Location and requirements
2	Media cabinet: phone/data/power
1	Media cabinet: one quadruplex outlet for equipment
1	Media cabinet: duplex in ceiling for projection screen
2	Proofing room convenience outlets for laptops
1	Proofing room phone jack for wall-mounted phone
L	Media cabinet RGB video port for communication with equipt.
1	Conference room: phone jack for wall-mounted phone
2	Conference table: duplex floor outlets for laptops
2	Recording room: power/data/phone port for cameras
4	Recording room: ports for RGB video cable one ea. camera

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





Electrical Plan

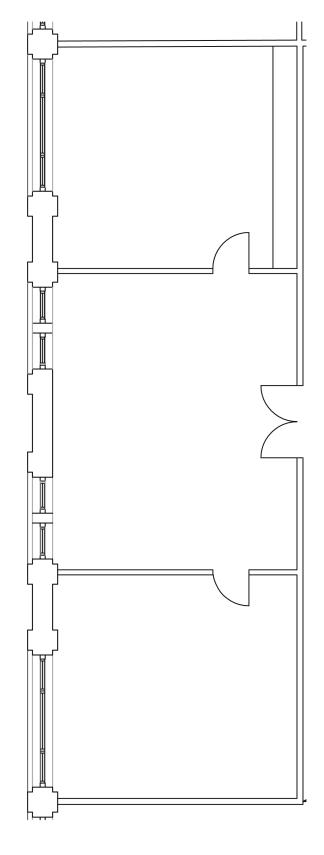
Electrical/Data/Phone Plan Business Coach, Lite Version

Timed Design Exercise

P2-2

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

<u> </u>	htin	Lighting Legend
Wall	Ceiling	
	R	Recessed incandescent
	® L∨	Recessed incandescent low voltage
	R CFL	Recessed compact fluorescent
		Recessed fluorescent troffer
		Hidden light fixture fluorescent T5 or xenon strip light
\bigotimes	\otimes	Exit sign (dark portion indicates location of lettering)
∇		Track lighting—broad side of triangle indicates beam side
↔		Light switch
ε_{\clubsuit}		3-pole switch
α\$		Dimmer switch
Refe on yo	r to this l our plan; e symbol:	Refer to this list as you prepare your Lighting Plan; show only these items on your plan; use only these fixtures to solve the problem and use only these symbols—do not make up your own symbols.



Timed Design Exercise

Reflected Ceiling Plan Business Coach, Lite Version

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

P2-3