FINE FSIGZ EX

Instructions to Students

- Read all of these instructions before beginning the exercise.
- Ņ 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 ω Review the matrix, material options, and material schedules P1-1.
- ς interior P1-1. Review the floor plan P1-2.
- in each area. 7. Complete t <u>ი</u> Read the entire project description and carefully review the requirements
- Complete the adjacency matrix P1-1
- œ Space plan on the sheet given to solve the problem defined (following).
- <u>.</u>9 by circling it on the schedule P1-1 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

Code Requirements

- 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.
- change in direction. Paths of travel not required for egress are not bound by this restriction. Barrier free requires a 5' turning circle (show as a dotted line) at every
- • 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
- 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 pull
- 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 window
- Floors in areas with sinks must be slip resistant.
- • Surfaces in bathrooms and washrooms must be moisture resistant

Design Requirements

provided using ink or felt tip (it will be assumed that all pencil is preliminary to solution. 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 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

on the project requirements list. 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 required with the label for such items where the specific requirement is noted Complete the partition and furniture plan on P1-1, showing typical required

Project Description

studying ecosystems and wildlife. Views are important to all spaces. This facility also provides overnight accommodations for visiting researchers inhabited for a few months at a time throughout the year by grad students. This river keeper's cabin is a research facility and meeting place; it is

to be determined by you and indicated on the plan with a dotted line). Wall-mounted sinks and toilets may be an additional 8' outside circle and chemical All floor drains to sewer should be within a 36' diameter circle (circle location sink to reservoir in lab may be outside the circle.

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

best views and egress for your plan. You must determine and show these With the exception of the front door, windows and doors can be located for locations on your plan.

Research, Investigative, and Facility Function

Lab

- Station equipped as follows:
- a. Lab counter providing 12 lineal feet of counter space 30" deep b. Sink 12" wide \times 18" from front to back; counter to be additional to work Lab counter providing 12 lineal feet of counter space 30" deep
- <u></u> space Storage below to be accessible from work area

2. Desk providing 12 square feet of surface holds a computer and a phone, task chair is to be provided.

3. Locked cabinet for chemicals and supplies is 30" wide \times 18" deep from front to back.

Research and Records

computer and phone. Each with a task chair. 1. Two desks each providing 12 square feet of work surface that holds a

- 24' of lateral files
- ω 25 lineal feet of bookshelves

River Supplies

- Closet 4' wide \times 2' deep full height (for waders, raincoats, nets, etc.) Bench 5' wide \times 1.5' deep from front to back
- This area is to be located near an entrance on the riverside of the building

by dotted line on solution sheet

- 15 chairs, each measuring approximately 18" wide \times 24" deep from front
- Folding table for presenter/instructor is $30'' \times 60''$ with 3 chairs
- ω Closet 30" deep from front to back \times 5' wide, full height
- Classroom must be barrier-free.

outside. Allocate 6' of closet or 12" of wall for Guest coats for 26 must be stored immediately Living Space for Staff and Visitors

Sitting Room

- Lounge seating for four to six
- 20 lineal feet of book shelving equipment requires 18" wide \times 17" deep \times 15' 3. Shelving unit containing TV 30" wide \times 24" Set-down surface reachable from each sea

Kitchen

- 15 lineal feet clear counter space over base
- 10 lineal feet of upper cabinets
- 3. Full-height refrigerator 30" wide \times 28" deep
- 4. Undercounter dishwasher $24'' \times 24''$
- .√ <u>.</u>6 .5 Microwave 21" wide \times 18" deep \times 15" tall Sink 24" wide \times 18" deep from front to back
- Range 24" wide \times 30" deep
- Table and chairs for 6 people

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1. Double bed 54" wide \times 75" long Two separate sleep spaces for grad students

- Set-down surface each side of bed minimum
- 3. Dresser 6' wide \times 20" deep from front to ba
- 4. Closet with 3' of long hanging and 4' of sho
- Shared bathroom immediately adjacent to slee 1. Vanity cabinet 30" wide \times 22" deep containi
- 3. Tub 2'5" wide \times 5'0" long with shower. Indi 2. Toilet
- head and faucet)
- 4. Linen closet 24" wide imes 24" deep full heigh
- Bathroom to be used by visitors 1. Vanity cabinet 24" wide \times 22" deep containi
- 2. Toilet
- This bath must be accessible

Utility Room

120 square feet centrally located; must be within the plumbing circle defined

Classroom

- to back

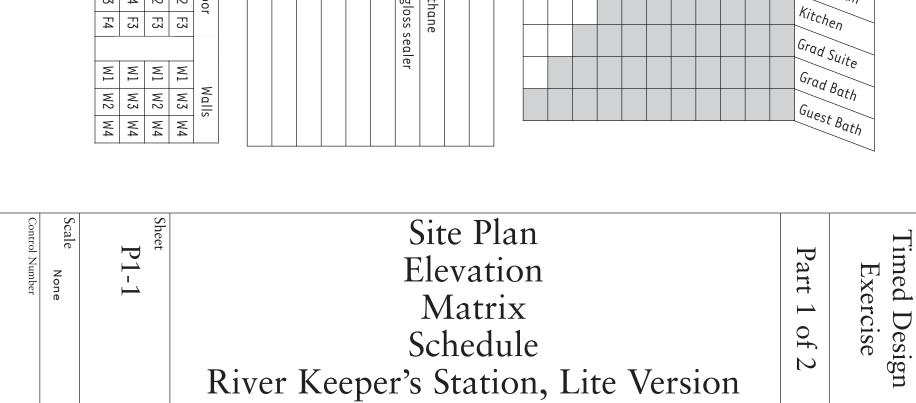
	_	laggered nighnow pegs. deep × 28" tall; stacked stereo tall space when stacked cabinets and appliances - 24" wide × 20" deep ck × 30" tall rt/double hanging o spaces ng sink ng sink ng sink	to a doo	
Scale None	Sheet	Part One of Design Exercise	Part 1 of 2	Timed Design
Student Control Number	C – 1	River Keeper's Station, Lite Version		Exercise

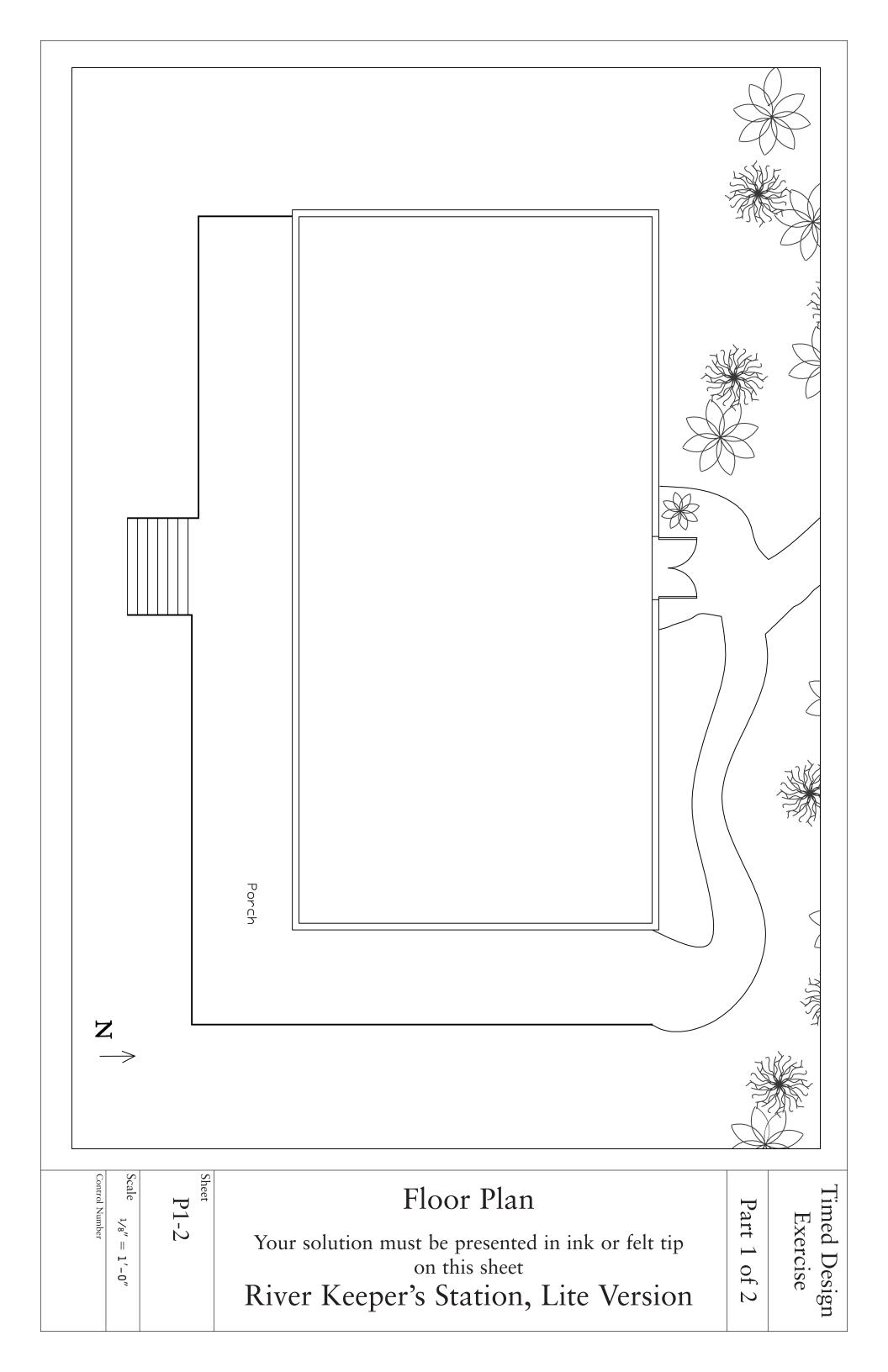


Adjacency Matrix Use only these symbols; do not make up your own symbols	Matrix ols; do not ma	ke up your ov	vn symbols.
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X Remote	Main E Lab	Reseau Classru River Su	Utilitie Sitting Kitche
Main Entry			
Lab			
Research			
Classroom			
River Supplies			
Utilities			
Sitting Rm			
Kitchen			
Grad Rms			
Grad Bath			
Guest Bath			

Т	Floor
F1	45 oz low-level loop commercial nylon carpet
F2	Stained concrete sealed 3 coats matte nonslip uretha
F3	Ungauged slate with heavy cleft face acrylic high-glos
F4	Recycled rubber tiles
W	Walls
Μ1	Washable gloss low VOC paint
W2	Satin, low VOC paint
W3	Ceramic tile
W4	Textured commercial vinyl wall covering

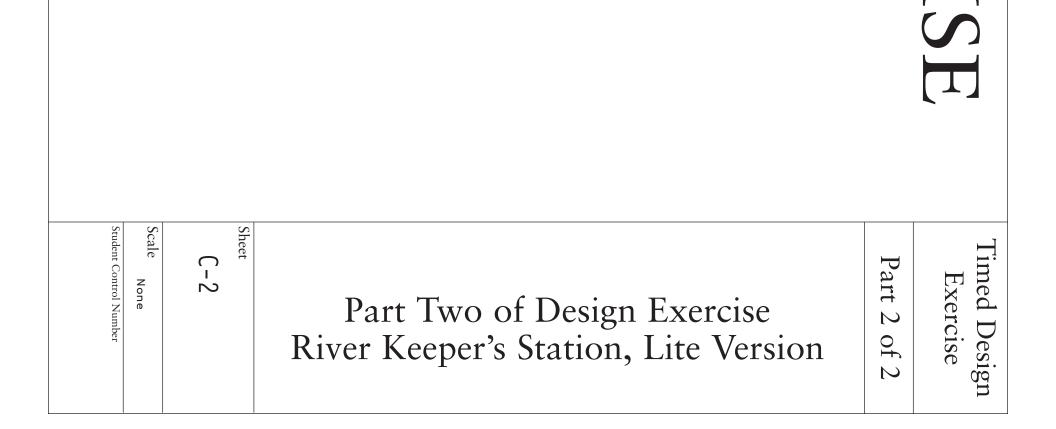
Kitchen	table above for material Sleep Space F1 F4	the right by referencing the Lab	choice from those listed to Class Rm	Area	
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F1	F1	Fl	F1 F2		
F1 F3	F4	F2	F2	Floc	

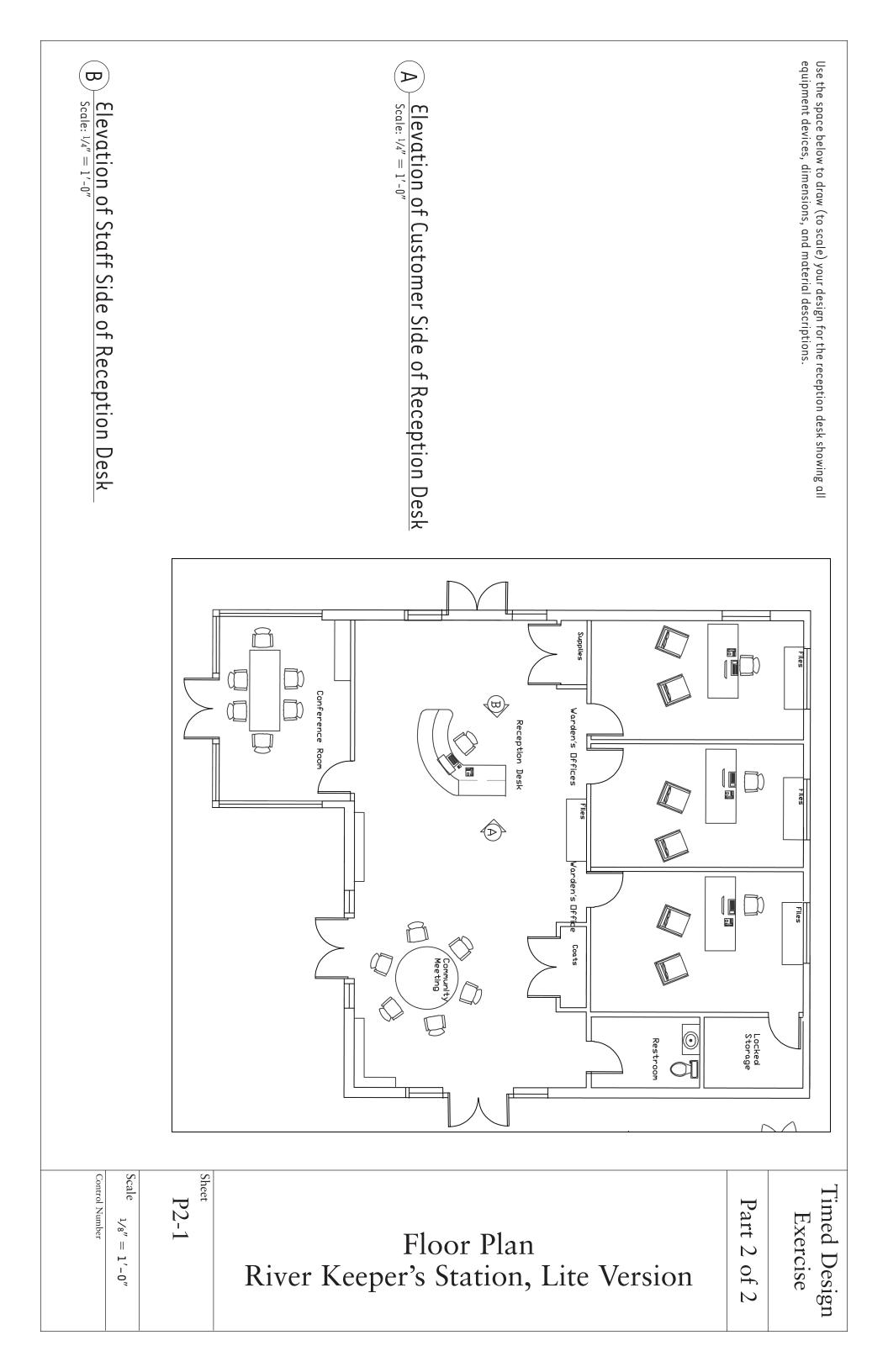


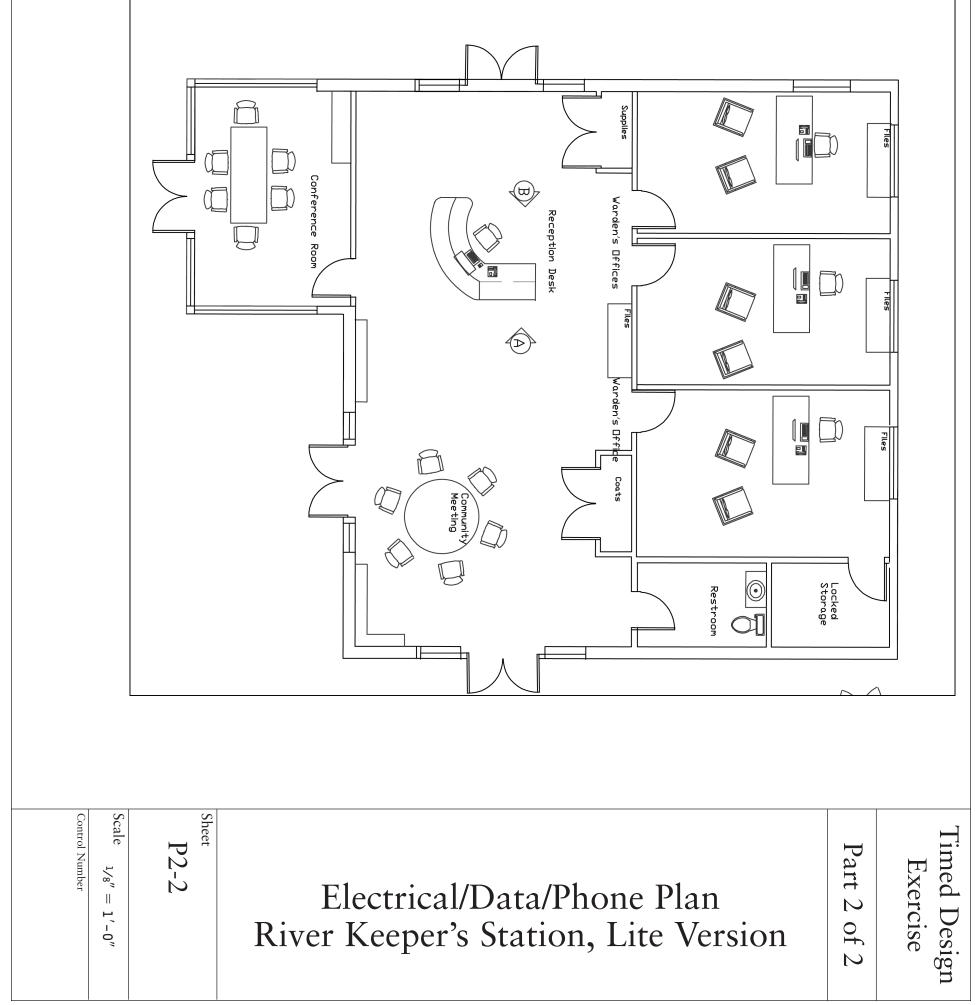


Design Requirements All items, adjacencies, and attributes mentioned in this document are required in your solution. Use a freehand sketch or drafting to represent items in accurate scale. Draw your solution on drawing sheets provided using ink or felt tip (it will be assumed that all pencil is preliminary to your final solution and not intended as part of your final solution).	Additional Scope of Services The game warden is a separate function from the river keeper, but the two departments do collaborate, as they have overlapping missions. It is a goal of this state that the warden's offices be viewed by citizens as an outdoorsman's resource rather than a policing function, and an institutional atmosphere is to be avoided as much as possible.	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 to direct people safely out of the building without confusion as to the exit locations. Exit signs must not direct people into the enclosed space of another room before delivering them to an exit to the outdoors. Where practical, wall outlets and ports are preferred over floor-mounted outlets and ports. Electricity, voice, and data devices required of the reception desk are to be brought up into and permanently affixed within the built-in reception desk. 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 where a person might walk.	 Instructions to Students Read all of these instructions before beginning the exercise. Review the project and code requirements and additional scope of services. Review the floor plan P2-1; notice the layout for your lighting and electrical planning and also the elevation symbols indicating the two elevations for the reception desk, which are to be drawn on sheet P2-1 at 1/4" = 1'-0" (requirements follow). Review all of the symbols and electrical requirements on sheet P2-2. Locate the electrical and communication devices required on the electrical/data/phone plan, sheet P2-2. Create a reflected ceiling plan on sheet P2-3 showing all lighting locations. Write your control number where indicated in the lower right corner of every sheet—even the ones that you don't write on. 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 your own symbols. 	TIMED
		 Electrical Plan 1. Review the requirements on sheet P2-2 and provide for all required devices. 2. Note heights of all devices that are not to be located at the standard 18" AFF. Lighting/Reflected Ceiling Plan Energy conservation to be balanced with effective lighting techniques in display and sales areas. Solution to be safe and conform with codes. 	 Show your design for the reception desk with elevations where indicated on P2-1. Reception Desk The design of the reception desk is to be congruent with nature themes. A computer monitor sits on the desk 30" AFF. The device that connects and powers the cpu is to be located 24" AFF in a closed-door storage unit within the desk. A phone is also located on the desk connected and powered by a device located in the vertical support for the transaction top. A printer is located on a pullout shelf below desk height. Two trash containers (one for paper, one for trash) are each 8" × 12" × 15" tall. A box file pedestal base for supplies and filing for current projects. Additional closed storage with one adjustable shelf for paper storage. Label all finishes/surface materials for the desk; note incremental and overall dimensions. Use hidden lines and notes for all requirements that are not visible from assigned views. 	DESIGN EXERCI

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e symbols-	Girling Legend Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting with backup battery power (always on) Image: Security lighting battery (always on) Image:	Ging Recessed incondescent © F © F @ Dimmer switch @ Dimmer switch @ F @ P @ F @ P @ P @ P @ P @ P @	Syntring Legend Ging © Reessel incondecent © Reessel incondecent © Reessel incondecent © Reessel fuorescent torfe Hidden light fuurescent torfe © Exit sign (dark portion indicates location of lettering) © Exit sign (dark portion indicates location of lettering) © Exit sign (dark portion indicates location of lettering) © Exit sign (dark portion indicates location of lettering) © Exit sign (dark portion indicates location of lettering) It this list as you prepare your lighting plan; show only these items our plan; use only these instrumes to solve the problem and use only e symbols-do not make up your own symbols.	Gilling Recessed incondescent Q: Security lighting with backup battery power (clowgs on) Q: Recessed fuorescent troffer Hidden light fitture fluorescent To fire Q: Existing (clock) portion indicates location of lettering) Q: Upmer switch Dimmer switch Dimmer switch V Upmer switch V: Upmer switch V:	Ighting Legend Avail Geing Q: O Second fundescent Q: O Recessed fundescent Q: O Recessed fundescent Recessed fundescent Fundescent Q: O Second fundescent Q: O Second fundescent Recessed fundescent Fundescent Q: O Second fundescent Recessed fundescent Fundescent	Spring Freesed incurdiscent Secondly lighting with backup backup backup power (always on) Secondly lighting with backup	Refe on y thes	-↔ □	ω -€	^	$\mathbf{\mathbf{\hat{S}}}$				НЭН	H R E		Wall
g Legend Recessed incondescent Security lighting with backup battery power (always on) Recessed compact fluorescent Recessed fluorescent troffer Hidden light fixture fluorescent T5 or xenon strip light Portable task or table lamp Exit sign (dark portion indicates location of lettering) Exhaust fan/light Light switch 3-pole switch Dimmer switch Dimmer switch see only these fixtures to solve the problem and use only s-do not make up your own symbols.	g Legend Recessed incondescent Security lighting with backup battery power (always on) Recessed fluorescent to ffer Hidden light fixture fluorescent To or xenon strip light Portable task or table lomp Exit sign (dark portion indicates location of lettering) Exit sign (dark portion indicates location of lettering) Exit sign (dark portion indicates location of lettering) Ist as you prepare your Lighting Plan; show only these items use only these fixtures to solve the problem and use only s-do not make up your own symbols.	g Legend Recessed incandescent Security lighting with backup battery power (always on) Recessed fuorescent troffer Hidden light fixture fluorescent T5 or xenon strip light Portoble task or toble lamp Exit sign (dark portion indicates location of lettering) Exhaust fan/light Uight switch Dimmer switch use only these fixtures to solve the problem and use only s=do not make up your own symbols.	g Legena Reessed incondescent Security lighting with backup battery power (always on) Recessed compact fluorescent Reessed compact fluorescent Recessed compact fluorescent Partable task or table lamp Exit sign (dark portion indicates location of lettering) Exhaust fam/light Light switch Dimmer switch inst acyou prepare your lighting Plan; show only these items 	g Legend Reessel incondescent Security lighting with backup battery power (nlwnys on) Reessed fluorescent troffer Partable task or table lamp Edit sign (dark portion indicates location of lettering) Ethast fau/light Uight switch Dimmer switch Uight security base fixtures to solve the problem and use only s-do not mole up your own symbols.	g Legend Reesel incredent Security lighting with backup battery power (diways on) Reesel fluorescent traffer Researd fluorescent fluorescent traffer Researd fluorescent fluorescent traffer Researd fluorescent traffer Researd fluorescent fluorescent fluorescent fluorescent fluorescent Researd fluorescent fl	5 LeGener Recessed incondescent Recessed functions that backup battery power (througs on) Recessed functions and the power (through battery power (thro	e symbol			R		8		\sum	R CFL		R	Ceiling
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