



# project guiding principles.

transform

propel

link

leverage

honor & innovate

inspire

sustain

equity

adapt

lighten

existing





existing





# Sustainability

- Light pollution reduction
- Increase daylight
- Historical Landscaping
- Storm water quantity control
- Energy use target: SEG modeling, AIA 2030
- On-site energy generation
- Materials re-use
- Pre-occupancy IAQ management
- Low-emitting furnishings
- Interior wall insulation

# Increase daylight in building

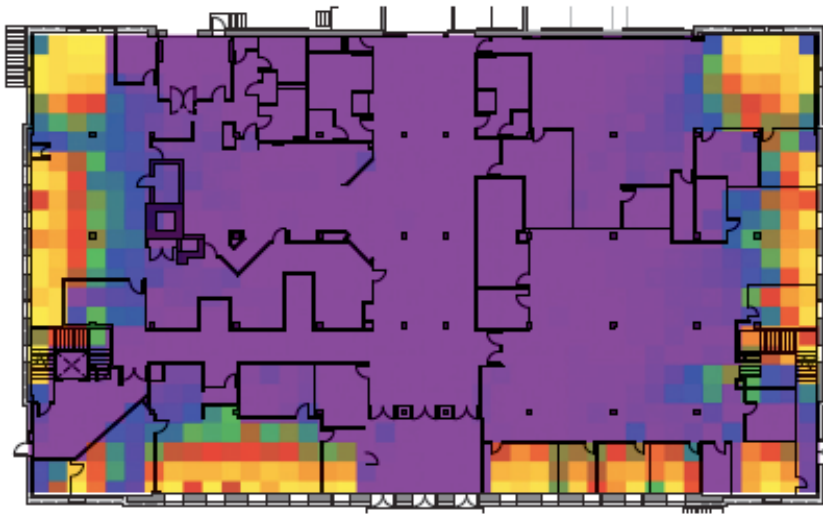


# Increase daylight in building

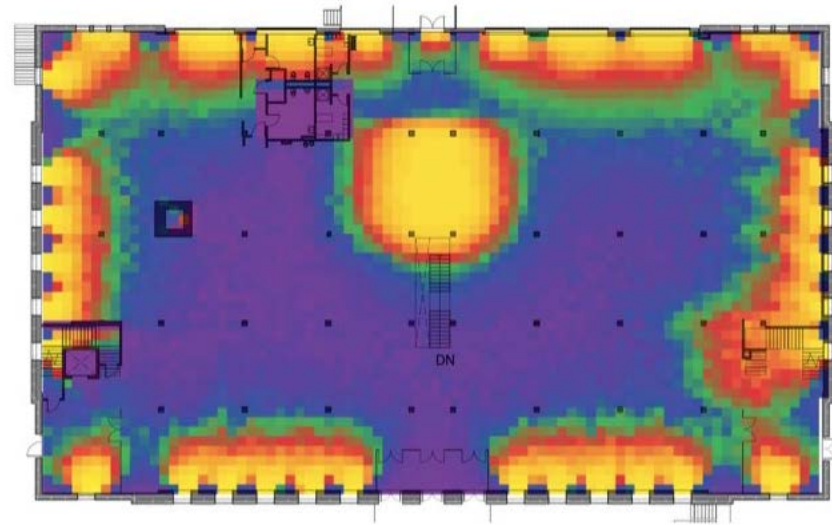




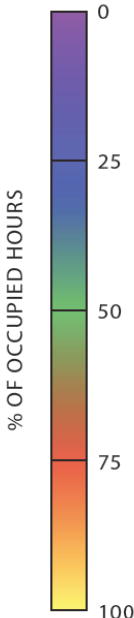
# daylight penetration study



first floor - existing



first floor - with new windows  
+ skylight



(legend shows annual average % time with 300 lux at desktop)



# Exterior Lighting



VERY NARROW  
10 DEGREE LED SPOT

ONE PER COLUMN



facade lighting - proposed - option b

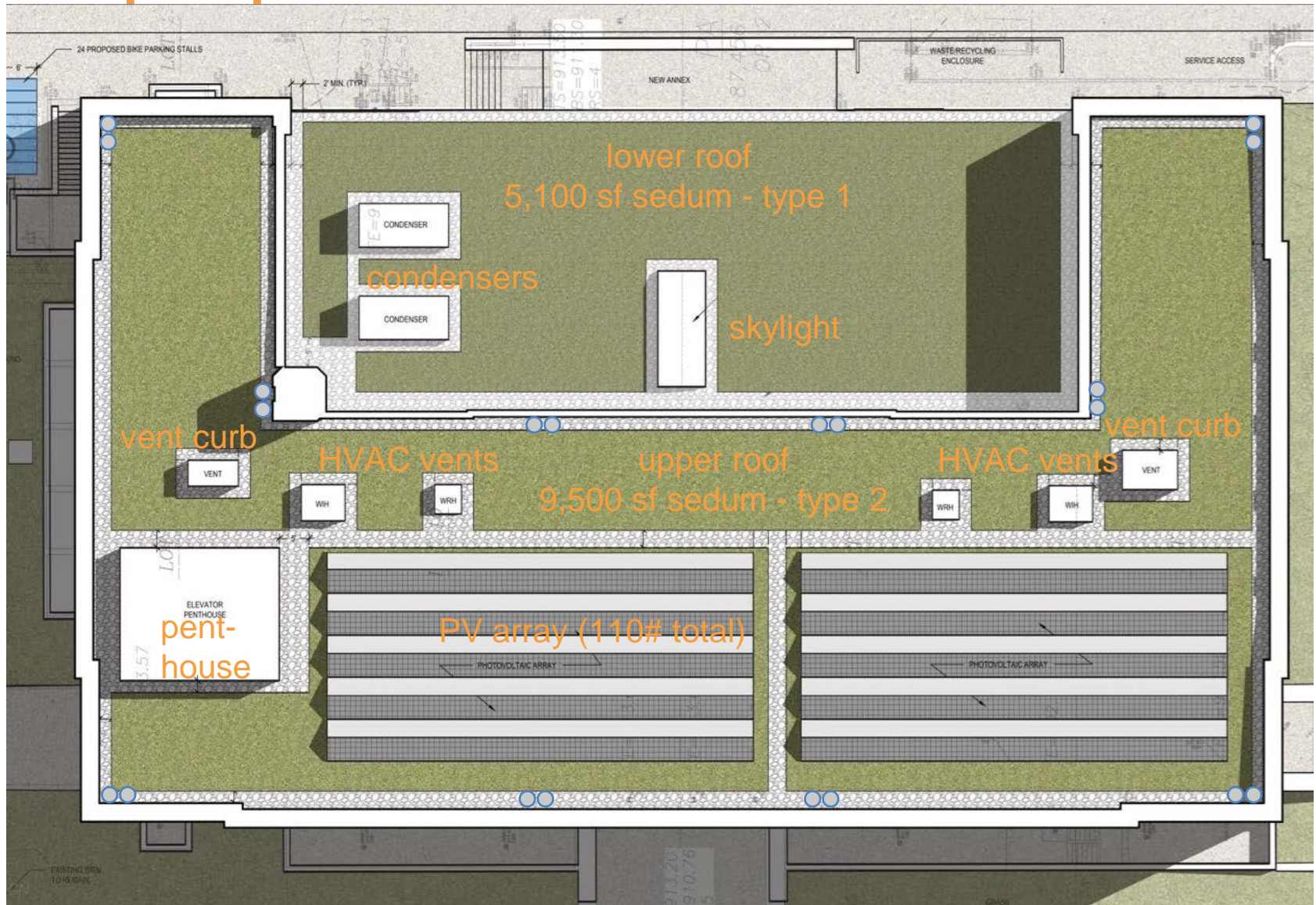


# existing roofs





# roof proposals



roof plan



# roof concepts

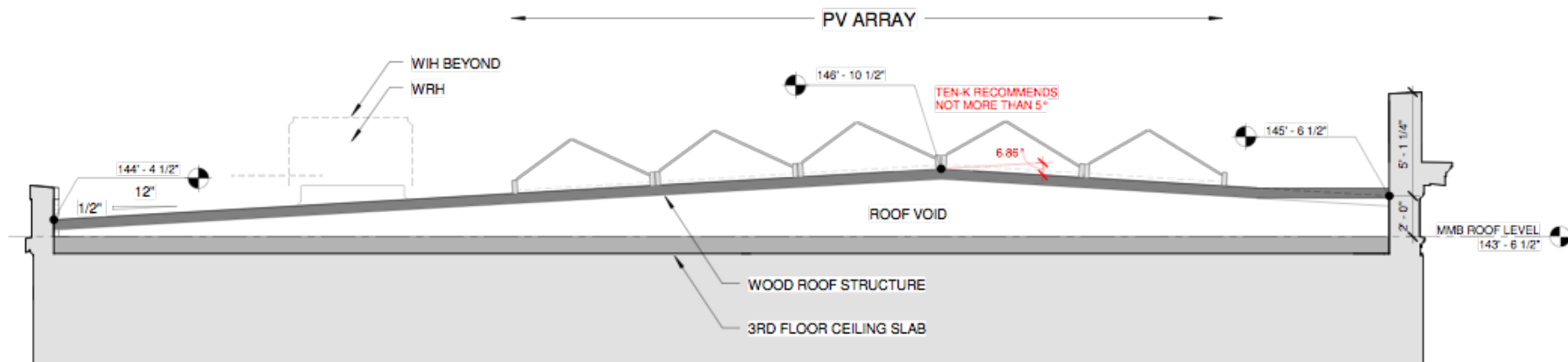


Dejope Residence  
Hall at UW-Madison  
pre-vegetated mat,  
interplanted with  
perennial plugs

extensive green roof



# roof concepts



# photovoltaic array geometry

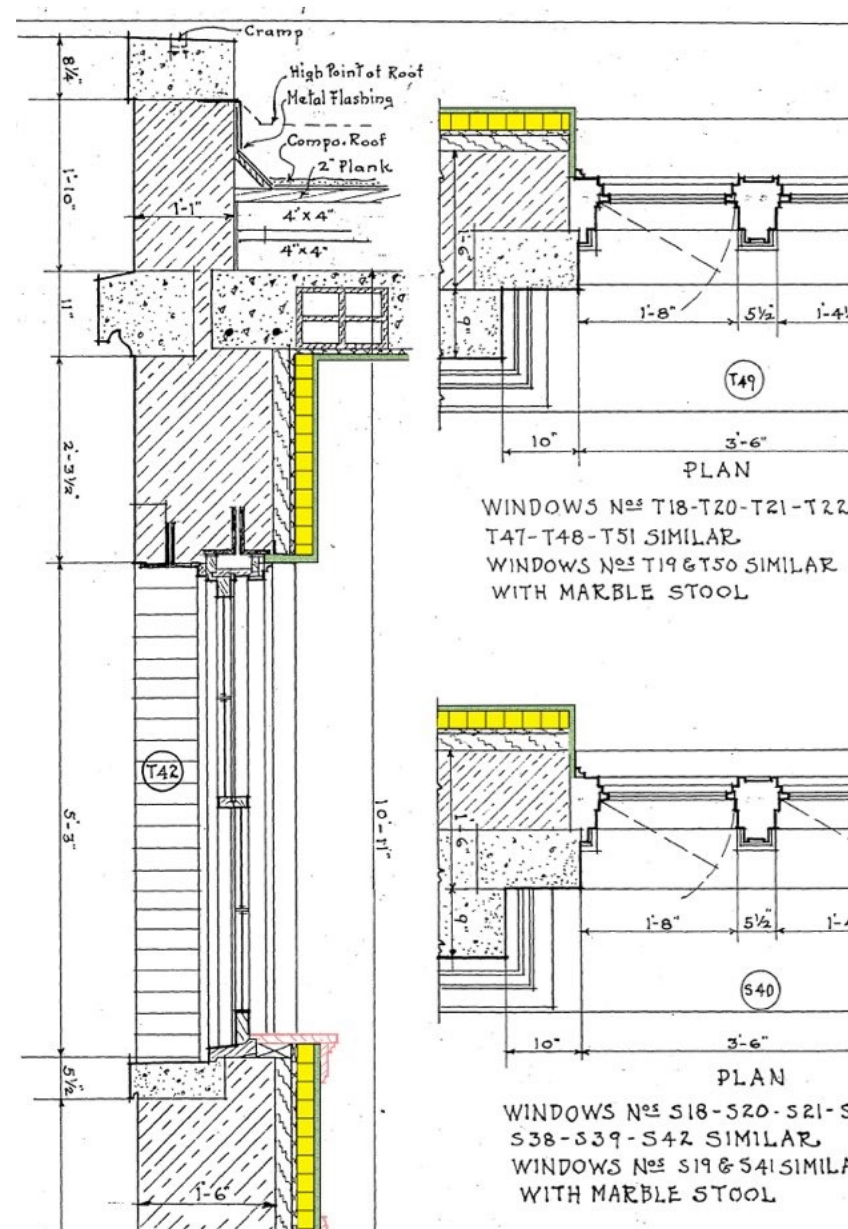
# building envelope: wall options

## Option A:

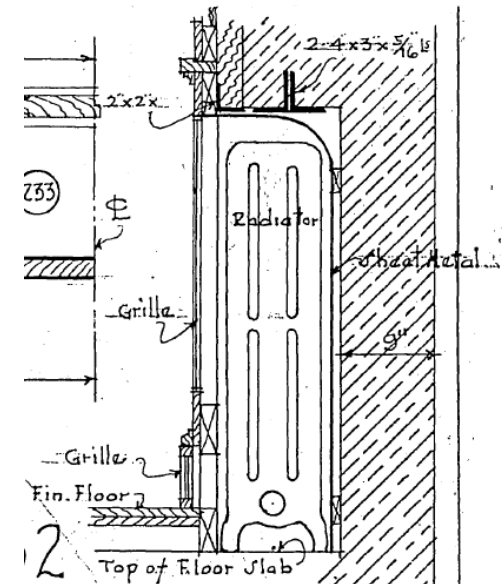
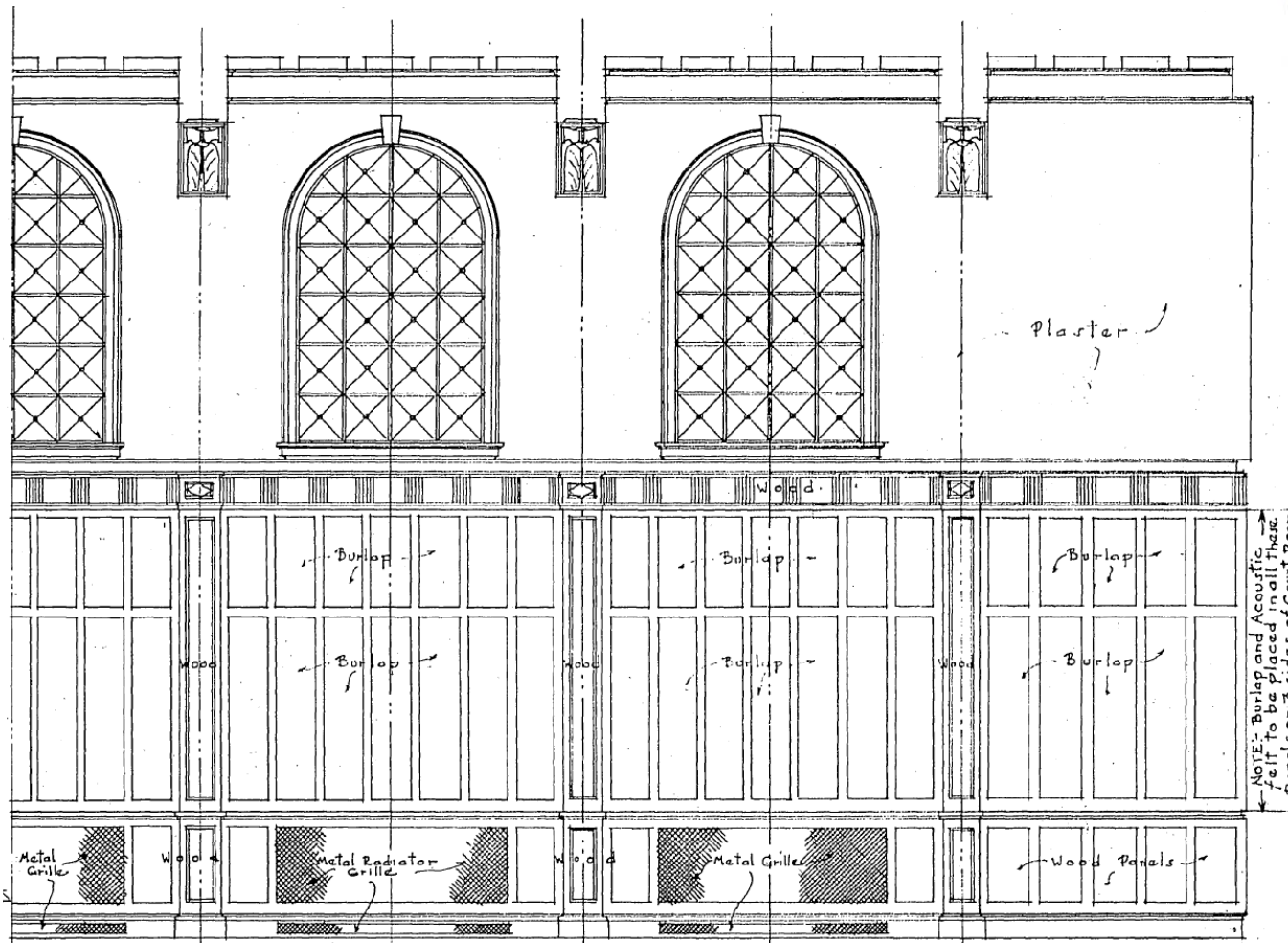
- leave existing as is.
- Achieves approx. R-5.

## Option B:

- leave existing as is.
- add 3"-4" furring and drywall to capture 2" max. new rigid insulation. Any thicker insulation adversely affect moisture content in the wall.
- Achieves approx. R-10.
- also captures limited thickness piping and most wiring for power and data.
- do not use oil-based paints or finishes that could act as a vapor barrier on these walls



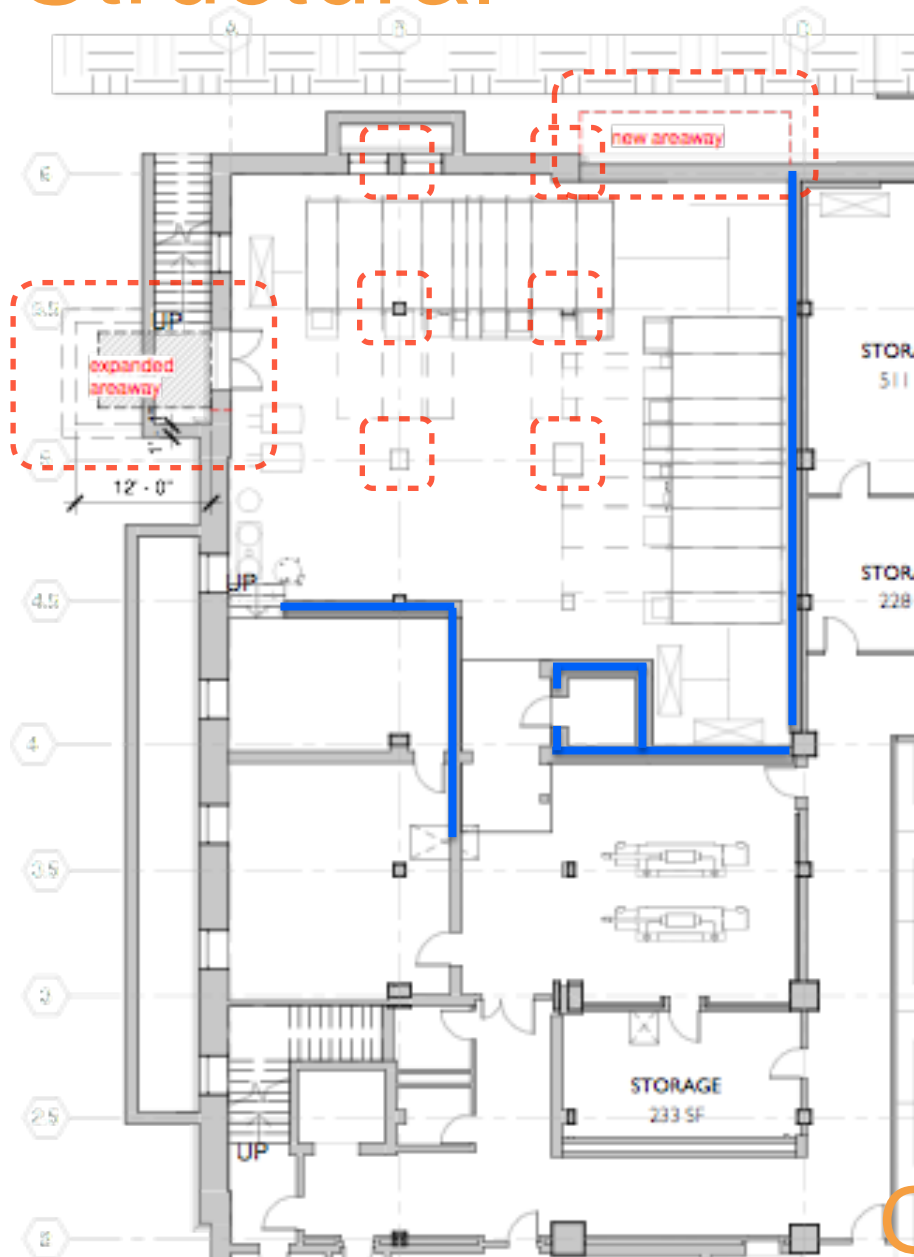
# HVAC treatment - Room 260



Room 260 - original treatment



# Structural



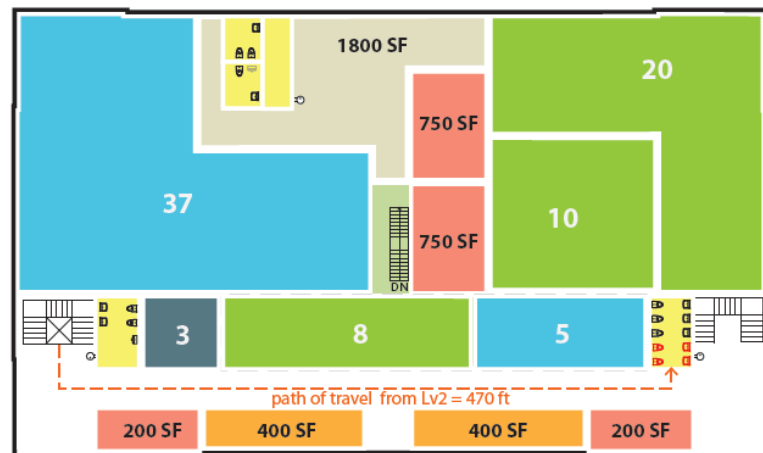
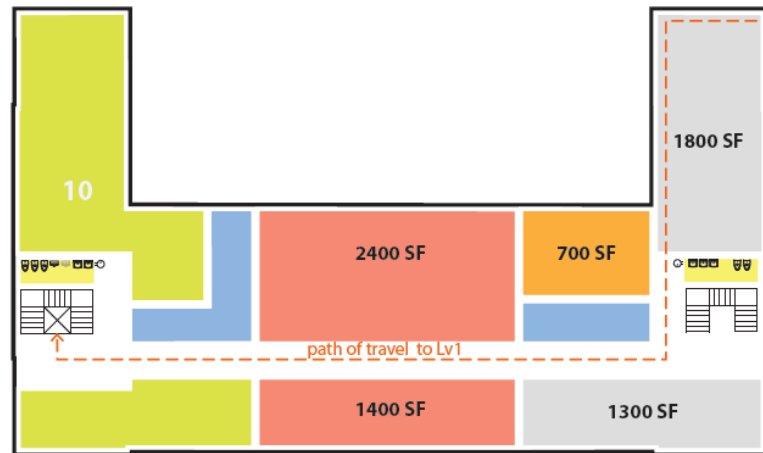
Requirements for mechanical equipment fit:

- remove two existing columns along grid 5.5.
- Expand existing areaway at west side.
- add new areaway to achieve approx. 200 sf ventilation louver along north facade.

— structural walls to remain  
□ area of structural adjustment

## Ground floor mechanical

# D4 Plumbing fixture study



	2400sf	1400sf	1800sf	700sf	1300sf
business (1/100)			18	7	13
classes (1/20)			90	35	65
meeting (1/15)	160	94			
assembly (1/7)	343				

## lv 1 + lv 2 shared

		required → exg + new			
option 1	occ	WC	LAV	DF	
Lv2 A-3 + B:	254 + (38 + 10)	♂ 5 → 4 + 2 ♀ 7 → 4 + 3	3 → 3 + 2 3 → 4 + 3	2 → 2	
Lv1 A-3 + B:	199 + 83				

		required → exg + new			
option 2	occ	WC	LAV	DF	
Lv2 A-3 + E + B:	437 + 190 + 10	♂ 7 → 5 + 3 ♀ 9 → 4 + 5	5 → 3 + 2 5 → 4 + 5	5 → 5	
Lv1 A-3 + B:	199 + 83				

	750sf	750sf	1800sf	(2)* 400 = 800sf	(2)* 200 = 400sf
meeting (1/15)	50	50		54	27
business (1/100)			18		

first and second floors





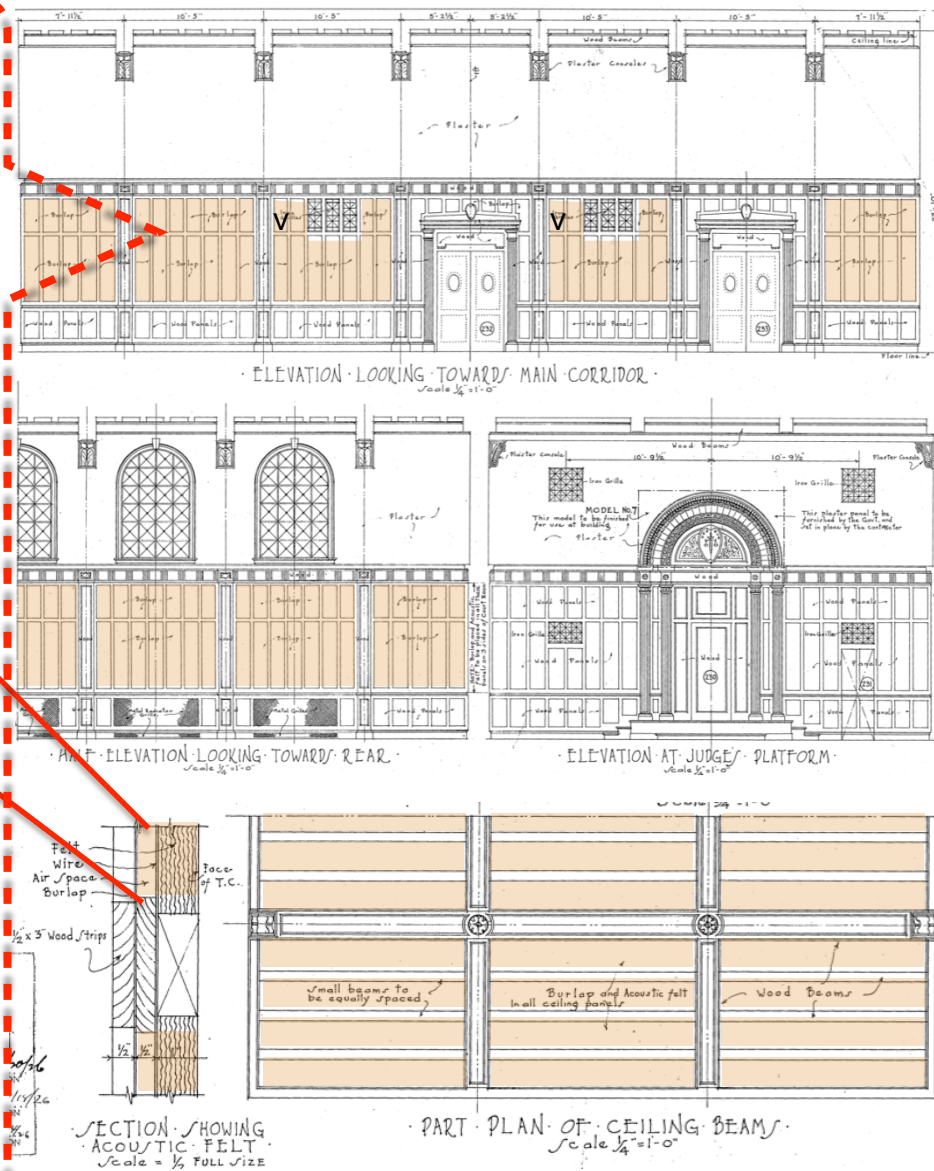
# ROOM 260 - Acoustics



# ROOM 260 - Acoustics

80s PANELS

80s PANELS





# ROOM 260 - Acoustics



Existing panels are 1/2" thick so likely fiberboard, not fiberglass, so not very effective acoustically.

Achieves approx. NRC 0.15.

Recommendation:  
Stretch fabric system, such as Fabritrak.



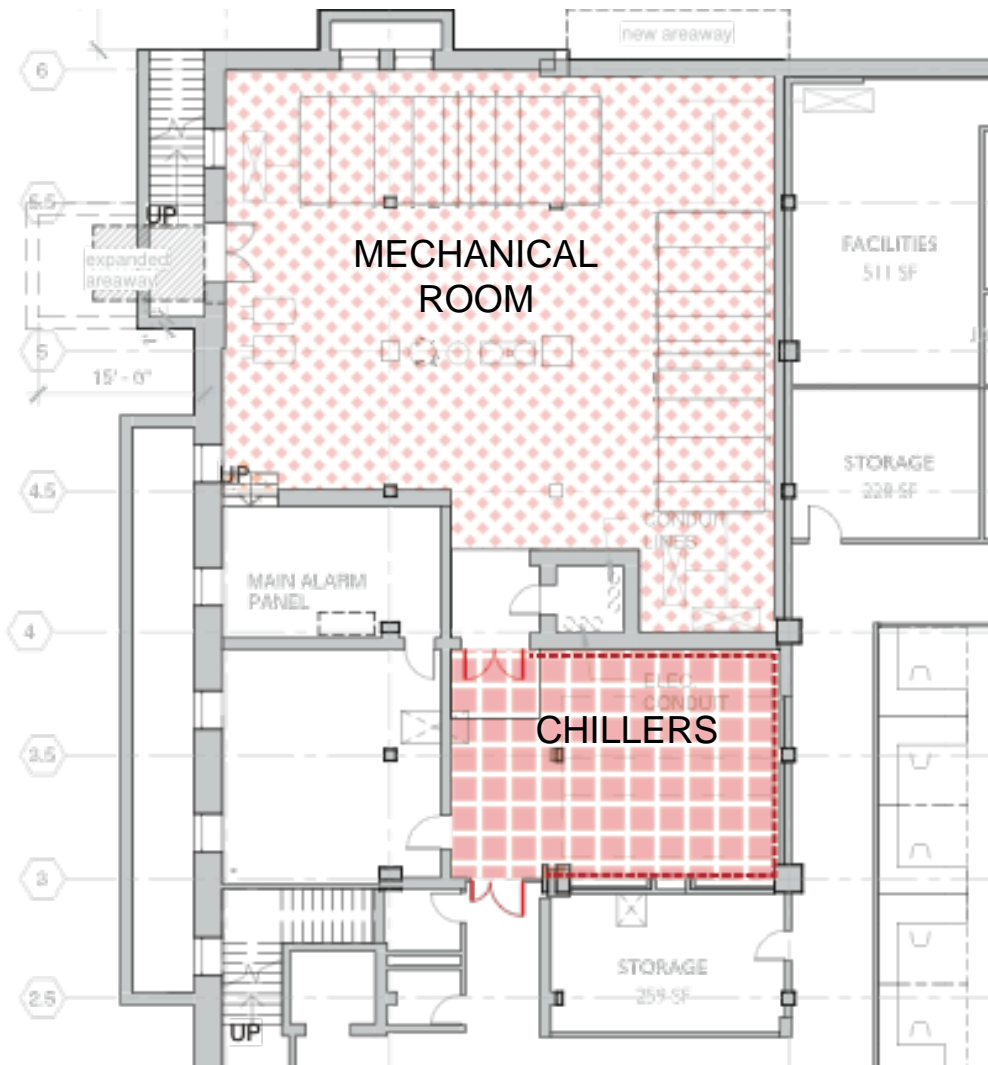
Use burlap-looking fabric to resemble the original.

Remove felt from the cavity and fill the 1" deep space with glass fiber.

Would be more effective acoustically due to material performance and thickness.

Examples of Fabritrak installation for commercial and public spaces.

# Acoustics - Mechanical



## Recommendations:

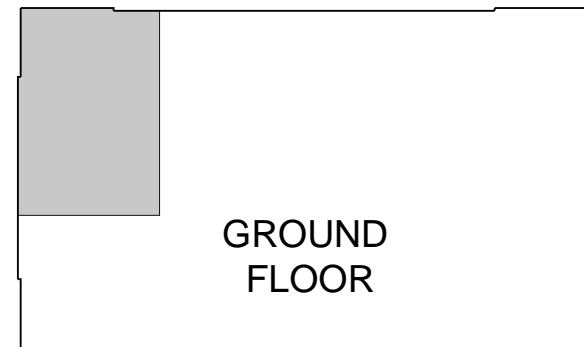
### mechanical room:

acoustical spray-on treatment for ceiling.

### chiller room:

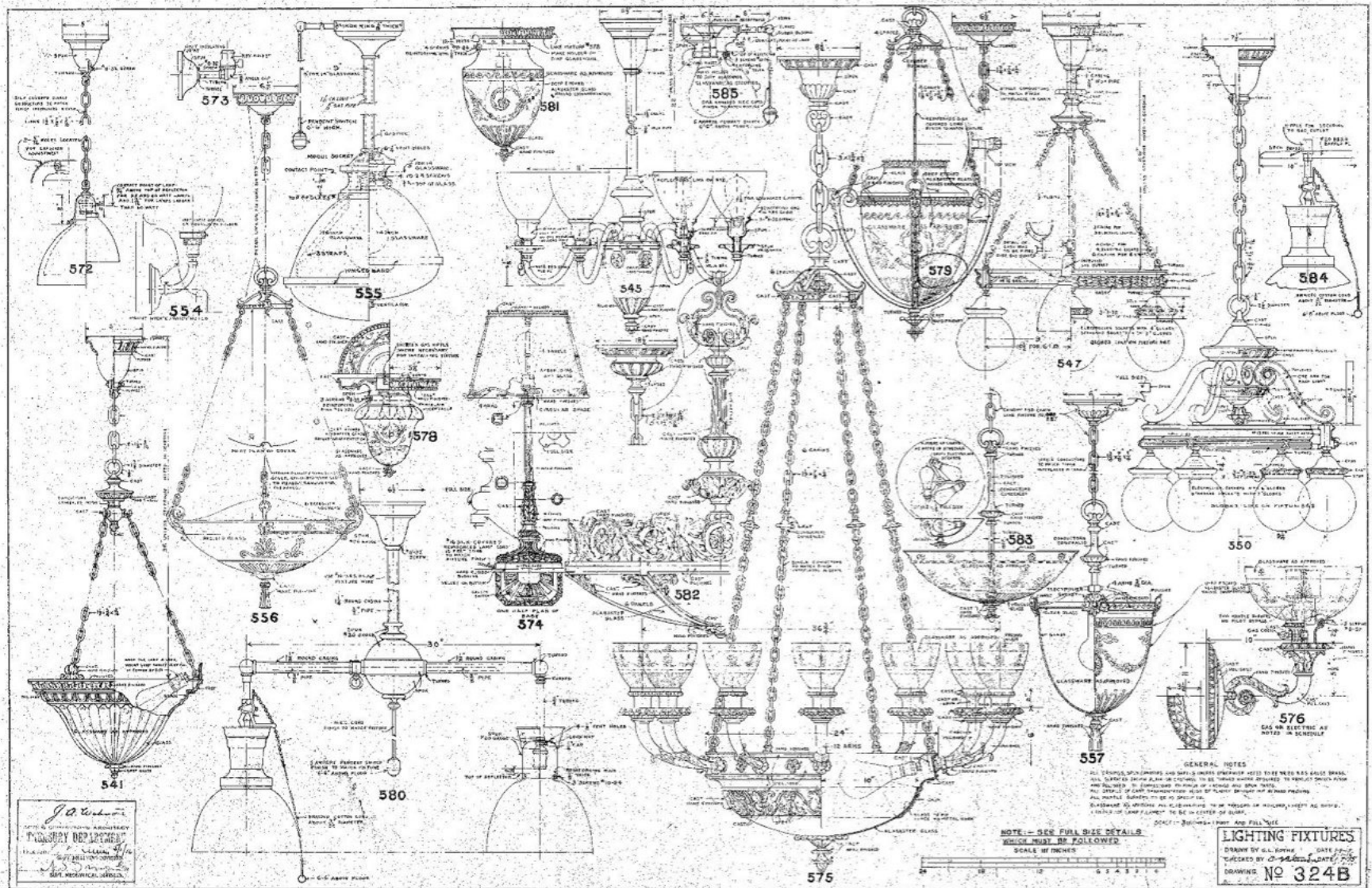
additional gyp walls and resiliently hung ceiling

STC 50 rated doors





# Lighting



historic lighting - original



# Lighting



ROOM 260 - PLASTER MOLD

LEVEL I CORRIDOR  
GLASS  
GLASS ETCHED  
OPAL ACRYLIC



historic lighting

# Lighting

## RATED SERVICE LIFE

SOLID STATE LED	50,000 hr L70
T5 FLUORESCENT	30,000 hr / 36,000 hr
T5HO FLUORESCENT	45,000 hr / 60,000 hr
T8 FLUORESCENT	65,000 hr / 67,000 hr



TYPE A T5  
TYPE A SOLED

3" RECESSED LINEAR



TYPE B T8

1X4 VOLUMETRIC



TYPE C T5HO  
TYPE C SOLED  
TYPE D T8

2" X 2" SUSPENDED  
INDIRECT



TYPE E T5HO  
TYPE E SOLED  
TYPE F T8

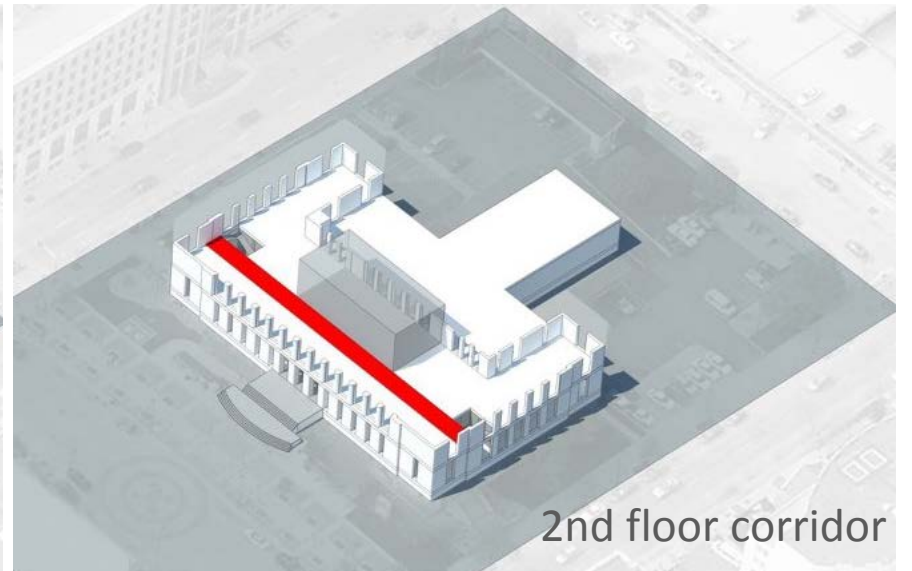
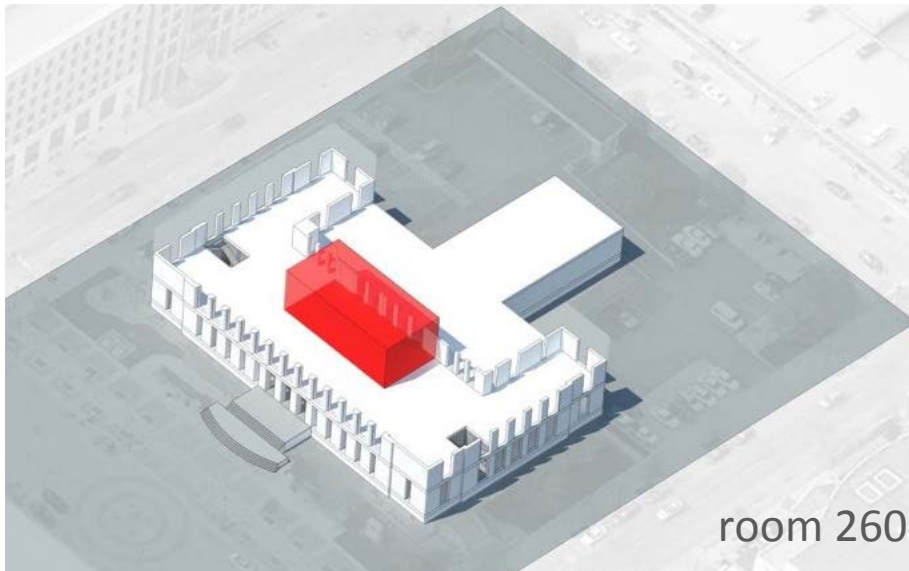
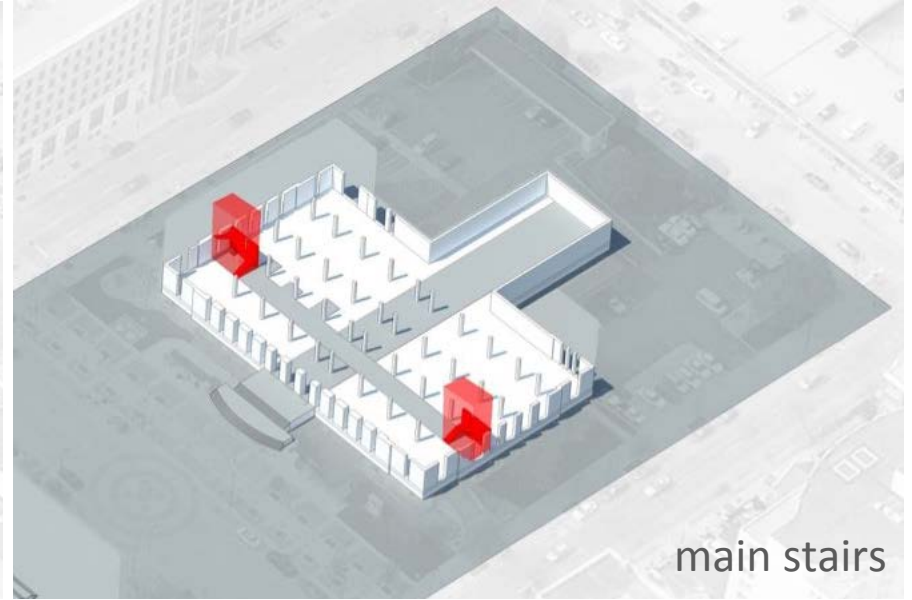
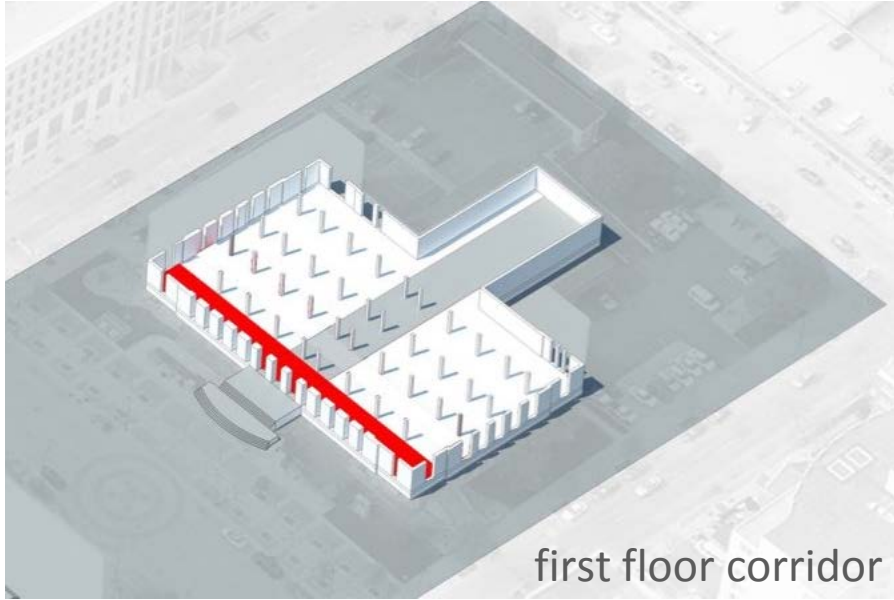
2" X 4" SUSPENDED  
DIRECT + INDIRECT

workplace lighting

# Project Driver: History.



# historic spaces



# opportunities



# Project Driver: Quality Workspace.

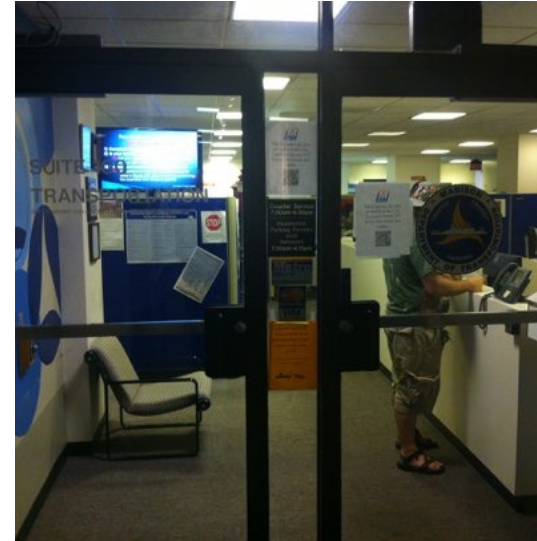
reorganize floors for efficiency/flexibility

improve daylight

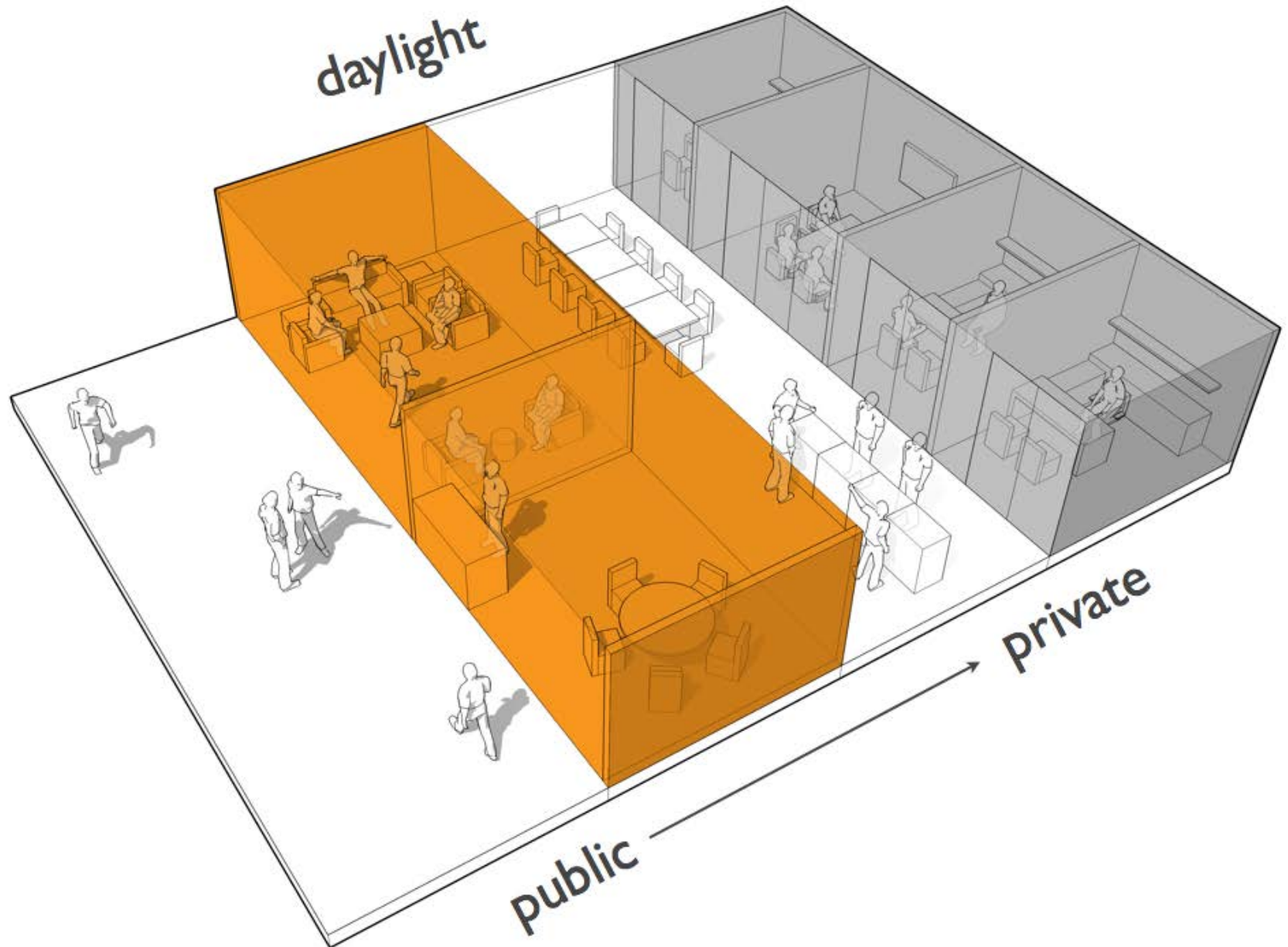
provide spaces to support daily work



# existing staff workspaces.



zoned public to private.





opportunities

westlake reed leskosky





# opportunities



hathaway dinwiddie

# opportunities



hathaway dinwiddie

Program test fits.



existing



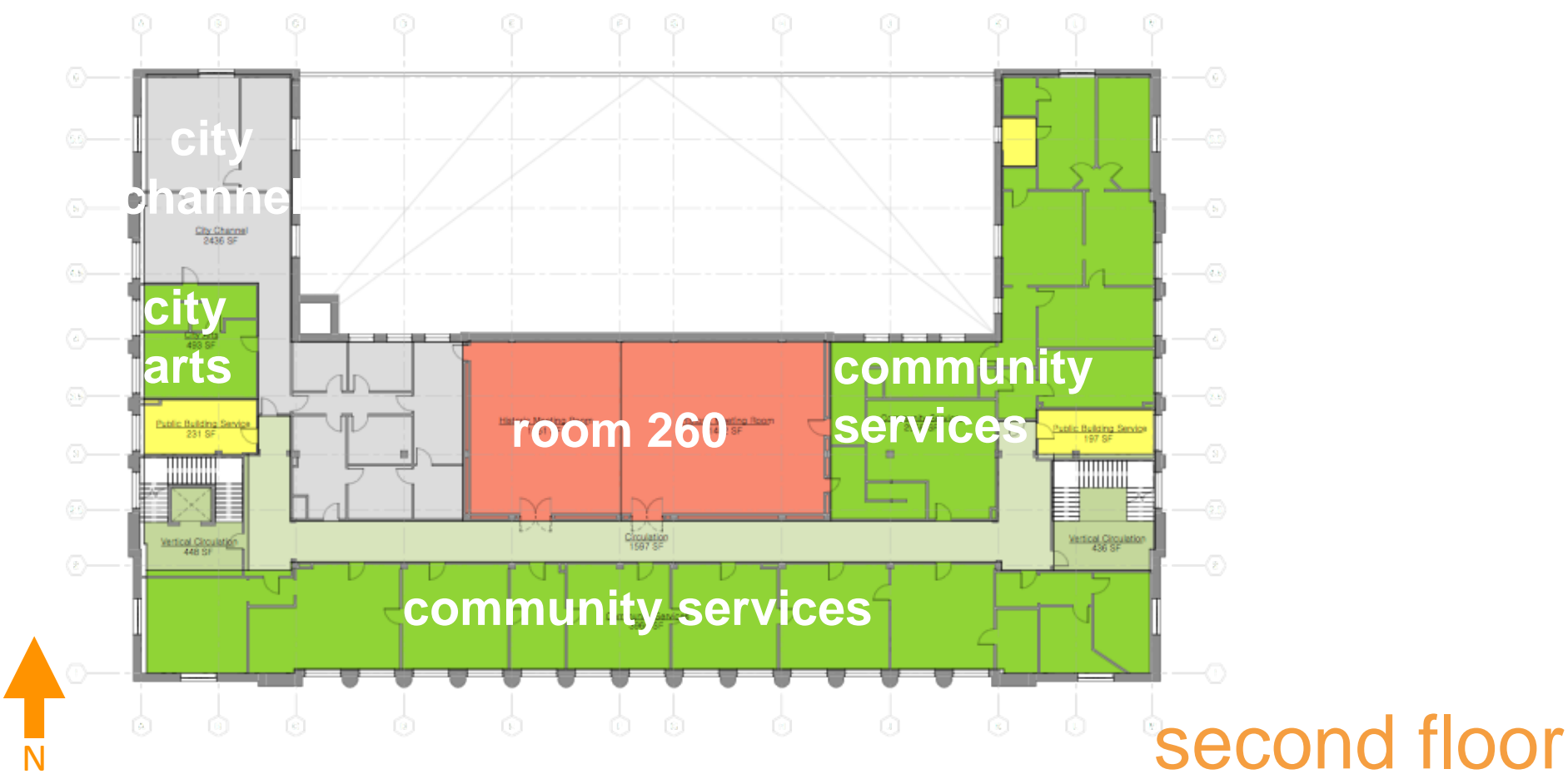
ground floor

existing



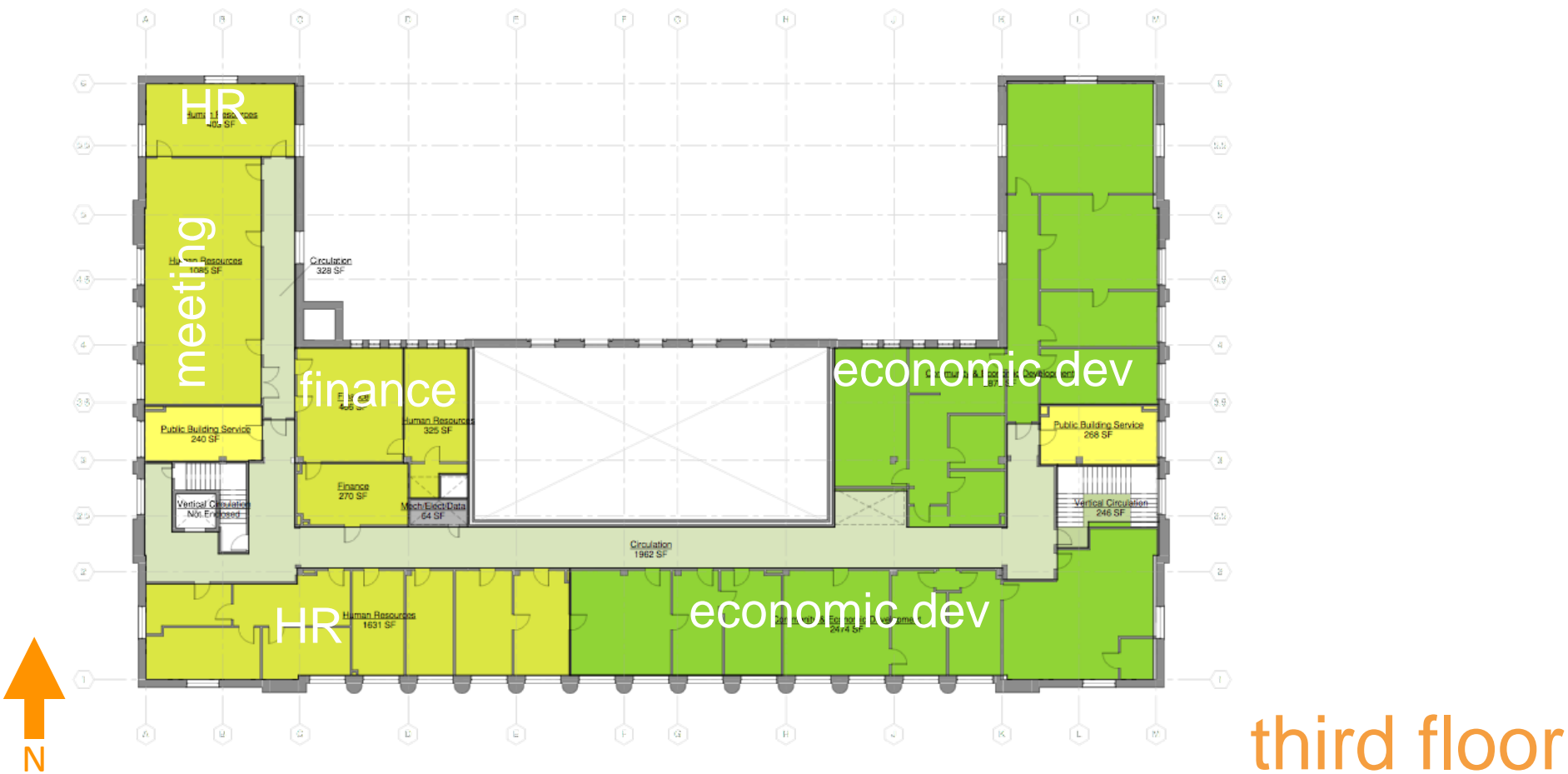
first floor

existing

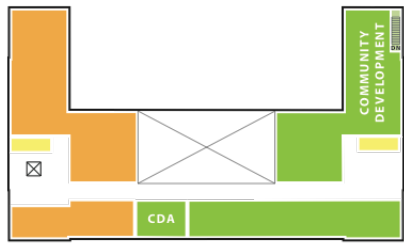




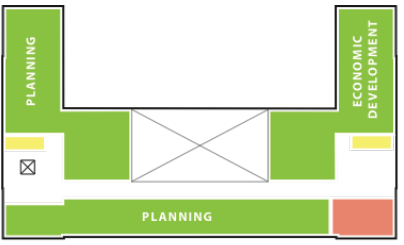
existing



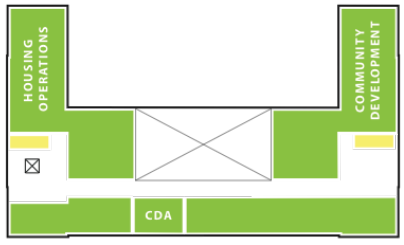
# Option D Test Fit Studies



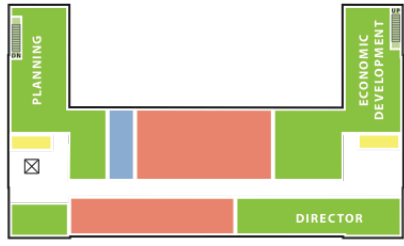
THIRD FLOOR



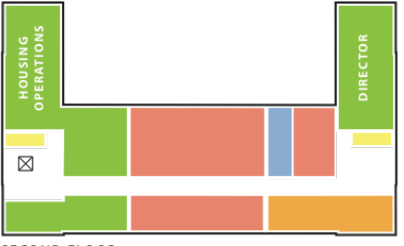
THIRD FLOOR



THIRD FLOOR



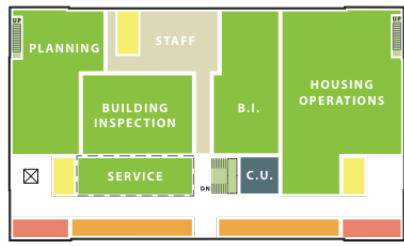
SECOND FLOOR



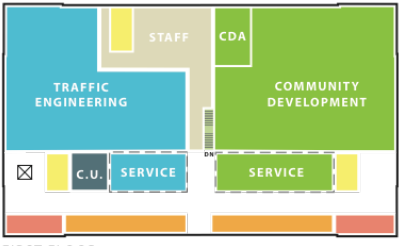
SECOND FLOOR



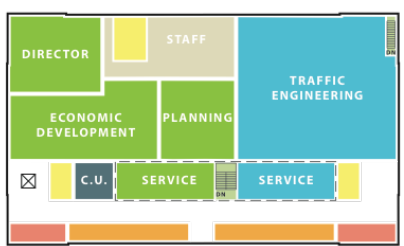
SECOND FLOOR



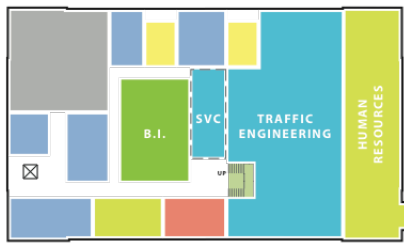
FIRST FLOOR



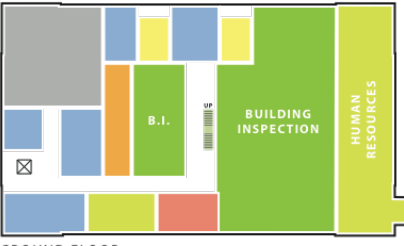
FIRST FLOOR



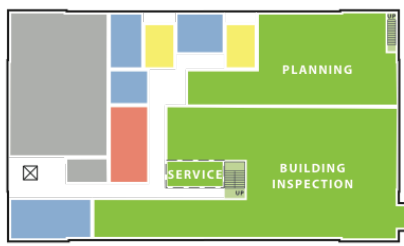
FIRST FLOOR



GROUND FLOOR



GROUND FLOOR



GROUND FLOOR



D1

D2

D3

# D4 Schematic Layout



ground floor - option c

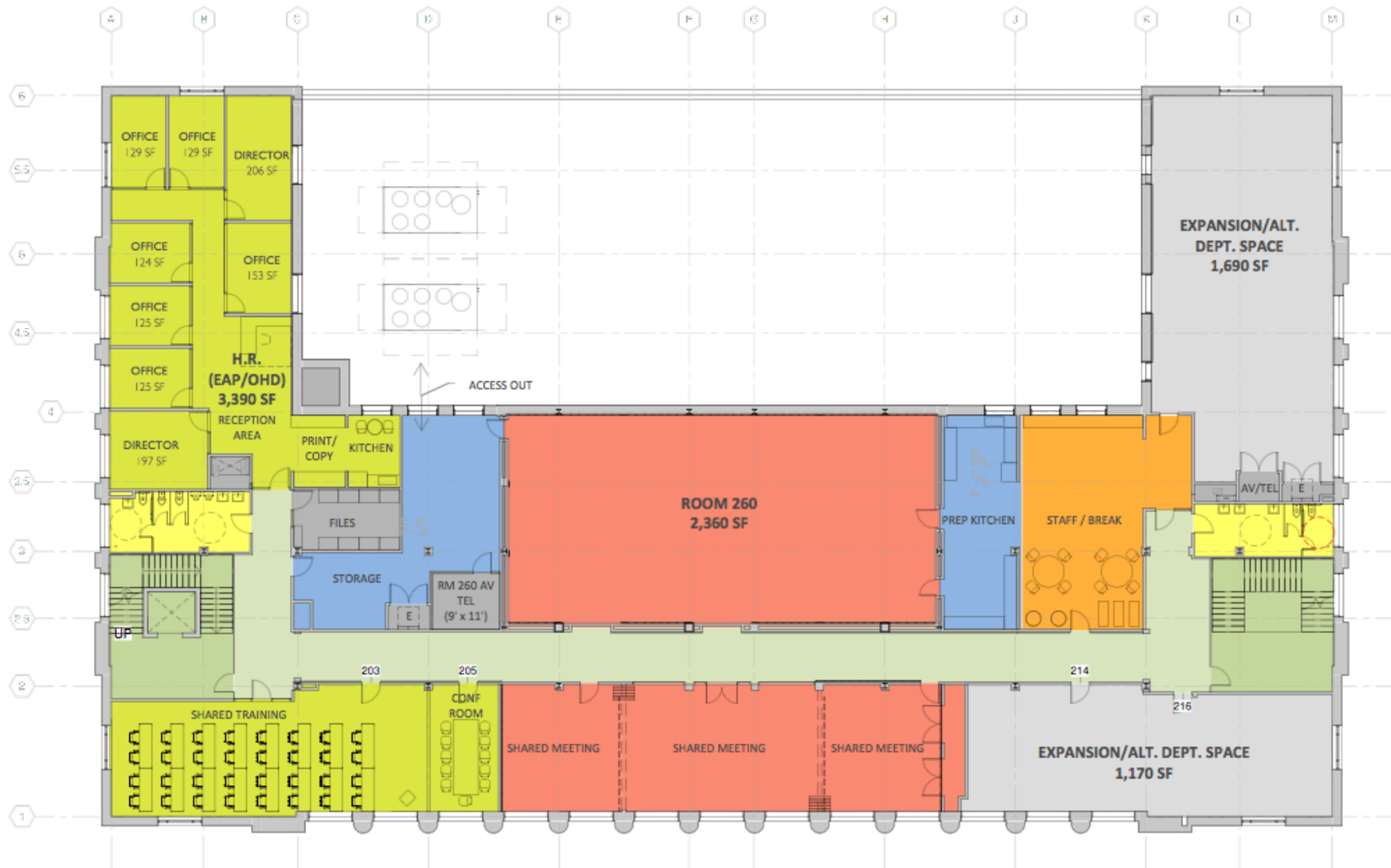


# D4 Schematic Layout



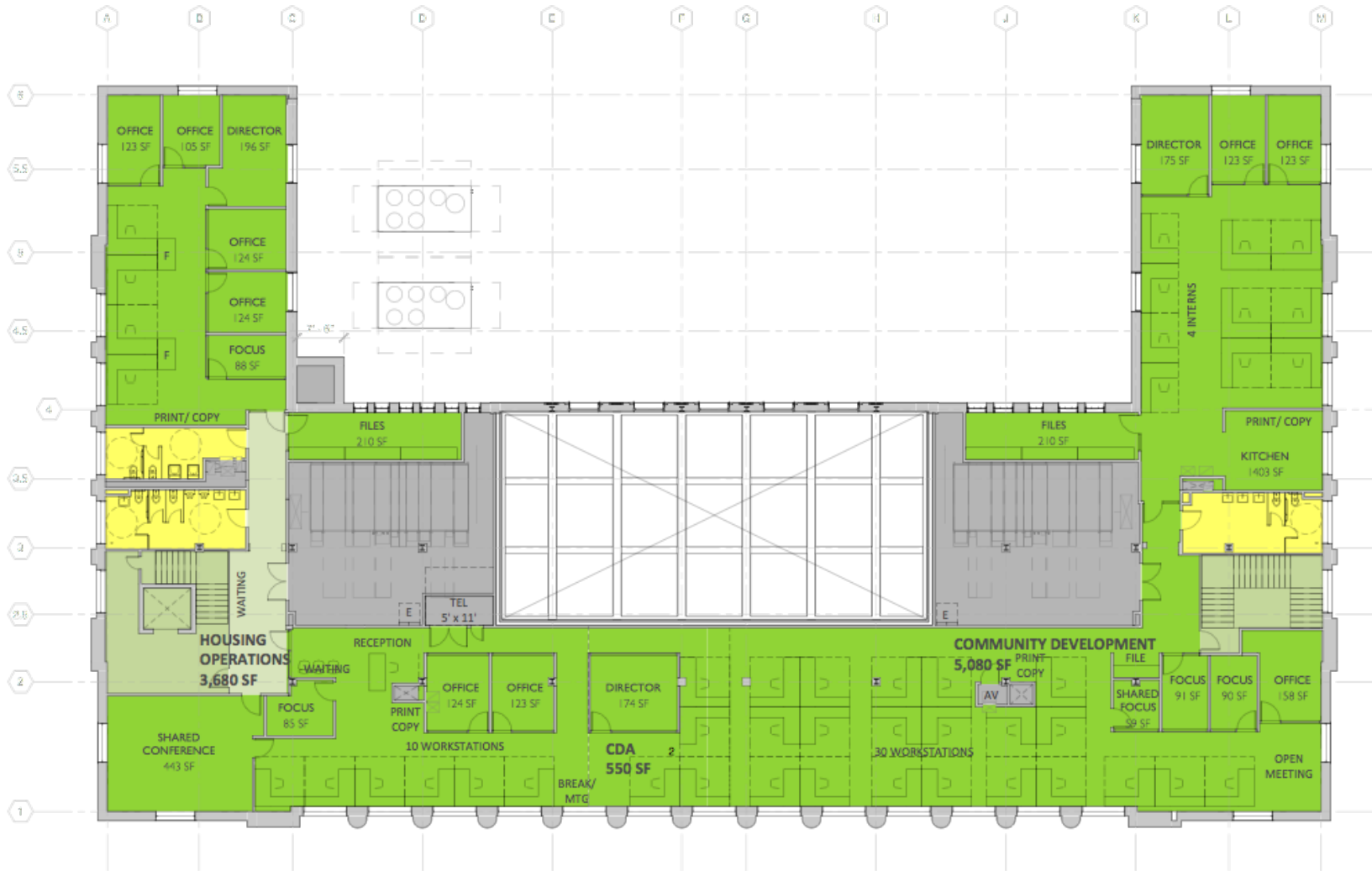
first floor - option c

# D4 Schematic Layout



second floor

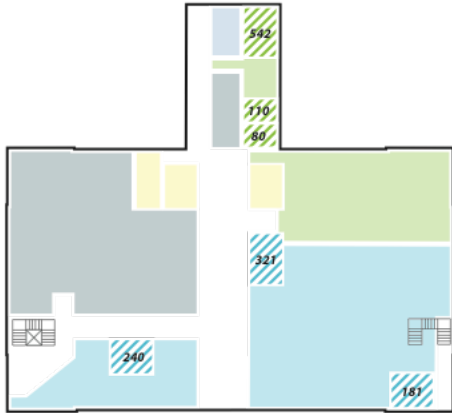
# D4 Schematic Layout



third floor



# D4 meeting rooms statistics



- (6) 542 sf
- (7) 110 sf
- (8) 80 sf
- (9) 321 sf
- (10) 240 sf
- (11) 181 sf

$$1474 \text{ sf} \times 1.1 \times 1.25 = 2027 \text{ gsf}$$

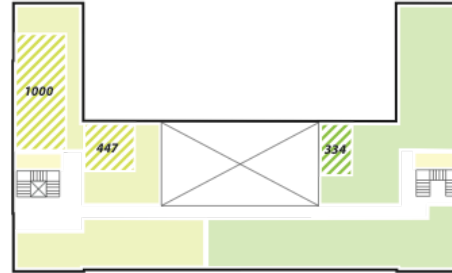


- (12) 564 sf
- (13) 360 sf
- (14) 140 sf
- (15) 180 sf
- (16) 225 sf
- (17) 225 sf
- (18) 362 sf

$$2056 \text{ sf} \times 1.1 \times 1.25 = 2827 \text{ gsf}$$

18 meeting spaces

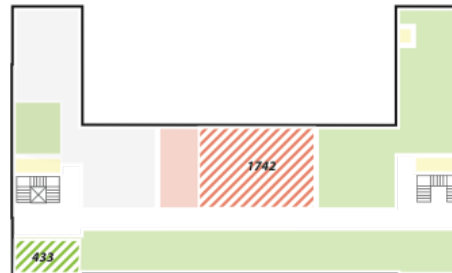
**total = 10 293 gsf**



## existing meeting spaces

- (1) 1000 sf
- (2) 447 sf
- (3) 334 sf

$$1781 \text{ sf} \times 1.1 \times 1.25 = 2449 \text{ gsf}$$



- (4) 1742 sf
- (5) 433 sf

$$2175 \text{ sf} \times 1.1 \times 1.25 = 2990 \text{ gsf}$$

existing meeting spaces

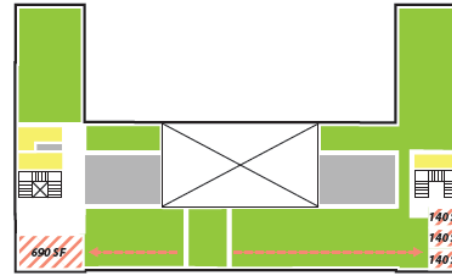


# D4 meeting rooms statistics



FIRST FLOOR

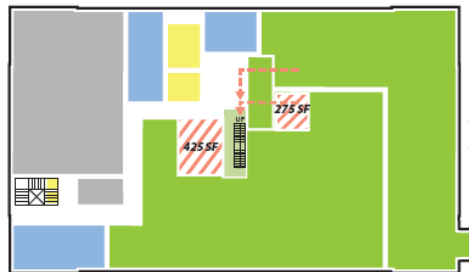
<u>available:</u>		
(5) 200 sf		6 person
(6) 200 sf		6 person
(6) 750 sf:	traffic + b.i. + planning	20 person
(7) 750 sf:	traffic + b.i. + planning	20 person
<u>dept shared:</u>		
(8) 410 sf:	director + econ dev.	12 person
(9) 275 sf:	econ dev.	8 person



THIRD FLOOR

## shared meeting spaces

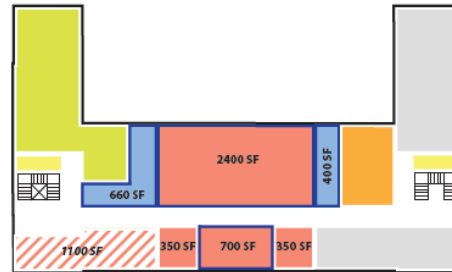
<u>dept shared:</u>		
(1) 690 sf:	housing + CDA	20 person
(2) 140 sf:	CDD + CDA	4 person
(3) 140 sf:	CDD	4 person
(4) 140 sf:	CDD	4 person



GROUND FLOOR

<u>dept shared:</u>		
(10) 425 sf:	b.i.	10 person
(11) 275 sf:	b.i.	4 person

9 shared meeting spaces in depts	3520 gsf	18 spaces = 9 275 gsf
2 shared meeting spaces claimed	1500 gsf	
6 shared meeting spaces available	4200 gsf	



SECOND FLOOR

## k meeting spaces:

(1) 2400 sf	room 260	varies
(2) 700 sf	prefunction	20 person
1060 sf	storage	
<u>available:</u>		
(3) 350 sf		10 person
(4) 350 sf		10 person
<u>dept shared:</u>		
(5) 1100sf:	HR	30 person



proposed meeting spaces

# breakout spaces





# small meeting



# small meeting





# large flexible meeting room





# Questions?

