



a new development for
D-BAT - Town Centre Lot 1
540 NE Town Centre Drive, Lee's Summit, Missouri

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project description:

New pre-engineered metal building for indoor batting cages with support office, retail, and party room.

submittal dates:

sitework: fall 2022
building envelope: fall 2022
occupancy: spring 2023
estimated duration: 9 months

schedule indications are estimated and shall be the responsibility of the contractor.

const. schedule

PDP & Rezoning submittal: approved January 2022
planning approval: pending approval
permit submittal: May 2022
permit approval: approved

project synopsis:

governing municipality: Lee's Summit, Missouri
governing code:
2018 International Building Code
2018 International Plumbing Code
2018 International Mechanical Code
2018 International Fuel Gas Code
2018 International Residential Code
2018 International Fire Code
2017 National Electrical Code
ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
Lee's Summit Municipal Code

zoning: PI

construction: IIB, pemb

stories: one + mezzanine

building height: 27'-0" max.

fire suppression: yes

bldg footprint: 19,800 s.f.

occupancy group: A-3 (indoor sports) with B+M (office mercantile accessory)

occupant load: 213
first floor accessory spaces: 44
mezzanine: 73
batting cages: 96

*reference code plan and code review

sheet index:

A0.0 cover sheet
A0.1 code review, code plan, details

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E5 site lighting plan

owner:

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PO Box 1059
Lee's Summit, MO 64063
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structural engineer:

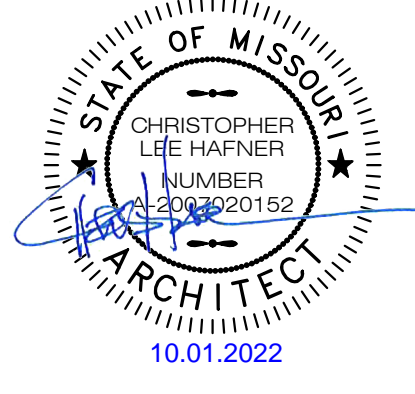
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code review

governing municipality: Lee's Summit, Missouri
governing code:
2018 International Building Code
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2017 National Electrical Code
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Lee's Summit Municipal Code

construction: 1 story
stories: one
building height: 27'-0" max
fire suppression: yes
total bldg. area: 19,421 (19,421 sq ft)
allowable area A-3: 22,500 sq ft per floor with frontage increase = 94,000 sq ft with frontage increase

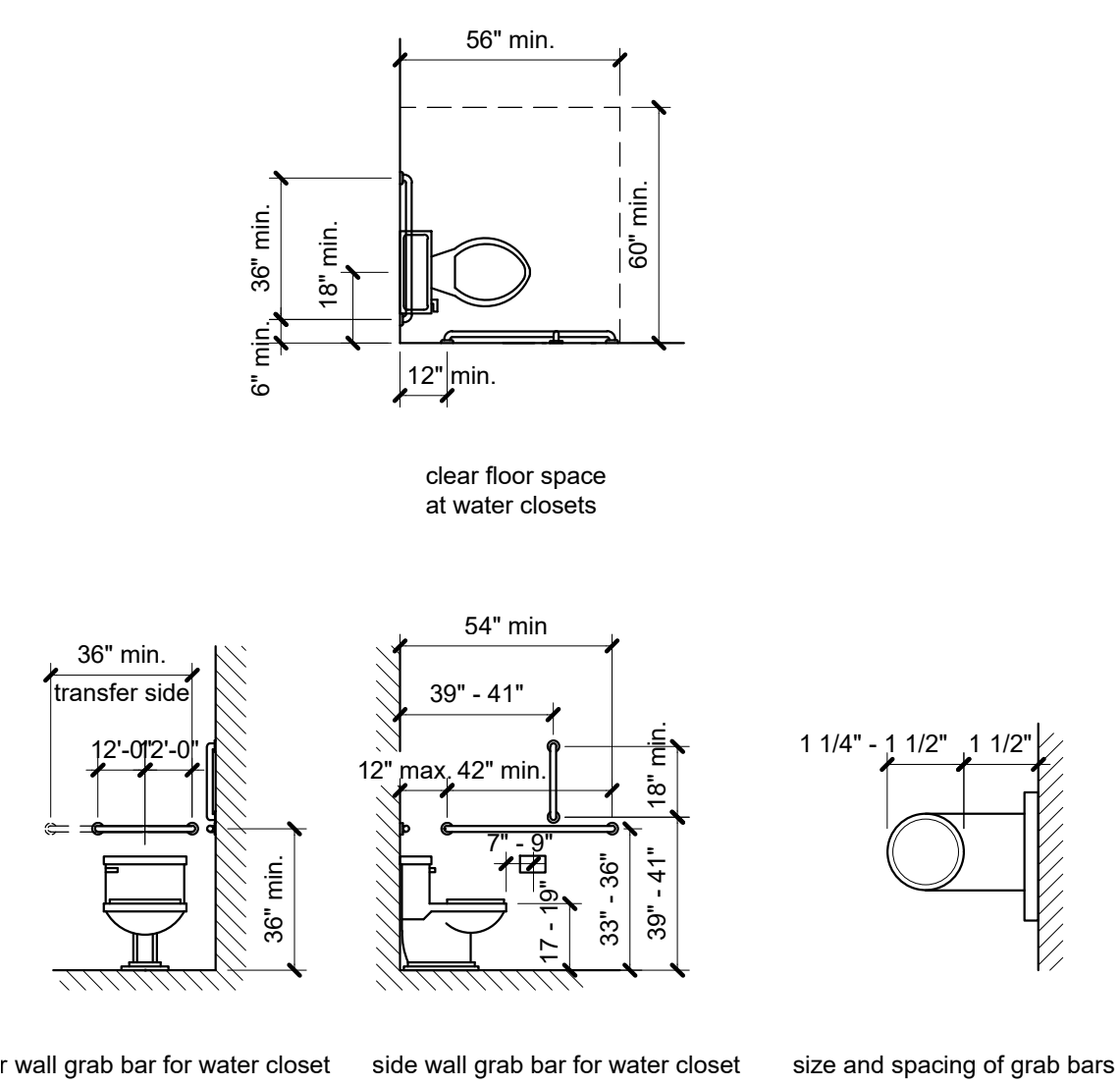
occupancy group: A (indoor sports) with B, M (office mercantile accessory)

room	sq. ft.	load factor	occupants
first floor accessory spaces:			
shop	1,112	60	18.5
office	205	150	1.4
storage	49	300	0.2
parent lounge	363	15	24.2
jan. clo.	40	300	0.1
batting areas:			
batting cages: (2 per cage, 15 cages total)			30
batting cage seating: (per seat)			66
Total:			149
restroom calcs:			
building occ.: A	water closets	lavatories	drinking fountain
	factor male female	factor male factor female	factor
required:	1/75 1.4 2.7	1/200 0.5 1/150 0.7	1/500 0.1
provided:	2+ 3	2 2	1 hi, 1 low

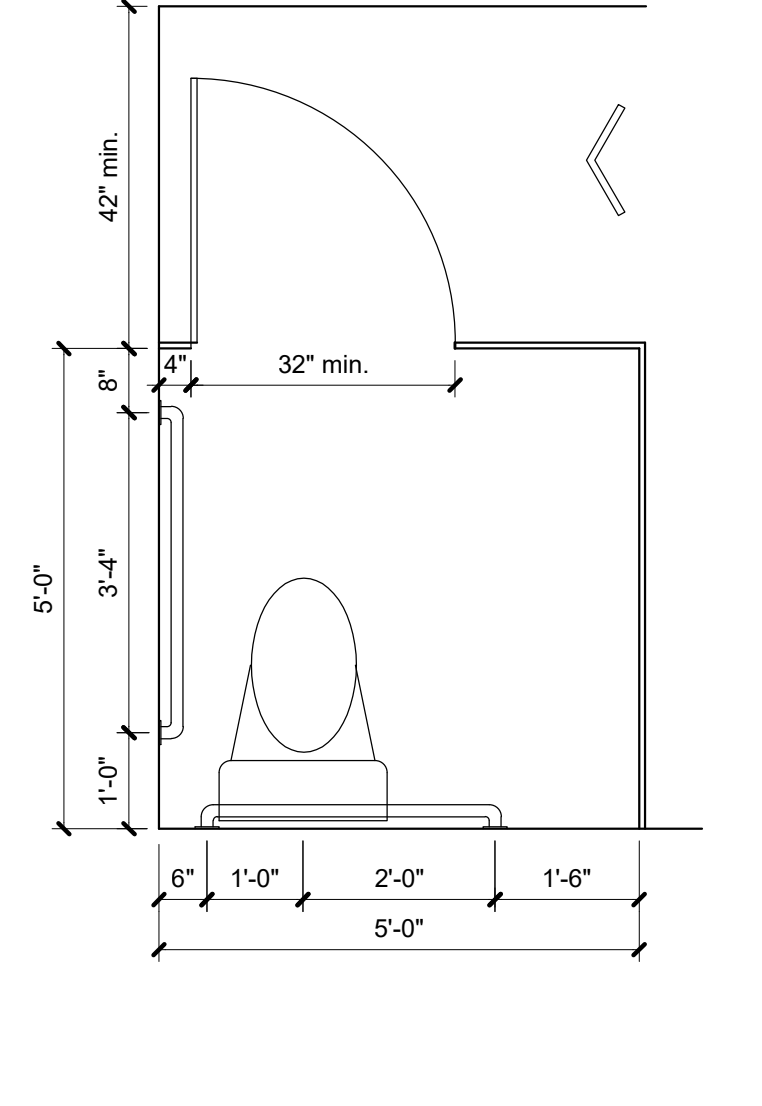
Minimum Corridor Width = 44"
Max. Dead end = 20'
Exit access travel distance shall not exceed 300 feet for business occupancies.
Common path of egress shall not exceed 100 feet.

Item	Basis of Design	Color	Description
Baby Changing Station	Koala Kare KB300	White Granite 05	Horizontal surface mounted, polypropylene unit
Clothes Hook w/ bumper	Bobrick B-212	Matte finish	solid cast aluminum clothes hook with hard rubber bumper
18" Grab Bar	Bobrick B-6806.99 x 18	Stainless steel	1 1/2" diameter steel grab bar with peened gripping surface
36" Grab Bar	Bobrick B-6806.99 x 36	Stainless steel	1 1/2" diameter steel grab bar with peened gripping surface
42" Grab Bar	Bobrick B-6806.99 x 42	Stainless steel	1 1/2" diameter steel grab bar with peened gripping surface
Mirror	Bobrick B-2908 2436	N/A	24" x 36" Tempered glass welded-frame mirror
Mop & Broom Holder	Bobrick B-239 x 34	Satin finish stainless steel	
Paper Towel	Bobrick B-2620	Satin finish stainless steel	Surface mounted paper towel dispenser; door has knob-latch and piano-hinge.
Sanitary Napkin Disposal	Bobrick B-270	Satin finish stainless steel	Surface mounted sanitary napkin disposal; secure with stain. steel piano-hinge.
Soap Dispenser			Wall mounted automated touchless soap & sanitizer dispenser
Toilet Compartment (Steel) Urinal Screens	Bradley Global Industrial Steel	Baked Enamel	Floor mounted, overhead braced single steel 1" thick
Toilet Tissue Dispenser	Bobrick B-2740	Satin finish cast aluminum	Surface mounted double roll toilet paper dispenser; no controlled delivery
Trash / Waste Receptacle	Bobrick B-9279	Satin finish stainless steel	Surface mounted, fully welded stainless steel waste receptacle with rigid molded plastic leakproof liner.

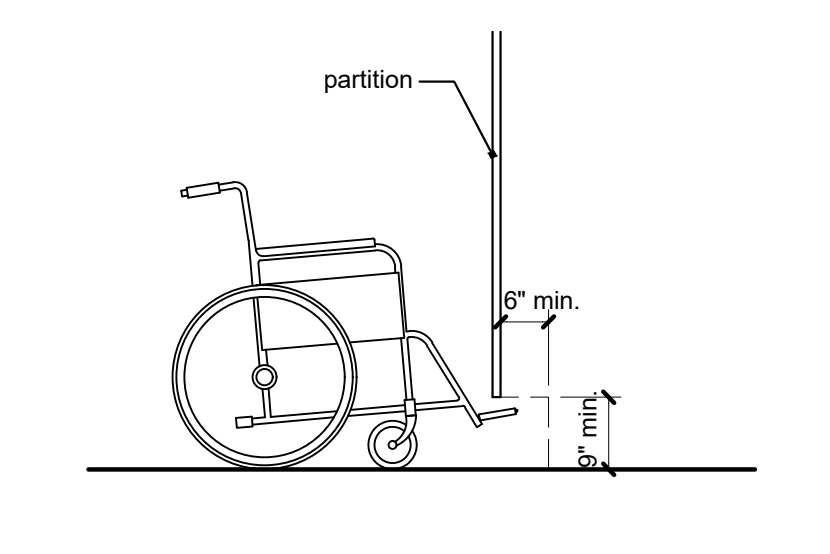
Contractor Note: Basis of design listed above, substitutions allowed per tenant/ownership approval.



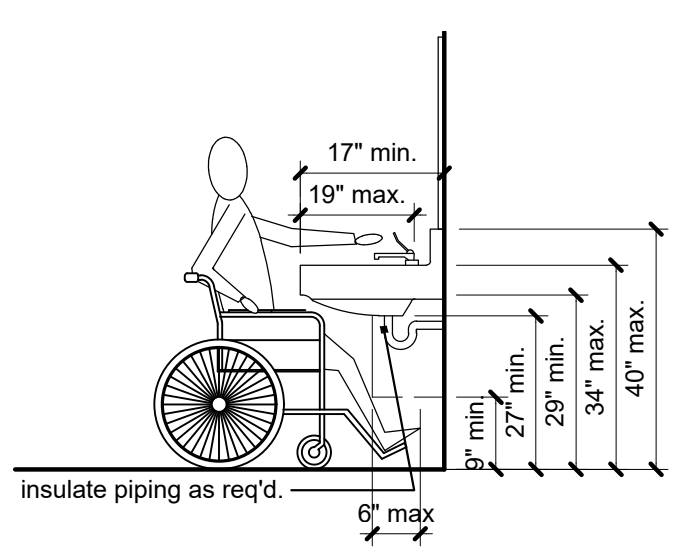
2 ADA grab bars
scale: 1/4" = 1'-0"



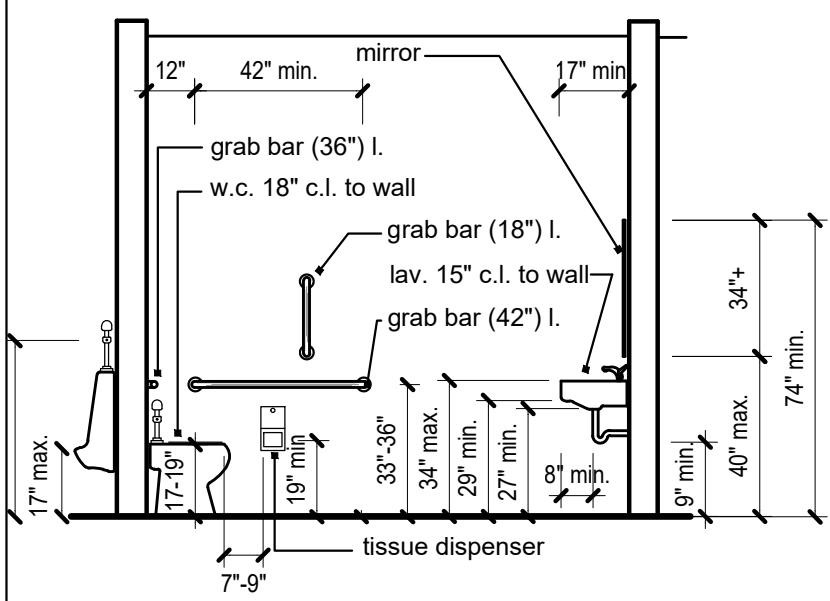
1 ADA r.r. stall, typ.
scale: 1/4" = 1'-0"



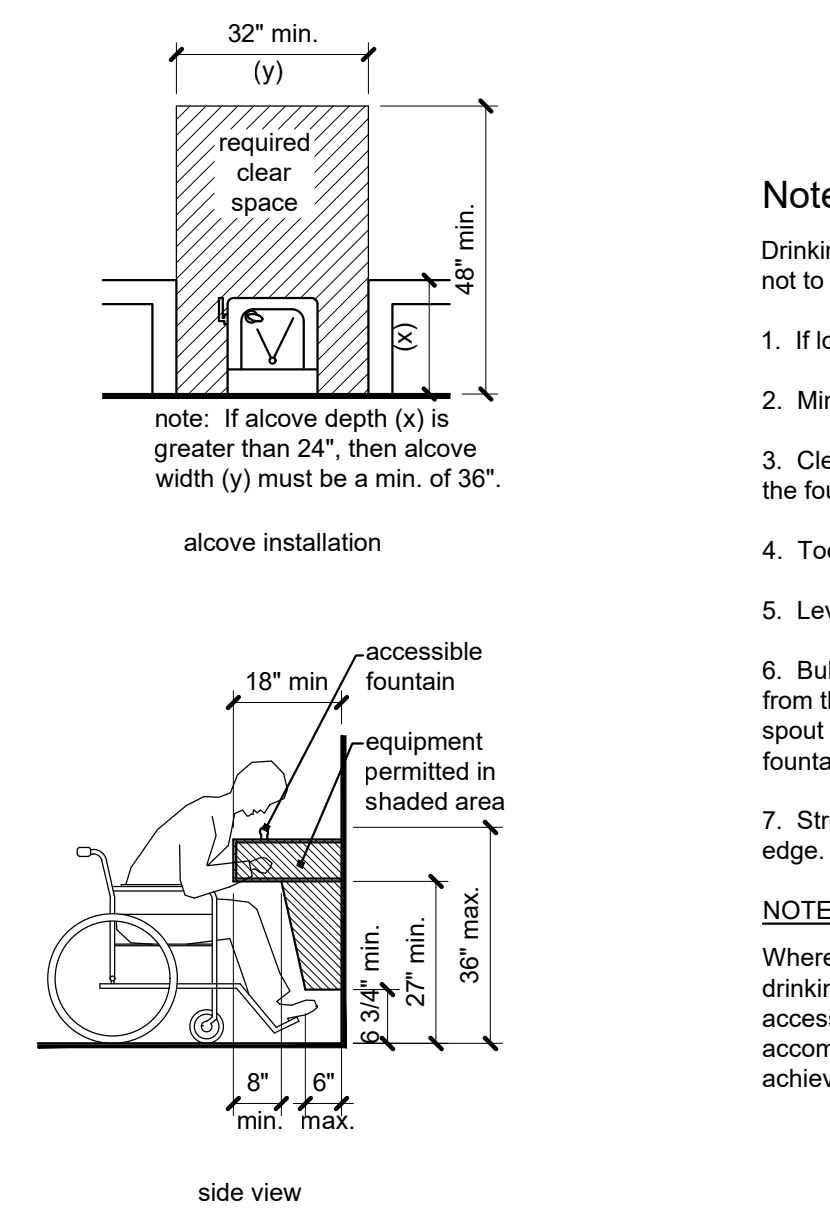
8 partition toe clearance
scale: 1/2" = 1'-0"



7 sink clearance
scale: 1/2" = 1'-0"

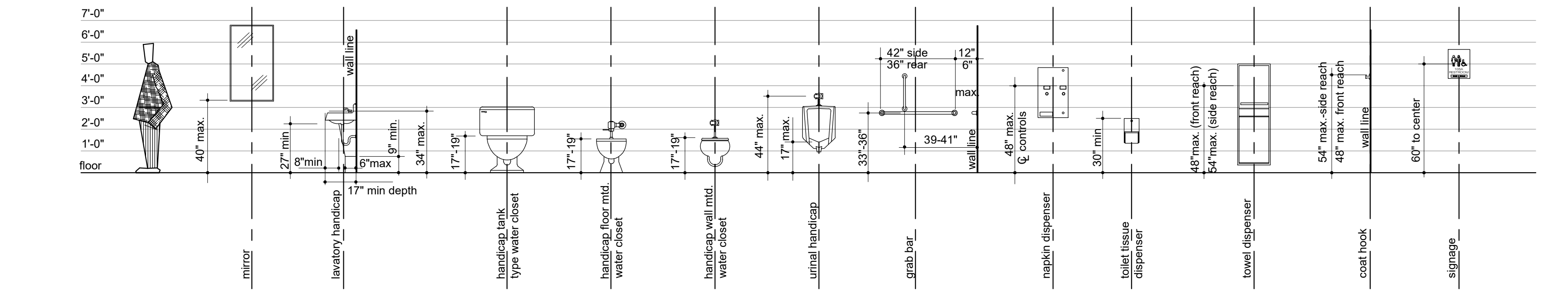
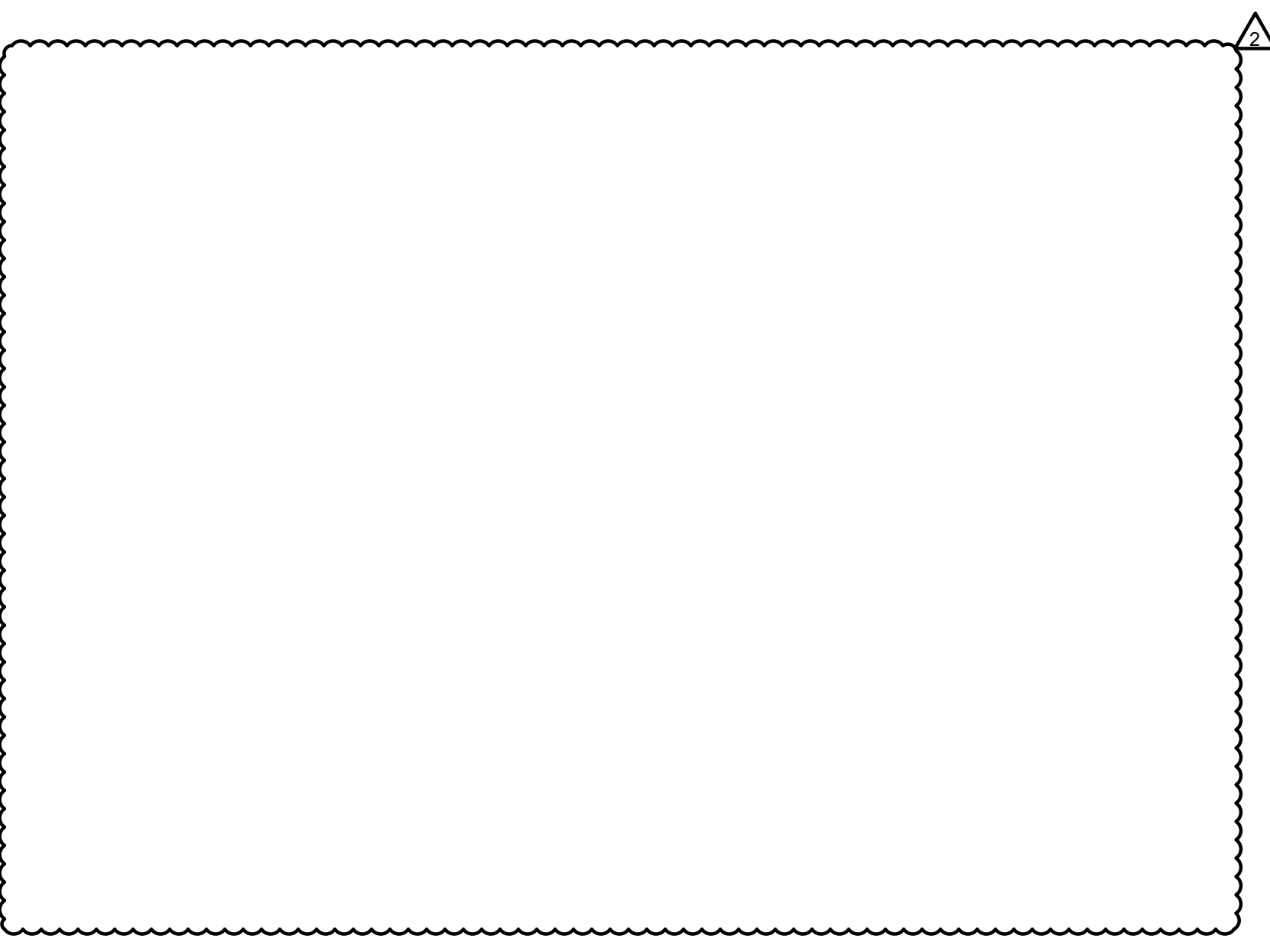


6 ADA r.r. standards
scale: 1/4" = 1'-0"

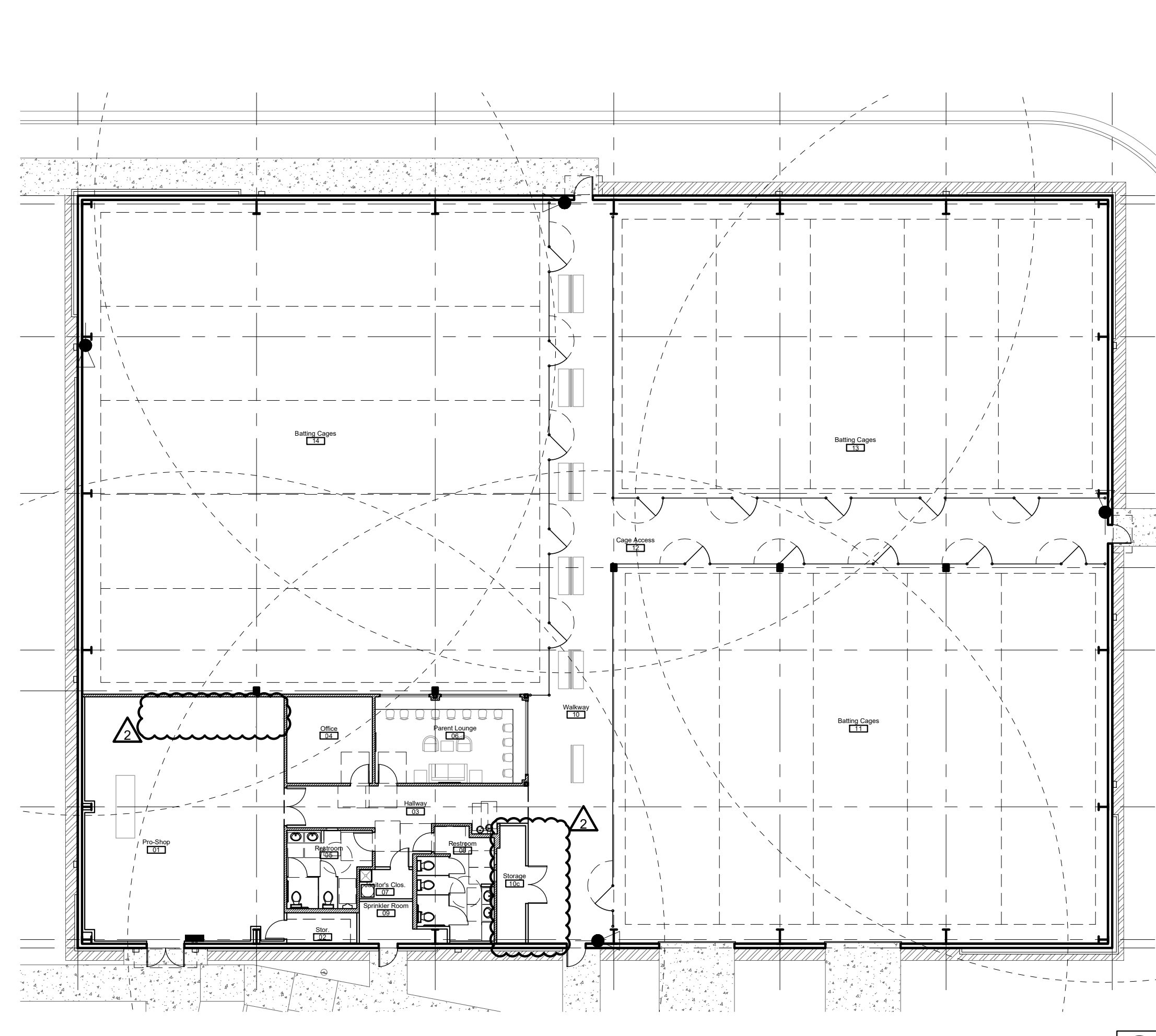


Notes:
Drinking fountains shall be located completely within alcoves or positioned so as not to encroach into pedestrian ways.
1. If located in an alcove, the alcove is not less than 32" wide x 18" deep.
2. Minimum depth of the fountain is 18".
3. Clear and unobstructed knee space a minimum of 27" high by 8" deep under the fountain (measured from front edge).
4. Toe clearance a minimum of 9" high by 17" deep.
5. Lever or push bar type control is located 6" maximum from front edge.
6. Bubblers outlet is located 6" maximum from front edge and 36" maximum height from the floor. ** (on an accessible drinking fountain with a round or oval bowl, the spout must be positioned so as the flow of water is within 3" of the front edge of the fountain).
7. Stream from bubbler is a minimum of 4" high and substantially parallel to front edge.
NOTE:
Where only one drinking fountain area is provided on a floor there shall be a drinking fountain which is accessible to individuals who use wheelchairs and one accessible to those who have difficulty bending or stooping. This can be accommodated by the use of "hi-lo" fountains, or by such other means as would achieve the required accessibility for each group on each floor.

10 drinking fountain notes
scale: 1/2" = 1'-0"



12 Fixture Mounting Heights
scale: 1/4" = 1'-0"

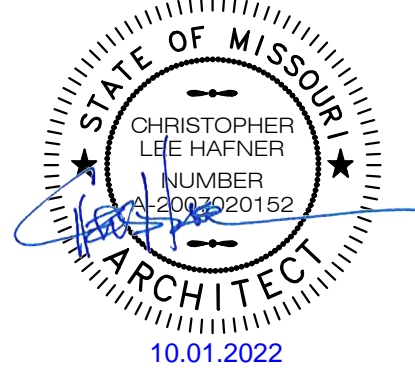


11 First Floor Code Plan
scale: 1/8" = 1'-0"

a new development for
D-BAT - Town Centre Lot 1
540 NE Town Centre Drive
Lee's Summit, Missouri

date 05.19.2022
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checked by DAE
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10.13.2022 2

sheet number
A0.1
drawing type FDP & Permit
project number 20231



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project synopsis

Municipality: Lee's Summit, Missouri

Applicable Building Codes & Ordinances: 2018 International Building Code (IBC)
2018 International Plumbing Code (IPC)
2018 International Mechanical Code (IMC)
2018 International Fuel Gas Code (IFGC)
2018 International Fire Code (IFC)
2017 National Electrical Code (NEC)
ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
Lee's Summit Unified Development Ordinance (UDO)

Project Address: 540 NE Town Centre Drive
Lee's Summit, Missouri 64064

Property Owner: WHD Management LLC
PO Box 1059
Lee's Summit, MO 64063

Zoning: PI - Planned Industrial

Proposed Land Use: Limited Indoor Recreation

Building Setbacks:
Street 20 ft
Side Yard 10 ft
Rear Yard 20 ft

Landscaping Setbacks:
Street Frontage 20 ft

Height Requirements: N/A

Number of Dwelling Units: N/A

Special Conditions Met:
A commercial indoor and/or outdoor recreation facility or area shall be allowed provided the front entrance is 300 feet or greater distance from any residential district or use.

Adjacent Zoning (within 185'): CP-2, RP-4

Adjacent Land Use (within 185'): Commercial, Undeveloped, Residential, Government

Building Occupancy: A-3, Limited Indoor Recreation - Batting Cages

Pad Site A: 83,267 sq. ft. 1.91 ac.

Site Area
Pad Site A 20,130 sq. ft.

Floor Area Ratio - Maximim 1.0
Pad Site A 20,130 / 83,267 0.24

Pervious/Impervious Areas
Pad Site A 24,656 sq. ft. 30% pervious 58,611 sq. ft. 70% impervious

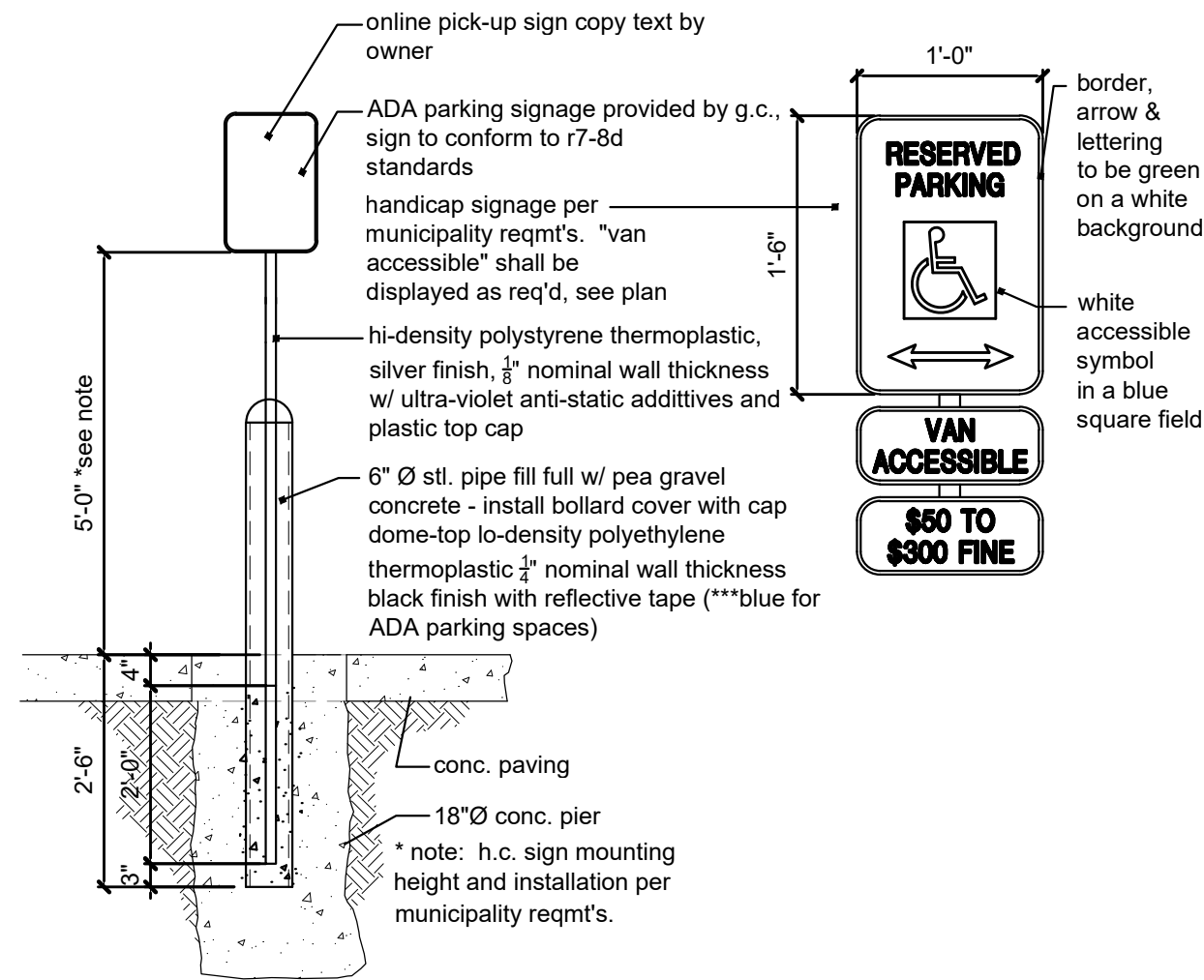
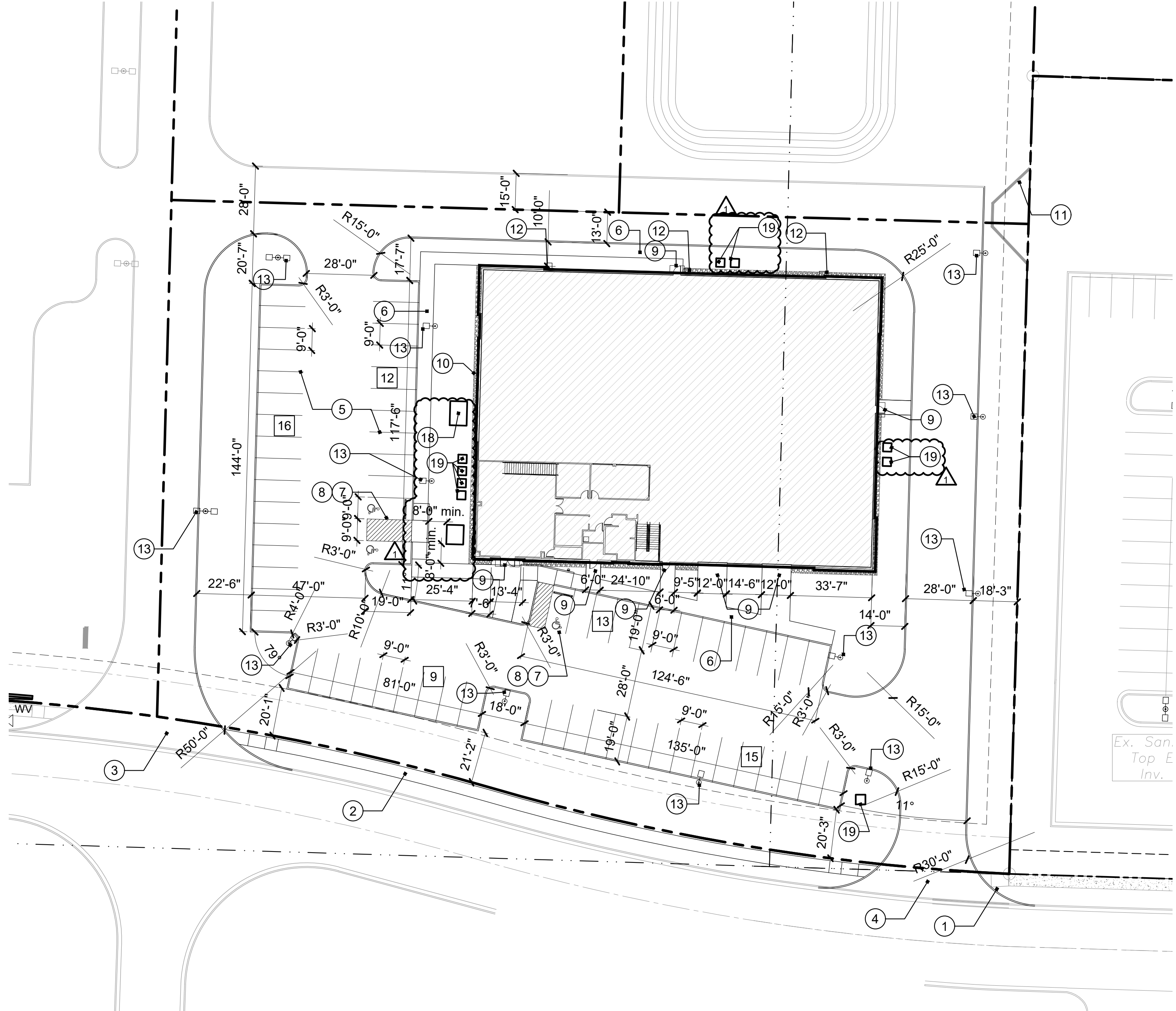
Parking
Pad Site A: Indoor Batting -
Required: 4 per 1,000 sq. ft. of office space 20
batting cages: determined by director -
total: 65

general notes

- All construction shall conform to the standards and specifications of Lee's Summit, Missouri.
- The general contractor shall contact all utility companies prior to the start of construction and verify the location and depth of any utilities that may be encountered during construction.
- The contractor shall field verify exist. surface & subsurface ground conditions prior to start of construction.
- Slopes shall maintain a maximum 3:1 slope.
- The contractor shall be responsible for obtaining all required permits, paying all fees, and otherwise complying with all applicable regulations governing the project.
- Place silt fence per civil for erosion control.
- Provide a temporary gravel access drive to prevent mud from being deposited onto the adjacent road.
- Prior to installing any structure on a public storm sewer, the contractor shall submit shop drawings for the structure(s). Installation shall not occur until drawings have been approved by public works.
- Prior to installing, constructing, or performing any work on the public storm sewer line (including connecting private drainage to the storm system) contact the city for inspection of the work. Contact must be made at least 48 hours prior to the start of work.
- Connections to the public storm sewer between structures will not be permitted.
- All exterior utility services shall be painted to match the primary building color.
- Signage shall comply with Lee's Summit Signage Ordinance.
- The property owner's association shall have ownership and maintenance responsibilities for the common area tract.
- Reference electrical plans for ground mounted equipment.

plan notes

- Furnish and install 5'-0" wide concrete sidewalk with broom finish per city of Lee's Summit standards to connect to existing sidewalk.
- Furnish and install 5'-0" wide concrete sidewalk with broom finish per city of Lee's Summit standards. Sidewalk shall be in the r.o.w. offset by 1'-0" from the property line.
- Furnish and install new curb cut per city of Lee's Summit standards. Align with access across the street.
- Furnish and install new curb cut per city of Lee's Summit standards.
- Furnish and install 4" wide white parking space striping.
- Furnish and install 6'-0" wide concrete sidewalk with broom finish per city of Lee's Summit standards.
- Furnish and install handicap parking spaces with striped access aisle per UDO requirements.
- Furnish and install handicap parking space bollard sign per UDO requirements.
- Furnish and install door stoop with turn down edge doveled into building foundations; coordinate with civil drawings.
- Furnish and install strip of clean rock at perimeter of building for drainage and maintenance if required by the geotechnical report.
- Location of block retaining wall; reference civil drawings.
- Furnish and install UDO compliant building mounted area light.
- Furnish and install UDO compliant pole mounted area light; maximum top of pole height to be 18'-0".
- Furnish and install ground mounted monument sign to meet ordinance requirements. Provide electrical to sign as required.
- Furnish and install wall mounted sign to meet ordinance requirements. Provide electrical as required.
- Property line.
- Building setback line.
- Furnish and install concrete pad for ground mounted RTU; provide landscape screening as required around the equipment.
- Furnish and install equipment pad.



2 bollard parking sign
scale: 1/2" = 1'-0"

1 Site Plan
scale: 1" = 30'-0" north

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project number 20231



general notes

- Double keyed locks are not permitted on any required or marked exit.
- Exit/emergency lighting are subject to an on site inspection.
- Provide min. 3 1/2" batt insulation between conditioned & unconditioned spaces
- Exit doors shall be operable from the inside without the use of a key or any special knowledge or effort
- Provide electrical outlets @ 15' a.f.f. to the lowest outlet per a.d.a.
- Egress illumination will be provided at an intensity of not less than 1 foot candle at floor level.
- Construction materials exposed within plenums shall be noncombustible or shall have flame spread rating of not more than 25 and a smoke development rating of not more than 50.
- All electrical outlets within 6' of any sink or water source to be GFCI protected.
- Mezzanine floor height is 12'-0" above first floor.
- Paint liner panels in batting cage areas PT-4 (green) up to 12'-0" a.f.f.
- Reference DBAT standards for painting patterns.

construction notes

1. Not used.
2. Merchandise display by others.
3. Verify point of sale location with owner. Coordinate stub up if required.
4. Furnish and install built-in bar height counter.
5. Furnish and install seamless interior windows.
6. Furnish and install Recessed knob box in stone. Verify final location with fire marshal.
7. Cage by others.
8. Provide access to overhead doors.
9. Benches by others.
10. Furniture by others.
11. Provide data and power at wall mounted TV location.
12. Netting by others.
13. Premanufactured awning above by PEMB manufacturer.
14. Decorative wall sconce.
15. Reference site and landscaping plans for perimeter rock.
16. Furnish and install millwork per details.
17. Furnish and install bracket mounted fire extinguisher, min. 5lb ABC.
18. Furnish and install semi-recessed ADA fire extinguisher cabinet (white) with min. 5lb ABC fire extinguisher.
19. Furnish and install metal guardrail at mezzanine viewing area; verify attachment to structure with structural engineer; railing must have supports/attachments a maximum of 5'-0" apart, and railing must meet loading requirements per the 2018 IBC. Railing selection must be a minimum of 42" above finish floor of the mezzanine - open space between railing parts must not allow a sphere of 4" or greater to pass through.
20. Furnish and install door stoops; reference structural.
21. Furnish and install prefabricated concrete pads for condensing units per mechanical drawings.
22. Provide concrete pad for ground mounted RTU as required, consult with structural.
23. Furnish and install ADA bathroom partitions.
24. Furnish and install lintel above door to support stone.

symbol legend:

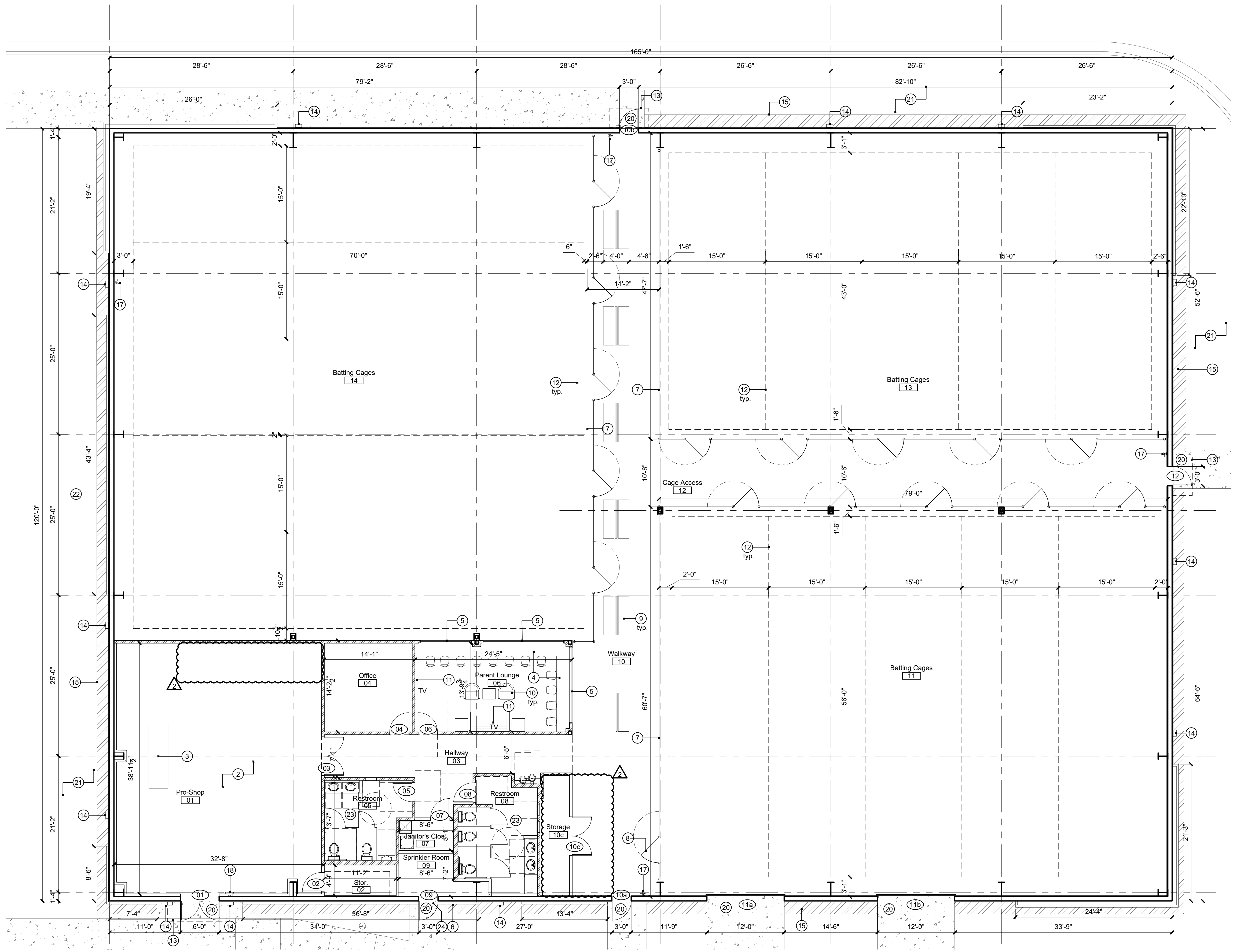
- door tag
- construction note
- partition type
- room name
- room tag
- elevation
- wall section
- enlarged detail

partition legend

- Insulated Interior Partition:
3-5/8" metal studs @ 16" o.c. to 6" above ceiling or to underside of decking with 5/8" gypsum board on both sides and 3-1/2" sound attenuation batt insulation. Stud gauge per supplier.
- Interior Partition:
3-5/8" metal studs @ 16" o.c. to 6" above ceiling or to underside of decking with 5/8" gypsum board on both sides. Stud gauge per supplier.
- *Utilize DensArmor Plus on plumbing walls

partition notes

- utilize 6" or 8" studs for plumbing walls
- walls with no ceiling shall extend up to underside of decking unless otherwise noted (reference reflected ceiling plan).
- walls with a lowered suspended ceiling should extend 6" above the ceiling height (reference reflected ceiling plan).
- interior wall height note: Utilize 3 5/8" metal studs @ 16" o.c. to an unbraced height of 13'-8", at heights up to 26'-0", utilize 6" 20 ga. studs @ 16" o.c. - adjust stud size as required for allowable L/240 deflection. Verify stud gauge with supplier.
- expansion joint note: Expansion joints shall be installed at a max. of 30'-0". Joints shall also be located to anticipate building movement, structural elements and substrate transition per elevations and wall sections.
- wet wall note: Utilize DensArmor Plus in all plumbing wet walls, walls receiving ceramic tile, and all walls adjacent to plumbing walls or where anticipated to be in contact with moisture.
- substrate: provide tile backerboard at any wall tile locations.
- blocking: Provide in wall blocking for all wall mounted items, including, but not limited to toilet accessories, plumbing fixtures, and hardware.
- maximum length of an unbraced wall shall be 8'-0".

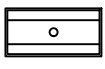




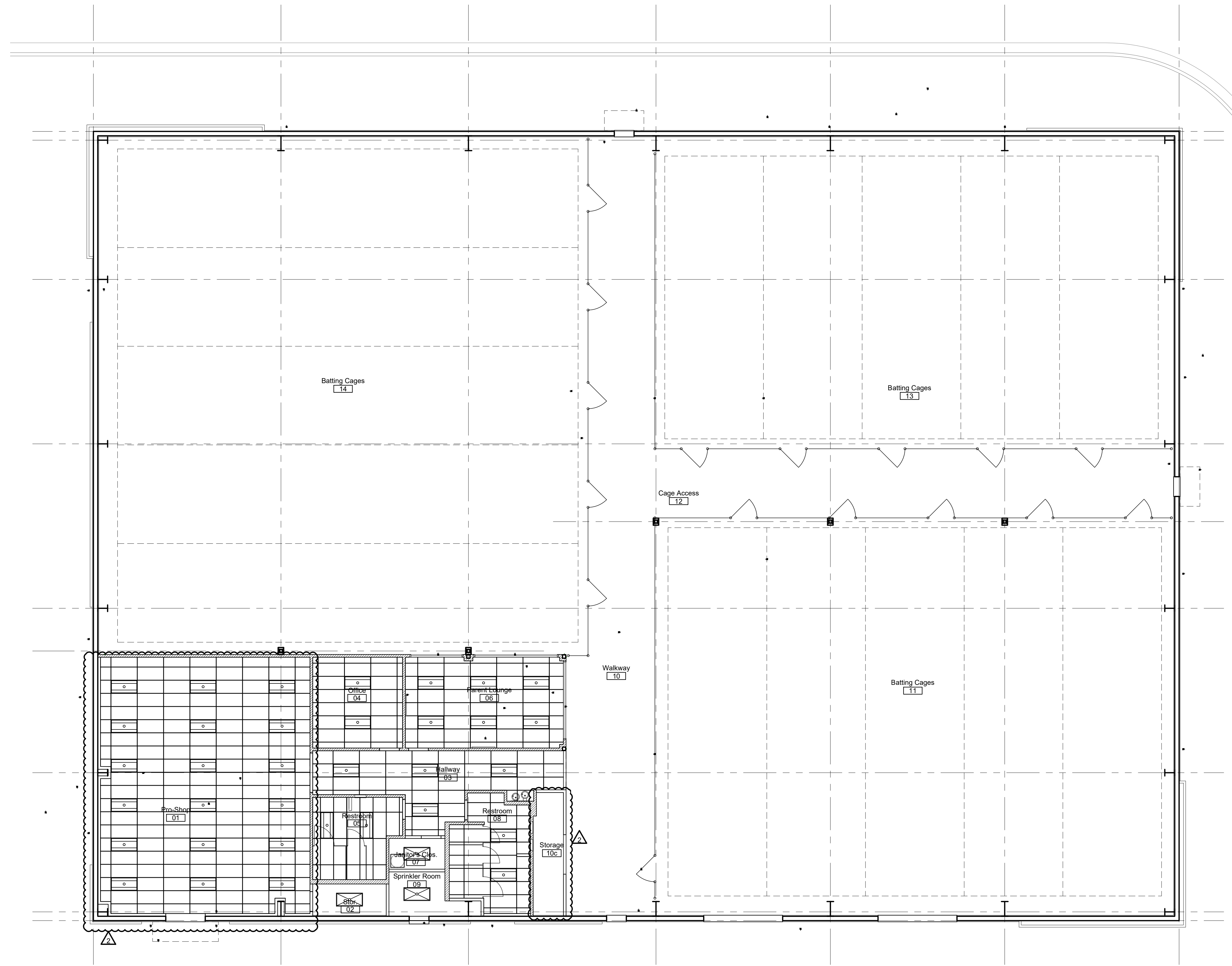


reflected ceiling notes #


- Paint exposed structure off-white in areas open to the public.
- Furnish and install 2x4 suspended ceiling with lighting per reflected ceiling plan.
- Exposed structure finish to remain as-is.
- Reference room finish schedule for ceiling heights
- all materials above suspended ceilings must be fire retardant

reflected ceiling legend

-  2x4 lay-in LED light fixture with direct/indirect lens for finished areas
-  2x4 LED utility light fixture for unfinished areas
-  CLG - 1: 2' x 4' x 3/4", with 15/16" Exposed Tee Grid System, color white

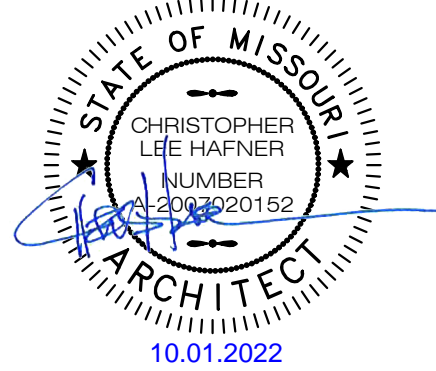


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A2.3
drawing type FDP & Permit
project number 20231

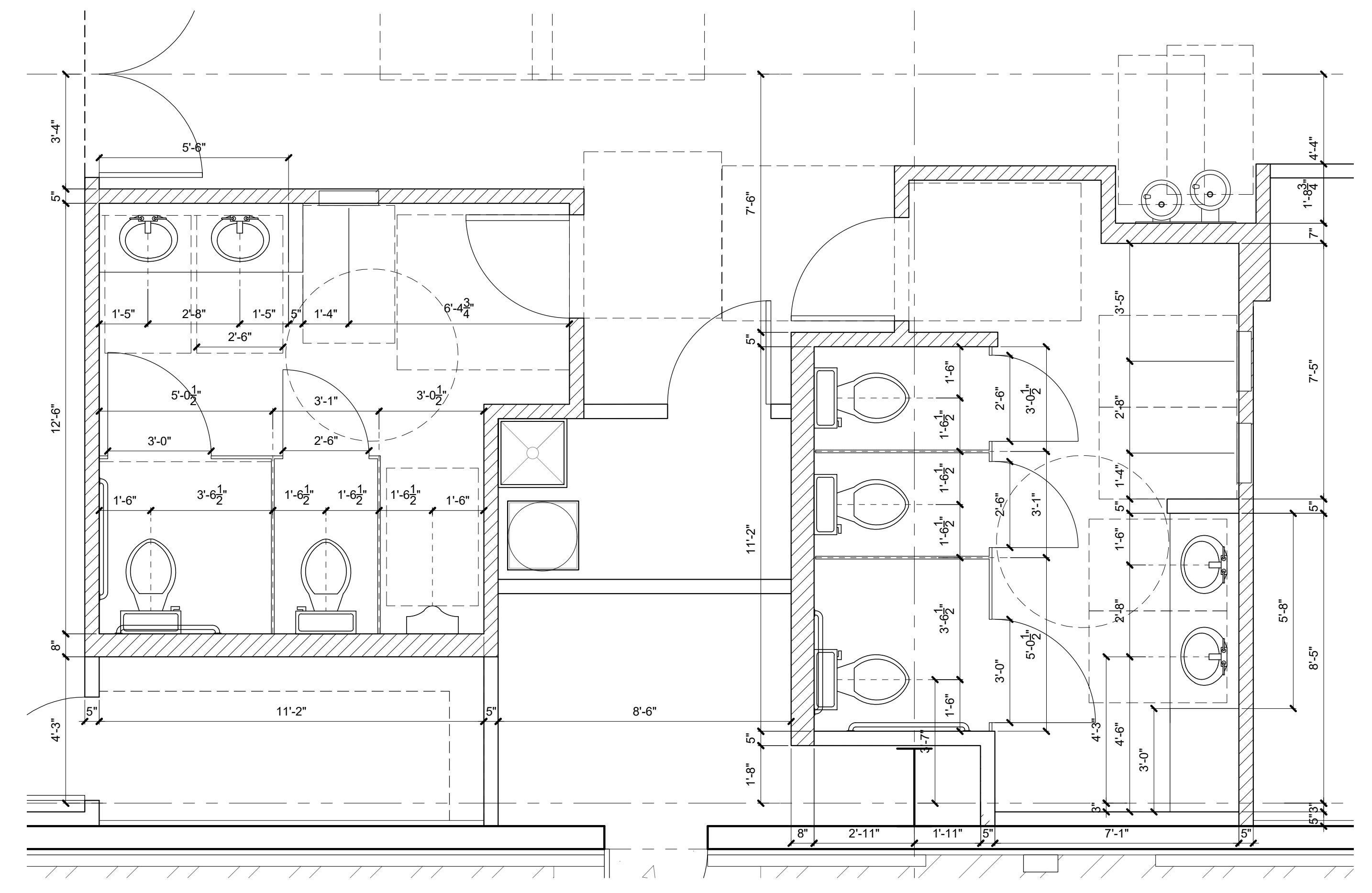
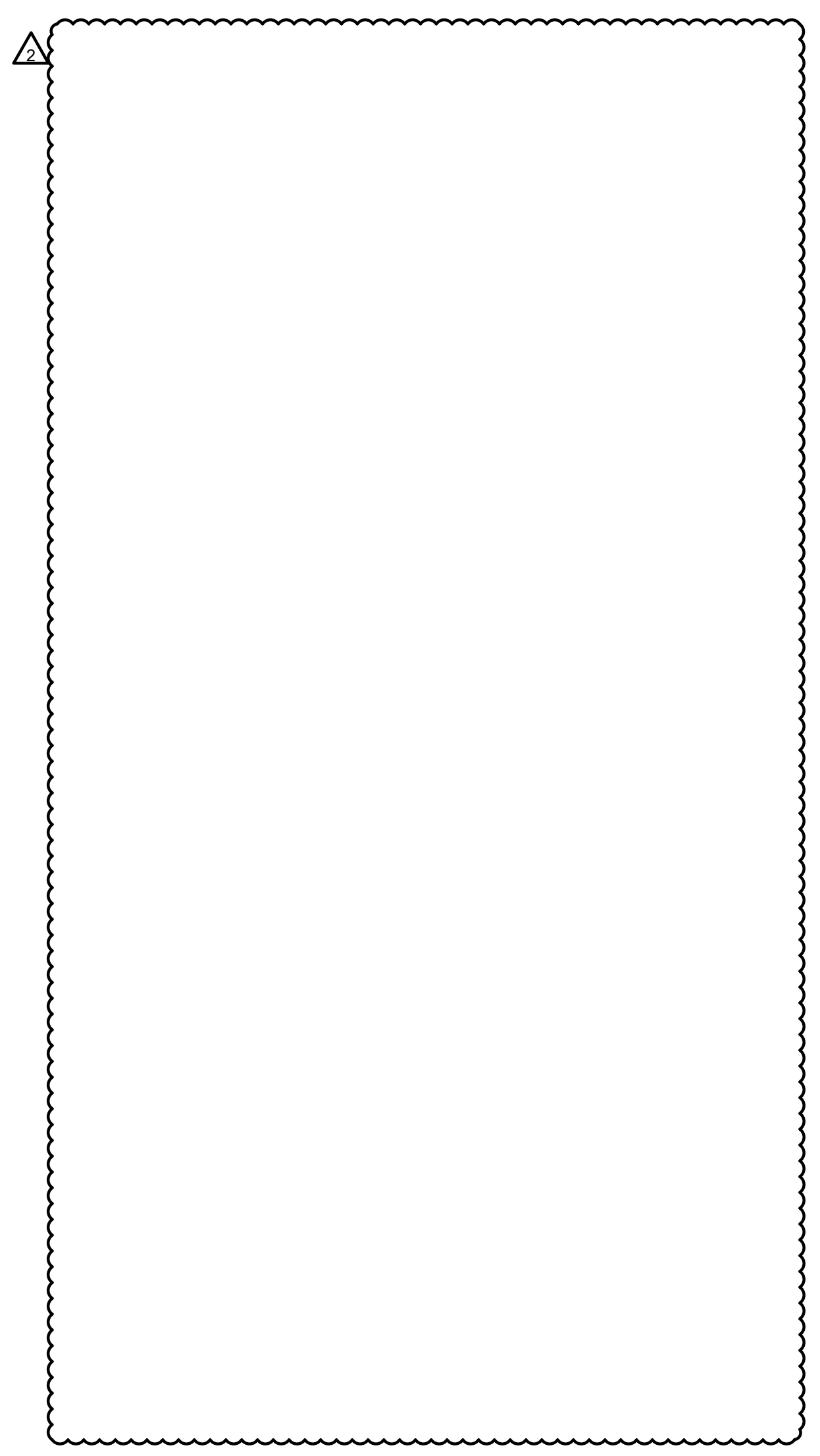
1 Reflected Ceiling Plan 
scale: 1/8" = 1'-0"



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date 05.19.2022
drawn by DAE
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revisions 10.13.2022 2

sheet number **A2.4**
drawing type FDP & Permit
project number 20231



1 Enlarged Restroom Plan
scale: 3/8" = 1'-0" north

general notes

- provide appropriate covers for flue penetrations - paint to match the building.
- furnish and install knob box; reference floor plan; verify final location with code official and fire department
- all building mounted equipment shall be painted to match the adjacent wall colors, including pipes, and panels; do not paint meters.
- furnish and install landscape screening for all building mounted equipment; reference MEP.
- material substitutes and changes MUST be approved by the City of Lee's Summit prior to purchase
- provide blocking and electrical at building mounted sign locations
- reference window elevation sheet
- reference door schedule and detail sheets
- all signage must be reviewed as part of a separate sign permit through the City of Lee's Summit
- stone shall align with seams in metal panels
- windows shall be centered with metal panels

exterior materials & finishes

Metal Panel
Panel 2 - textured metal panel per PEMB supplier, color Gray
Panel 3 - textured metal panel per PEMB supplier, color Off-White
Panel 1 - tenant accent color, textured metal panel per PEMB supplier, color Blue

flashing/trim
prefinished to match adjacent wall colors

fascia panels
prefinished panels per PEMB supplier, color Black

soffit panels
color to match building fascia

prefabricated metal awnings per PEMB supplier, color Black

Gutter & Downspout:
To match PEMB wall panel Gray - per supplier

Stone
manufactured stone, Versetta ledgerstone color

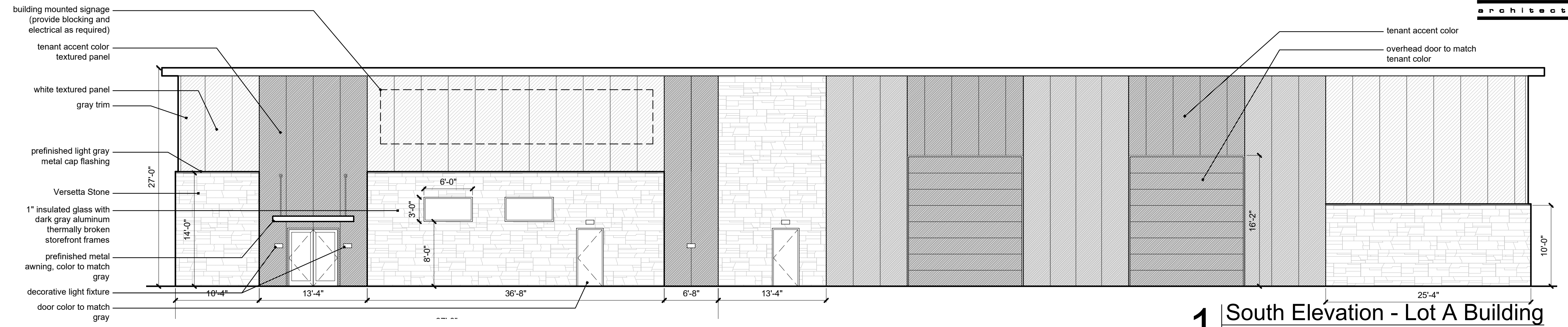
Windows
1" insulated low-e glass with argon fill in 2" thermally broken frames per PEMB supplier (caulk at perimeter inside and out); frames color Black

Storefront Door
1" insulated clear glass with thermally broken frames per PEMB supplier; frames color Black

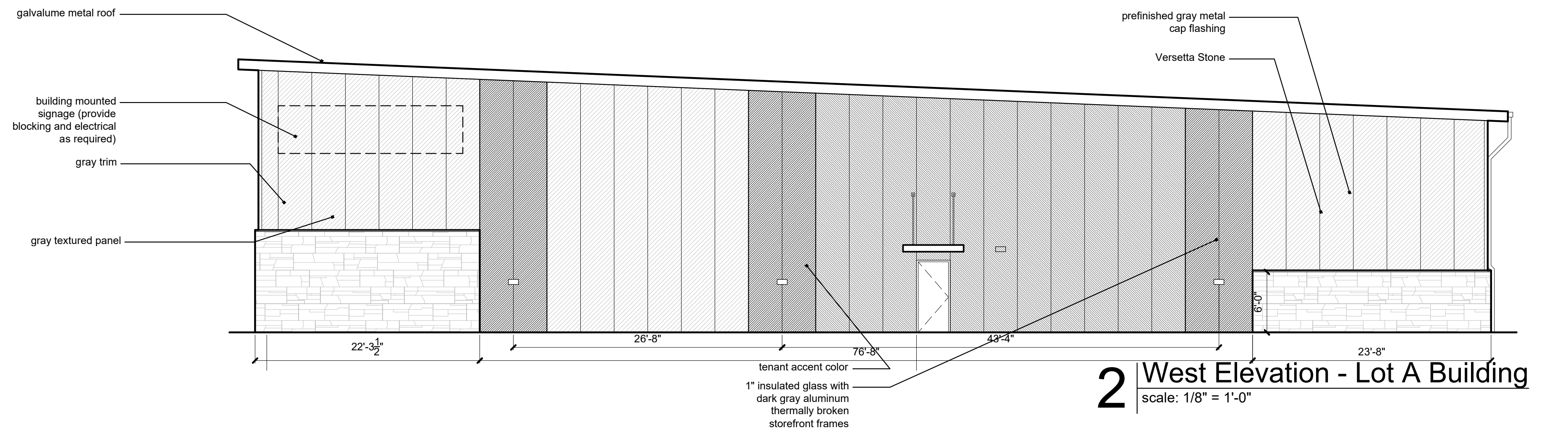
Overhead Doors
insulated manual overhead doors, painted to match tenant accent color per building elevations

Hollow Metal Doors
galvanized insulated hollow metal door and frame, painted to match adjacent wall color

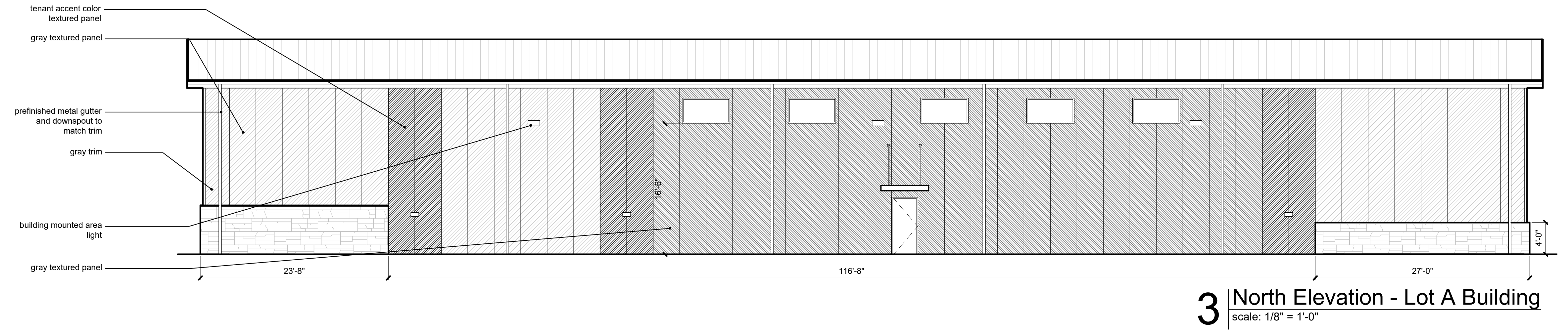
caulk - color to match adjacent wall colors



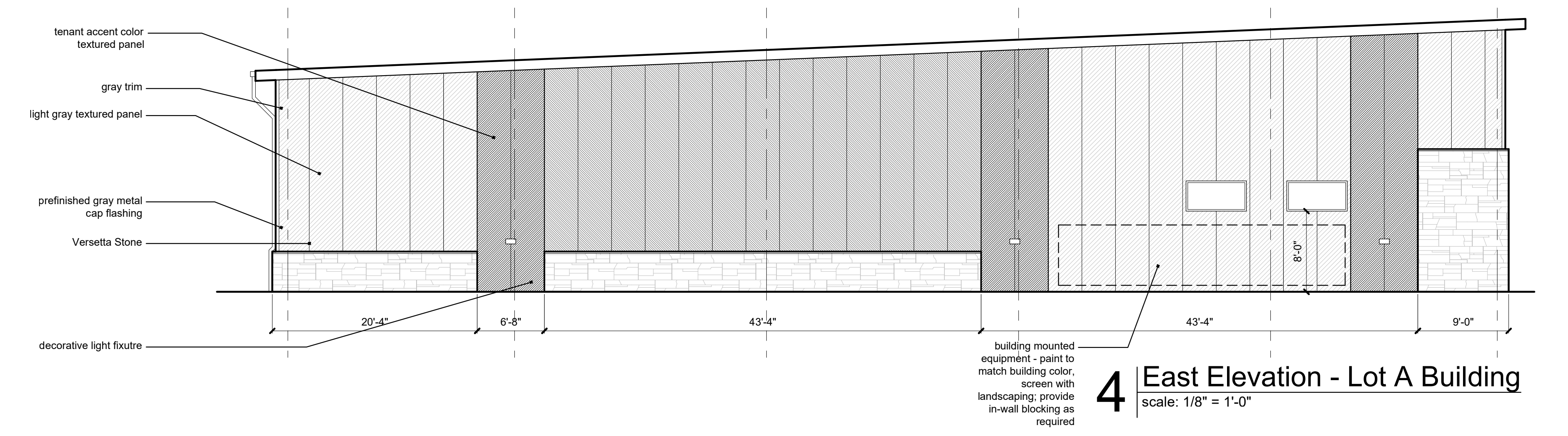
1 South Elevation - Lot A Building
scale: 1/8" = 1'-0"



2 West Elevation - Lot A Building
scale: 1/8" = 1'-0"



3 North Elevation - Lot A Building
scale: 1/8" = 1'-0"

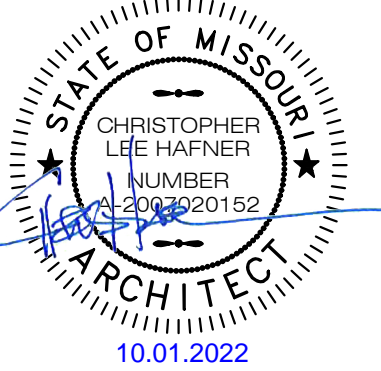


4 East Elevation - Lot A Building
scale: 1/8" = 1'-0"

a new development for
D-BAT - Town Centre Lot 1
540 NE Town Centre Drive
Lee's Summit, Missouri

date 05.19.2022
drawn by DAE
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revisions

sheet number
A3.1
drawing type FDP & Permit
project number 20231

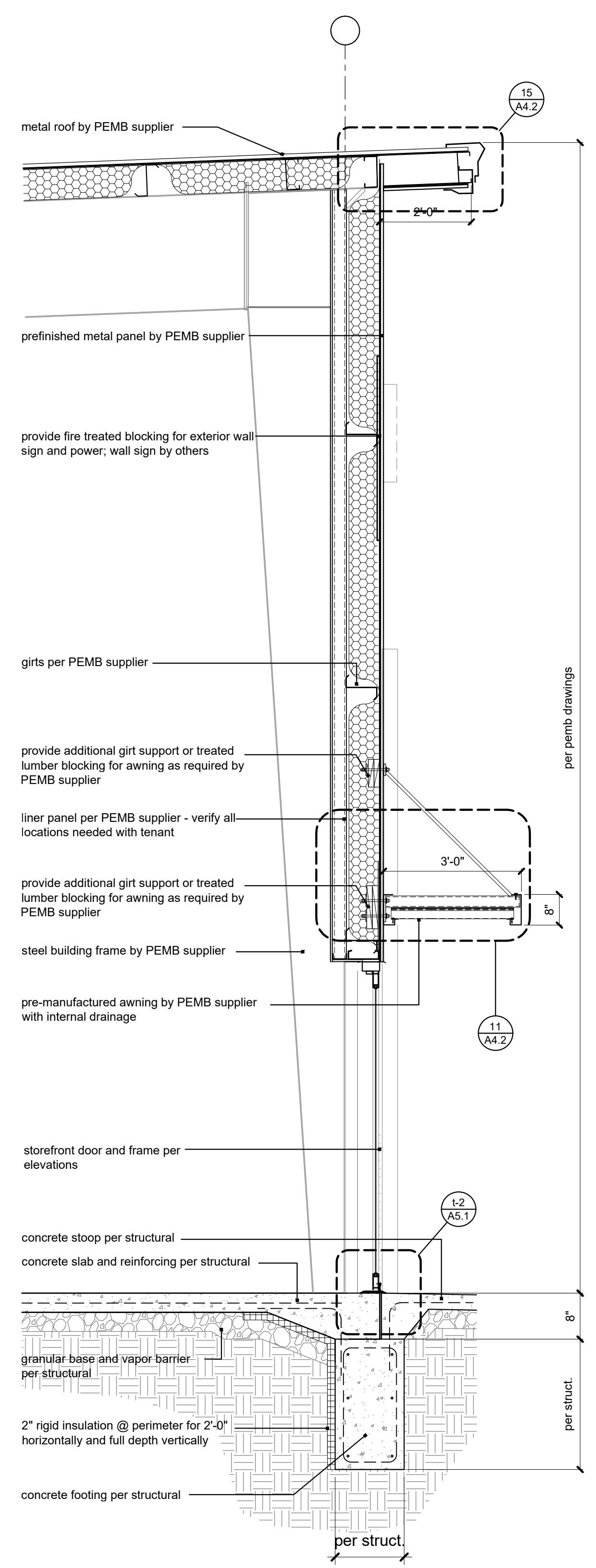


4301 Indian Creek Parkway
Overland Park, KS 66207
phone: 913.451.9390
fax: 913.451.9391
www.davidsonae.com

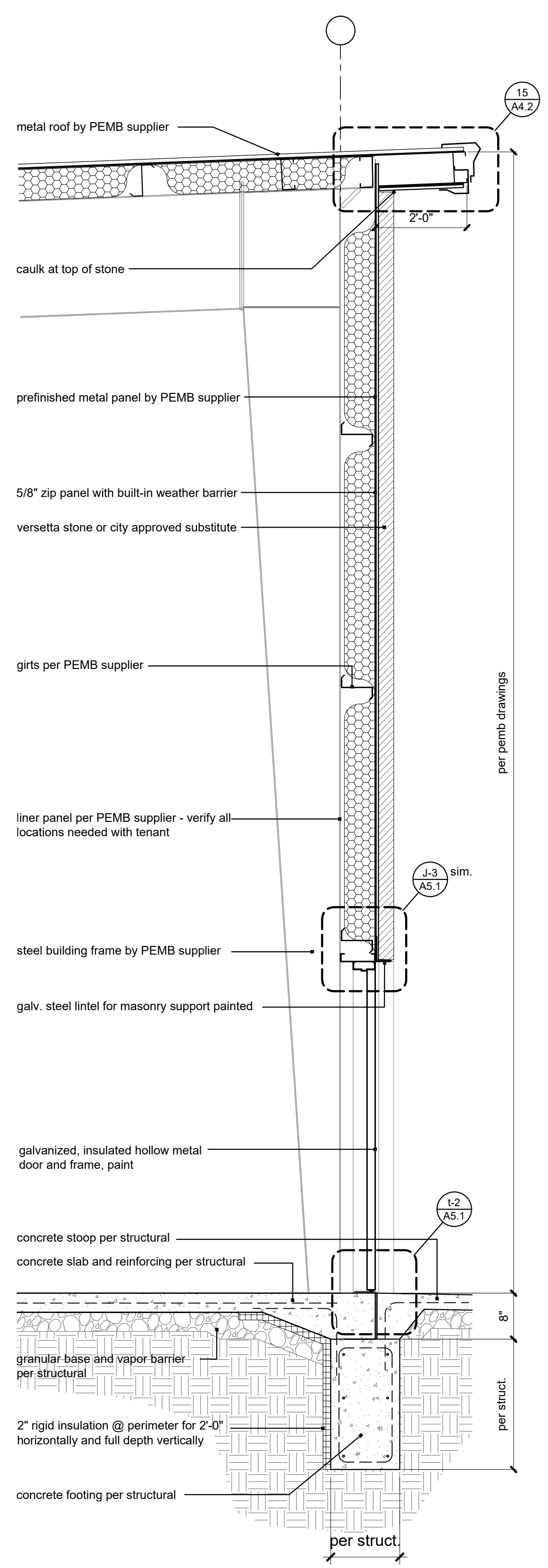
a new development for
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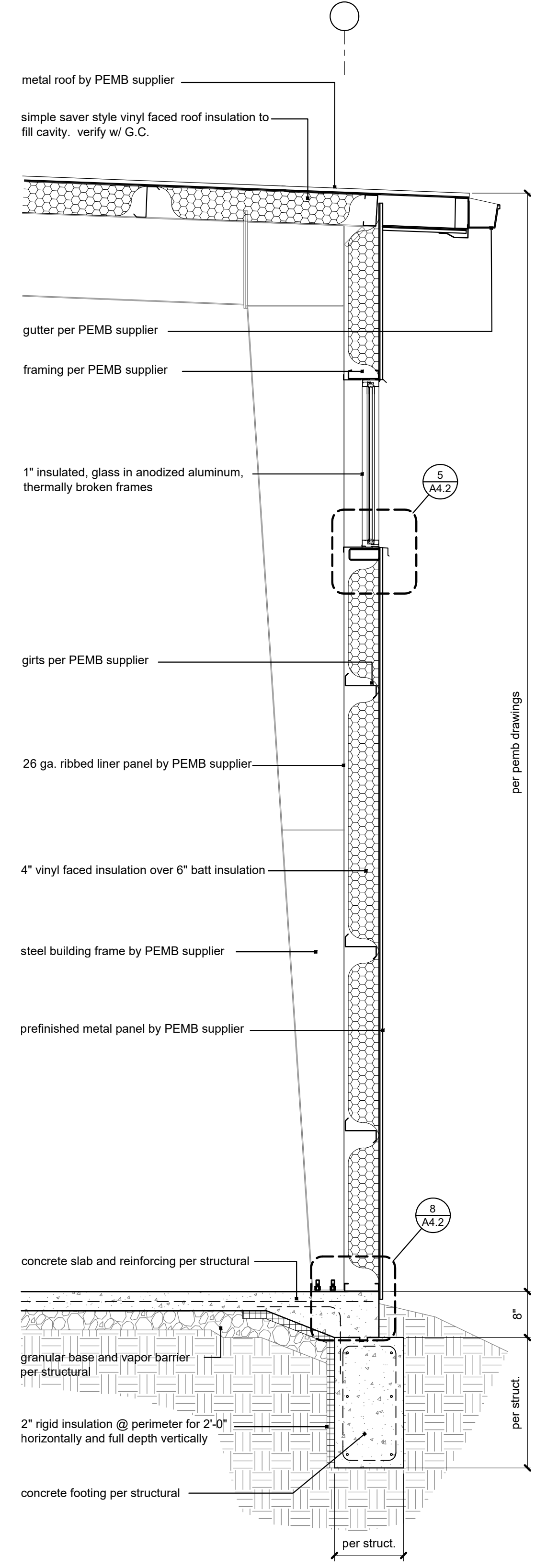
sheet number:
A4.1
drawing type:
FDP & Permit
project number:
20231



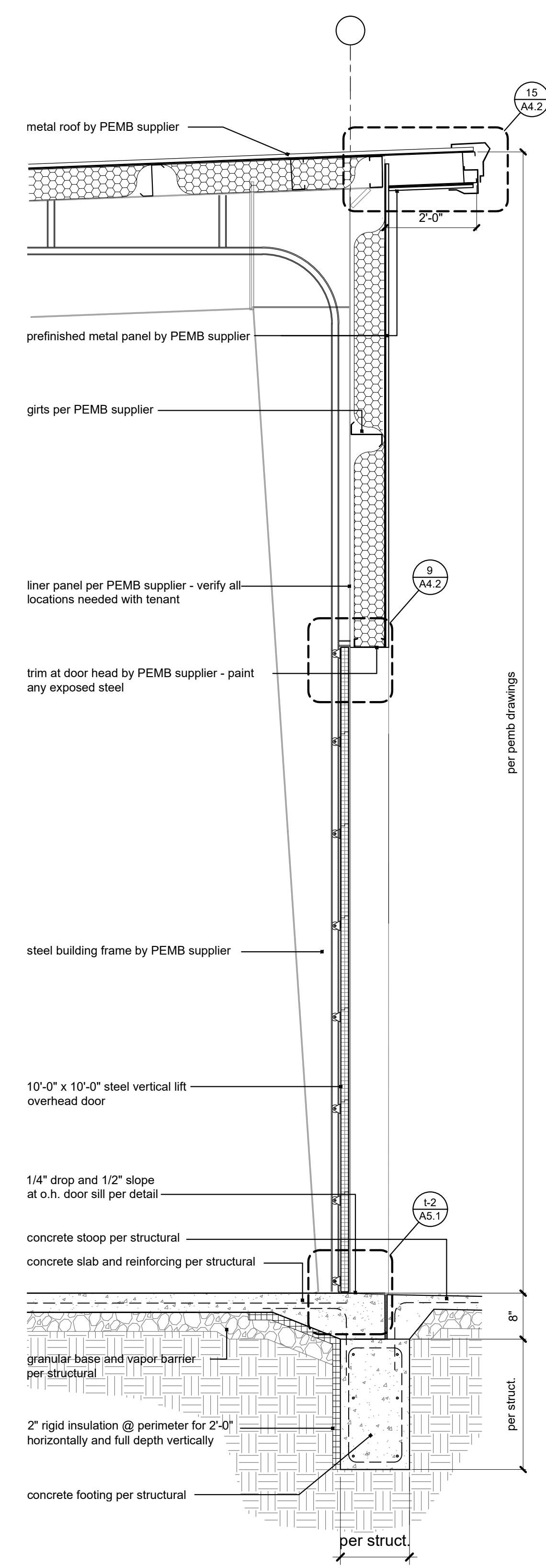
1 Wall Section
scale: 1/2" = 1'-0"



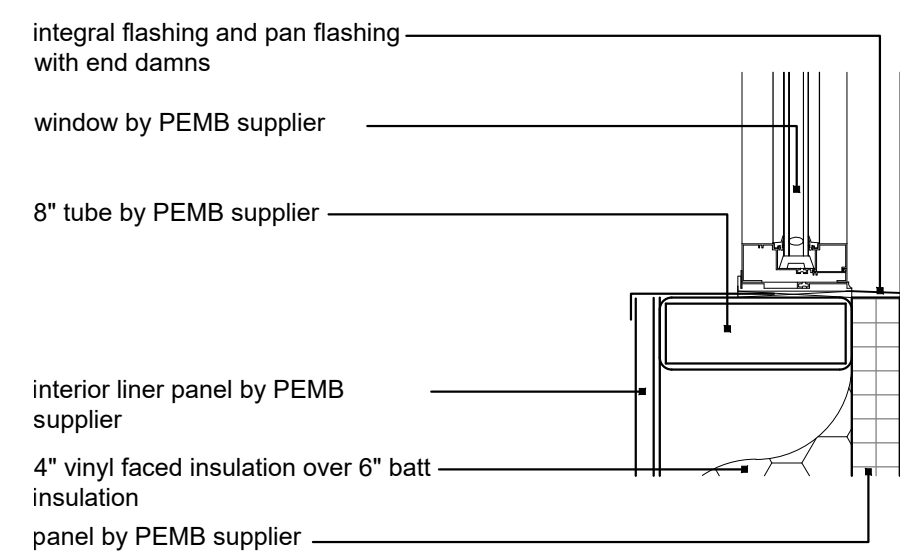
2 Wall Section
scale: 1/2" = 1'-0"



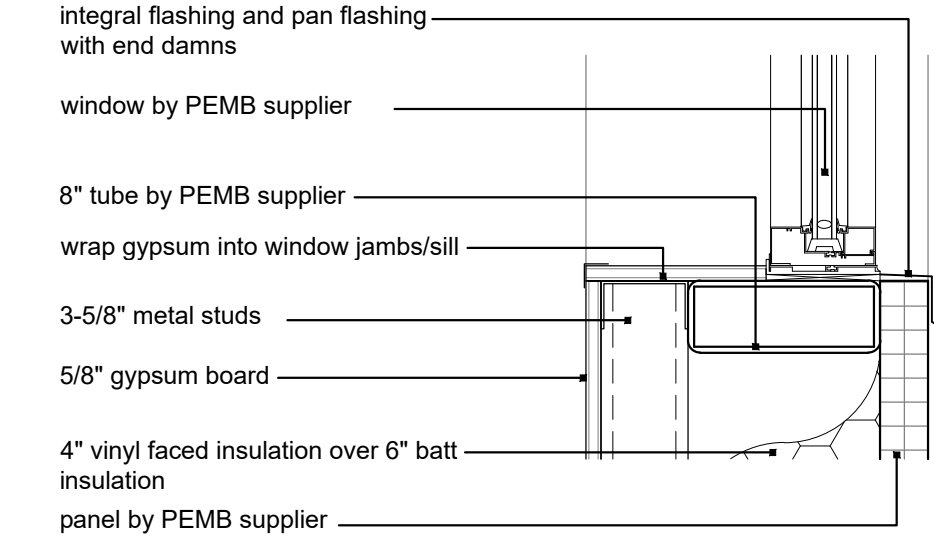
3 Wall Section
scale: 1/2" = 1'-0"



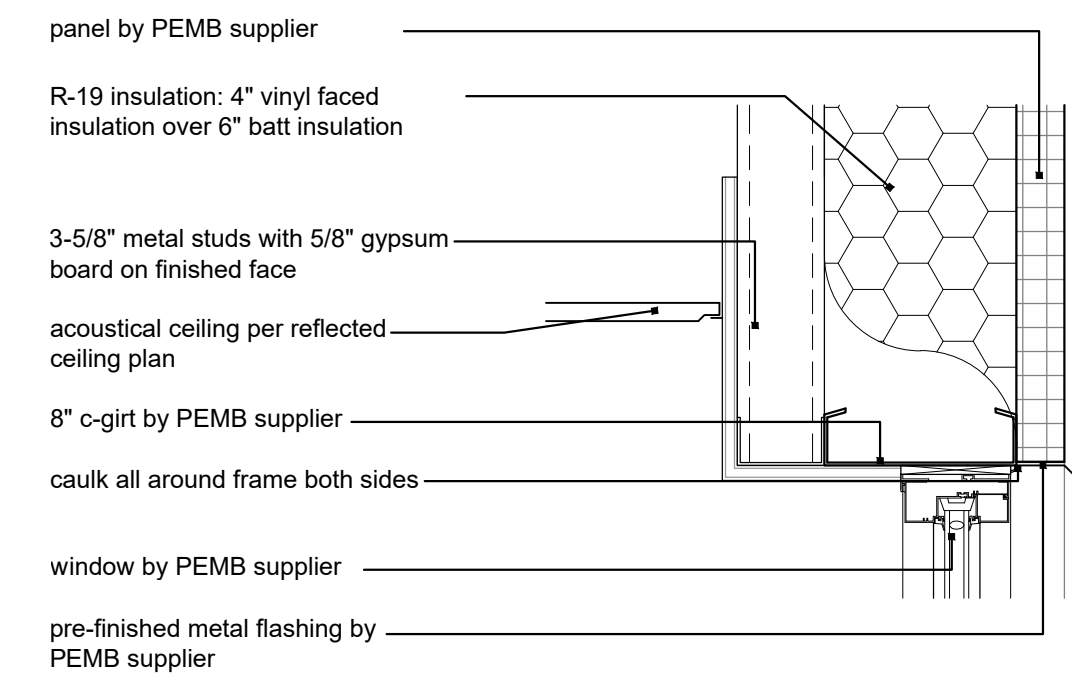
4 Wall Section
scale: 1/2" = 1'-0"



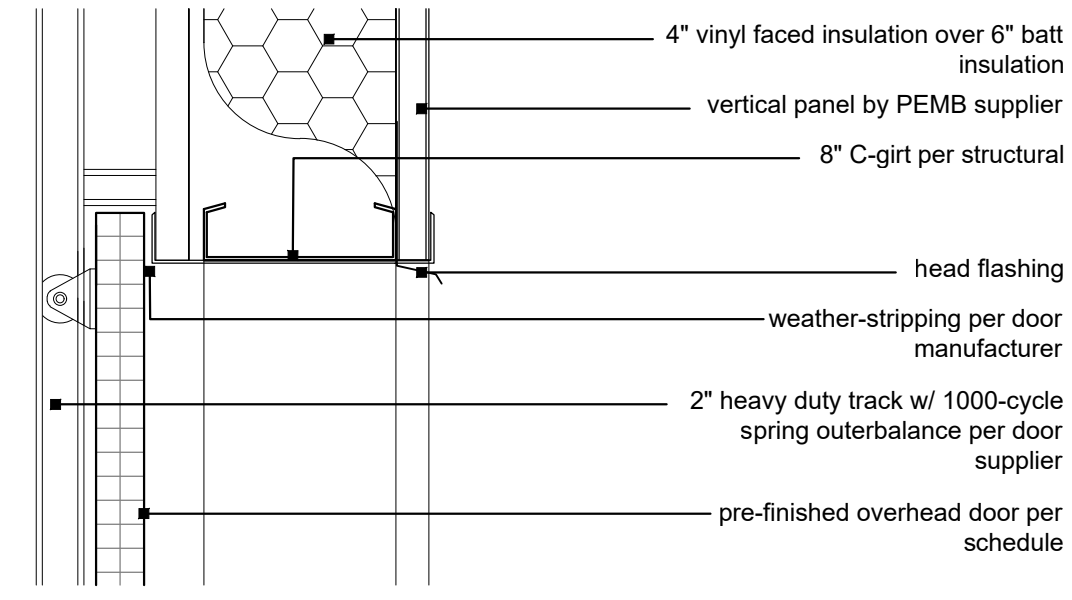
5 Clerestory Sill
scale: 1-1/2" = 1'-0"



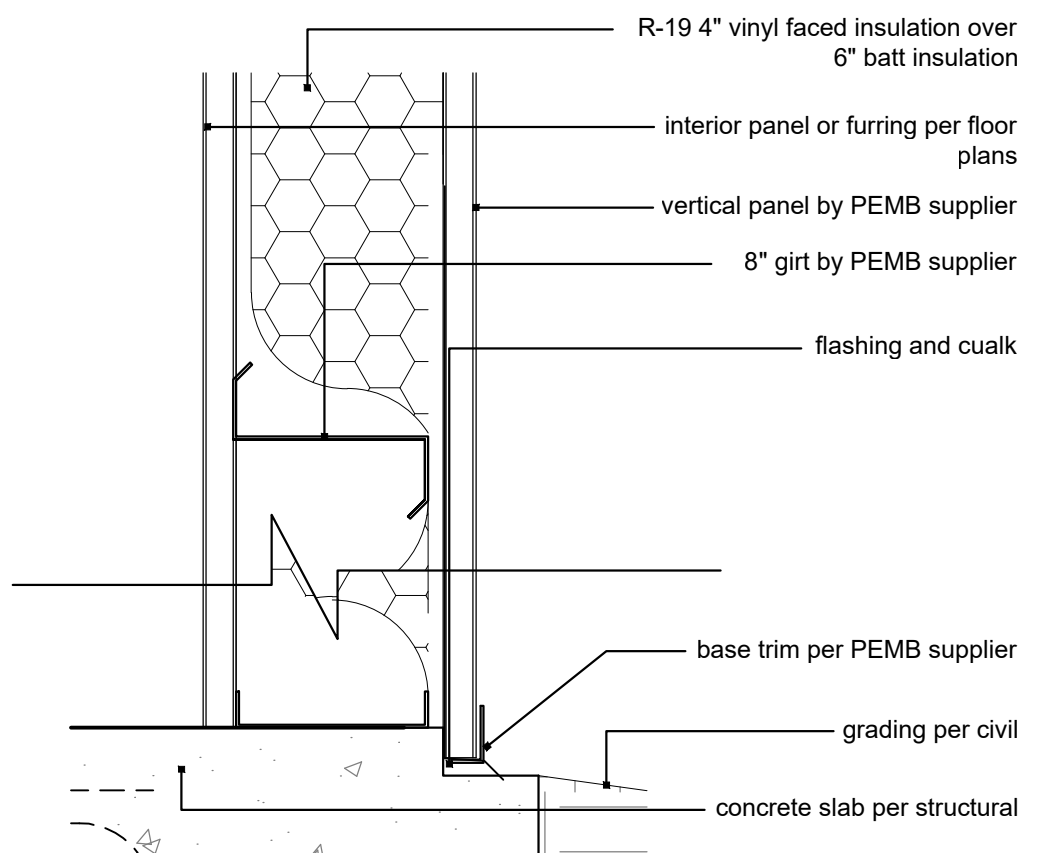
4 Window Sill @ Shop
scale: 1-1/2" = 1'-0"



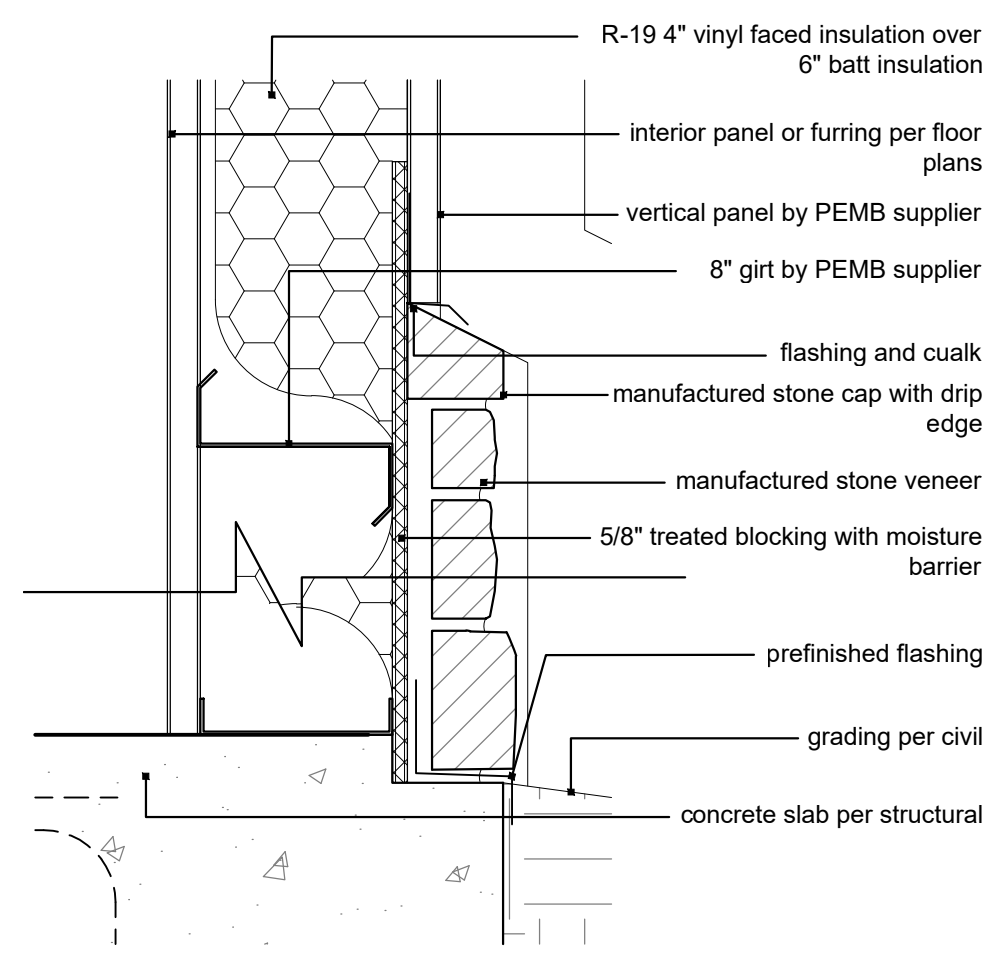
2 Window Head @ metal panel
scale: 1-1/2" = 1'-0"



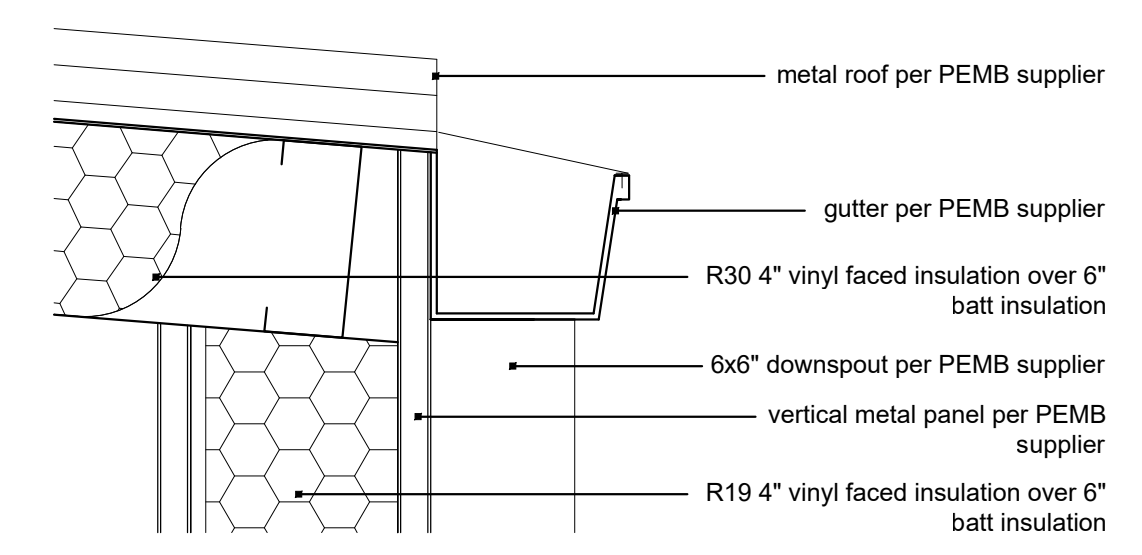
9 Ovhd Door
scale: 1-1/2" = 1'-0"



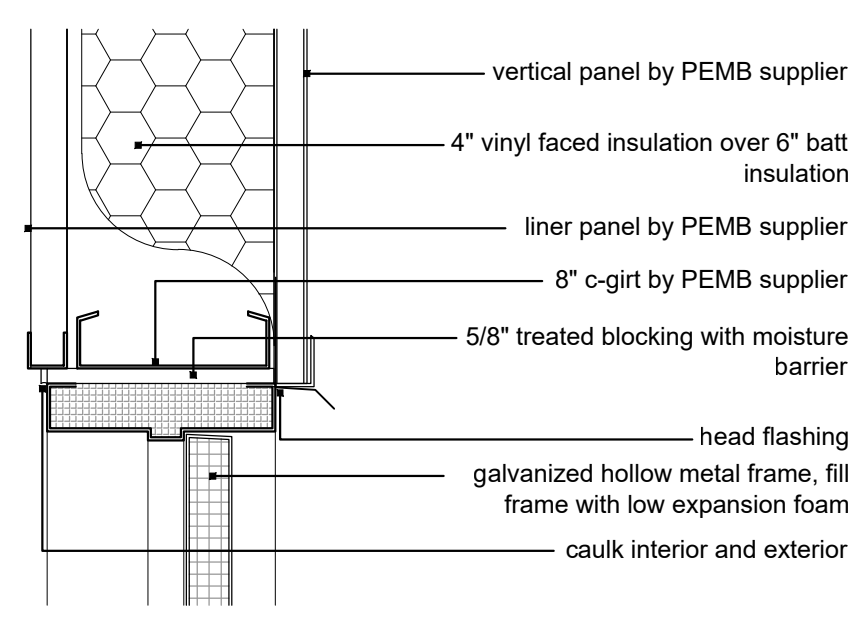
8 metal panel @ base
scale: 1-1/2" = 1'-0"



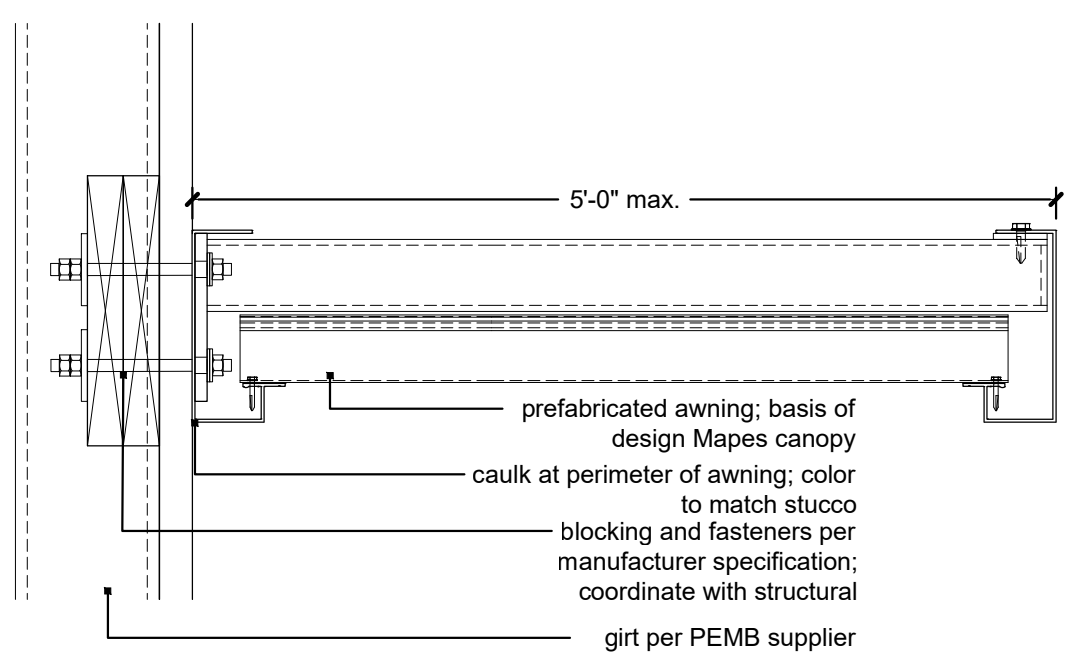
7 Stone Cap
scale: 1-1/2" = 1'-0"



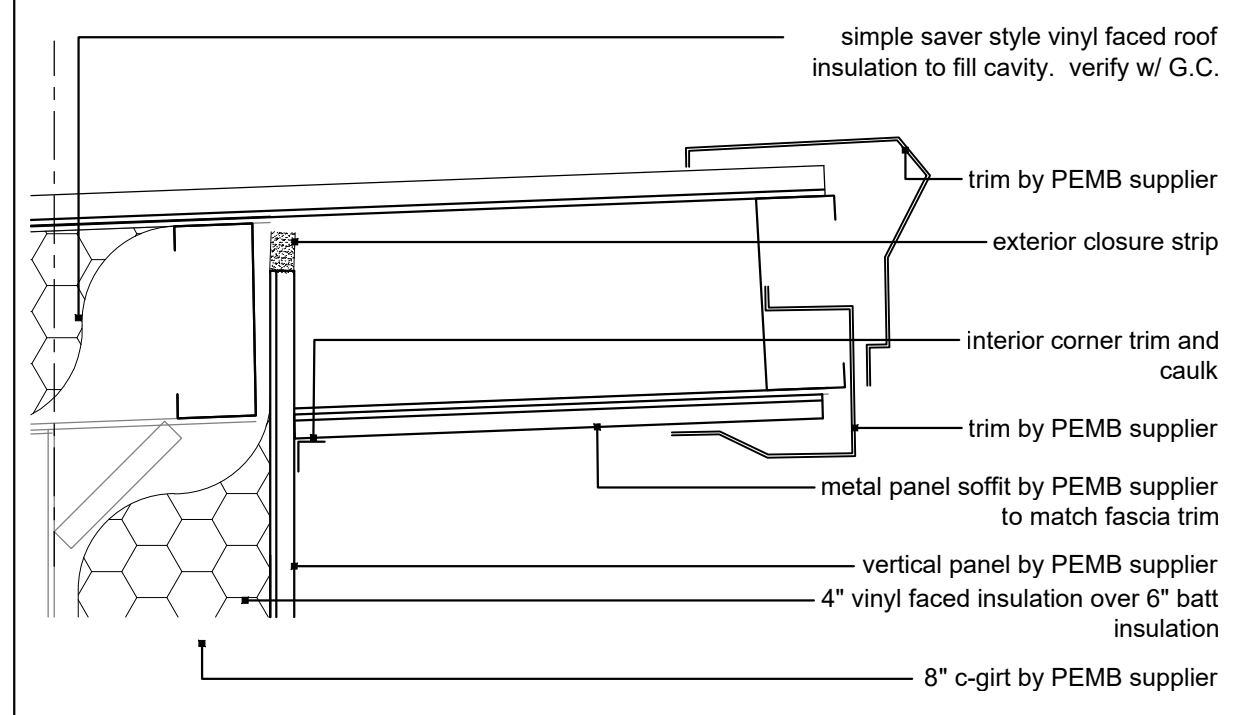
6 Gutter
scale: 1-1/2" = 1'-0"



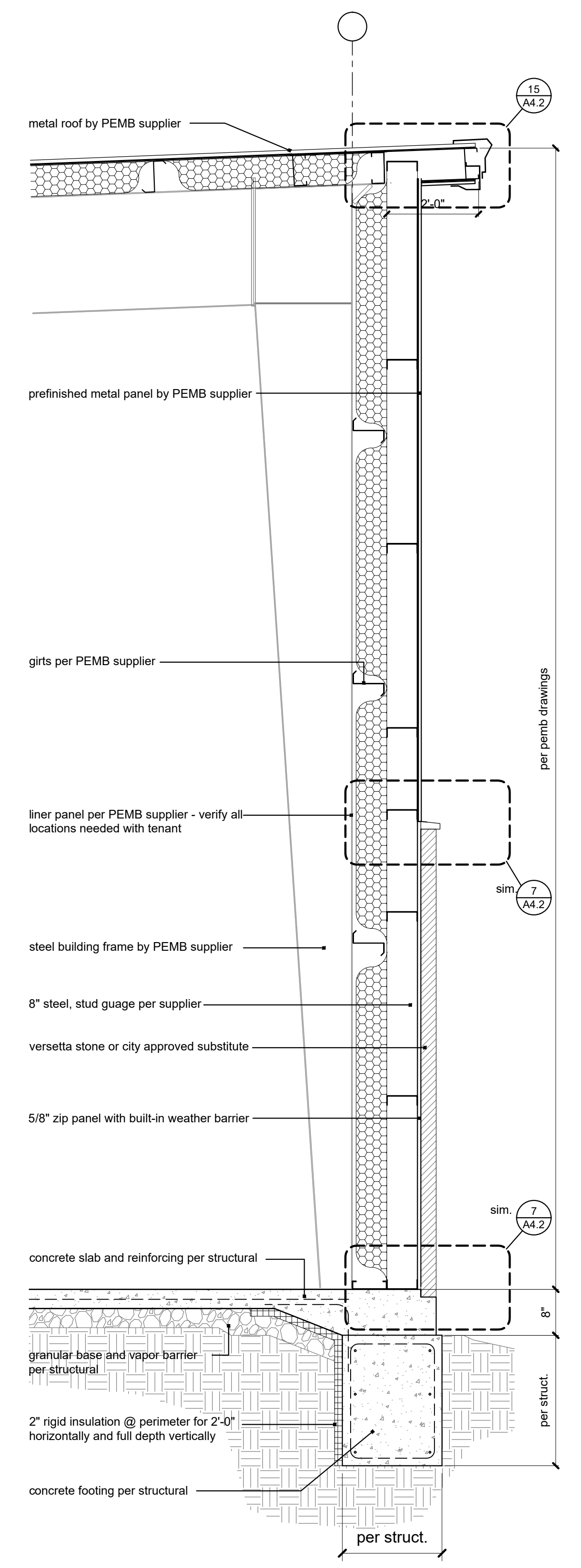
12 Door @ Liner Panel
scale: 1-1/2" = 1'-0"



11 Awning
scale: 1-1/2" = 1'-0"



15 Wall Section
scale: 1/2" = 1'-0"



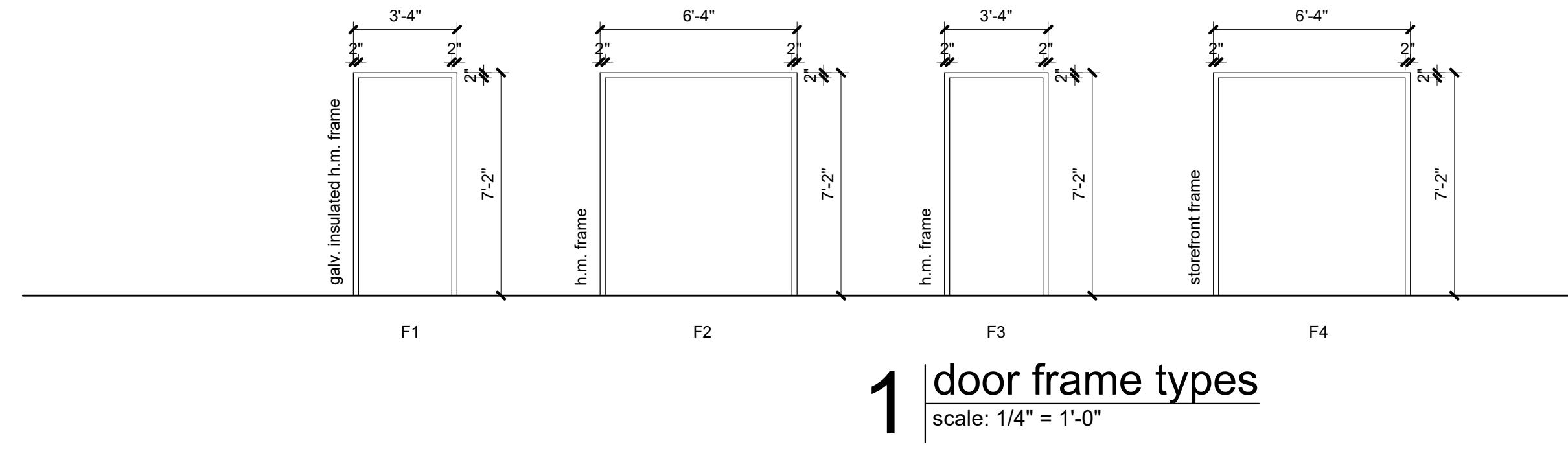
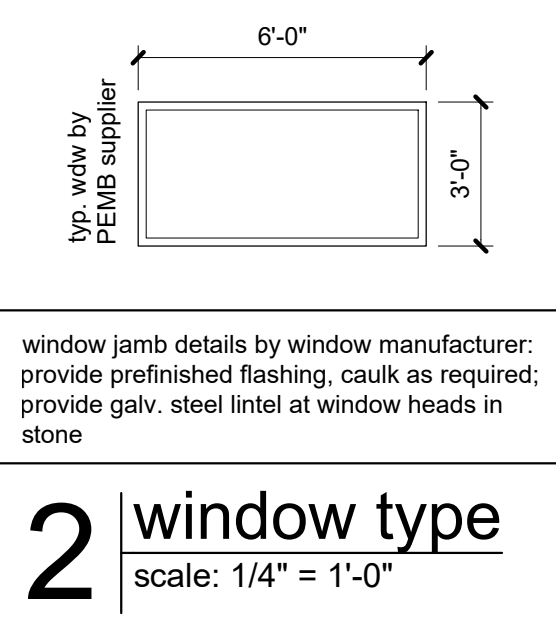
14 Wall Section
scale: 1/2" = 1'-0"

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drawing type FDP & Permit
project number 20231

door #	doors						frames					fire rating	remarks
	type	mat.	finish	size			type	material	finish	details			
				width	height	thick				jamb	sill		
01	E	alum.	black	3'-0" pr.	7'-0"	1 3/4"	F4	alum.	black	J-2	t-1	-	verify color matches window frames
02	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
03	B	wd.	paint	3'-0" pr	7'-0"	1 3/4"	F2	h.m.	paint	J-4	-	-	
04	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
05	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
06	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
07	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
08	A	wd.	paint	3'-0"	7'-0"	1 3/4"	F3	h.m.	paint	J-4	-	-	
09	C	galv. h.m.	paint	3'-0"	7'-0"	1 3/4"	F1	galv. h.m.	paint	J-3	t-2	-	
10a	C	galv. h.m.	paint	3'-0"	7'-0"	1 3/4"	F1	galv. h.m.	paint	J-1	t-2	-	
10b	C	galv. h.m.	paint	3'-0"	7'-0"	1 3/4"	F1	galv. h.m.	paint	J-1	t-2	-	
10c	C	galv. h.m.	paint	pair 3'-0"	7'-0"	1 3/4"	F1	galv. h.m.	paint	J-4	-	-	paint door to match blue siding, verify size with PEMB dwgs
11a	D	ovhd	prefin.	3'-0"	7'-0"	1 3/4"	-	-	-	-	t-3	-	paint door to match blue siding, verify size with PEMB dwgs
11b	D	ovhd	prefin.	3'-0"	7'-0"	1 3/4"	-	-	-	-	t-3	-	paint door to match blue siding, verify size with PEMB dwgs
12	C	galv. h.m.	paint	3'-0"	7'-0"	1 3/4"	F1	galv. h.m.	paint	J-1	t-2	-	

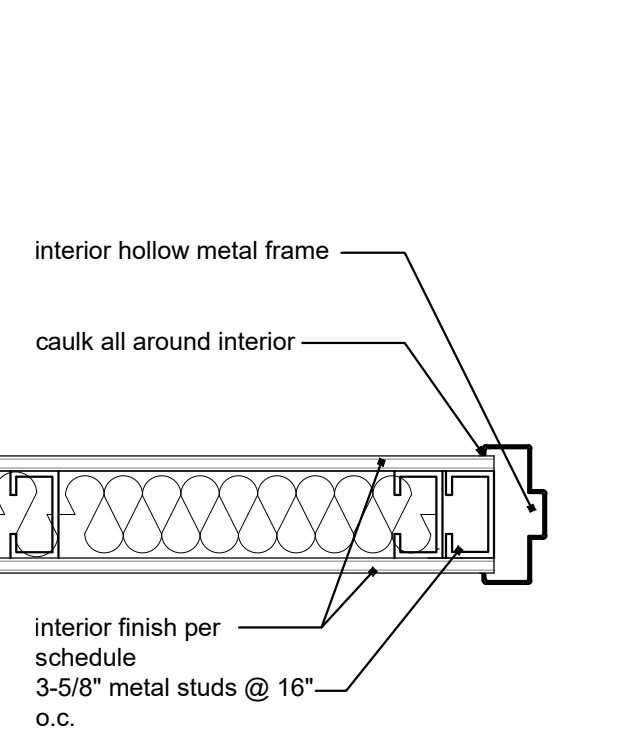
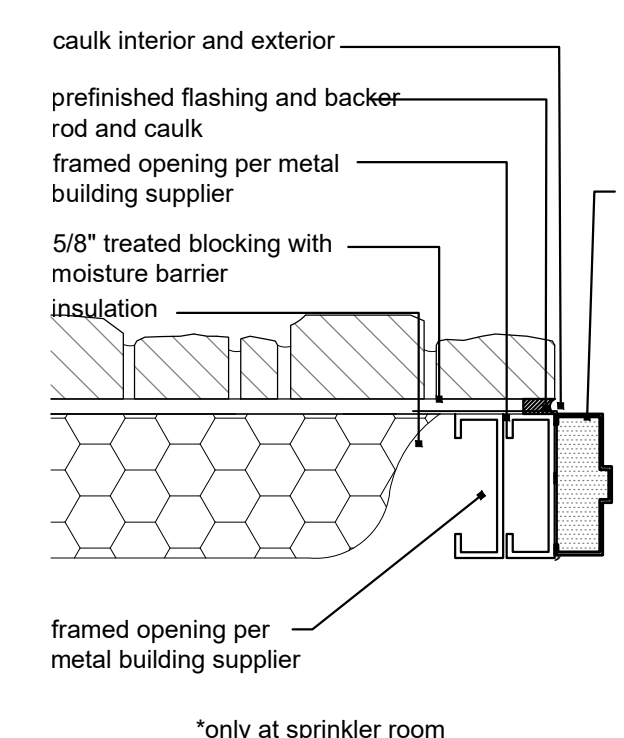
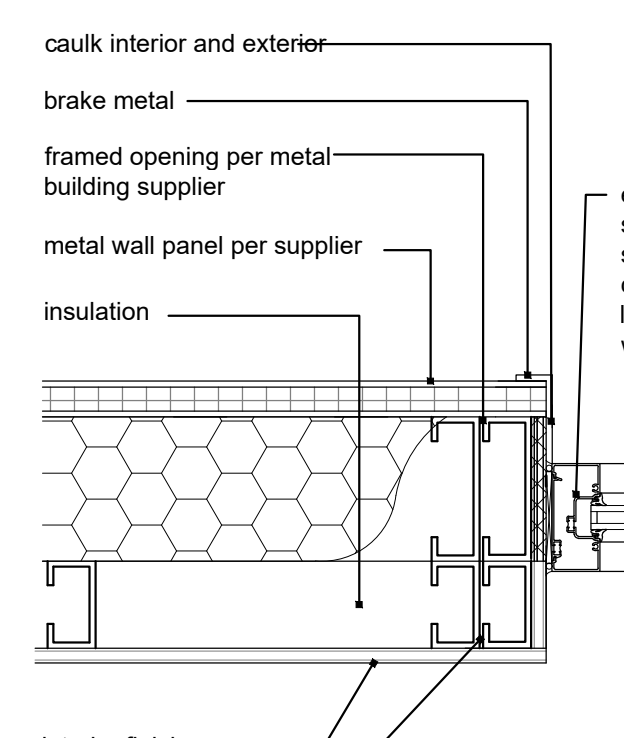
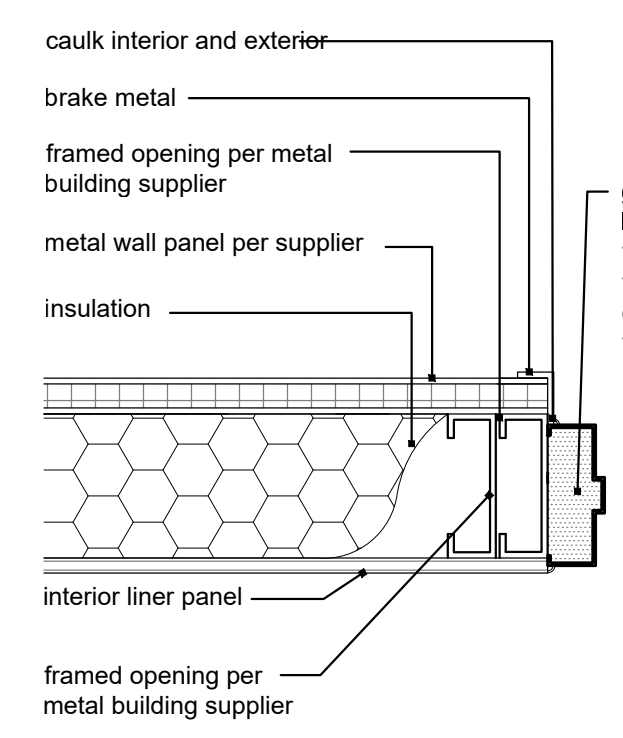


door and hardware notes

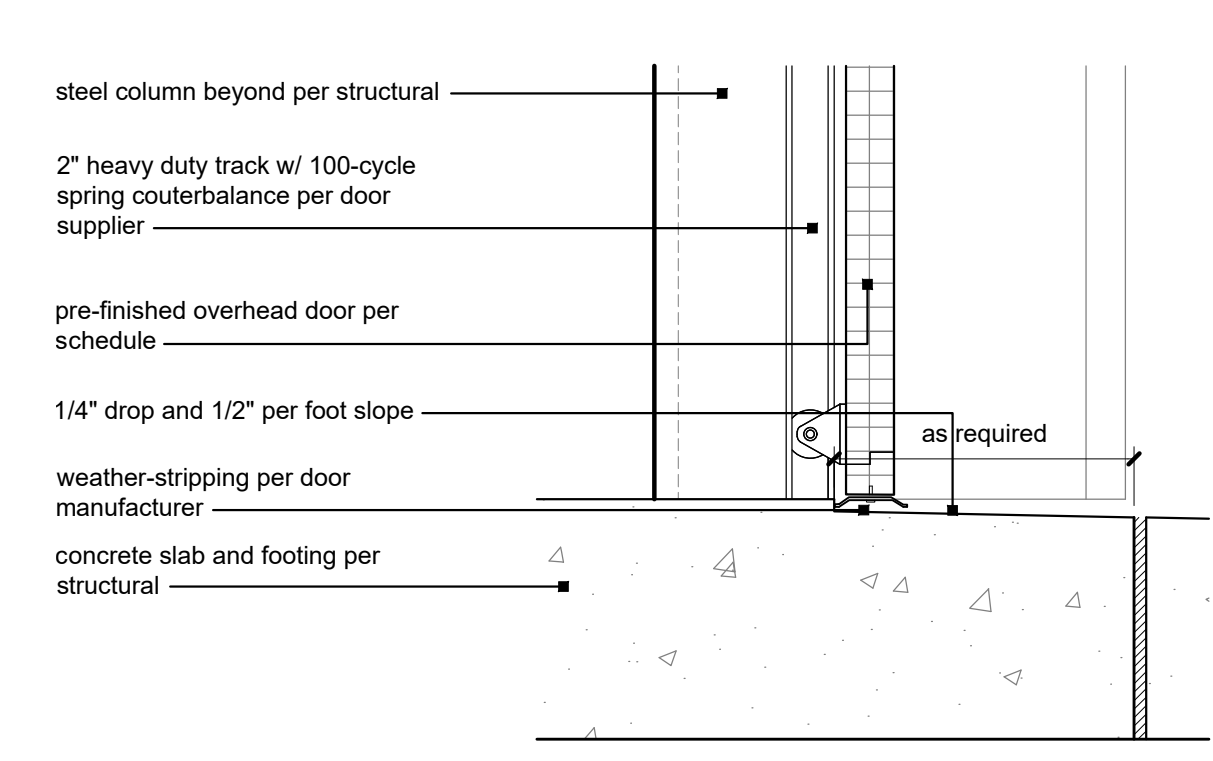
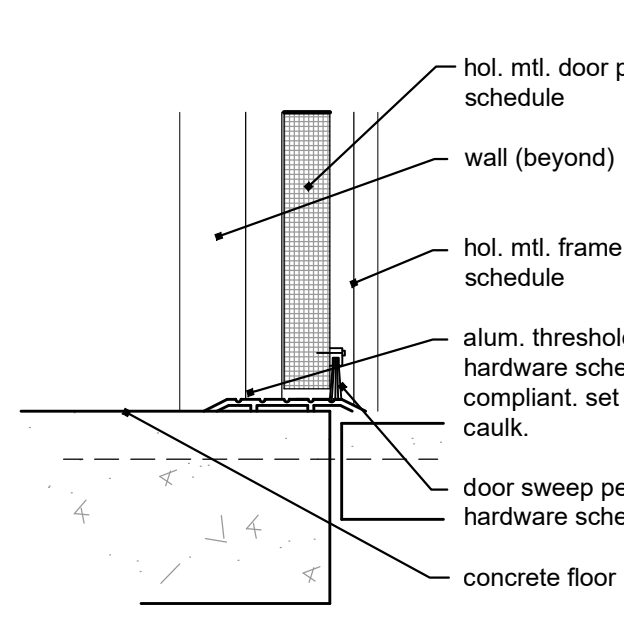
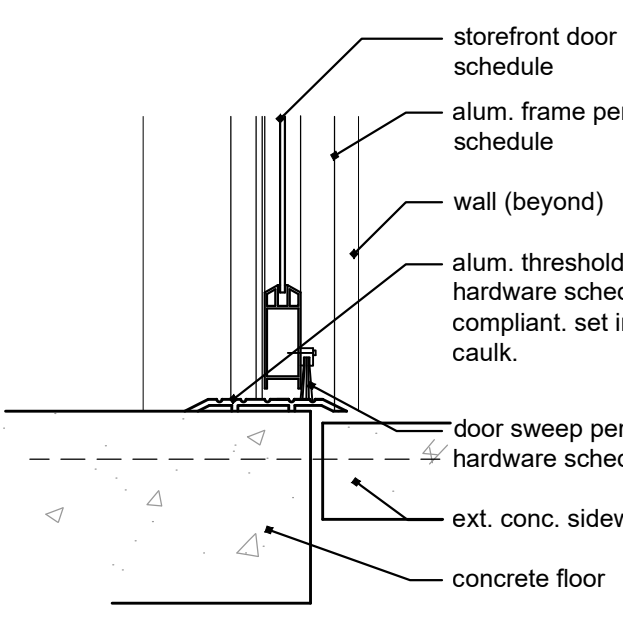
- All hardware shall be clear anodized aluminum or close match with the exception of the exterior entry storefront door, which should match the window frames.
- Coordinate security hardware and electrical that may be required with tenant.
- All hinges at exterior doors shall have non-removable pins.
- Doors with closers shall have ball bearing hinges
- Threshold shall coordinate with adjacent floor finish at either site
- Hardware shall be heavy-duty, commercial grade, level 1 with lever handle
- Finish hardware shall meet article III of ADA
- Keying shall be coordinated with owner prior to order of hardware
- All storefronts shall be caulked around entire perimeter and at the inside corners
- All exterior doors shall include a rain guard
- All glazing shall comply with section 2406 of the 2018 IBC
- All glazing interior or exterior per Section 2406 of the 2018 IBC, including glass mirrors shall be constructed with safety glazing
- Category II glazing is required in storefront doors per section 2406 of the 2018 IBC
- Category A glazing shall be utilized in glazed panels greater than 9 sq. ft. per section 2406 of the 2018 IBC.
- Each pane of safety glazing installed in hazardous locations shall be identified by a manufacturer's designation specifying who applied the designation, the manufacturer or installer and the safety glazing standard with which it complies, as well as the information specified in '2403.1' Section 2403.1. The designation shall be acid etched, sand blasted, ceramic fired, laser etched, embossed or aof a type that once applied, cannot be removed without being destroyed. Tempered spandrel glass is permitted to be identified by the manufacturer with a removable paper designation.
- Panic hardware shall be provided per section 1008.1.10 of the 2018 IBC.

hardware list

- exterior storefront door: 01 *match hardware color to door color
 - rain drip
 - ADA offset door pull
 - panic hardware with closer (compatible with storefront)
 - entry door lockset
 - none removable hinges
 - door sweep
 - weather gasketing
 - wall stop
- exterior hollow metal door: 10a, 10b, 12
 - rain drip
 - ADA exterior lever handle
 - panic hardware with closer
 - lockset
 - non removable hinges
 - door sweep
 - weather gasketing
 - floor stop (locate away from floor traffic to avoid tripping hazard)
- interior double door: 03, 10c, 12
 - push bar with closer
 - ADA door pulls
 - vertical
 - silencers
 - non removable hinges
 - wall stop
- sprinkler room: 09
 - rain drip
 - ADA exterior lever handle
 - closer
 - nonremovable hinges
 - door sweep
 - weather gasketing
- office door: 04
 - door stop
 - ADA lever handles with privacy lockset
 - hinges
 - silencers
 - wall stop
- party room/lounge: 06, 21
 - closer
 - ADA lever handles with storeroom lockset
 - hinges
 - silencers
 - wall stop
- multi-stall bathroom: 05, 08
 - closer
 - ADA door pull
 - no-hands door pull
 - push plate
 - kick plate
 - hinges
 - silencers
 - wall stop
- single user bathroom: 22, 23
 - closer
 - ADA lever handles with privacy lockset
 - hinges
 - silencers
 - wall stop
- storage/closet: 02, 07, 21a, 24
 - ADA lever handles with storeroom lockset
 - hinges
 - silencers
 - wall stop
- stair: 20
 - panic hardware with closer
 - ADA door pull
 - silencers
 - kick plates
 - hinges
 - wall stop



4 | Jamb Types
scale: 1-1/2" = 1'-0"

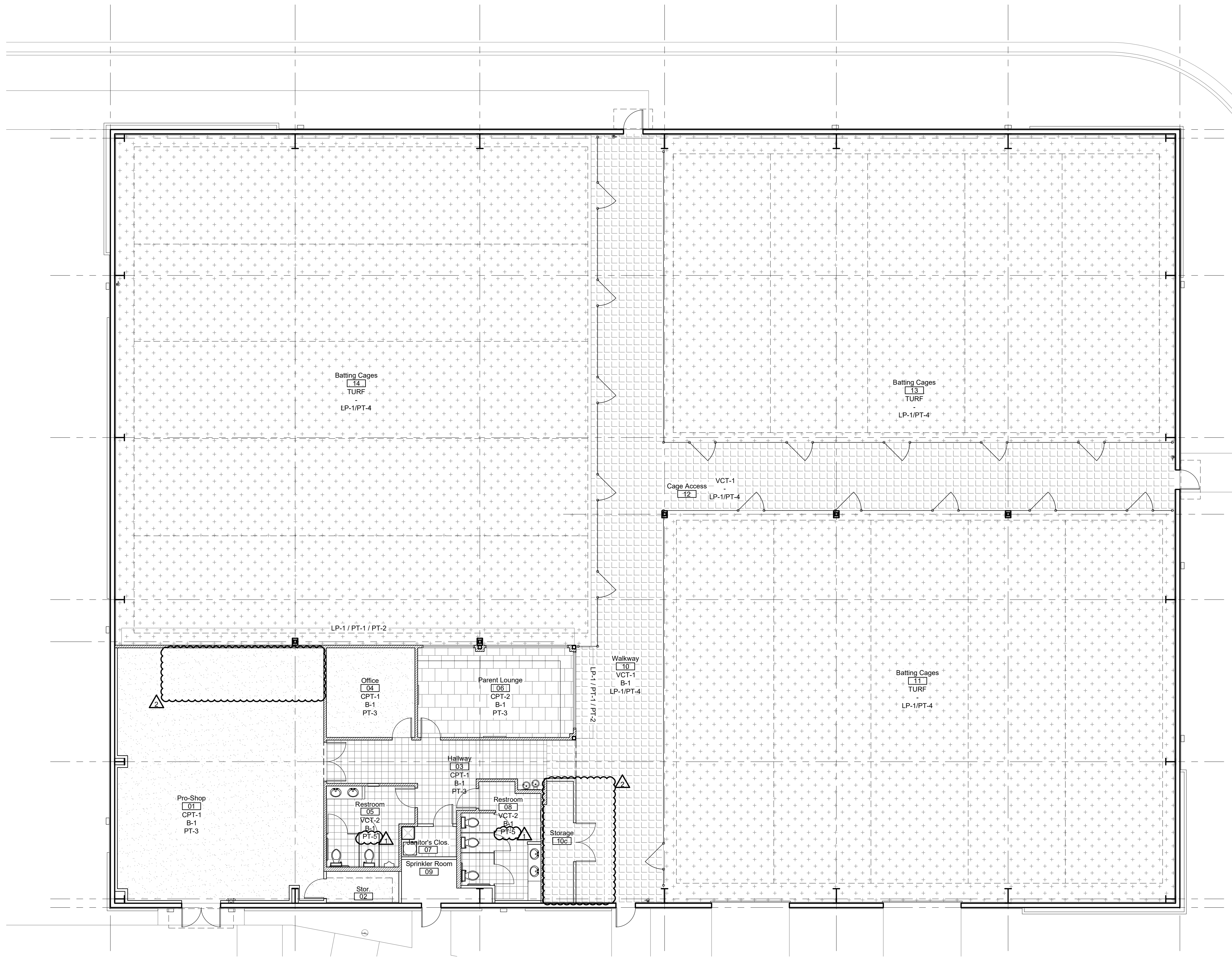
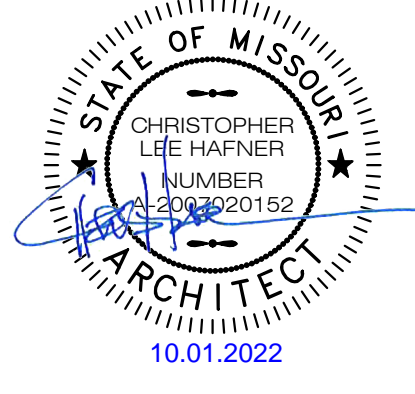


5 | Threshold Types
scale: 1-1/2" = 1'-0"

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- TURF
- VCT-1
- CPT-1
- VCT-2
- CPT-2

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1 Finish Floor Plan
scale: 1/8" = 1'-0"

room finish schedule

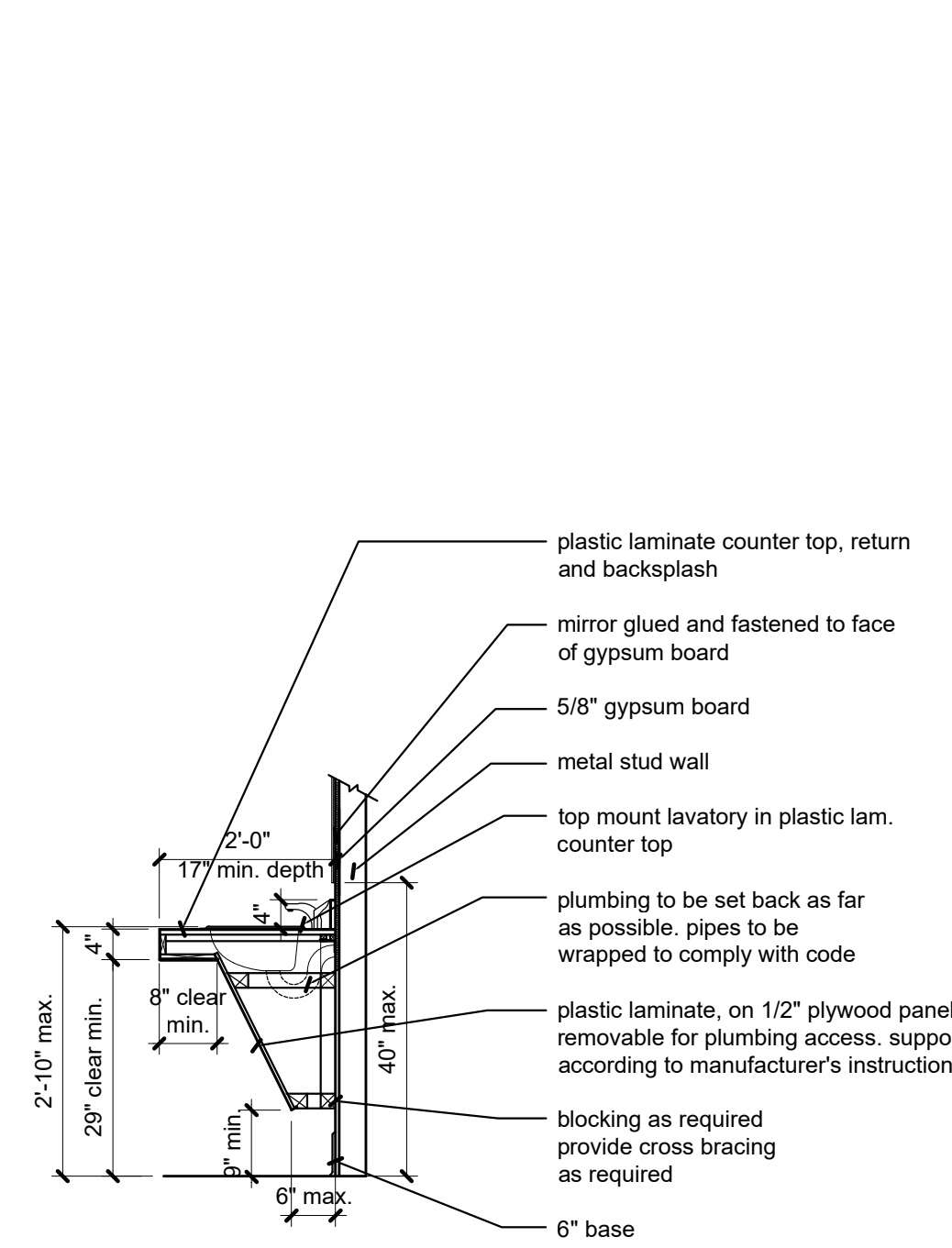
room no.	room name	floor				base			wall				ceiling		remarks
		CPT-1	CPT-2	VCT-1	TURF	bs	bt	none	nw	sw	ne	se	act 1	dig. ht.	
01	Pro-Shop	●				●								14'-0"	△
02	Storage	●				●								open	
03	Hallway			●		●								9'-0"	
04	Office	●				●								8'-0"	
05	Restroom			●		●								8'-0"	
06	Parent Lounge			●		●								12'-0"	△
07	Janitor's Closet			●		●								8'-0"	
08	Restroom			●		●								8'-0"	
09	Sprinkler Room			●		●								open	
10	Walkway			●		●								open	
10c	Storage Closet			●		●								open	
11	Batting Cages			●		●								open	
12	Cage Access			●		●								open	
13	Batting Cages			●		●								open	
14	Batting Cages			●		●								open	

finish legend

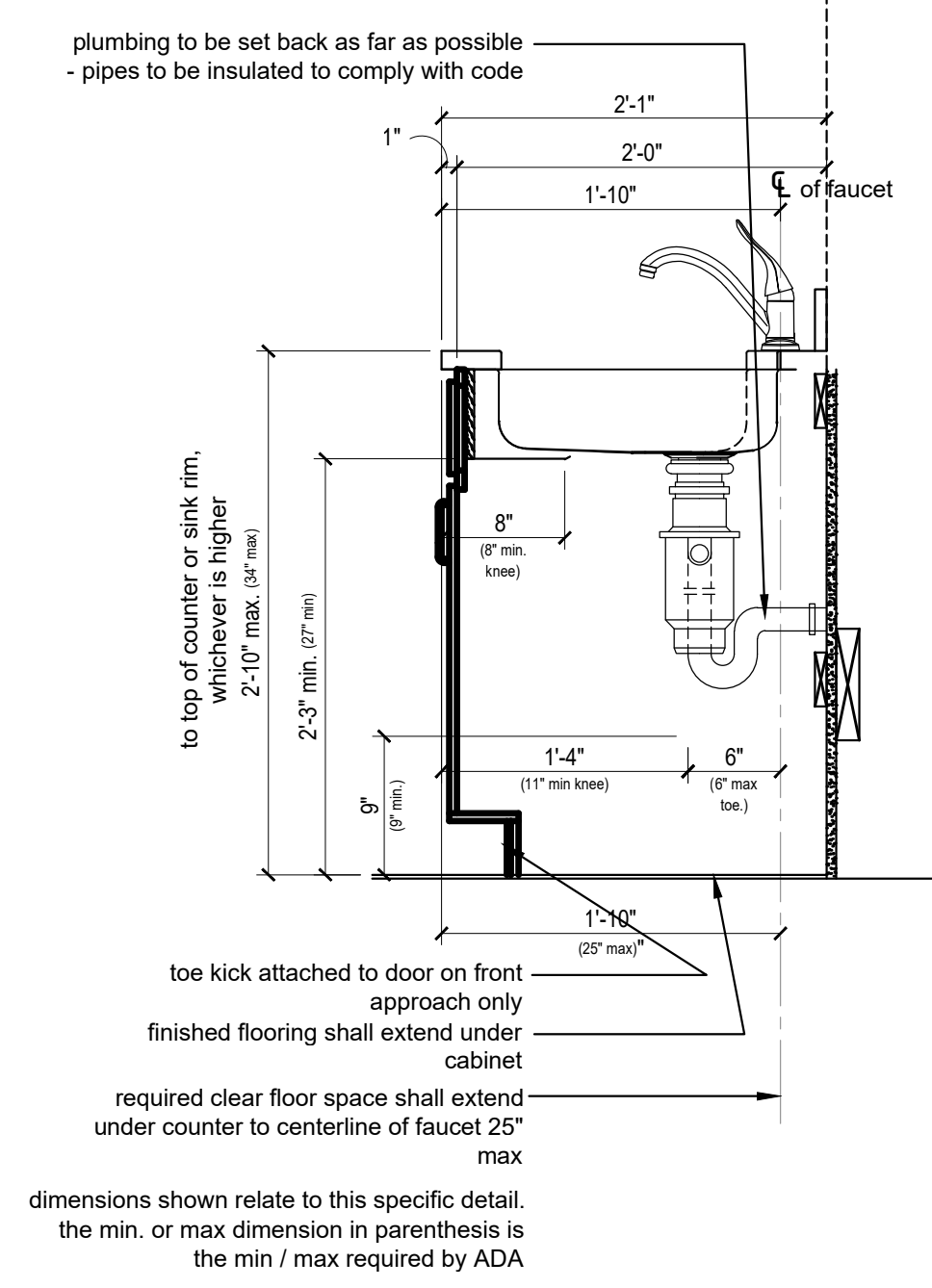
CPT-1	carpet tile, Philadelphia Commercial, style: Counterpart (54816), size: 24" x 24", color: Copilot (16400)
CPT-2	carpet tile, Philadelphia Commercial, style: Counterpart (54816), size: 24" x 24", color: Correlate (16505)
VCT-1	vinyl composite tile, Armstrong Flooring, style: Standard Excelon Imperial Texture VCT, size: 12" x 12", color: Gentian Blue (51946)
VCT-2	vinyl composite tile, Armstrong Flooring, style: Standard Excelon Imperial Texture VCT, size: 12" x 12", color: Pomegranate Red (51814) pricing alternate: basis of design Restek epoxy floor, colored flakes with red as primary color - submit sample for tenant approval
TURF	D-BAT Turf
SC	sealed concrete - ashford sealer
B-1	vinyl base, manufacturer: TBD, standard cove, size: 4", color: gray
PT-1	wall paint, manufacturer: TBD, finish: eggshell, color: D-Bat Gold (1 coat primer, 2 coats paint - to cover)
PT-2	wall paint, manufacturer: TBD, finish: eggshell, color: D-Bat Red (1 coat primer, 2 coats paint - to cover)
PT-3	wall paint, manufacturer: TBD, finish: eggshell, color: D-Bat White (1 coat primer, 2 coats paint - to cover)
PT-4	wall paint, manufacturer: TBD, finish: eggshell, color: D-Bat Green (1 coat primer, 2 coats paint - to cover) - from base to 12'-0" a.f.f.
PT-5	epoxy paint, manufacturer: TBD, color: D-Bat White (1 coat primer, 2 coats paint - to cover) primer, sherwin williams, PrepRite High Build latex primer/surfacer, B28W601
PL-1	plastic laminate, wilsonart, color: indigo (D379)
PL-2	plastic laminate, wilsonart, color: dove grey (D92)
ACT-1	acoustical ceiling tile, armstrong, 2x2, prelude xl 1/8" exposed tee grid, dune #1774, angled tegular (revealed), fine texture, white
LP-1	liner panel, Chief Buildings, steel liner panel, color: Emerald Green (EG)
door	door finish, manufacturer: TBD, color: manufacturer's standard white

finish notes:

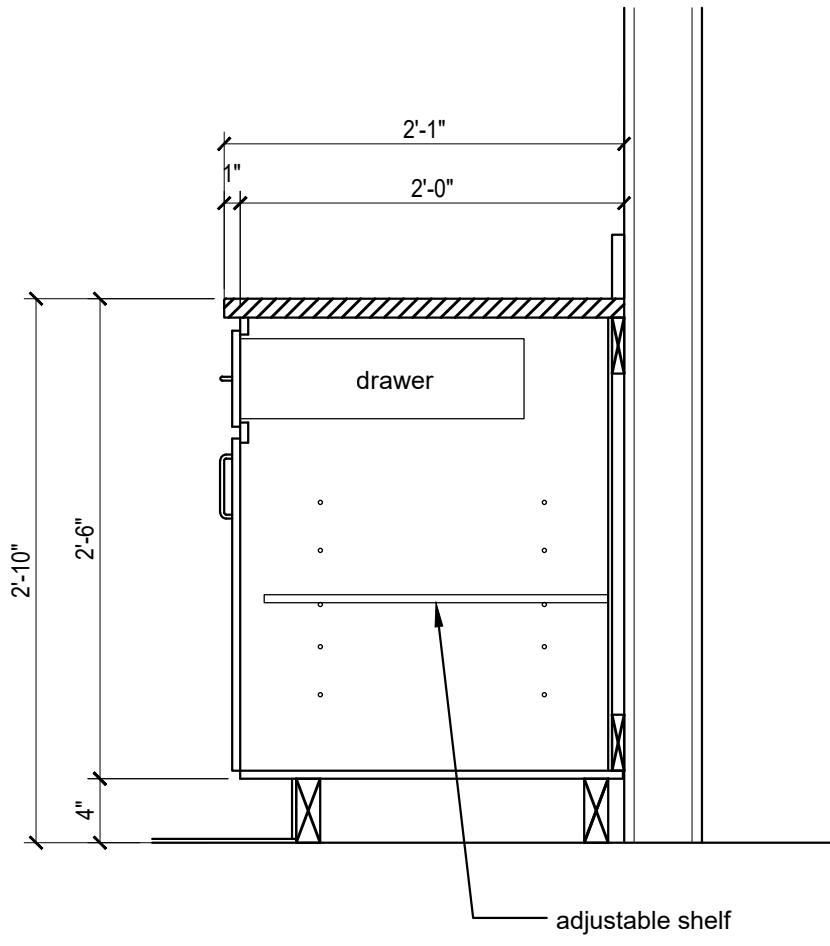
- All interior glazing to be clear. Temper all interior glass.
- Interior aluminum storefront shall have clear anodized aluminum finish
- Each material specified for application on the entire project shall be from the same dye lot.
- All surfaces shall be cleaned and conditioned to receive new finish as required by finish product manufacturer. Surfaces shall be smooth, free from depressions, protrusions, pits, slumps, streaks, flashing, and variation in texture. Installer/subcontractor shall notify general contractor prior to installation if conditions are not satisfactory.
- All wall mounted mechanical slots or grilles to be painted to match the wall on which they occur. Do not paint prefinished wall mullion end caps.
- Contractor shall be responsible for leveling of floor slabs to receive specified finishes.
- All patterned flooring to be centered in both directions and generated from center of room outward toward partitions, unless otherwise noted.
- All floor finish changes to occur under centerline of door in closed position.
- Combustible interior finish products shall be provided per the requirement of the international building code section 803.4.
- Carpet seams shall occur at junctions of partitions, thresholds or change of direction in corridors. No strip patch allowed smaller than 4'-0".
- Finishes shall be bid as specified or as approved equal only.
- Utilize dens-armour plus in all plumbing wet walls, walls anticipated to be in contact with moisture, or walls receiving ceramic tile.
- All interior ceramic corners & tops shall receive schluter trim.
- Refer to finish legend for level of gypsum board finish as defined by the gypsum association.
- LVT to sealed concrete shall occur with rubber transition to match base color.



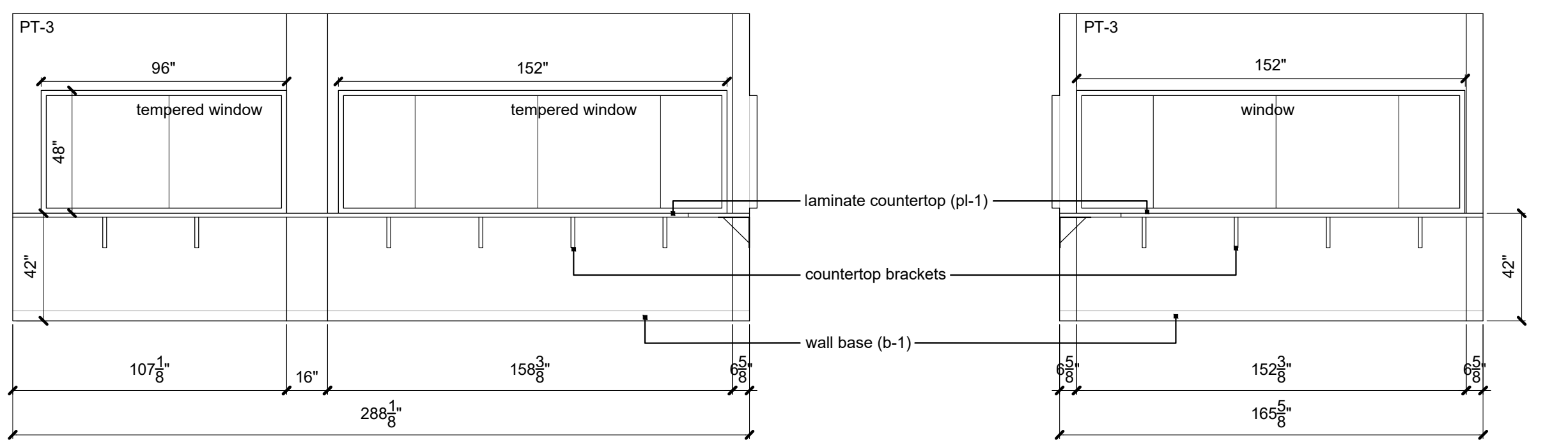
6 ADA sink
scale: 1/2" = 1'-0"



5 Sink Base Cabinet
scale: 1" = 1'-0"



4 Base Cabinet
scale: 1" = 1'-0"



3 Parents' Lounge Elevation
scale: 1/4" = 1'-0"

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sheet number

A5.3

drawing type FDP & Permit
project number 20231



NOTES - FOUNDATION

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH IBC CHAPTER 18 FOR USE OF PRESUMPTIVE LOAD-BEARING CAPACITY.
2. CONTRACTOR SHALL USE IBC SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER SOILS RELATED ITEMS.
3. ALL FOUNDATIONS TO BEAR ON ORIGINAL, UNDISTURBED SOIL. REMOVE ANY MUD, ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL PRIOR TO PLACING FOUNDATIONS.
4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
5. ALL EXTERIOR AND PERIMETER FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REFERENCE DESIGN INFORMATION FOR FROST DEPTH.

NOTES - CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNLESS NOTED OTHERWISE.
2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX DESIGNS.
3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
5. REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, WHERE THE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
7. REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC.
8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.
9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.
11. DOWELS IN FOOTING, WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE.
12. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT WALL AND SLAB OPENINGS.
13. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT CORNER AND TEE INTERSECTIONS.
14. PROVIDE VERTICAL CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS, EXCEPT FOUNDATION STEM WALLS LOCATED IN THE GROUND. SPACE JOINTS AT 3 x WALL HEIGHT FOR WALLS LESS THAN 10'-0" AND WALL HEIGHT FOR TALLER WALLS. PROVIDE ADDITIONAL JOINT WITHIN 10'-0" OF CORNERS.
15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

NOTES - STEEL

1. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. BOLTED CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GRADE A325 OR A490 BOLTS" PUBLISHED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
3. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 3.1 OF (AWS D1.1). ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS.
4. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF APEX ENGINEERS, INC.
5. CHANGES IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS, AND HOLES, SLOTS, CUTS, ETC. THROUGH ANY MEMBER, ARE NOT PERMITTED UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
6. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
7. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP UNO.
8. ALL VISIBLE WELDED CONNECTIONS ON ARCHITECTURAL ELEMENTS TO BE GROUND SMOOTH. DO NOT REDUCE THROAT SIZE OF WELD.
9. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED IN THE CONTRACT DOCUMENTS. FABRICATOR TO PROVIDE ENGINEERED STAMPED SHOP DRAWINGS AND CALCULATIONS FOR ALL CONNECTIONS THAT DO NOT COMPLY WITH AISC STEEL CONSTRUCTION MANUAL CHAPTER 10 SIMPLE SHEAR CONNECTIONS.
10. STEEL MEMBERS ON THE EXTERIOR OF THE BUILDING OR EXPOSED TO SOIL MUST BE, AT A MINIMUM, PROPERLY PRIMED WITH RUST INHIBITING PRIMER AND PAINTED. STEEL MEMBERS COMPLETELY ENCLOSED IN BUILDING ENVELOPE DO NOT REQUIRE PRIMER OR PAINT. UNO. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS OF EXPOSED STEEL.

NOTES - GENERAL

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
6. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS.
8. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
11. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.
12. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO INTERPRETATION.

NOTES - DEFERRED SUBMITTALS

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.
2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.
3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL.
6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.
7. CONTRACTOR SHALL SUBMIT STRUCTURAL DEFERRED SUBMITTAL FOR THE FOLLOWING:
 - STEEL GUARDRAILS AND HANDRAILS
 - STEEL FABRICATED STAIRS AND LADDERS
 - PRE-MANUFACTURED CANOPIES AND AWNINGS

NOTES - SHOP DRAWING SUBMITTALS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY.
2. CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER/FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNO.
3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.
4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT IN REJECTION.
6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.
7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:
 - CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS
 - CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS
 - PRE-ENGINEERED METAL BUILDING

SYMBOLS / ABBREVIATIONS

SYMBOL/TAG	DESCRIPTION	APPLIES TO	
	DETAIL ON SHEET	DETAILS, SECTIONS, & ELEVATIONS	
T.O.W. = XXX' - XX" B.O.W. = XXX' - XX"	ELEVATION (TOP) ELEVATION (BOTTOM)	FOUNDATION WALLS AND LEDGES (SIM)	
	ELEVATION MARK	LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS	
T.O.S. = XXX' - XX"	TOP OF STEEL ELEVATION	PLAN VIEW NOTATIONS	
JST BRG = XXX' - XX"	JOIST BEARING ELEVATION	PLAN VIEW NOTATIONS	
	REVISION MARK	SHEET REVISIONS	
ABV	DEFINITION	ABV	DEFINITION
AB	ANCHOR BOLT	SIM	SIMILAR CONDITION
CJ	CONTRACTION JOINT	STD	STANDARD
CL	CENTERLINE	TOC	TOP OF CONCRETE
DIA	DIAMETER	TOD	TOP OF DECK
EOD	EDGE OF DECK ANGLE	TOL	TOP OF LEDGE
EOS	EDGE OF SLAB	TOM	TOP OF MASONRY
EXT	EXTERIOR	TOS	TOP OF STEEL
GA	GAUGE	TOW	TOP OF WALL
HAS	HEADED ANCHOR STUDS	TYP	TYPICAL CONDITION
OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
PAF	POWDER ACTUATED FASTNR	WP	WORK POINT
BASE PLATE TAG			
COLUMN TAG			

DESIGN INFORMATION

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND/OR AMENDED BY LOCAL BUILDING CODES
SOILS INFORMATION:	THE FOUNDATION DESIGN PROVIDED IS BASED OFF OF A MINIMUM ALLOWABLE PRESUMPTIVE LOAD-BEARING VALUE AS INDICATED BY IBC TABLE 1806.2 IN LIEU OF A SITE BASE GEOTECHNICAL EVALUATION. IT IS RECOMMENDED THAT A QUALIFIED GEOTECHNICAL ENGINEER BE RETAINED TO VERIFY THESE ASSUMPTIONS PRIOR TO CONSTRUCTION. BY USE OF THIS FOUNDATION DESIGN WITHOUT PROVIDING SUCH VERIFICATION, APEX WILL NOT BE LIABLE FOR THIS DESIGN PARAMETER, AND THE OWNER SHALL ACCEPT ALL RISKS ASSOCIATED WITH DAMAGE TO THE STRUCTURE AS A RESULT OF EXPANSIVE, COMPRESSIBLE, SHIFTING AND/OR DIFFERENTIAL MOVEMENT AS A RESULT OF DIFFERING SUBGRADE CONDITIONS BETWEEN EXISTING AND NEW FOUNDATION ELEMENTS.
FROST DEPTH	36"
PRESUMPTIVE LOAD-BEARING PRESSURE	2000 psf

MATERIAL SPECIFICATIONS

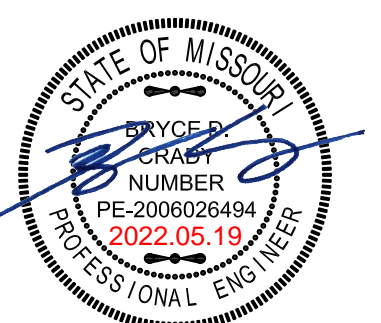
STEEL MATERIAL SPECIFICATIONS						
STEEL MEMBERS	MATERIAL					
WIDE FLANGE SHAPES (W)	ASTM A992					
CHANNELS (C), ANGLES (L)	ASTM A36					
PLATES	ASTM A36					
HOLLOW STRUCTURAL SHAPES (HSS)	ASTM A500, GRADE C					
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325					
ANCHOR BOLTS (HEX-HEAD UNO)	ASTM F1554 (55 ksi) "S1"					
EPOXY ANCHOR RODS	ASTM A36					
STEEL DECK, PLAIN STEEL	ASTM A1008, (33 ksi)					
STEEL DECK, GALVANIZED	ASTM A653, (33 ksi)					
NON-SHRINK GROUT, COL. BASES	5000 psi (28 DAY STRENGTH)					
CONCRETE & REINFORCING STEEL SPECIFICATIONS						
MATERIAL	SPECIFICATION					
REINFORCING BARS	ASTM A615, GRADE 60					
WELDED REBAR	ASTM A706					
WELDED WIRE FABRIC	ASTM A1064					
PORTLAND CEMENT	ASTM C 150					
FLY ASH	ASTM C 618, 15% MAX					
CONCRETE AGGREGATES	ASTM C 33, 3/4" MAX AGG. SIZE.					
EPOXY - THREADED ROD ANCHORS	HILTI HIT-HY 200 A OR SIMPSON SET 3G					
EPOXY - REINFORCING BARS	HILTI HIT-HY 200 R OR SIMPSON SET 3G					
REBAR CONDITION	MINIMUM CONCRETE COVER					
FORMED SURFACES EXPOSED TO GROUND OR WEATHER	2"					
UNFORMED SURFACE IN CONTACT WITH THE GROUND	3"					
WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER	1"					
INTERIOR BEAMS AND COLUMNS (TO TIES OR STIRRUPS)	1 1/2"					
CONCRETE MIX DESIGN REQUIREMENTS						
CONCRETE USE	WEIGHT	28 DAY f'c	CEMENT TYPE	MAX W/C RATIO	SLUMP (+/- 1")	% AIR
FOOTINGS/PIERS	NW	3500 psi	I/II	0.55	5"	6% MAX
FOUNDATION WALLS	NW	3500 psi	I/II	0.50	4"	6% +/- 1%
INT. SLAB-ON-GRADE	NW	4000 psi	I/II	0.45	5"	3% MAX
ELEVATED SLABS	NW	5000 psi	I/II	0.45	5"	1.5% +/-
TILT-UP WALLS	NW	4000 psi	I/II	0.45	4"	5% +/- 1.5%
CONCRETE SLAB SPECIFICATIONS						
FLOOR FLATNESS, F _F	SOV: 35 MLV: 25					
FLOOR LEVELNESS, F _L	SOV: 24 MLV: 17					

SHEET LIST - STRUCTURAL

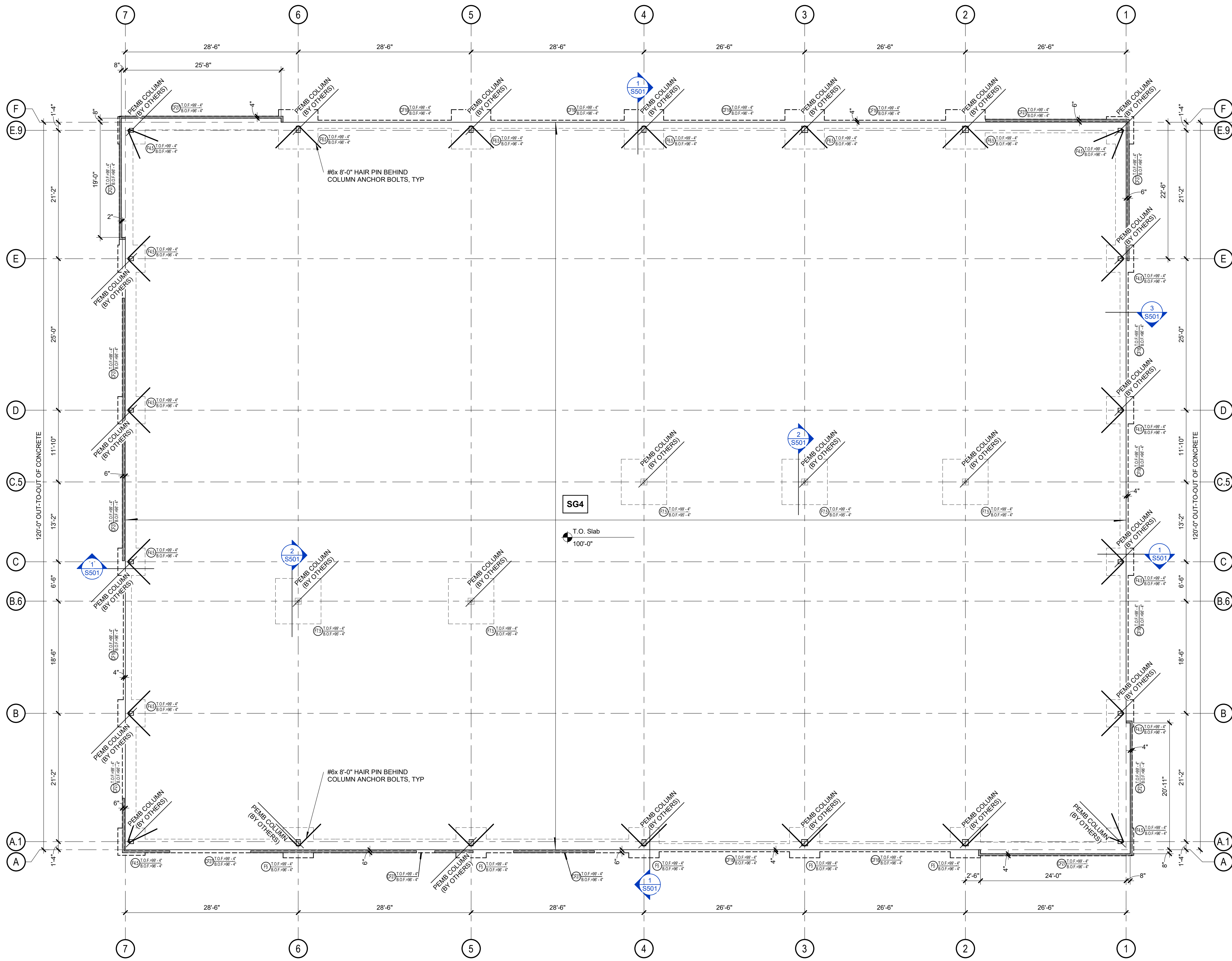
SHEET NUMBER	SHEET NAME
S100	GENERAL NOTES AND SPECIFICATIONS
S110	SPECIAL INSPECTIONS
S200	FOUNDATION PLAN
S500	TYPICAL FOUNDATION DETAILS
S501	TYPICAL FOUNDATION DETAILS

a new development for
D-Bats
520 NE Town Centre Drive
LEE'S SUMMIT, MO

date
Issue Date
drawn by
JMB
checked by
BDC
revisions



sheet number
S100
drawing type
Project Status
project number
Project Number



- PLAN NOTES - FOUNDATIONS**
1. PROVIDE CONTROL JOINTS (1/4 SLAB DEPTH) AT 10'-0" OC BOTH WAYS, NOT SHOWN FOR CLARITY.
 2. CONTRACTOR TO VERIFY ALL FOUNDATION ELEVATIONS AND STEPS PER SITE CONDITIONS.
 3. TOP OF SLAB ELEVATION SHOWN IN PLAN IS FOR REFERENCE ONLY.
 4. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL OPENING DIMENSIONS, EXTERIOR FINISHES AND ADDITIONAL NOTES.
 5. REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL FOUNDATION SPECIFICATIONS.
 6. CONTRACTOR TO CONTACT APEX ENGINEERS, INC AT LEAST 48 HRS IN ADVANCE OF ANY CONCRETE POUR.
 7. ■■■■ INDICATES STONE FACADE, REF ARCH.

SCHEDULE - PAD FOOTING

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
F4.5	4'-6"	4'-6"	3'-0"	(12) #5 EACH WAY ((6) AT T&B)
F5	5'-0"	5'-0"	3'-0"	(14) #5 EACH WAY ((7) AT T&B)
F6.5	6'-6"	6'-6"	3'-0"	(18) #5 EACH WAY ((9) AT T&B)
F7.5	7'-6"	7'-6"	4'-0"	(26) #5 EACH WAY ((13) AT T&B)

SCHEDULE - CONTINUOUS FOOTING

MARK	WIDTH	DEPTH	LONG BARS	TRANS BARS
CF16	1'-4"	36"	(4) #4 CONT ((2) AT T&B)	#3 TIES AT 18" OC
CF27	2'-3"	36"	(4) #4 CONT ((2) AT T&B)	#3 TIES AT 18" OC

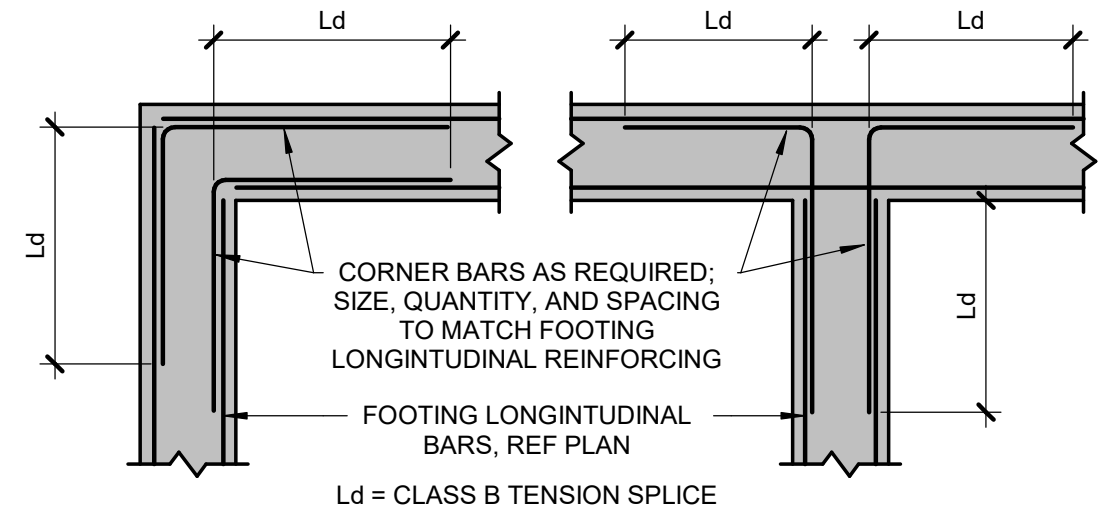
SCHEDULE - SLAB ON GRADE

MARK	SLAB THICKNESS	WEIGHT CLASS	SLAB REINFORCING	ADDITIONAL REQUIREMENTS
SG4	4"	NW	#3 AT 18" OC EA WAY OR 6X6 W2.9XW2.9 WWF	10 MIL VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK

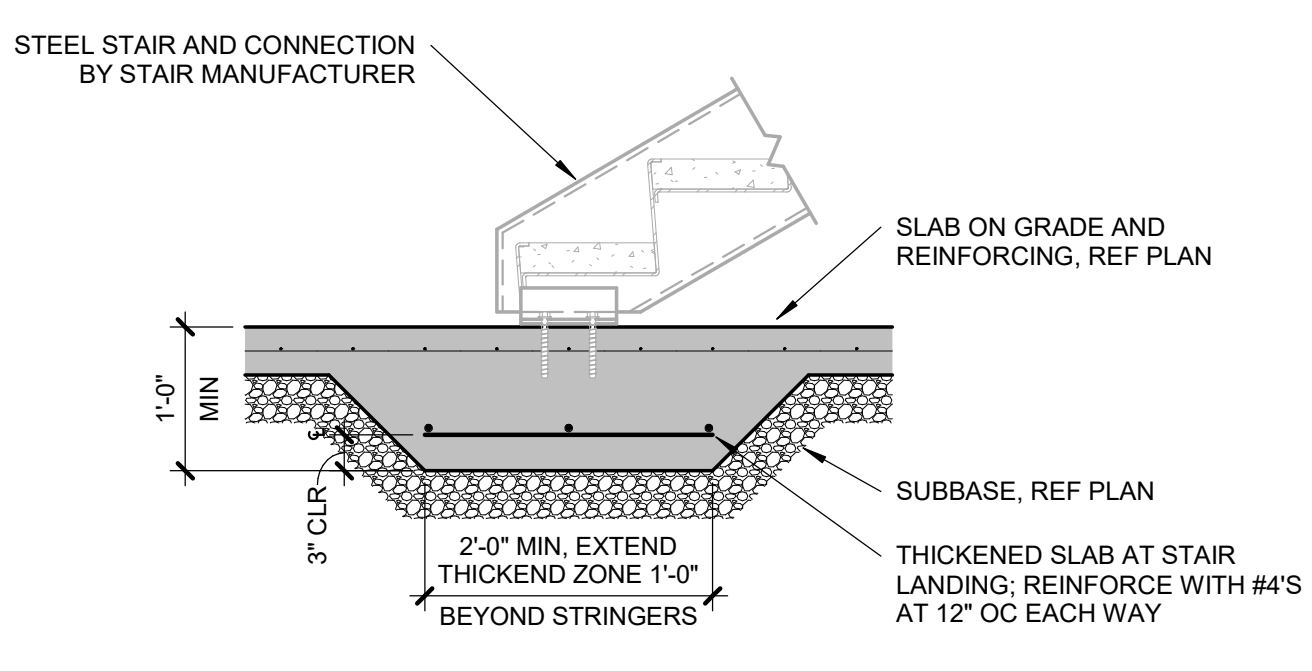
KEYNOTE LEGEND

KEYNOTE	COMMENT

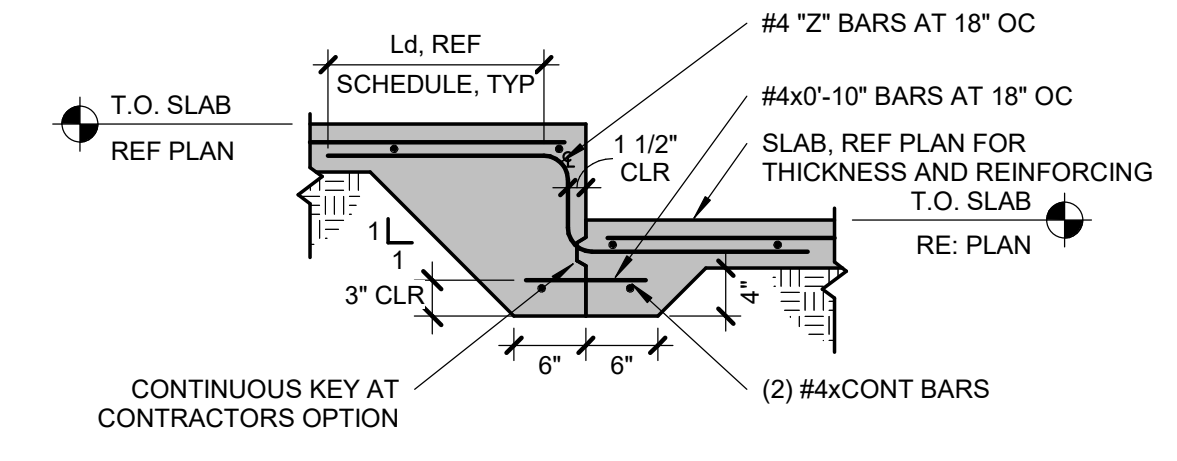
FOUNDATION PLAN
1/8" = 1'-0"



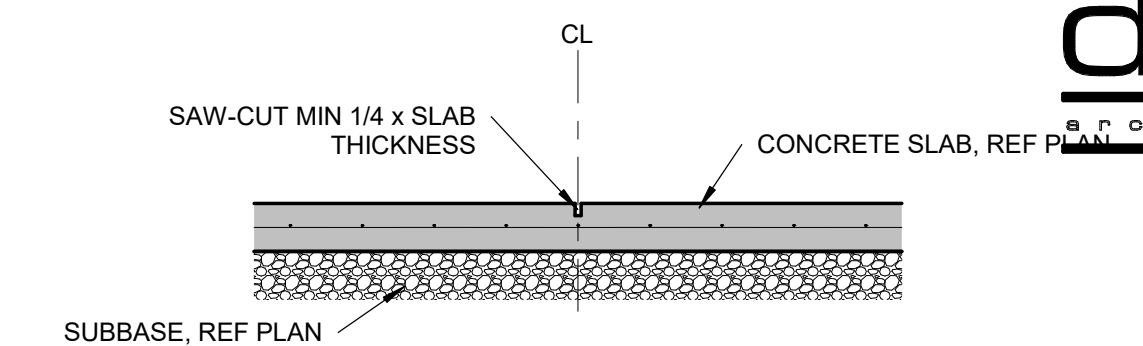
16 TYP FOUNDATION CORNER DETAIL
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



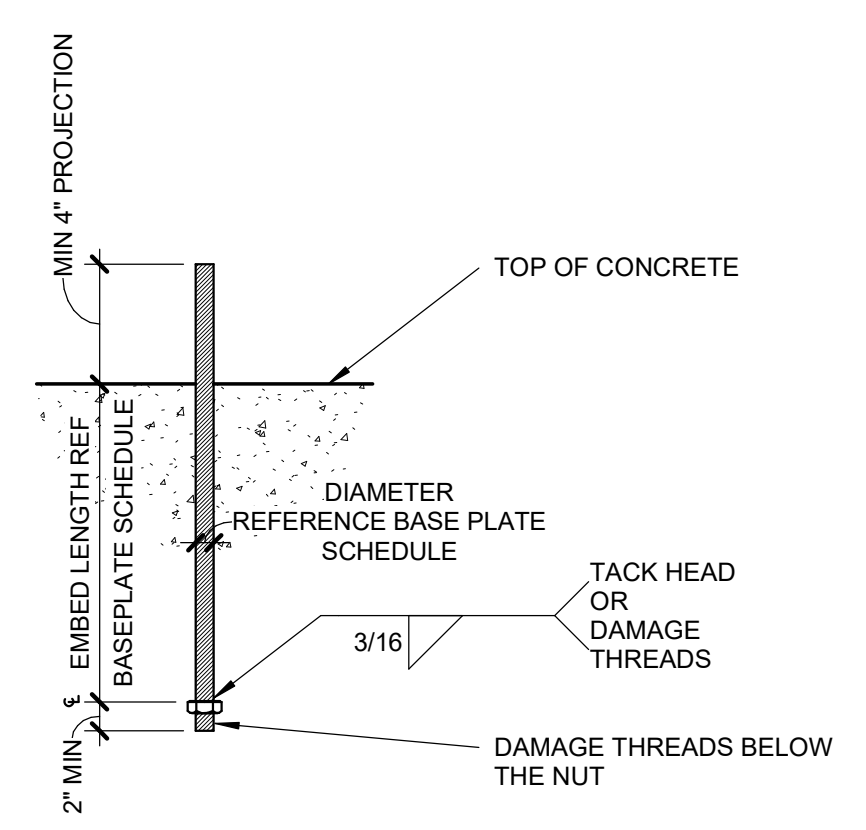
12 TYPICAL THICKENED SLAB AT STEEL STAIR LANDING
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



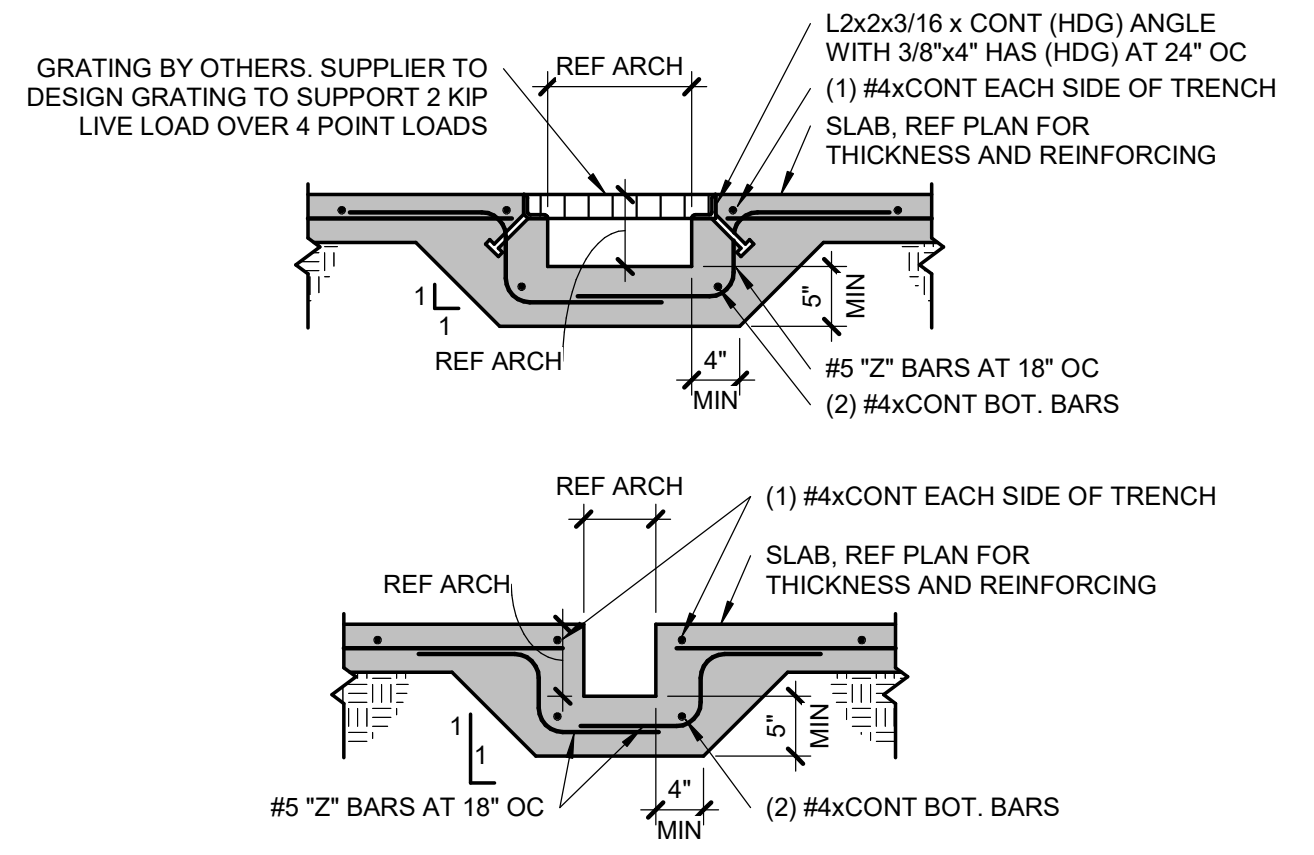
8 TYP CONCRETE SLAB ON GRADE STEP
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



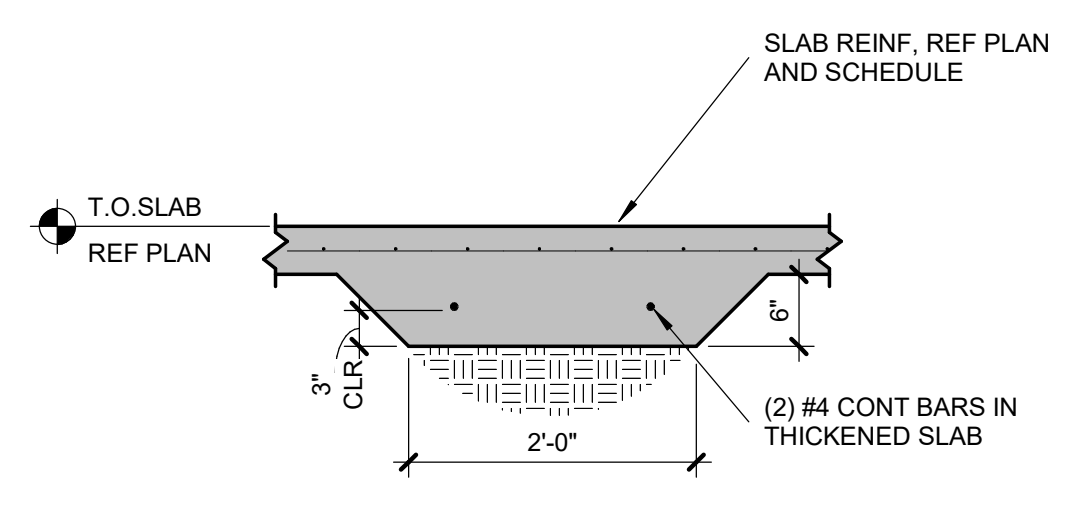
4 SLAB ON GRADE CONTROL JOINT
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



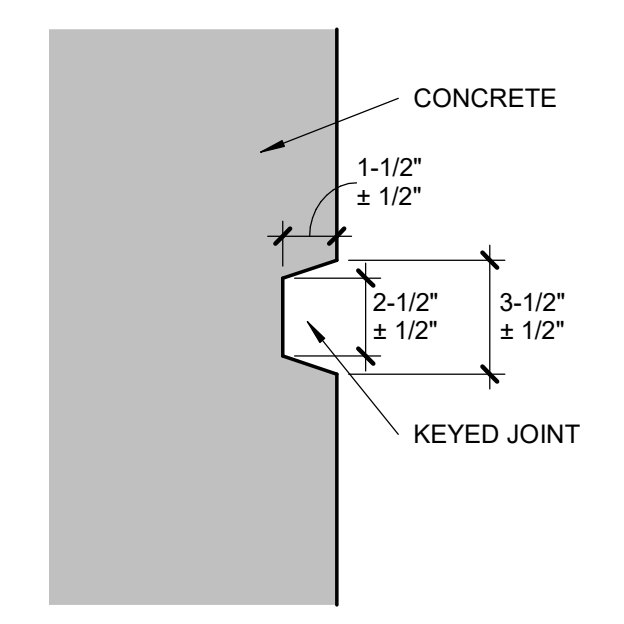
14 TYP ANCHOR BOLT
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



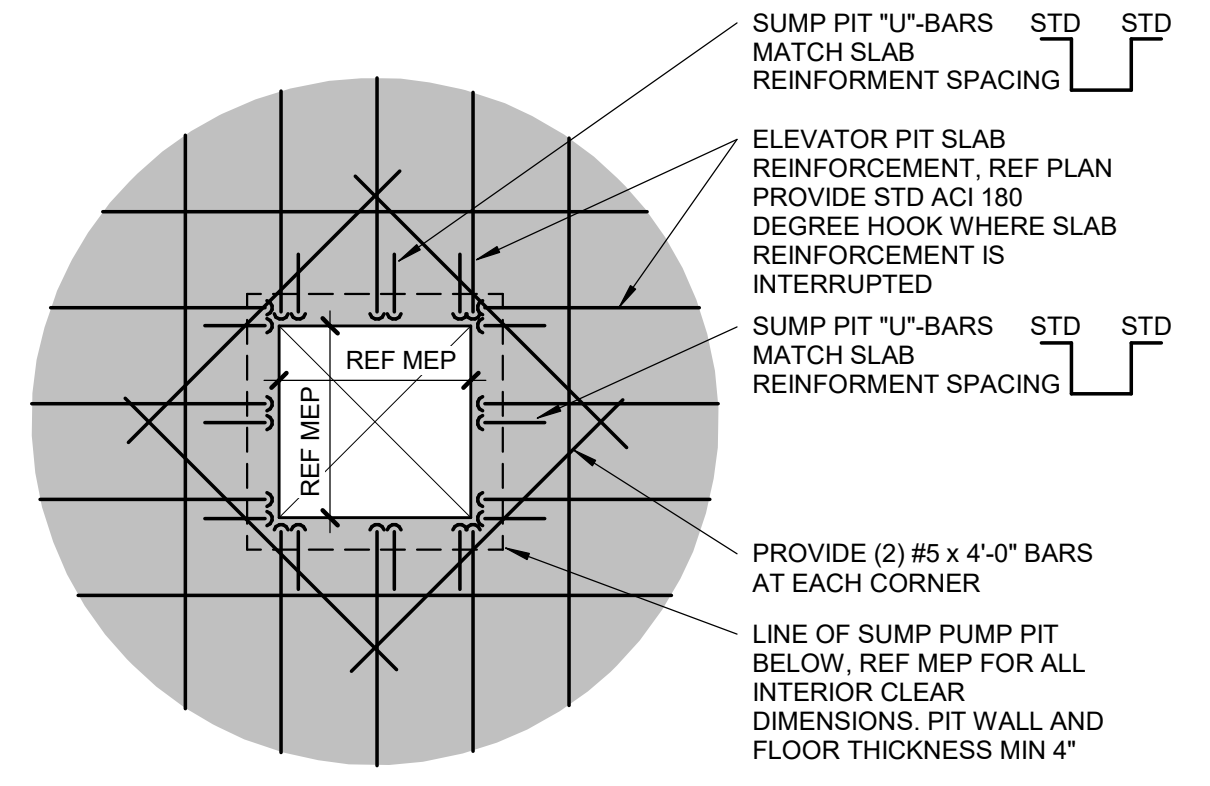
11 TYP SLAB AT TRENCH
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



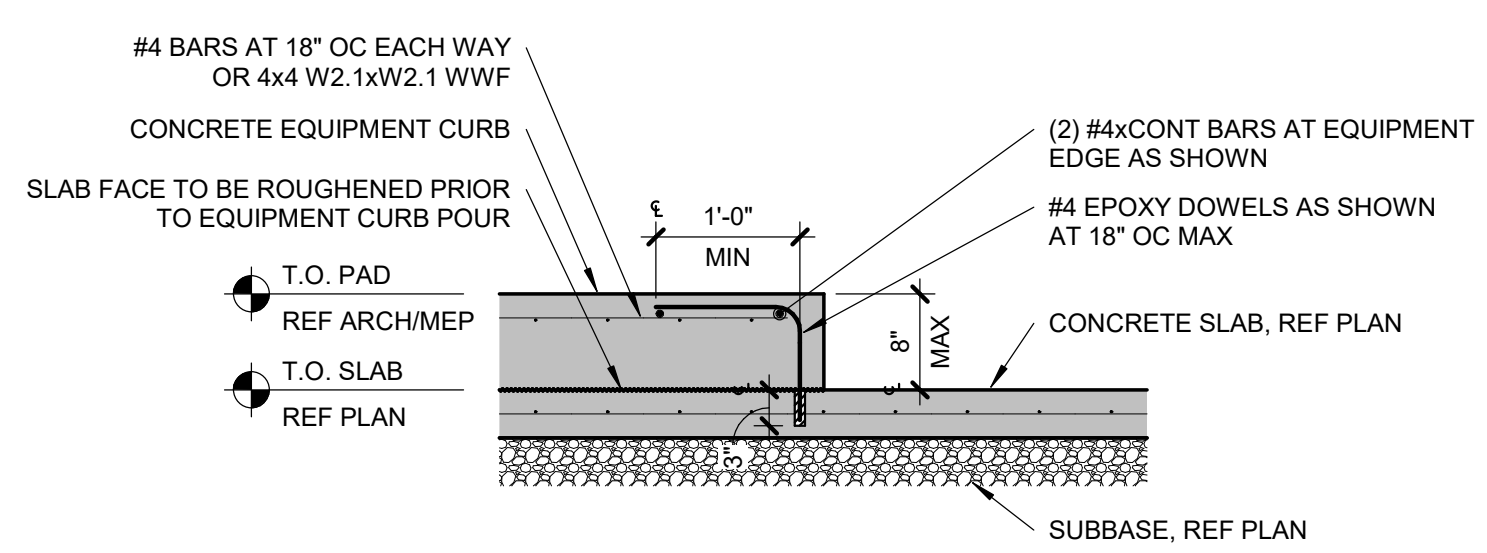
7 TYPICAL THICKENED SLAB ON GRADE
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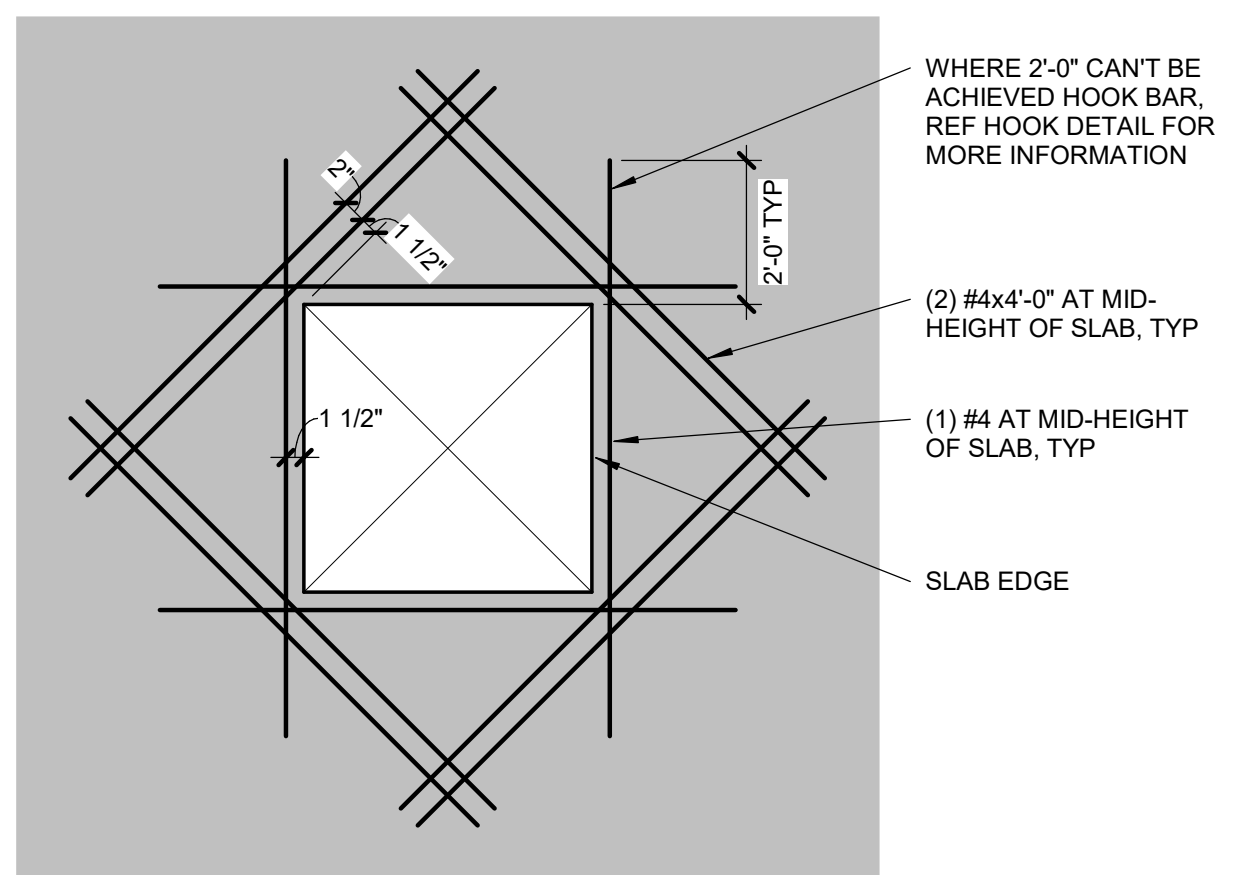
3 TYP KEY IN CONCRETE
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



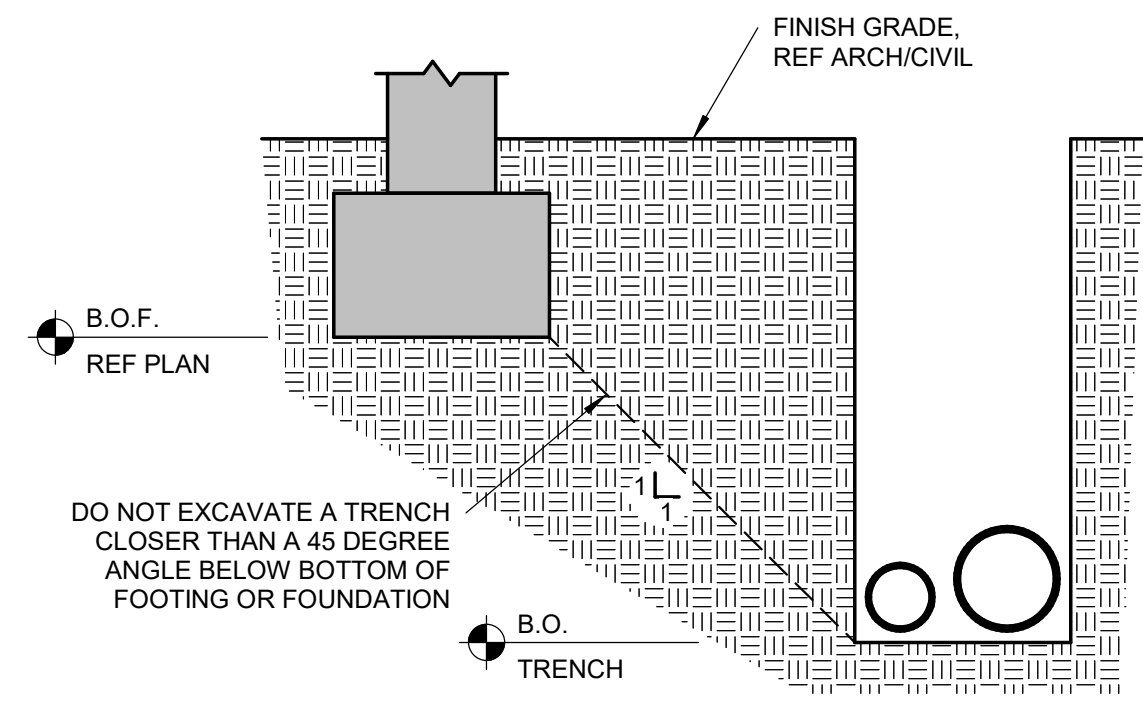
15 TYPICAL SUMP PIT REINFORCEMENT
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



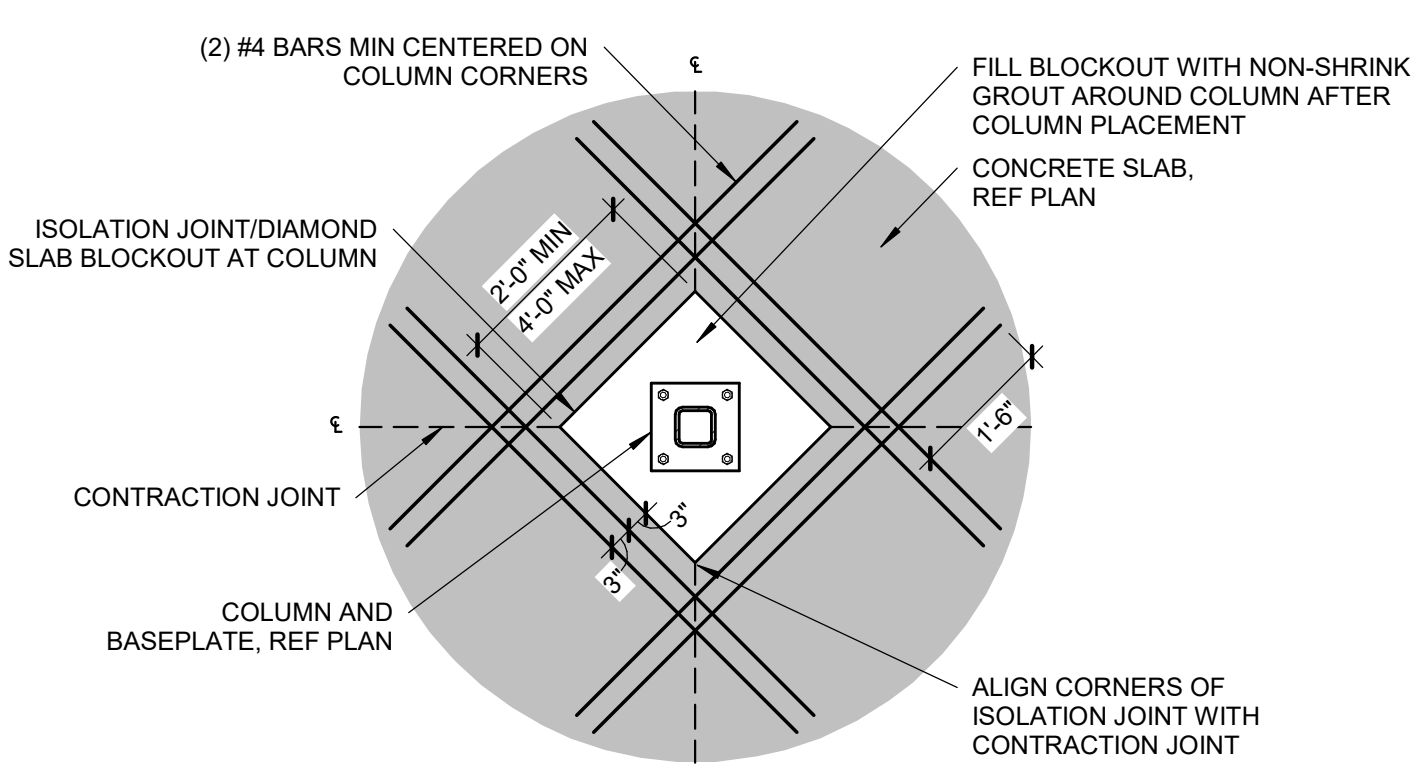
10 TYPICAL SOG EQUIPMENT PAD
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



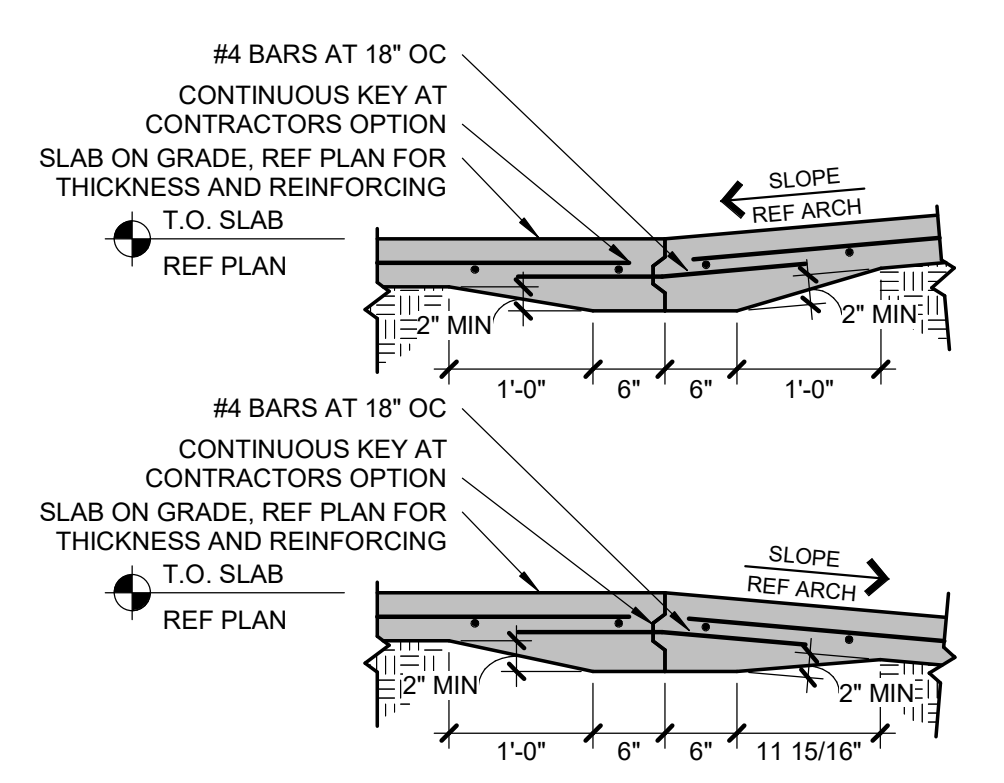
6 TYP OPENING IN CONCRETE SLAB ON GRADE
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



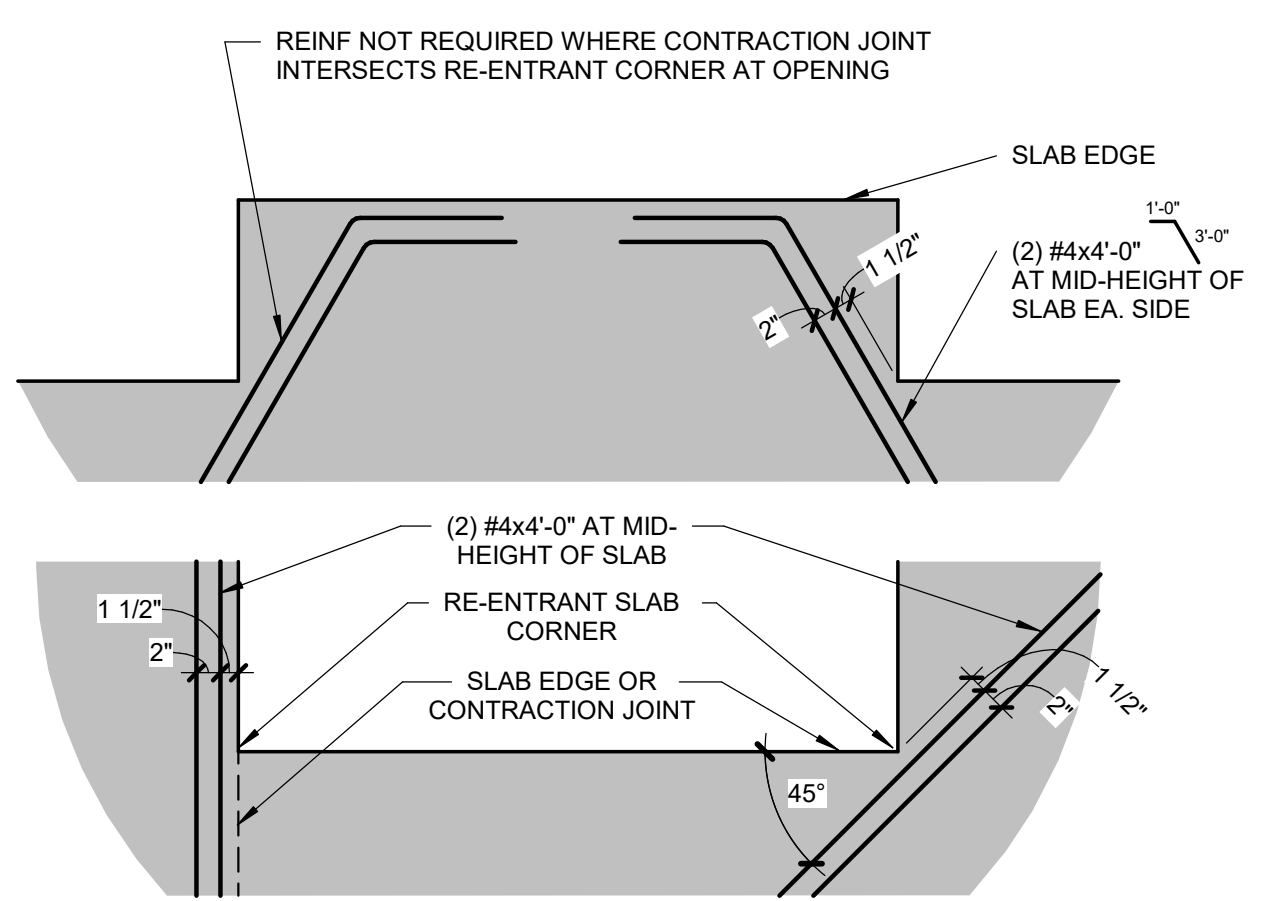
2 MAXIMUM SLOPE BETWEEN FOUNDATION AND TRENCH
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



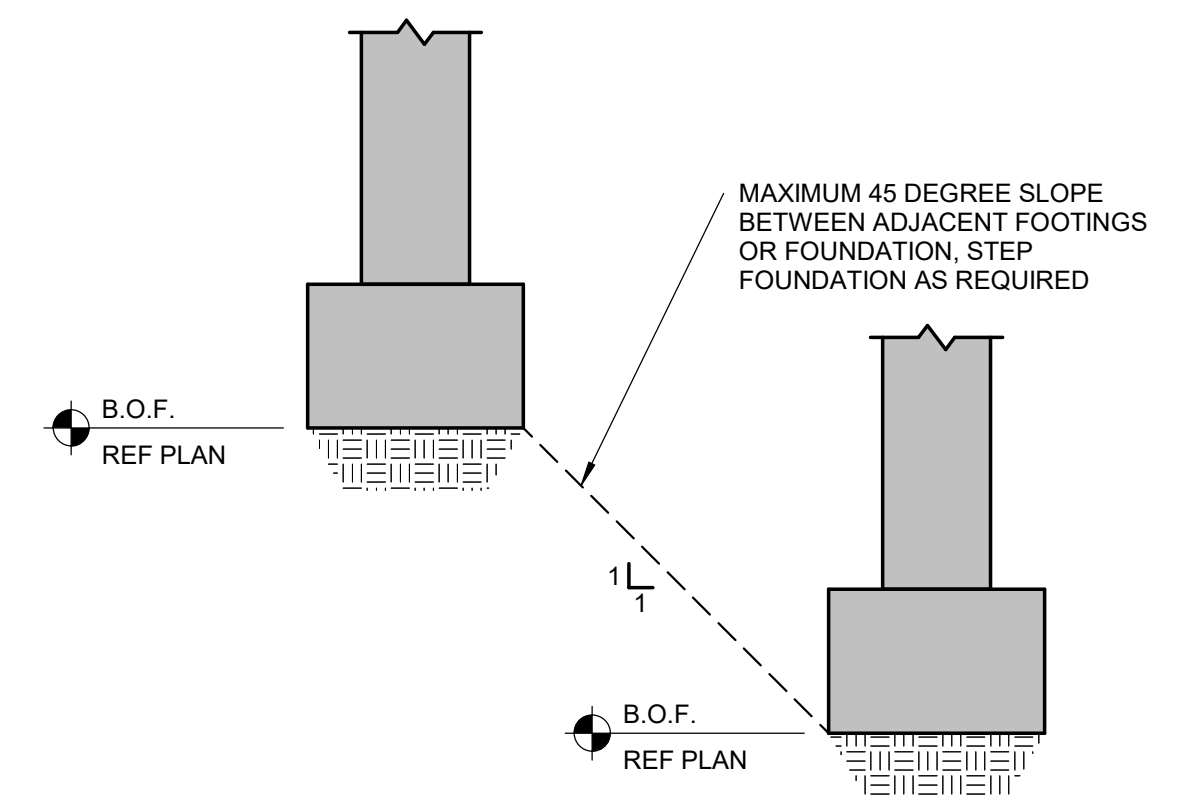
13 TYP COLUMN ISOLATION JOINT
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



9 SLAB ON GRADE AT RAMP
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



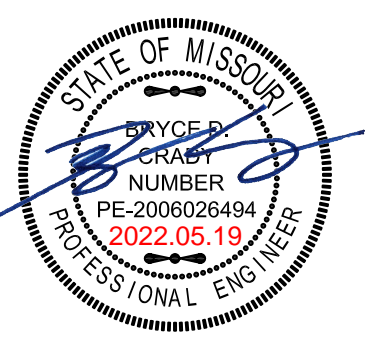
5 TYP RE-ENTRANT CORNER IN CONCRETE SLAB
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



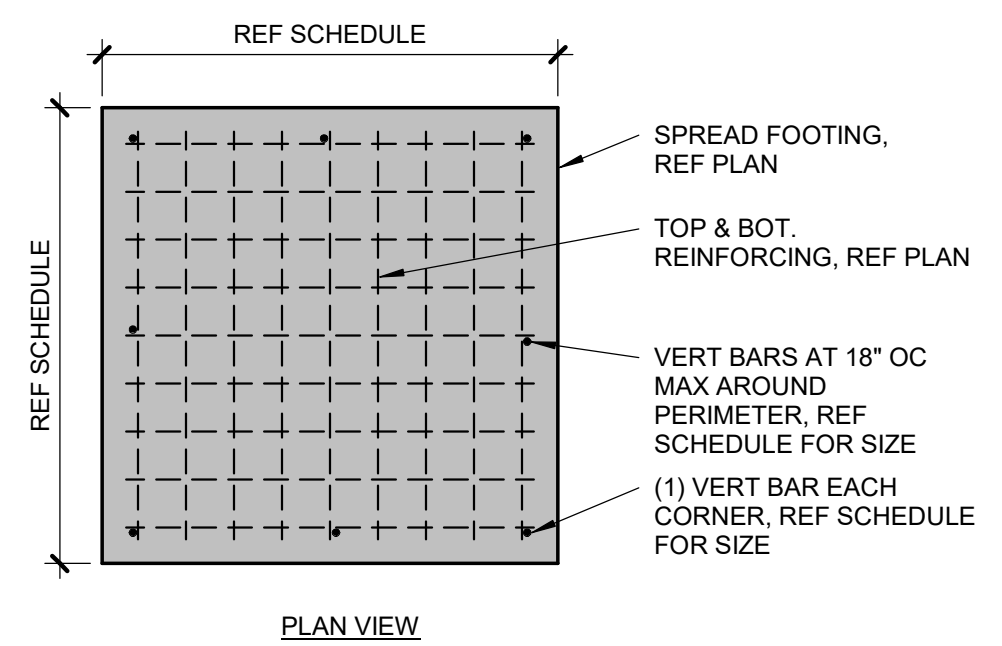
1 MAXIMUM SLOPE BETWEEN ADJACENT FOUNDATIONS
S500 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS

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D-Bats
520 NE Town Centre Drive
LEE'S SUMMIT, MO

date
Issue Date
drawn by
JMB
checked by
BDC
revisions

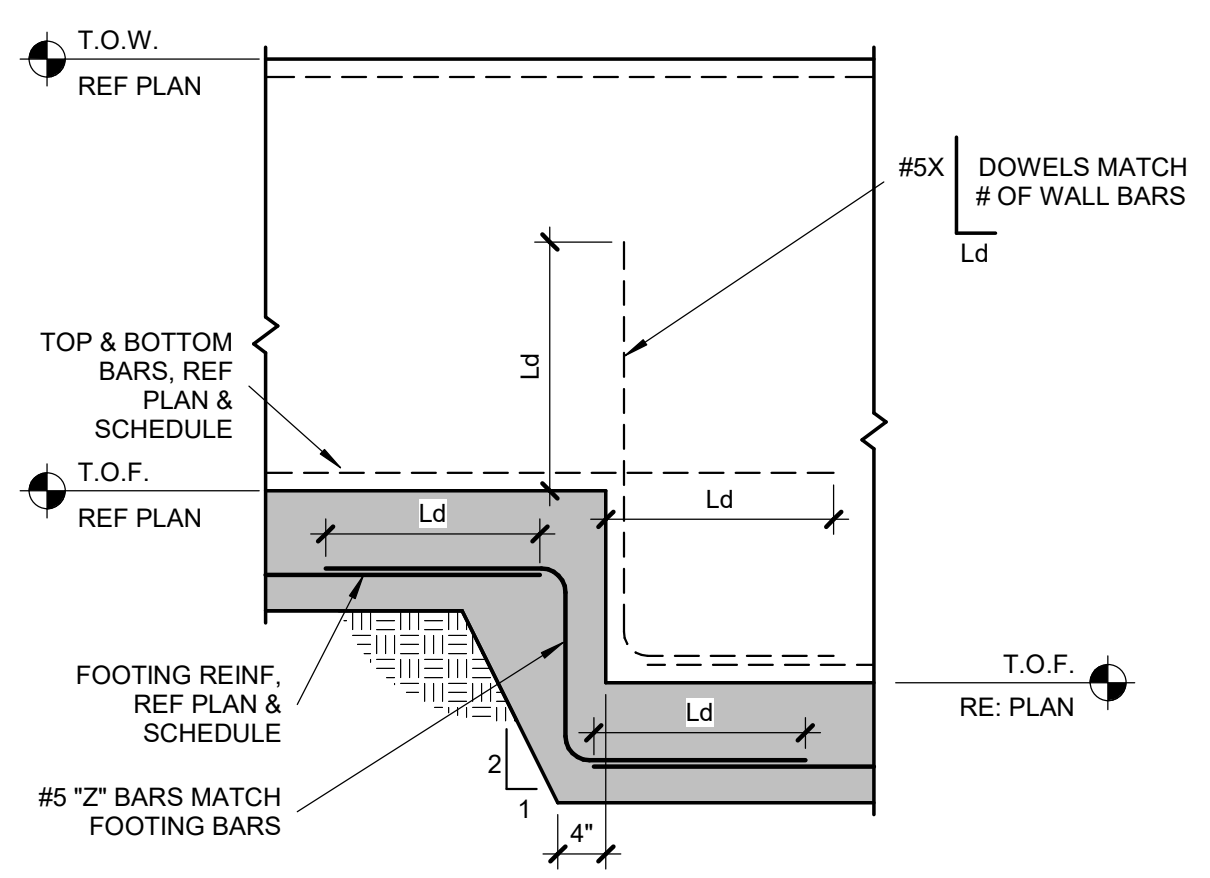


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S500
drawing type
Project Status
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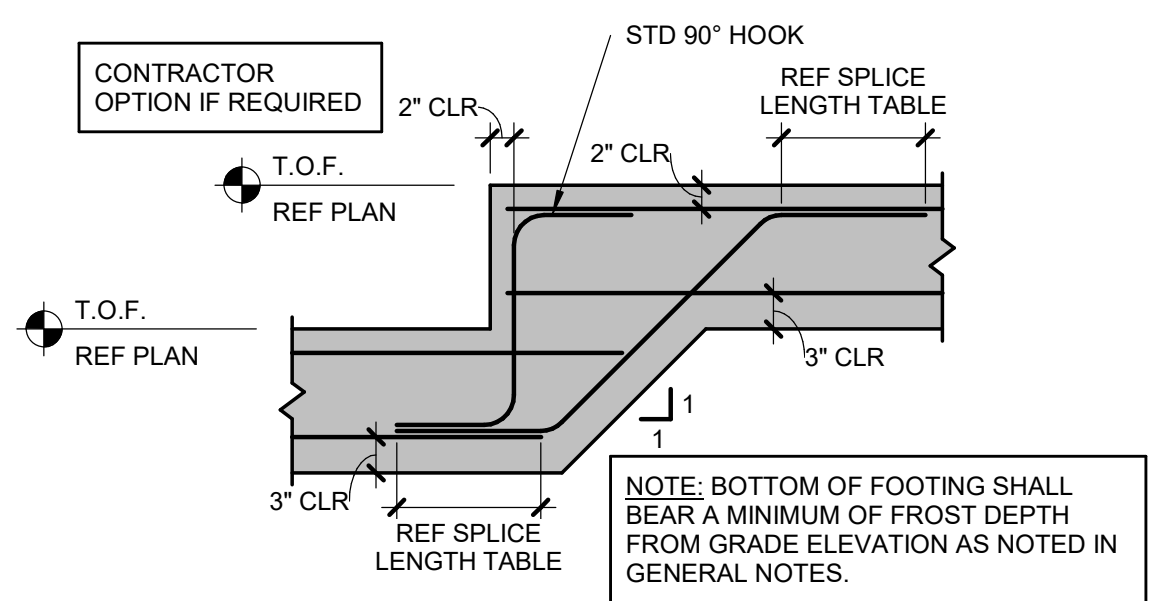
9 TYP DEEP SPREAD FOOTING VERTICAL REINFORCING

S501 3/4" = 1'-0"



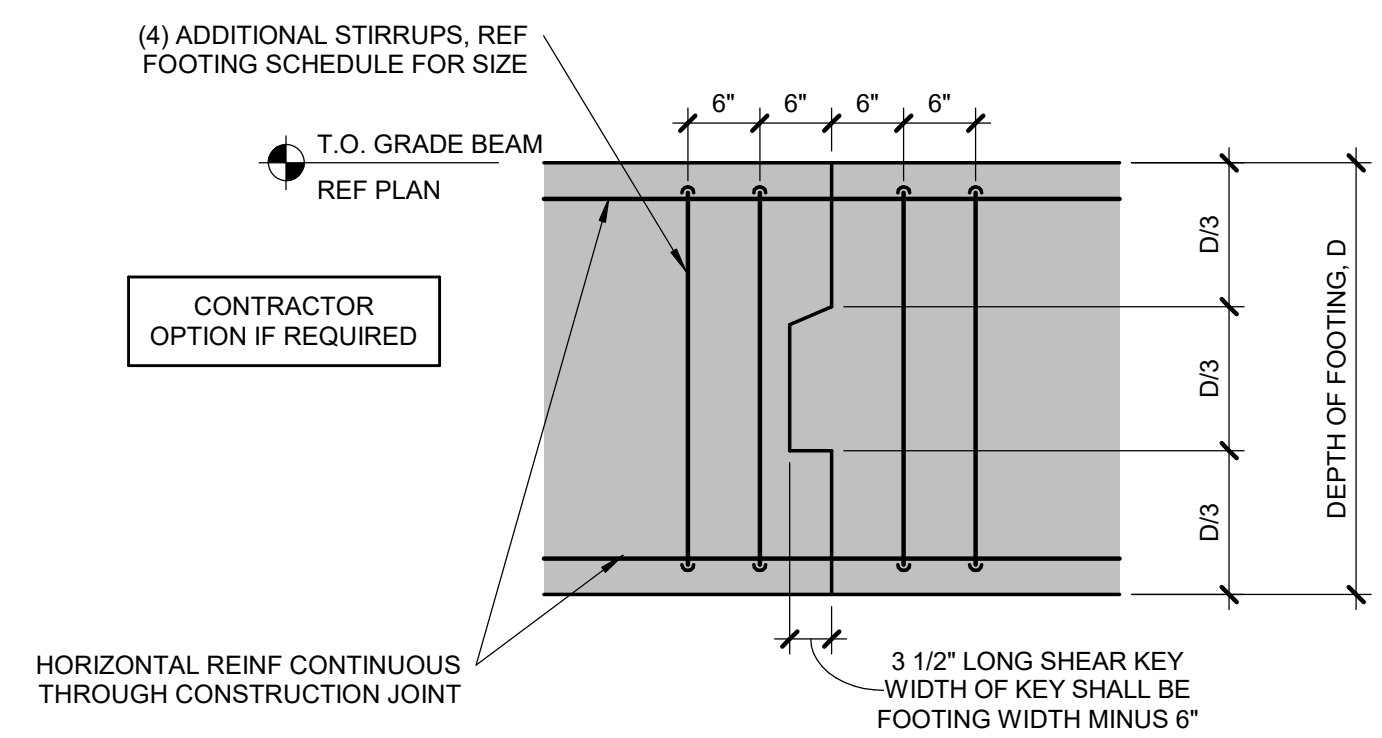
8 FOUNDATION WALL FOOTING STEP

S501 3/4" = 1'-0"



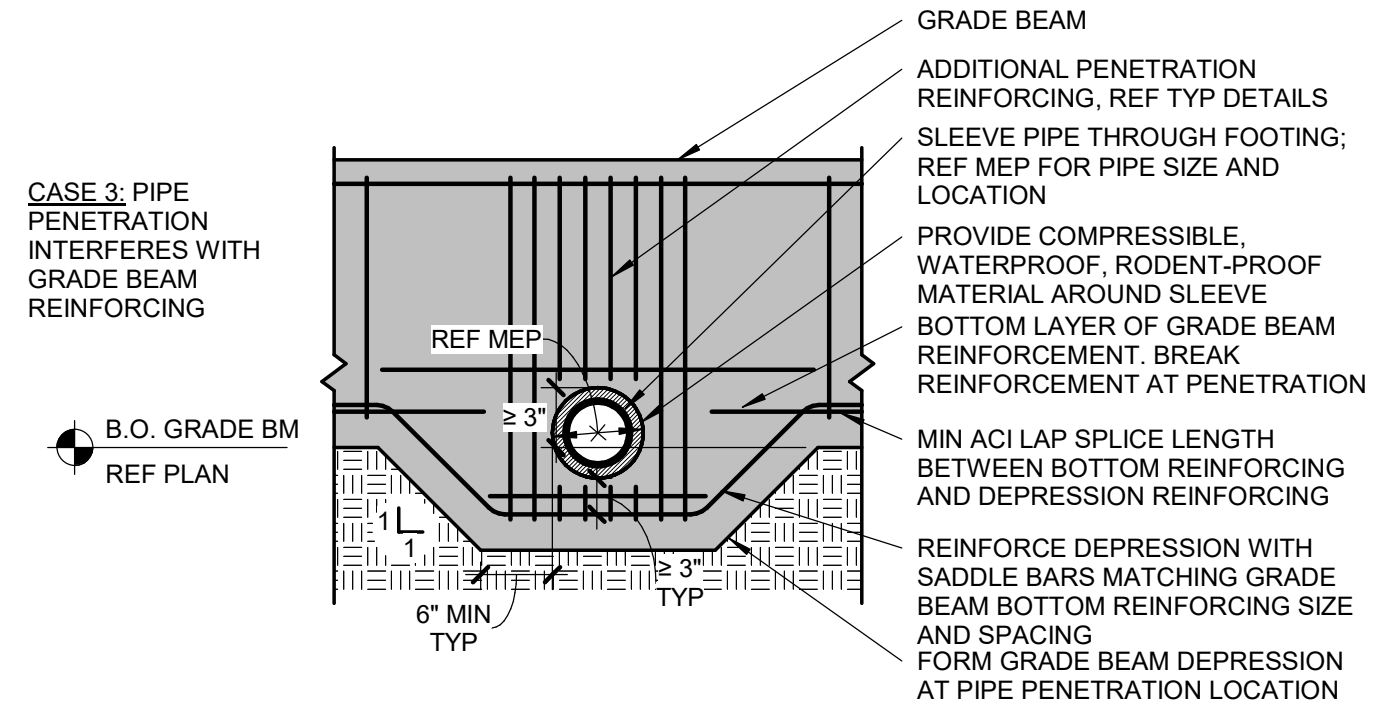
7 TYP FOOTING STEP

S501 3/4" = 1'-0"



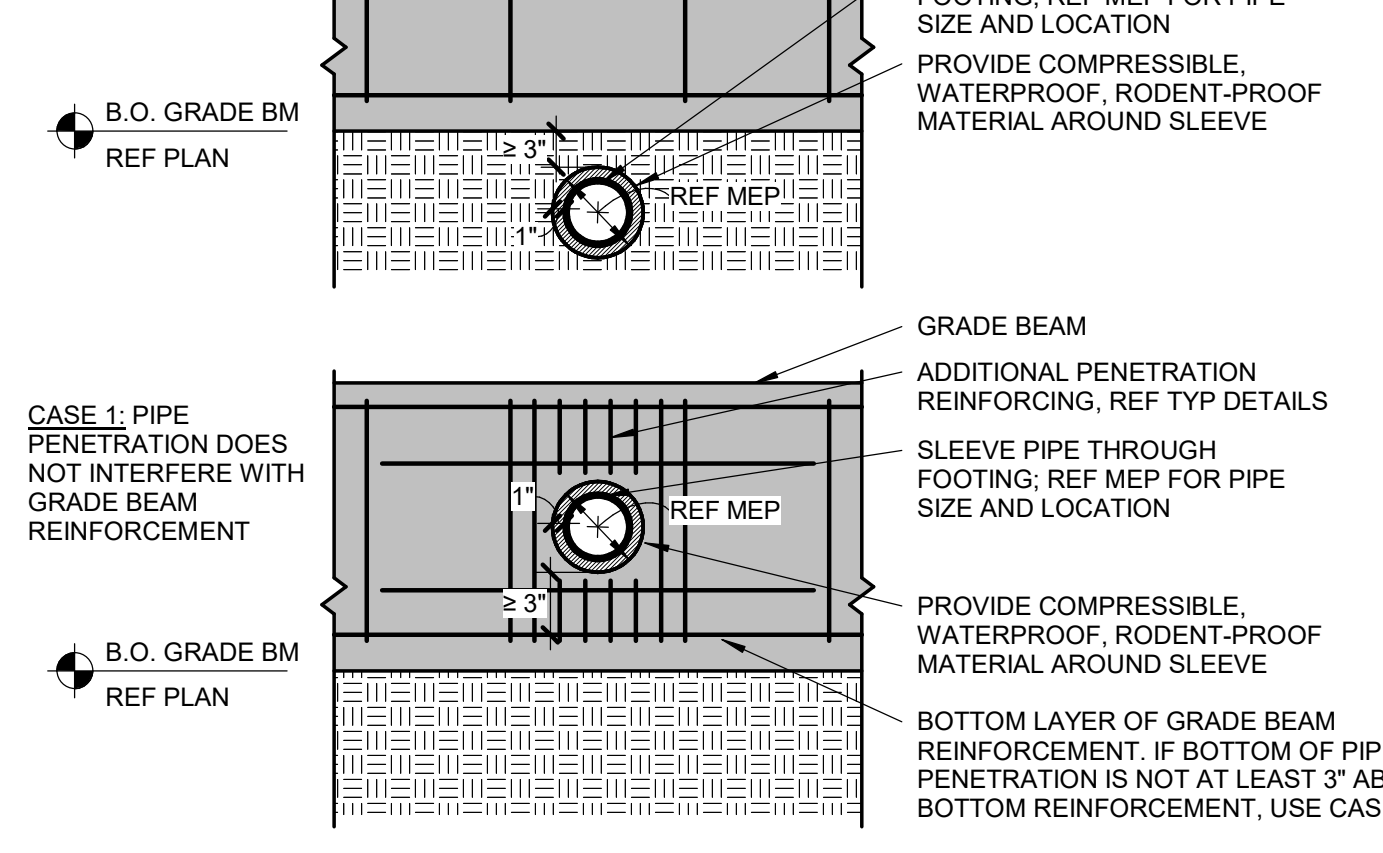
6 TYP GRADE BEAM CONSTRUCTION JOINT

S501 3/4" = 1'-0"



5 GRADE BEAM AT PIPE PENETRATION

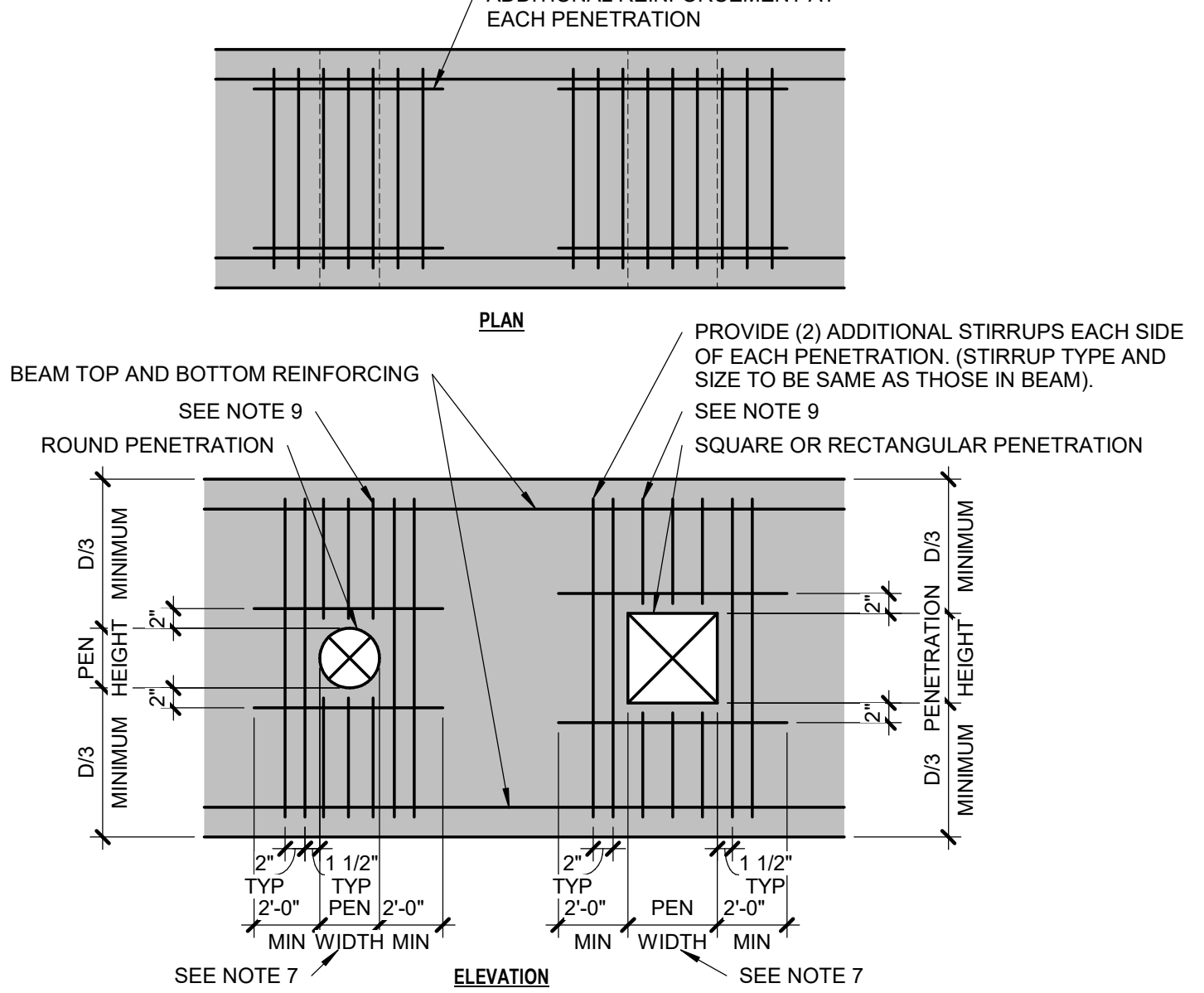
S501 3/4" = 1'-0"



5 GRADE BEAM AT PIPE PENETRATION

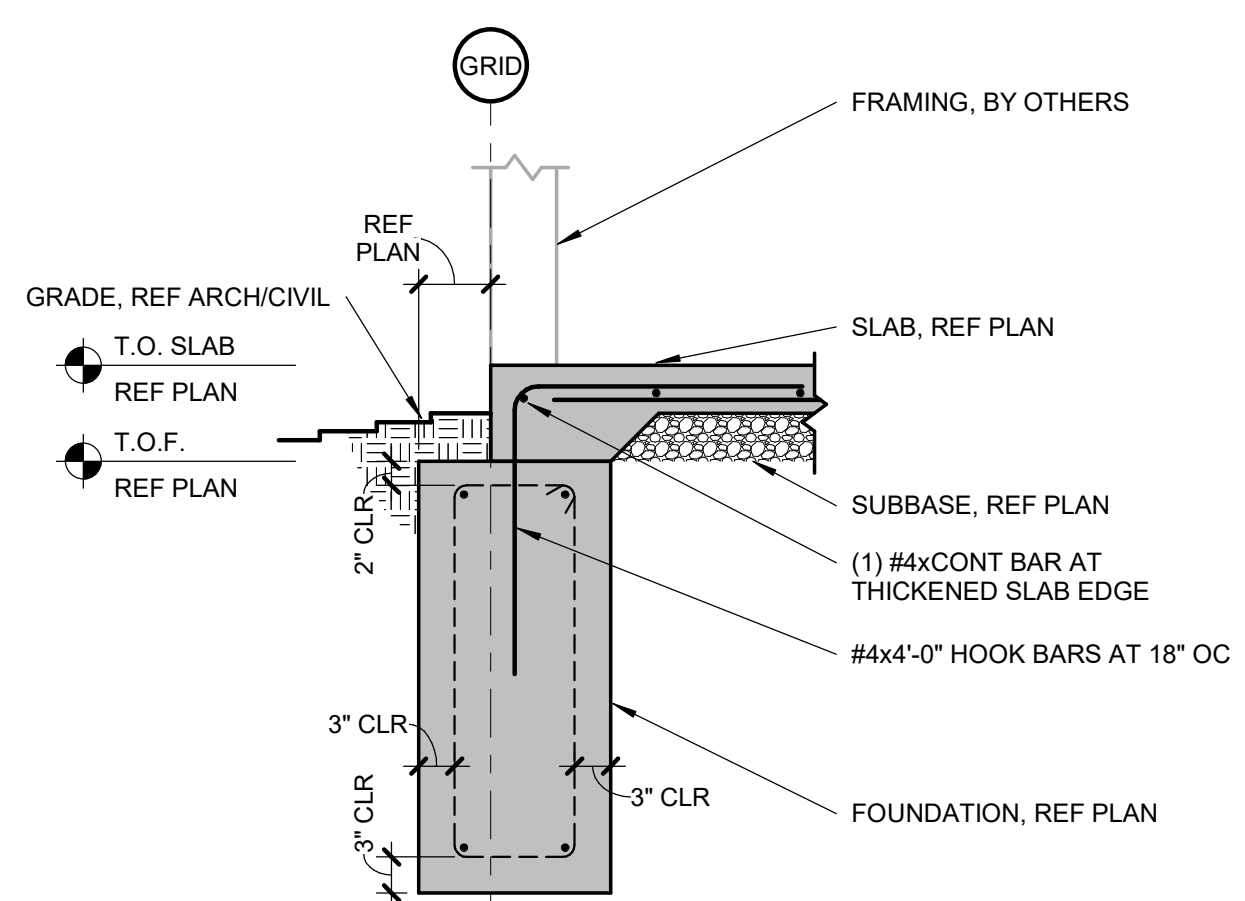
S501 3/4" = 1'-0"

- NOTES:**
- CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
 - WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
 - "D" DENOTES THE DEPTH OF BEAM.
 - CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
 - PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
A. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
B. FOR BEAMS SUPPORTING INTERSECTING BEAMS: CHECK WITH STRUCTURAL ENGINEER AT EACH SLEEVE, UNLESS REQUIRED OTHERWISE BY NOTE #7 BELOW, PROVIDE THE FOLLOWING:
• (1) #5 TOP AND BOTTOM AT BEAMS WITH WIDTHS LESS THAN 9".
• (2) #5 TOP AND BOTTOM AT BEAMS WITH (2) LEG STIRRUPS.
• (4) #5 TOP AND BOTTOM AT BEAMS WITH (4) LEG STIRRUPS.
• (N) #5 TOP AND BOTTOM AT BEAMS WITH (N) LEG STIRRUPS.
PENETRATION WIDTH <= PENETRATION DEPTH (UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS).
 - FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
 - PROVIDE ADDITIONAL STIRRUPS AT SPACING NOT TO EXCEED ONE HALF OF THE SCHEDULED STIRRUP SPACING (UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS).
 - SEPARATE THE UTILITIES PASSING THRU SLEEVES / PENETRATIONS TO ADEQUATELY ACCOMMODATE ANY POTENTIAL SWELL FROM THE ON-SITE SOILS.



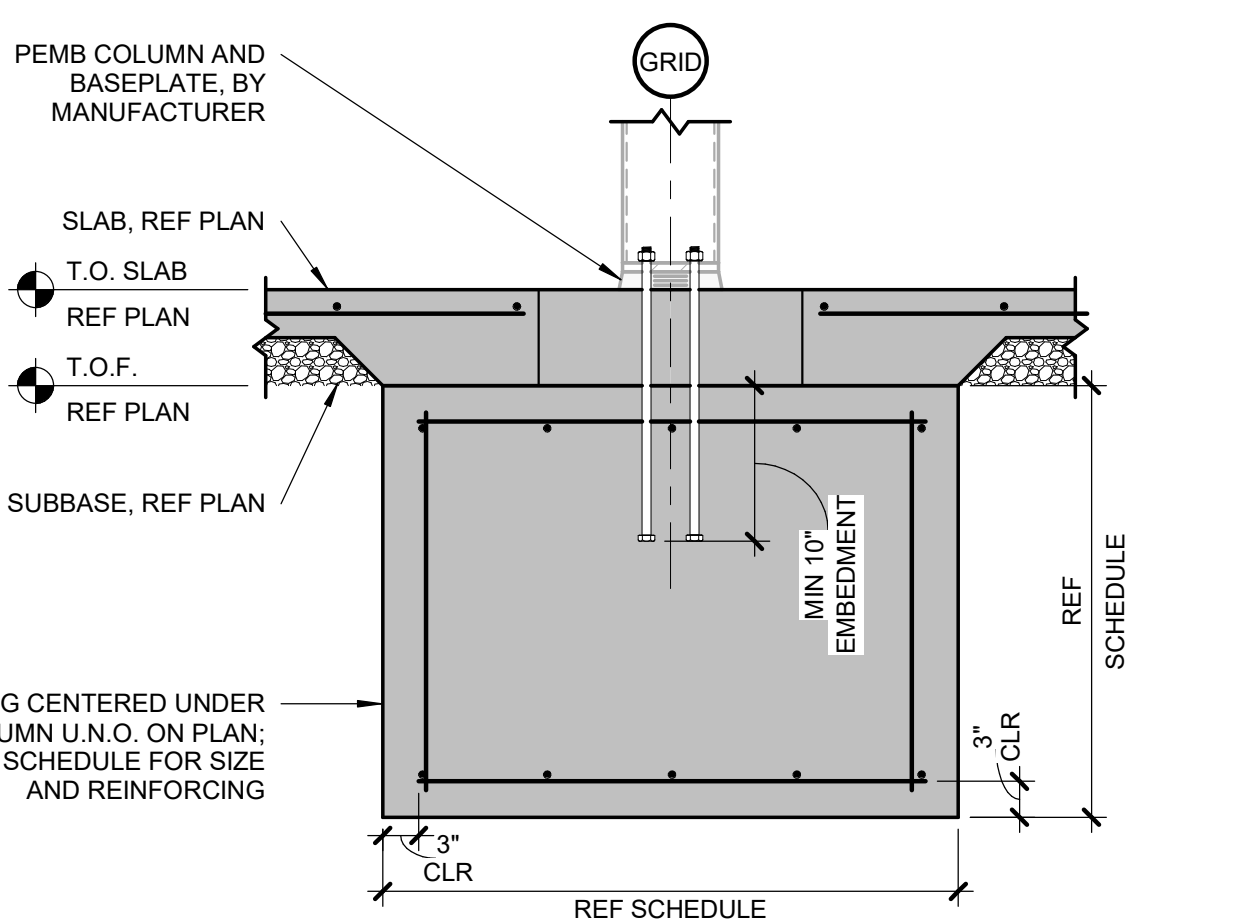
4 GRADE BEAM PIPE SLEEVE

S501 3/4" = 1'-0"



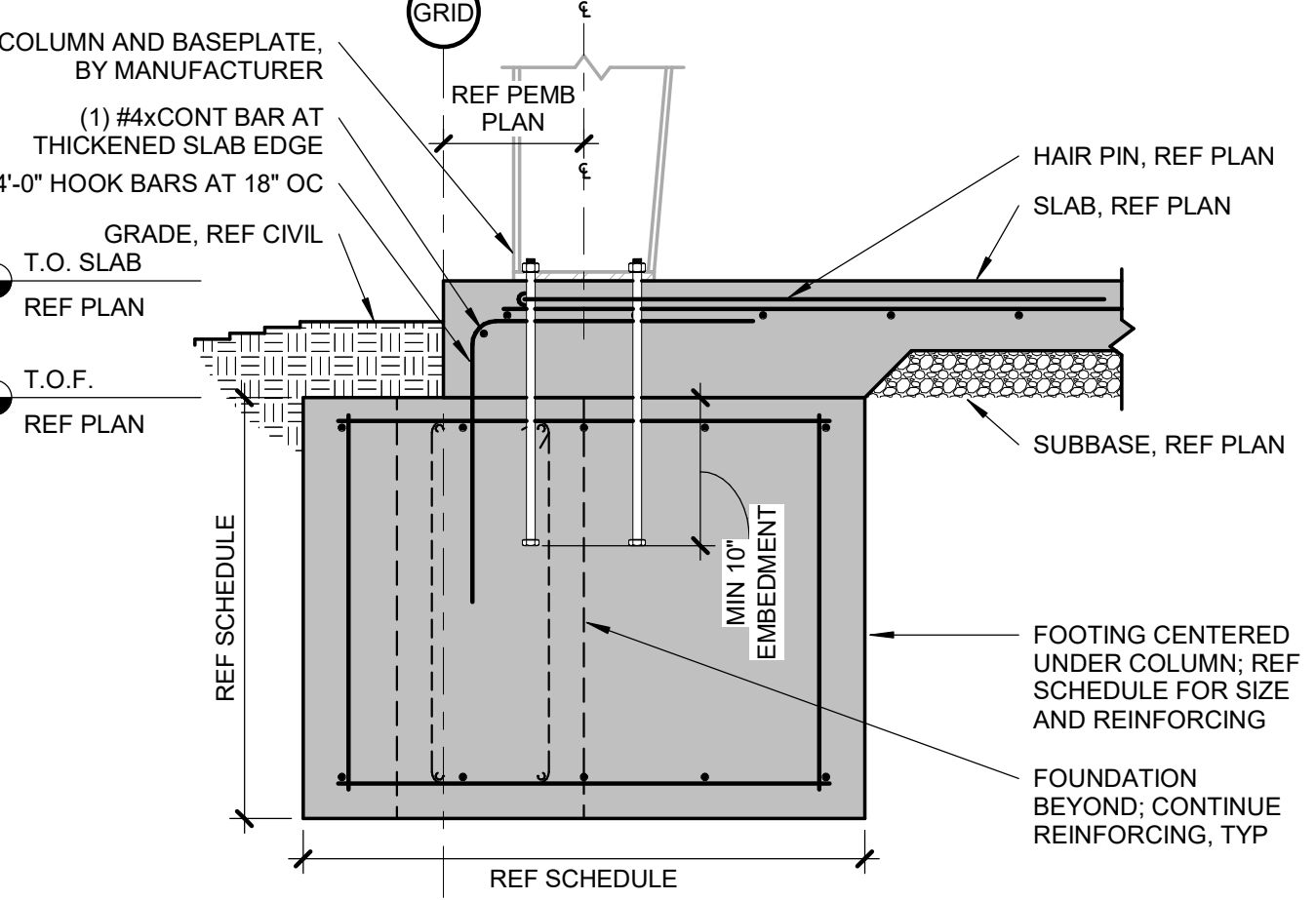
3 WOOD FRAMING ON CONTINUOUS FOOTING

S501 3/4" = 1'-0"



2 PEMB INTERIOR COLUMN SPREAD

S501 3/4" = 1'-0"



1 PEMB EXTERIOR COLUMN ON SLAB WITH CONTINUOUS FOOTING

S501 3/4" = 1'-0"

12/22/2022



PLUMBING GENERAL NOTES:

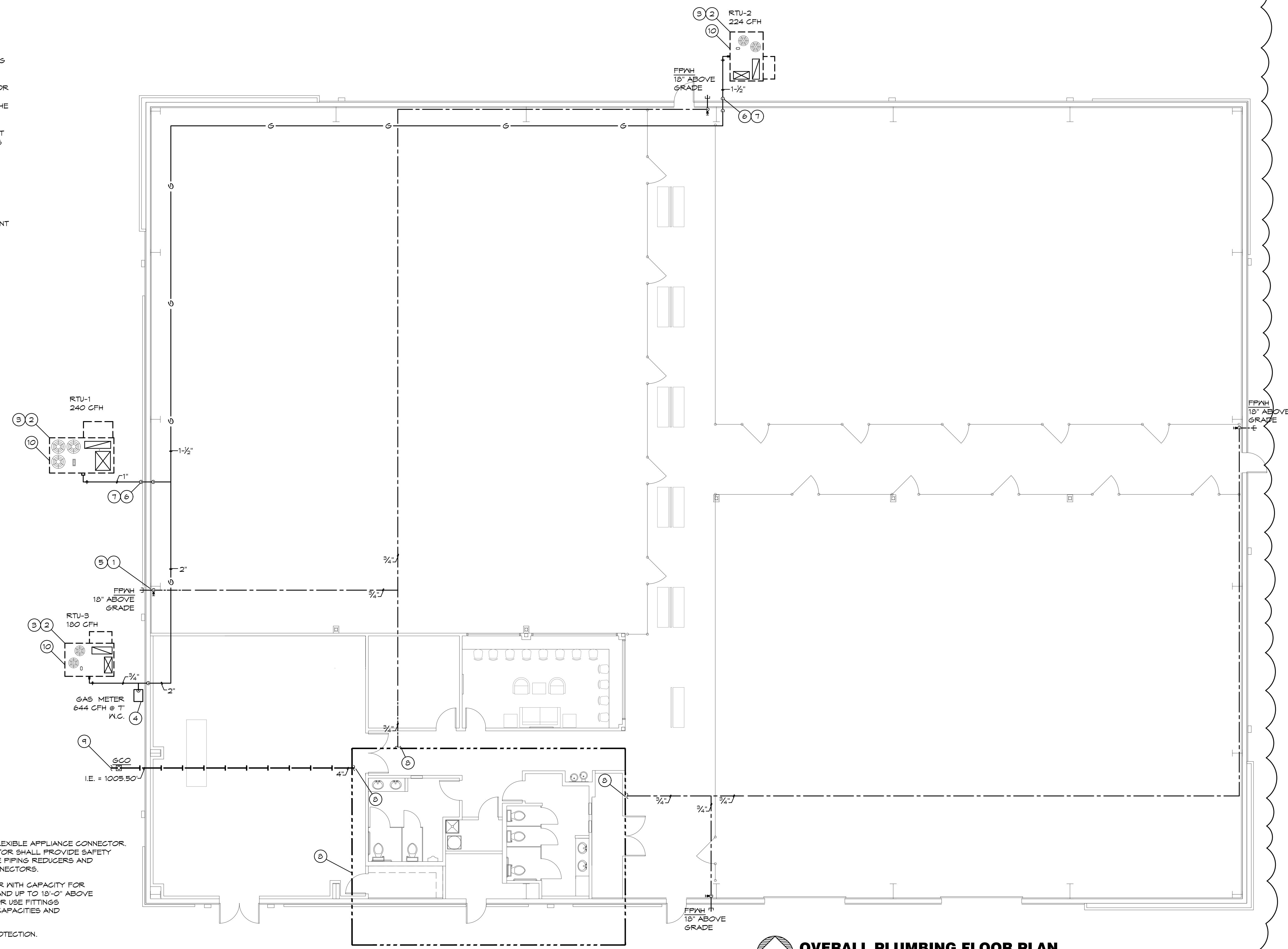
1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
5. PROVIDE 1" SCHEDULE 40 PVC CONDENSATE DRAIN PIPE FOR ROOFTOP UNIT LAID ROUTED TO GRASSY AREA. PROVIDE WATER TRAP AND CLEAN OUTS AS DETAILED. SECURE PVC PIPE TO DRAIN WITH NYLON STRAP.
6. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
7. CONTRACTOR TO TEST WATER PRESSURE ON SITE AND PROVIDE PRESSURE REDUCING VALVE ON WATER SERVICE IF PRESSURE IS OVER 80 PSI.
8. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

PLUMBING SYMBOLS

	SOIL AND WASTE PIPING BELOW FLOOR/GRADE
	SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
	SANITARY VENT PIPING ABOVE GRADE
	SANITARY VENT PIPING BELOW GRADE
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	GAS PIPING
	EQUIPMENT DRAIN LINE
	FIRE LINE
	PIPING TURNING DOWN
	PIPING TURNING UP
	TEE TOP CONNECTION
	UNION
	BACKFLOW PREVENTER
	FLOOR DRAIN
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	GRADE CLEAN OUT
	VALVE
	BALANCING VALVE
	SOLENOID VALVE
	PRESSURE REGULATOR
	CHECK VALVE
	CONNECT TO EXISTING
	I.E. INVERT ELEVATION OF PIPE
	MATCH MARKS ON PLUMBING RISER DIAGRAM

PLUMBING PLAN NOTES:

1. INSTALL WALL HYDRANT 18" ABOVE GRADE / FINISHED FLOOR.
2. CONNECT GAS TO EQUIPMENT AS REQUIRED AND AS DETAILED.
3. ALL APPLIANCE CONNECTIONS SHALL BE MADE WITH UL LISTED FLEXIBLE APPLIANCE CONNECTOR. FLEX CONNECTORS SHALL BE PROVIDED BY TENANT. CONTRACTOR SHALL PROVIDE SAFETY LOCK AND CHAIN AT ALL GAS APPLIANCES ON WHEELS. PROVIDE PIPING REDUCERS AND INCREASERS AS REQUIRED TO MATE HARD PIPING WITH FLEX CONNECTORS.
4. COORDINATE WITH GAS COMPANY FOR INSTALLATION OF A METER WITH CAPACITY FOR 604 CFH @ 1" M.C. ROUTE PIPING UP INSIDE THE EXTERIOR WALL AND UP TO 18'-0" ABOVE FINISHED FLOOR. ALL CONCEALED JOINTS ARE TO BE WELDED OR USE FITTINGS APPROVED FOR CONCEALED USE. VERIFY ALL EQUIPMENT GAS CAPACITIES AND OPERATING PRESSURES PRIOR TO INSTALLATION OF ANY PIPING.
5. ROUTE PIPING ON INTERIOR SIDE OF INSULATION FOR FREEZE PROTECTION.
6. ROUTE GAS PIPE DOWN TO 18" AFF AND PENETRATE EXTERIOR WALL. ROUTE GAS PIPE ABOVE GRADE AND OVER TO RTU AS REQUIRED.
7. COORDINATE WITH G.C. TO SEAL PENETRATION WEATHER TIGHT.
8. SEE ENLARGED PLUMBING PLAN ON SHEET P1.1 FOR CONTINUATION OF PIPING AND PIPING IN THIS AREA.
9. SEE CIVIL PLAN FOR CONTINUATION OF 4" SANITARY SEWER. MAINTAIN MIN 30" COVER.
10. CONNECT CONDENSATE TO RTU AS REQUIRED AND AS DETAILED.



OVERALL PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"
F.F.E. = 1008.50'

BC PROJECT #: 22323
MISSOURI PE COA #2009003629
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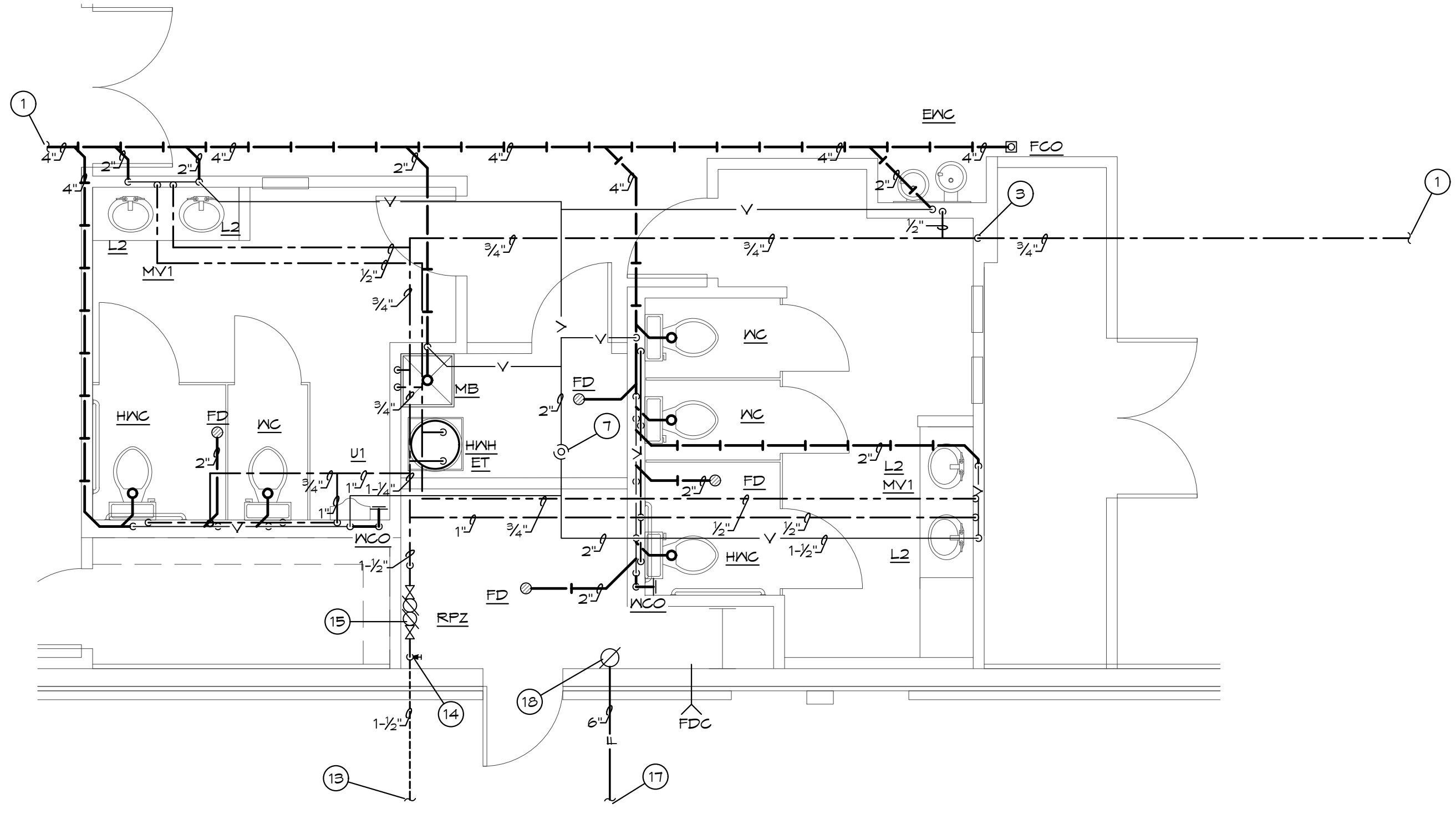
a new development for
Town Centre Lot 1
520 NE Town Centre Drive
Lee's Summit, Missouri 64064

date 05.19.22
drawn by MA/FS
checked by EK/DJS
revisions 12.20.22 REV 1

sheet number
P1.0
drawing type permit
project number 20231

1

- PLUMBING PLAN NOTES:**
- 1 REFER TO SHEET P1.0 FOR CONTINUATION OF PIPING.
 - 2 4" WASTE PIPE DOWN TO FLOOR BELOW. REFER TO ENLARGED FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF PIPING. PROVIDE CLEANOUT AT BASE OF RISER.
 - 3 REFER TO ENLARGED FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF PIPING.
 - 4 1/2" CW UP FROM FLOOR BELOW. REFER TO ENLARGED FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF PIPING.
 - 5 1/2" HW UP FROM FLOOR BELOW. REFER TO ENLARGED FIRST FLOOR PLUMBING PLAN FOR CONTINUATION OF PIPING.
 - 6 NOT USED.
 - 7 LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
 - 8 4" WASTE PIPE DOWN FROM FLOOR ABOVE. REFER TO ENLARGED 2ND FLOOR PLUMBING PLAN FOR CONTINUATION OF PIPING. PROVIDE CLEANOUT AT BASE OF RISER.
 - 9 NOT USED.
 - 10 NOT USED.
 - 11 NOT USED.
 - 12 NOT USED.
 - 13 SEE CIVIL PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC C.W. MAINTAIN MIN 48" COVER.
 - 14 ROUTE PIPING ON INTERIOR SIDE OF INSULATION FOR FREEZE PROTECTION.
 - 15 PROVIDE 1-1/2" RPZ BACKFLOW PREVENTER AND INSTALL 24" A.F.F. 4 6" FROM WALL. ROUTE DRAIN FROM RPZ BFP TO FLOOR DRAIN WITH AN AIR GAP.
 - 16 PROVIDE ICE MAKER BOX WITH VALVE FOR CONNECTION TO REFRIGERATOR BY OTHERS.
 - 17 6" FIRE LINE. SEE CIVIL PLANS FOR CONTINUATION. MAINTAIN A MINIMUM 48" BURY FOR FREEZE PROTECTION.
 - 18 ROUTE 6" FIRE LINE THRU FOUNDATION UP THRU FLOOR 24" AFF AND CAP FOR FUTURE EXTENSION BY SPRINKLER CONTRACTOR.



ENLARGED PLUMBING 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

a new development for
Town Centre Lot 1
520 NE Town Centre Drive
Lee's Summit, Missouri 64064

date 05.19.22
drawn by MA/FS
checked by EK/DS
revisions
12.20.22 REV 1

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project number 20231

PLUMBING FIXTURE BRANCH PIPING SCHEDULE

FIXTURE	WASTE	VENT	GA	HA
WATER CLOSET (TANK TYPE)	4"	2"	1/2"	--
URINAL	2"	1-1/2"	3/4"	--
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
FLOOR DRAIN	2"	2"	--	--
MOP BASIN	2"	2"	1/2"	1/2"
ELECTRIC WATER COOLER (BI-LEVEL)	1-1/2"	1-1/2"	1/2"	--

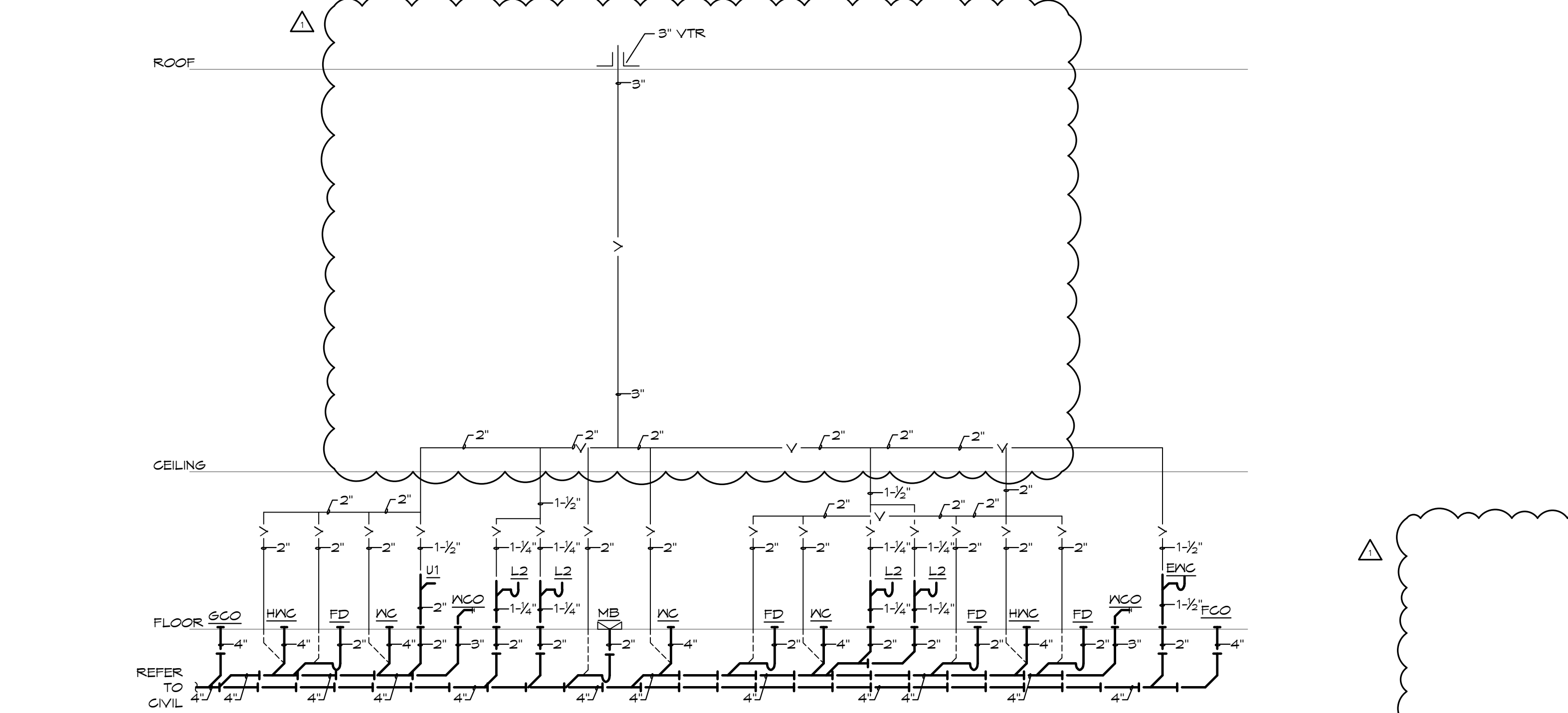
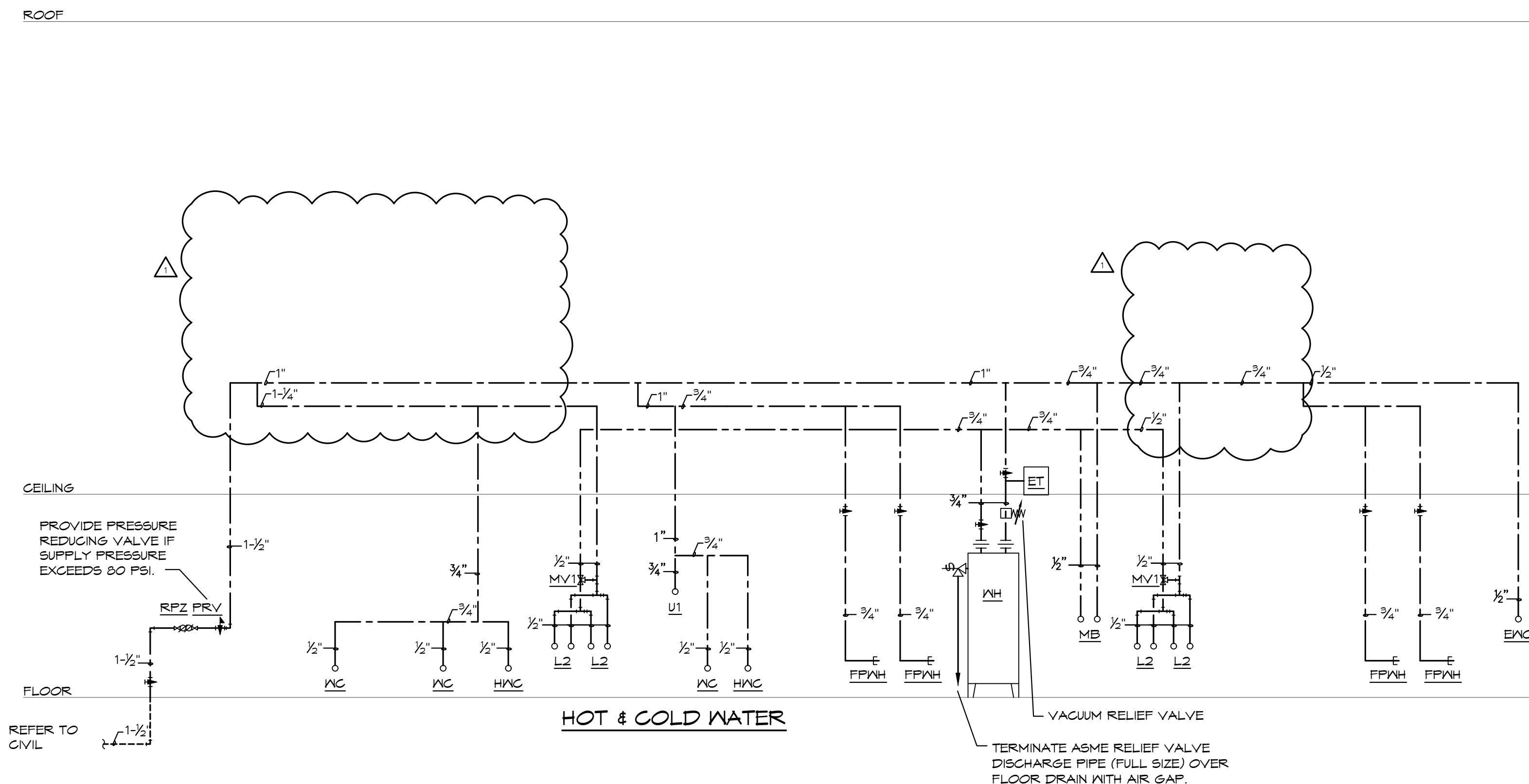
NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.

PIPE HANGER SCHEDULE

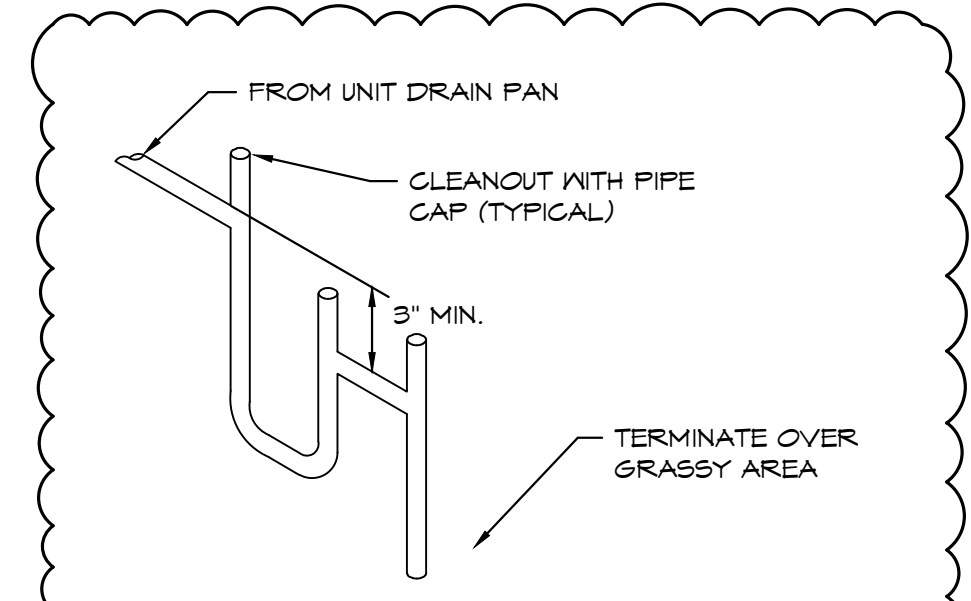
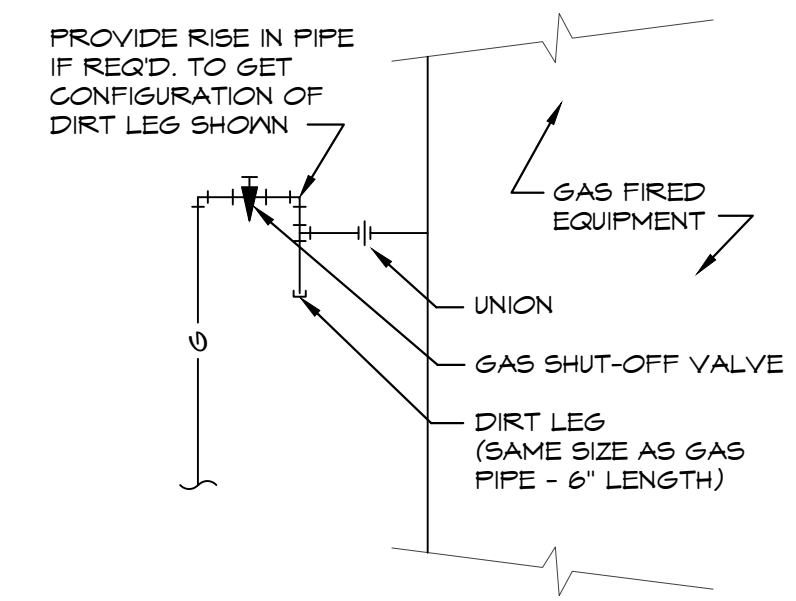
PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER
ABS (All Sizes)	4'	3/8"
PVC (All Sizes)	4'	3/8"
CPVC, 1 inch and smaller	3'	1/2"
CPVC, 1-1/4 inches and larger	4'	1/2"
Cast Iron (All Sizes)	5'	5/8"
Cast Iron (All Sizes) with 10 foot length of pipe	10'	5/8"
Copper Tube, 1-1/4 inches and smaller	6'	1/2"
Copper Tube, 1-1/2 inches and larger	10'	1/2"
Steel, 3 inches and smaller	12'	1/2"
Steel, 4 inches and larger	12'	5/8"
Pex, 1" and below without support channel	32"	3/8"
Pex, 1-1/4" and above without support channel	48"	3/8"
Pex 3/4" and below with support channel	6'	3/8"
Pex 1" and above with support channel	8'	3/8"

PLUMBING FIXTURE SCHEDULE:

- HWC** HANDICAP WATER CLOSET: TOTO, #CST144EL(R/N, "DRAKE CLOSE COUPLED TOILET", 1.28 GALLON FLUSH, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, #SC934 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND RISER, HANDLE ON WIDE SIDE OF FIXTURE.
- WC** WATER CLOSET: TOTO, #CST144E(R/G/N, "DRAKE CLOSE COUPLED TOILET", 1.28 GALLON FLUSH, ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, #SC934 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND RISER.
- L1** NOT USED.
- L2** HANDICAP LAVATORY, COUNTERTOP: TOTO, #LTS01, VITREOUS CHINA, 20"x 11" OVAL BASIN, DELTA #501 FAUCET WITH SINGLE METAL LEVER HANDLE, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP (MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CELL VINYL INSULATION.
- UI** URINAL, WALL HUNG: TOTO, #UT44T.01, VITREOUS CHINA, WASH OUT, WALL HUNG URINAL WITH 3/4" TOP SPUD, #TMUNNC-12 FLUSH VALVE, FLOOR MOUNTED FIXTURE SUPPORT. SET RIM HEIGHT PER ARCHITECTURAL DRAWINGS.
- S1** NOT USED.
- MB** MOP BASIN: FIAT, #MSB-2424, MOLDED STONE MOP BASIN, 2" DRAIN, 24"x 24" BASIN, VINYL BUMPER GUARD, STERN WILLIAMS #T-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAIL HOOK, WALL BRACKET WITH 30" HOSE.
- ENC** ELECTRIC WATER COOLER: OASIS, #P6BACSL, BARRIER FREE TWO-STATION WATER COOLER, 8.0 GPH, 50 DEGREES F WATER WITH 90 DEGREES F AIR TEMPERATURE, 120 VOLT, COLOR TO BE SELECTED BY ARCHITECT AFTER AWARD OF CONTRACT, FRONT AND SIDE ANTIMICROBIAL PUSH PADS, ANTIMICROBIAL FLEX BUBBLERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED LOOSE KEY ANGLE STOP, FLOOR MOUNTED CARRIER AND GATE APRON.
- FD** FLOOR DRAIN: SIOUX CHIEF, #842, PVC FLOOR DRAIN WITH ADJUSTABLE TOP AND CAST BRASS STRAINER.
- WH** HOT WATER HEATER: AO SMITH #DEL-40, 40 GALLON STORAGE, 208 VOLT, SINGLE PHASE, (2) 4500 WATT ELEMENT, NON-SIMULTANEOUS, ASME TEMPERATURE AND PRESSURE RELIEF VALVE. SET TEMPERATURE TO 120°F.
- ET** HOT WATER EXPANSION TANK: AMTROL, #ST-B, 3.2 GALLON EXPANSION TANK WITH DIAPHRAGM.
- MV** NOT USED.
- MV1** MIXING VALVE: WATTS, #LFMMV THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), SOLID MAX HYDRAULIC PRINCIPLE THERMOSTAT, INTEGRAL FILTER, WASHERS AND CHECK VALVES ON HOT AND COLD INLETS, (SET TO 110°F) ASSE #101T, #1064, #1070
- RPZ** REDUCED ZONE PRESSURE BACKFLOW PREVENTOR: WATTS #LF009, LEAD FREE BRONZE BODY CONSTRUCTION, TWO, IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.
- IB** NOT USED.
- FCO/NGO** VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL.
QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.
CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.
WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.
- FPWH** FREEZEPROOF WALL HYDRANT: JR SMITH #5609, 3/4" SIZE, NICKEL-BRONZE FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER.



PLUMBING RISER DIAGRAMS
SCALE: NONE



a new development for
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Lee's Summit, Missouri 64064

date 05.19.22
drawn by MA/FS
checked by EK/DS
revisions
12.20.22 REV 1

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MISSOURI PE COA #2009003629

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project number 20231

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12/22/2022



MECHANICAL GENERAL NOTES:

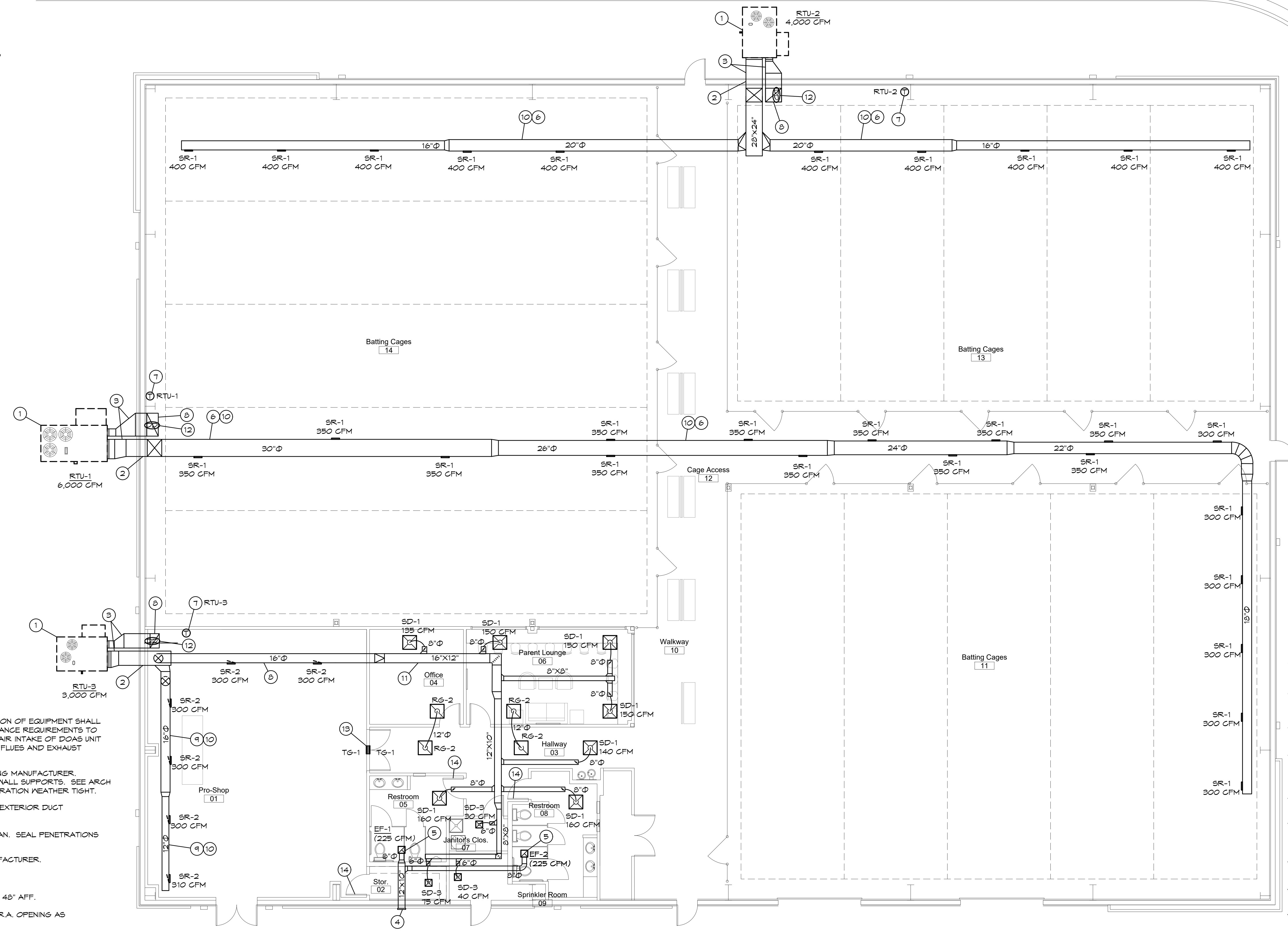
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE MECHANICAL SYSTEMS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
- INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
- DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND ROOFTOP UNITS, EXHAUST FANS, AND OTHER MOTORIZED EQUIPMENT.
- NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- ALL MATERIALS WITHIN FLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- ALL MECHANICAL SYSTEMS SHALL BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS.

MECHANICAL SYMBOLS

- NEW SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- EXHAUST GRILLE/FAN
- REMOTE TEMPERATURE SENSOR
- THERMOSTAT, MOUNTED AT 48" AFF
- DUCT-MOUNTED SMOKE DETECTOR
- NEW DUCTWORK
- 32"x14" SIZE OF RECTANGULAR DUCT
- 6"Ø SIZE OF ROUND DUCT
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTION TO FAN
- FLOOR PLAN NOTE DESIGNATION
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- EXH. EXHAUST AIR
- TRANSITION IN DUCT SIZE
- ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- SUPPLY AIR DUCT UP/DOWN
- RETURN AIR DUCT UP/DOWN
- EXHAUST AIR DUCT UP/DOWN
- CHANGE IN ELEVATION UP (UP) DOWN (DN) IN DIRECTION OF FLOW
- RTU-1 SCHEDULED MECHANICAL EQUIPMENT

MECHANICAL PLAN NOTES:

- PROVIDE GROUND MOUNTED RTU WHERE SHOWN ON PLAN. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS TO ALLOW FOR INSPECTION, SERVICE, REPAIR OR REPLACEMENT. FRESH AIR INTAKE OF DOAS UNIT SHALL BE LOCATED A MINIMUM OF 10 FOOT FROM VENT THRU ROOF, FLUES AND EXHAUST FANS.
- COORDINATE PENETRATION FOR HVAC EQUIPMENT WITH METAL BUILDING MANUFACTURER. COORDINATE FINAL ELEVATION OF EQUIPMENT WITH WALL GIRTS AND WALL SUPPORTS. SEE ARCH ELEVATION FOR DETAILS. COORDINATE WITH GC TO SEAL WALL PENETRATION WEATHER TIGHT.
- ALL EXTERIOR DUCT SHALL BE PROVIDED WITH R-8 INSULATION. SEAL EXTERIOR DUCT PENETRATION WEATHER TIGHT.
- PROVIDE WALL VENT GAP WITH BACKDRAFT DAMPER FOR EXHAUST FAN. SEAL PENETRATIONS WEATHER TIGHT.
- SUPPORT EXHAUST FAN FROM STRUCTURE AS REQUIRED BY THE MANUFACTURER.
- ROUTE DUCTWORK UP TO AS HIGH AS POSSIBLE.
- PROVIDE 7-DAY PROGRAMMABLE AUTO/HEAT/COOL THERMOSTAT AT 48" AFF.
- TURN UP RETURN DUCT TO 4' OF CEILING. INSTALL BIRDSCREEN OVER R.A. OPENING AS REQUIRED.
- INSTALL BOTTOM OF DUCT AT 12'-6" AFF.
- INSTALL EXPOSED SPIRAL DUCTWORK IN OPEN CEILING AREA. DUCT SIZES SHOWN ARE OUTER DIAMETER OF DUCTWORK AND INCLUDES AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE. COORDINATE INSTALLATION OF DUCTWORK WITH LIGHTING LAYOUT.
- PROVIDE CONCEALED SUPPLY DUCTWORK ABOVE CEILING. ROUTE DUCTWORK UP HIGH AND SUPPORT FROM THE STRUCTURE. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. COORDINATE ROUTING OF DUCTWORK WITH LIGHT HOUSINGS, ELECTRICAL CONDUIT, PIPING ETC. TO AVOID CONFLICT. DUCTWORK INSULATION SHALL BE AT LEAST 3" FROM LIGHT HOUSINGS. PROVIDE TRANSITION AS REQUIRED TO INSTALL DUCTWORK BETWEEN JOISTS.
- LOCATION OF DUCT MOUNTED SMOKE DETECTOR. PROVIDE REMOTE ENUNCIATOR AUDIO/VISUAL. VERIFY LOCATION WITH FIRE MARSHALL PRIOR TO INSTALLATION. REFER TO SPECIFICATION SHEET MFD-0 FOR ADDITIONAL INFORMATION.
- PROVIDE TRANSFER GRILLE ON BOTH SIDES AT 8'-0" AFF.
- UNDERCUT DOOR TO ALLOW FOR TRANSFER AIR PATH.



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

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MISSOURI PE COA #2009003629
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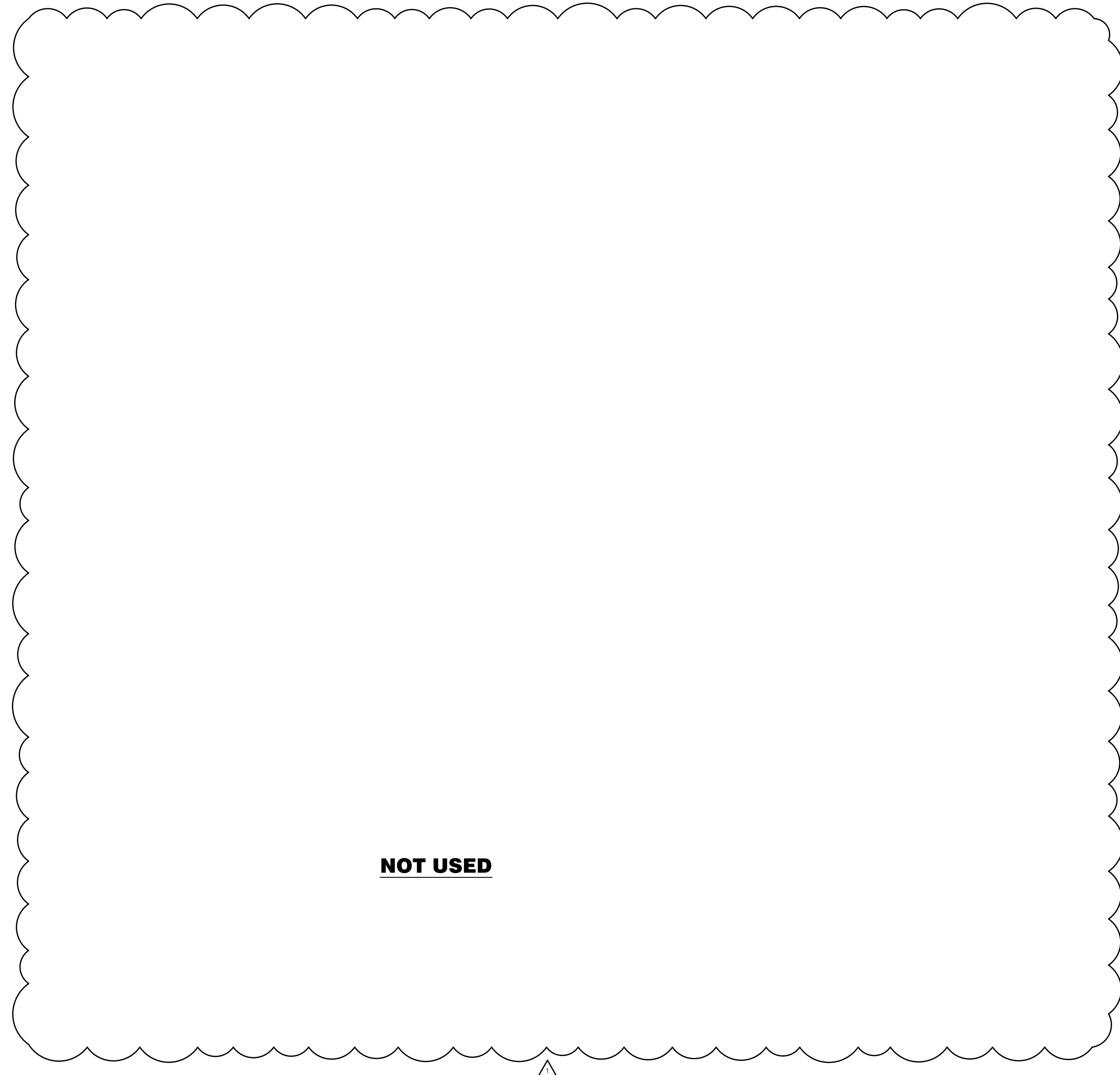
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revisions
12.20.22 REV 1

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drawing type permit
project number 20231

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12/22/2022



NOT USED

a new development for
Town Centre Lot 1
520 NE Town Centre Drive
Lee's Summit, Missouri 64064

date
05.19.22
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revisions
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BC PROJECT #: 22323
MISSOURI PE COA #2009003629
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project number
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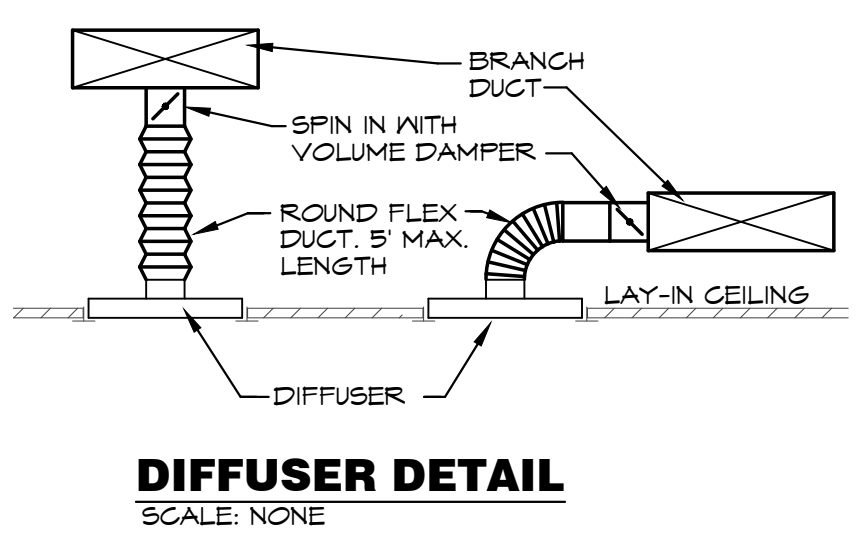
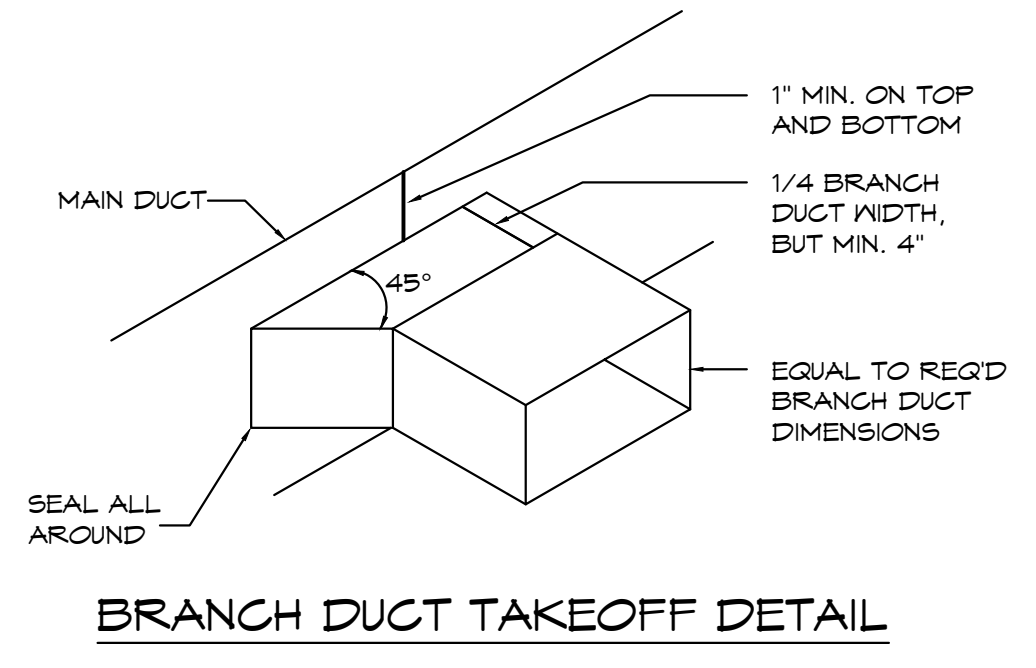
EXHAUST FAN SCHEDULE										
MARK	MFR	MODEL	CFM	EXTERNAL STATIC P. IN. W.G.	RPM	ELECTRICAL		FAN TYPE	CONTROLS	NOTES
						VOLT/Ø/HZ	PHASE			
EF-1	COOK	GC-182	225	0.25	1,400	120/1/60	1ØT W	CEILING EXH.	SWITCH	1
EF-2	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

NOTES: 1. PROVIDE CEILING GRILLE, INTEGRAL BACK DRAFT DAMPER, VARI-SPEED CONTROLLER (NEAR FAN AND ABOVE CEILING), AND WALL CAP.

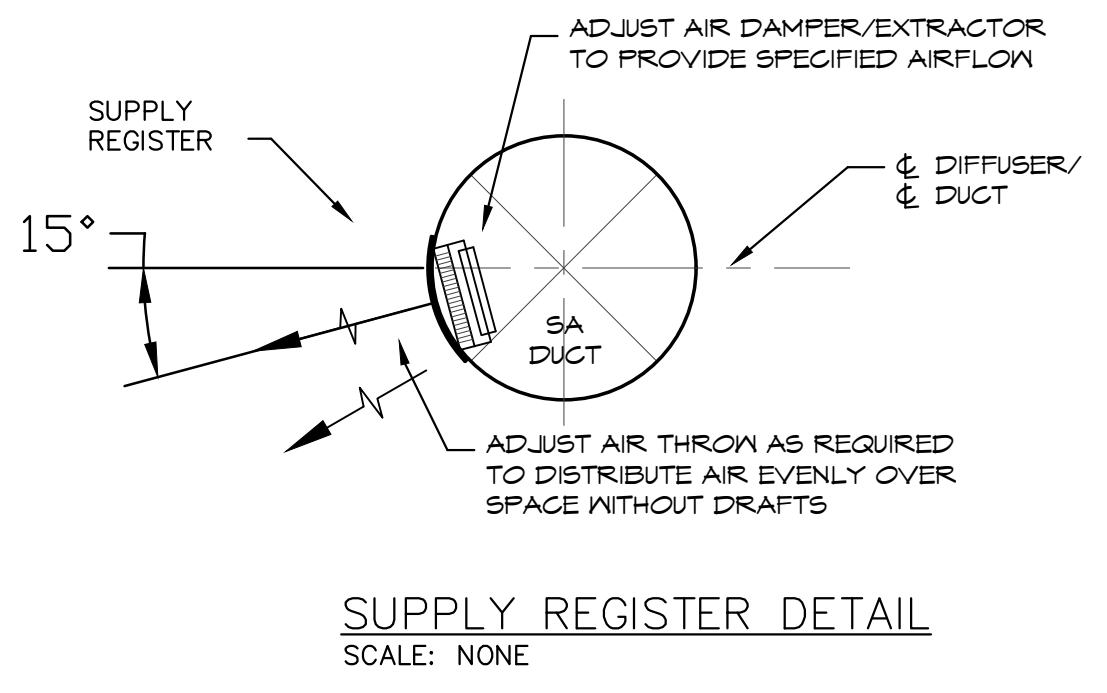
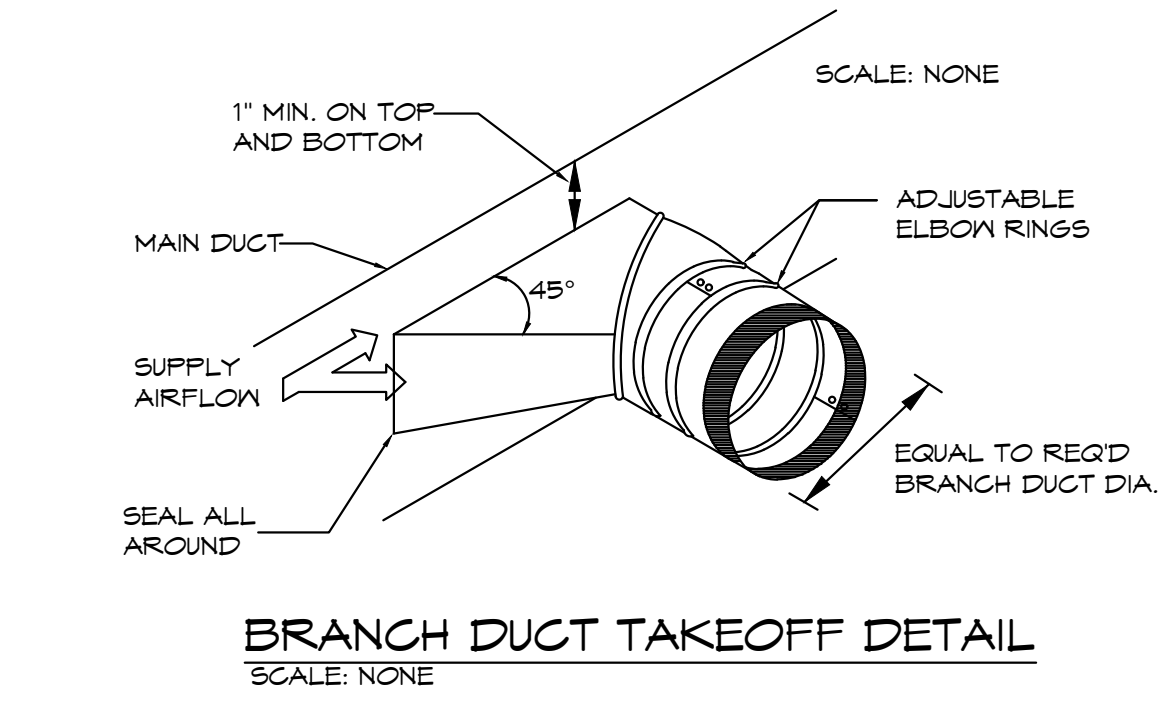
ROOFTOP UNIT SCHEDULE																											
MARK	MFR	MODEL NO.	NOM. TONS	EVAP. CFM	EXT. STATIC P. IN. W.G. (NOTE 2)	COOLING					HOT GAS REHEAT	HEATING (GAS)			ELECTRICAL				UNIT CONTROLS	BLOWER DRIVE TYPE	ECONOMIZER + BAROMETRIC RELIEF		MINIMUM OUTDOOR AIR (CFM)	SEER / EER	TOTAL WEIGHT (LBS)	NOTES	
						COOLING STAGES	TOTAL BTUH	SENS. BTUH	AMB.	EVAP. EAT DB/WB		BTUH INPUT	BTUH OUTPUT	HEATING STAGES	VOLT/Ø/HZ	BLOWER MOTOR	POWER EXHAUST	MCA (AMPS)			MOC (AMPS)	TYPE					CONTROLLER
RTU-1	CARRIER	48TGED16A2A5	15	6,000	0.5	2	184,780	137,040	105	80/67	N	240,000	195,000	2	208/3/60	6.1 HP	N	71	80	DIGITAL	CAV	STANDARD	SENSIBLE	450	- / 11.2	1760	1,2,3,4,5,6
RTU-2	↑	48TGED12A2A5	10	4,000	0.5	2	124,100	96,200	105	80/67	N	224,000	184,000	2	208/3/60	4.7 HP	N	49	60	DIGITAL	CAV	STANDARD	SENSIBLE	450	- / 11	1149	1,2,3,4,5,6
RTU-3	↑	48FCEM08A2A5	1.5	3,000	0.5	2	90,000	66,020	105	80/67	N	180,000	148,000	2	208/3/60	3 HP	N	39	50	DIGITAL	CAV	STANDARD	SENSIBLE	425	- / 11.2	914	1,2,3,4,5,6

NOTES: 1. PROVIDE HINGED ACCESS DOORS, SCROLL COMPRESSORS WITH CRANKCASE HEATER, HIGH PRESSURE SWITCHES, FREEZE/STAT, HAIL GUARDS, STANDARD COOLING DOWN TO 30°F. OUTDOOR AIR DAMPER TO FULLY CLOSE W/ FAN SHUTDOWN FOR ALL UNITS.
 2. EXTERNAL STATIC PRESSURE LISTED REPRESENTS STATIC PRESSURE REQUIRED FOR DUCTWORK AND DIFFUSERS OUTSIDE THE HVAC UNIT COMPLETELY INDEPENDENT OF ANY PRESSURE DROP THROUGH THE HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO FILTERS, COILS AND ECONOMIZERS. THE FAN AND MOTOR SHALL BE SIZED APPROPRIATELY TO MEET THIS DEFINITION OF EXTERNAL STATIC PRESSURE.
 3. PROVIDE COMMERCIAL, 7-DAY PROGRAMMABLE HEAT/COOL/AUTO CHANGE-OVER TOUCHSCREEN THERMOSTAT WITH OPTIMUM START CONTROLS. OUTDOOR AIR DAMPER IS TO CLOSE DURING UNOCCUPIED HOURS.
 4. PROVIDE NEW 2" MERV 8 FILTERS UPON COMPLETION OF CONSTRUCTION.
 5. PROVIDE 14" PRE-FABRICATED GROUND MOUNTED CURB.
 6. MECHANICAL CONTRACTOR SHALL COORDINATE ALL UNIT MOC'S OF ACTUAL INSTALLED EQUIPMENT WITH ELECTRICAL CONTRACTOR.
 * OCCUPANCY FOR BATTING CAGES IS 30 PEOPLE. 30*30 = 900 CFM MINIMUM REQUIRED FOR BATTING CAGE AREA.

DIFFUSER SCHEDULE									
MARK	MFR	MODEL	BORDER TYPE	NECK SIZE	FACE SIZE	FINISH	DAMPER	ACCESSORIES	NOTES
SD-1	TITUS	TMS	3	8"Ø	24"x24"	WHITE	-	-	-
SD-2	↑	↑	↑	↑	↑	↑	OB DAMPER	TRM KIT	-
SD-3	↑	↑	↑	6"Ø	12"x12"	↑	↑	↑	-
SD-4	↑	↑	↑	↑	↑	↑	OB DAMPER	TRM KIT	-
RG-1	↑	PAR	↑	18"x18"	24"x24"	↑	↑	↑	-
RG-2	↑	↑	↑	12"Ø	24"x24"	↑	↑	↑	-
SR-1	↑	300FS	↑	12"x10"	-	↑	OB DAMPER	-	-
SR-2	↑	3300FS	↑	20"x4"	-	↑	ANODIZED FULL LENGTH VOLUME DAMPER	-	-
TG-1	↑	350RL	↑	-	14"x14"	WHITE	-	-	-



OUTDOOR AIR CALCULATIONS									
UNIT	Area (sqft)	OCCUPANCY CLASSIFICATION	Occupant Density #/1000 sqft	People outdoor airflow rate in breathing zone, (Rp) cfm/person	Area outdoor airflow rate in breathing zone, (Ra) cfm/sqft	Exhaust airflow rate cfm/sqft	Breathing zone outdoor airflow (Vbz) (Ez)	Zone air distribution effectiveness (Ez)	Zone outdoor airflow (cfm)
RTU-3	1230	Sales	15	7.5	0.12		206	0.8	357
	1015	Conference rooms	50	5	0.06		315	0.8	393
	336	Conference/meeting	50	5	0.06		104	0.8	130
	188	Office spaces	5	5	0.06		16	0.8	20
	320	Corridors	0	0	0.06		19	0.8	24
							Total		925



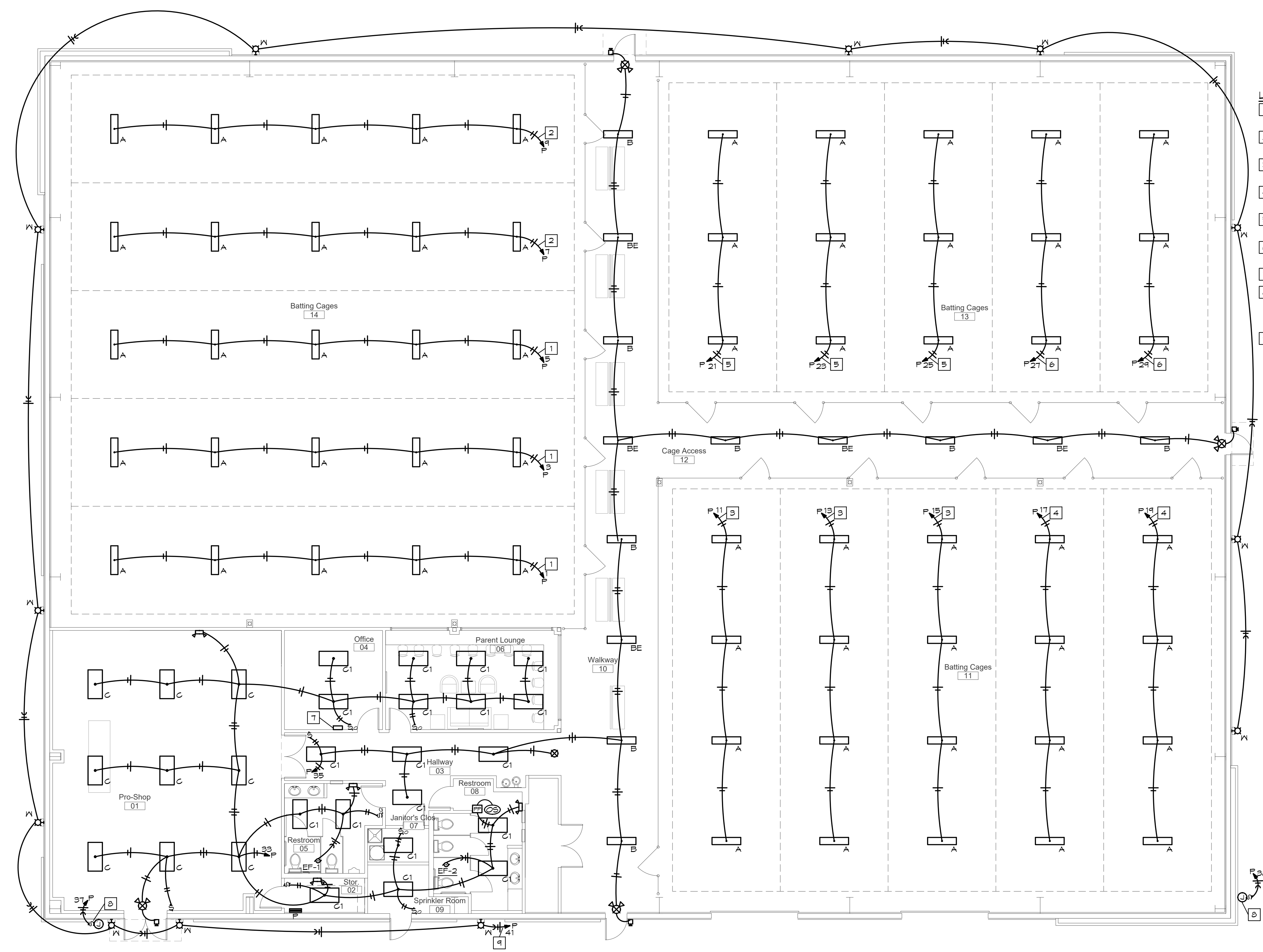
a new development for
Town Centre Lot 1
520 NE Town Centre Drive
Lee's Summit, Missouri 64064

date 05.19.22
drawn by MA/FS
checked by EK/DS
revisions
12.20.22 REV 1

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MISSOURI PE COA #2009003629
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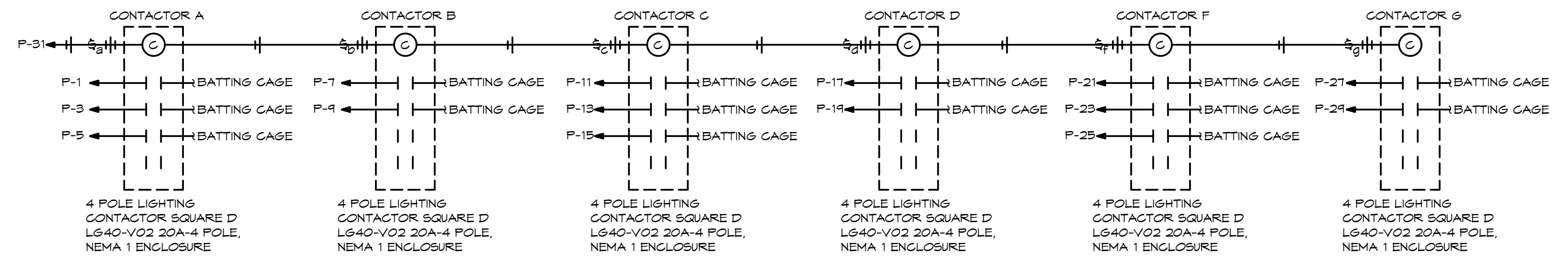
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M2.0
drawing type permit
project number 20231

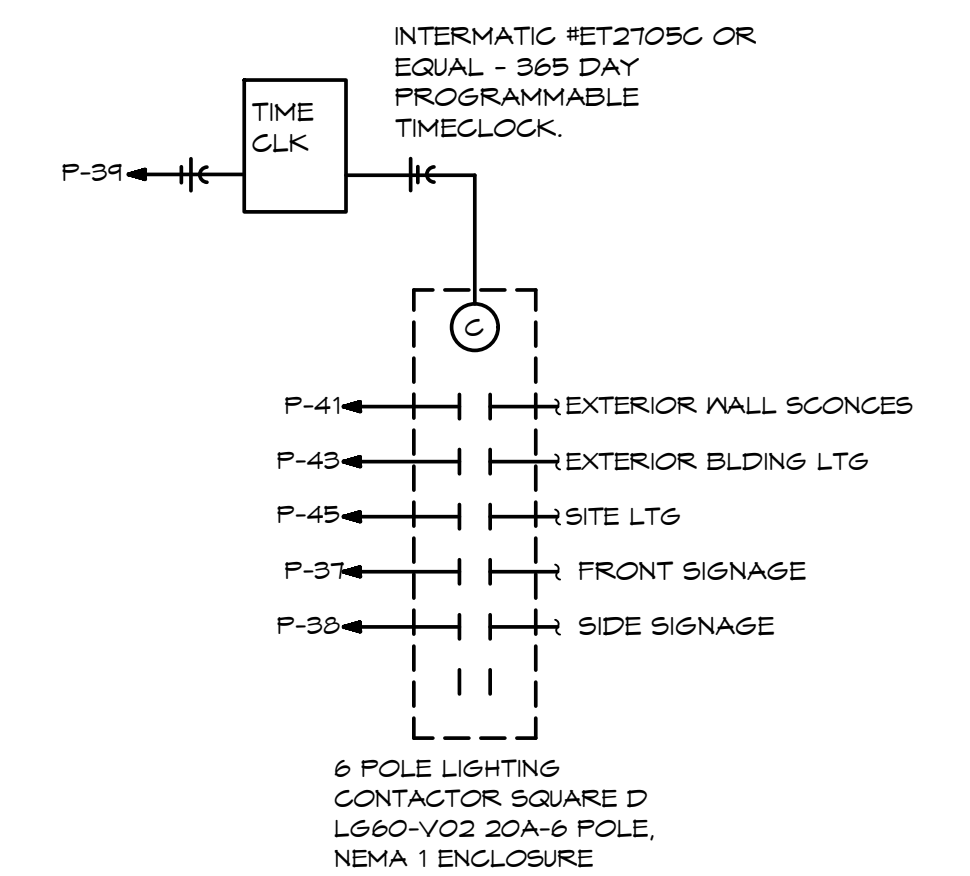


- LIGHTING PLAN NOTES:**
- 1 ROUTE CIRCUIT THROUGH CONTACTOR A FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 2 ROUTE CIRCUIT THROUGH CONTACTOR B FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 3 ROUTE CIRCUIT THROUGH CONTACTOR C FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 4 ROUTE CIRCUIT THROUGH CONTACTOR D FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 5 ROUTE CIRCUIT THROUGH CONTACTOR F FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 6 ROUTE CIRCUIT THROUGH CONTACTOR G FOR CONTROL OF BATTING CAGE LIGHTS. SEE DETAIL, THIS SHEET.
 - 7 VERIFY BATTING CAGE SWITCHBANK LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - 8 JUNCTION BOX WITH DISCONNECTING MEANS PER NEC FOR CONNECTION TO BUILDING MOUNTED SIGNAGE. VERIFY EXACT LOCATION AND CONNECT TO SIGN PER MANUFACTURER'S INSTRUCTIONS. ROUTE CIRCUIT THRU TIMECLOCK, SEE DETAIL, THIS SHEET.
 - 9 ROUTE THRU EXTERIOR LIGHTING CONTROLS. SEE DETAIL, THIS SHEET.

ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH



LIGHTING CONTROL DIAGRAM
SCALE: NONE



EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE: NONE

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a new development for

Town Centre Lot 1

520 NE Town Centre Drive
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revisions
12.20.22 REV 1

sheet number
E1
LIGHTING PLAN
drawing type permit
project number 20231



- POWER PLAN NOTES:**
- 1 PROVIDE QUAD RECEPTACLE AND DATA TO EACH FITTING MACHINE. EACH MACHINE REQUIRES (2) ETHERNET CABLES AND (1) MULTI-CABLE WIRE, SUPPLIED BY FITTING MACHINE COMPANY, IN CONDUIT FROM THE FITTING MACHINE TO THE CARD OPERATED BOX KIOSK. VERIFY ALL ELECTRICAL SPECIFICATIONS WITH FITTING MACHINE COMPANY PRIOR TO ROUGH-IN.
 - 2 VERIFY LOCATION OF CARD OPERATED BOX KIOSK WITH OWNER PRIOR TO ROUGH-IN.
 - 3 VERIFY EXACT LOCATION OF ELECTRICAL DEVICES IN MOUNTED IN CASEWORK.
 - 4 VERIFY LOCATION OF 2'X4'X3/4" FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD WITH GROUND BAR AND #6 CU BOND TO BUILDING ELECTRODE SYSTEM. PROVIDE 4" C TO PROPERTY LINE FOR BUILDING TELEPHONE AND INTERNET SERVICE. TERMINATE AS DIRECTED BY SERVICE PROVIDER. VERIFY ROUTING AND DISTANCE.
 - 5 PENDANT MOUNT FIRE ALARM DEVICE.



ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH

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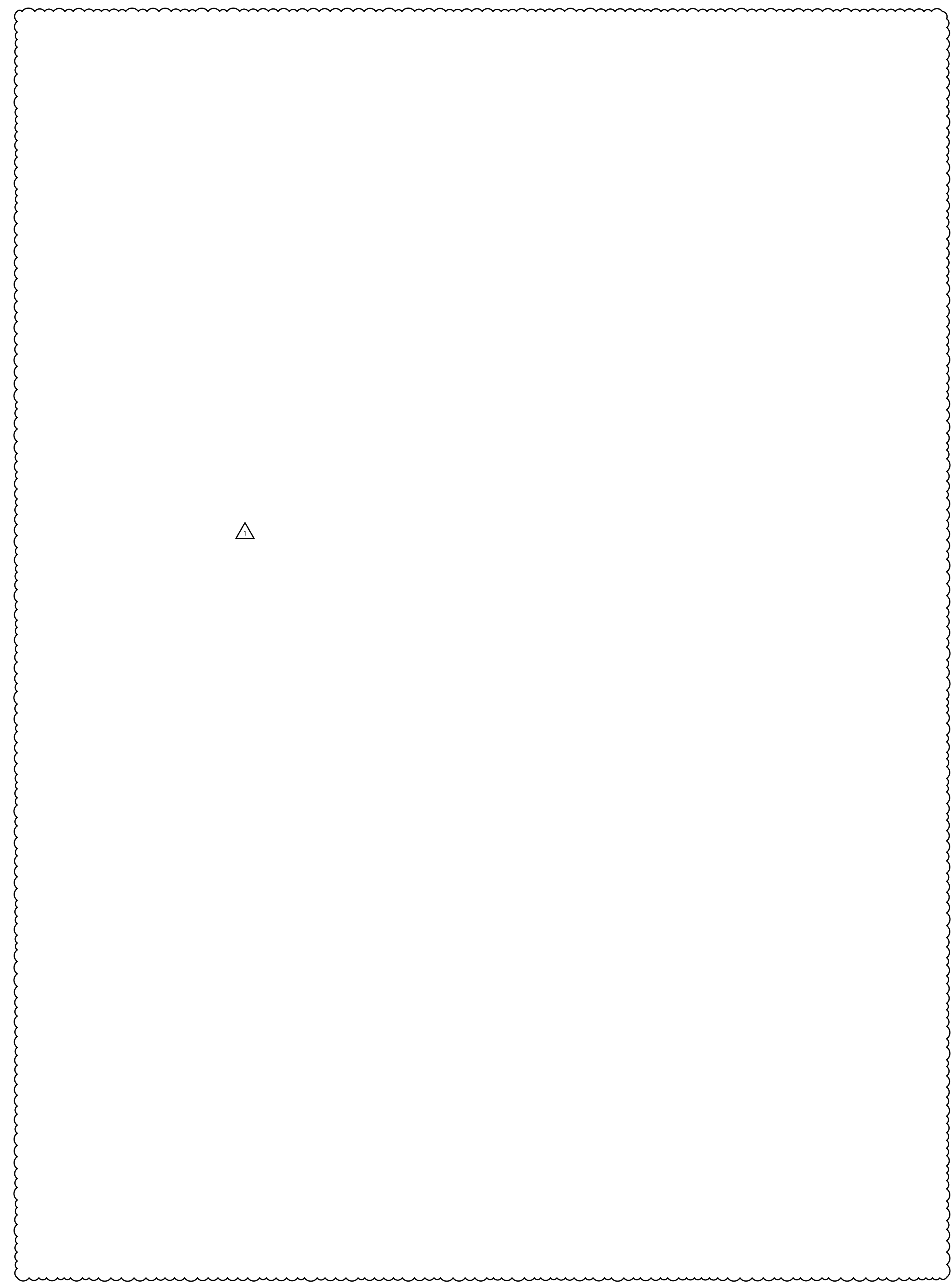
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E2
POWER PLAN
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project number
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LIGHT FIXTURE SCHEDULE					
MARK NO.	MANUFACTURER & CATALOG NUMBER	VOLTS WATTS	LIGHT SOURCE	DESCRIPTION	EQUIVALENT MANUFACTURERS
A	LUX DYNAMICS IK10 SERIES E 3 D A 850 4 U10 CP B 3XY X 6YM	120 229	LED 36,000LUM 5000K	3 LIGHT BAR 2 CHANNEL LED 36,000 LUMEN, 5,000 KELVIN, 2-POINT Y CABLE MOUNT, VERIFY FINISH COLOR, MOUNT BOTTOM OF FIXTURE AT 22' AFF. ORDER CABLE TO LENGTH REQUIRED	WILLIAMS COLUMBIA OR EQUAL
B	LUX DYNAMICS IK10 SERIES E 1 S A 850 4 U10 CP B 3XY X 6YM	120 78	LED 11,000LUM 5000K	1 LIGHT BAR 1 CHANNEL LED 11,000 LUMEN, 5,000 KELVIN, 2-POINT Y CABLE MOUNT, VERIFY FINISH COLOR, MOUNT BOTTOM OF FIXTURE AT 22' AFF. ORDER CABLE TO LENGTH REQUIRED	WILLIAMS COLUMBIA OR EQUAL
BE	LUX DYNAMICS IK10 SERIES E 1 S A 850 4 U10 CP B E15 3XY X 6YM	120 78	LED 11,000LUM 5000K	1 LIGHT BAR 1 CHANNEL LED 11,000 LUMEN, 5,000 KELVIN, 2-POINT Y CABLE MOUNT WITH EMERGENCY DRIVER, 2,561 LUMEN, VERIFY FINISH COLOR, MOUNT BOTTOM OF FIXTURE AT 22' AFF. ORDER CABLE TO LENGTH REQUIRED	WILLIAMS COLUMBIA OR EQUAL
C	LITHONIA EPANL 2X4 4000LM 80CRI 50K EZT MVOLT	120 38	LED 4000LUM 5000K	LED FLAT PANEL, 4000 LUMEN, 5000 KELVIN, VERIFY MOUNTING REQUIREMENTS AND HEIGHTS	WILLIAMS COLUMBIA OR EQUAL
C1	LITHONIA EPANL 2X4 3000LM 80CRI 50K EZT MVOLT	120 29	LED 3000LUM 5000K	LED FLAT PANEL, 3000 LUMEN, 5000 KELVIN, VERIFY MOUNTING REQUIREMENTS AND HEIGHTS	WILLIAMS COLUMBIA OR EQUAL
DE	LITHONIA GLX L48 4000LM SEF RDL 120 EZI 40K 80CRI PS1050 WH	120 28	LED 4000LUM 4000K	4' LED STRIP FIXTURE WITH ROUND LENS, 4000 LUMEN, 4000 KELVIN, WALL MOUNTED	WILLIAMS COLUMBIA OR EQUAL
W	EXTERIOR SCONCE, VERIFY FINISH WITH OWNER	120	LED LUM K	LED SCONCE	
W1	CREE LIGHTING XSPY-B-WM-4ME-AL- 40K-UVV	120 31	LED 4270LUM 4000K	WALL MOUNTED LED BUILDING LIGHT WITH TYPE IV MEDIUM THROW OPTIC, VERIFY FINISH COLOR WITH ARCHITECT	
SA	CREE LIGHTING OSQ-M-B-4L-40K7-4M- UNV-NM MOUNT-SQG-ML-B-DA SHIELD-OSQ-BLSMF POLE-SSS-4-11-12-CM- B5-ID-C	120 130	LED 7075LUM 4000K	POLE MOUNTED WITH HOUSE SIDE SHIELD LED AREA LIGHT WITH TYPE IV MEDIUM THROW OPTIC, MOUNT ON 12'X4" SQUARE STEEL POLE WITH 3" CONCRETE BASE, VERIFY FINISH COLOR WITH ARCHITECT	
SB	CREE LIGHTING OSQ-M-B-4L-40K7-5Q- UNV-NM MOUNT-SQG-ML-B-DA POLE-SSS-4-11-12-CM- B5-2D18-C	120 120	LED 10250LUM 4000K	POLE MOUNTED LED 180 DEGREE AREA LIGHT WITH TYPE V SQUARE OPTIC, MOUNT ON 12'X4" SQUARE STEEL POLE WITH 3" CONCRETE BASE, VERIFY FINISH COLOR WITH ARCHITECT	
⌚	DUAL-LITE EV2	120 1	INCL	EMERGENCY LIGHT WITH TWIN ADJUSTABLE 1 WATT LED HEADS AND BATTERY, MOUNT AT T-6", TO CLEAR OBSTACLES, (PROVIDES 1 FC AVG. ON 2T CENTER FIXTURE SPACING)	SURE-LITES LITHONIA OR EQUAL
⊗	DUAL-LITE EVE-U-R-W-VR53	120 1	INCL	EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, UNIVERSAL MOUNT, BATTERY BACKUP, WITH VANDAL RESISTANT SHIELD	SURE-LITES LITHONIA OR EQUAL
⊗	DUAL-LITE EVC-U-R-W-VR53	120 3	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, TWIN LED EMERGENCY LIGHT HEADS, UNIVERSAL MOUNT, BATTERY BACKUP, WITH VANDAL RESISTANT SHIELD	SURE-LITES LITHONIA OR EQUAL
⊗	DUAL-LITE EVC-U-R-W-D4-VR53 WITH EVO-D-X	120 5	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, TWIN 6W EMERGENCY LIGHT HEADS, UNIVERSAL MOUNT, HIGH CAPACITY BATTERY BACKUP, VANDAL RESISTANT SHIELD AND REMOTE TWIN HEAD OUTDOOR RATED FIXTURE	SURE-LITES LITHONIA OR EQUAL
EX	LITHONIA ATF-CEL-XX-UVOLT- LTP-SDRT-WT-CM	120 12	LED INCL 4000K	ARCHITECTURAL EXTERIOR LED EMERGENCY LIGHT WITH COLD WEATHER BATTERY, COORDINATE FINISH TO MATCH BUILDING	SURE-LITES LITHONIA OR EQUAL

NOTES:



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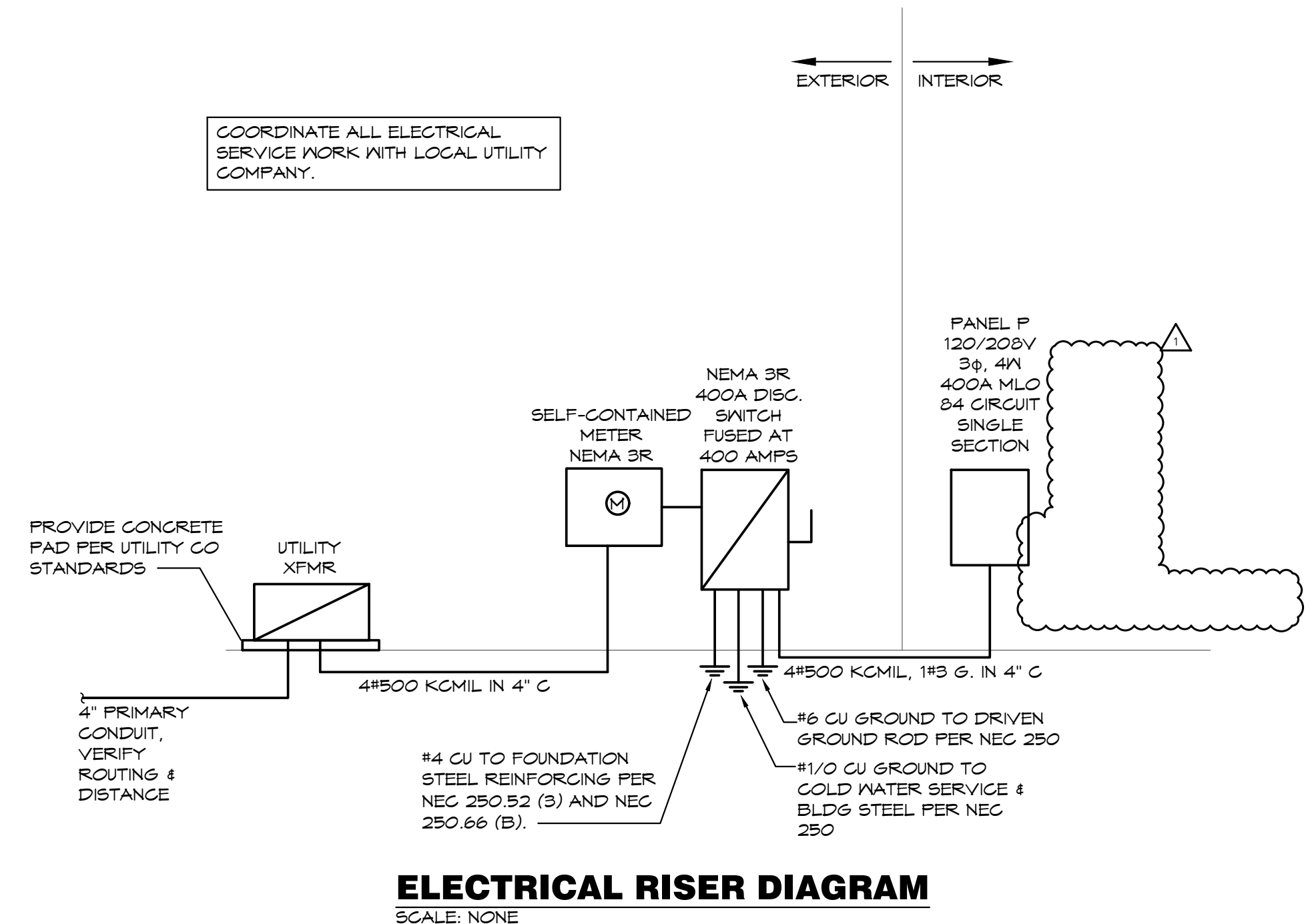
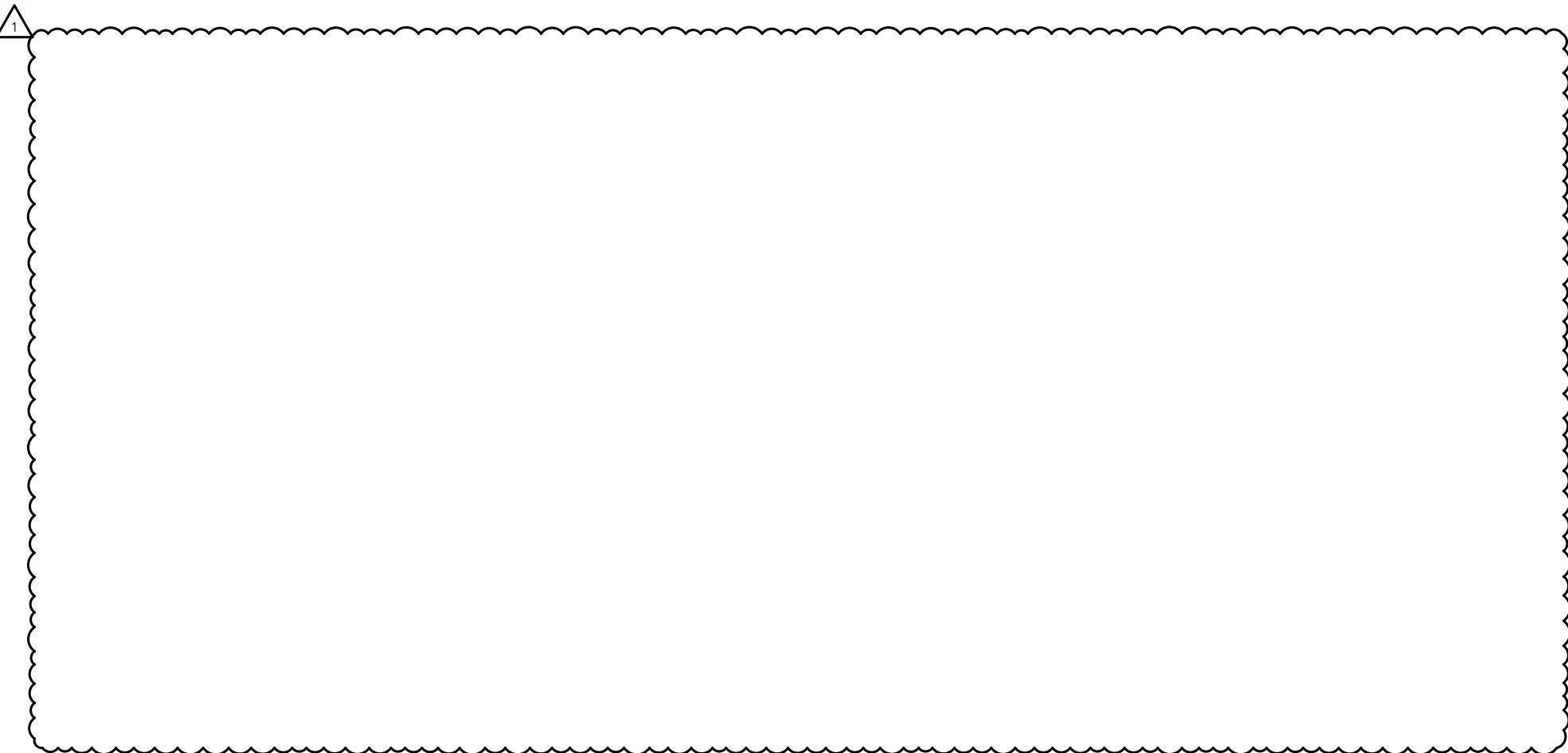
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E3
MEZZANINE PLAN
drawing type
permit
project number
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PANEL: F		VOLTS: 120/208V		PH: 3Ø		WIRE: 4W		LOCATION:		STORAGE		MOUNTING: SURFACE			
BUS: 400A		MAIN: 400A MLO		IC: 22,000		RMS SYM AMPS						FEEDER: SEE RISER DIAGRAM			
GKT	DESCRIPTION	AMPS	POLE	WIRE	ØA	ØB	ØC	ØA	ØB	ØC	WIRE	POLE	AMPS	DESCRIPTION	GKT NO
1	BATTING CASE LTS	20	1	12	1,145			360			12	1	20	PITCHING MACHINE	2
3	BATTING CASE LTS	20	1	12	1,145			360			12	1	20	PITCHING MACHINE	4
5	BATTING CASE LTS	20	1	12				360			12	1	20	PITCHING MACHINE	6
7	BATTING CASE LTS	20	1	12	1,145			360			12	1	20	PITCHING MACHINE	8
9	BATTING CASE LTS	20	1	12	1,145			360			12	1	20	PITCHING MACHINE	10
11	BATTING CASE LTS	20	1	12				900			12	1	20	PITCHING MACHINE KIOSKS	12
13	BATTING CASE LTS	20	1	12	916			600			12	1	20	DRINKING FOUNTAIN (SPT)	14
15	BATTING CASE LTS	20	1	12	916			900			12	1	20	PARENT LOUSE RCPT	16
17	BATTING CASE LTS	20	1	12	916			720			12	1	20	OFFICE RCPT	18
19	BATTING CASE LTS	20	1	12	916			600			12	1	20	OFFICE COPIER	20
21	BATTING CASE LTS	20	1	12	687			180			12	1	20	PRO-SHOP POS RCPT	22
23	BATTING CASE LTS	20	1	12	687			180			12	1	20	PRO-SHOP POS RCPT	24
25	BATTING CASE LTS	20	1	12	687			600			12	1	20	PRO-SHOP COPIER	26
27	BATTING CASE LTS	20	1	12	687			900			12	1	20	PRO-SHOP CONV RCPT	28
29	BATTING CASE LTS	20	1	12	687			360			12	1	20	PHONEBOARD RCPT	30
31	BC LTS CONTACTORS	20	1	12	200			200			12	1	20	FACP (HL)	32
33	PRO-SHOP/OFFICE LTS	20	1	12	TTT						1	1	20	SPARE	34
35	HALL/CASE ACCESS LTS	20	1	12				1,190			1	1	20	SPARE	36
37	FRONT SIGNAGE	20	1	12	1,200			1,200			12	1	20	SIDE SIGNAGE	38
39	EXTERIOR TIMELOCK	20	1	12				200			1	1	20	SPARE	40
41	EXTERIOR WALL SCANCES	20	1	12				480			1	1	20	SPARE	42
43	EXT BUILDING/SITE LTS	20	1	10	875						1	1	20	SPARE	44
45	SITE LTS	20	1	10				760			1	1	20	SPARE	46
47	SPARE	20	1								1	1	20	SPARE	48
49	SPARE	20	1								1	1	20	SPARE	50
51	SPARE	20	1								1	1	20	SPARE	52
53	SPARE	20	1								1	1	20	SPARE	54
55	WATER HEATER	30	2	10	2,250						1	1	20	SPARE	56
57	SPARE	30	2	10	2,250						1	1	20	SPARE	58
59	EXTERIOR CONV RCPT	20	1	12				720			1	1	20	SPARE	60
61	SPARE	20	1	12	8,520						1	1	20	SPARE	62
63	RTU-1	80	3	4	8,520						1	1	20	SPARE	64
65	SPARE	80	3	4	8,520						1	1	20	SPARE	66
67	RTU-2	60	3	6	5,880						1	1	20	SPARE	68
69	SPARE	60	3	6	5,880						1	1	20	SPARE	70
71	RTU-3	50	3	6	4,680						1	1	20	SPARE	72
73	SPARE	50	3	6	4,680						1	1	20	SPARE	74
75	RTU-3	50	3	6	4,680						1	1	20	SPARE	76
77	SPARE	50	3	6	4,680						1	1	20	SPARE	78
79	SPARE	20	1								1	1	20	SPARE	80
81	SPARE	20	1								1	1	20	SPARE	82
83	SPARE	20	1								1	1	20	SPARE	84
		28,412	27,647	25,761	3,920	2,700	2,520								
TOTAL CONNECTED LOAD:														40,960 VA	
NEG DEMAND LOAD:														47,225 VA	
DEMAND AMPS @ 208 VOLT / 3Ø:														264.87 A	



COORDINATE ALL ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY.

ELECTRICAL RISER DIAGRAM
SCALE: NONE

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12.20.22 REV 1

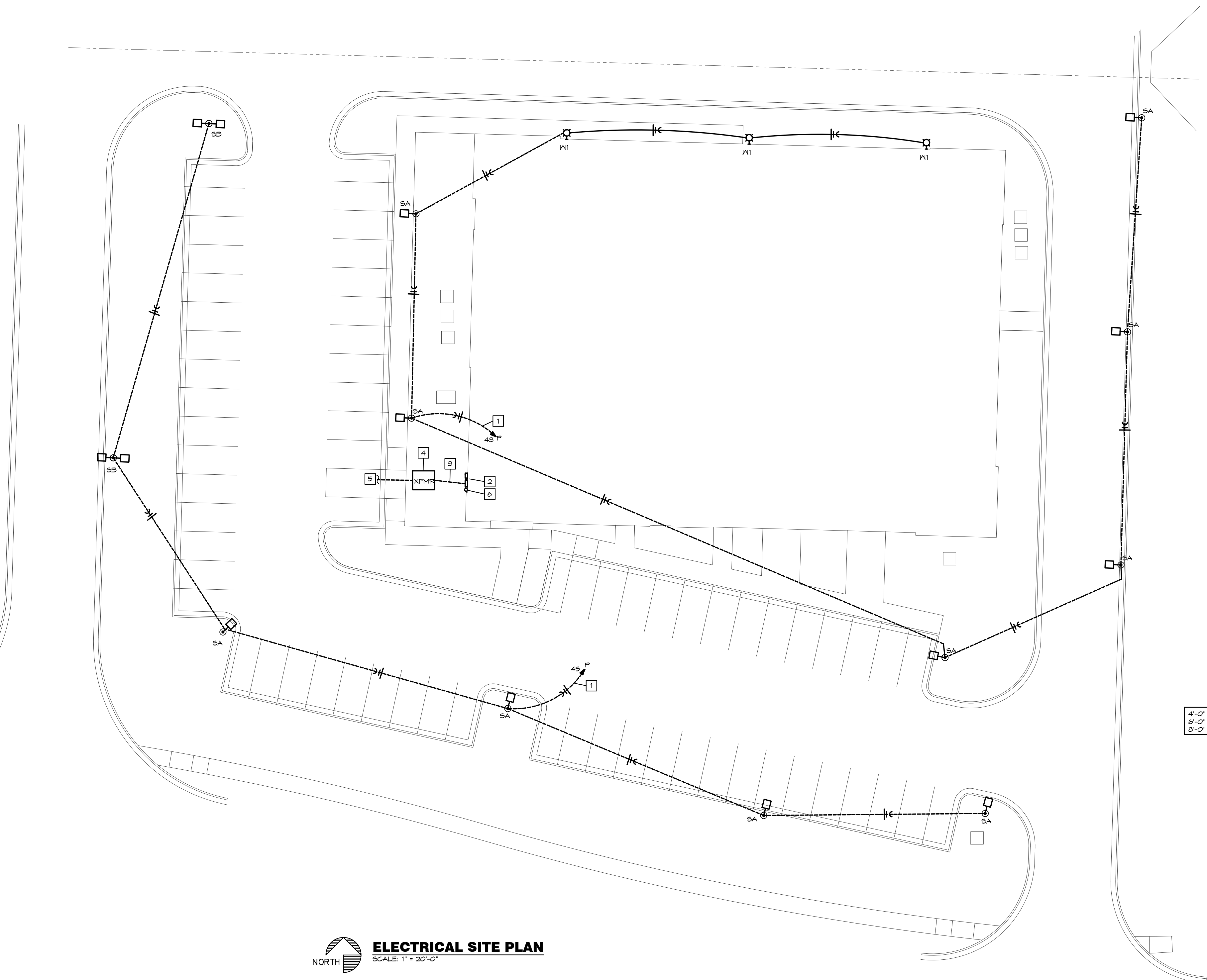
BC PROJECT #: 22323
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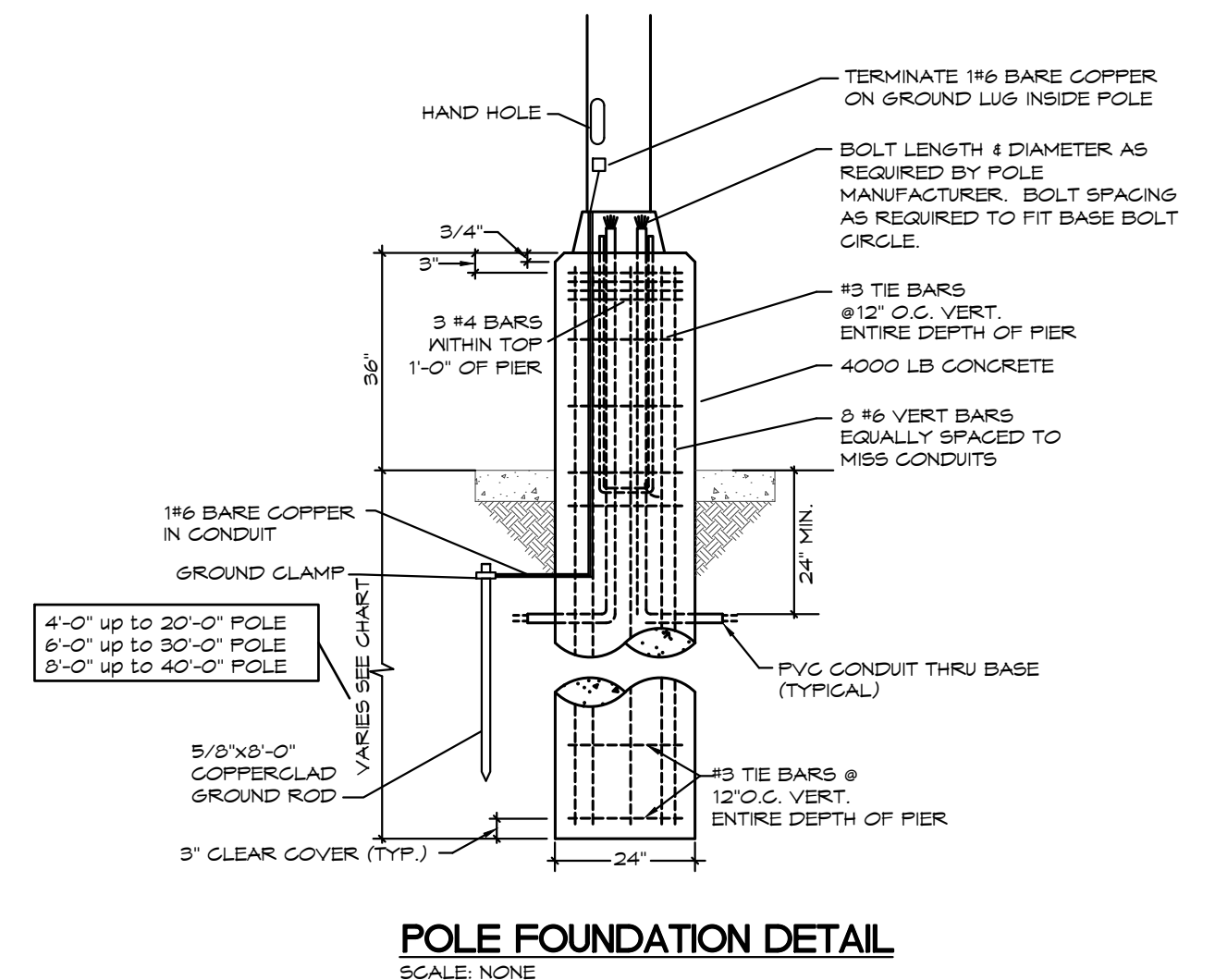
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E4
RISER DIAGRAM, DETAILS AND PANEL SCHEDULES
drawing type
permit
project number
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- SITE PLAN NOTES:**
- 1 ROUTE THRU EXTERIOR LIGHTING CONTACTOR, SEE DETAIL, SHEET E1.
 - 2 PROPOSED LOCATION OF ELECTRICAL SERVICE ENTRANCE GEAR. REFER TO RISER DIAGRAM, SHEET E4 FOR MORE INFORMATION.
 - 3 ELECTRICAL PRIMARY CONDUIT AS DIRECTED BY LOCAL UTILITY CO. REFER TO RISER DIAGRAM, SHEET E4 FOR MORE INFORMATION.
 - 4 PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER. REFER TO RISER DIAGRAM, SHEET E4 FOR MORE INFORMATION.
 - 5 ELECTRICAL SECONDARY FEEDER. REFER TO RISER DIAGRAM, SHEET E4 FOR MORE INFORMATION.
 - 6 PHONE DEMARK AND INTERNET PROVIDER. VERIFY LOCATION AND CONDUIT REQUIREMENTS WITH SERVICE PROVIDERS.



ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"
NORTH

a new development for
Town Centre Lot 1
520 NE Town Centre Drive
Lee's Summit, Missouri 64064

date 05.19.22
drawn by MA/FS
checked by EK/DS
revisions
12.20.22 REV 1

BC PROJECT #: 22323
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