

C.A. BOONE CONSTRUCTION, LLC.

OFFICE BUILDING

970 S.W. ARLINGTON BOULEVARD

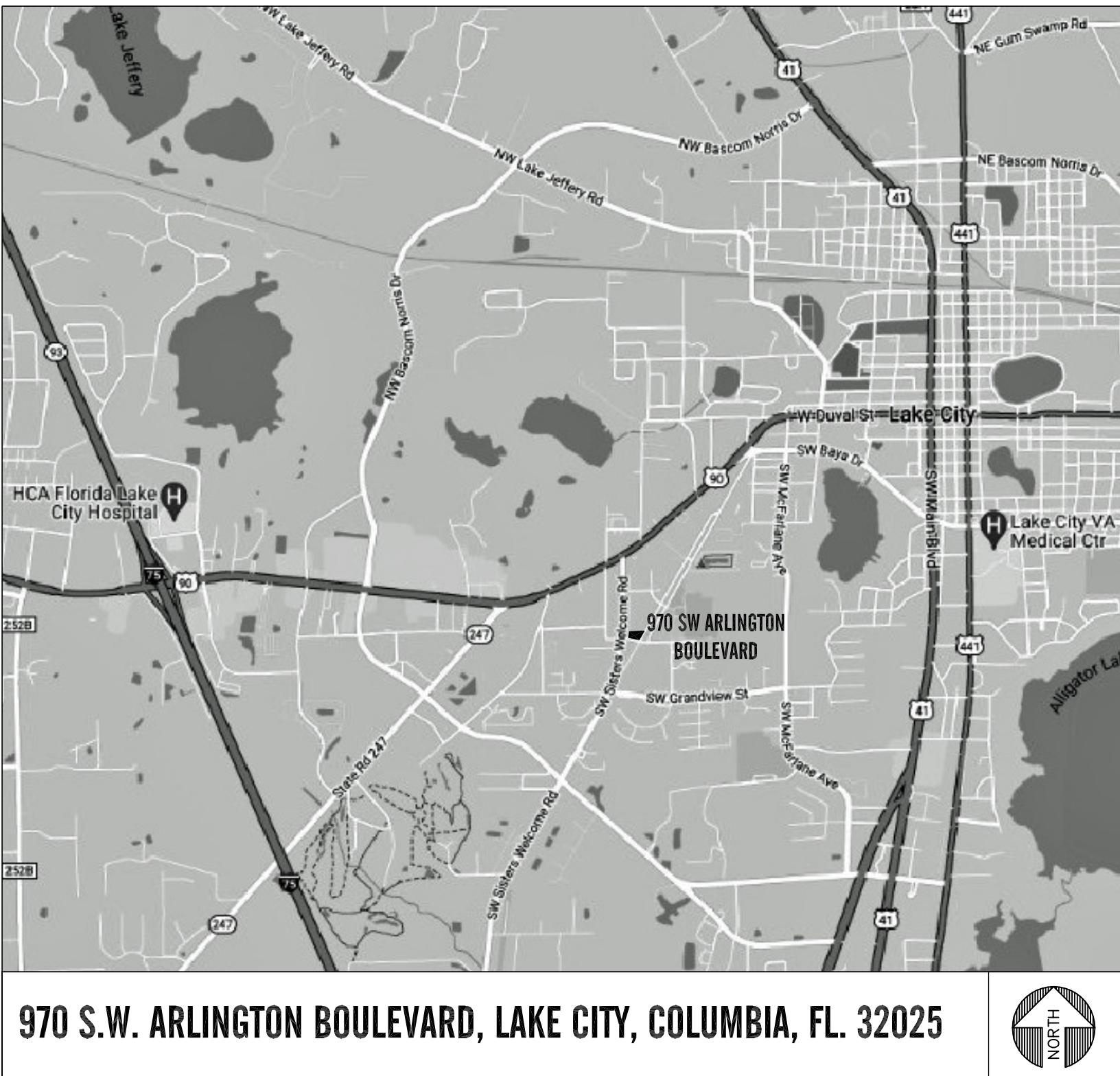
LAKE CITY, FLORIDA 32025

RELEASE for PERMIT JUNE 26, 2024

FLORIDA PRODUCT APPROVAL NOTICE:

"Contractor shall make available to the Building Inspector documentation necessary to verify that all exterior envelope components requiring product approval per FS 553.842 are in compliance with product approval installation requirements."

VICINITY MAP



INDEX OF DRAWINGS

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| A11 | NEW WALL SECTION | | |
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GOVERNING CODES

- FLORIDA BUILDING CODE 8th EDITION (2023)– Building
- FLORIDA BUILDING CODE 8th EDITION (2023)– Plumbing
- FLORIDA BUILDING CODE 8th EDITION (2023)– Energy Conservation
- FLORIDA BUILDING CODE 8th EDITION (2023)– Mechanical
- NFPA 70–2020 NATIONAL ELECTRICAL CODE
- 2023 FLORIDA FIRE PREVENTION CODE– 8th EDITION (based off NFPA 1 & NFPA 101, 2012 EDITION)
- FLORIDA BUILDING CODE 8th EDITION (2023)– Accessibility

BUILDING DATA

OCCUPANCY: (F.B.C) BUSINESS, GROUP 'B'
(CLASS B Occupancy per 37.1.4.2 NFPA 101)

CONSTRUCTION CLASSIFICATION:
TYPE II-B (IBC) TYPE II(220) (NFPA 220);
NON-COMBUSTABLE; UNPROTECTED; NON-SPRINKLED

AREA CALCULATIONS:
TOTAL OVERALL BUILDING AREA: 10,050.0 SQ. FT.
OFFICE BUILDING (Two-story)- 5,100.0 SQ.FT.
STORAGE/ WAREHOUSE (One-story)- 4,950.0 SQ.FT.
TOTAL BUILDING HEIGHT: 2 STORY (27'-0" OVERALL GABLE HGT.)

OVERALL TOTAL OCCUPANTS: 49 PERSONS MAX. ALLOWABLE
BUSINESS- First Floor: 1,810.0 sq.ft.
Office Area- 1,810 sq.ft./ 150 = 12 OCCUPANTS
Second Floor: 1,696 sq.ft.
Office Area- 310 sq.ft. / 150= 2 OCCUPANTS
Cubicle Area- 1,200 sq.ft./150= 8 OCCUPANTS (6 Cubicles)
Breakroom Area- 186.0 sq.ft. (net)/15= 12 OCCUPANTS
34 PERSONS MAX. ALLOWABLE FOR BUSINESS
STORAGE/ WAREHOUSE Area: 4,785 sq.ft./ 300= 15.95= 15 OCCUPANTS
:per NFPA 101- Table 7.3.1.2
15 PERSONS MAX. ALLOWABLE FOR STORAGE/ WAREHOUSE

MEANS OF EGRESS:
MIN. 1 EXIT PER FLOOR PERMITTED PER 2023 FBC- Building (8th Edition), Table 1006.2.1.:
Occupancy Group 'B' w/ Max. Occupant Load of Space of 49 Occupants (First Floor) & 29 Occupants (Second Floor)
(O.L.<30 w/o Sprinklers 100ft. max. common path of egress travel distance)
Occupancy Group 'S' w/ Max. Occupant Load of Space of 29 Occupants (First Floor)
(O.L.<30 w/o Sprinklers 100ft. max. common path of egress travel distance)

LOCATION MAP



STATEMENT OF VERIFICATION:

Per Lake City- Columbia County FEMA Flood Zone Map parcel #12023C0291D is not located within the designated Zone AE, Zone A, Zone X500 or Zone AE Floodway.

PROPERTY IDENTIFICATION:
PARCEL TAX ID: #06-4S-17-08034-000
LOCATION ADDRESS: 970 S.W. ARLINGTON BOULEVARD
LAKE CITY, FLORIDA 32025
LAND AREA: 2.75 acres
PROPERTY USE: SINGLE FAMILY (0100)
BRIEF LEGAL DESCRIPTION: COMM NW COR OF SEC 6, RUN E ALONG SEC LINE 330.7ft FOR POB, CONT E 03-10-17
SEC/TWP/RNG:

ARCWORKS
architecture • interiors • planning

ARCWORKS, LLC
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100 Madison Street,
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205 N Broad Street
Bainbridge, GA 31817
troy@arcworksgroup.com

Troy Anthony Stencel

Professional Seal

Signature

2024-06-26

2024-06-26

04'00"

04'00"

TROY ANTHONY STENCEL

FLORIDA ARCHITECT #A99221

GENERAL CONTRACTOR:

SIMQUE CONSTRUCTION, LLC.
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518 Little Road
Lake City, Florida 32024
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davis@simque.com

C.A. BOONE CONSTRUCTION, LLC.
OFFICE BUILDING

970 S.W. Arlington Boulevard
Lake City, Florida 32025

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS

REVISIONS

#	DATE	REMARKS

PROJECT NUMBER

AW24021

PHASE

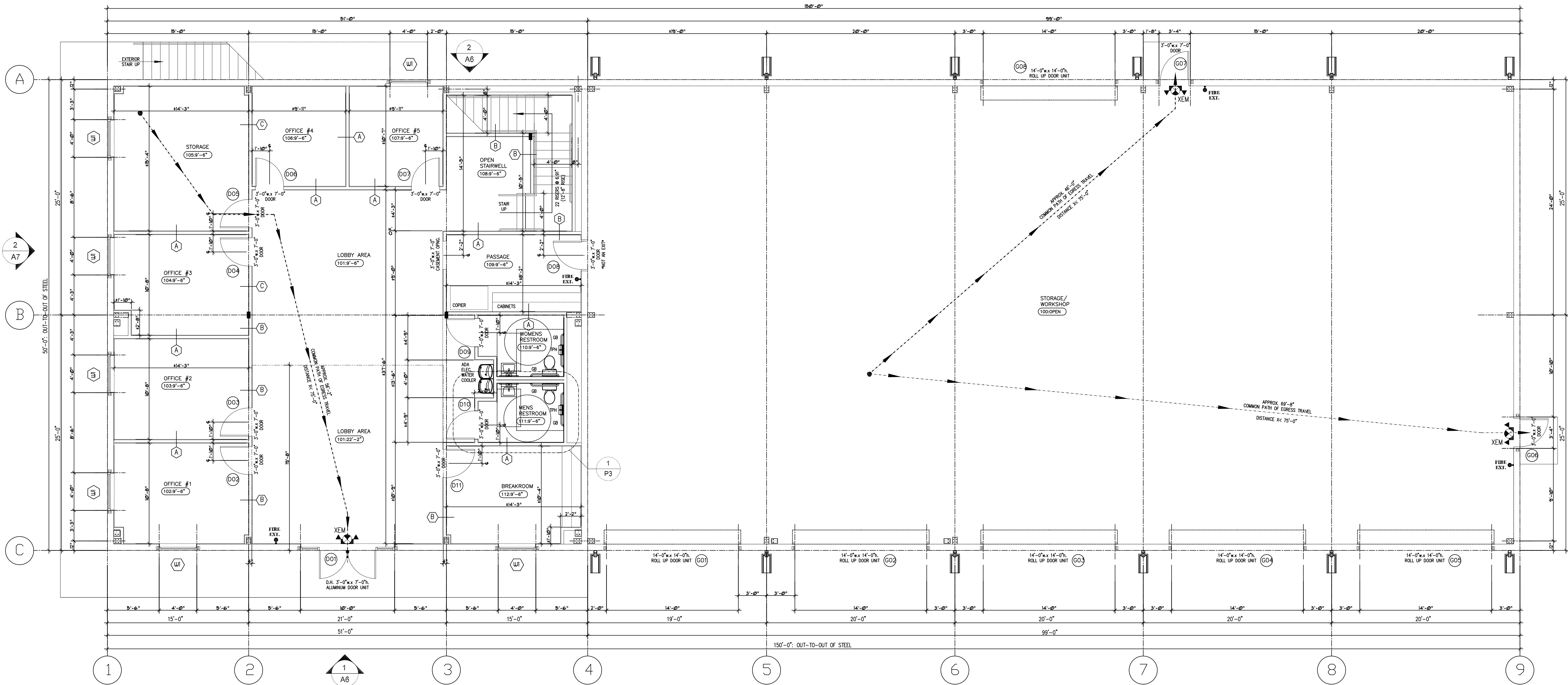
RELEASE FOR PERMIT

SHEET TITLE

COVERSHEET,
BUILDING DATA, CODE
SUMMARY, VICINITY &
LOCATION MAPS

SHEET NUMBER

A0

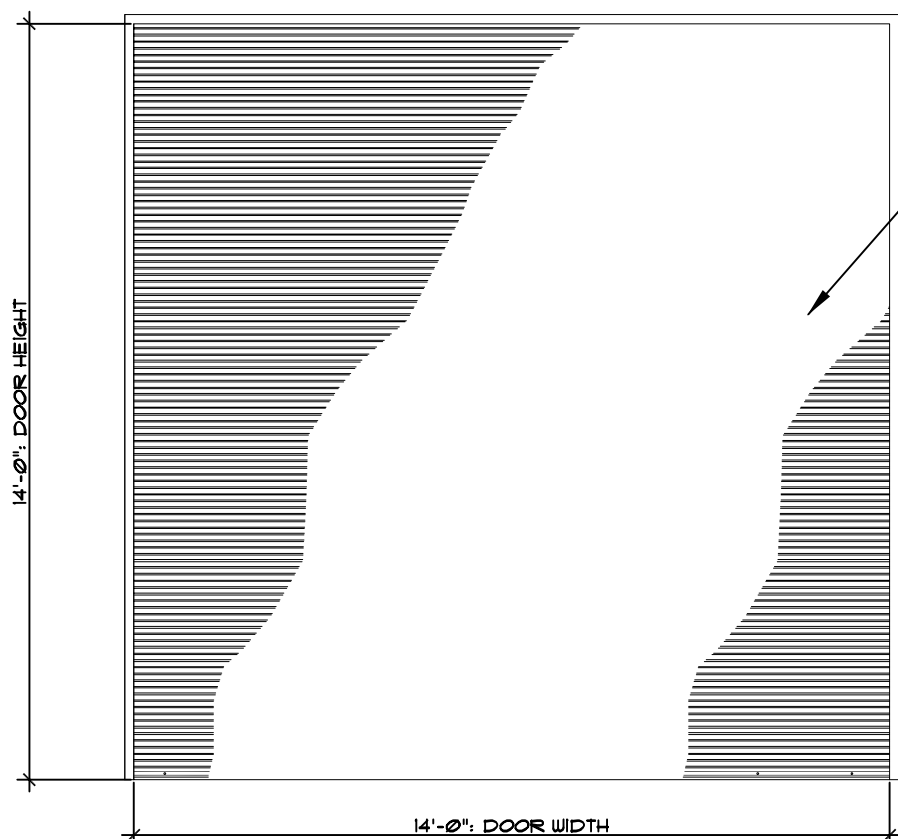


LEGEND:

- PERIMETER WALL DENOTES 5/8" GYPSUM WALL BOARD TO INTERIOR DIRECTLY ATTACHED TO MTL. BUILDING GIRTS
- DENOTES 3 5/8" MIN. 20ga. MTL STUD WALL @ 16" O.C. w/ 5/8" GYPSUM WALL BOARD EA. SIDE UP TO 10'-0" HEIGHT; PAINT
- DENOTES DOOR TAG (SEE DOOR SCHEDULE)
- DENOTES WINDOW TAG (SEE WINDOW SCHEDULE)
- DENOTES COMMON PATH OF EGRESS TRAVEL FROM FURTHEST DISTANCE
- POINT OF ORIGIN

OVERALL NEW FIRST FLOOR PLAN

3/16" = 1'-0"



ROLL-1

DOOR ELEVATIONS

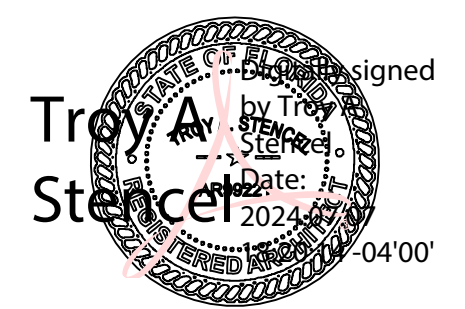
3/8" = 1'-0"

14'-0" x 14'-0" OVERHEAD DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: COLOR AS SELECTED BY OWNER

DOOR SCHEDULE

NO.	ROOMNAME	TYPE				MATERIAL		THICK-NESS	DETAIL			FINISH		LABEL	HDWE. SET	REMARKS
		DOOR	FRM	H	W	DOOR	FRM		SILL	JAMB	HEAD	DOOR	FRM			
G01	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER
G02	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER
G03	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER
G04	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER
G05	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER
G06	STORAGE/ WAREHOUSE	MTL-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	-	-	PNT	PNT	-	-	DOOR SHALL BE FLUSH METAL FIRE RATED DOOR: 90 MIN. FIRE-RATING: PROVIDE CLOSER
G07	STORAGE/ WAREHOUSE	MTL-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	-	-	PNT	PNT	-	-	DOOR SHALL BE FLUSH METAL FIRE RATED DOOR: 90 MIN. FIRE-RATING: PROVIDE CLOSER
G08	STORAGE/ WAREHOUSE	ROLL-1	FAC.	14'-0"	14'-0"	STEEL	STEEL	-	-	-	-	FAC.	FAC.	-	-	OVERHEAD ROLL-UP DOOR: ROLLING STEEL SHEET DOOR EQUAL TO PROSTAR 180CD: FACTORY FINISH: COLOR AS SELECTED BY OWNER

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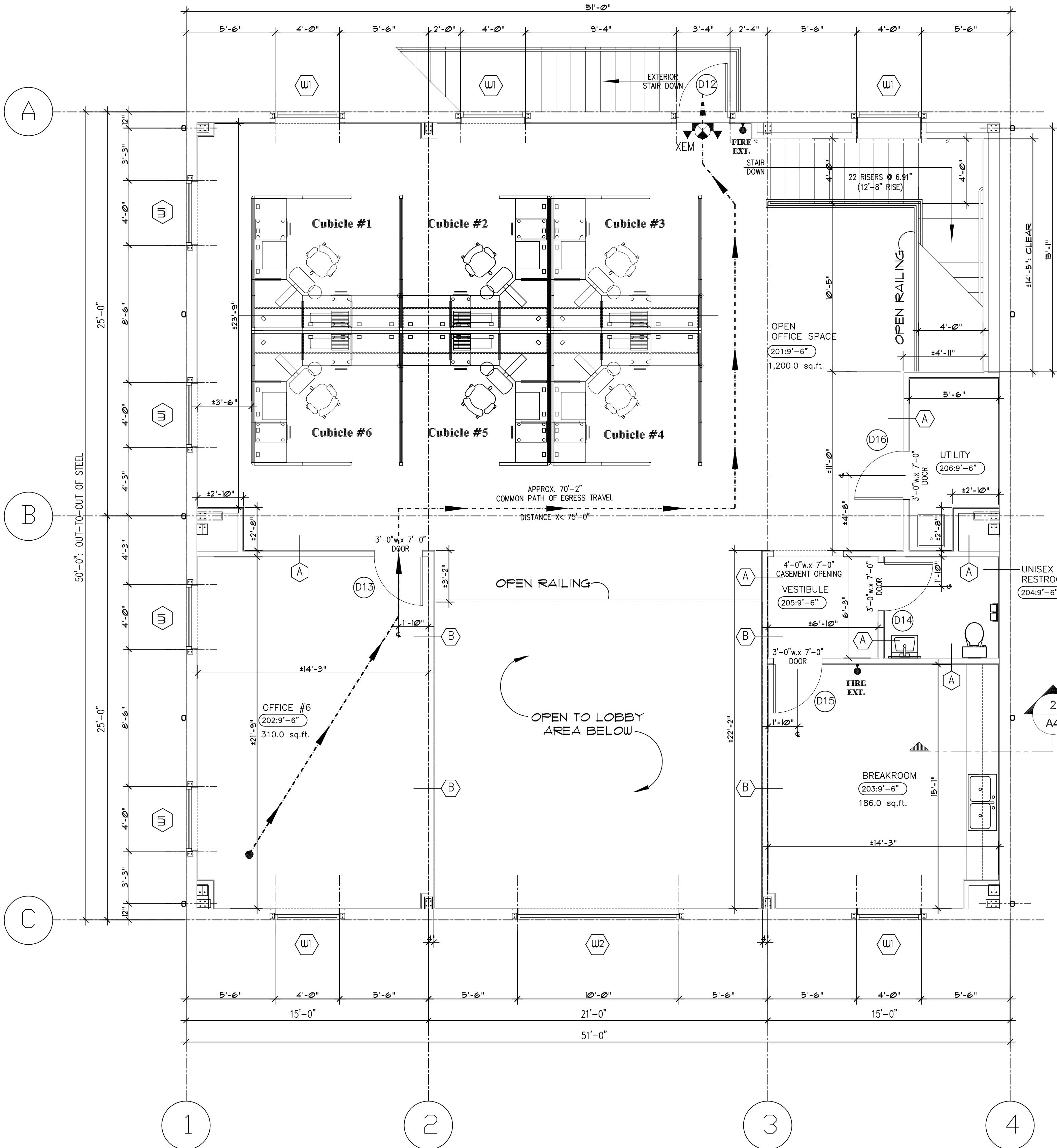
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SHEET TITLE

NEW OVERALL FIRST FLOOR PLAN

SHEET NUMBER

A1

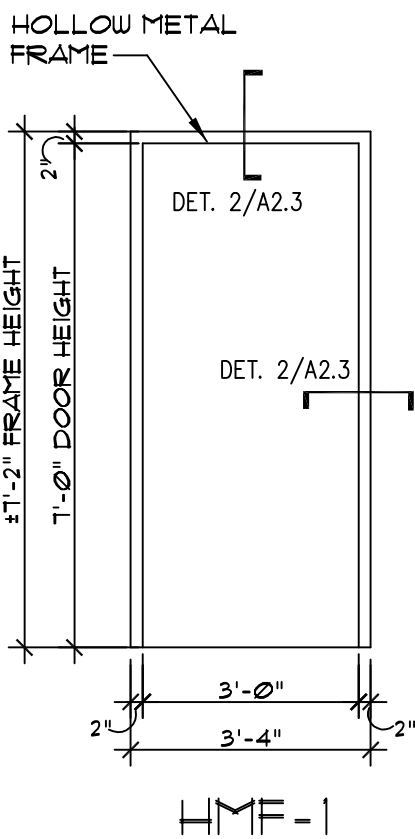


LEGEND:

- PERIMETER WALL DENOTES 5/8" GYPSUM WALL BOARD TO INTERIOR DIRECTLY ATTACHED TO MTL. BUILDING GIRTS
- DENOTES 3 5/8" MIN. 20ga. MTL STUD WALL @ 16" O.C. w/ 5/8" GYPSUM WALL BOARD EA. SIDE UP TO 10'-0" HEIGHT; PAINT
- DENOTES DOOR TAG (SEE DOOR SCHEDULE)
- DENOTES WINDOW TAG (SEE WINDOW SCHEDULE)
- DENOTES COMMON PATH OF EGRESS TRAVEL FROM FURTHEST DISTANCE

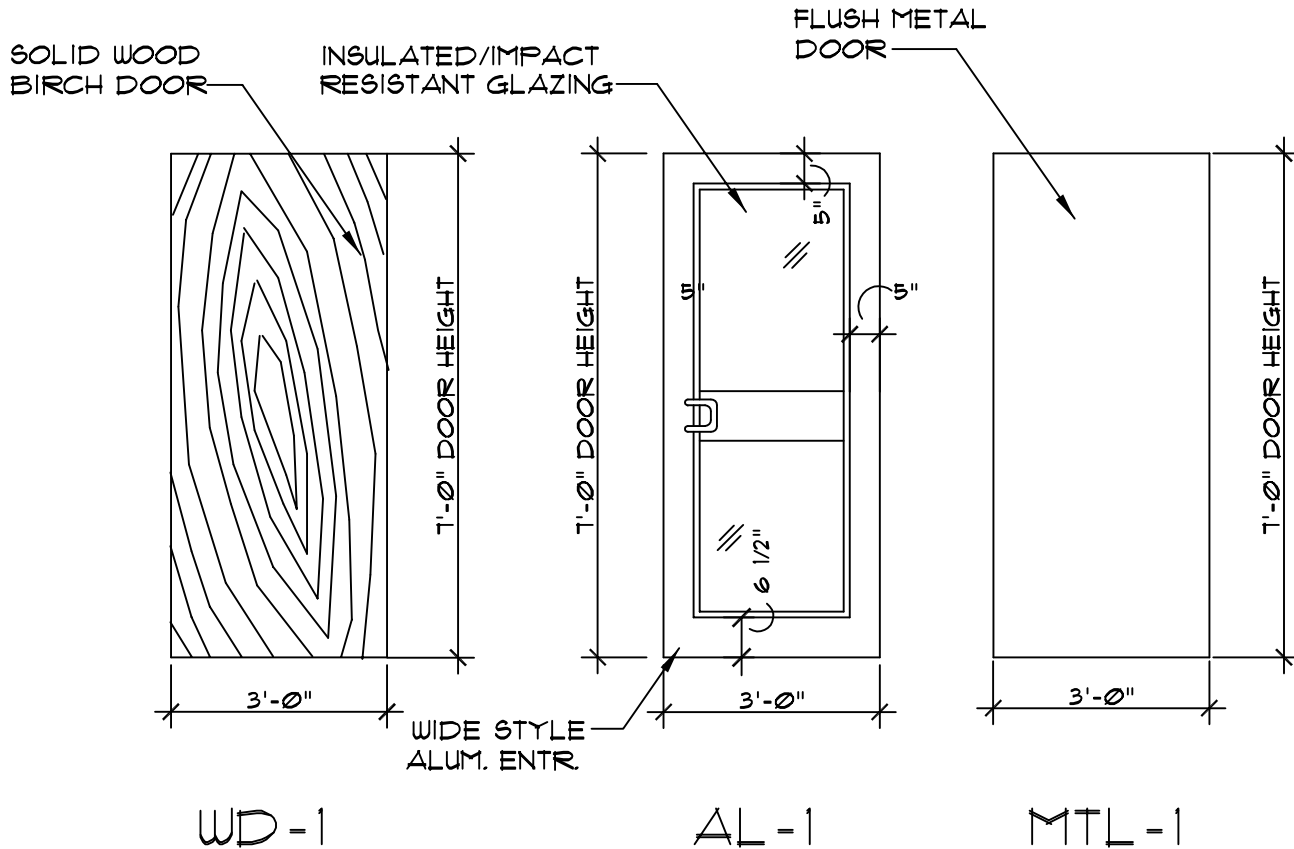
NEW SECOND FLOOR PLAN GENERAL NOTES:

- A. MISCELLANEOUS:
- THE FLAME SPREAD/SMOKE DEVELOPED INDEX CLASSIFICATION REQUIRED FOR INTERIOR OFFICE FINISHES IS CLASS 'C' WITH A FLAME SPREAD INDEX 16-200 & SMOKE DEVELOPED INDEX 0-450 PER 2023 FBC - BUILDING (8th EDITION), SECTION 803.11- INTERIOR WALL & CEILING FINISH MATERIALS.
 - NEW TYPE 'A' WALLS ARE 10'-0" H, NON-LOAD BEARING INTERIOR FRAMED WALLS TO BE 3 5/8" MTL STUDS @ 16" O.C. w/ 5/8" THK LAYER GYPSUM BD. EACH SIDE - PAINT. GYPSUM BOARD ATTACHED TO STUDS & P.T. BASE PLATE w/ TYPE 'S' PAN HEAD SCREWS. SECURE BASE PLATE TO CONCRETE FLOOR @ 24" O.C. WITH 'RAMBET', 3/4" TRAKFAST PINS (18" H).
 - NEW METAL SUSPENDED SYSTEM GRID WITH ACOUSTICAL CEILING TILE THROUGHOUT AT 9'-6" AFF. IN FINISHED AREAS.
 - NEW INTERIOR WALLS TO RECEIVE ONE (1) PRIMER AND TWO (2) FINISH COATS OF SEMI-GLOSS PAINT-SHERWIN WILLIAMS: ALABASTER WHITE, OR AS SELECTED BY OWNER.
 - NEW FLOORING FOR OFFICE, BREAKROOM, OPEN AREA & RESTROOM TO BE LUXURY VINYL TILE (L.V.T.) EQUIVALENT TO SHAW MATRIX-SEA SALT HICKORY. 4" VINYL COVE BASE THROUGHOUT- GRAY (COLORS AS SELECTED BY OWNER)
 - PROVIDE ALL NEW INTERIOR DOOR UNITS & HARDWARE. ALL NEW INTERIOR DOOR SIZES AS LABELED ON PLANS AND/OR DOOR SCHEDULE.
 - PROVIDE WALL MOUNTED ABC FIRE EXTINGUISHERS AS LOCATED ON NEW FLOOR PLAN.
 - LATCHES & LOCKS: REAR ENTRY DR. UNIT TO BE INSTALLED WITH PANIC HARDWARE & CLOSER.
 - PROVIDE NEW LAY-IN 2'x2' & 2'x4' LED LIGHT FIXTURES- SEE NEW CEILING LAYOUT & LIGHTING PLAN, SHEET VELL.
 - PROVIDE R-13, 3 1/2" BATT INSULATION IN ALL FRAMED INTERIOR METAL STUD WALLS.



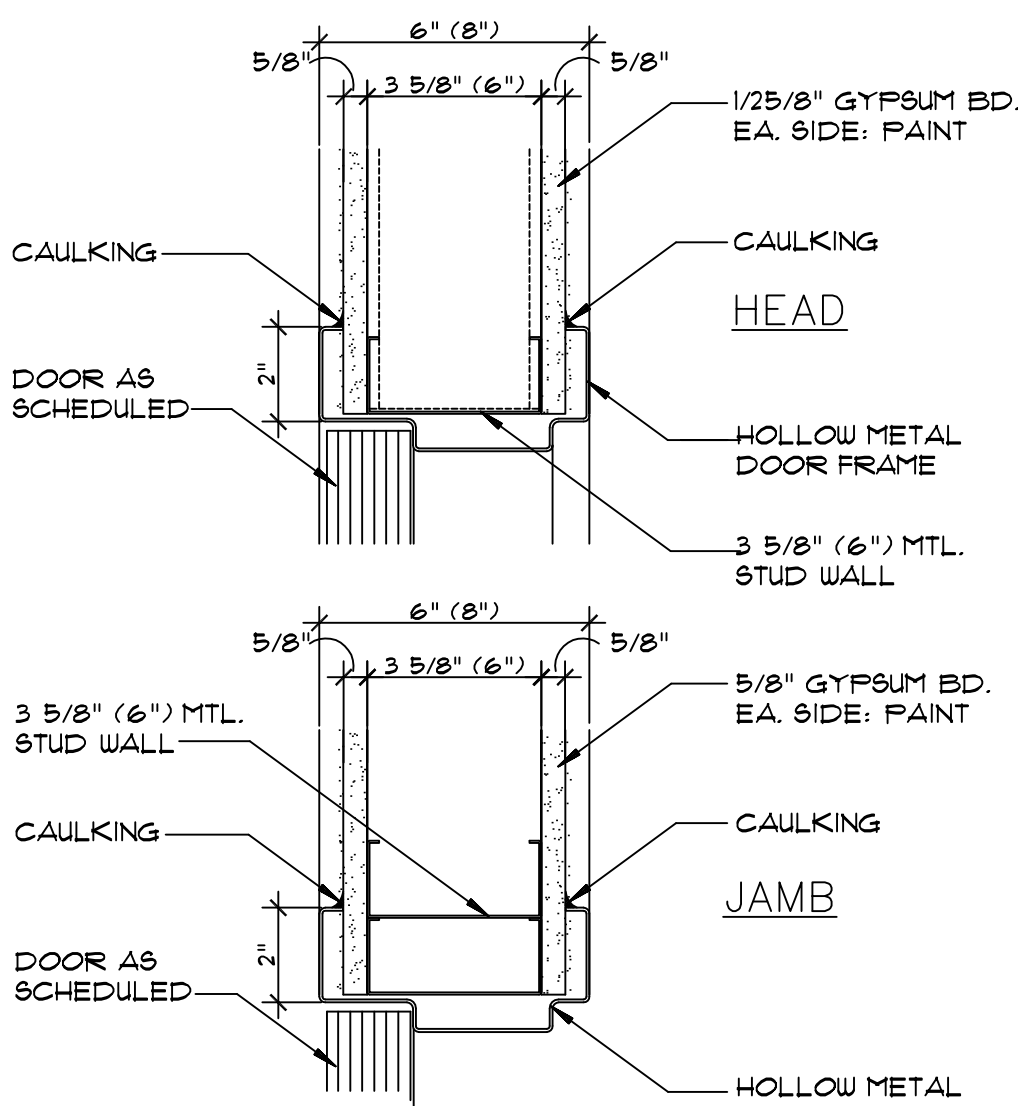
DOOR FRAME TYPES

3/8" - 1'-0"



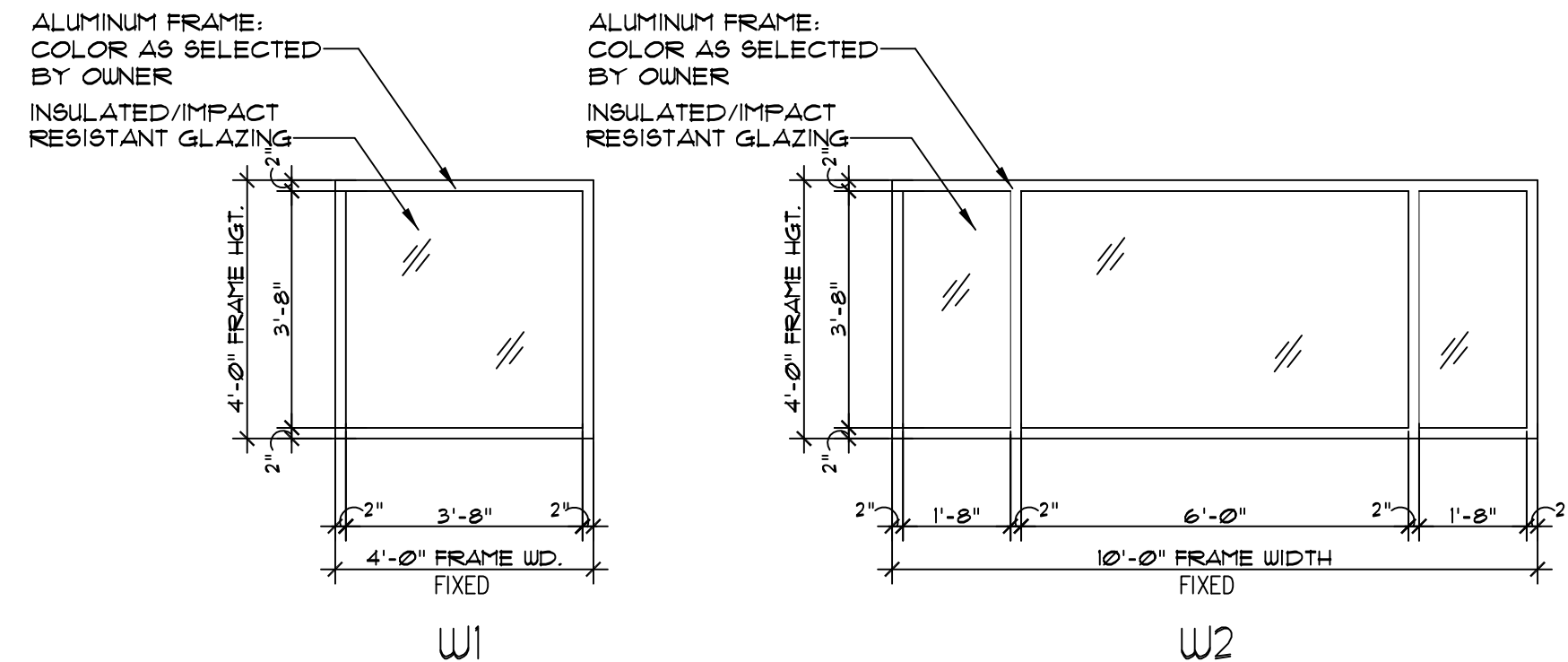
DOOR ELEVATIONS

3/8" - 1'-0"



INT. MTL. STUD & G.W.B. DOOR DETAIL

NOT TO SCALE



EXTERIOR WINDOW TYPES

3/8" - 1'-0"

DOOR SCHEDULE													
NO.	ROOMNAME	TYPE			MATERIAL		THICK-NESS	DETAIL			FINISH		REMARKS
		DOOR	FRM	H	DOOR	FRM		SILL	JAMB	HEAD	DOOR	FRM	
D12	OPEN OFFICE AREA	AL-1	ALUM-1	7'-0"	3'-0"	ALUM.	ALUM.	1-3/4"	-	-	IOD.	IOD.	-
D13	OFFICE #6	WD-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	2/A3	2/A3	VRN	PNT
D14	UNISEX RESTROOM	WD-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	2/A3	2/A3	VRN	PNT
D15	BREAKROOM	WD-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	2/A3	2/A3	VRN	PNT
D16	UTILITY	WD-1	HMF-1	7'-0"	3'-0"	WOOD	STEEL	1-3/4"	-	2/A3	2/A3	VRN	PNT

WINDOW SCHEDULE											
NO.	LOCATION	TYPE				MATERIAL	DETAIL			FINISH	REMARKS
		WIN	FRM	W	H	FRAME	SILL	JAMB	HEAD	FRAME	
W1	OFFICES, BREAKROOM & STORAGE	WIN "A"	ALUM	4'-0"	4'-0"	ALUM.	-	-	-	IOD.	GLAZING ASSEMBLIES SHALL BE IMPACT RESISTANT AND INSULATED: COMPRISED OF TWO PANES OF GLASS SEPARATED BY 1/2" AIR SPACE. THE EXTERIOR PANE SHALL BE 1/4" TINTED TEMPERED W/ A LOW-EMISSION COATING ON THE NO. 2 SURFACE. THE INTERIOR PANE SHALL BE CLEAR, LAMINATED (VIBRON GLASS, WINDOW SILL, SOLID SURFACE, WHITE, BOD, PLANT, JO, FIBRUX, LUMA, BRIGHT WHITE, F&S OR COBAN SPARKING WHITE). GLAZING ASSEMBLIES SHALL BE IMPACT RESISTANT AND INSULATED: COMPRISED OF TWO PANES OF GLASS SEPARATED BY 1/2" AIR SPACE. THE EXTERIOR PANE SHALL BE 1/4" TINTED TEMPERED W/ A LOW-EMISSION COATING ON THE NO. 2 SURFACE. THE INTERIOR PANE SHALL BE CLEAR, LAMINATED (VIBRON GLASS, WINDOW SILL, SOLID SURFACE, WHITE, BOD, PLANT, JO, FIBRUX, LUMA, BRIGHT WHITE, F&S OR COBAN SPARKING WHITE).
W2	OPEN LOBBY AREA (SECOND FLOOR LEVEL)	WIN "B"	ALUM	10'-0"	4'-0"	ALUM.	-	-	-	IOD.	

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Troy Anthony Stencel

Professional Seal

Designated
Date: 7/1/2024
Expire: 7/1/2027
04'00"

TROY ANTHONY STENCEL
FLORIDA ARCHITECT #A99221

GENERAL CONTRACTOR:
SIMQUE CONSTRUCTION, LLC.

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RELEASE FOR PERMIT

SHEET TITLE
NEW OFFICE
SECOND FLOOR PLAN,
DOOR, WINDOW & FINISH
SCHEDULES & NOTES

SHEET NUMBER
A3

ROOM FINISH SCHEDULE- FIRST FLOOR

	ROOM NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
		MATERIAL	MATERIAL	MATERIAL	MATERIAL	HGT.	
100	STORAGE/ WORKSHOP	SEALED CONCRETE FLOOR SLAB (Water-based sealer)		EXPOSED METAL BUILDING FRAME & GIRTS (EXTERIOR METAL WALL PANEL)	n/a	OPEN	
101	OFFICE LOBBY AREA	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	22'-2" 9'-6"	
102	OFFICE #1	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
103	OFFICE #2	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
104	OFFICE #3	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
105	STORAGE	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
106	OFFICE #4	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
107	OFFICE #5	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
108	STAIRWELL	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
109	PASSAGE	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
110	WOMEN'S RESTROOM	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted/Tile on wet walls)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	- Provide blocking in walls for plumbing fixtures & toilet accessories. - Soundproof, NC 40.
111	MEN'S RESTROOM	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted/Tile on wet walls)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	- Provide blocking in walls for plumbing fixtures & toilet accessories. - Soundproof, NC 40.
112	BREAKROOM	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	

NOTES:

ROOM FINISH SCHEDULE- SECOND FLOOR

	ROOM NAME	FLOOR	BASE	WALLS	CEILING		REMARKS
		MATERIAL	MATERIAL	MATERIAL	MATERIAL	HGT.	
201	OPEN OFFICE AREA	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
202	OFFICE #6	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
203	BREAKROOM	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
204	UNISEX RESTROOM	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted/Tile on wet walls)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	- Provide blocking in walls for plumbing fixtures & toilet accessories. - Soundproof, NC 40.
205	VESTIBULE	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	
206	UTILITY	LUXURY VINYL TILE (As selected by owner)	4" COVED VINYL/ RUBBER BASE	GYPSUM WALL BOARD (GWB) (Painted)	2x 2' ACOUSTICAL CEILING TILE	9'-6"	

NOTES:

GENERAL INTERIOR FINISH NOTES:

A. INTERIOR WALLS:

- INTERIOR WALLS SHALL BE CONSTRUCTED USING 3 5/8" METAL STUDS AND 5/8" GYPSUM BOARD, OR AS INDICATED ON DRAWINGS. USE 20-GAUGE MINIMUM METAL STUDS. CONTRACTOR SHALL DETERMINE STUD GAGE AND SPACING REQUIRED TO ACHIEVE A MAXIMUM DEFLECTION OF L/240 BASED ON A UNIFORM LOAD OF 10 psf. MAXIMUM STUD SPACING SHALL BE 16" O.C.
- IN RESTROOM, GYPSUM WALLBOARD TO BE 5/8" TAPERED EDGE, GREEN BOARD'. INSTALLATION ON WALLS TO BE w/ 3/8" BEAD OF ADHESIVE AND SCREWS. SCREWS SHALL NOT BREAK THE FACE OF THE PAPER.
- ON ALL WALL TYPES, GYPSUM WALLBOARD TO BE 5/8" TAPERED EDGE, TYPE 'X', TO TOP METAL STUD FRAMED WALL. INSTALLATION ON WALLS TO BE WITH 3/8" BEAD OF ADHESIVE AND SCREWS. SCREWS SHALL NOT BREAK THE FACE OF THE PAPER.
- ALL DRYWALL SHALL CONFORM TO ASTM C36, C414, AND C415, AND SHALL BE INSTALLED ACCORDING TO ASTM C551. INSTALL DRYWALL ONLY AFTER WEATHER PROTECTION HAS BEEN APPROVED. INSTALLATION WILL BE IN ACCORDANCE WITH THE GYPSUM ASSOCIATION RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD.
- ALL DRYWALL TO HAVE TWO-COAT TAPE AND SPACKLE PROCESS. FLEX TAPE SHALL BE USED WHERE NECESSARY.
- ALL ELECTRICAL OPENINGS TO BE TRIMMED WITH CLOSE TOLERANCES TO OUTLET BOXES.

B. INTERIOR DOORS & FRAMES:

- STANDARD INTERIOR DOORS SHALL BE FLUSH SOLID CORE WOOD DOORS WITH GOOD OR BETTER GRADE BIRCH VENEER. CONFORM TO NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWDA) 18-1A. STILE EDGES SHALL BE NON-FINGER JOINTED HARDWOOD COMPATIBLE WITH FACE VENEER. PROVIDE AWI GRADE A HARDWOOD FACE VENEER FOR TRANSPARENT FINISHED DOORS.
- METAL DOOR FRAMES SHALL BE WELDED 16-GAUGE STEEL.
- DOORS SHALL BE FIRE-RATED AS REQUIRED.
- UNLESS OTHERWISE INDICATED ALL INTERIOR DOORS WILL BE 3-FOOT BY 1- FOOT FOR SINGLE DOORS.
- INTERIOR DOOR HARDWARE:
 - OFFICE DOORS: PROVIDE MORTISE CLASSROOM F05 FUNCTION LOCKSETS, HINGES, SILENCERS, AND MOP PLATES.
 - RESTROOM DOORS: PROVIDE MORTISE PRIVACY LOCKSET, INDICATING OCCUPANCY, CLOSERS, HINGES, SILENCERS AND MOP PLATES.
 - SERVICE AND UTILITY ROOM DOORS: PROVIDE MORTISE CLASSROOM F05 FUNCTION LOCKSET, CLOSERS AT FIRE RATED DOORS, HINGES, SILENCERS AND MOP PLATES.

C. FLOORING:

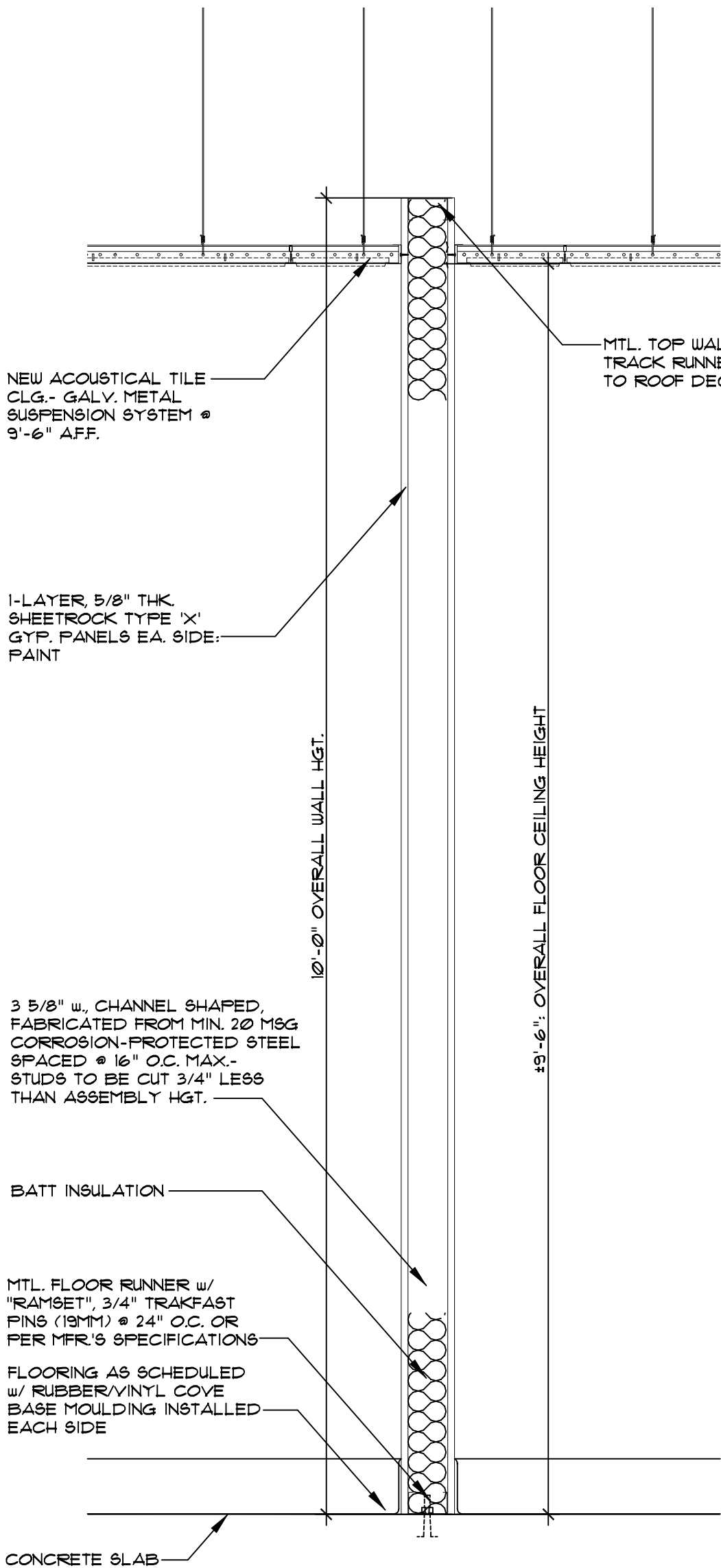
- LUXURY VINYL TILE (LVT) FLOORING THROUGHOUT. LUXURY VINYL TILE (LVT) FLOORING TO BE EQUAL TO SHAW MATRIX WITH ADVANCE FLEX TECHNOLOGY. COLOR- SEA SALT HICKORY (OR AS SELECTED BY OWNER, 6" WIDE x 3-1/5 MM THICK- WATERPROOF INTERLOCKING LUXURY VINYL PLANK FLOORING.
- BEFORE INSTALL LUXURY VINYL TILE FLOORING OVER CONCRETE SLAB, CONCRETE SLAB MUST NOT SHOW ANY SIGNS OF MOISTURE OR ALKALI. ALL CONCRETE SUBFLOORS SHOULD BE TESTED FOR MOISTURE CONTENT. TEST SEVERAL AREAS, ESPECIALLY NEAR EXT. WALLS AND WALLS CONTAINING PLUMBING. WHEN INSTALLING, USE A MOISTURE BARRIER SHEETING AS SPECIFIED OR RECOMMENDED BY THE MANUFACTURER.
- SEALED CONCRETE FLOOR SLAB: CONFIRM WITH OWNER IF STORAGE/WAREHOUSE ALL CONCRETE FLOOR SLAB IS TO BE SEALED WITH A WATER-BASED SEALER.
- WALL BASE: PROVIDE COVED VINYL/RUBBER BASE, MINIMUM 4-INCH TALL AND 1/8-INCH THICK.

D. PAINTING:

- ALL PAINTING WILL BE DONE SO AS TO HAVE EVEN AND THOROUGH COVERAGE, CRISP EDGES, AND MINIMAL APPLICATOR MARKS.
- DRYWALL TO RECEIVE ONE COAT LATEX PRIMER AND TWO COATS MINIMUM LATEX SEMI-GLOSS FINISH PAINT: SHERWIN WILLIAMS', COLOR: ALABASTER WHITE (OR AS SELECTED BY OWNER).

E. MISCELLANEOUS:

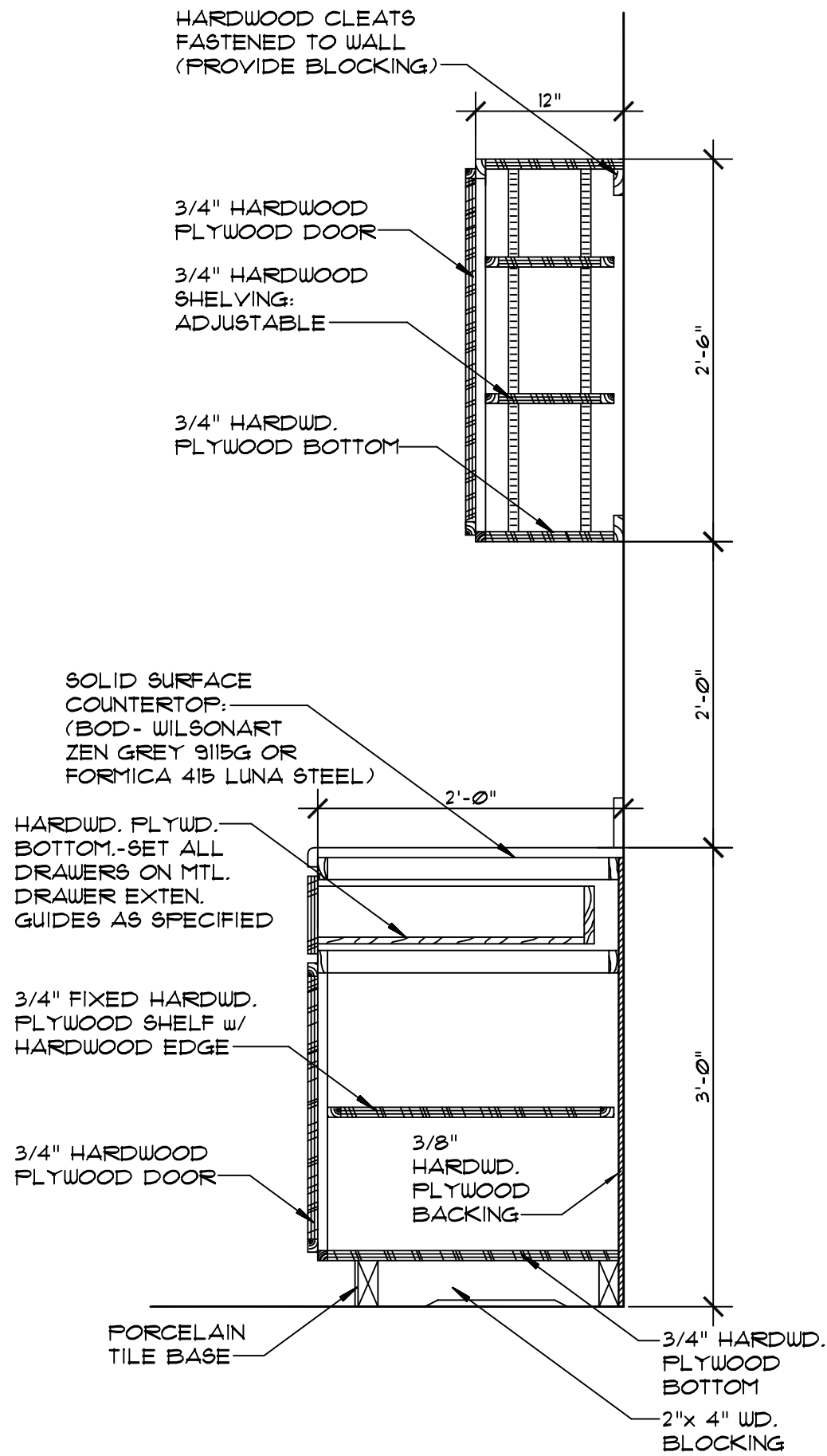
- PROVIDE SOLID SURFACE WINDOW SILLS AT ALL WINDOW SILL LOCATIONS.



GENERAL CASEWORK NOTES:


A. MISCELLANEOUS:

- SEE FINISH SCHEDULE REQUIREMENTS FOR EACH OF THE INTERIOR ROOMS AND IDENTIFIABLE AREAS.
- MATERIALS AND CONSTRUCTION OF CABINETS AND COUNTERTOPS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL WOODWORK INSTITUTE (AWI) QUALITY STANDARDS 'AWI CUSTOM GRADE' WITH PLASTIC LAMINATE FINISH UNLESS NOTED OTHERWISE. CONFORM TO THE TOLERANCES ALLOWED IN THE AWI REFERENCED STANDARD. PROVIDE FLUSH OVERLAY CASEWORK. MELAMINE IS NOT ALLOWED.
- WALL AND BASE CABINETS SHALL BE OF THE SAME CONSTRUCTION AND APPEARANCE WITH SOLID ENDS AND FRAME FRONTS, OR WITH FRAMES ALL AROUND. FRAMES SHALL BE NOT LESS THAN 3/4-INCH BY 1-1/2-INCHES HARDWOOD. ALL ENDS, BOTTOMS, BACKS, AND PARTITIONS SHALL BE HARDWD. PLYWOOD. ALL DRAWERS WILL INCLUDE SOLID WOOD RAILS AND PLYWOOD BOTTOMS. INTERIOR OF DRAWERS CAN BE LAMINATE OR NATURAL FINISH. CABINET DOORS AND DRAWER FRONTS SHALL HAVE HARDWOOD PLYWOOD CORES. DOVETAIL CONSTRUCTION SHOULD BE USED ON ALL CORNERS. EDGES OF EXPOSED PLYWOOD SHALL BE FINISHED.
- HARDWARE: PROVIDE CABINET HARDWARE INCLUDING MINIMUM TWO SELF-CLOSING HINGES FOR EACH DOOR AND TWO SIDE-MOUNTED METAL DRAWER SLIDES FOR EACH DRAWER AND FULLS FOR ALL DOORS AND DRAWERS AS FOLLOWS. ALL CABINET HARDWARE EXPOSED TO VIEW SHALL BE ANSI/BHMA 156.9, GRADE 1, AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - CONCEALED EURO-STYLE BACK MOUNTED HINGES WITH OPENING TO 165 DEGREES AND A SELF-CLOSING FEATURE AT LESS THAN 90- DEGREES.
 - DRAWER SLIDES SHALL HAVE A STATIC RATING CAPACITY OF 100- POUNDS (444N). FULL EXTENSION, SELF-CLOSING.
 - PROVIDE ADJUSTABLE SHELVEING STANDARDS WITH SHELVE SUPPORT HARDWARE FOR ALL CABINETS.
 - PROVIDE HEAVY-DUTY MAGNETIC LATCH AND DOOR AND DRAWER
- COUNTERTOPS SHALL BE AS INDICATED ON THE DRAWINGS AND WILL BE 100% SOLID ACRYLIC SURFACE MATERIAL AT ALL WET AREAS INCLUDING RESTROOMS AND BREAKROOM AREAS WITH SINKS.



BREAKROOM CASEWORK SECTION


NOT TO SCALE



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Troy Anthony Stencel
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SUBMITTAL			
PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS

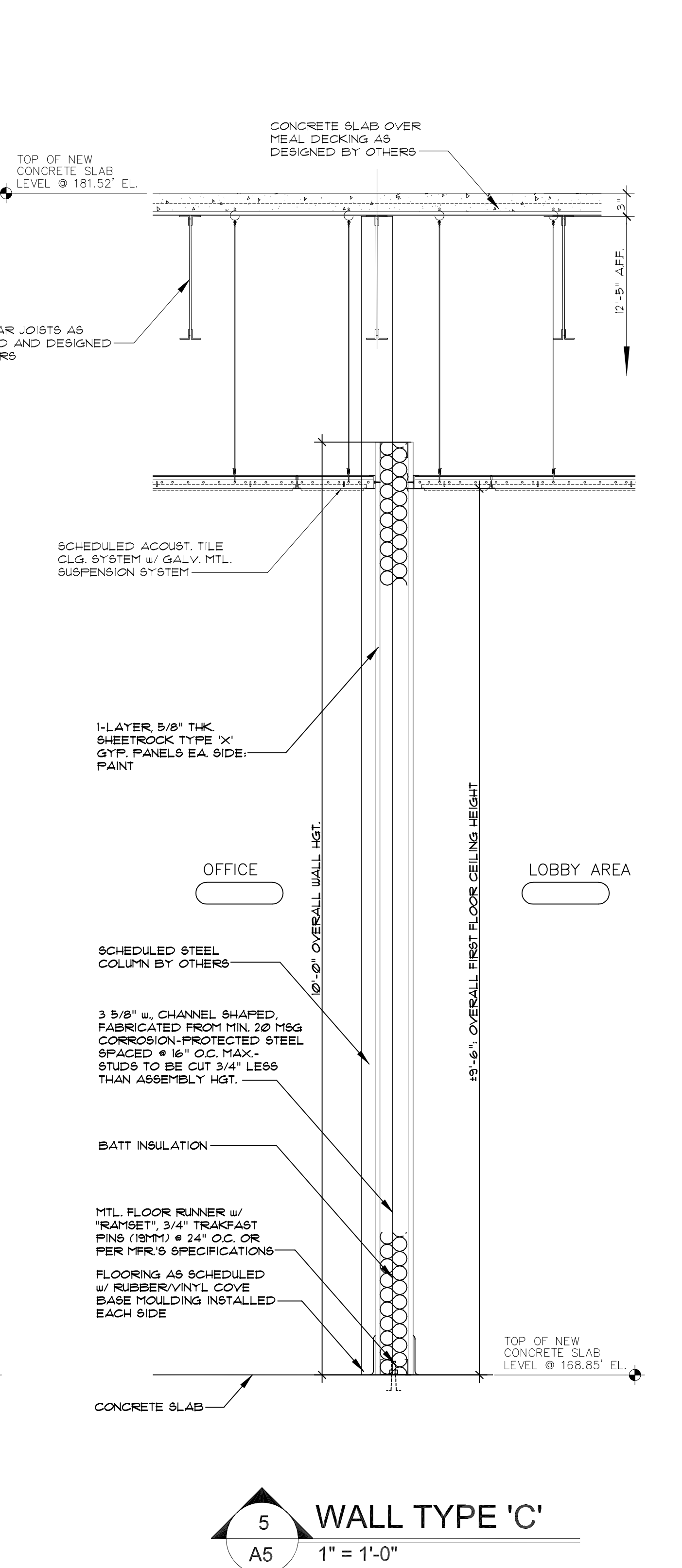
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#	DATE	REMARKS

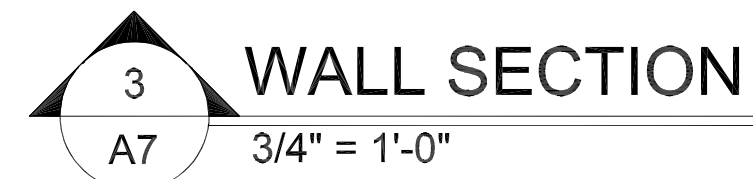
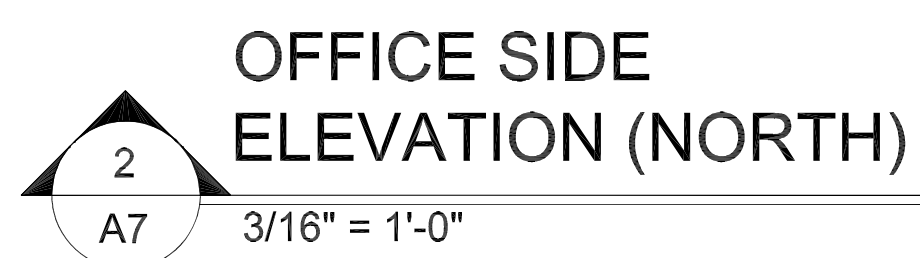
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AW24021

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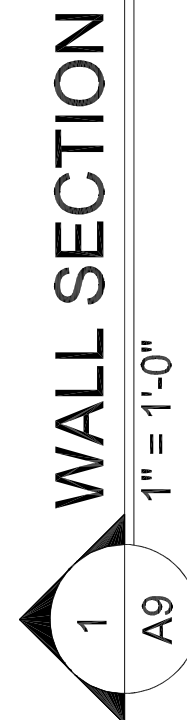
SHEET TITLE
FINISH SCHEDULE, DETAILS & NOTES

SHEET NUMBER
A4









SHEET NUMBER

A9

970 S.W. Arlington Boulevard
Lake City, Florida 32025

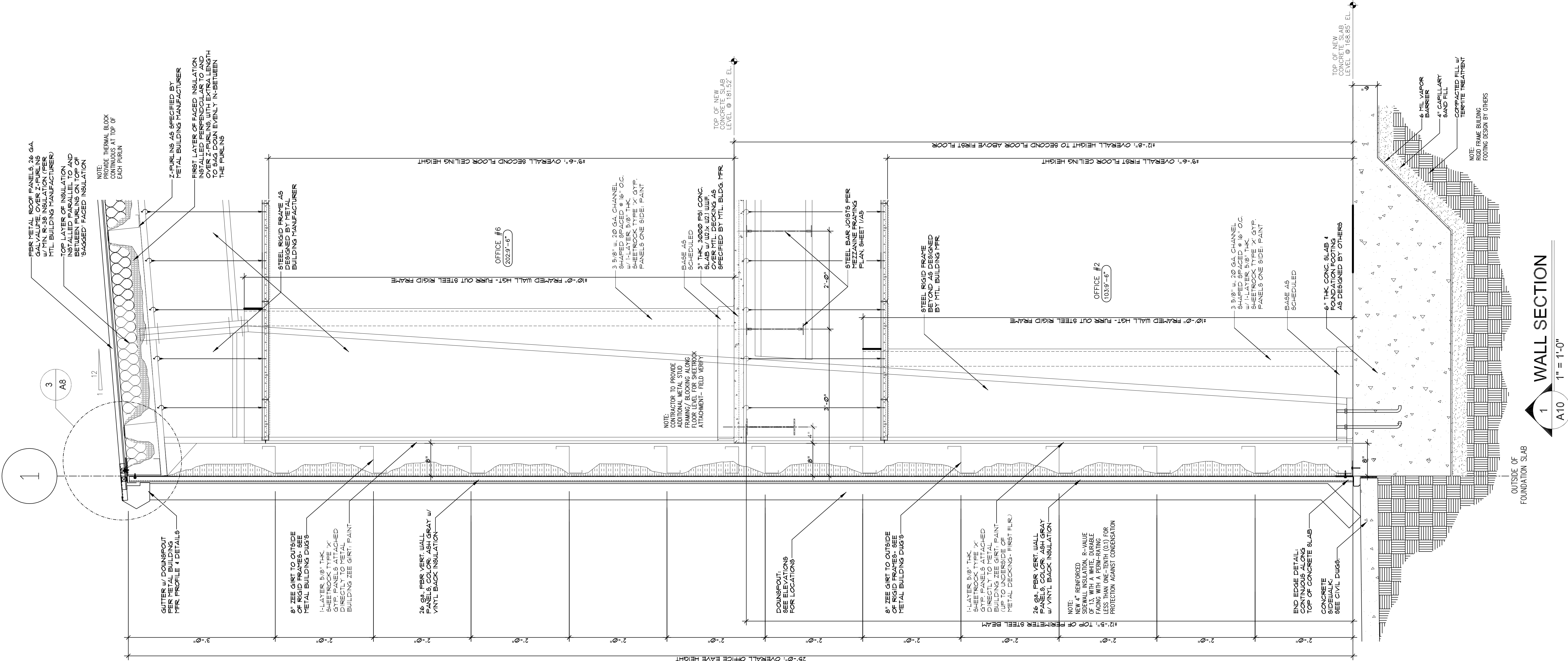
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TROY ANTHONY STENCEL
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OFFICE BUILDING

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PROJECT NUMBER

AW24021

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SHEET TITLE

NEW WALL SECTION

SHEET NUMBER

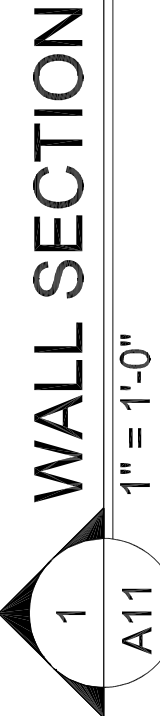
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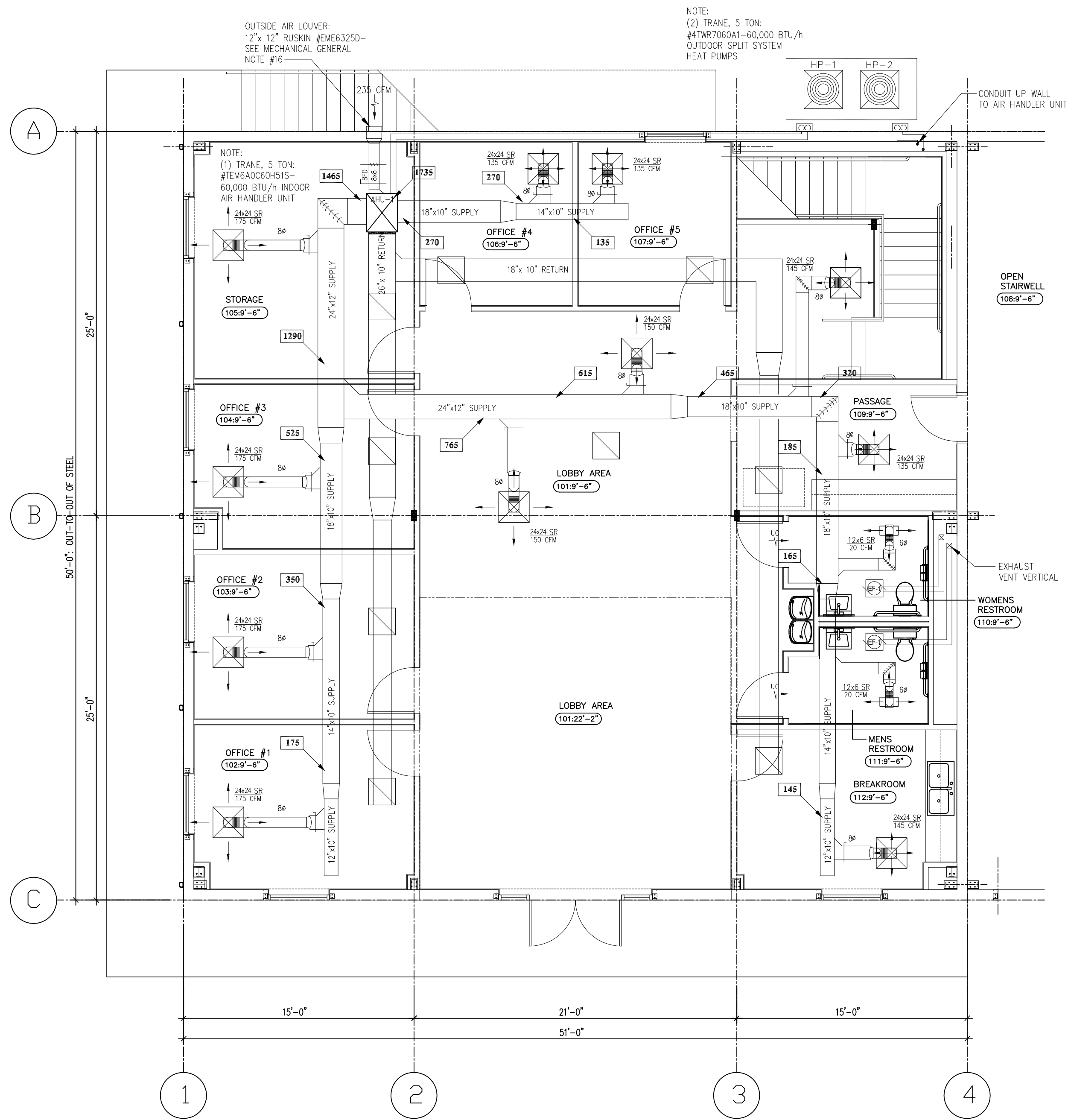
REVISIONS

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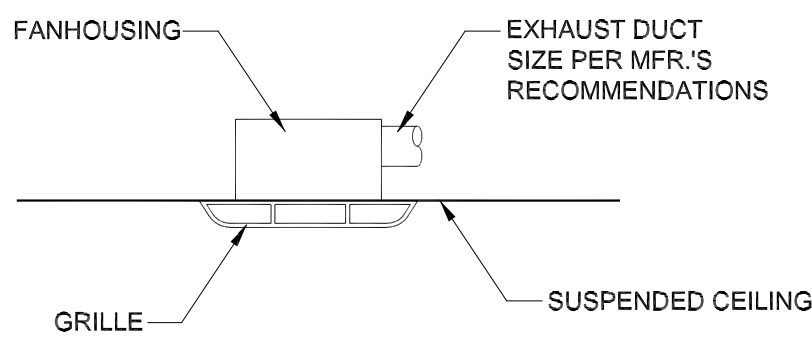


OFFICE: FIRST FLOOR MECHANICAL PLAN

M1 3/16" = 1'-0"

LEGEND:

- NEW BATHROOM EXHAUST FAN
- NEW THERMOSTAT
- NEW 2' x 2' SUPPLY AIR DIFFUSER IN ACOUSTICAL CEILING
- NEW 2' x 2' RETURN AIR DIFFUSER IN ACOUSTICAL CEILING
- NEW 2' x 2' METAL SUSPENDED GRID AT 9'-6" AFF.
- NEW HVAC DUCTWORK (SUSPENDED FROM STRUCTURE)
- UNDERCUT THE DOOR UNIT (3/4" UNDERCUT)



EXHAUST FAN DETAIL

M1 NOT TO SCALE

MECHANICAL GENERAL NOTES:

A MISCELLANEOUS:

1. ZONE THE HVAC SYSTEMS TO PROVIDE MAXIMUM YEAR-ROUND COMFORT AND ADEQUATE FLEXIBILITY.
2. INCLUDE ALL REQUIRED FITTINGS, CONNECTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE AND USABLE SYSTEM. ALL CONDENSATE DRAIN PANS SHALL BE STAINLESS-STEEL.
3. ARRANGE THE HVAC EQUIPMENT TO FIT PROPERLY WITHIN THE ROOM AS INDICATED. CONSIDER PROPER MAINTENANCE CLEARANCES AROUND ALL EQUIPMENT INCLUDING COIL FULL SPACE, AND OBSERVANCE OF THE "DEDICATED ELECTRICAL SPACE" AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, AS WELL AS THE MINIMUM CLEARANCE REQUIREMENTS SET FORTH IN THE INTERNATIONAL MECHANICAL CODE AND THE MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES.
4. MECHANICAL LAYOUTS ARE SCHEMATIC. PROVIDE ANY ADDITIONAL DROPS, RISERS, OFFSETS OR TRANSITIONS REQUIRED FOR COMPLETE INSTALLATION. COORDINATE LOCATION OF CEILING MOUNTED WORK WITH LIGHTS, PLUMBING AND OTHER OBSTRUCTIONS.
5. INSTALL EQUIPMENT AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
6. CONTRACTOR TO INSTALL TWO (2) 5.0 TON-17 SEER, TRANE AIR HANDLERS & CONDENSERS. AIR HANDLERS TO BE TRANE #TMR1060A1 & CONDENSERS TO BE TRANE #TMR1060A1. CONTRACTOR TO LOCATE ALL SUPPLY & RETURN AIR GRILLES IN CEILING-COORDINATE LOCATION WITH OTHER TRADES.
7. AIR HANDLING UNITS TO BE LOCATED IN STORAGE ROOM, RM. 105 ON FIRST FLOOR LEVEL, AND UTILITY ROOM, RM. 206 ON THE SECOND FLOOR, WITH VERTICAL CONFIGURATIONS.
8. CONTRACTOR TO LOCATE HVAC RIGID SUPPLY & RETURN DUCT LINES & FLEXIBLE DUCTS TO BE ABOVE CEILING AND SHALL BE SUPPORTED PER SMACNA CONSTRUCTION STANDARDS FOR LOW PRESSURE DUCTWORK.
9. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING AND DUCTWORK SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MET FOR ACCESS TO MOTORS, FANS, FILTERS, ETC.
10. CONDENSATE LINES SHALL BE SCHEDULE 40 PVC COAT LINES TO PROTECT FROM UV. CONDENSATE LINE TO FLOOR DRAIN AS LOCATED IN MECHANICAL ROOM, RM. III.
11. CONTRACTOR TO FIELD VERIFY LOCATION OF HVAC CONDENSER UNITS AS SHOWN ON PLANS- PROVIDE CONCRETE PAD TO ACCOMMODATE CONDENSER UNITS.
12. LOCATE THERMOSTAT IN A CENTRAL LOCATION- CONTRACTOR TO CONFIRM LOCATION PER MFR.'S INSTALLATION GUIDELINES. SET NEW THERMOSTATS @ 48" AFF.
13. CEILING HEIGHTS THROUGHOUT TO BE 9'-6" AFF.- ALL CEILING\$ TO BE ACOUSTICAL TILE CEILING.
14. BATHROOM EXHAUST FANS TO BE VENTED TO THE EXTERIOR AS NOTED ON PLANS. PROVIDE EXHAUST LOUVER WITH RAIN PROOFING.
15. FOR OUTSIDE AIR INTAKE: PROVIDE 12"x 12" RUSKIN, EME6325D, WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER.

GRILLE/DIFFUSER SCHEDULE

MARK	CF M	NECK SIZE	TYPE	MF G	MODEL	NOTES
A	0-100	6"	CEILING MOUNTED	TITUS	TMS-AA (ALUMINUM)	1 - 5
	101-200	8"	SQUARE SUPPLY			
	201-400	10"	DIFFUSER			
	401-600	12"				
	601-800	14"				
B	0-125	6X6	EGGCRATE RETURN	TITUS	50F (ALUMINUM)	1, 2, 4, 5
	126-250	8X8	AIR GRILLE			
	251-400	10X10				
	401-600	12X12				
	601-900	16X16				
	901-1350	18X18				
	1351-2000	22X22				

- NOTES:
1. PROVIDE WITH OPPOSED BLADE BACKDRAFT DAMPER.
 2. PROVIDE 24X24 ALUMINUM FULLY LOUVERED FACE LAY-IN MODULE WHERE LOCATED IN LAY-IN CEILING.
 3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
 4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
 5. PROVIDE WITH WHITE FINISH.

EXHAUST FAN SCHEDULE

UNIT TYPE	IDENTIFIER	AREA SERVED	MANUFACTURER	MODEL	LOCATION	DRIVE	FAN TYPE	CF M	ESP IN WC	HP	ELECTRICAL LOAD	RPM	VOLTAGE	PHASES	NOTES
EF-1	1	RESTROOM	GREENHECK	SP-A90	CEILING	DIRECT	CEILING	75	0.20	-	18 W	900	120 V	1	1 - 3

- NOTES:
1. FANS ARE PROVIDED WITH FAN SPEED CONTROLLER, BACKDRAFT DAMPER, AND DISCONNECT SWITCH.
 2. FANS ARE INTERLOCKED WITH LIGHT SWITCH.
 3. FANS HAVE A SOUND RATING OF 5 SONES OR LESS.

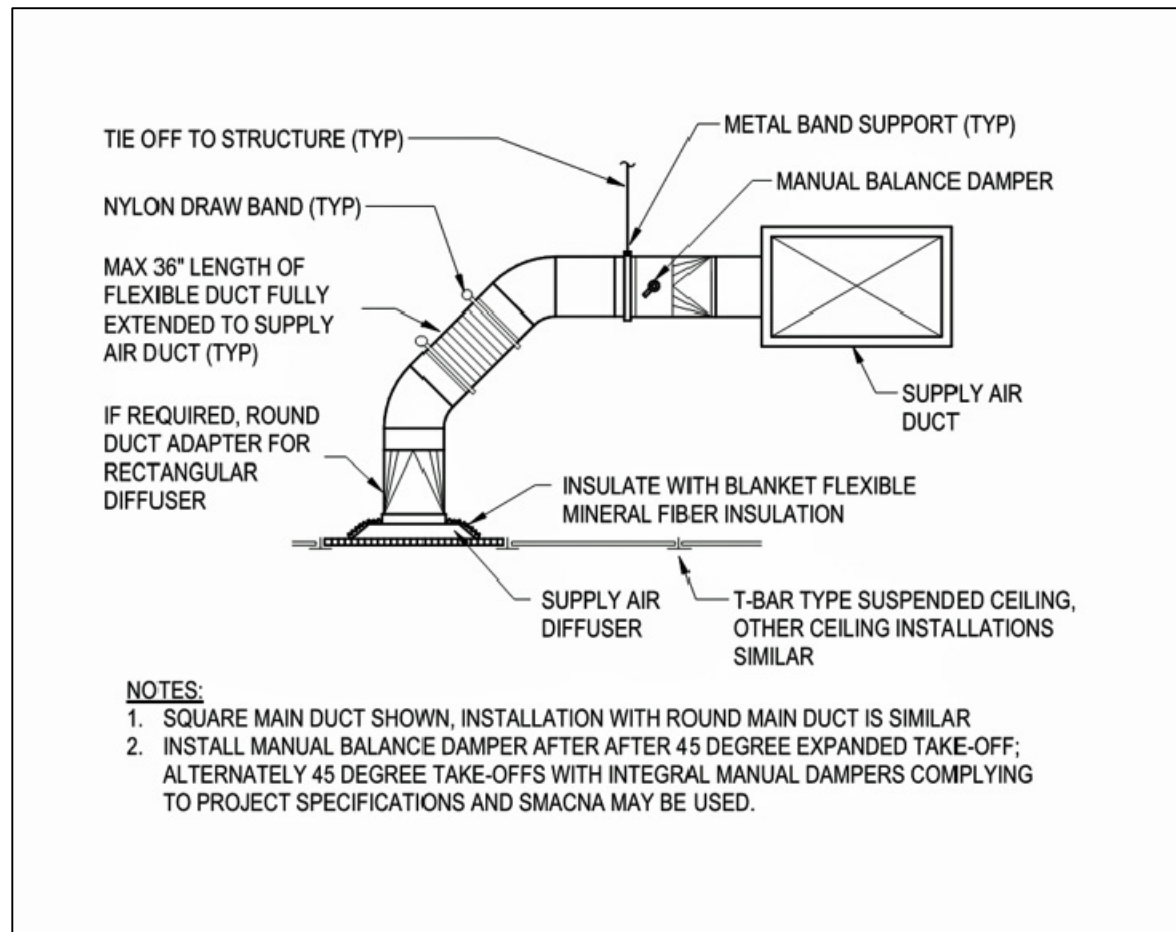
AIR HANDLING UNIT / CONDENSER SCHEDULE

UNIT TYPE	IDENTIFIER	MFR	MODEL	NOMINAL TONNAGE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	ENTERING DB (DEG F)	ENTERING WB (DEG F)	TOTAL CF M	OA CF M	ESP IN WC	INDOOR FAN HP	HEATING TYPE	ELECTRIC HEAT (KW)	MCA	MOCP	VOLTAGE	PHASE	WEIGHT	NOTES
AHU-1	1	TRANE	TEM6A0C60H51	5.0	48.00	36.00	80	67	1735	235	0.3	3/4	ELECTRIC	4.8 KW	34.0 A	35.0 A	208/230 V	1	167	1, 2
HP-1	1	TRANE	4TWR7060A1	5.0								1/4	ELECTRIC		28.0 A	45.0 A	208/230 V	1	260	
AHU-2	2	TRANE	TEM6A0C60H51	5.0	48.00	36.00	80	67	1735	270	0.3	3/4	ELECTRIC	4.8 KW	34.0 A	35.0 A	208/230 V	1	167	1, 2
HP-2	2	TRANE	4TWR7060A1	5.0								1/4	ELECTRIC		28.0 A	45.0 A	208/230 V	1	260	

VENTILATION REQUIREMENT SCHEDULE

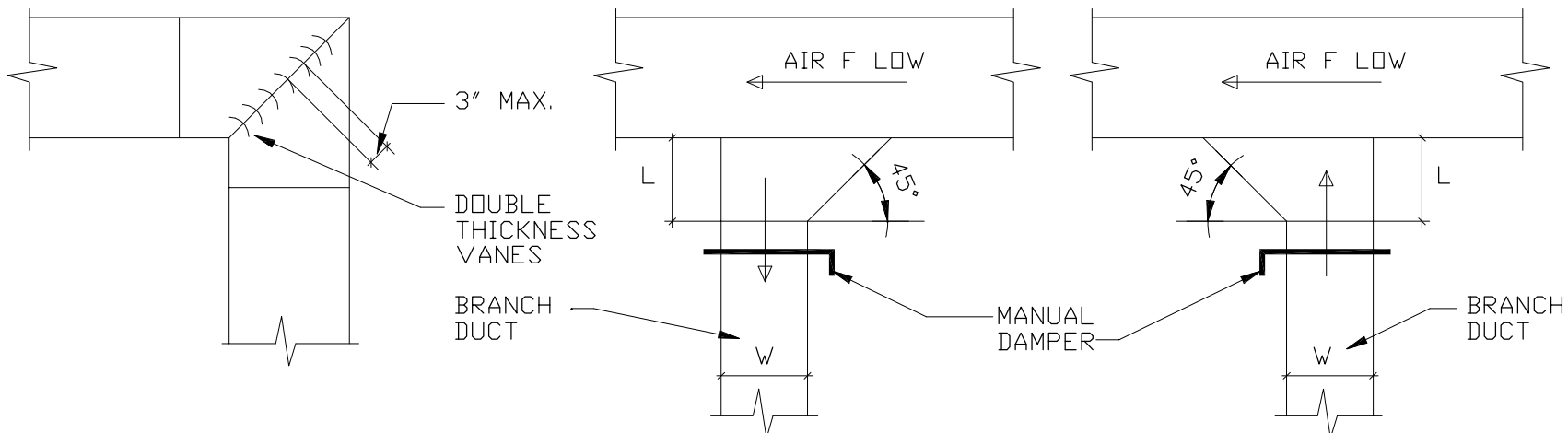
SERVED BY	ROOM	SPACE TYPE	NUMBER OF PEOPLE (Pz)	OUTDOOR AIRFLOW RATE REQ'D PER PERSON (Rp)	AREA (sf) (Az)	OUTDOOR AIRFLOW RATE REQ'D PER SF (Ra)	Rp x Pz	Ra x Az	BREATHING ZONE OUTDOOR AIRFLOW (Vbz)	EXHAUST AIRFLOW RATE (CFM/ sq.ft.)	AIR DISTRIBUTION CONFIGURATION	ZONE AIR EFFECT. (Ez)	ZONE OUTDOOR AIRFLOW (Voz=Vbz/Ez)	TOTAL OUTDOOR AIR INTAKE REQ'D (VoI)	TOTAL OUTDOOR AIR INTAKE PROVIDED
AHU-1	OFFICES	BUSINESS	5	5.0	740.0	.06	25.0	44.4	94.4		CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	230	230	235
	RESTROOM (2)	NONE	0	0	114.0	0	0	0	0	25/ 50					
	LOBBY AREA	ASSEMBLY	5	5.0	760.0	.06	25.0	45.6	70.6						
	BREAKROOM	BUSINESS	2	5.0	147.0	.06	10.0	8.82	18.82						
UNITS TOTAL										183.82					
AHU-2	OPEN OFFICE AREA	BUSINESS	8	5.0	1,200.0	.06	40.0	72.0	112.0		CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	285	265	270
	RESTROOMS (1)	NONE	0	0	57.0	0	0	0	0	25/ 50					
	BREAKROOM	BUSINESS	12	5.0	186.0	.06	60.0	11.2	71.2						
	OFFICE (1)	BUSINESS	2	5.0	310.0	.06	10.0	18.6	28.6						
UNITS TOTAL										211.80					

- NOTE:
- REQUIRED OUTSIDE AIR CFM VALUES BASED ON ANSI/ASHRAE STANDARD 62.1-2010.



DETAIL-DIFFUSER CONNECTION

M1 NOT TO SCALE



SQUARE ELBOW

SUPPLY TAP

RETURN TAP

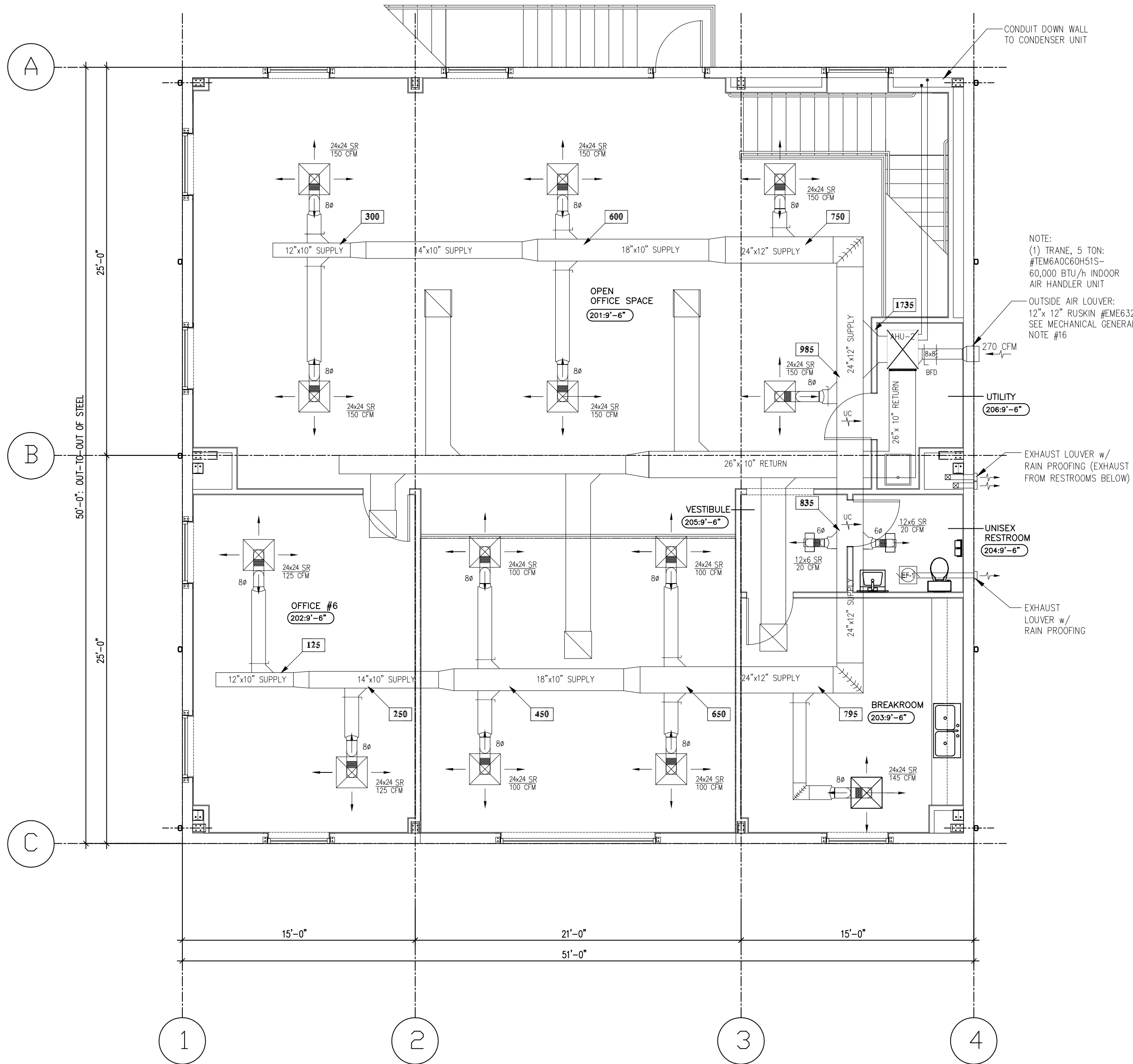
DETAIL-DUCTWORK

M1 NO SCALE

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PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS

REVISIONS			
#	DATE	REMARKS	

PROJECT NUMBER			
AW24021			
PHASE			
RELEASE FOR PERMIT			
SHEET TITLE			
NEW OFFICE FIRST FLOOR MECHANICAL PLAN, SCHEDULES, DETAILS & NOTES			
SHEET NUMBER			



OFFICE: SECOND FLOOR MECHANICAL PLAN

1 M2 3/16" = 1'-0"

LEGEND:

- NEW BATHROOM EXHAUST FAN
- NEW THERMOSTAT
- NEW 2' x 2' SUPPLY AIR DIFFUSER IN ACOUSTICAL CEILING
- NEW 2' x 2' RETURN AIR DIFFUSER IN ACOUSTICAL CEILING
- NEW 2'x2' METAL SUSPENDED GRID AT 9'-6" AFF.
- NEW HVAC DUCTWORK (SUSPENDED FROM STRUCTURE)
- UNDERCUT THE DOOR UNIT (3/4" UNDERCUT)

MECHANICAL SPECIFICATIONS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS IN FABRICATION, FOR THE CORRECT FITTING, INSTALLATION AND ERECTION OF THE VARIOUS MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS.
 - THE MECHANICAL CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, GOVERNMENT SALES TAXES AND INSPECTIONS; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS AND OR THE APPROPRIATE MUNICIPALITY AND/OR UTILITY COMPANY HAVING JURISDICTION, WHETHER INDICATED, SPECIFIED OR NOT. HE SHALL ALSO OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE GENERAL CONTRACTOR BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
 - IGNORANCE OF CODES, RULES, REGULATION, LAWS, ETC. SHALL NOT RENDER THE MECHANICAL CONTRACTOR IRRESPONSIBLE FOR COMPLIANCE.
 - CONTRACTOR SHALL BE VERSED IN ALL CODES, RULES AND REGULATIONS PERTINENT TO HIS PART OF THE WORK PRIOR TO SUBMISSION OF A PROPOSAL.
 - THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS OR DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, SHOWN ON THE DRAWINGS AND/OR SPECIFIED.
 - ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEMS SHALL BEAR THE APPROVED LABEL OF, OR SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC.
 - ALL HEATING, VENTILATION AND AIR CONDITIONING WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STATE OR LOCAL BUILDING CODE AND AMENDMENTS THERETO, THE LATEST STANDARDS RECOGNIZED BY THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS AND THE NATIONAL FIRE PROTECTION ASSOCIATION.
 - WHERE MINIMUM CODE REQUIREMENTS ARE EXCEEDED IN THE DESIGN OF THE HVAC SYSTEMS, THE DESIGN SHALL GOVERN.
 - THE MECHANICAL CONTRACTOR SHALL ENSURE THAT HIS WORK IS ACCOMPLISHED IN ACCORDANCE WITH OSHA STANDARDS AND THAT HE CONDUCTS HIS WORK AND THE WORK OF HIS PERSONNEL ON THIS PROJECT IN ACCORDANCE WITH SAME.
 - ALL WORK RELATING TO THE HANDICAPPED SHALL BE IN ACCORDANCE WITH REGULATIONS CURRENTLY ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- DRAWINGS AND SPECIFICATIONS
- CONTRACT DRAWINGS FOR WORK UNDER THIS SECTION ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, PIPING AND THE APPROXIMATE SIZE AND LOCATION OF EQUIPMENT AND OUTLETS. THE CONTRACTOR SHALL FOLLOW THESE DRAWINGS IN LAYING OUT HIS WORK AND SHALL VERIFY SPACES IN WHICH HIS WORK WILL BE INSTALLED, INDICATING TO THE ARCHITECT WHERE ANY CONFLICTS OR OVERLAPPING OF SYSTEMS OCCUR.
 - WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN INDICATED LOCATIONS AND ARRANGEMENT, PROPOSED DEPARTURES SHALL BE SUBMITTED WITH DETAILED DRAWINGS TO THE ARCHITECT FOR APPROVAL BEFORE ANY OF THE PROPOSED WORK IS COMMENCED.
 - THE DRAWINGS AND THE SPECIFICATIONS ARE INTENDED TO INDICATE COMPLETE AND WORKING SYSTEMS, UNLESS SPECIFICALLY INDICATED TO THE CONTRARY. THE WORK INCLUDES THE FURNISHING, INSTALLING AND CONNECTING OF A COMPLETE WORKING INSTALLATION IN EACH CASE TO THE FULL EXTENT SET FORTH IN THE DRAWINGS AND HEREIN SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONING SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.
 - THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED AS COOPERATIVE. WORK AND MATERIAL INCLUDED IN EITHER, THOUGH NOT MENTIONED IN BOTH, SHALL BE A PART OF THE WORK TO BE ACCOMPLISHED AND SHALL BE CARRIED OUT COMPLETELY IN AS THOROUGH A MANNER AS IF COVERED BY BOTH.
- EQUIPMENT DESIGN AND INSTALLATION
- THE DESIGN, MANUFACTURE, TESTING AND INSTALLATION OF ALL APPARATUS AND MATERIALS FURNISHED UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL CONFORM TO THE APPLICABLE STANDARD RULES OF THE FOLLOWING, WHERE MATERIALS ARE NOT SPECIFICALLY REFERRED TO, BUT ARE REQUIRED, THEY SHALL MEET THE REQUIREMENTS OF THE APPLICABLE CODE.
 - ARI -AIR CONDITIONING & REFRIGERATION INSTITUTE
 - ASHRAE -AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
 - ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - ASTM -AMERICAN SOCIETY OF TESTING MATERIALS
 - EPA -ENVIRONMENTAL PROTECTION AGENCY
 - FBC -FLORIDA BUILDING CODE, BUILDING, FIRE, FUEL GAS, PLUMBING, & MECHANICAL
 - NEC -NATIONAL ELECTRICAL CODE
 - NEMA -NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
 - NFPA -NATIONAL FIRE PROTECTION ASSOCIATION
 - OSHA -OCCUPATIONAL SAFETY AND HEALTH ADM.
 - SMACNA-SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
 - UL -UNDERWRITERS LABORATORIES, INC.
 - UNLESS OTHERWISE SPECIFIED AND/ OR APPROVED, EQUIPMENT AND MATERIALS OF THE SAME TYPE AND USED FOR THE SAME PURPOSE, SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
 - THE COMPONENTS AND COMPLETED ASSEMBLIES OF ALL EQUIPMENT FURNISHED SHALL BE U.L. LISTED, IN AN EFFORT TO ENSURE QUALITY PRODUCTS ON THE PROJECT.

TESTS

- ALL TESTS REQUIRED TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM AND ALL COMPONENTS THEREOF SHALL BE MADE IN THE PRESENCE OF AND TO THE SATISFACTION OF THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE AND OTHER REPRESENTATIVES OF STATE AND LOCAL GOVERNMENT. ALL INSTRUMENTS, LABOR AND EXPERT SERVICE NECESSARY TO CONDUCT THESE TESTS SHALL BE SUPPLIED BY THE CONTRACTOR, POWER AND FUEL WILL BE FURNISHED BY THE OWNER.
 - THE FINAL INSPECTION AND TESTS ARE TO BE MADE ONLY AFTER THE OWNER IS SATISFIED THAT THE WORK DESCRIBED IN THESE SPECIFICATIONS HAS BEEN COMPLETELY INSTALLED IN ACCORDANCE WITH THE TRUE SPIRIT AND INTENT OF THESE SPECIFICATIONS AND THAT COMPLETE PRELIMINARY TESTS WERE MADE WHICH INDICATE ADEQUACY, QUALITY, COMPLETION AND SATISFACTORY OPERATION. THE ACCEPTANCE OF THE WORK HEREIN SPECIFIED, SHALL NOT IN ANY WAY PREJUDICE THE OWNER'S RIGHT TO DEMAND REPLACEMENT OF DEFECTIVE MATERIAL AND/OR WORKMANSHIP.
- GUARANTEE AND SERVICE:
- ALL EQUIPMENT SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, AS EVIDENCED BY DATE OF CERTIFICATE FOR FINAL PAYMENT.
 - IN ADDITION TO THE GUARANTEE, THE CONTRACTOR SHALL PROVIDE ALL REPAIR AND ADJUSTMENT SERVICE NECESSARY FOR THE PROPER OPERATION OF THE ENTIRE SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE SYSTEM IS PUT INTO OPERATION (CONCURRENT WITH THE GUARANTEE). UPON RECEIPT OF NOTICE FROM THE OWNER'S REPRESENTATIVE OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART SHALL BE REPAIRED PROMPTLY WITH A NEW PART WITHOUT COST TO THE OWNER. UPON FAILURE TO TAKE ACTION WITHIN 48 HOURS AFTER BEING NOTIFIED, THE WORK WILL BE ACCOMPLISHED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

CONTRACTOR FURNISHED DRAWINGS, DESCRIPTIVE DATA AND MANUALS:

- IN ACCORDANCE WITH THE GENERAL CONDITIONS, SHOP DRAWINGS SHALL BE SUBMITTED ON ALL LOTS OF PREFABRICATED MATERIALS.
- DEFINITIONS
- ALL DOCUMENTS PERTINENT TO THE QUALITY AND QUANTITY OF WORK TO BE PERFORMED ON THE PROJECT, INCLUDES BUT NOT LIMITED TO: PLANS, SPECIFICATIONS, INSTRUCTIONS TO BIDDERS, GENERAL AND SPECIAL CONDITIONS, ADDENDA, ALTERNATES, LIST OF MATERIALS, LIST OF SUB-CONTRACTORS, UNIT PRICES, SHOP DRAWINGS, FIELD ORDERS, CHANGE ORDERS, COST BREAKDOWN, PERIODICAL PAYMENT REQUESTS, ETC.
 - IT IS THE INTENTION OF THESE SPECIFICATIONS AND ALL ASSOCIATED DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
 - DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF SYSTEMS, EQUIPMENT, MATERIALS, ETC., SHALL BE INCLUDED IN THE WORK, THE SAME AS IF HEREIN SPECIFIED OR INDICATED.

HANGERS AND SUPPORTS FOR H.V.A.C. PIPING AND EQUIPMENT

- STEEL HANGER RODS MAY BE THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED.
- INSERTS SHALL BE MALLEABLE IRON CASE OF GALVANIZED STEEL SHELL AND EXPANDER PLUG FOR THREADED CONNECTION WITH LATERAL ADJUST. TOP SLOT FOR REINFORCING RODS, LUGS FOR ATTACHING TO FORMS; SIZE INSERTS TO SUIT THREADED HANGER RODS.
- BEAM CLAMPS SHALL HAVE MALLEABLE IRON JAWS, STEEL BOLT OR TIE ROD AND NUT.
- PRIME COAT EXPOSED STEEL HANGERS AND SUPPORTS, HANGERS AND SUPPORTS LOCATED IN CRAWL SPACES, PIPE SHAFTS, AND SUSPENDED CEILING SPACES ARE NOT CONSIDERED EXPOSED.
- PROVIDE INSERTS FOR SUSPENDING HANGERS FROM REINFORCED CONCRETE SLABS AND SIDES OF REINFORCED CONCRETE BEAMS.
- PROVIDE HOOKED ROD TO CONCRETE REINFORCEMENT SECTION FOR INSERTS CARRYING PIPE OVER 4 INCHES.
- WHERE CONCRETE SLABS FORM FINISHED CEILING, PROVIDE INSERTS TO BE FLUSH WITH SLAB SURFACE.
- WHERE INSERTS ARE OMITTED, DRILL THROUGH CONCRETE SLAB FROM BELOW AND PROVIDE THRU-BOLT WITH RECESSED SQUARE STEEL PLATE AND NUT RECESSED INTO AND GROUTED FLUSH WITH SLAB.

DUCTWORK

- DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. FOR LINED DUCTS, MAINTAIN SIZES INSIDE LINING.
- TO BE NON-COMBUSTIBLE OR CONFORMING TO REQUIREMENTS FOR CLASS 1 AIR DUCT MATERIALS, OR UL 181.
- ALL DUCT MATERIAL AND COVERING SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- STEEL DUCTS SHALL BE ASTM A625 OR ASTM A527 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, HAVING ZINC COATING OF 1.25 OZ. PER SQ.FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
- FLEXIBLE DUCTS SHALL BE INTERLOCKING SPIRAL OF GALVANIZED STEEL, OR FABRIC SUPPORTED ON HELICALLY WOUND SPRING STEEL WIRE. FLEXIBLE DUCTS SHALL CONFORM TO UL 181. WORKING PRESSURE UP TO 4" W.G. MAXIMUM VELOCITY, MAXIMUM LENGTH PER RUN SHALL BE 20 FEET.
- INSULATED FLEXIBLE DUCT SHALL BE FLEXIBLE DUCT WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS ALUMINUM PIGMENTED PLASTIC VAPOR BARRIER JACKET.
- FASTENERS MAY BE RIVETS, BOLTS OR SHEET METAL SCREWS.
- SEALANT MUST BE NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS, LIQUID USED ALONG OR WITH TAPE, OR HEAVY MASTIC.
- LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
- DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

LOW PRESSURE DUCTWORK

- FABRICATE AND SUPPORT IN COMPLETE ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, LATEST EDITIONS, EXCEPT AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.
- SIZE ROUND DUCTS INSTALLED IN PLACE OF RECTANGULAR DUCTS IN ACCORDANCE WITH ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS. NO VARIATION OF DUCT CONFIGURATION OR SIZES PERMITTED EXCEPT BY WRITTEN PERMISSION.
- CONSTRUCT T'S, BENDS AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE TURNING VANES.
- INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 30 DEGREES; CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.
- USE CRIMP JOINTS WITH OR WITHOUT BEAD FOR JOINING ROUND DUCT SIZES 8 INCHES AND SMALLER WITH CRIMP IN DIRECTION OF AIR FLOW.

INSULATION

- INTERNAL SHALL BE GLASS FIBER; ANSI/ASTM C553, 1.5 LB./CU. FT. MINIMUM DENSITY. INTERIOR SURFACE EXPOSED TO AIR STREAM SHALL HAVE THERMOSETTING ACRYLIC POLYMER OR LINER WITH EPA REGISTERED BIOCIDES RATED FOR MAXIMUM 400 FPM AIR VELOCITY. MINIMUM INSTALLED R-VALUE OF 6.0, UNLESS DUCT IS INSTALLED IN MECHANICALLY COOLED SPACE OR BETWEEN FLOORS, IN WHICH CASE THE INSTALLED R-VALUE MAY BE 4.2. DETERMINE R-VALUES AT 75°F.
- EXTERNAL SHALL BE FLEXIBLE OR RIGID GLASS FIBER; ANSI/ASTM C612 COMMERCIAL GRADE. MINIMUM INSTALLED R-VALUE OF 6.0, UNLESS DUCT IS INSTALLED IN MECHANICALLY COOLED SPACE OR BETWEEN FLOORS, IN WHICH CASE THE INSTALLED R-VALUE MAY BE 4.2. DETERMINE R-VALUES AT 75°F. PROVIDE WITH FOIL SCRIM FACING.
- INSULATION MATERIAL AND JACKETS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- ADHESIVES MUST BE WATERPROOF FIRE-RETARDANT TYPE.

- LAGGING ADHESIVE MUST BE FIRE RESISTIVE TO ASTM E84, NFPA 255, UL723.
- IMPALE ANCHORS SHALL BE GALVANIZED STEEL, 12 GAGE, SPOT WELDED OR SELF-ADHESIVE PAD. NO ANCHORS SHALL PENETRATE DUCT WALLS.
- JOINT TAPE SHALL BE GLASS FIBER CLOTH, OPEN MESH.
- TIE WIRE SHALL BE ANNEALED STEEL, 16 GAGE.
- INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- FOR INTERNAL APPLICATION, ADHERE INSULATION WITH ADHESIVE FOR 100 PERCENT COVERAGE. SECURE INSULATION WITH MECHANICAL FASTENERS ON 15 INCH CENTERS MAXIMUM ON TOP AND SIDE OF DUCTWORK WITH DIMENSION EXCEEDING 20 INCHES. SEAL AND SMOOTH JOINTS. DO NOT USE NAIL-TYPE FASTENERS. SEAL VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS WITH VAPOR BARRIER ADHESIVE.
- DUCTWORK DIMENSIONS INDICATED ARE NET INSIDE DIMENSIONS REQUIRED FOR AIR FLOW.
- SUPPLY AND RETURN DUCTS SHALL BE INSULATED.
- OUTSIDE AIR DUCTS SHALL BE FLEXIBLE OR GALV. STEEL, EXTERNALLY INSULATED TO R-VALUE OF 4.5 (6.0 NOT REQUIRED).
- INTERIOR EXHAUST DUCT FROM TOILET ROOMS AND DRYER SHALL NOT REQUIRE INSULATION.

HANGERS

- ALL DUCT HANGERS IN DIRECT CONTACT WITH GALVANIZED DUCT SHALL BE GALVANIZED STEEL.
- DUCT HANGERS MAY BE DIRECTLY ATTACHED TO DUCTS. DUCTS SHALL BE HUNG BY ANGLES OR STRAPS AS DETAILED ON DRAWINGS. RODS, STRAPS OR ANGLES MAY BE USED IN TRAPEZE HANGERS.
- WHERE TRAPEZE HANGERS ARE USED, THE BOTTOM OF THE DUCT SHALL BE SUPPORTED TO ANGLE SIZED AS 1" X 1" X 1/8" FOR DUCTS UP TO 34" FOR ROUND DUCTS, THE ANGLE SHALL CONFORM TO THE BOTTOM 120 DEGREES OF THE DUCT).
- ALL HANGERS SHALL BE SUFFICIENTLY CROSS-BRACED TO ELIMINATE, IN THE OPINION OF THE ARCHITECT, EXCESSIVE SWAY. WHEREVER DUCTWORK CONTAINS FILTER SECTIONS, COILS, FANS OR OTHER HEAVY EQUIPMENT (EXCLUDING REGISTERS, GRILLES, DIFFUSERS, SPLITTER DAMPERS, ETC.) SUCH EQUIPMENT SHALL BE HUNG INDEPENDENTLY OF THE DUCTWORK, WITH RODS OR ANGLES OF SIZES ADEQUATE TO SUPPORT THE LOAD.
- DUCT HANGERS DIRECTLY IN CONTACT WITH OR DIRECTLY ATTACHED TO STAINLESS STEEL DUCTS SHALL BE STAINLESS STEEL.
- IN THE EVENT DUCTWORK INTERFERES WITH SUSPENDED CEILING SUPPORT HANGERS, PROVIDE CROSS MEMBERS FROM HANGERS AFFECTED. THESE CROSS MEMBERS SHALL BE OF REINFORCED STEEL, OR FURNISH CHANNELS AND SHALL RUN UNDER DUCTWORK IN QUESTION FROM WHICH ADDITIONAL CEILING HANGERS SHALL BE SUPPORTED.

PERMITTED DUCT MATERIAL USAGE

- HVAC SUPPLY & RETURN MAY BE INSULATED GALV. STEEL, OR INSULATED FLEXIBLE
- OUTSIDE AIR MUST BE EXTERNALLY INSULATED GALVANIZED STEEL.
- TOILET EXHAUST SHALL BE GALVANIZED STEEL, NO INSULATION.

POWER VENTILATORS

- MANUFACTURERS SHALL BE GREENHECK, PENN, BROAN, NUTONE OR APPROVED EQUAL.
- CEILING EXHAUST FANS SHALL BE V-BELT OR DIRECT DRIVE, WITH GALVANIZED STEEL HOUSING LINED WITH 1/2 INCH ACOUSTIC INSULATION, RESILIENT MOUNTED MOTOR, GRAVITY BACKDRAFT DAMPER IN DISCHARGE.
- DISCONNECT SWITCH SHALL BE FACTORY WIRED, NON-FUSIBLE, IN HOUSING FOR THERMAL OVERLOAD PROTECTED MOTOR.
- GRILLE SHALL BE MOLDED WHITE PLASTIC OR ALUMINUM WITH BAKED WHITE ENAMEL FINISH.
- SPEED CONTROLLER TO BE SOLID STATE.
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

DIFFUSERS, REGISTERS AND GRILLES

- FURNISH AND INSTALL WHERE SHOWN ON DRAWINGS ALL REGISTERS, GRILLES, DIFFUSERS AND LOUVERS IN ACCORDANCE WITH THE TABULATION IN THE SCHEDULE ON DRAWINGS.
- PROVIDE ACCESSORIES AND MODIFICATIONS AS INDICATED IN SCHEDULE NOTES.
- MANUFACTURER LISTED IN SCHEDULE IS FOR DESIGN SELECTION ONLY. REGISTERS, GRILLES, AND DIFFUSERS AS MANUFACTURED BY PRICE, KRUEGER, TITUS, METALAIR OR APPROVED EQUAL WILL BE ACCEPTED.

DUCT ACCESSORIES

- INSTALL ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PROVIDE BALANCING DAMPERS AT POINTS ON LOW PRESSURE SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING.
- PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS OR EXHAUST DUCTS NEAREST TO OUTSIDE AND WHERE INDICATED.
- PROVIDE FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT.

VOLUME CONTROL DAMPERS

- FABRICATE IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, AND AS INDICATED. AIR BALANCE, BARBER-COLMAN, CARNES, NATIONAL CONTROLLED AIR, RUSKIN, CESCO OR APPROVED EQUAL.
- FABRICATE SINGLE BLADE DAMPERS FOR DUCT SIZES TO 12 INCH.
- FABRICATE MULTI-BLADE DAMPER OF OPPOSED BLADE PATTERN WITH MAXIMUM BLADE SIZES 12 X 72 INCH. ASSEMBLE CENTER AND EDGE CRIMPED BLADES IN PRIME COATED OR GALVANIZED CHANNEL FRAME WITH SUITABLE HARDWARE.
- EXCEPT IN ROUND DUCTWORK 12 INCHES AND SMALLER, PROVIDE END BEARINGS, ON MULTIPLE BLADE DAMPERS, PROVIDE OIL-IMPREGNATED NYLON OR SINTERED BRONZE BEARINGS.
- PROVIDE LOCKING, INDICATING QUADRANT REGULATORS ON SINGLE AND MULTI-BLADE DAMPERS, WHERE ROD LENGTHS EXCEED 30 INCHES PROVIDE REGULATOR AT BOTH ENDS.

BACKDRAFT DAMPERS

- DAMPERS SHALL BE AIR BALANCE, VENT COCK, ANEMOSTAT, RUSKIN, CESCO OR APPROVED EQUAL.
- GRAVITY BACKDRAFT DAMPERS, SIZE 18X18 INCHES OR SMALLER, FURNISHED WITH AIR MOVING EQUIPMENT, MAY BE AIR MOVING EQUIPMENT MANUFACTURER'S STANDARD CONSTRUCTION.
- FABRICATE MULTI-BLADE, PARALLEL ACTION GRAVITY BALANCED BACKDRAFT DAMPERS OF 16 GAGE GALVANIZED STEEL, WITH CENTER PIVOTED BLADES OF MAXIMUM 6 INCH WIDTH, WITH FELT OR FLEXIBLE VINYL SEALED EDGES, LINKED TOGETHER IN RATTLE-FREE MANNER WITH 90 DEGREE STOP, STEEL BALL BEARINGS, AND PLATED STEEL PIVOT PIN; ADJUSTMENT DEVICE TO PERMIT SETTING FOR VARYING DIFFERENTIAL STATIC PRESSURE.

AIR TURNING DEVICES

- AIR TURNING VANES SHALL BE BARBER/COLMAN, TUTTLE AND BAILEY, ANEMOSTAT, METALAIR OR APPROVED EQUAL.
- MULTI-BLADE DEVICE WITH BLADES ADJUSTED IN SHORT DIMENSION, STEEL OR ALUMINUM CONSTRUCTION, WITH INDIVIDUALLY ADJUSTABLE BLADES, MOUNTING STRAPS, PROVIDE IN ALL SQUARE TURNS.

FLEXIBLE DUCT CONNECTIONS

- SHALL BE VENT FABRIC 6" VENTGLAS, ANEMOSTAT, BARBER/COLMAN OR APPROVED EQUAL.
- FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS 1ST EDITION, 1985.
- UL LISTED FIRE-RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC TO NFPA 90A, MINIMUM DENSITY 20 OZ PER SQUARE YARD, APPROXIMATELY 6 INCHES WIDE, CRIMPED INTO METAL EDGING STRIP.

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Troy A. Stencel
Professional Engineer
by the State of Georgia
No. 14876
Date: 2024/04/01

TROY ANTHONY STENCEL
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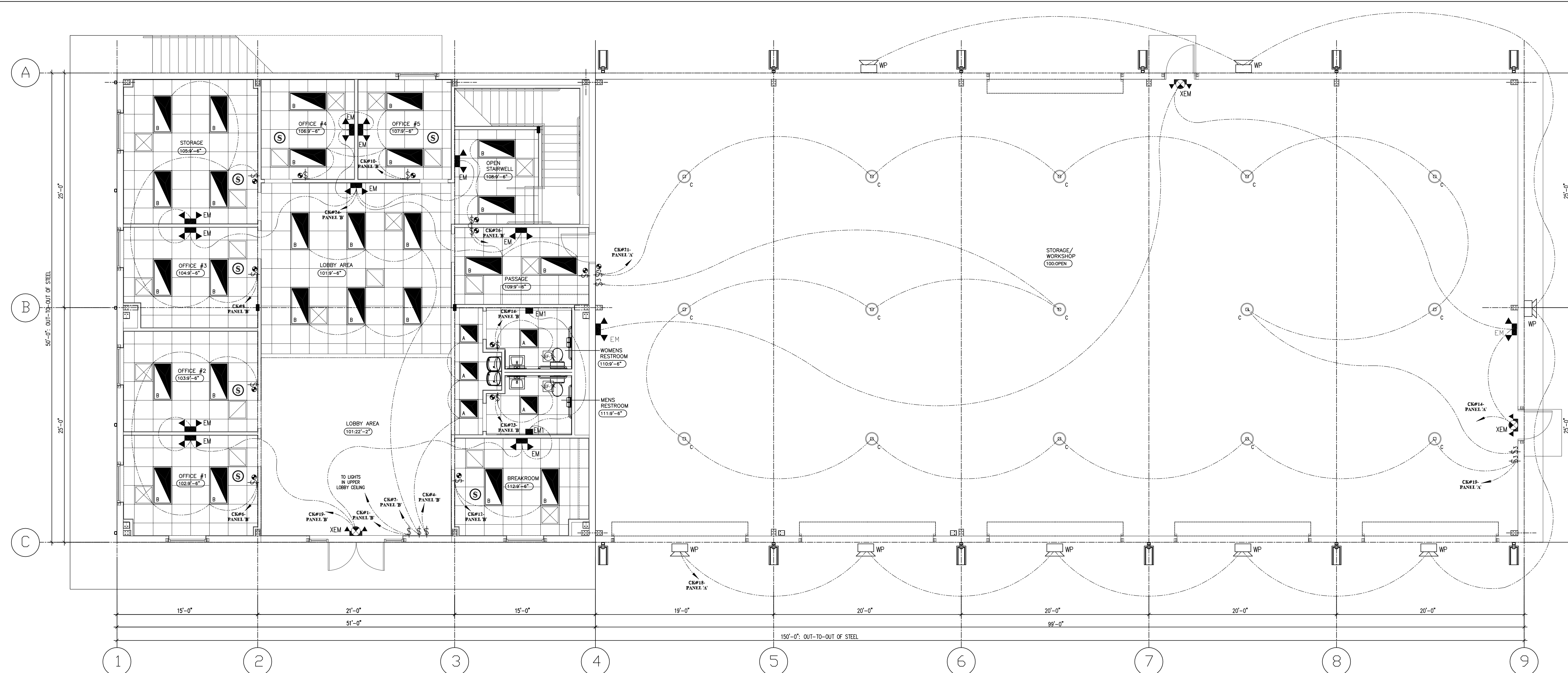
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SUBMITTAL			
PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS
REVISIONS			
#	DATE	REMARKS	
PROJECT NUMBER AW24021			
PHASE RELEASE FOR PERMIT			
SHEET TITLE NEW OFFICE SECOND FLOOR MECHANICAL PLAN & SPECIFICATIONS			
SHEET NUMBER M2			

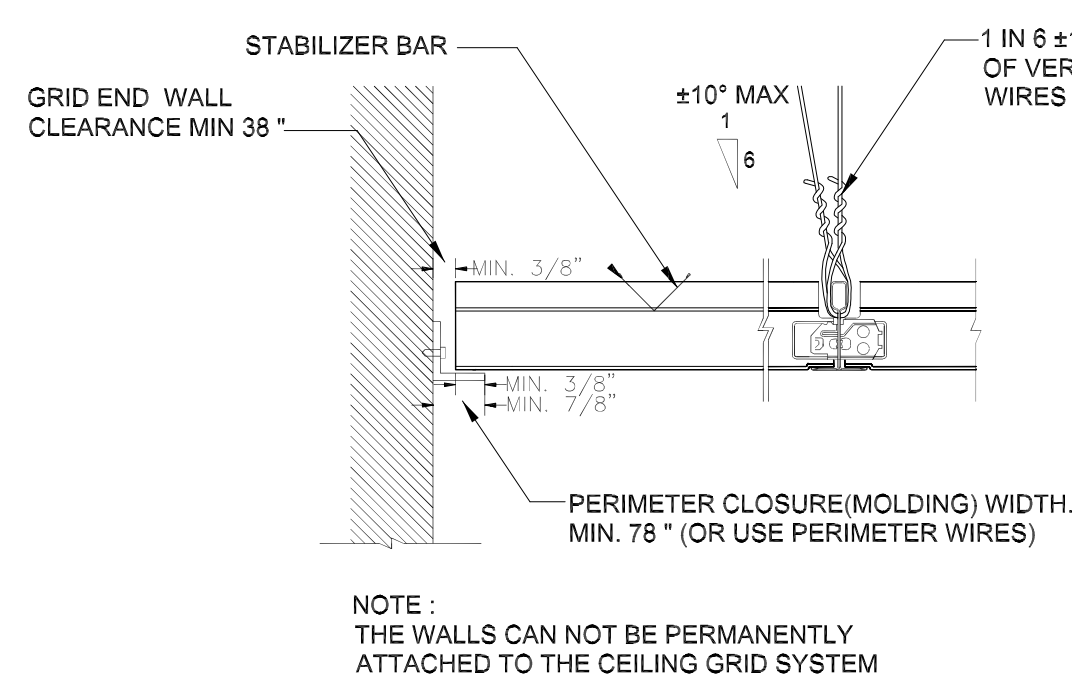


1
E1
OVERALL FIRST FLOOR LIGHTING PLAN
3/16" = 1'-0"

CEILING NOTES:

- A. MISCELLANEOUS:
- ACOUSTICAL TILE CEILING TO BE: AR18TRONG 24"x24"x8" - WHITE (TYPE #613) THROUGHOUT FIRST FLOOR OFFICE AREA.
 - NEW SUSPENDED METAL GRID THROUGHOUT SECOND FLOOR AT 9'-6" AFF. IN FINISHED AREA.
 - CONTRACTOR TO FIELD COORDINATE LOCATION OF ALL ELECTRICAL FIXTURES, MECHANICAL DIFFUSERS & RETURN GRILLE WITH TRADES. LOCATE NIGHT LIGHT AS SHOWN.
 - CONTRACTOR TO INSTALL NEW WALL MOUNTED EXIT LIGHT/SIGN AND INTERIOR & EXTERIOR EMERGENCY WALL PACKS AS INDICATED.
 - CONTRACTOR TO PROVIDE BOTH NEW 2'x2' LITHONIA, LED LAY-IN LIGHT FIXTURES THROUGHOUT FINISHED OFFICE SPACE & NEW 2'x4' LITHONIA, LED HIGH BAY LIGHT FIXTURES THROUGHOUT UNFINISHED STORAGE/WAREHOUSE SPACE. CONTRACTOR TO VERIFY QUANTITY AND CONFIRM LOCATIONS. ADDITIONALLY, CONTRACTOR TO CONFIRM BOTH THE "ALLOWABLE" WATTS AND "INSTALLED" WATTS OF THE NEW SPECIFIED LIGHT FIXTURES PER 2023 FBC - ENERGY CONSERVATION CODE, 8th EDITION, SECTION C405.
a. FIVE (5) NEW 2'x2' LED TROFFERS, 18 WATTS EACH
THEREFORE TOTAL WATTAGE: 90.0 WATTS- UNIT PANEL 'B'
b. TWENTY-NINE (29) NEW 2'x4' LED TROFFERS, 36 WATTS EACH
THEREFORE TOTAL WATTAGE: 936.0 WATTS- UNIT PANEL 'B'
c. FIFTEEN (15) NEW 2" DIA. LED HIGH BAY, 150 WATTS EACH
THEREFORE TOTAL WATTAGE: 2,250.0 WATTS- UNIT PANEL 'A'.
 - CONTRACTOR TO PROVIDE NEW EXHAUST FAN IN BATHROOM.
 - ALL EXTERIOR LIGHTING ON DUSK-TO-DAWN PHOTOCCELL.

LIGHTING FIXTURE SCHEDULE					
FIXTURE MARK	MANUFACTURER	MODEL	VOLTAGE	LAMP	DESCRIPTION
A	LITHONIA	2VTL2 (LP940)	120 V	(2)36 W LED	2X2 LAY-IN TROFFER 2 LAMP-STEEL FRAME
B	LITHONIA	2x4 IBE 18LM M-VOLT 40K	120 V	136 W LED	2X4 LAY-IN TROFFER 2 LAMP-STEEL FRAME
XEM	SURE-LITE	APC-7-R-SQ	120 V	LED INCLUDED	COMBINATION EM/EXIT LIGHT FIXTURE w/ BATTERY BACK-UP
WP	LUMARK	WPMLED25	120 V	80 W LED	REAR & SIDE WALL PACKS: 11'-0" MOUNTING HGT. FRONT WALL PACKS: 14'-0" MOUNTING HGT.
EM	SURE-LITE	AP-2SQ-LED	120 V	LED- 8567L/3500K	TWO HEAD EMERGENCY LIGHT WALL MOUNTED
EM1	SURE-LITE	CU2-LED	120 V	LED INCLUDED	EMERGENCY LIGHT WALL MOUNTED
C	COLUMBIA LIGHTING	CRB-50MM-EDU	120V-277 V	150 W LED	12" DIA. DIE-CAST ALUMINUM: CHAIN CABLE SUPPORT FROM STRUCTURE



2
E1
SUSPENDED CEILING DETAIL
NOT TO SCALE

LEGEND:

- XEM NEW COMBINATION LIGHTED EXIT SIGN AND EMERGENCY LIGHT WITH BATTERY BACK-UP
- A NEW 2'x2' LED LAY-IN TROFFER IN NEW SUSPENDED METAL GRID
- B NEW 2'x4' LED LAY-IN TROFFER IN NEW SUSPENDED METAL GRID
- EM NEW BATHROOM EXHAUST FAN
- EM1 NEW 2'x2' METAL SUSPENDED GRID AT 9'-6" AFF.
- WP NEW EMERGENCY WALL PACK-2 LAMPS; RECHARGEABLE TYPE
- EM1 NEW 1 HEAD EMERGENCY LIGHT WITH BATTERY BACK-UP
- WP NEW LED EXTERIOR WALL PACK: WALL MOUNTED
- S NEW CEILING MOUNTED SMOKE DETECTOR
- SW NEW WALL SWITCH OCCUPANCY SENSOR

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by Troy Anthony Stencel
Date: 2024-06-01
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SUBMITTAL

PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS

REVISIONS

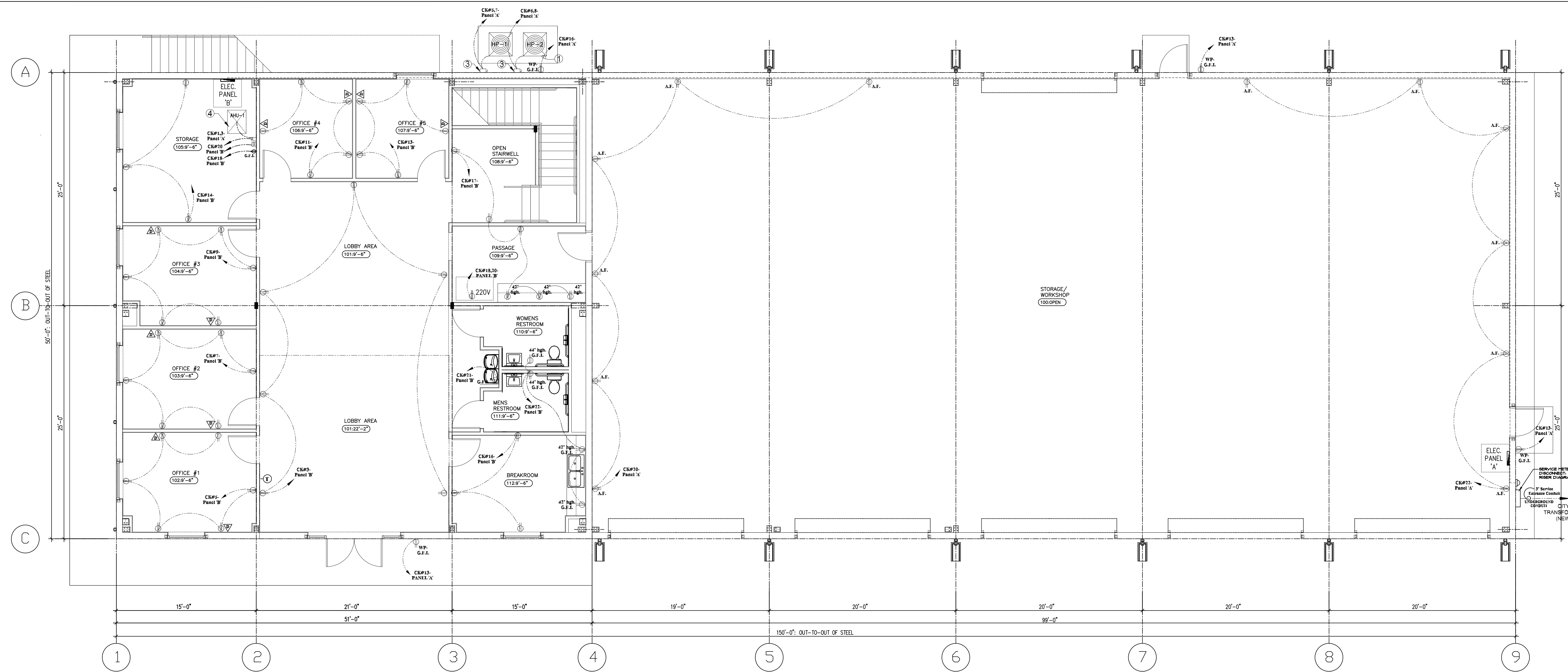
#	DATE	REMARKS

PROJECT NUMBER
AW24021

PHASE
RELEASE FOR PERMIT

SHEET TITLE
NEW OVERALL FIRST FLOOR LIGHTING PLAN, DETAILS & NOTES

SHEET NUMBER
E1



1 OVERALL FIRST FLOOR POWER PLAN
3/16" = 1'-0"

ELECTRICAL NOTES:

- A MISCELLANEOUS:
- ALL ELECTRICAL WORK TO BE BY NATIONAL ELECTRICAL CODE (NFPA 70- 2020 EDITION). PROVIDE RECEPTACLES AS NOTED ON POWER PLAN.
 - EXIT, EMERGENCY & NIGHT LIGHTS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHES. PROVIDE LOOK TAB ON LIGHT CIRCUITS WHICH FEED POWER TO EXIT, EMERGENCY & NIGHT LIGHT FIXTURE.
 - PRIOR TO INSTALLATION OF SWITCHES & WIRING, CONTRACTOR SHALL COORDINATE SWITCH LEG WITH ELECTRICIAN. ALL SWITCHES SHALL BE RATED 20 AMPERE, 120V FOR CONTINUOUS OPERATION.
 - NEW TYPICAL ELECTRICAL PANEL: PANEL 'A': 208Y/120VOLT, 3 PHASE, 600 AMP/6 WITH 42 SPACES- 4 WIRE. SEE NEW ELECTRICAL LOAD CALCULATIONS AND PANEL 'B' LAYOUT SHEET E3.
 - WIRE GAUGE, INSULATION TYPE AND TEMPERATURE RATING AS WELL AS TYPE, SIZE AND CONSTRUCTION OF CONDUIT, MUST MEET OR EXCEED APPLICABLE SPECIFICATIONS OF LOCAL BUILDING CODES AND OF THE NATIONAL ELECTRICAL CODE (NFPA 70- 2020 EDITION).
 - NEW BUILDING SHALL INCLUDE MANUAL LIGHTING CONTROLS THAT MEET THE REQUIREMENTS OF SECTION C405.2(1), 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION.
 - INTERIOR LIGHTING CONTROLS- EACH AREA ENCLOSED BY FLOOR-TO-CEILING PARTITIONS SHALL HAVE AT LEAST ONE MANUAL CONTROL FOR THE LIGHTING SERVING THAT AREA. THE REQUIRED CONTROLS SHALL BE LOCATED WITHIN THE AREA SERVED BY THE CONTROLS.
 - WALL SWITCH OCCUPANCY SENSORS SHALL BE LOCATED IN OFFICE AND BATHROOM- SEE SHT. 1/EI FOR LOCATIONS. ALL AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION, SECTION C405.2(2).
 - CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH SECTION C405.3, LIGHTING SYSTEM FUNCTIONAL TESTING, PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION.
 - PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION, SECTION C405, THE TOTAL INTERIOR LIGHTING ALLOWANCE (WATTS) ACCORDING TO TABLE C405.3.2(1) USING THE BUILDING AREA METHOD IS 14840 WATTS (OFFICE LPT: 82 w/f12 x 1810 f12 = 14840 WATTS). NEW LED LIGHTING AS SPECIFIED HAS A TOTAL INSTALLED WATTAGE OF 10260 WATTS (5 TOTAL FIXTURES x 18 WATTS + 26 TOTAL FIXTURES x 36 WATTS = 10260 WATTS).
 - PROVIDE PAINTED AREA IN FRONT OF ELECTRICAL PANEL(S) WITH DIMENSIONED CLEARANCES COMPLIANT WITH ARTICLE 110.26 NEC. PAINT FLOOR AREA WITH YELLOW BACKGROUND WITH 3 IN. TO 4 IN. RED LETTERS INDICATING "ELECTRICAL SPACE ONLY NO-STORAGE". SEE DETAIL 2/E3.
 - PROVIDE A 220-VOLT OUTLET IN PASSAGE AREA, RM. 109, FOR COPIER.

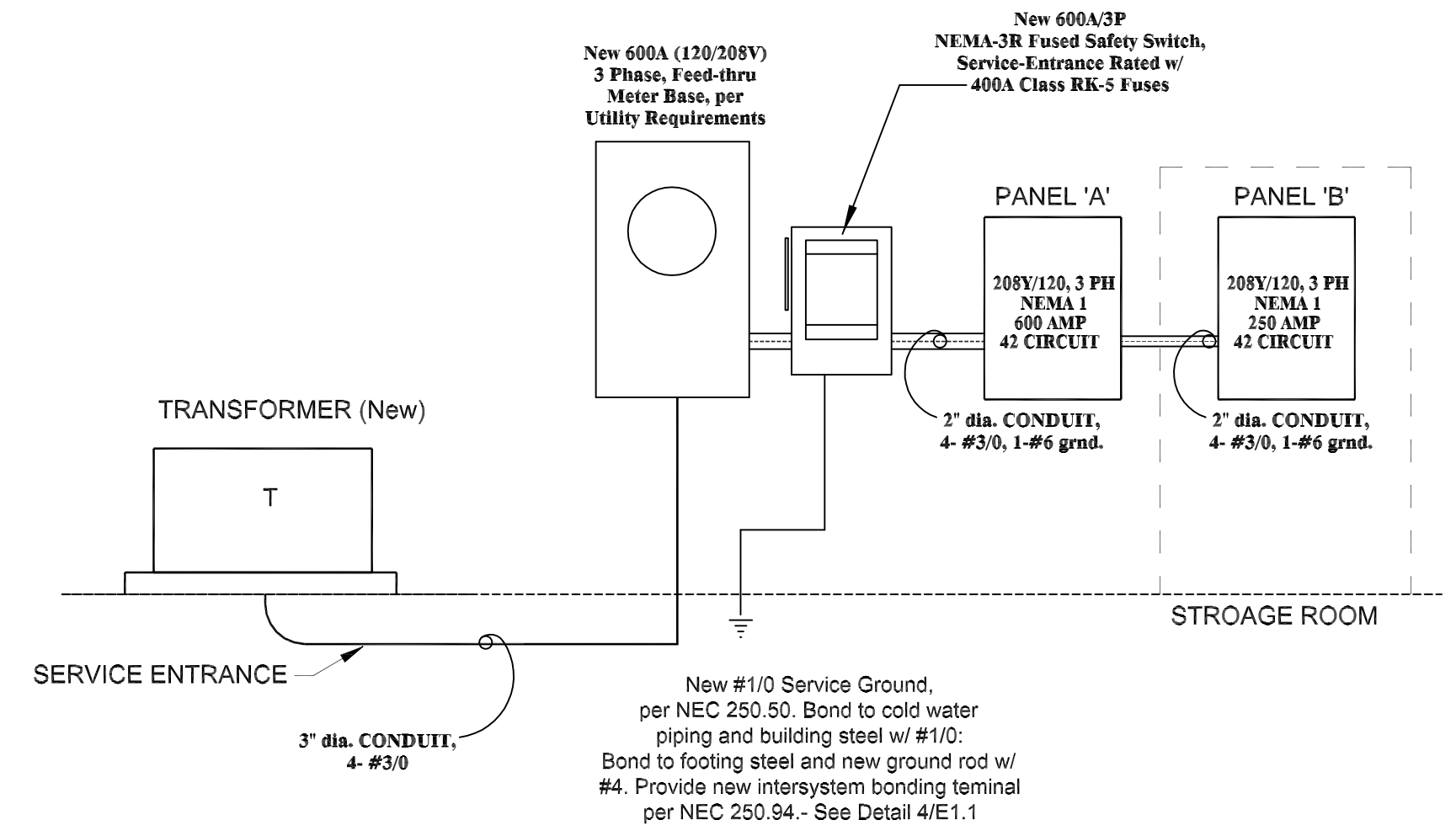
ELECTRICAL LEGEND:

- NEW 110V ELECTRICAL DUPLEX OUTLET- HEIGHTS VARY
- NEW 110V ELECTRICAL DUPLEX OUTLET- HEIGHTS VARY
- SWITCH OCCUPANCY SENSORS
- JUNCTION BOX & DISCONNECT SWITCH
- LOCATE NEW HVAC THERMOSTAT
- JUNCTION BOX

POWER PLAN NOTES:

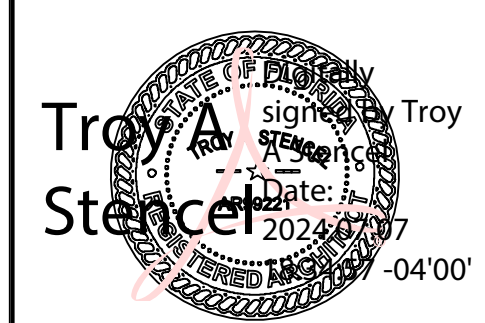
- PROVIDE LOCKING COVER FOR RECEPTACLE.
- TWO 10 AWG THWN CU & ONE 10 AWG CU GRND IN 3/4" CONDUIT. PROVIDE 20A/1P MOLDED CASE SWITCH FOR DISCONNECT. CONNECT WATER HEATER.
- PROVIDE 20A/2P N.F. NEMA-3R SAFETY SWITCH w/ 3/4" CONDUIT- TWO (2) #14 & ONE (1) #14 GRND, TO PANEL.
- PROVIDE POWER/ CONTROL WIRING TO INDOOR UNIT PER MANUFACTURER'S REQUIREMENTS. INDOOR COOLING UNIT POWERED FROM OUTDOOR UNIT.

2 ELECTRICAL PANEL
NO SCALE



3 POWER RISER DIAGRAM
NO SCALE

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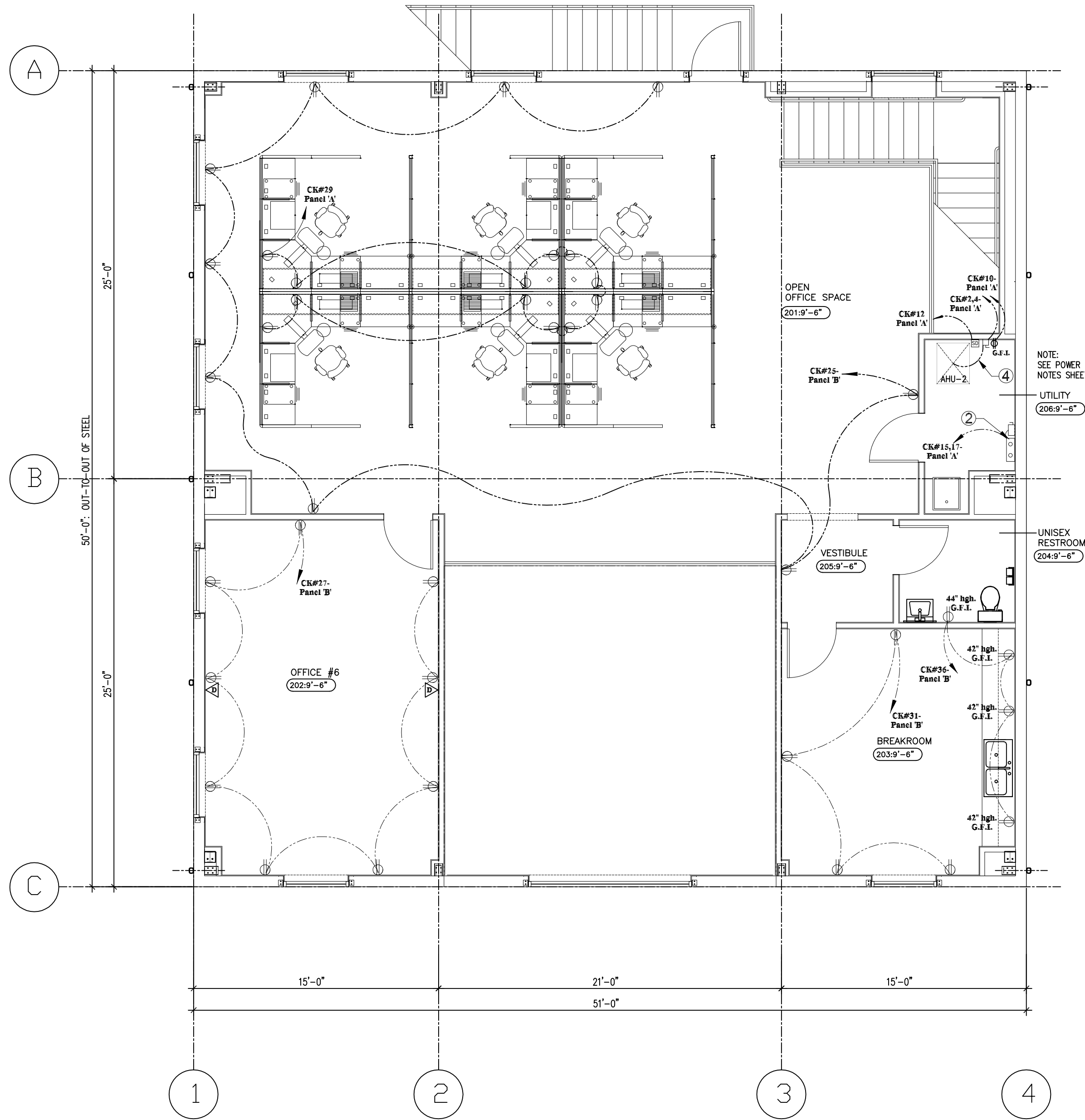


TROY ANTHONY STENCEL
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SUBMITTAL			
PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS
REVISIONS			
#	DATE	REMARKS	
PROJECT NUMBER			
AW24021			
PHASE			
RELEASE FOR PERMIT			
SHEET TITLE			
NEW OVERALL FIRST FLOOR POWER PLAN, DETAILS & NOTES			
SHEET NUMBER			
E3			



1
E4
3/16" = 1'-0"

ELECTRICAL NOTES:

- A. MISCELLANEOUS:**
1. ALL ELECTRICAL WORK TO BE BY NATIONAL ELECTRICAL CODE (NFPA 70- 2020 EDITION). PROVIDE RECEPTACLES AS NOTED ON POWER PLAN.
 2. EXIT, EMERGENCY 4 NIGHT LIGHTS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHES. PROVIDE LOCK TAB ON LIGHT CIRCUITS WHICH FEED POWER TO EXIT, EMERGENCY 4 NIGHT LIGHT FIXTURE.
 3. PRIOR TO INSTALLATION OF SWITCHES 4 WIRING, CONTRACTOR SHALL COORDINATE SWITCH LEG WITH ELECTRICIAN. ALL SWITCHES SHALL BE RATED 20 AMPERE, 120V FOR CONTINUOUS OPERATION.
 5. NEW TYPICAL ELECTRICAL PANEL:
PANEL 'B': 208Y/120VOLT, 3 PHASE, 250 AMP/6 WITH 42 SPACES- 4 WIRE:
SEE NEW ELECTRICAL LOAD CALCULATIONS AND PANEL 'B' LAYOUT SHEET E5.
 6. WIRE GAUGE, INSULATION TYPE AND TEMPERATURE RATING AS WELL AS TYPE, SIZE AND CONSTRUCTION OF CONDUIT, MUST MEET OR EXCEED APPLICABLE SPECIFICATIONS OF LOCAL BUILDING CODES AND OF THE NATIONAL ELECTRICAL CODE (NFPA 70- 2020 EDITION).
 7. NEW BUILDING SHALL INCLUDE MANUAL LIGHTING CONTROLS THAT MEET THE REQUIREMENTS OF SECTION C405.2.1, 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION.
 8. INTERIOR LIGHTING CONTROLS- EACH AREA ENCLOSED BY FLOOR-TO-CEILING PARTITIONS SHALL HAVE AT LEAST ONE MANUAL CONTROL FOR THE LIGHTING SERVING THAT AREA. THE REQUIRED CONTROLS SHALL BE LOCATED WITHIN THE AREA SERVED BY THE CONTROLS.
 9. WALL SWITCH OCCUPANCY SENSORS SHALL BE LOCATED IN OFFICE AND BATHROOM- SEE SHT. 1/E1 FOR LOCATIONS. ALL AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION, SECTION C405.2.2.
 10. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH SECTION C405.3, LIGHTING SYSTEM FUNCTIONAL TESTING, PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION.
 11. PER 2023 FBC- ENERGY CONSERVATION CODE, 8th EDITION, SECTION C405, THE TOTAL INTERIOR LIGHTING ALLOWANCE (WATTS) ACCORDING TO TABLE C405.3.2(1) USING THE BUILDING AREA METHOD IS 13900 WATTS (OFFICE LPD: 82 w/ft2 x 1696 ft2 = 13900 WATTS). NEW LED LIGHTING AS SPECIFIED HAS A TOTAL INSTALLED WATTAGE OF 12420 WATTS (9 TOTAL FIXTURES x 10 WATTS + 32 TOTAL FIXTURES x 36 WATTS = 12420 WATTS.)

ELECTRICAL
LEGEND:

- Ø NEW 110V ELECTRICAL DUPLEX
OUTLET- HEIGHTS VARY
- Ø G.E.I. NEW 110V ELECTRICAL DUPLEX
OUTLET- HEIGHTS VARY
- ⌘ SWITCH
OCCUPANCY SENSORS
- JUNCTION BOX 4 DISCONNECT SWITCH
- ① LOCATE NEW HVAC THERMOSTAT
- ⌐ JUNCTION BOX

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Troy A. Stencer

by Troy A. Stencer

Date: 2024-07-15

2024-07-15 10:04:00

DESIGNED AND SIGNED

TROY ANTHONY STENCER

FLORIDA ARCHITECT #AR99221

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OFFICE BUILDING

970 S.W. Arlington Boulevard
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SUBMITTAL

PHASE	DATE	DRAWN	CHECK
PERMIT	26 Jun	TAS	TAS

REVISIONS

#	DATE	REMARKS

PROJECT NUMBER

AW24021

PHASE

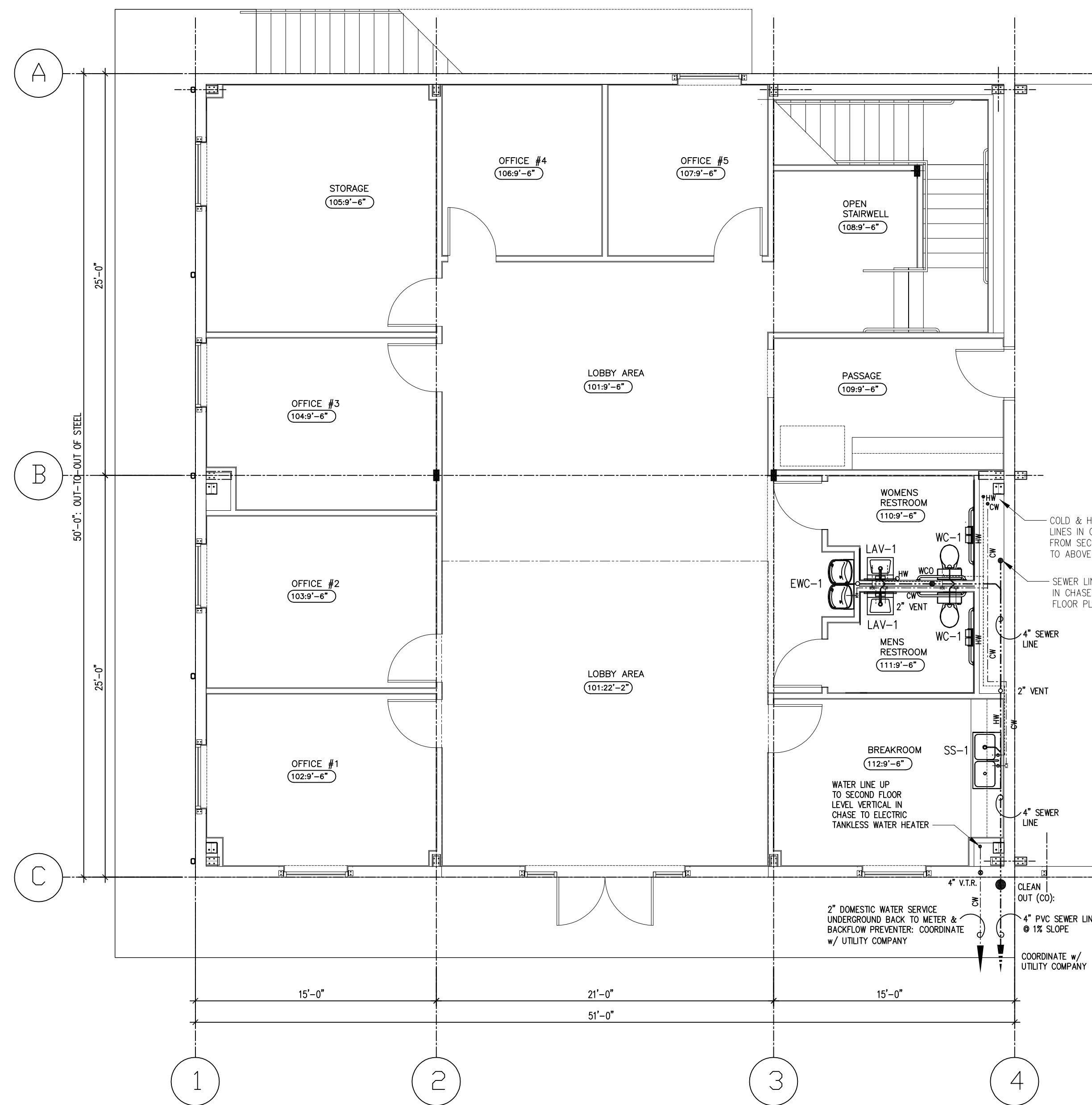
RELEASE FOR PERMIT

SHEET TITLE

NEW OFFICE
SECOND FLOOR POWER
PLAN, DETAILS & NOTES

SHEET NUMBER

E4



OFFICE: FIRST
FLOOR PLUMBING PLAN

PLUMBING

GENERAL NOTES:

A. MISCELLANEOUS:

1. NEW PLUMBING IS TO BE PROVIDED FOR BOTH SANITARY SUELER & DOMESTIC WATER LINES. CONTRACTOR TO FIELD VERIFY LOCATION OF EACH RESPECTIVE LINE. ALL NEW PLUMBING NEEDS TO ACCOMMODATE ONE (1) NEW H/C STALL, & (1) LAVATORIES IN EACH OF THE MEN'S & WOMEN'S RESTROOMS. ADDITIONALLY, NEW PLUMBING TO ACCOMMODATE AN ELECTRIC WATER COOLER, TANKLESS WATER HEATER, BREAKROOM SINKS AND MOP SINK. CONTRACTOR TO REVIEW NEW FLOOR PLANS & FIELD VERIFY PLUMBING LOCATIONS.

2. CONTRACTOR TO PROVIDE AN A.O. SMITH, PROLINE, ELECTRIC TANKLESS 4-CHAMBER WATER HEATER, *C4LA-220E. CONTRACTOR TO INSTALL TANKLESS WATER HEATER WALL-MOUNTED, VERTICAL IN UTILITY ROOM, RM. 206, AS INDICATED ON PLANS. INSTALL TANKLESS WATER HEATER PER MFR'S SPECIFICATIONS & REQUIREMENTS.

3. CONTRACTOR TO PROVIDE NEW SERVICE SINK EQUIVALENT TO MUSTEE 19", 20"x24", 18 GALLON CAPACITY, WITH A THIRTY-FOUR INCH (34") HEIGHT AFF.- WHITE. CONTRACTOR TO INCLUDE WALL GUARDS ON THREE SIDES & SINK MOUNTED SERVICE SINK FAUCET.

4. HOT WATER PIPE INSULATION WITH 1" WALL THICKNESS IS REQUIRED. CONTRACTOR TO PROVIDE PIPE INSULATION EQUAL TO OWENS CORNING 1" THICK, HINGED WITH SELF SEALING LAP FIBERGLASS PIPE INSULATION, MODEL #T225T0.

5. WATER TEMPERATURE LIMITING DEVICE(S) FOR TEMPERED WATER IS REQUIRED.

6. CONTRACTOR TO INSTALL FLUSH HANDLE ON NEW TOILET FIXTURES- HANDLES TO BE LOCATED ON OPPOSITE SIDE FROM ANY DRYWALL SIDEWALLS (AWAY FROM SIDEWALLS).

7. PROVIDE ADA COMPLIANT COVERS ON SINK WATER SUPPLIES AND DRAINS

8. ALL DOMESTIC WATER SUPPLY LINES SHALL BE COPPER

9. PROVIDE ADA FAUCET TYPES AS FOLLOWS:
A. MANUALLY OPERATED WITH HANDLES, NO WIRING, OR
B. AUTOMATIC INFRARED WHICH IS HARD WIRED.

B. WATER & PLUMBING:

10. CONTRACTOR TO FIELD VERIFY LOCATION OF BACK FLOW PREVENTER & METER AS PROVIDED BY LAKE CITY UTILITY COMPANY- COORDINATE.

11. CONTRACTOR TO FIELD VERIFY LOCATION OF NEW 2" MAIN WATER LINE (W) AS INDICATED ON PLUMBING PLAN. CONTRACTOR TO PROVIDE REQUIRED WATER VALVE-COORDINATE WITH UTILITY COMPANY.

12. CONTRACTOR TO FIELD VERIFY LOCATION OF NEW 4" SEWER LINE AS INDICATED ON PLUMBING PLAN. CONTRACTOR TO PROVIDE REQUIRED CLEAN OUTS- COORDINATE LOCATIONS WITH UTILITY COMPANY.

13. CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER IF NEW 6" PVC LINES AT EACH DOWNSPOUT ARE TO BE LOCATED UNDERGROUND AND AWAY FROM BUILDING.

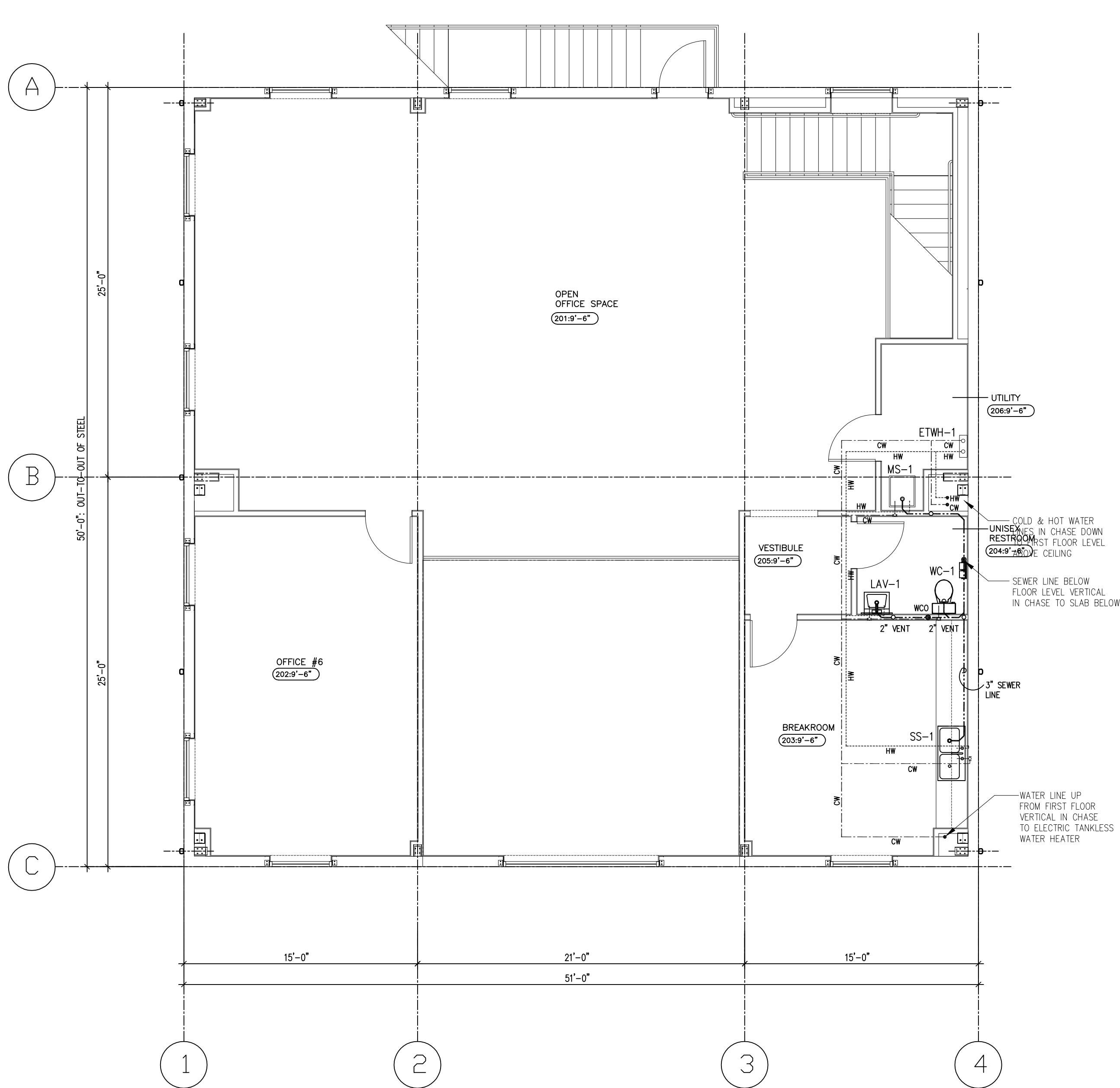
WATER HEATER SCHEDULE									
UNIT TYPE MARK	UNIT IDENTIFIER	DESCRIPTION	MANUFACTURER	MODEL	STORAGE CAPACITY	HEATING INPUT (KW)	TEMP. SET POINT	ACTIVATION (GPM)	NOTES/ACCESSORIES
ETWH	1	ELECTRIC TANKLESS WATER HEATER	A.O. SMITH	C4LA-220E	Unlimited	22	120	0.6	ELECTRIC, FOUR (4) CHAMBER TANKLESS WATER HEATER WALL MOUNTED VERTICALLY- VERIFY MFR.'S INSTALLATION REQUIREMENTS & CLEARANCES

TOILET ACCESSORIES

	DESCRIPTION	NAMUF / MODEL AND REMARKS		DESCRIPTION	NAMUF / MODEL AND REMARKS
1	36" GRAB BAR	BRADLEY- SERIES #612 SST. 1-1/2"DIA. (or see UFG Specs.)	6	HANDICAP WATER CLOSET	AMERICAN STANDARD- MODEL No. 2467.100
2	42" GRAB BAR	BRADLEY- SERIES #612 SST. 1-1/2"DIA. (or see UFG Specs)	7	LAVATORY	AMERICAN STANDARD- MODEL No. 0355.012
3	TOILET PAPER DISPENSER	BOBRICK- MODEL No. B-4200 (Stainless Steel)	8	SOAP DISPENSER	BOBRICK- MODEL No. B-26607
4	18"x30" MIRROR	BRADLEY- MODEL 781-1630 (18"x30") (or see UFG Specs)	9	SANITARY NAPKIN DISPOSAL	BOBRICK- MODEL No. B-270 (Stainless Steel)
5	PAPER TOWEL DISPENSER	BOBRICK-MODEL No. 3944-52 (C-Fold Stainless Steel)			

NOTES

1. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET PER SECTION 604.6 OF THE DOJ-ADA STANDARDS FOR ACCESSIBLE DESIGN, 2010 ED.



OFFICE: SECOND
FLOOR PLUMBING PLAN

2	FLOOR
P1	3/16" = 1'-0"

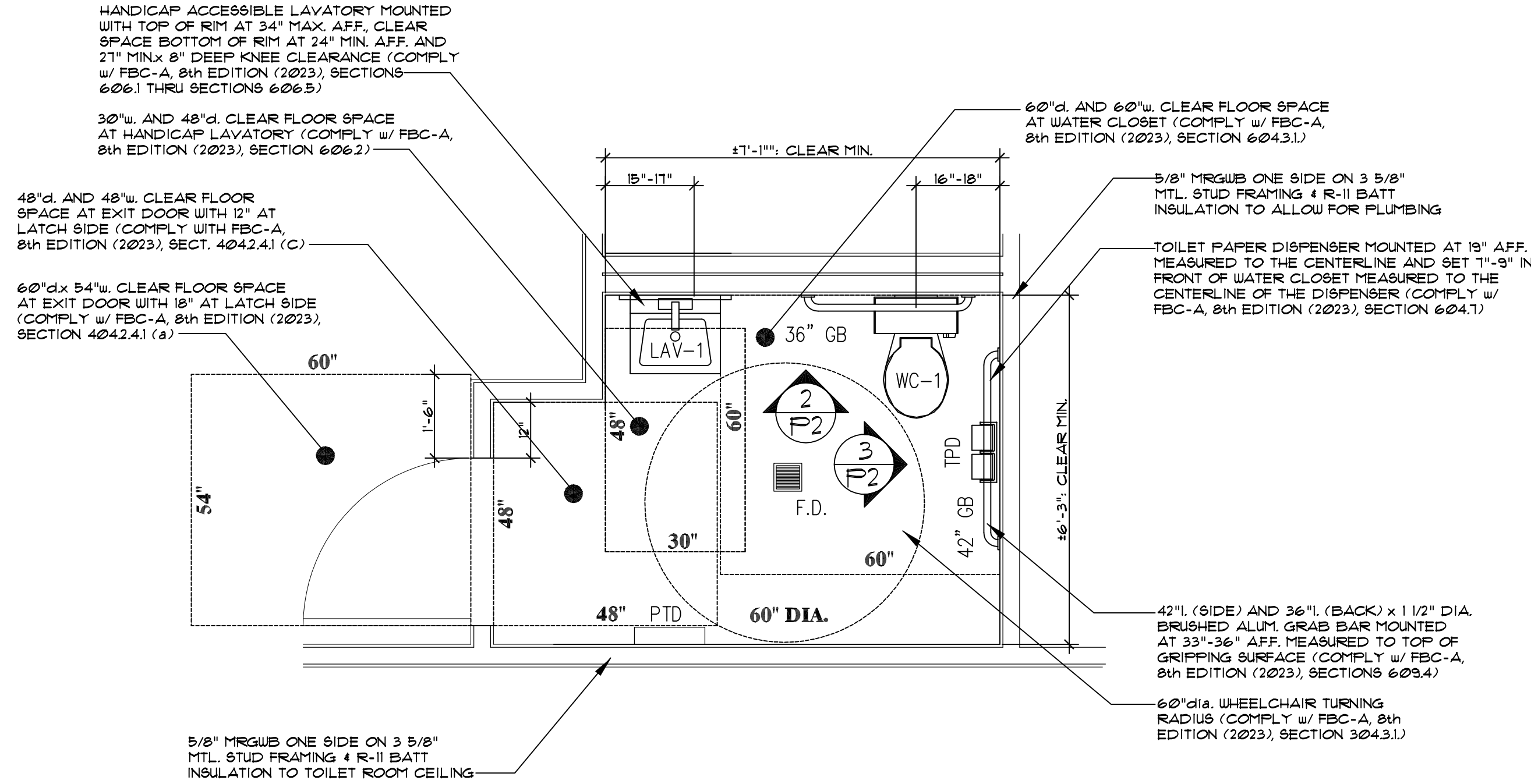
PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	ROUGH-IN SIZE (INCHES)				REMARKS
		HW	CW	WASTE	VENT	
WC-1	WATER CLOSET	--	1/2	3	2	
LAV-1	LAVATORY	1/2	1/2	1 1/2	2	
SS-1	STAINLESS STEEL SINK	1/2	1/2	1 1/2	2	
EW-C-1	WATER COOLER	--	1/2	3	2	
MS-1	MOP SINK	1/2	1/2	3	2	

1. CONTRACTOR TO CONFIRM PIPE SIZING WITH INDIVIDUAL MANUFACTURER'S REQUIREMENTS

PLUMBING FIXTURE SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EW-C-1	WATER COOLER	ELKAY	EZSTLWSLKC EZ210 0355 012	B-LEVEL, ADA COMPLIANT WATER COOLER WITH FRONT AND SIDE BUTTON OPERATION, FILT. & WERRIC, INCLUDING BOTTLE FILLER, MOUNTING HGT. PER ADA CODE REQUIREMENTS.
LAV-1	LAVATORY	AMERICAN STANDARD		"LUCERNE" BASIN, 4" (102mm) CENTERS, 15" x 10" x 6-1/2" (381mm x 254mm x 165mm) DEEP BOWL, WALL HUNG, VITREOUS CHINA, SPLASH BACK, FRONT OVERFLOW, SELF-DRAINING DECK WITH WALL HANGER, PROVIDE WITH WATTS LFMMV THERMOSTATIC MIXING VALVE AND SET OUTLET TEMPERATURE TO 100° F. PROVIDE WITH AMERICAN STANDARD 5502.175 MODEL FAUCET WITH POLISHED CHROME FINISH, INSTALL PER ADA REQUIREMENTS, PROVIDE WITH LAVGUARD BY TRUEBORG.
SS-1	STAINLESS STEEL SINK	ELKAY	DSE233222	DAYTON 33" DRAPOIN DOUBLE BASIN STAINLESS STEEL KITCHEN SINK w/ DRAIN FAUCET.
WC-1	WATER CLOSET	AMERICAN STANDARD	2467.100	AMERICAN STANDARD, CADET FLOWISE RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET 1.1 GPF, WHITE, 2467.100.
MS-1	MOP SINK	MUSTEE	#19CFP	20" w. x 24" x 35", WHITE FREE-STANDING POLYPROPYLENE UTILITY SINK WITH DRAIN & FAUCET w/ HEAVY GAUGE STEEL LEGS, 13" DEEP LEAK PROOF 1 1/2" INTEGRAL MOLDED DRAIN.

1. CONTRACTOR TO OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT SPECIFICALLY THE DIMENSIONS WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS ENTRY LOCATIONS, ETC. AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

2. ALL SHUT-OFF VALVES MUST BE ACCESSIBLE



NEW H/C RESTROOM-
ENLARGED FLOOR PLAN

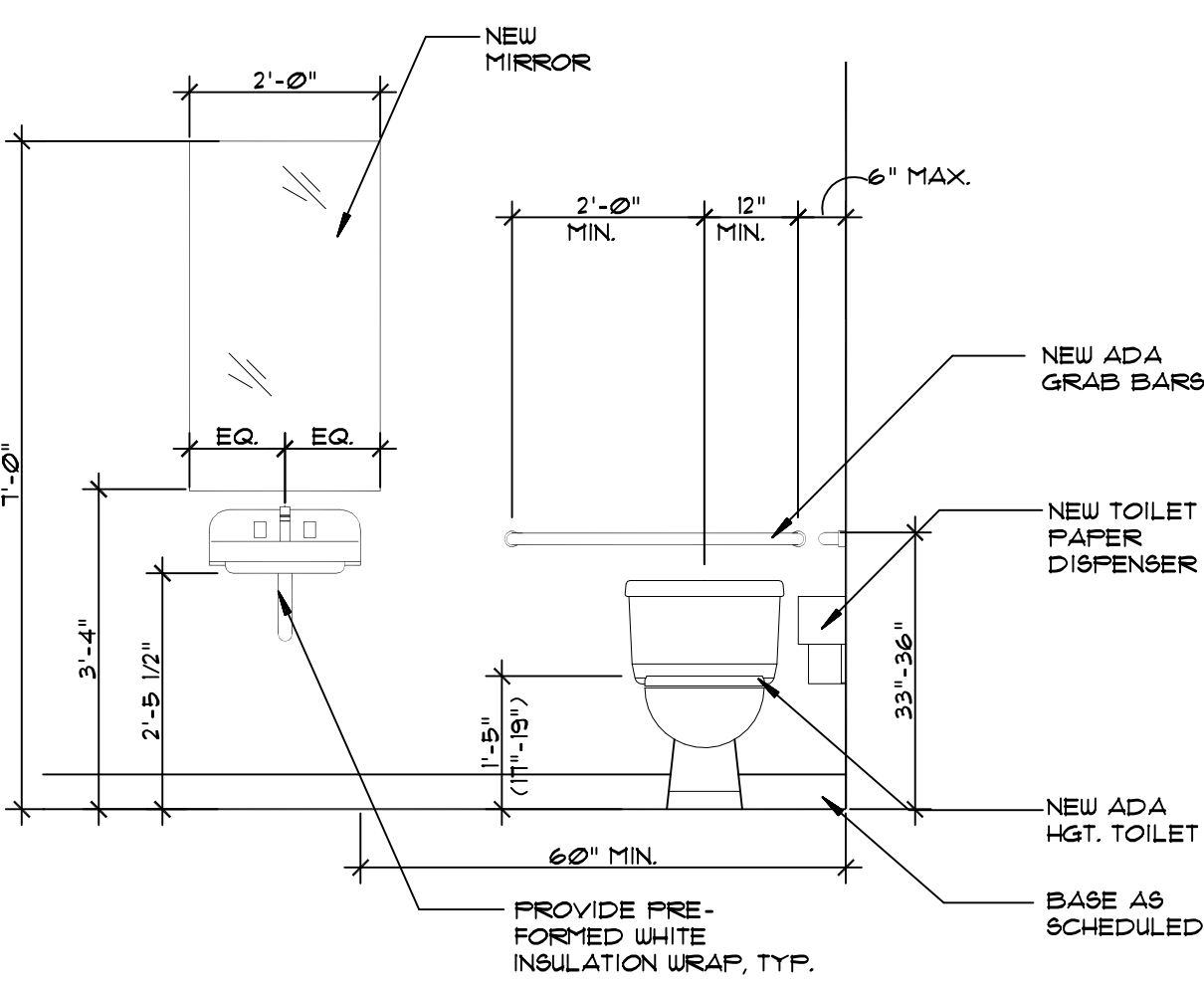
1
P2
SCALE: 1/2"=1'-0"

TABLE:

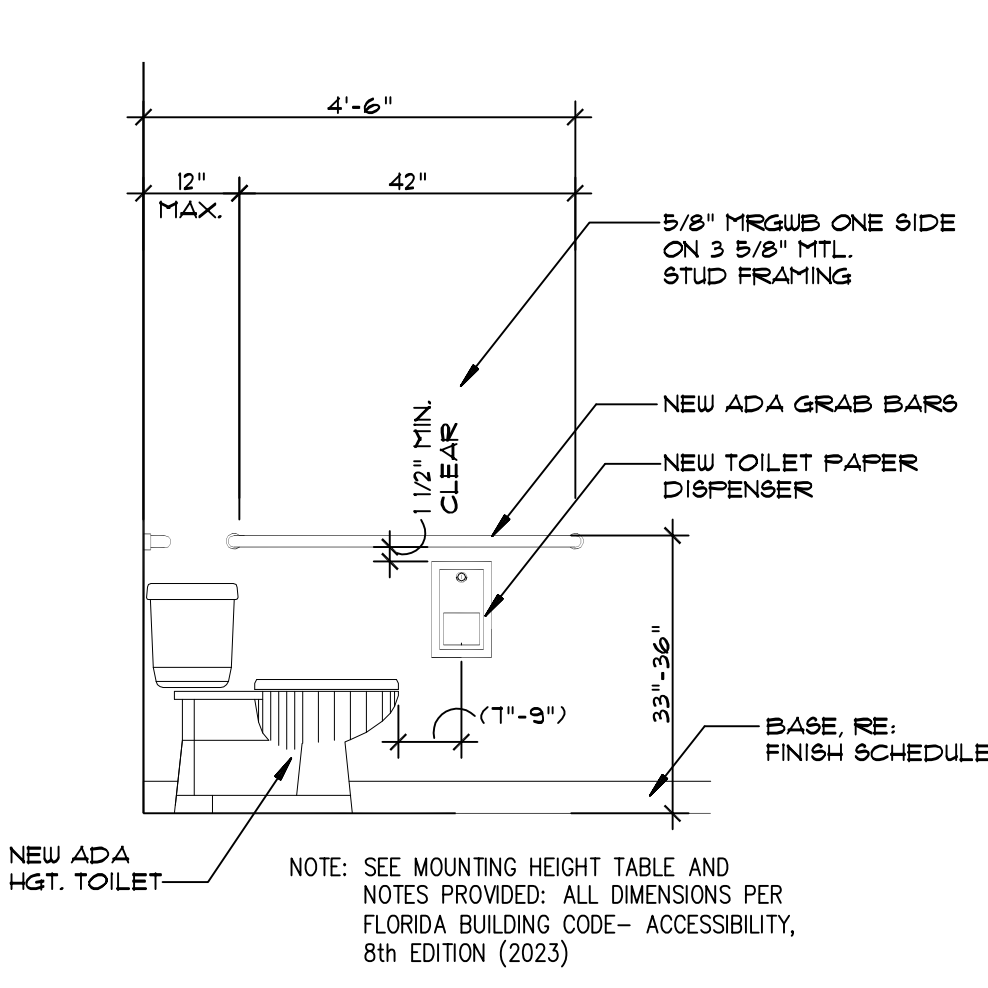
SCHEDULE OF MOUNTING HEIGHTS			
ITEM	HEIGHTS	NOTES	REMARKS
WALL HUNG LAVATORIES	34" MAX.	1, 2	FROM FIN. FLR. TO TOP OF LAV. RIM
MIRRORS	40" MAX.	5	FROM FIN. FLR. TO BOTTOM OF MIRROR
GRAB BARS	33"—36"	4, 6	FROM FIN. FLR. TO TOP OF GRIPPING SURFACE
TOILET PAPER HOLDERS	19"	3	FROM FIN. FLR. TO CENTERLINE
TOWEL DISPENSER/ WASTE RECEPTACLES	59 1/2"		FROM FIN. FLR. TO TOP OF UNIT
FIRE EXTINGUISHERS	48"		FROM FIN. FLR. TO TOP OF CABINET PULL

NOTES:

- EXCEPT DESIGNATED HANDICAP UNITS, PROVIDE KNEE CLEARANCE THAT IS AT LEAST 21" HGH, 30" WIDE & 19" DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
- SET HANDICAP LAVATORIES AT 21" CLEAR FROM FIN. FLOOR TO BOTTOM OF LAVATORY; PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISH FLOOR TO BOTTOM OF LAVATORY APRON.
- SET TOILET PAPER DISPENSER 1 INCHES (MIN.) TO 9 INCHES (MAX.) IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER PER FBC- ACCESSIBILITY, 8th EDITION (2023), SECTION 604.1- DISPENSERS.
- SET GRAB BARS 33 INCHES (MIN.) TO 36 INCHES (MAX.) ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE PER FBC-ACCESSIBILITY, 8th EDITION (2023), SECTION 603.4- POSITION OF GRAB BARS.
- MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" MAX. ABOVE FINISH FLOOR.
- GRAB BARS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS. PER FBC- BUILDING, 8th EDITION (2023), SECTION 1607.2.2.



2
P2
H/C RESTROOM
SCALE: 1/2"=1'-0"



3
P2
H/C RESTROOM
SCALE: 1/2"=1'-0"

PLUMBING SPECIFICATIONS:

1.1 SUMMARY OF WORK

- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- ALL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE 2023 FLORIDA PLUMBING CODE (EIGHT EDITION), ALL LOCAL CODES, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.

1.2 DOMESTIC WATER SUPPLY PIPING

- UNDERGROUND: PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
- ABOVE GROUND: ALL PIPING SHALL BE COPPER TUBING ASTM B 88 TYPE L, HARD DRAWN OR SCHEDULE 40 CPVC.
 - FITTINGS: ANSII/ASME B16.18, CAST BRASS, OR ANSI ASME B16.22, WROUGHT COPPER OR ASTM F438 FOR SCHEDULE 40.
 - JOINTS: ANSII/ASTM B32 SOLDER GRADE 95TA OR AWS A5.8 BCuP-2 BRAZING ALLOY OR ASTM F438 FOR SCHEDULE 40.
- ALL HOT WATER PIPING 1 1/4" DIAMETER AND LESS SHALL HAVE 1" FIBERGLASS INSULATION. ALL HOT WATER PIPING 1-1/2" AND GREATER SHALL HAVE 2" FIBERGLASS INSULATION.
- ALL COLD WATER PIPING TO BE INSULATED WITH 1" FOAM INSULATION.
- SHUTOFF VALVES, WITH UNIONS, SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE OR FOOD SERVICE EQUIPMENT ITEM TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO JENKINS #902-T BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEATS AND PACKING, 400LB. W.O.G., SOLDER END.
- PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE OR GROUP OF FIXTURES AS REQUIRED.
- PROVIDE THERMOSTATIC MIXING VALVES SET AT 110 DEGREES FAHRENHEIT AT EACH LAVATORY, HAND WASH SINK, AND SINK ACCESSIBLE TO THE PUBLIC.
- NO DOMESTIC HOT WATER HIGHER THEN 140 DEGREES FAHRENHEIT SHALL BE PERMITTED WITHIN CPVC PIPING OR DRAINED TO PVC SANITARY PIPING.
- CPVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.

1.3 SANITARY/STORM DRAINAGE AND VENT PIPING

- ABOVE GRADE: ALL PIPING SHALL BE CAST IRON ASTM A74 WEIGHT WITH CAST IRON FITTINGS, JOINTS HUB-AND-SPIGOT, CISPI HSN COMPRESSION TYPE WITH ASTM C 564

NEOPRENE GASKETS OR PVC ASTM D2865 SCHEDULE 40 WITH PVC FITTINGS, JOINTS HUB-AND-SPIGOT WITH SOLVENT WELDS.

- BELOW GRADE: ALL PIPING SHALL BE CAST IRON ASTM A74 SERVICE WEIGHT WITH CAST IRON FITTINGS, JOINTS HUB-AND-SPIGOT WITH SOLVENT WELDS.
- PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
- DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG RADIUS FITTINGS.
- DRAINAGE PIPING 2" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 2" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
- ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING THROUGH THE ROOF.
- ALL VENTS SHALL BE INSTALLED A MINIMUM OF TEN FEET FROM EQUIPMENT OUTSIDE AIR INTAKES.

1.4 PENETRATIONS

- ALL STUB-INS AND/OR SLAB OR WALL PENETRATIONS TO BE PER INTERNATIONAL PLUMBING CODE. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.

1.5 PIPE SUPPORTS

- ABOVE GRADE: ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PREFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN CHAPTER 8 OF THE INTERNATIONAL PLUMBING CODE.
- BELOW GRADE: EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ENTIRE LENGTH.
 - INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.
 - EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

1.6 PIPE INSULATION

- INSULATE (AS ALLOWED BY CODE) ALL LISTED SERVICE PIPING AS FOLLOWS. STORM WATER PIPING: PROVIDE 1" PREFORMED FIBERGLASS, AS/JS-11, FLAME 25, SMOKE DEVELOPED 50. ASTM C-547. FOR CONDENSATE PIPING PROVIDE 1/2" THICK INSULATION OF SAME CHARACTERISTICS AS LISTED FOR 1" ABOVE. WHERE PERMITTED BY LOCAL CODES. PROVIDE 1/2" SELF ADHESIVE UNICELLULAR FOAM PIPE INSULATION WITH PREFORMED PVC FITTING COVERS EQUAL TO SELF ADHESIVE ARMSTRONG 2000 WITH K FACTOR OF 0.27 AT 75

DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE OR WASTE PIPING WITH FLUID TEMPERATURE BELOW 60 DEGREES F.

1.7 ACCESSORIES

- AIR GAP FITTINGS
 - JR SMITH FIGURE 3955 OR EQUAL BY WADE, ZURN OR JOSAM.
- VACUUM BREAKERS
 - MOP SINKS NOT PROTECTED BY AN AIR GAP SHALL BE SUPPLIED WITH AN INTEGRAL VACUUM BREAKER OR REDUCED PRESSURE BACKFLOW PREVENTER AT EACH OUTLET.

1.8 MISCELLANEOUS

- COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATIONS.
- DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
- THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
- ALL PIPING TO BE PROPERLY LABELED.

1.9 TESTING

- PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE INTERNATIONAL PLUMBING CODE.
- TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

ARCWORKS
architecture • interiors • planning

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troy@arcworksgroup.com

Troy A. Stencel

by Troy A. Stencel

Date: 2024-07-17

04'00"

DESIGNED AND SIGNED

TROY ANTHONY STENCEL
FLORIDA ARCHITECT #AR99221

GENERAL CONTRACTOR:
SIMQUE CONSTRUCTION, LLC.
David Simque
518 Little Road
Lake City, Florida 32024
386.867.0294-m
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C.A. BOONE CONSTRUCTION, LLC.
OFFICE BUILDING
970 S.W. Arlington Boulevard
Lake City, Florida 32025

SUBMITTAL					
PHASE	DATE	DRAWN	CHECK		
PERMIT	26 Jun	TAS	TAS		
REVISIONS					
#	DATE	REMARKS			
PROJECT NUMBER AW24021					
PHASE RELEASE FOR PERMIT					
SHEET TITLE NEW ENLARGED H/C RESTROOM PLAN, ELEVATIONS, SPECIFICATIONS & NOTES					
SHEET NUMBER P2					