

ABBREVIATIONS

Table of abbreviations for architectural symbols, including terms like And, Angle, Insulation, etc., with their corresponding symbols and full names.

GENERAL PROJECT NOTES

- GENERAL NOTES: 1. THIS PROJECT AND ALL WORK ASSOCIATED WITH PROJECT SHALL CONFORM TO STATE AND LOCAL CODES AND ORDINANCES... DRAWING NOTES: 1. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS ON THESE DOCUMENTS SHALL BE TO FACE OF CURB, FACE OF CONCRETE OR MASONRY...

SPECULATIVE SUITE

1411 S.POTOMAC ST, SUITE 440
AURORA, CO 80012

For Takeoff or Estimate Per Office

PROJECT DATA

BUILDING DEPARTMENT: CITY OF AURORA, COLORADO
BUILDING CODES: 2009 INTERNATIONAL BUILDING CODE
OCCUPANCY CLASSIFICATION: PER IBC CHAPTER 3 (SECTION 302) - B
FIRE PARTITION: PER IBC CHAPTER 7 - 1-HOUR
TYPE OF CONSTRUCTION: PER IBC CHAPTER 6 (SECTION 602) - II-B
SPRINKLERED: YES
NUMBER OF STORIES: 4
ASSESSOR'S PARCEL NO.: 1973-24-1-23-003
PROJECT SCOPE: THE SCOPE OF THIS PROJECT IS 2ND GENERATION INTERIOR BUILD OUT TO INCLUDE NEW MILLWORK, FINISH UPGRADES, AND NEW ADA COMPLIANT RESTROOM.
TENANT OCCUPANCY: OFFICE (B) 2,072 S.F.

SHEET INDEX

Table listing architectural and electrical sheets: ARCHITECTURAL (9 SHEETS) including Title Sheet, General Notes, Accessibility Notes, etc.; ELECTRICAL (2 SHEETS) including One Line Notes, Power Plan; MECHANICAL (3 SHEETS) including Mechanical Notes, Demolition Floorplan; PLUMBING (3 SHEETS) including Plumbing Notes, Demolition Floorplan, Plumbing Floorplan.

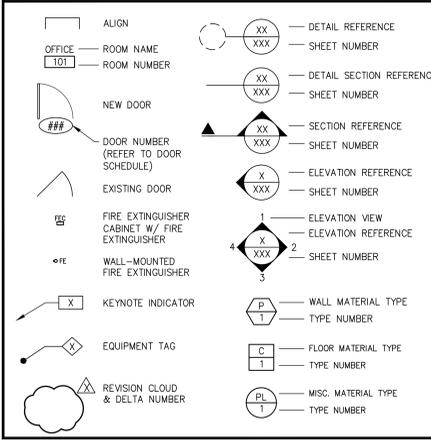
SEPARATE FIRE SPRINKLER PERMIT REQUIRED
Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. 2009 IFC, Section 105.7.1.

SEPARATE FIRE ALARM PERMIT REQUIRED
Due to the proposed work the general contractor is required to obtain the services of a fire alarm contractor to determine if a separate alarm permit is required. If it is determined that the spacing of the fire alarm devices is not in compliance, then a separate fire alarm permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. 2009 IFC, Section 105.7.5.

DEFERRED SUBMITTAL:

DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEERS OF RECORD WHO SHALL REVIEW AND PROVIDE NOTATION INDICATING DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. SUBMITTAL MATERIALS SHALL INCLUDE PLANS, DETAILS AND CALCULATIONS PREPARED AND SIGNED BY A STATE REGISTERED ENGINEER. CONTRACTOR SHALL SUBMIT ARCHITECT AND ENGINEER REVIEWED SUBMITTAL MATERIALS TO THE BUILDING OFFICIAL FOR REVIEW AND PERMIT APPROVAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED PRIOR TO OBTAINING THE BUILDING OFFICIAL'S APPROVAL OF THE SUBMITTAL.

SYMBOLS LEGEND



PROJECT MANAGER

C.B. RICHARD ELLIS
4500 EAST 9TH AVE, SUITE 600 DENVER, CO 80220
LILA WALKER PH: (720) 528-6392

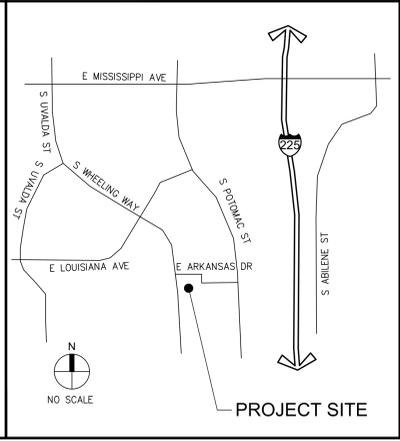
ARCHITECT

WARE MALCOMB
1600 CHAMPA ST, SUITE 350 DENVER, CO 80202
EMILY ZABEL PH: (720) 488-2626

CONSULTANTS

ELECTRICAL ENGINEER: CARL FRETWELL PH: (303) 985-0548
MECHANICAL ENGINEER: BRYAN MOEN PH: (303) 907-4285

CITY MAP



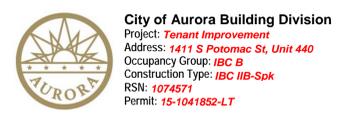
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12-14-15

SPEC SUITE
1411 S. POTOMAC ST, SUITE 440
AURORA, CO 80012

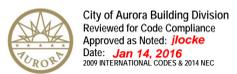


City of Aurora Building Division
Project: Tenant Improvement
Address: 1411 S Potomac St, Unit 440
Occupancy Group: IBC B
Construction Type: IBC IIB-Spk
RSN: 074571
Permit: 15-1041852-LT

Failure to follow the approved plans may result in an hourly to review the field changes for code compliance.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2009 IBC 105.4

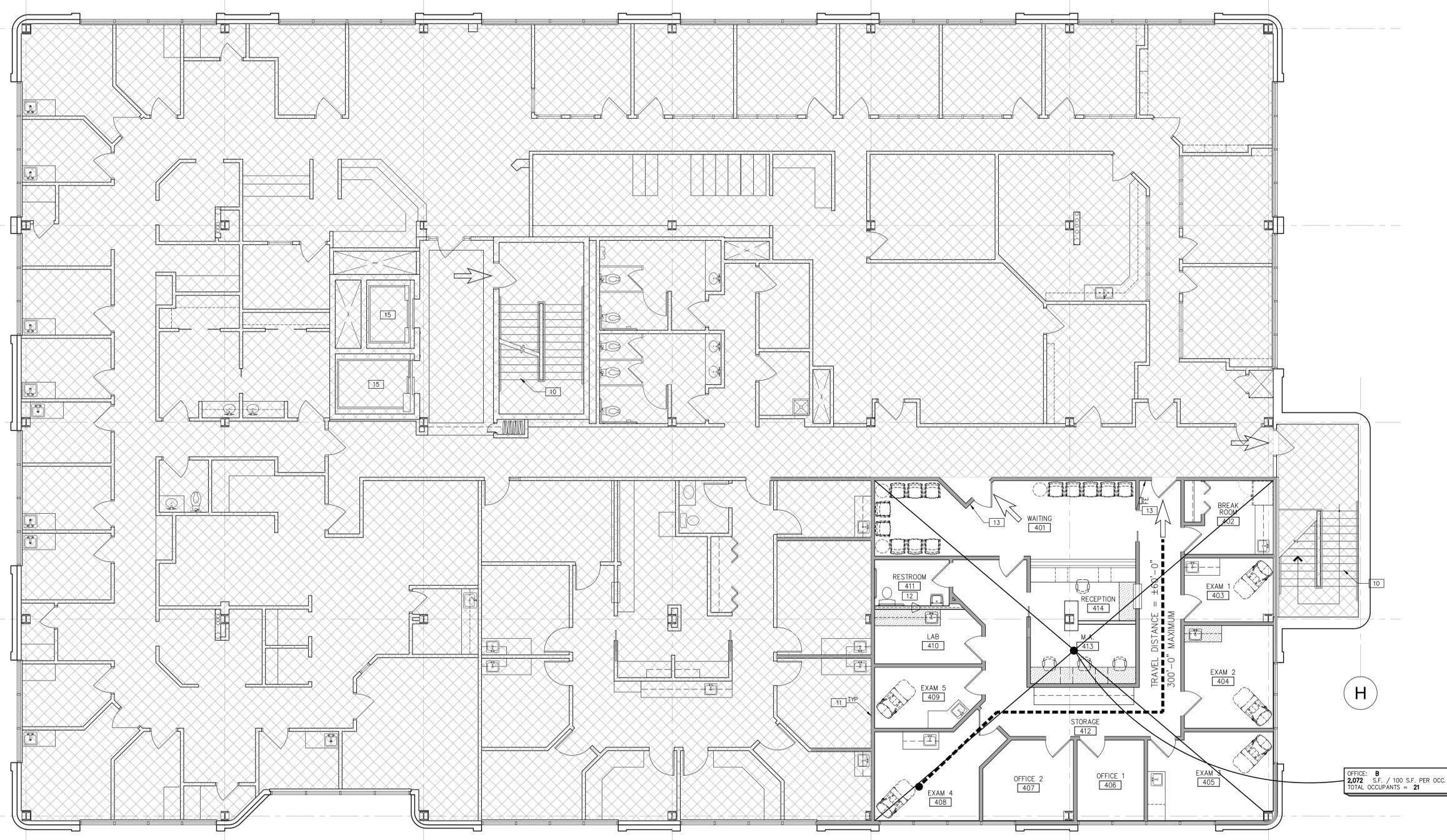
No new CO



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: iStocke
Date: Jan 14, 2016
2009 INTERNATIONAL CODES & 2014 NEC

Table with columns for DATE, REMARKS, and SHEET information. Includes a title sheet table and a sheet number table.

A0.1



OFFICE: B
2,072 S.F. / 100 S.F. PER OCC.
TOTAL OCCUPANTS = 21

Provide lever or other approved hardware
on all new or relocated doors.
2003 ANSI A117.1



OCCUPANCY AND EXIT PLAN
SCALE: 1/4"=1'-0" 1

T:\Jobs\15\CB Richard Ellis - Aurora\South Potomac\DEN15-6178-00_1411_Suite_440_Spec_Suite_Architectural\000\CD\6178_A11.dwg

OCCUPANCY EXIT PLAN NOTES

- 10 EXISTING STAIR TO REMAIN.
- 11 EXISTING TENANT SEPARATION WALL TO REMAIN.
- 12 NEW FULLY ACCESSIBLE RESTROOM FACILITY.
- 13 WALL-MOUNTED TACTILE "EXIT" SIGN AT LOCATIONS INDICATED. SEE X A0.3
- 14 NEW WALL-MOUNTED FIRE EXTINGUISHER, #3005 BY POTTER-ROEMER, 2A-10B; C, WITH WALL BRACKET.
- 15 EXISTING ELEVATOR TO REMAIN.

SEE SHEET A0.2 FOR GENERAL NOTES RELATING TO DOORS

TRAVEL DISTANCE TO EXITS

MAXIMUM TRAVEL DISTANCE TO EXITS (1016.2 SPRINKLERED BUILDING):
B/BUSINESS (OFFICE)..... 300 FEET MAX.



City of Aurora Building Division
Reviewed for Code Compliance:
Approved as Noted. *J Locke*
Date: Jan 14, 2016
2009 INTERNATIONAL CODES & 2014 NEC

LEGEND

- INDICATES AREA NOT IN CONTRACT (N.I.C.)
- OCCUPANCY EXIT LEGEND**
- INDICATES EXISTING EXIT
- UNOBSTRUCTED PATH OF TRAVEL
- CEILING-MOUNTED EXIT SIGN W/ BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING; SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED - SEE ELEC. DWGS.
- NOTE:** EXIT SIGNS SHALL BE SELF-LUMINOUS TYPE OR ELECTRICALLY ILLUMINATED & ENERGIZED FROM SEPARATE CIRCUITS; ONE OF WHICH SHALL BE FROM STORAGE BATTERIES OR AN ON-SITE GENERATOR.
- NOTE:** ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

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SPEC SUITE
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AURORA, CO 80012

OCCUPANCY AND EXIT PLAN	
DATE	REMARKS
12.14.15	ISSUE FOR PERMIT

PA - PM: E. ZABEL
DRAWN BY: C.A.T.
JOB NO.: DEN15-6178-00

SHEET
A1.1

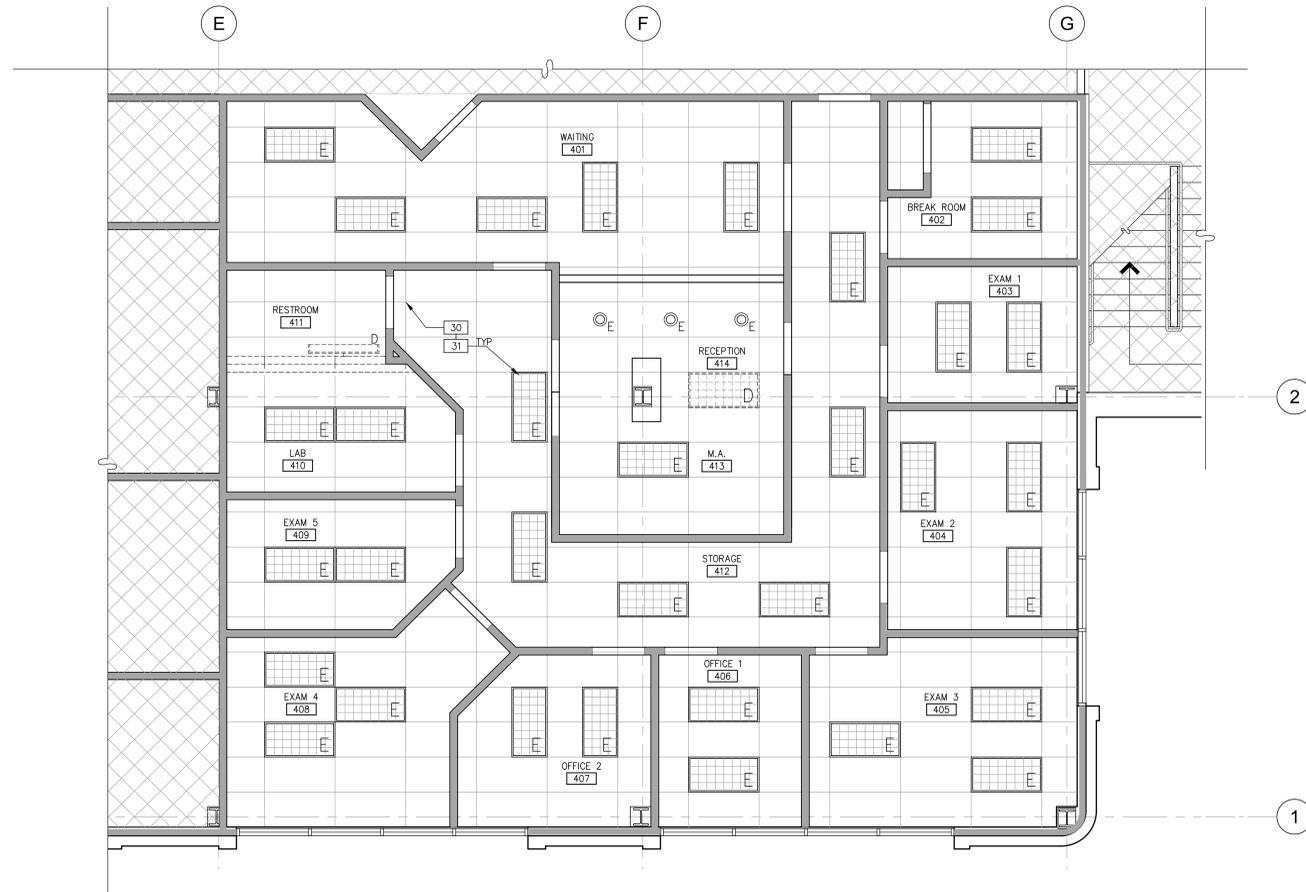
SEE SHEET A0.1 & A0.2 FOR GENERAL NOTES

DEMO FLOOR PLAN NOTES

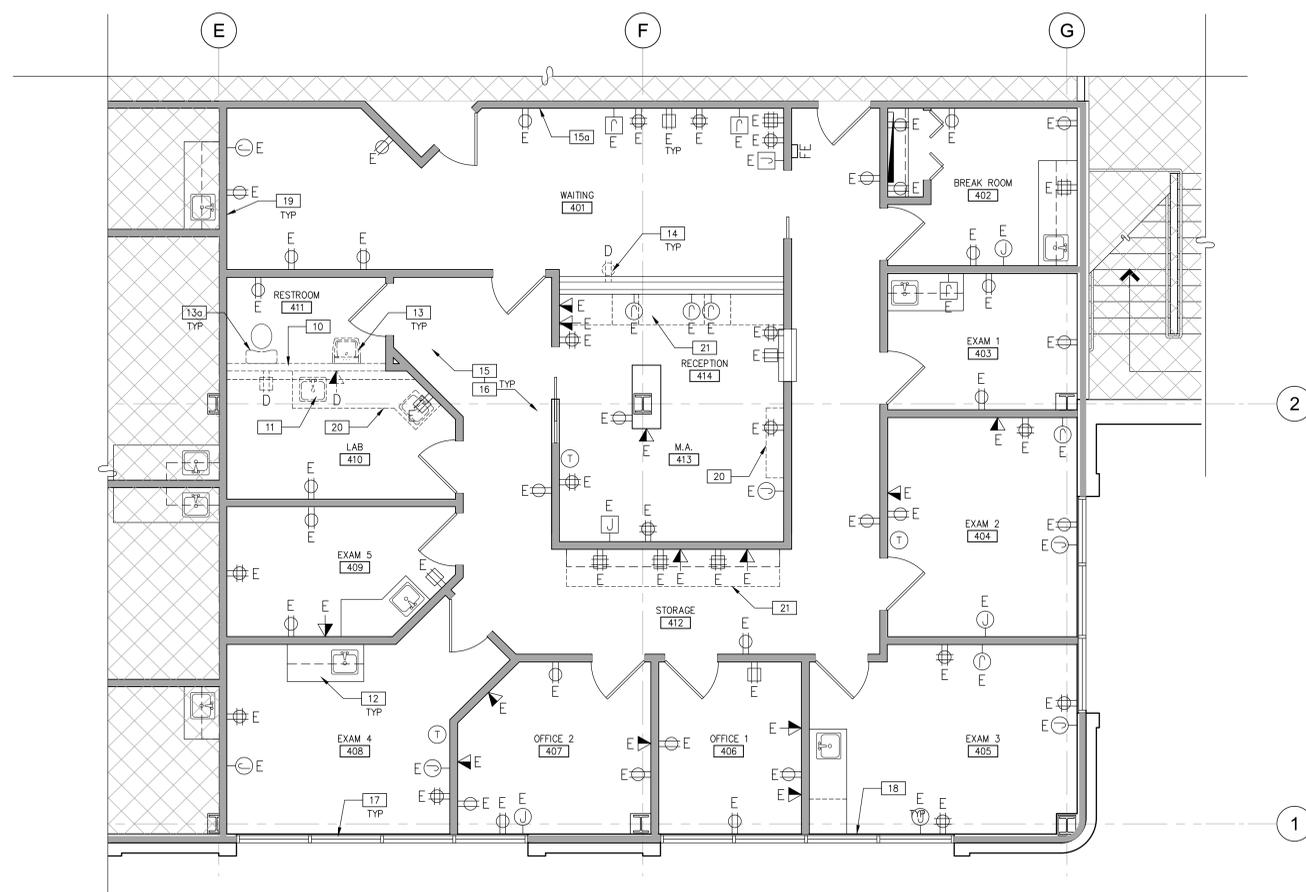
- 10 REMOVE PARTITIONS AND RELATED ELECTRICAL OUTLETS AS INDICATED. TERMINATE ELECTRICAL LINES BACK TO POINT OF ORIGIN.
- 11 REMOVE MILLWORK & SINK. PREP AREA FOR NEW BUILDING STANDARD UPPER & LOWER MILLWORK WITH NEW SINK.
- 12 EXISTING MILLWORK AND SINK TO REMAIN.
- 13 REMOVE PLUMBING FIXTURES AND PREP FOR NEW LAYOUT.
- 13a REMOVE GRAB BARS AND MIRROR AT RESTROOM. SAVE THEM FOR RELOCATION.
- 14 REMOVE POWER/SIGNAL OUTLETS AS SHOWN.
- 15 PREP ALL EXISTING PAINTED WALLS FOR NEW PAINT FINISH.
- 15a REMOVE WALLCOVERING ON THIS WALL. SKIM COAT AND PREPARE WALLS TO RECEIVE PAINTED FINISH.
- 16 REMOVE ALL FLOOR FINISHES THROUGHOUT. PREP FOR NEW FLOOR FINISHES PER FINISH PLAN.
- 17 EXISTING EXTERIOR WINDOW BLINDS TO REMAIN, UNLESS DAMAGED BEYOND REPAIR. CLEAN EXISTING BLINDS AS REQUIRED FOR "LIKE NEW" CONDITION. REPLACE ANY DAMAGED OR MISSING BLINDS TO MATCH EXISTING.
- 18 RECAULK AT ALL EXTERIOR GLASS
- 19 REMOVE EXISTING EXPOSED CONDUIT
- 20 REMOVE EXISTING MILLWORK.
- 21 REMOVE EXISTING COUNTERTOP ONLY AND PREP FOR NEW.

DEMO CEILING PLAN NOTES

- 30 EXISTING CEILING GRID & TILES TO REMAIN THROUGHOUT, U.O.N. PATCH & REPAIR GRID AS REQUIRED AND REPLACE DAMAGED TILES AS NEEDED.
- 31 EXISTING LIGHT FIXTURES TO REMAIN THROUGHOUT, U.O.N. CLEAN FIXTURES AS REQUIRED FOR "LIKE NEW" CONDITION. RE-LAMP AS REQUIRED. SAVE ALL DEMO'D FIXTURES FOR POSSIBLE RELOCATION.



DEMOLITION CEILING PLAN
SCALE: 1/4"=1'-0" 2



DEMOLITION FLOOR PLAN
SCALE: 1/4"=1'-0" 1



LEGENDS

WALL LEGEND

INDICATES AREA NOT IN CONTRACT (N.I.C.)

CEILING LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- SUSPENDED CEILING GRID & TILES TO REMAIN
- EXISTING 2'x4' FLUORESCENT LIGHT FIXTURE TO REMAIN
- EXISTING 2'x4' FLUORESCENT LIGHT FIXTURE TO BE REMOVED - SAVE FOR RELOCATION
- EXISTING CEILING-MOUNTED EXIT SIGN TO REMAIN
- EXISTING WALL-MOUNTED 4' FLUORESCENT LIGHT FIXTURE TO BE REMOVED. SAVE FOR RELOCATION.

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DEMOLITION FLOOR PLAN		DEMOLITION CEILING PLAN	
DATE	REMARKS	DATE	REMARKS
12.14.15	ISSUE FOR PERMIT		
	ISSUE FOR PERMIT		

PA - PM:	E. ZABEL
DRAWN BY:	C.A.T.
JOB NO.:	DEN15-6178-00

SHEET
AD.1

SEE SHEET A0.1 & A0.2 FOR GENERAL NOTES

REFLECTED CEILING NOTES

10 THE CEILING/LIGHTING IN THIS ROOM/AREA IS EXISTING TO REMAIN.

FINISH NOTES

- 20 ROOMS TO RECEIVE PAINT (P-1) AND RUBBER BASE (RB-1), U.O.N.
- 21 SEE ENLARGED RESTROOM ELEVATIONS ON SHEET A4.1 FOR WALL FINISHES.
- 22 SEE MILLWORK ELEVATIONS ON SHEET A4.1 FOR COUNTERTOP AND CABINERY FINISHES.
- 23 EXISTING MILLWORK AND SINK TO REMAIN, PATCH AND REPAIR CABINERY FOR "LIKE NEW" CONDITION.

LEGENDS

INDICATES AREA NOT IN CONTRACT (N.I.C.)

CEILING LEGEND

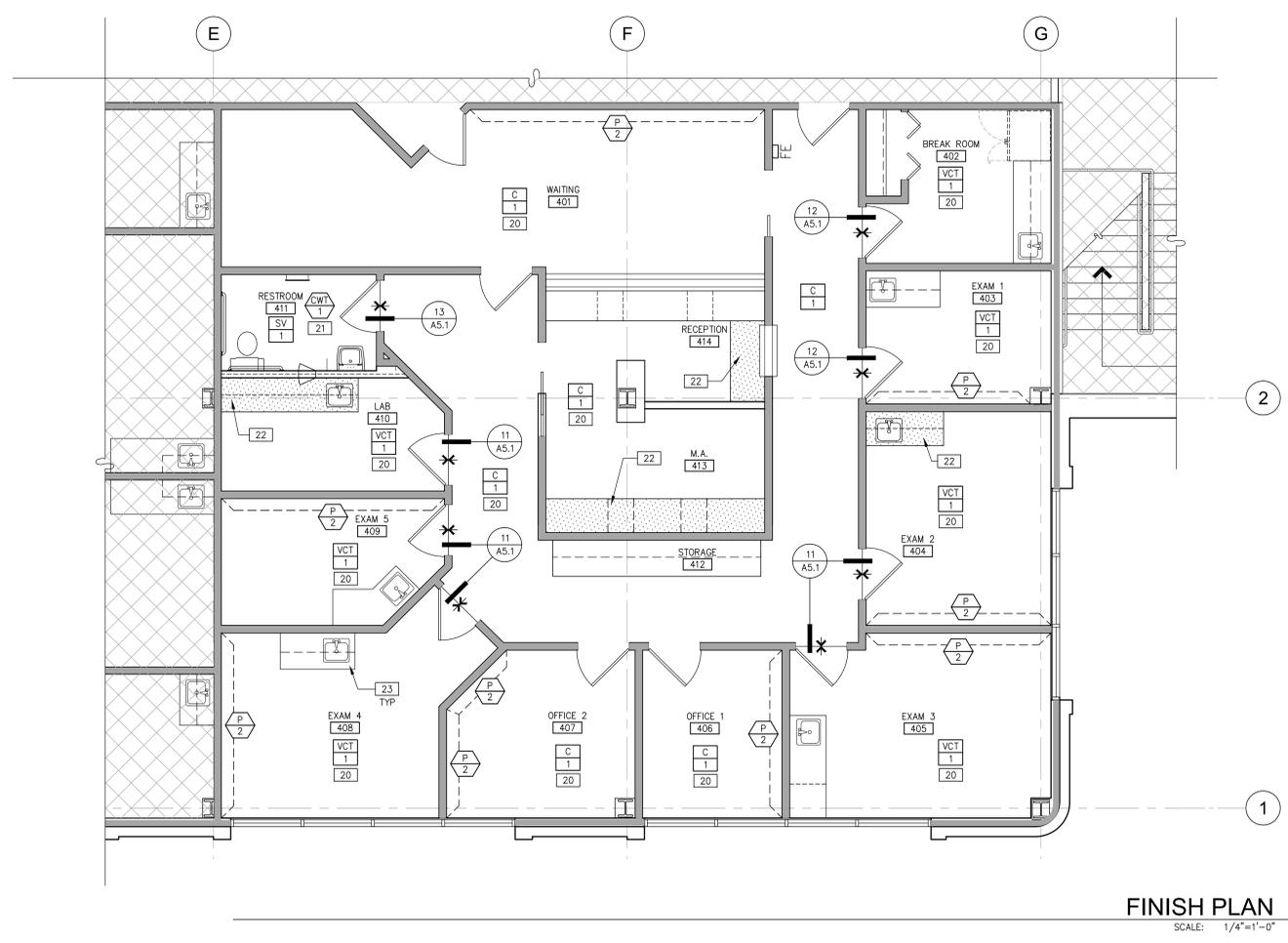
- EXISTING 2'x4' FLUORESCENT LIGHT FIXTURE TO REMAIN
- RELOCATED EXISTING 2'x4' FLUORESCENT LIGHT FIXTURE WITH PARABOLIC LENS & ELECTRIC BALLAST.
- EXISTING WALL-MOUNTED 4' WRAP-AROUND FLUORESCENT LIGHT FIXTURE TO REMAIN.

SYMBOLS LEGEND

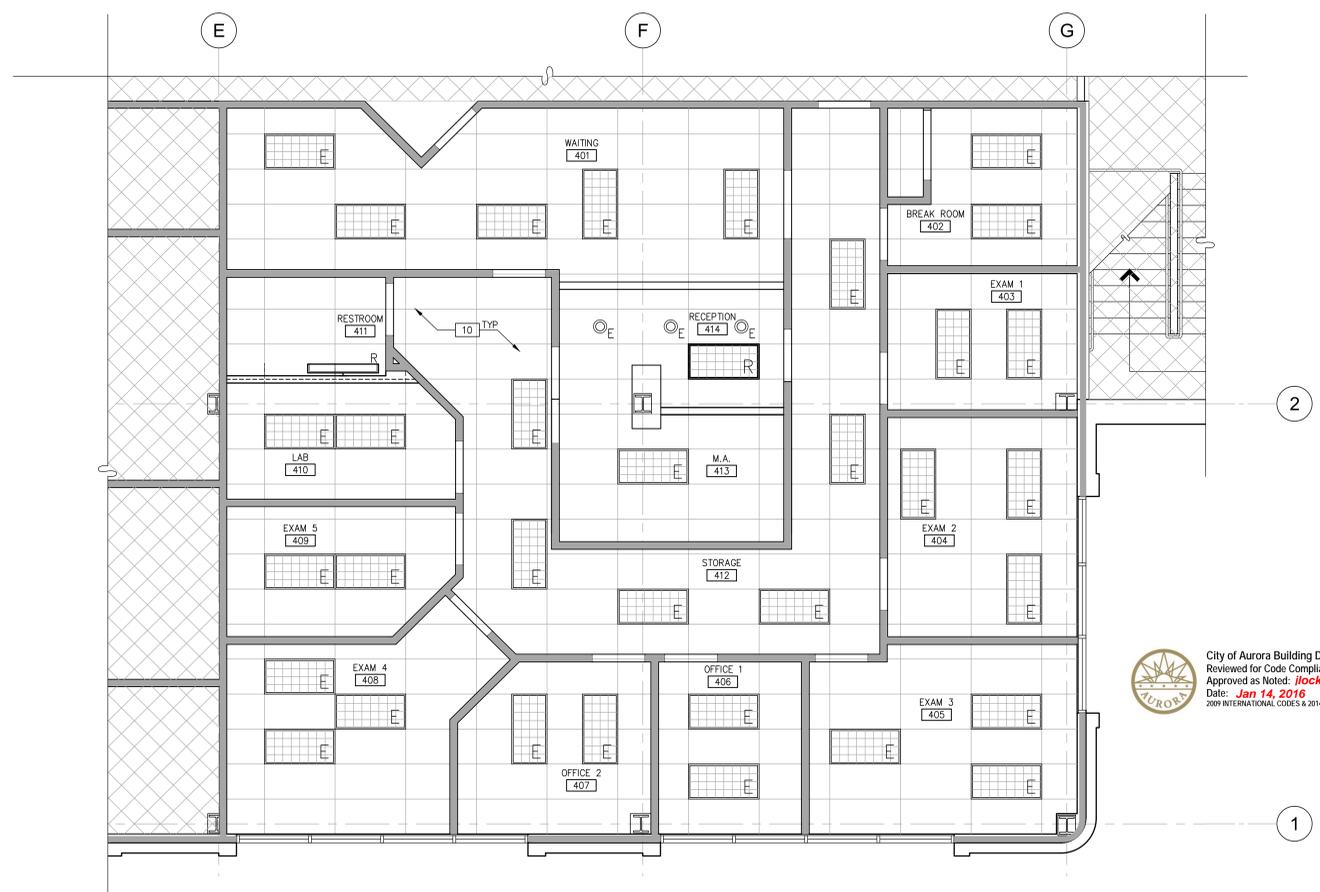
- INDICATES LINE OF FLOOR TRANSITION
- INDICATES LOCATION OF NON-TYPICAL WALL FINISH

FINISH LEGEND

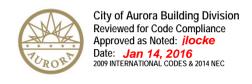
- WALL FINISHES**
- ITEM: PAINT - TYPICAL THROUGHOUT, U.O.N.
MFR: SHERWIN WILLIAMS
COLOR/NO: WORLDLY GRAY SW7043
FINISH: EGGSHELL
 - ITEM: PAINT - ACCENT
MFR: SHERWIN WILLIAMS
COLOR/NO: STONEBRAR SW7693
FINISH: EGGSHELL
- FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING PAINT SEE www.waremalcomb.com/ws/09900-001.pdf**
- ITEM: RUBBER BASE
MFR: JOHNSONITE
COLOR/NO: 48 GREY
SIZE: 4"
STYLE: STRAIGHT @ CARPET / COVED @ RESILIENT FLOORING
 - ITEM: PORCELAIN WALL TILE
DAL TILE
STYLE: FABRIQUE
COLOR/NO: CREAM LINEN P686
SIZE: 6"x24"
GROUT: LATICRETE - 90 LIGHT PEWTER
- FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING CERAMIC TILE SEE www.waremalcomb.com/ws/09310-001.pdf**
- FLOOR FINISHES**
- ITEM: CARPET - TYPICAL THROUGHOUT, U.O.N.
MFR: SHAW
STYLE: 5A205 SWITCH
COLOR/NO: 03530 GAZE
INSTALLATION: GLUE-DOWN
 - ITEM: VINYL COMPOSITION TILE - FIELD TILE
MFR: ARMSTRONG
COLOR/NO: STANDARD EXCELON
SIZE: 51908 PEWTER
 - ITEM: SHEET VINYL
MFR: FACTORIT
COLOR/NO: ORGANIC HUE - GRAVEL 530
NOTE: PROVIDE 6" HIGH CONTINUOUS FLASH COVE
- FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING RESILIENT FLOOR COVERING SEE www.waremalcomb.com/ws/09650-001.pdf**
- MISCELLANEOUS FINISHES**
- ITEM: PLASTIC LAMINATE - HORIZONTAL SURFACES
MFR: MATCH EXISTING
COLOR/NO: MATCH EXISTING
 - ITEM: PLASTIC LAMINATE - VERTICAL SURFACES
MFR: MATCH EXISTING
COLOR/NO: MATCH EXISTING



FINISH PLAN
SCALE: 1/4"=1'-0" 2



REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0" 1



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REFLECTED CEILING PLAN AND FINISH PLAN

DATE	ISSUE FOR PERMIT	REMARKS
12.14.15	ISSUE FOR PERMIT	

PA - PM: E. ZABEL
DRAWN BY: C.A.T.
JOB NO.: DEN15-6178-00

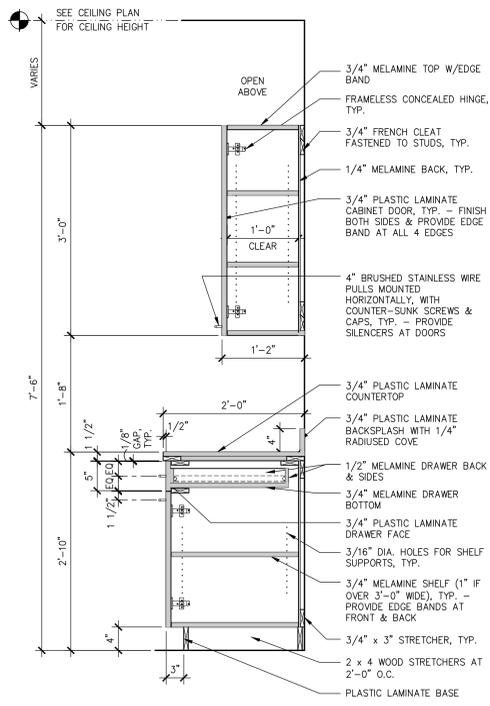
SHEET
A3.1

MILLWORK CABINETRY NOTES:

SEE SHEET A0.1 - A0.2 FOR GENERAL NOTES

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING INTERIOR ARCHITECTURAL WOODWORK SEE www.waremalcomb.com/ws/06402-001.pdf

- ALL MILLWORK SHALL CONFORM TO THE CURRENT WOODWORK INSTITUTE STANDARDS [CUSTOM GRADE / PREMIUM GRADE] ALL CABINETRY SHALL CONFORM TO THE CURRENT WOODWORK INSTITUTE STANDARDS [CUSTOM GRADE / PREMIUM GRADE]
- SHOP DRAWINGS FOR ALL CABINETRY AND MILLWORK ARE REQUIRED TO BE SUBMITTED TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
- ALL NOTES AND DETAILS FOR DETAIL 3/- ARE TYPICAL FOR THIS ENTIRE PAGE OF DETAILS, UNLESS OTHERWISE NOTED.
- SEE ELEVATIONS FOR EXTERIOR FINISHES SPECIFICATIONS.
- DOOR PULLS SHALL BE: 4" SATIN CHROMIUM WIRE PULLS.
- COUNTERTOPS SHALL HAVE BACK-SPLASHES ONLY WHERE SHOWN ON ELEVATION.
- CABINET INTERIORS SHALL BE WHITE MELAMINE, INCLUDING EDGES.
- INTERIOR SHELVING SHALL BE COVERED IN WHITE MELAMINE.
- DOORS SHALL BE OF FLUSH OVERLAY CONSTRUCTION.
- DOORS EDGES SHALL BE EDGE BANDED TO MATCH THE FRONTS.
- INTERIOR OF DOOR SHALL BE FACED WITH SAME MATERIAL AS THE FRONTS.
- EACH CABINET DOOR TO BE NO LESS THAN 12" WIDE AND NO GREATER THAN 18" WIDE U.O.N.
- (*) VERIFY ALL EQUIPMENT CLEARANCES.

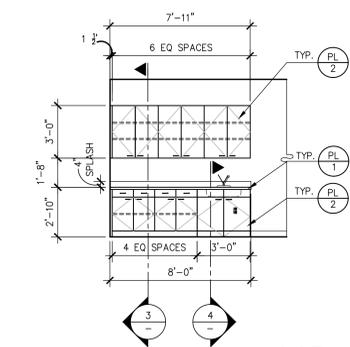


UPPER LOWER CABINETS

SCALE: 1"=1'-0"

IMWCB-Up_low_draws_splash-04

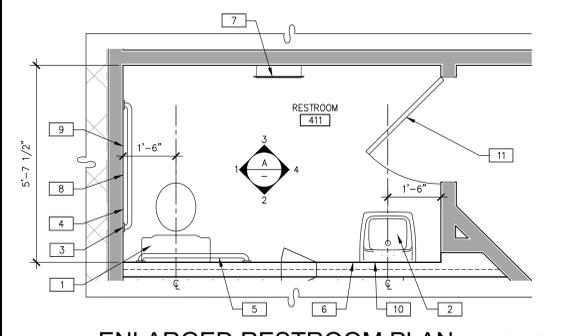
3



LAB #410

SCALE: 1/4"=1'-0"

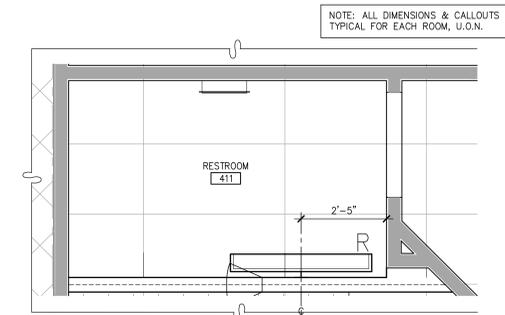
B



ENLARGED RESTROOM PLAN

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

1

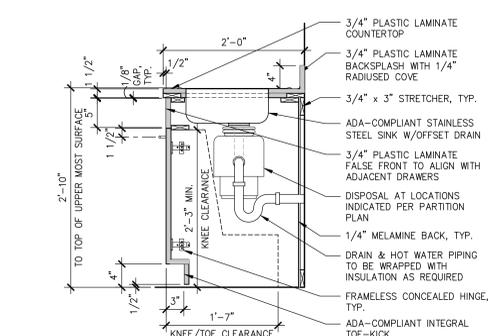


ENLARGED RR CEILING PLAN

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

2

- SEE SHEET A0.1 - A0.2 FOR GENERAL NOTES
SEE SHEET A0.3 FOR RESTROOM ACCESSIBILITY NOTES - DETAILS
- RESTROOM NOTES**
- WATER CLOSET - FULLY ACCESSIBLE, FLOOR-MOUNTED, TANK TYPE. INSTALL AT ACCESSIBLE HEIGHT. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
 - LAVATORY - FULLY ACCESSIBLE, WALL-HUNG, SELF-RIMMING, PORCELAIN SINK WITH WRIST BLADE FAUCET CONTROLS. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS)
 - REUSE 42" GRAB BAR - TOILET COMPARTMENT SIDE GRAB BAR.
 - 18" GRAB BAR - TOILET COMPARTMENT VERTICAL SIDE GRAB BAR - BOBRICK B-6806x18, 18" X 1-1/2" DIAMETER GRAB-BAR WITH - BOBRICK B-2583 CONCEALED ANCHOR PLATES.
 - REUSE 36" GRAB BAR - TOILET COMPARTMENT REAR GRAB BAR.
 - SOAP DISPENSER - WALL-MOUNTED - BOBRICK B-2112 (OR EQUAL).
 - PAPER TOWEL DISPENSER, SURFACE MOUNTED - BOBRICK B-262 (OR EQUAL).
 - DOUBLE-ROLL TOILET TISSUE DISPENSER - SURFACE-MOUNTED, BOBRICK B-2740.
 - SANITARY NAPKIN DISPOSAL - SURFACE-MOUNTED, BOBRICK B-254.
 - REUSE MIRROR AT SINK.
 - ADA UNISEX WALL-MOUNTED SIGNAGE. SEE DETAIL 14 ON SHEET A0.3.

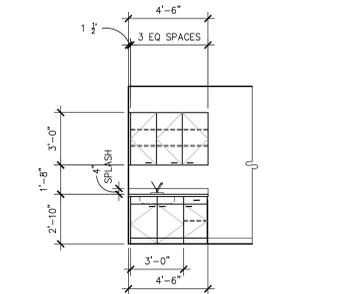


LOWER CABINET AT SINK

SCALE: 1"=1'-0"

IMWCB-Low_sink_splash-01

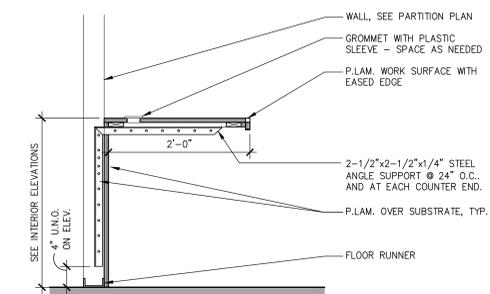
4



EXAM 2 #404

SCALE: 1/4"=1'-0"

C

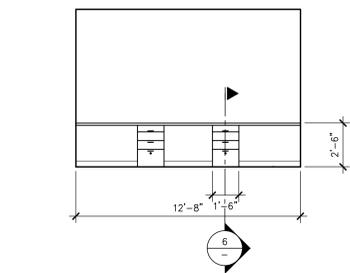


COUNTERTOP SUPPORT

SCALE: 1"=1'-0"

IMWJ_Counter-01

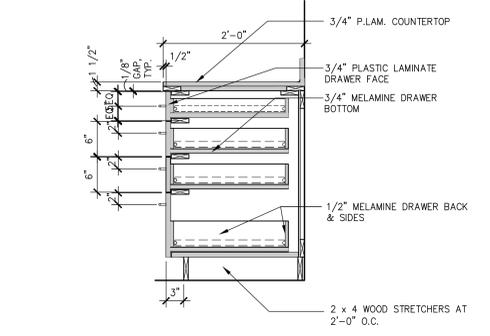
5



M.A. #413

SCALE: 1/4"=1'-0"

D

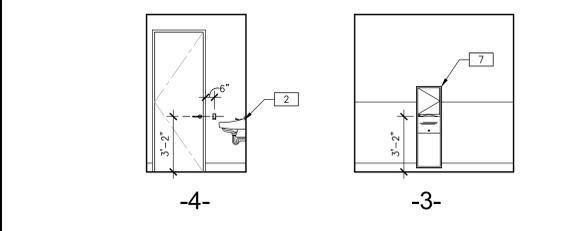


LOWER CABINETS WITH DRAWERS

SCALE: 1"=1'-0"

IMWCB-Low_draws_splash-04

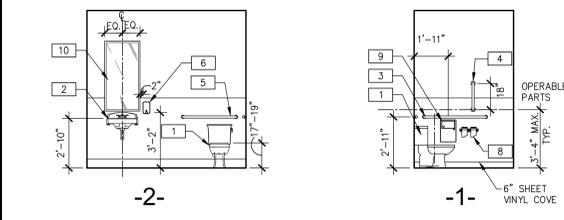
6



RESTROOM ELEVATIONS

SCALE: 1/4"=1'-0"

A



-2-

-1-

T:\Jobs\15\CB Richard Ellis - Aurora\South Potomac\DEN15-6178-00_1411_Suite_440_Spec_Suite\Architecture\Coord\6178_A41.dwg

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ENLARGED RR PLAN ELE AND MILLWORK ELE DETAILS

DATE	ISSUE FOR	REMARKS
12.14.15	ISSUE FOR PERMIT	

PA - PM: E. ZABEL
DRAWN BY: C.A.T
JOB NO: DEN15-6178-00



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *ilocke*
Date: Jan 14, 2016
2009 INTERNATIONAL CODES & 2014 NEC

SHEET
A4.1

T:\Jobs\15\CB Richard Ellis - Aurora\South Potomac\DEN15-6178-00_1411_Suite_440_Spec_Suite\Architectural\Code\CD\6178_A51\6178_A51.dwg

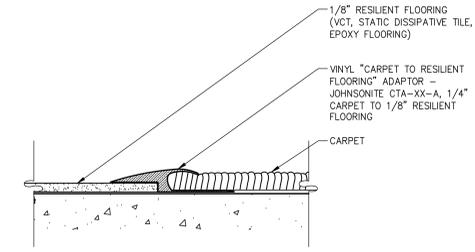
21

1

22

17

CARPET TO RESILIENT FLOORING
SCALE: FULL IFLTR-Carpet_Resilient_Floor_01



12

11

MEMBER DEPTH: (EXAMPLE: 6" = 00 X 1/100 INCHES) ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE DIMENSION.

FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.625" = 1 1/2 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

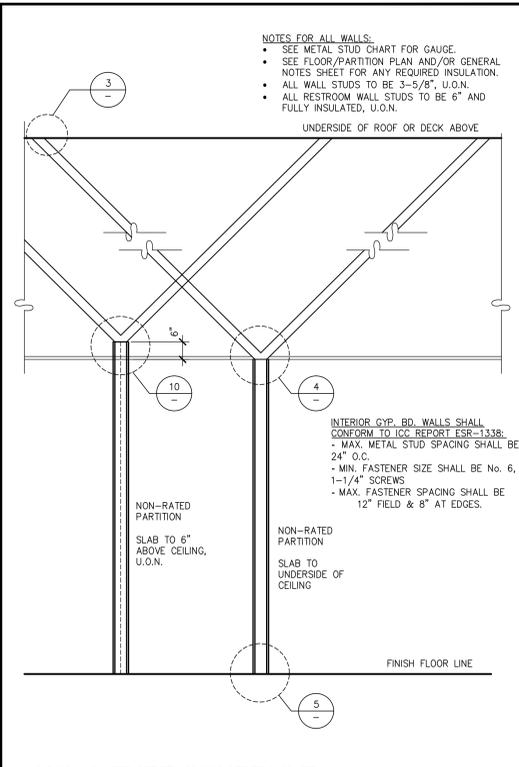
MATERIAL THICKNESS: (EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL = 1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

INTERIOR NON-STRUCTURAL NON-COMPOSITE:

S: STUD MEMBER	SPACING IN. O.C.	5 PSF L240	S: STUD MEMBER	SPACING IN. O.C.	5 PSF L240
250S137-33	12"	13'-10"	400S137-54 (50 KSI)	12"	23'-2"
250S137-33	16"	12'-2"	400S137-54 (50 KSI)	16"	21'-1"
250S137-33	24"	11'-0"	400S137-54 (50 KSI)	24"	18'-5"
250S137-43	12"	15'-0"	400S137-68 (50 KSI)	12"	24'-9"
250S137-43	16"	13'-8"	400S137-68 (50 KSI)	16"	22'-6"
250S137-43	24"	11'-11"	400S137-68 (50 KSI)	24"	19'-8"
250S137-54 (50 KSI)	12"	16'-1"	400S137-97 (50 KSI)	12"	27'-3"
250S137-54 (50 KSI)	16"	14'-7"	400S137-97 (50 KSI)	16"	24'-9"
250S137-54 (50 KSI)	24"	12'-8"	400S137-97 (50 KSI)	24"	21'-8"
600S137-33	12"	18'-5"	600S137-33	12"	27'-3"
600S137-33	16"	16'-9"	600S137-33	16"	24'-9"
600S137-33	24"	14'-7"	600S137-43	24"	21'-8"
600S137-43	12"	20'-0"	600S137-43	12"	29'-10"
600S137-43	16"	18'-2"	600S137-43	16"	27'-2"
600S137-43	24"	15'-11"	600S137-43	24"	23'-8"
600S137-54 (50 KSI)	12"	21'-5"	600S137-54 (50 KSI)	12"	32'-0"
600S137-54 (50 KSI)	16"	19'-6"	600S137-54 (50 KSI)	16"	29'-1"
600S137-54 (50 KSI)	24"	17'-0"	600S137-54 (50 KSI)	24"	25'-5"
600S137-68 (50 KSI)	12"	22'-11"	600S137-68 (50 KSI)	12"	34'-4"
600S137-68 (50 KSI)	16"	20'-10"	600S137-68 (50 KSI)	16"	31'-2"
600S137-68 (50 KSI)	24"	18'-2"	600S137-68 (50 KSI)	24"	27'-3"
600S137-97 (50 KSI)	12"	25'-3"	600S137-97 (50 KSI)	12"	38'-0"
600S137-97 (50 KSI)	16"	22'-11"	600S137-97 (50 KSI)	16"	34'-6"
600S137-97 (50 KSI)	24"	20'-0"	600S137-97 (50 KSI)	24"	30'-2"
800S137-33	12"	19'-11"	800S137-43	12"	37'-6"
800S137-33	16"	18'-1"	800S137-43	16"	34'-1"
800S137-33	24"	15'-9"	800S137-43	24"	29'-9"
800S137-43	12"	21'-8"	800S137-54 (50 KSI)	12"	40'-4"
800S137-43	16"	19'-8"	800S137-54 (50 KSI)	16"	36'-8"
800S137-43	24"	17'-2"	800S137-54 (50 KSI)	24"	32'-0"
			800S137-68 (50 KSI)	12"	43'-6"
			800S137-68 (50 KSI)	16"	39'-6"
			800S137-68 (50 KSI)	24"	34'-6"

NOTE: ALL STUD INFORMATION IS BASED ON: CEMCO ICC ES ESR-3016

LIMITING WALL HEIGHT TABLE-L 240
SCALE: NONE IWAM-Height_Table-L_240-CEMCO

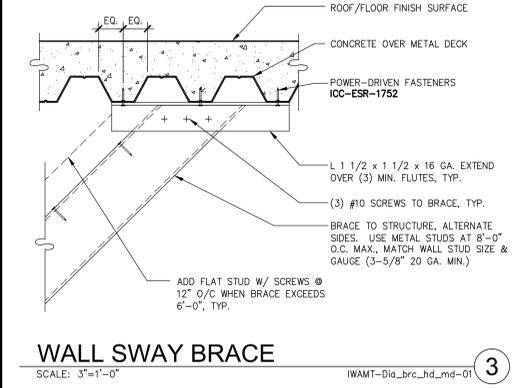
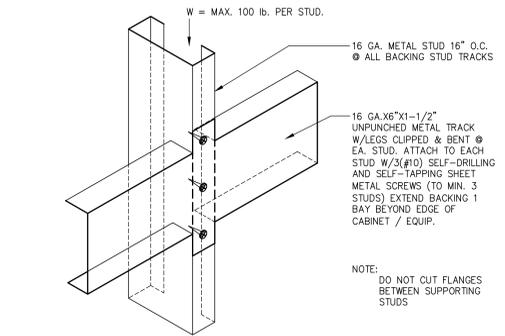


WALL TYPE SCHEDULE
SCALE: 1/2"=1'-0" IWAMT-Wall_Type_Schedule-01

23

18

BACKING DETAIL FOR MISC. EQUIP.
SCALE: N.T.S. IWAM-Wall_Equip_Backing-01

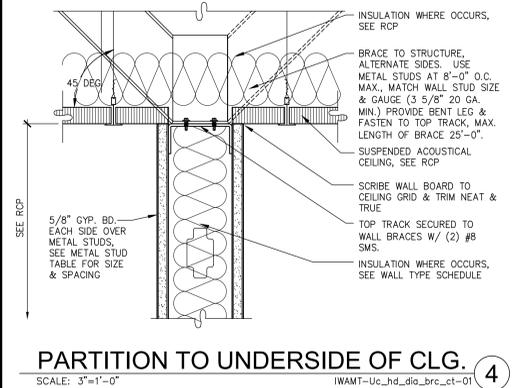
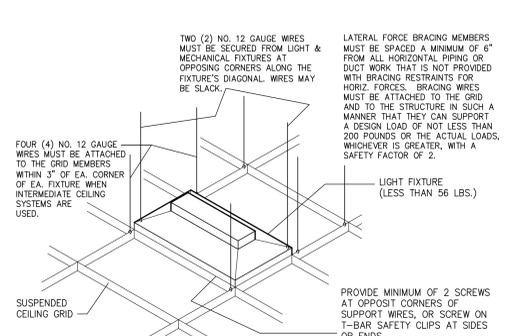


WALL SWAY BRACE
SCALE: 3/4"=1'-0" IWAMT-Dia_brc_hd_md-01

24

1

LIGHT FIXTURE SUSPENDED CLNG
SCALE: N.T.S. ICEAC-Susp_Light_Intermediate-01

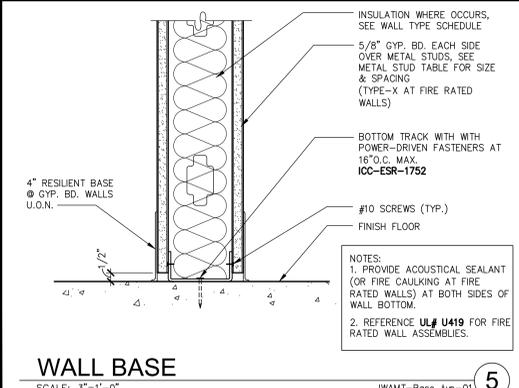
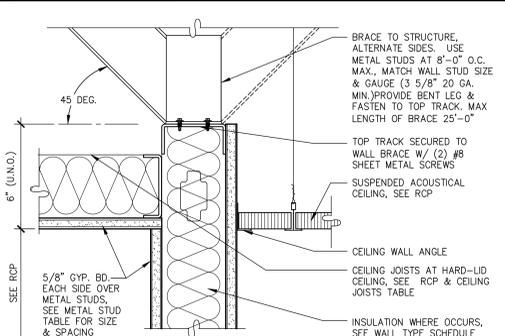


PARTITION TO UNDERSIDE OF CLG.
SCALE: 3/4"=1'-0" IWAMT-Uc_hd_dia_brc_ct-01

25

20

PARTITION TO ABOVE CEILING
SCALE: 3/4"=1'-0" IWAMT-6ac_hd_dia_brc_ct_hn-01



WALL BASE
SCALE: 3/4"=1'-0" IWAMT-Base_Typ-01



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MALCOLM WARE
REGISTERED ARCHITECT
NO. 306199
LICENSED ARCHITECT

12-14-15

SPEC SUITE
1411 S. POTOMAC ST, SUITE 440
AURORA, CO 80012

DETAILS

DATE	ISSUE FOR PERMIT	REMARKS
12.14.15		

PA - PM: E. ZABEL
DRAWN BY: C.A.T.
JOB NO.: DEN15-6178-00

SHEET
A5.1

RSN: 1074571
Permit #: 15-1041852-LT

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF WARE MALCOLM AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH WARE MALCOLM. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF WARE MALCOLM PRIOR TO THE COMMENCEMENT OF ANY WORK.

GENERAL PROJECT NOTES

- NOTE: SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE, OPERATIONAL AND PROPERLY FUNCTIONING ELECTRICAL SYSTEM...

ELECTRICAL LEGEND



Feeder Schedule

Table with columns for Ampacity (A), Voltage (V), and Conductor Size (C). Lists various feeder specifications such as 3000W @ 500kcmil, 2000W @ 400kcmil, etc.

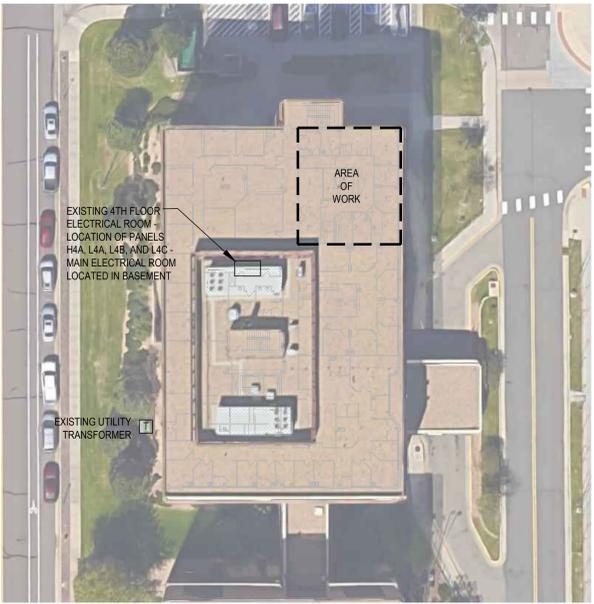
This table indicates minimum conductor size for feeders of the ampacity indicated where AW indicates for Al-Ampacity and W indicates for W. AW indicates no ground. All conductors shall be Copper unless noted as Aluminum 'Al'.

Service Ground Table with columns for Ampacity (A), Equipment Ground (EG), and Conductor Size (C). Lists ground requirements for various ampacities.

Where discrepancies occur between the Feeder Schedule and the Grounding Tables, the larger conductor shall be used unless otherwise permitted by the NEC.

Transformer Schedule with columns for Primary OCP (kVA), Secondary OCP (kVA), and Conductor Size (C). Lists transformer specifications.

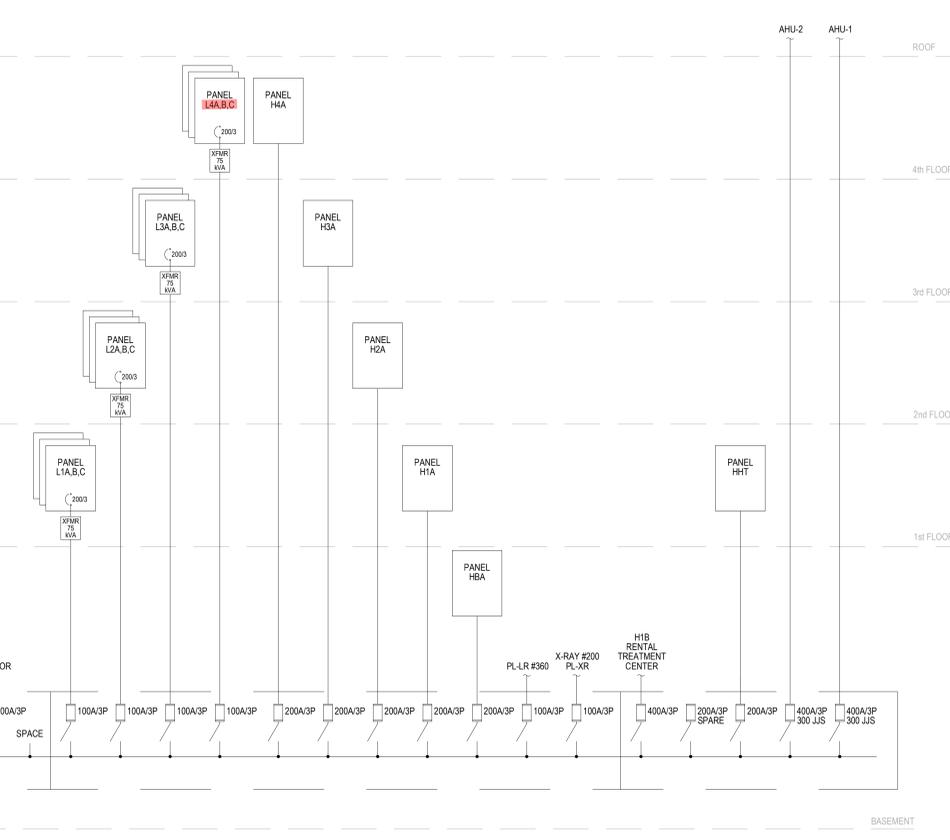
Primary shall be 3-Wire and Secondary shall be 4-Wire unless noted otherwise. All transformers 45kVA and smaller shall be suspended and all transformers larger than 45kVA shall be floor mounted unless noted otherwise.



GENERAL NOTES: 1. PLAN SHOWN FOR REFERENCE ONLY. E.C. SHALL FIELD VERIFY EXISTING CONDITIONS.

FAULT CURRENT CALCULATION TABLE showing available fault current (Ia) for various locations (2500A Man, Panel HA, Panel LA,B,C) at different voltages (480V, 240V).

NOTES: 1. All Calculations use Busman 'Point-To-Point' Method. 2. Variables: L=Feeder Length (L), C=Conductor 'C' Value, M=1 + (1+Rn), F=Ia/(F+I) x M.



Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation, per 2009 IBC 105.4.

ONE LINE DIAGRAM

- SCALE: NTS. ONE LINE DIAGRAM GENERAL NOTES: 1. E.C. TO FIELD VERIFY EXISTING CONDITIONS. 2. ALL EQUIPMENT IS EXISTING - NO NEW WORK.



City of Aurora Building Division Reviewed for Code Compliance Approved as Noted: James Conner Date: Jan 14, 2016 2009 INTERNATIONAL CODES & 2014 NEC

RSN: 1074571 Permit #: 15-1041852-LT

WARE MALCOLM Leading Design for Commercial Real Estate. Architecture, planning, engineering, interiors, site development.

Front Range Electrical Engineering 3318 S. Kalamazoo Blvd. Suite 201A, Aurora, CO 80014. Phone: 303.955.0548

Professional Engineer Seal for James Conner, License No. 18205, State of Colorado.

SPEC SUITE 1411 S. POTOMAC ST., SUITE 440 AURORA, CO

ONE LINE, NOTES AND SCHEDULES table with columns for DATE, REMARKS, and SCHEDULES.

PE: CLF, DRAWN BY: DMK, JOB NO.: 15-292

SHEET E0.0

EQUIPMENT SCHEDULE											
Key	Equipment	Equipment Load	Unit	Ø	Branch Circuit	Conduit	Disconnect	Panel/Circuit	November 3, 2015		
		KW	HP	Amps			Switch	Fuse			Comment
EXHAUST FANS	0.0004	0.3	277	1	2412.4125	3/4"	Sto	NA			

Notes:
 1. Field verify final location and electrical requirements of all equipment with provider prior to any work.
 2. Provide fire voltage controls and wiring as required for proper operation. Field verify control requirements with equipment provider.
 3. Provide HACR breakers for all dedicated circuits serving equipment and provide local disconnecting means in accordance with NEC 430 Part IX.
 4. Verify integral thermal/overload protection for fractional horsepower motors. Provide separate overload device where required in accordance with NEC 430 Part III.

PANEL SCHEDULE: H4A												
November 4, 2015												
BUS RATING: 200 Amperes 30 4-WIRE			VOLTAGE L-L: 480			VOLTAGE L-G: 277			S.C.R.M.S. RATING (AC): 25,000			
MAIN C.B.: 200A/3P or M.L.O. 200A			MOUNTING: Flush			COMMENTS: Existing Panelboard						
NO.	AMPS	POLE	LOAD (VA)	NEC Demand	LOAD DESCRIPTION	Phase	LOAD DESCRIPTION	NEC Demand	LOAD (VA)	POLE	AMPS	
1	20	1	695	1.25	Hall Lighting	A	UH-1	1.00	3324	1	30	2
2	20	1	700	1.25	Exterior Lighting	B	FVAV-1	1.00	6648	1	60	4
3	20	1	725	1.25	Busess Space	C	FVAV-2	1.00	6648	1	60	6
4	20	1	725	1.25	Floor LTS STE 400	A	FVAV-7	1.00	6648	1	60	8
5	20	1	750	1.25	Floor LTS STE 400	B	FVAV-8	1.00	6648	1	60	10
6	20	1	770	1.25	Floor LTS STE 400	C	FVAV-8	1.00	6648	1	60	12
7	20	1	730	1.25	Floor LTS STE 400	A	FVAV-5	1.00	6648	1	60	14
8	20	1	725	1.25	Floor LTS STE 400	B	UH-2	1.00	3324	1	30	16
9	20	1	715	1.25	Existing Load	C	FVAV-4	1.00	6648	1	60	18
10	20	1	735	1.25	Floor LTS STE 400	A	FVAV-3	1.00	6648	1	60	20
11	20	1	745	1.25	Floor LTS STE 400	B	Water Heater	1.00	3324	1	30	22
12	20	1	735	1.25	Floor LTS STE 400	A	Busess Space	1.00	6648	1	60	24
13	20	1	735	1.25	Floor LTS STE 400	A	Busess Space	1.00	6648	1	60	26
14	20	1	745	1.25	Existing Load	B	Busess Space	1.00	6648	1	60	28
15	20	1	745	1.25	Existing Load	A	Busess Space	1.00	6648	1	60	30
16	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	32
17	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	34
18	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	36
19	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	38
20	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	40
21	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	42
22	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	44
23	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	46
24	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	48
25	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	50
26	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	52
27	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	54
28	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	56
29	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	58
30	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	60
31	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	62
32	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	64
33	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	66
34	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	68
35	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	70
36	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	72
37	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	74
38	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	76
39	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	78
40	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	80
41	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	82
42	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	84
43	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	86
44	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	88
45	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	90
46	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	92
47	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	94
48	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	96
49	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	98
50	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	100
51	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	102
52	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	104
53	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	106
54	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	108
55	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	110
56	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	112
57	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	114
58	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	116
59	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	118
60	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	120
61	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	122
62	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	124
63	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	126
64	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	128
65	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	130
66	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	132
67	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	134
68	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	136
69	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	138
70	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	140
71	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	142
72	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	144
73	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	146
74	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	148
75	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	150
76	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	152
77	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	154
78	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	156
79	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	158
80	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	160
81	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	162
82	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	164
83	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	166
84	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	168
85	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	170
86	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	172
87	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	174
88	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	176
89	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	178
90	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	180
91	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	182
92	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	184
93	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	186
94	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	188
95	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	190
96	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	192
97	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	194
98	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	196
99	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	198
100	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	200
101	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	202
102	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	204
103	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	206
104	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	208
105	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	210
106	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	212
107	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	214
108	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	216
109	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	218
110	20	1	360	1.00	Busess Space	C	Busess Space	1.00	6648	1	60	220
111	20	1	360	1.00	Busess Space	A	Busess Space	1.00	6648	1	60	222
112	20	1	360	1.00	Busess Space	B	Busess Space	1.00	6648	1	60	224
113	20	1	360	1.00	Busess Space	C</						

MECHANICAL SPECIFICATIONS

SUPPLY AND RETURN AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER SMACNA DUCT CONSTRUCTION STANDARDS. RETURN AIR DUCTWORK AND SUPPLY AIR DUCTWORK SHALL BE CONSTRUCTED FOR 1" W.C. STATIC PRESSURE DOWNSTREAM OF VAV BOXES/FAN COILS AND 3" W.C. UPSTREAM OF VAV BOXES. SPIRAL LOCK-FORMED ROUND DUCT MAY BE UTILIZED WHERE SPACE ALLOWS. TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIR-TIGHT WITH MASTIC. RADIUS ELBOWS (R/D=1.5) OR MITERED ELBOWS WITH SINGLE THICKNESS TURNING VANES SHALL BE UTILIZED. TURNING VANES SHALL BE SUPPORTED AT INTERVALS OF 36" MAXIMUM. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT AND SHALL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS FOR STANDARD SPACING.

INSULATED, FACTORY FABRICATED, FLEXIBLE DUCTWORK MAY BE UTILIZED AT RUNOUTS TO AIR DIFFUSERS. FLEXIBLE DUCTWORK SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1.5" FIBERGLASS INSULATION AND INTERIOR VINYL LINER WITH SPRING STEEL WIRE HELIX. FIBERGLASS INSULATION SHALL HAVE A MAXIMUM CONDUCTIVITY, K-VALUE, OF 0.25 AT 75F. VINYL LINER SHALL NOT BE PERFORATED. FLEXIBLE DUCT ASSEMBLY SHALL HAVE A FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. FLEXIBLE DUCT TO FLEXIBLE DUCT CONNECTIONS SHALL BE MADE WITH FACTORY FABRICATED STEEL COLLARS. FLEXIBLE DUCT SHALL BE SECURED TO RIGID DUCTWORK AND AIR DEVICES WITH SCREWS AND DRAWBANDS. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5' AND SHALL NOT BE COMPRESSED. FLEXIBLE DUCTWORK SHALL NOT BE USED FOR ELBOWS. FLEXIBLE DUCT SHALL NOT BE USED ABOVE INACCESSIBLE CEILINGS. FLEXIBLE DUCT SHALL NOT PASS THROUGH WALLS.

DUCT HANGERS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. DUCTS SHALL BE SUPPORTED AND CONNECTED TO THE STRUCTURE PER SMACNA DUCT CONSTRUCTION STANDARDS. HANGERS AND SUPPORTS FOR GREASE DUCT SHALL BE OF NONCOMBUSTIBLE MATERIALS. FLEXIBLE DUCTS SHALL BE SUPPORTED WITH GALVANIZED STRAPS.

MANUAL VOLUME DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE INDICATED AT SUPPLY AIR DUCT RUNOUTS TO AIR DIFFUSERS AND GRILLES AS NEAR AS POSSIBLE TO THE TRUNK DUCT. MANUAL VOLUME DAMPERS FOR RECTANGULAR DUCT SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL AND BE THE OPPOSED BLADE TYPE. MANUAL VOLUME DAMPERS FOR ROUND DUCT SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL AND BE THE SINGLE BLADE TYPE. DAMPER BEARINGS SHALL BE NYLON. STAND-OFFS TO OUTSIDE OF INSULATION SHALL BE PROVIDED FOR MANUAL VOLUME DAMPERS IN INSULATED DUCT. LOCKING AND INDICATING QUADRANTS SHALL BE PROVIDED WHERE DAMPER IS ACCESSIBLE.

GENERAL NOTES

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WORK INDICATED WITH ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION.
- PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC. ITEMS NEEDED TO PROVIDE COMPLETELY OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS FOR ALL PROPOSED EQUIPMENT AND MATERIALS TO BE UTILIZED.
- ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- DUCT SIZES INDICATED ARE OUTSIDE DIMENSIONS, BRANCH RUN-OUT DUCTS TO DIFFUSERS AND GRILLES TO BE SAME SIZE AS DIFFUSER OR GRILLE CONNECTION SIZE UNLESS OTHERWISE NOTED.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90° ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAWBANDS PER SMACNA STANDARDS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, DIFFUSERS, AND ACCESS DOORS IN CEILING. SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS WHERE APPLICABLE. SUBMIT SHOP DWG. FOR APPROVAL PRIOR TO BEGINNING WORK.
- AT THE COMPLETION OF WORK, PROVIDE TESTING AND BALANCING SERVICES FOR MECHANICAL SYSTEM. SUBMIT WRITTEN REPORT TO ARCHITECT LISTING SYSTEM AIRFLOWS, ELECTRIC DATA, TEMPERATURES, AND PRESSURE DROPS.
- AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
- ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
- THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
- THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
- THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
- ALL MECHANICAL SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING AND DUCTWORK.
- EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING, AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO BE REMOVED IS SHOWN WITH X OVER ITEM.

MECHANICAL SHEET INDEX

ISSUE	SHEET NO.	SHEET DESCRIPTION
	M0.0	MECHANICAL SPECIFICATIONS, NOTES, LEGEND AND SCHEDULES
	M1.0	MECHANICAL DEMOLITION FLOORPLAN
	M2.0	MECHANICAL FLOORPLAN

MECHANICAL LEGEND

ABBR	SYMBOL	DESCRIPTION
SA	☒	EXISTING SUPPLY AIR
RA	☒	EXISTING RETURN AIR
EA	☒	EXISTING EXHAUST AIR
OA	☒	EXISTING OUTSIDE AIR
SA	☒	SUPPLY AIR
RA	☒	RETURN AIR
EA	☒	EXHAUST AIR
OA	☒	OUTSIDE AIR
S	☐	SPACE TEMP SENSOR
T-STAT	⊖	THERMOSTAT
MVD	---	MANUAL VOLUME DAMPER
UNO		UNLESS NOTED OTHERWISE
AFF		ABOVE FINISHED FLOOR
E		EXISTING
D		DEMO
R	⊙	RELOCATED
	⊙	POINT OF CONNECTION NEW TO EXISTING
	⊙	ITEMS TO BE DEMOLISHED

EXHAUST FAN SCHEDULE

ITEM	MANUFACTURER/ MODEL	LOCATION/ SERVICE	CFM	ESP	FAN RPM	FAN SONES	ELEC. DATA			OPERATING WEIGHT (LBS)	OVERALL DIMENSIONS	NOTES
							WATTS	VOLT	PH			
①	AIR KING AK280LS	COMPUTER ROOM/ HEAT EXHAUST	280	0.1	1206	2.5	73.0	115	1	25	12-7/8" LENGTH X 12-3/4" WIDE X 9-7/8" TALL	①②

NOTES:

- PROVIDE WITH GRILLE AND BACKDRAFT DAMPER.
- PROVIDE WITH FAN SPEED CONTROLLER MOUNTED ON UNIT, AND REVERSE ACTING THERMOSTAT SET TO COME ON AT 75 DEG. F. AND OFF AT 70 DEG. F.

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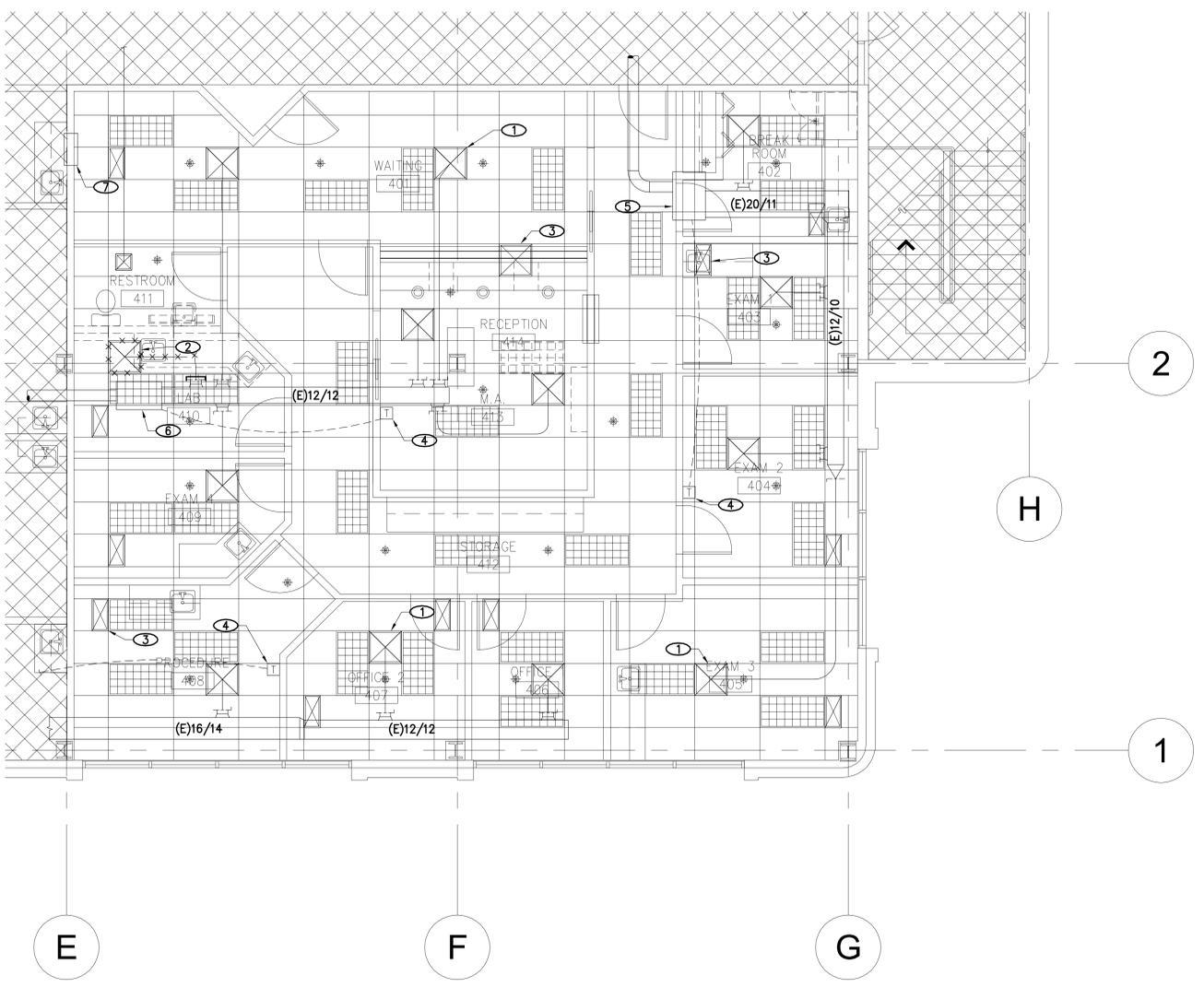
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M0.0

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *ilocke*
Date: Jan 14, 2016
2009 INTERNATIONAL CODES & 2014 NEC



DEC 10, 2015

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- NOTES**
- ① EXISTING SUPPLY DIFFUSER TO REMAIN. (TYPICAL)
 - ② REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED DUCT. CAP TAP AT MAIN AND SEAL AIRTIGHT. RETAIN DIFFUSER TO BE REINSTALLED DURING NEW CONSTRUCTION PHASE OF JOB.
 - ③ EXISTING RETURN GRILLE TO REMAIN. (TYPICAL)
 - ④ EXISTING TEMPERATURE SENSOR TO REMAIN.
 - ⑤ EXISTING FAN TERMINAL TO REMAIN.
 - ⑥ EXISTING VAV BOX TO REMAIN.
 - ⑦ EXISTING TRANSFER OPENING ABOVE CEILING TO REMAIN.



MECHANICAL DEMOLITION FLOORPLAN 1
1/4"=1'-0"
M1.0

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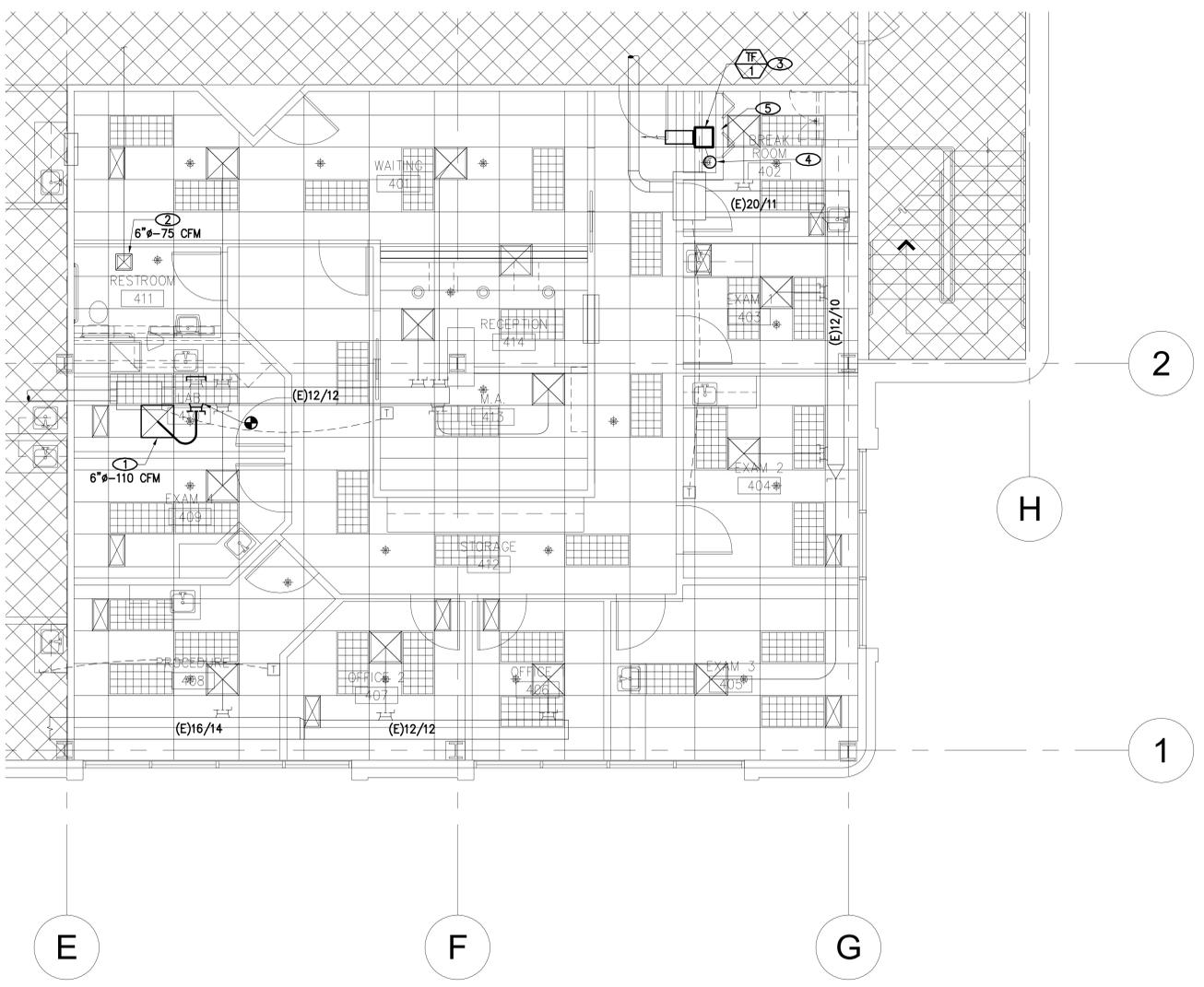
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NOTES

- ① NEW LOCATION FOR PREVIOUSLY REMOVED SUPPLY DIFFUSER. EXTEND SA DUCT, SIZED TO MATCH DUCT, BACK TO MAIN AND CONNECT WITH SPIN-IN FITTING WITH MVD. BALANCE TO CFM INDICATED.
- ② EXISTING EXHAUST GRILLE TO REMAIN. BALANCE TO CFM INDICATED.
- ③ PROVIDE AND INSTALL FAN, MOUNTED IN CEILING, PROVIDE FULL SIZED DISCHARGE DUCT AND DISCHARGE INTO CEILING PLENUM.
- ④ PROVIDE AND INSTALL REVERSE ACTING THERMOSTAT, MOUNT ON WALL AT 60" AFF.
- ⑤ UNDERCUT DOOR 2" BY G.C.



MECHANICAL FLOORPLAN
1/4"=1'-0"

1
M1.0



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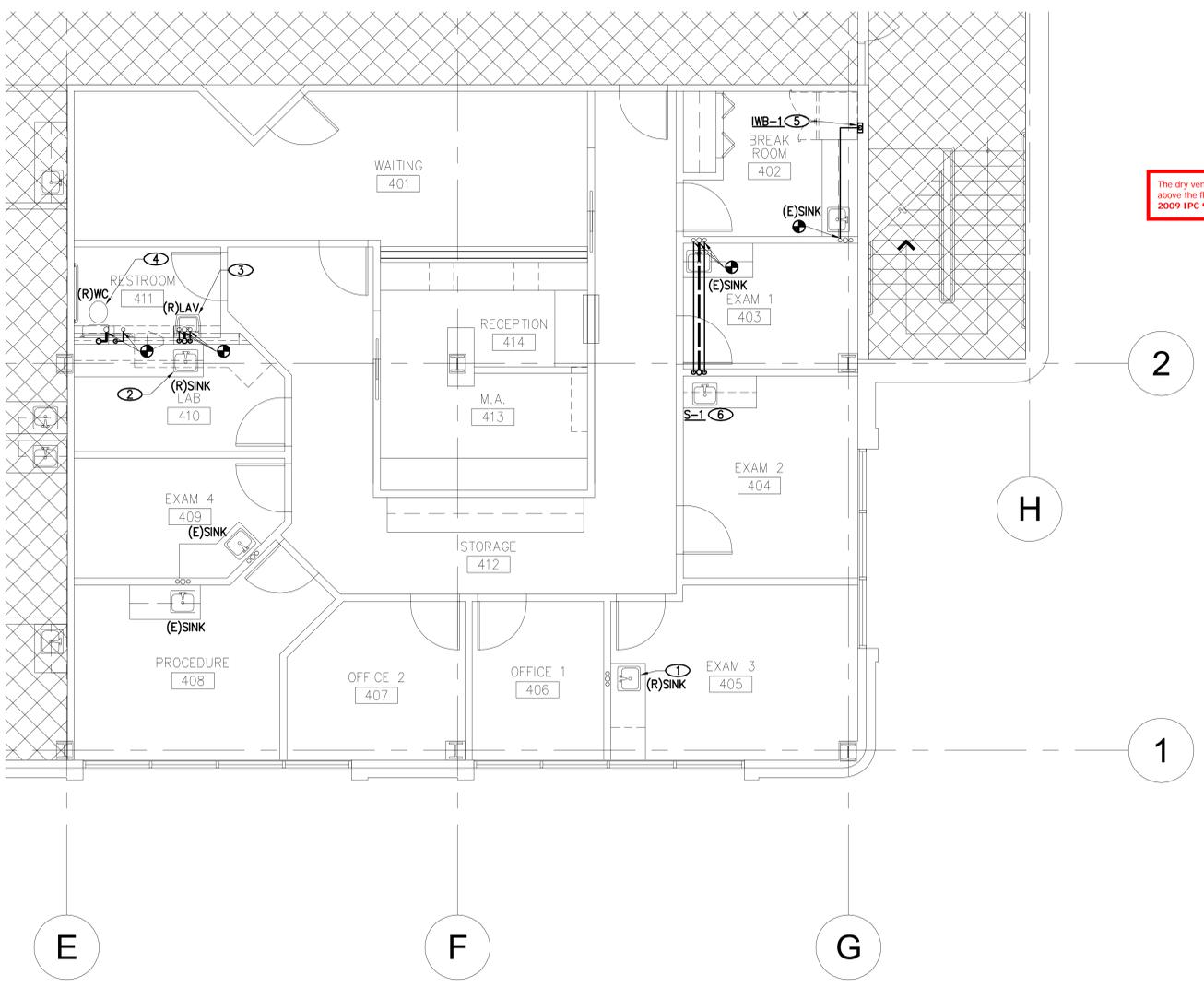
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The dry vent must rise 6" vertically above the flood level rim of the trap 2009 IPC 905.4

NOTES

- ① NEW LOCATION FOR PREVIOUSLY REMOVED 15"x17-1/2" SINK, MODIFY EXISTING ROUGH-INS AS REQUIRED AND CONNECT 1/2"HW, 1/2"CW, 1-1/2"W TO RELOCATED SINK.
- ② NEW LOCATION FOR PREVIOUSLY REMOVED 22"x19" SINK, EXTEND 1/2"HW, 1/2"CW, 1-1/2"W TO EXISTING BUILDING UTILITIES AND CONNECT.
- ③ NEW LOCATION FOR PREVIOUSLY REMOVED LAVATORY, EXTEND 1/2"HW, 1/2"CW, 1-1/2"W TO EXISTING BUILDING UTILITIES AND CONNECT.
- ④ NEW LOCATION FOR PREVIOUSLY REMOVED WATER CLOSET, EXTEND 1/2"CW, 4"W AND 2"V TO EXISTING BUILDING UTILITIES AND CONNECT.
- ⑤ ROUGH-IN AND CONNECT NEW IWB, EXTEND 1/2"CW AS INDICATED AND CONNECT TO EXISTING CW LINE AT SINK.
- ⑥ ROUGH-IN AND CONNECT NEW SINK S-1, EXTEND 1/2"CW, 1/2"HW, AND 2"W AS INDICATED AND CONNECT TO EXISTING BUILDING UTILITIES. PROVIDE WITH 1-1/2" AAV ON SINK TAILPIECE.



PLUMBING FLOORPLAN
1/4"=1'-0"

1
P1.0



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