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INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

703 east 1700 south salt lake city, utah 84105 ww.ajcarchitects.com



ARCHITECT / CONSULTANT

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

INTERMOUNTAIN

EMAIL: STEVE.ROSE@IMAIL.ORG

NAME: STEVE ROSE

OWNER HEALTHCARE DRAWING INDEX: GENERAL ET506 **TELECOM DETAILS** 36 SOUTH STATE STREET, SUITE 2300 GI001 ET601 TELECOM DIAGRAMS SALT LAKE CITY, UT 84111 GI002 EY119 GENERAL NOTES LEGENDS ABBREVIATIONS LEVEL 19 AUXILIARY PLAN PHONE: 801.442.2861

GI003

GI004

MECH/PLUMBING

SPECTRUM ENGINEERS

324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UT 84111 PHONE: 801.328.5151 EMAIL: RHB@SPECTRUM-ENGINEERS.COM NAME: RYAN BOOGAARD

ELECTRICAL | SPECTRUM ENGINEERS

324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UT 84111 PHONE: 801.328.5151 EMAIL: TDS@SPECTRUM-ENGINEERS.COM NAME: TYLER SQUIRE

ARCHITECTURAL DEMOLITION FLOOR PLAN **UL LISTINGS UL RATED PENETRATION ASSEMBLIES** ASSEMBLY TYPES LEVEL 19 - ANNOTATED FLOOR PLAN LEVEL 19 - FURNITURE FLOOR PLAN AE110 LEVEL 19 - DIMENSION FLOOR PLAN AE120 LEVEL 19 - FINISH FLOOR PLAN AE130 LEVEL 19 - CEILING PLAN AE400 ENLARGED ELEVATOR LOBBY PLANS & ELEVATIONS AE401 ENLARGED KITCHEN PLANS & ELEVATIONS AE410 INTERIOR ELEVATIONS AE411 INTERIOR ELEVATIONS AE510 **DETAILS - CEILING** AE530 DETAILS - WALLS AE550 **DETAILS - CABINETS** AE551 DETAILS - MILLWORK

ADA REQUIREMENTS

ADA REQUIREMENTS

AE560 DETAILS - FINISH AE580 DETAILS - DOOR & WINDOW AE601 DOOR SCHEDULE & LEGEND AE610 WINDOW TYPES AE620 FINISH & ACCESSORY SCHEDULE AE701 ROOM SIGNAGE SCHEDULE + SIGNAGE TYPES

ME501 MECHANICAL DETAILS ME502 MECHANICAL DETAILS ME601 MECHANICAL SCHEDULE MD101 LEVEL 19 MECHANICAL DEMO PLAN MD102 LEVEL 19 MECHANICAL PIPING DEMO PLAN MH101 LEVEL 19 MECHANICAL PLAN MP101 LEVEL 19 MECHANICAL PIPING PLAN

MECHANICAL COVER SHEET

PLUMBING COVER SHEET

PLUMBING PE001 PE501 PD101 PL101

PL102

MECHANICAL

ME001

PLUMBING DETAILS AND SCHEDULES LEVEL 19 PLUMBING DEMO PLAN LEVEL 19 WATER & GAS PIPING PLAN LEVEL 19 DRAIN, WASTE, & VENT PIPING PLAN

EE001 EE501 EE701

ELECTRICAL SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES ELECTRICAL DETAILS TYPICAL MOUNTING HEIGHT DETAILS EE702 TYPICAL MOUNTING HEIGHT DETAILS ED119 LEVEL 19 DEMOLITION PLAN EP119 LEVEL 19 POWER PLAN EP601 **EQUIPMENT SCHEDULE** EP602 PANEL SCHEDULES EL119 LEVEL 19 LIGHTING PLAN EL219 LIGHTING ZONE PLAN EL601 INTERIOR LIGHTING FIXTURE SCHEDULE EL602 LIGHTING CONTROL SCHEDULES ET001 TELECOM SCHEDULE AND NOTES ET119 LEVEL 19 TELECOM PLAN ET401 ENLARGED TELECOM PLANS ET501 TELECOM ELEVATIONS ET502 TELECOM DETAILS ET503 TELECOM DETAILS ET504 TELECOM DETAILS TELECOM DETAILS ET505

VICINITY MAP:

LEVEL 19 AUDIO-VIDEO ROUGH-IN PLAN AUDIO-VIDEO ROUGH-IN DETAILS

EY601

EJ119

EJ501

EJ601

TM001

SOUND MASKING SYSTEM DETAILS, DIAGRAM, NOTES,



PROJECT DESCRIPTION INTERMOUNTAIN **HEALTHCARE** WORLD TRADE

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

CENTER LEVEL 19

AHJ STAMP

SHEET NAME: TITLE SHEET

REVISIONS

DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY PROJECT#: 1750

ANCHOR BOLT

ASPHALT CONCRETE

BOTTOM OF BEAM

CEILING HEIGHT

CENTER TO CENTER

APPROVED

BFAM

BLOCK

BOARD

BOTTOM

BUILDING

CEILING

CEMENT

CERAMIC

CLEAR

CLOSET

COLUMN

COMPOSITION

CONNECTION

CONTINUOUS

COORDINATE

CORRIDOR

DEMOLITION

DIAGONAL

DIAMETER

DIMENSION

DIRECTION

DOOR OPENING

DOUGLAS FIR

DOWNSPOUT

DRINKING FOUNTAIN

NEW CONSTRUCTION

ALL WORK IS NEW UNLESS LABELED "EXISTING"

RIGHT SIDE

ALL NEW CONSTRUCTION IS FULLY NOTED AS SHOWN BELOW.

ALL NEW CONSTRUCTION IS SHOWN HATCHED & SHADED AS ILLUSTRATED BELOW

DRAWING

DOOR

DOUBLE

DOWN

EACH

DELETE

DETAIL

COUNTERSINK

CONCRETE MASONRY UNIT

CONCRETE

APPR

BLK

BOT

B.O.B.

BLDG

CLG

CH

CEM

C/C

CER

CLR

CLOS

COL

COMPO

CONC

CONN

CONT

CORD

CORR

CSK

DEL

DET

DIA

DR

DO

DWG

DF

DIAG

DEMO

CMU

LIGHTING MAINTENANCE **MANUFACTURER** RISER MASONRY OPENING MATERIAL RMMAXIMUM

R.O.

SECT

SPECS

STG

STRUCT

SIMUL

SUSP

SYM

THK

TBC

T.O.C.

T.O.S.

T.O.W.

TDC

TYP

LTG

MAINT

MFG

MO

MAT'L

MAX

MECH

MET

MEZZ

MIN

MISC

MULL

N.I.C

N.T.S.

NO.

OFF

OC

OPP

OH

OD

OF

OFI

PR

PLAS

PREP

PΤ

PTDF

R OR RAD

REDW'D

REFL

RCP

REINF

OFOI

OPN'G

MECHANICAL

METAL

MEZZANINE

MINIMUM

MULLION

NON-RATED

NOT TO SCALE

NUMBER

OFFICE

ON CENTER

OPENING

OPPOSITE

OVERFLOW

INSTALLED

PAIR

PLASTIC

PLATE

PLYWOOD

PORTLAND CEMENT

PRESSURE TREATED

PRESSURE TREATED DOUGLAS

PREPARATION

PROJECTION

QUARRY TILE

FREFERENCE

REDWOOD

REFLECTED

REINFORCE

REFLECTED CEILING PLAN

RADIUS

OPPOSITE HAND

OUTSIDE DIAMETER

OWNER FURNISH ITEM

OWNER FURNISHED OWNER

NOT IN CONTRACT

OPERATOR CONTROL CENTER

NEW

MISCELLANEOUS

MECHANICAL BOLT

EXPANSION JOINT

FACE OF CONCRETE

FIBER REINFORCED PLASTIC

FACE OF STUD

FACE OF WALL

FINISH FLOOR

FLOOR DRAIN

FLOOR SINK

FULL HEIGHT

GALVANIZED

GAUGE

GLASS

GRADE

CONCRETE

GYPSUM BOARD

HARDWOOD

HIGH POINT

HORIZONTAL

NSULATION

INTERIOR

JANITOR

LAVATORY

LIGHT WEIGHT

LEVEL

DIMENSIONING LEGEND (TYPICAL PLAN VIEWS)

METAL OR WOOD STUD FRAMED WAL

NOMINAL OPENING

MASONRY OR STONE VENEER

FACE OF MASONRY.

FROM FACE OF STUD.

1/4"=1' OR LARGER SCALE

METAL OR WOOD STUD FRAMED WALL W/

WALL TYPE DESIGNATES WIDTH OF WALL

DOORS DIMENSIONED TO WIDTH OF

FRAME SIZE - NOT ROUGH OPENING.

WIDTH OF WALL DIMENSIONED FROM

WIDTH OF MASONRY WALL SIMENSIONED

WIDTH OF WALL DIMENSIONED ONLY AT

WINDOWS DIMENSIONED TO NOMINAL

HOLLOW METAL

NSIDE DIAMETER

FULL SIZE

GALV OR

HORIZ

INSUL

LAV

LEV

FOUNDATION

FULL SIZE DETAIL

GENERAL CONTRACTOR

GLASS FIBER REINFORCED

FLOOR

FINISHED OPENING

FIRE HOSE CABINET

EXTERIOR

REQUIRED RESILIENT RESTROOM(S) **ROOF DRAIN ROOF TOP UNIT** ROOM **ROUGH OPENING**

SECTION

SHEET

SIMILAR

SQUARE

STATION

STORAGE

STRUCTURAL

SUMULATED

SUSPENDED

TELEPHONE

TEMPERED

TONGUE & GROOVE

TOP BACK OF CURB

TOP OF FOOTING

TOP OF PARAPET

TOP OF STEEL

TOP OF WALL

VERIFY IN FIELD

WATER CLOSET

WATERPROOFING

WORKING POINT

WROUGHT IRON

WATER LEVEL

WIDE

WITH

WOOD

VERTICAL

TREAD

TYPICAL

TOP OF CONCRETE OR CURB

TRAFFIC DECK COVERING

UNLESS NOTED OTHERWISE

THICK

SYMMETRICAL

STEEL

STANDARD

SPECIFICATIONS

STAINLESS STEEL

NUMBER DIAMETER OR ROUND DEGREE **NORTH ARROW** & AND GRID HEAD

DETAIL NUMBER

DETAIL CUT LINE

DETAILED AREA

PAGE WHERE FOUND

WALL SECTION NUMBER

- PAGE WHERE FOUND

- WALL SECTION NUMBER

PAGE WHERE FOUND

WALL SECTION CUT LINE —

— DRAWING NUMBER

- DRAWING NAME

DRAWING SCALE

CORRESPONDING -

WALL FINISHES

BASE FINISH —

WINDOW/CURTAIN WALL DESIGNATION. SEE WINDOW SCHEDULE.

WALL, FLOOR, CEILING, ROOF DESIGNATION. SEE APPROPRIATE TYPE

WALL, FLOOR, BASE, CEILING FINISH TAG. THIS SYMBOL WHEN ATTACHED TO A WALL SHALL INDICATE THIS FINISH FOR ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT

WALL SECTION CUT LINE —

SYMBOLS

DETAIL TAGS

WALL SECTION TAG

BUILDING SECTION TAG

DRAWING TITLE

ELEVATION TAGS

WORK POINT OR ELEV. BENCH MARK

UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE ENTIRE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.

INCLUDED IN DRAWINGS.

GENERAL NOTES:

THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.

THE GENERAL CONTRACTOR SHALL HEREAFTER BE REFERRED TO AS "GENERAL

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE

SHALL UTILIZE THE COMPLETE & ENTIRE CONSTRUCTION DRAWINGS AND WRITTEN

SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE

CONSTRUCTION OF THIS PROJECT AND IS RESPONSIBLE TO COORDINATE ALL

DRAWINGS AND SPECIFICATIONS WITH ALL SUBCONTRACTORS REGARDLESS OF

NCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE

LOCATION IN CONTRACT DOCUMENTS. ITEMS LISTED IN DRAWINGS MAY NOT BE

LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR

CONTRACTOR" OR "GC". THE OWNER MAY HEREAFTER BE REFERRED TO AS "OWNER".

DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES DURING BIDDING AND PRIOR TO COMMENCING WORK.

DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS: DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK.

ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK UNLESS OTHERWISE INDICATED. SEE SECTION ON "DIMENSIONING" THIS SHEET. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING

COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION /

APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.

DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.

THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS. THE ARCHITECT WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS REVIEWED AND STAMPED THE SHOP DRAWING/SUBMITTAL. THE GC IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE

FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

ALL WORK, MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.

ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-117.1-2009, AND THE AMERICANS WITH DISABILITIES ACT (ADA).

15 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING

THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS IN WORKING

A GENERAL BUILDING PERMIT IS REQUIRED. ALL PERMITS OR CONNECTION FEES SHALL BE SECURED BY THE GENERAL CONTRACTOR AND REIMBURSED THROUGH THE OWNER.

THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE SHOWN ON PLAN.

MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES. SEE CODE SUMMARY, SHEET AE001.

THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR AND INTERIOR PEDESTRIAN TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO THE ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT.

THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES FOR DUST AND NOISE CONTROL, AND ALL REQUIRED ENVIRONMENTAL PROTECTION WHERE WORK JOINS EXISTING CONDITIONS.

ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION DAILY.

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND WHEN IDENTIFIED TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF IDENTIFIED UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE

APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY workmen. All construction sets shall reflect the same information. The GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB

THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING AS REQUIRED FOR MOUNTING OF WALL MOUNTED SHELVES, CABINETS, HC GRAB BARS AND PARTITION BRACES AND ALL OTHER ITEMS IDENTIFIED ON THE EQUIPMENT OR ACCESSORY SCHEDULE

BLOCKING SHALL BE FIRE TREATED WHERE REQUIRED BY THE BUILDING CODE

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, UNCRATING, INSTALLATION AND HOOK-UP OF ALL OWNER FURNISHED ITEMS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.

PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS WHERE REQUIRED

PROVIDE 2" STAINLESS STEEL METAL CORNER GUARD OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.

PROVIDE METAL CORNER TRIM AT ALL OUTSIDE CORNERS OF PLASTER AND DRYWALL

ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH APPROPRIATE SEALANT MATERIAL.

UNLESS OTHERWISE NOTED, INTERIOR METAL, TRIM, RAILINGS, MOLDINGS, FRAMES CASTING ETC., SHALL BE PAINTED.

FOR PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS, PROVIDE APPROVED ASSEMBLIES WITH SELF CLOSING DEVICES FOR ANY PENETRATIONS IN RATED

THE GC SHALL VERIFY LOCATIONS OF ALL CEILING & WALL ACCESS PANELS WITH MECHANICAL, FIRE SPRINKLER AND PLUMBING PLANS. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED WITH A FIRE RATING EQUAL TO THE WALL OR CEILING ASSEMBLY INTO WHICH THEY ARE TO BE INSTALLED. FINISH AND LOCATION SHALL BE APPROVED BY THE ARCHITECT.

THE GC SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS & BASES WITH EQUIPMENT MANUFACTURERS & SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS ON

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DEFERRED SUBMITTALS:

1. ANY BUILDING FIRE SPRINKLER WORK 2. ANY BUILDING FIRE ALARM SYSTEM WORK 3. ANY ALTERNATE AUTOMATIC FIRE-EXTINGUISHING SYSTEM WORK 4. SUSPENDED CEILING SYSTEMS

5. ANY STAND PIPE SYSTEM WORK 6. ANY EMERGENCY RESPONDER RADIO SYSTEM WORK 7. GLASS DEFLECTION CALCULATIONS FOR BUTT GLAZING CONDITIONS 8. SEISMIC RESTRAINTS FOR ELECTRICAL

NOTES TO BIDDERS:

9. SEISMIC RESTRAINTS FOR HVAC

SUBSTITUTION AND VALUE ENGINEERING ALTERNATES FOR SUB CONTRACTORS OR PRODUCTS TO BE COORDINATED WITH ARCHITECT, BUT WOULD LIKE TO BE SEEN AS A MEANS OF PROACTIVE BUDGETARY METHODS DURING THE BIDDING PROCESS.

FURNITURE IS SHOWN FOR REFERENCE ONLY AND WILL BE OWNER PROVIDED, BUT SHOULD BE COORDINATED DURING CONSTRUCTION BY THE CONTRACTOR. APPLIANCES SHOULD BE INCLUDED IN THE CONTRACTORS BID. CONTRACTOR TO COORDINATE ANY AND ALL CONCERNS FOR POWER, PLUMBING, ELECTRICAL COORDINATION WITH APPLIANCES AND OWNER-PROVIDED FURNITURE.

CONTRACTOR, SUBCONTRATOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN BIDDING THIS PROJECT SHALL BE RESPONSIBLE FOR INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS.

SCOPE OF WORK:

NEW TENANT IMPROVEMENT WITHIN THE EXISTING WORLD TRADE CENTER TOWER BUILDING ON THE 19TH FLOOR. CONSTRUCTION IS A SET OF OFFICES, CONFERENCE ROOMS, BREAK AREA, WORKROOM, AND SECURITY AREA OF TYPICAL CONSTRUCTION AND AVERAGE FINISH LEVELS. TO AID WITH SOUND TRANSFER, ALL ACCOUSTICAL WALLS TO GO TO DECK, ALL WALLS SEPERATING NOISY SPACES TO BE ACOUSTICAL

EXISTING SPACE WILL NEED TO BE FIELD VERIFIED, MEASURED, AND MODIFIED TO COMPLETE PROJECT, INCLUDING PLUMBING AND MECHANICAL PENETRATIONS AND NEW FINISHES ON EXISTING WALLS. CONTRACTOR IS TO ENSURE ENTIRE SPACE IS OF NEW QUALITY AND FINISH LEVEL, ALL EXISTING EXPOSED SURFACES TO RECEIVE PAINT PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

GENERAL NOTES **LEGENDS ABBREVIATIONS**

REVISIONS

MARK DESCRIPTION 02/05/18 ADD#1

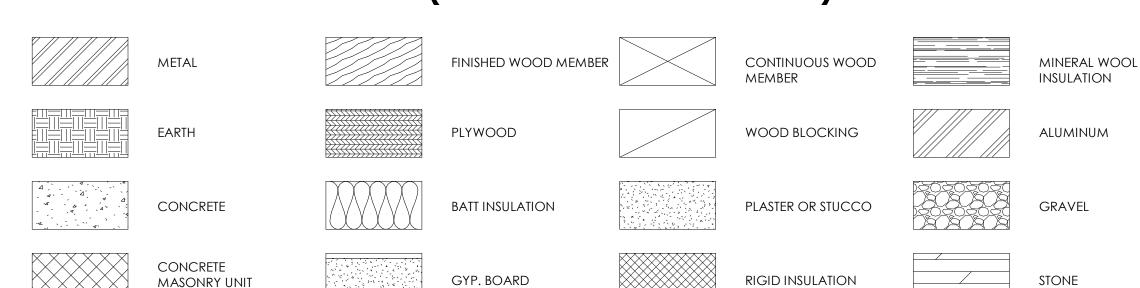
01/19/2018

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JMK

1750

NEW MATERIALS LEGEND (TYPICAL SECTION VIEWS)



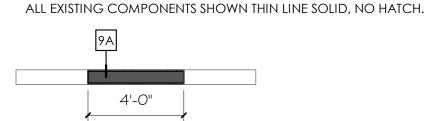
PROJECT#: SHEET NUMBER:

CHECKED BY: K. RIGBY

DOORS DIMENSIONED TO WIDTH OF NOMINAL OPENING. 4'-0" WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - <u>NOT</u> ROUGH OPENING. WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE. DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING. WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - <u>NOT</u> MASONRY OPENING. 4'-0" ACTUAL WIDTH OF WALL DIMENSIONED DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING. WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT ROUGH OPENING.

4'-0"

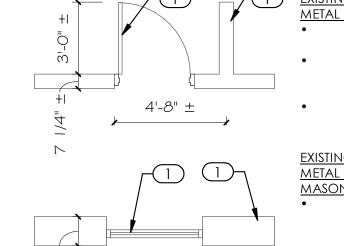
NEW CONSTRUCTION AT EXISTING



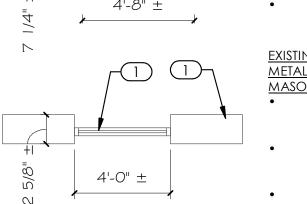
NEW CONSTRUCTION SHOWN HATCHED W/ THICKER LINE.

EXISTING CONDITIONS

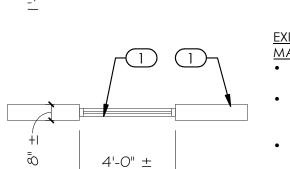
ALL EXISTING CONSTRUCTION IS SHOWN WITHOUT HATCH AS ILLUSTRATED BELOW. ALL EXISTING CONSTRUCTION IS LABELED "EXISTING" BY KEYNOTE OR OTHERWISE. ALL DIMENSIONS TO EXISTING ARE APPROXIMATE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.



METAL OR WOOD STUD FRAMED WALL WIDTH OF WALL DIMENSIONED TO FINISHED FACE. DOORS DIMENSIONED TO NOMINAL DOOR SIZE EXCLUDING FRAME WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE.



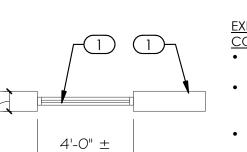
metal Or wood stud framed wall w/ MASONRY OR STONE VENEER WIDTH OF WALL DIMENSIONED FROM FINISHED FACE TO OVERALL NOMINAL WIDTH. DOORS DIMENSIONED TO NOMINAL DOOR SIZE EXCLUDING WINDOWS DIMENSIONED TO



MASONRY WALL (TO REMAIN) WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE.

NOMINAL FRAME SIZE.





DEMOLITION AT EXISTING

ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.

4'-0"

(DEMOLISH (

EXISTING)

ALL COMPONENTS TO BE DEMOLISHED ARE SHOWN DASHED, THICK LINE.

(EXISTING TO

RFMAIN)

NOMINAL WIDTH OF WALL DIMENSIONED. DOORS DIMENSIONED TO

CONCRETE WALL (TO REMAIN)

WINDOWS DIMENSIONED TO

NOMINAL DOOR SIZE EXCLUDING NOMINAL FRAME SIZE.

— ROOM NAME

- DELTA SYMBOL & REVISION NUMBER Room name ROOM NUMBER REVISION CLOUD AROUND AREA OF CHANGE

REFERENCED **ELEVATION**

- INDICATES ITEM OR FLOOR LEVEL BEING

ELEVATION DATUM

BE TERMINATED BY WINDOWS OR DOORS UNO.

ROOM NAME TAG REVISION CLOUD & TAG

MISCELLANEOUS KEYED NOTE SYMBOLS

2 GLAZING MODIFIER

GLAZING DESIGNATION.

101 DOOR DESIGNATION. SEE DOOR SCHEDULE

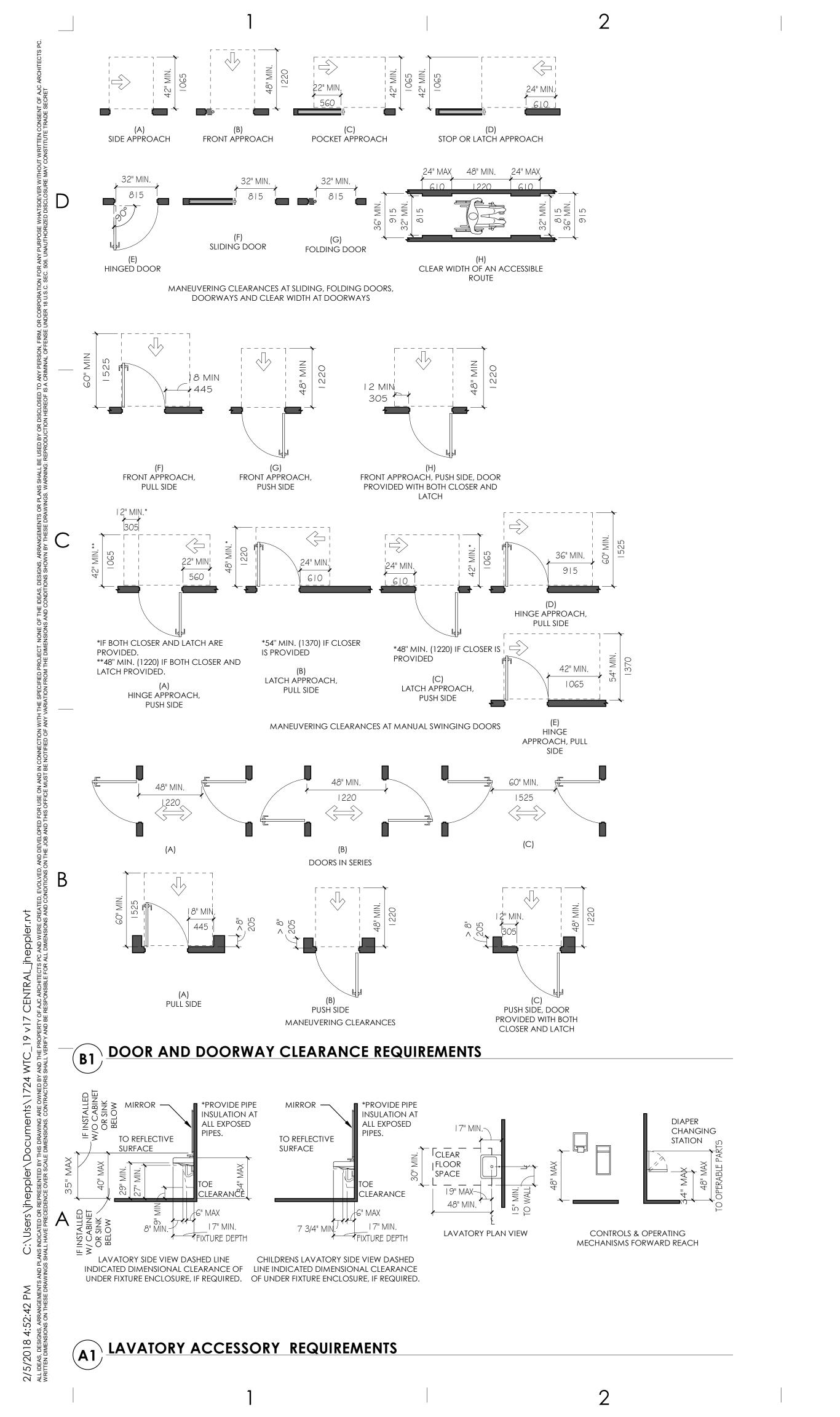
DATUM TAG

ROOM FINISH TAG

ISSUE DATE:

ISSUE TYPE:

DRAWN BY:



GENERAL NOTES:

IT CAN BE

TO ONE

60" MIN

ADULT FLOOR MOUNTED WATER CLOSET

AND CHILDREN'S WATER CLOSET

REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE ADA

- REQUIREMENTS AND STANDARDS.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES ADA MOUNTING HEIGHT REQUIREMENTS.
- REFER TO SITE PLAN FOR ACCESSIBLE ROUTE REQUIREMENTS AND DETAIL REFERENCES. (NOT APPLICABLE TO ALL PROJECTS.)
- UNLESS NOTED AS "MIN." OR "MAX" DIMENSIONS SHOWN ARE ABSOLUTE. DIMENSIONS SHOWN HERE SHALL GOVERN THE INSTALLATION OF ALL ACCESSIBLE FIXTURES AND ACCESSORIES, UNLESS MORE SPECIFIC DIMENSIONS ARE SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT ARE WITHIN THE PERMISSIBLE LIMITS SHOWN HERE.
- MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.

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ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

HEALTHCARE

UTAH 84111

AHJ STAMP

SHEET NAME:

REVISIONS

ADA REQUIREMENTS

MARK DATE DESCRIPTION

01/19/2018

WORLD TRADE

CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY,

INTERMOUNTAIN

DRINKING FOUNTAIN CLEARANCES

WITHIN ALCOVES MINIMUM 63" WIDE, MINIMUM 18" DEEP WHEN DOUBLE DRINKING FOUNTAINS ARE REQUIRED AND 32" MIN. CLR. WHEN A SINGLE FOUNTAIN IS PERMITTED.

CONTRACTOR SHALL COORDINATE WITH SIZE OF WATER FOUNTAIN TO BE USED AND SIZE ALCOVE ACCORDINGLY COMPLYING WITH REQUIREMENTS

AND RECOMMENDATIONS AND COORDINATING WITH THE ARCHITECT.

WARNING FOR THE VISION IMPAIRED AT A PROJECTED DRINKING FOUNTAIN CAN

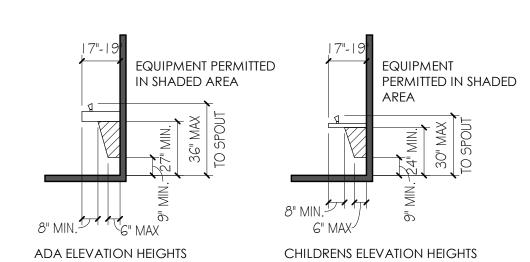
BE PROVIDED BY EITHER OF THE FOLLOWING MEANS: THE SURFACE OF THE FLOOR OR GROUND AT THE DRINKING FOUNTAIN CAN BE OF CONTRASTING COLOR WITH A TEXTURE THAT CONTRASTS RESILIENCY WITH THE ADJACENT FINISHED FLOOR MATERIAL, SO THAT SENSED BY A CANE, WITH THE TEXTURE EXTENDING FROM THE WALL FOOT BEYOND THE FRONT EDGE OF THE DRINKING FOUNTAIN AND ONE FOOT BEYOND EACH SIDE OF THE OUNTAIN, OR INSTALL WING WALLS ON **EACH SIDE** OF THE DRINKING FOUNTAIN TO B. PROJECT OUT FROM THE MAIN

LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6" WALL AT OF THE PATH OF TRAVEL FLOOR FINISH. THERE MUST BE 32" CLEAR BETWEEN THE WING WALLS.

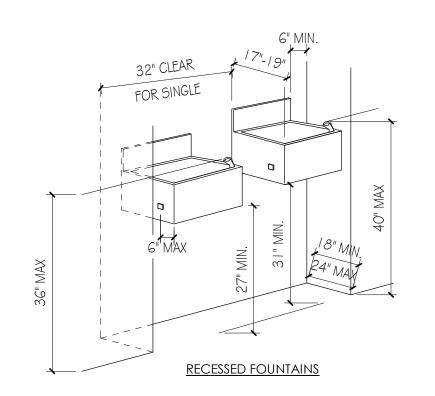
ILLUSTRATIONS SHOWN HERE ARE FOR DIMENSIONAL ACCESSIBILITY PURPOSES ONLY. A SECOND DRINKING FOUNTAIN SHOULD BE PROVIDED AT A MOUNTING HEIGHT SUITABLE TO PERSONS WITH LIMITED PHYSICAL BENDING ABILITY, ADJACENT TO THE ACCESSIBLE FOUNTAIN, MAINTAINING MINIMUM CLEARANCES NOTED AND AS REQUIRED. PROVIDE TEXTURED AREA OF CONTRASTING COLOR TO IDENTIFY WATER FOUNTAIN LOCATION AS NOTED. WHEN FOUNTAIN IS AT AN INTERIOR LOCATION, THE TEXTURED AREA SHALL ALSO BE OF DIFFERENT RESILIENCY THAN THAT OF THE ADJACENT FLOOR SURFACE FINISH. SEE TYPICAL ACCESSIBILITY NOTES SHEET FOR ADDITIONAL REQUIREMENTS.

5" MAX 15" MIN. **EQUIPMENT PERMITTED** 125 , 380 IN SHADED AREA

PLAN VIEW NON ADA ELEVATION HEIGHTS



DRINKING FOUNTAIN CLEARANCES



100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:

ISSUE DATE:

G1003

(A4) TOILET CLEARANCE REQUIREMENTS

AMBULATORY

ACCESSIBLE

WATER CLOSET

ACCESSIBLE

WATER CLOSET

60" M/N

ADULT WALL HUNG

WATER CLOSET

PARTITION

6" MIN

150

990-1040

CHILDRENS WATER

CLOSET SIDE VIEW

WATER CLOSET

SIDE VIEW

305

990-1040

42" MIN

60" MIN

1525

AMBULATORY ACCESSIBLE

TOILET COMPARTMENT

TOILET ACCESSIBLE FIXTURE

MOUNTING HEIGHTS

ALTERNATE DOOR -LOCATION

1065

ELEVATION

ADULT

SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

6" MIN

150

WHEELCHAIR ACCESSIBLE COMPARTMENT TOE CLEARANCE

LOCATION

– DISPENSER – 36" MIN

LOCATION LOCATION

CHILDRENS WATER CLOSET

FRONT VIEW

WATER CLOSET

FRONT VIEW

60" MIN

1525

36" MIN.

Ē. —

ELEVATION

CHILDREN

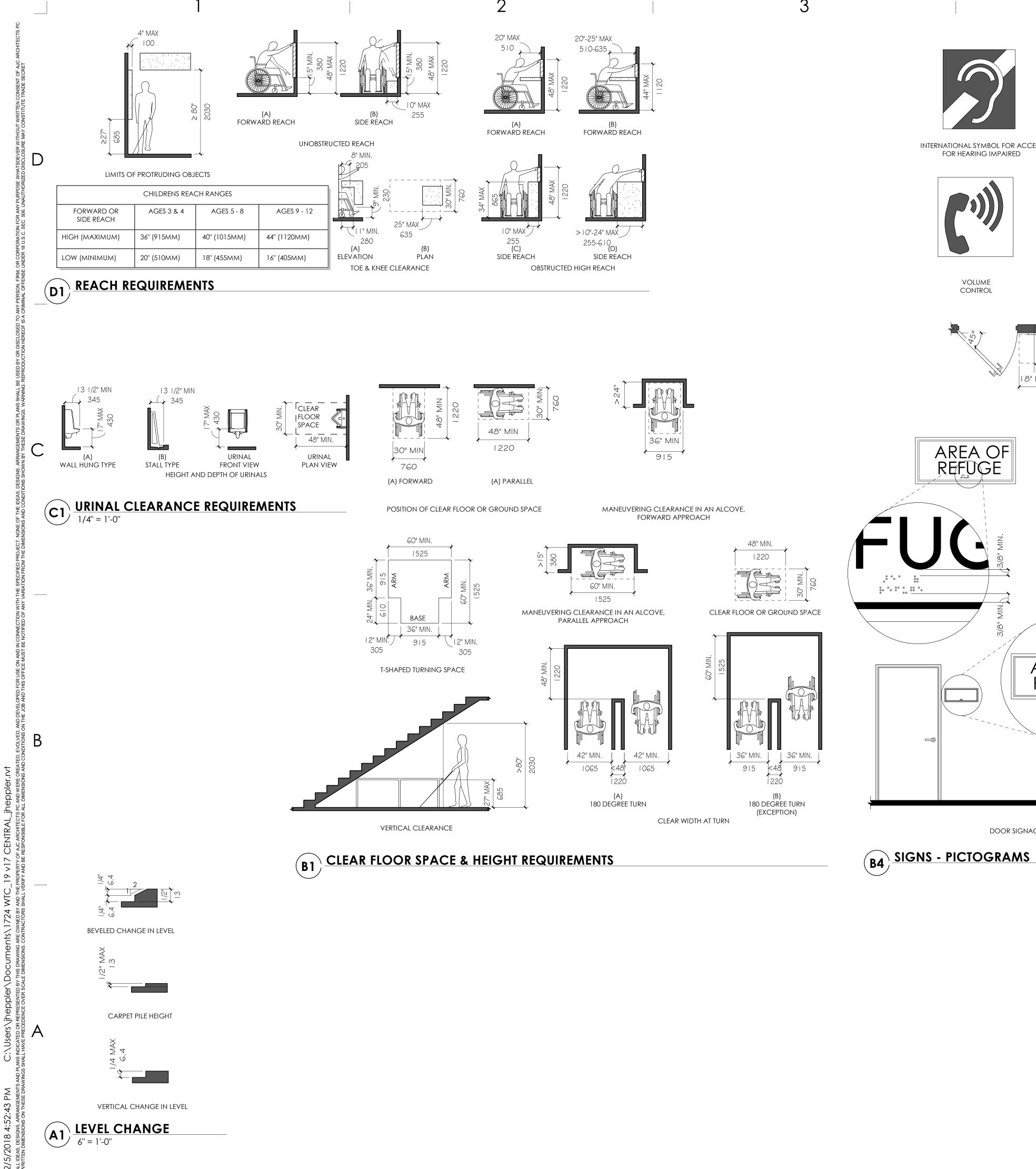
— DISPENSER

LOCATION

PAPER

DISPENSER

(A5) WATER COOLER REQUIREMENTS



GENERAL NOTES:

REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE ADA

- REQUIREMENTS AND STANDARDS.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES ADA MOUNTING HEIGHT REQUIREMENTS.
- REFER TO SITE PLAN FOR ACCESSIBLE ROUTE REQUIREMENTS AND DETAIL REFERENCES. (NOT APPLICABLE TO ALL PROJECTS.)
- UNLESS NOTED AS "MIN." OR "MAX" DIMENSIONS SHOWN ARE ABSOLUTE. DIMENSIONS SHOWN HERE SHALL GOVERN THE INSTALLATION OF ALL ACCESSIBLE FIXTURES AND ACCESSORIES, UNLESS MORE SPECIFIC DIMENSIONS ARE SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT ARE WITHIN THE PERMISSIBLE LIMITS SHOWN HERE.
- MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.



703 east 1700 south salt lake city, utah 84105 ww.ajcarchitects.com



LETTERS AND NUMBERS:

LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEC. 1117B.5.6.1) RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH. (SEC. 1117B5.6.2) PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT. (SEC. 1117B.5.6.3)

LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (SEC. 1117B.5.3) CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (SEC. 1117B.5.5)

CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1121B, THE MINIMUM CHARACTER HEIGHT SHALL BE 3". (SEC. 1117B.5.4)

CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. (SEC. 1117B.5.2)

SIGN LOCATIONS:

ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (SEC. 1117B.5.7 & 1127B.3)

WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHAL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAF DOORS, SIGNS SHALL BE PLACE ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (SEC. 1117B.5.9)

ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.

WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY

BRAILLE:

USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.

0.2 INCH SPACE BETWEEN CELLS. DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

SEE 4/T-4 FOR MORE INFO.

SHEET NAME:

ADA REQUIREMENTS

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:

G1004

DOOR SIGNAGE

INTERNATIONAL SYMBOL FOR ACCESS

FOR HEARING IMPAIRED

VOLUME

CONTROL

AREA OF REFUGE

PROPORTIONS

INTERNATIONAL

MEN

PICTOGRAM

TDD SYMBOL

CENTERED ON 18" MIN TACTILE CHARACTERS

AREA OF

REFUGE

ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

- SEE SHEET G1002 FOR GENERAL NOTES.
- SEE TITLE SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE SHEET AE007 FOR UL PENETRATIONS.
- SEE SHEET AE530 FOR TYPICAL WALL FRAMING DETAILS

NOTE: FIELD VERIFY ALL EXISTING DIMENSIONS.

NEW DRAIN LINES TO BE RUN BELOW 19TH FLOOR SLAB AND ABOVE 18TH FLOOR CEILINGS BELOW. COORDINATE W/ OWNER'S PROJECT & BUILDING MANAGER, CONTRACTOR IS RESPONSIBLE FOR EXISTING CEILING REPAIR & REPLACEMENT COSTS.



ARCHITECT / CONSULTANT

ajc architects

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salt lake city, utah 84105

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DEMOLITION NOTES:

 THE EXISTING SPRINKLER SYSTEM MUST REMAIN OPERATIONAL DURING THE CONSTRUCTION PROCESS. THE FINAL RENOVATED SPRINKLER LAYOUT WILL BE SUBMITTED FOR APPROVAL.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS PRIOR TO PROCEEDING WITH THE WORK. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH THE ARCHITECT BEFORE PROCEEDING.

- THE CONTRACTOR IS TO LEAVE ALL EXISTING STRUCTURAL MEMBERS IN PLACE, UNAFFECTED, AND UNDAMAGED BY DEMOLITION UNLESS IDENTIFIED FOR SELECTIVE DEMOLITION.
- ALL MATERIALS OF CONSTRUCTION THAT HAVE BEEN DEMOLISHED ARE TO BE REMOVED FROM THE SITE AT THE EXPENSE OF THE DEMOLITION CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL UTILITIES AFFECTED BY DEMOLITION SHALL BE DISCONNECTED, INCLUDING COMPLETION OF ALL REQUIRED FILINGS AND ATTAINMENT OF APPROVALS, BY THE APPROPRIATE TRADE.
- CONTRACTOR SHALL TAKE CARE NOT TO OVERLOAD EXISTING FLOORS.
- PERIODIC INSPECTIONS BY ELECTRICAL, PLUMBING, AND STRUCTURAL CONSULTANTS, OWNER, AND ARCHITECT ARE TO BE HELD WEEKLY DURING DEMOLITION TO OBSERVE PROGRESS AND PROVIDE ADDITIONAL INFORMATION AS NEEDED FOR SELECTIVE DEMOLITION.
- CONSIDERATION FOR PROTECTION OF EXISTING WINDOWS/DOORS AND BUILDING ENVELOPE ELEMENTS ARE TO BE INCLUDED DURING DEMOLITION.
- BUILDING INTERIOR IS TO BE SELECTIVELY DEMOLISHED PER THESE DRAWINGS. BUILDING ENVELOPE AND SECURITY SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS.
- AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED.
- WALLS THAT ARE SCHEDULED TO BE DEMOLISHED SHOULD ALSO INCLUDE ALL EXISTING DOORS, CASEWORK, AND VENEER MATERIALS ASSOCIATED WITH THOSE
- ALL REMAINING WALLS SHOULD HAVE FINISHES DEMOLISHED TO A GRAY SHELL CONDITION, THIS INCLUDES THE REMOVAL OF ANY EXISTING SURFACE VENEER MATERIALS, WAINSCOT MILLOWORK, OR WALLPAPER IN ORDER TO TAKE THE

WALLS TO A WALL BOARD ONLY SURFACE.

- UPON COMPLETION OF DEMOLITION CONTRACTOR SHALL EVALUATE THE EXISTING CONDITION OF THE FIREPROOFING ON THE EXPOSED STRUTURAL FRAME. CONTRACTOR SHOULD PATCH AND REPAIR ALL FIREPROOFING PROTECTIVE MATERIALS THAT ARE ABSENT TO BRING THE STRUCTURAL FRAME BACK INTO COMPLIANCE WITH THE DESIGNED FIRE RATING OF THE BUILDINGS STRUCTURAL
- UPON COMPLETION OF DEMOLITION CONTRACTOR SHALL EVALUATE THE EXISTING CONDITION OF FIRE RATED WALLS AND PATCH AND REPAIR ANY PENETRATIONS THAT HAVE BEEN MADE IN THOSE WALLS AS NECESSARY TO MAINTAIN THE INTEGRITY OF THE DESIGN FIRE RATING OF EACH WALL. EXISTING PENETRATIONS CAUSED BY PAST RENOVATIONS PROJECTS TO THE SPACE SHOULD BE REPAIRED AS WELL AS ANY NEW PENETRATIONS CAUSED BY THE DEMOLITION ACTIVITIES.
- CONTRACTOR SHOULD EVALUATE ANY DEMOLITION REQUIRED IN THE FLOOR BELOW FOR THE ROUTING OF NEW PLUMBING AND INCORPORATE THAT EFFORT IN THEIR SCOPE. EVERY EFFORT SHOULD BE MADE TO BE THE LEAST INVASIVE POSSIBLE, AS THOSE FLOORS ARE OCCUPIED THIS WORK MAY NEED TO BE SCHEDULED AFTER NORMAL WORK HOURS.

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

DEMOLITION FLOOR PLAN

REVISIONS

MARK DATE DESCRIPTION 02/05/18 ADD#1

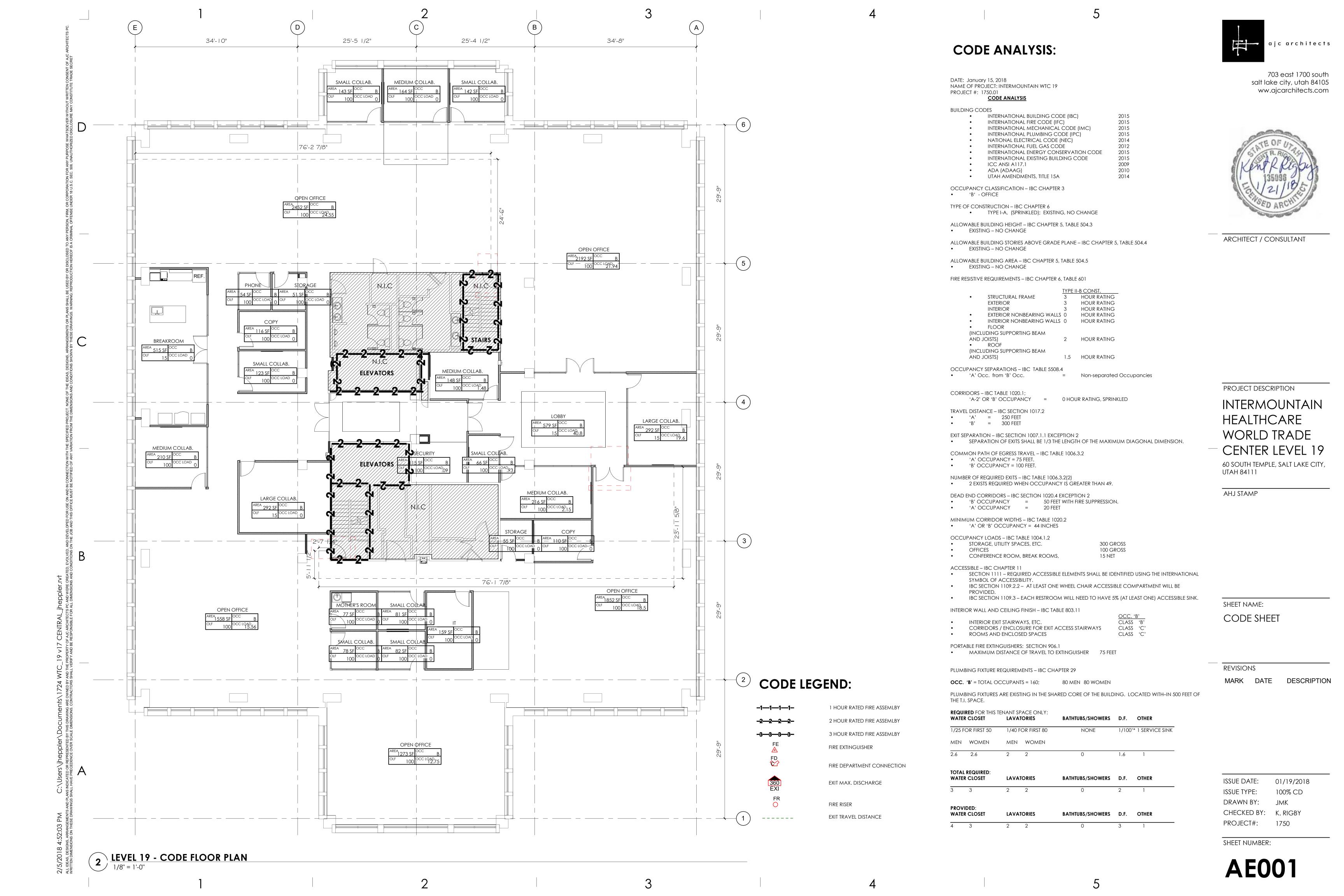
KEYED NOTES:

- EXISTING RECTANGULAR COLUMN TO REMAIN. PROTECT.
- WALL TO BE REMOVED SHOWN DASHED.
- EXISTING EXTERIOR WALL.
- PATCH AND REPAIR EXISTING WALL AS REQUIRED.
 - ALL CEILINGS TO BE REMOVED.
 - ALL FLOORING, BASE & ADHESIVE REMOVED. PREPARE FOR NEW FLOOR. SEE FINISH SCHEDULE & SPECIFICATIONS.

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CHECKED BY: K. RIGBY



PROJECT#: 1750



ajc architects

1750

OWNER INFORMATION

SHEET NAME:

UL LISTINGS

(Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards em 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.140 in. thick lead discs

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in, wide, max 10 ft long with a

14. **Lead Tabs** — (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

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STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProSTUD

2F. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. STUDCO BUILDING SYSTEMS - CROCSTUD

2H. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. TELLING INDUSTRIES L L C - TRUE-STUDTM

2I. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in, gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. TELLING INDUSTRIES L L C — Viper25™

2). Framing Members* - Metal Studs — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights TELLING INDUSTRIES L L C — Viper20™ 2K. Framing Members*— Steel Studs — As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2L. Framing Members* — Steel Studs — As an alternate to Item 2 - For use with Item 1, channel shaped studs, d from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. OLMAR SUPPLY INC - PRIMESTUD

2M. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only.) - (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in. 4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for

names of Classified companies. 4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, See **Batts and Blankets** (**BKNV or BZJZ**) **Categories** for names of Classified companies.

4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts

PLITEQ INC — Type GENIECLIP

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side in the factor of the standard of the stan joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E. b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge. 9. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. 10. Caulking and Sealants* - (Optional, not shown) - A bead of acoustical sealant applied around the partition

UNITED STATES GYPSUM CO — Type AS 11. **Lead Batten Strips** — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips could be strip and one of the strip.

batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints. 11A. **Lead Batten Strips** — (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in.

long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. 12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips

compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

amx thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screws at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item SE) and optional at remaining stud locations.

Last Updated on 2015-05-28

REVISIONS

DATE

ISSUE DATA

ISSUE DATE:

CHECKED BY: K. RIGBY

SHEET NUMBER:

ONLINE CERTIFICATIONS DIRECTORY Design No. U419

Page Bottom

BXUV.U419 Fire Resistance Ratings - ANSI/UL 263

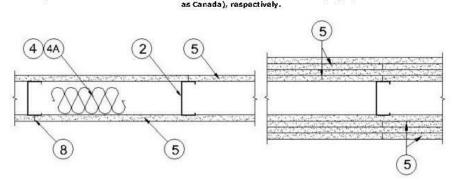
Design/System/Construction/Assembly Usage Disclaimer

product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K) * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such



and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F and 2G	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)		
1	3-1/2	1 layer, 5/8 in. thick	Optional		
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.		
1	1-5/8	1 layer, 3/4 in. thick	Optional		
2	1-5/8	2 layers, 1/2 in. thick	Optional		
2	1-5/8	2 layers, 5/8 in. thick	Optional		
2	3-1/2	1 layer, 3/4 in. thick	3 in.		
3	1-5/8	3 layers, 1/2 in. thick	Optional		
3	1-5/8	2 layers, 3/4 in. thick	Optional		
3	1-5/8	3 layers, 5/8 in. thick	Optional		
4	1-5/8	4 layers, 5/8 in. thick	Optional		
4	1-5/8	4 layers, 1/2 in. thick	Optional		
4	2-1/2	2 layers, 3/4 in. thick	2 in.		

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

COSADECV - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-

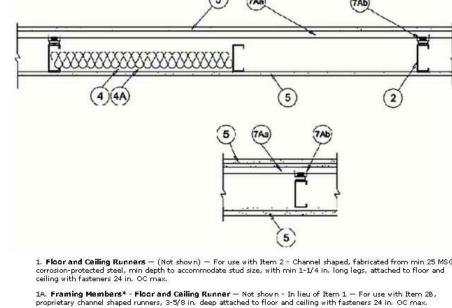
When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6. 5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs

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1A. Framing Members* - Floor and Ceiling Runner — Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25th Track

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25TH Track

PHILLIPS MEG CO L L C - Viper25TH Track

1B. Framing Members* - Floor and Cailing Runner — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20** Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20TH Track

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

PHILLIPS MFG CO L L C - Viper20TH Track

1C. Framing Members* - Floor and Cailing Runners - (Not shown) - In lieu of Item 1 - Channel shaped, attached

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

5C. Gypsum Board* — (For Use With Item 2B) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

UNITED STATES GYPSUM CO — Type SCX, SGX

RAY-BAR ENGINEERING CORP - Type RB-LBG

USG MEXICO S A DE C V − Type SCX.

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC - Type USGX.

UNITED STATES GYPSUM CO - Type USGX.

USG MEXICO S A DE C V — Type USGX.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO - Nelco

UNITED STATES GYPSUM CO -5/8 in. thick Type SCX, SGX.

5E. Gypsum Board* — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboa secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

5G. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2A- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1E. Framing Members* — Floor and Ceiling Runners — (Not shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS LLC - ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK1F. Framing Members* - Floor and Ceiling Runner — Not shown - In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricate rom min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC

SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* - Floor and Celling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

1I. Framing Members*—Floor and Ceiling Runners — (Not shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1). Framing Members* - Floor and Ceiling Runner — Not shown - In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. TELLING INDUSTRIES L L C — Viper25™ Track

1K. Framing Members* - Floor and Ceiling Runner — Not shown - In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — Viper20™ Track

4	1-5/8	4 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 1/2 in. thick	Optional	
	pe C, IP-X2 or IPC-A	AR;, 5/8 in. thick Type AR, C, IP-AF	R, IP-X1, IP-X2, IPC-AR, SC	CX, SHX,

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

UNITED STATES GYPSUM CO — Type ULX

5). Gypsum Board* — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 pan head placed on the face of studs and attached to the stud with construction adhesive and two 1 in, long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by ma

99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* - (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of all when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

5I. Gypsum Board* — (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULX

 $\mathbf{USG}\ \mathbf{MEXICO}\ \mathbf{S}\ \mathbf{A}\ \mathbf{DE}\ \mathbf{C}\ \mathbf{V} - \mathsf{Type}\ \mathsf{ULX}$

085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of

5K. Gypsum Board* — (Not Shown) - (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall												
Rating, Hr	Min Stud Depth, in. Items 2 through 2L	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)									
i	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.									
2	1-5/8	2 layers, 5/8 in. thick	Optional									
3	1-5/8	3 layers, 5/8 in. thick	Optional									

nd installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ $\textbf{CRACO MFG INC} - \mathsf{SmartStud25^{tM}}$ MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under

2A. Steel Studs - (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) Channel shaped, fabricate from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Steel Studs — (As an alternate to Item 2. For use with Items 5C, 5I or 5K) - Proprietar hannel shaped studs, 3-5/8 in, deep spaced a max of 24 in, OC. Studs to be cut 3/4 in less than the assembly heigh

tem 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2C. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

PHILLIPS MFG CO L L C — Viper20™

PHILLIPS MFG CO L L C - Viper25™

2D. Framing Members*— Steel Studs — In lieu of Item 2 - Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

UNITED METAL PRODUCTS INC — Type SUPREME Framing System 2E. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2) —For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING - ProSTUD

RAM SALES L L C — Ram ProSTUD

4 layers, 5/8 in. thick Optional **UNITED STATES GYPSUM CO** - 5/8 in. thick Type ULIX

6. Fasteners - (Not shown) - For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to 6. Fasteners — (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. 6A. Fasteners - (Not shown) - For use with Item 5K- Type S or S-12 steel screws used to attach panels to study or 6A. Fasteners — (Not shown) - For use with Item 5K- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long screws, spaced 16 in. OC. Second layer- 1-5/8 in. screws, spaced 8 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws, spaced 24 in. OC. Second layer- 3 in. long screws spaced 24 in. OC. Second layer- 3 in. long screws spaced 24 in. OC. Second layer- 3 in. long screws spaced 24 in. OC. Second layer- 3 in. long screws spaced 24

7. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E. b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in, wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75). 7B. Framing Members* - (Optional, Not Shown) - As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described belov

> described in Item 5. Not for use with Item 5A and 5E. b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

7C. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b.

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as

KINETICS NOISE CONTROL INC — Type Isomax

typsum board attached to furring channels as described in Item 6. Not for use with Item 5A and

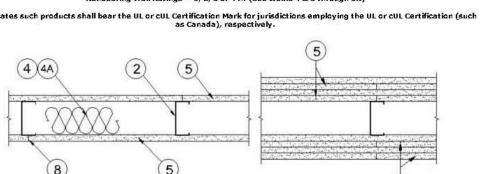
b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
 Authorities Having Jurisdiction should be consulted before construction.
 Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information incompliance concerning afternate materials and alternate

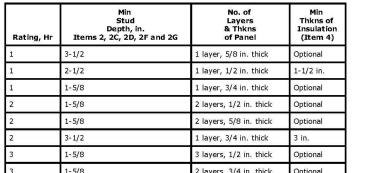
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419 May 28, 2015







X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

CGC INC - Type SHX.

USG MEXICO S A DE C V - Type SHX. 5B. **Gypsum Board*** — (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ¾ in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in.

В

EB MÉTAL INC — EB Stud

7D. Steel Framing Members — (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as

ISSUE TYPE: 100% CD DRAWN BY: AJC

System No. W-L-1027

March 24, 1999

F Rating — 2 Hr

T Rating — 0 Hr

SECTION A-A

1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board* — One or more layers of gypsum wallboard providing a min total thickness of 1 in. per side of wall. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 9-1/4 in.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed within opening. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduit or tubing may be used:

- A. Steel Pipe Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be min 1/4 in. to max 2-1/4 in.
- B. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 in. to max 2-1/4 in.
- C. Copper Tubing Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing. The annular space shall be min 1 in. to max 1-5/8 in.

D. Steel Pipe — Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be a min 1 in. to max 1-5/8 in.

3. Forming Material — Min 2-1/2 in. thickness of min 3.5 pcf mineral fiber insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

THERMAFIBER INC — Type SAF

4. Fill, Void or Cavity Material* — Sealant — Min 1 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed with water at a rate of 2.1 parts dry mix to 1 part water by weight in accordance with the accompanying installation instructions.

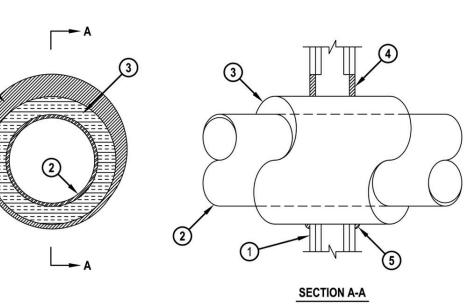
UNITED STATES GYPSUM CO — Type FC

*Bearing the UL Classification Mark

В

UL ASSEMBLY NO. W-L-5029 2 HR. / 1 HR. WALL PENETRATIONS - METAL PIPE W/ INSULATION \leq 12"Ø STL. - \leq 6"Ø COPPER - 2" INSUL.

> System No. W-L-5029 F Ratings — 1 and 2 Hr (See Item 1) T Ratings — 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3) L Rating At Ambient — 4 CFM/Sq Ft L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

- A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. B. Gypsum Board* — 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type
- and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides
- of wall assembly. The following types and sizes of metallic pipes or tubing may be used: A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pine Nom 12 in. diam (or smaller) cast or ductile iron pine. C. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
- D. Copper Pipe Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- 3. Pipe Covering* Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

Wall Assembly	Through	Penetrant	Pipe Covering	Annula	T Rating Hr			
Rating Hr	Type +	Max Diam In.	Thkns In.	Min In.	Max In.	1 I Natility I II		
1	Α	4	1	0	1-1/2	1/2		
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2		
1	Α	4	1-1/2	0	1-1/2	1		
1	Α	12	2	0	1-7/8	3/4 1 1		
1	B or C	6	2	0	1-7/8			
2	Α	4	1	0	1-1/2			
2	B or C	4	1 or 1-1/2	0	1-1/2			
2	B or C	6	2	0	1-7/8	1		
2 A		4	1-1/2	0	1-1/2	1-3/4		
2	2 A 12		2	0	1-7/8	1-1/2		
2	2 B or C 6			0	1-7/8	1		

+Indicates penetrant type as itemized in Item 2. A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.

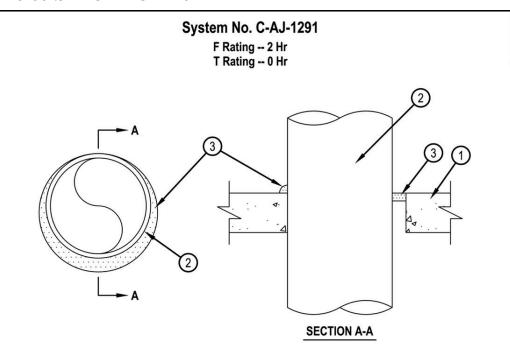
See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. l. Fill. Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall . At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe

covering/gypsum board interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant *Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of February 08, 2006



UL ASSEMBLY NO. C-AJ-1291 2 HR. FLOOR PENETRATION METAL PIPE UP TO 30"Ø - SCHEDULE 10



. Floor or Wall Assembly -- Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 30-7/8 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. Through-Penetrant -- One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. to max 7/8 in. Pipe or conduit to be rigidly supported on both sides of

- floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used: A. Steel Pipe -- Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe -- Nom 30 in, diam (or smaller) cast or ductile iron pipe.
- C. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe
- D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. E. Conduit -- Nom 6 in. diam (or smaller) steel conduit.
- F. Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) 3. Fill, Void or Cavity Material* -- Sealant -- Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both
- surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in, diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS -- ONE Sealant
- *Bearing the UL Classification Mark

FIRESTOP SYSTEMS

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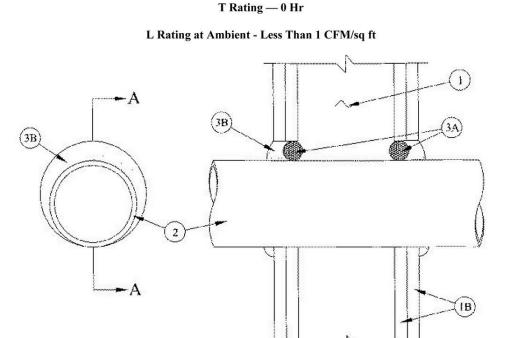
UL ASSEMBLY NO. W-L-7039 2 HR. / 1 HR. WALL PENETRATION METAL DUCT. 8" X 8" MAX. 16"Ø MAX.

Through-penetration Firestop Systems Certified for Canada

System No. W-L-7039

F Rating — 1 and 2 Hr (See Item 1)

September 24, 2010



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

SECTION A-A

B. Gypsum Board* — One or two layers of nom 1/2 or 5/8 in. (13 or 16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 17 in. (432 mm). Max area of rectangular opening is 81 in². (523 cm²) with max dimension of 9 in. (229 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct — One duct to be installed within the firestop system. The annular space shall be as specified in the Table below. Duct to be rigidly supported on both sides of wall assembly. The following types and sizes of duct may be used.

- A. Max 16 in. (406 mm) diam No. 24 gauge (or heavier) galv steel vent duct.
- B. Max 16 in. (406 mm) diam No. 24 gauge (or heavier) spiral wound galv steel duct.
- C. Max 8 in. by 8 in. (203 by 203 mm) No. 26 gauge (or heavier) galv steel duct.

Type of Duct	Max Duct Size	Annular Space
Round	16 in. (406 mm) diam	Min 0 in. (point contact) to max 1 in. (25 mm)
Rectangular	8 by 8 in. (203 by 203 mm)	Nom 1/2 in. (13 mm)

Firestop System — The firestop system shall consist of the following

- A. Packing Material (Optional) Foam backer rod firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
- B. Fill, Void or Cavity Material* (Caulk) Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. When annular space exceeds 1/2 in., min thickness of fill material is 5/8 in. (16 mm). For round ducts, additional fill material to be installed such that a min 3/8 in. crown is formed around the

TREMCO INC — TREMstop Intumescent Acrylic, FyreCaulk or TREMstop

*Bearing the UL Classification Mark

UL ASSEMBLY NO. C-AJ-1020 3 HR. FLOOR PENETRATION METAL PIPE < 6"Ø

Through-penetration Firestop Systems

System No. C-AJ-1020

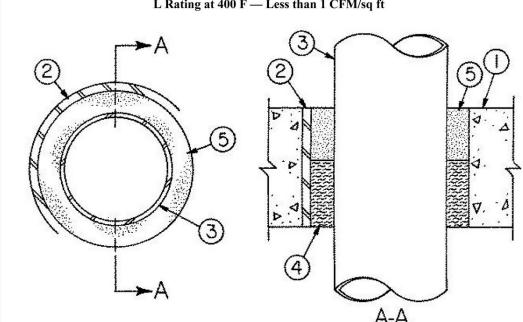
December 02, 2010

F Rating — 2 and 3 Hr (See Item 3)

T Rating — 0, 3/4 and 1 Hr (See Item 3)

L Rating at Ambient — Less than 1 CFM/sq ft

L Rating at 400 F — Less than 1 CFM/sq ft



1. Floor or Wall Assembly — Reinforced lightweight or normal weight (100-150 pcf) concrete having a min thickness as specified in the table below (Item 3). Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.

See Concrete Block (CAZT) category in the Fire Resistance Directory for names

2. Metallic Sleeve — (Optional) — Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into wall or floor assembly, flush with floor

or wall surfaces. 3. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be as specified in the table below. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic

C. Conduit — Nom 6 in. diam (or smaller) rigid galv steel

The F and T rating of the system is dependent upon the diam of the pipe or conduit and annular space between the pipe or conduit and the periphery of the opening as shown in the table below:

Floo r or Wall	Thkn Cond t		Min Annula r Space In.	Max Annula r Space In.	Min Fill Mtl Thkn s In.	Min Formin g Mtl Thkns In.	F Ratin g Hr	T Ratin g Hr									
F	3-3/4	1-1/2	3/8	2-1/8	1	2-3/4	2	0									
F	3-3/4	6	3/8	3/4	1	2-3/4	2	0									
F	3-3/4	1-1/2	3/8	1	2	1-3/4	2	0									
F	4-1/2						1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	3/8	2-1/8	1	3-1/2	3	3/4
F	4-1/2						3/8	3/4	1	3-1/2	3	0					
F	4-1/2	6	3/8	1	2	2-1/2	3	0									
W	5-1/2	1-1/2	3/8	2-1/8	1	3-1/2	3	3/4									
W	5-1/2	6	3/8	3/4	1	3-1/2	3	0									
W	6-1/2	1-1/2	3/8	2-1/8	2	2-1/2	3	1									
W	6-1/2	6	3/8	1	2	2-1/2	3	0									

into opening as a permanent form at the min thickness specified in the above table (Item 3). Forming material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill

THERMAFIBER INC — Type SAF

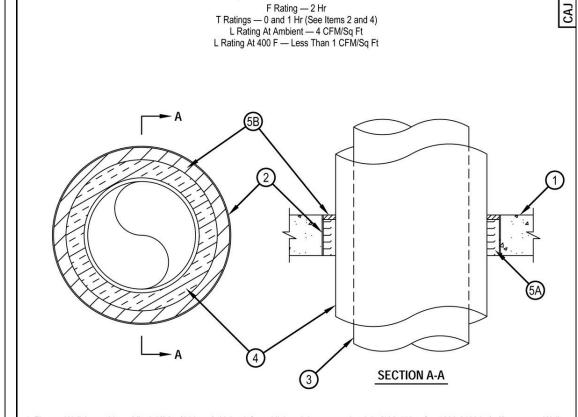
5. Fill, Void or Cavity Material* — Caulk — Min thickness of fill material as specified in the above table (Item 3) applied within the annulus, flush with top surface of floor or with both surfaces of wall.

UNITED STATES GYPSUM CO — Type AS

*Bearing the UL Classification Mark

UL ASSEMBLY NO. C-AJ-5093 2 HR. FLOOR PENETRATION METAL PIPE / INSULATED UP TO 12"Ø

System No. C-AJ-5091



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 19-1/2 in. (495 mm). See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.

2. Metallic Sleeve — (Optional) — Nom 20 in. (508 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr. 2A. Sheet Metal Sleeve — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to

the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor. 2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor. 3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to

be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used: A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to a max 2-1/4 in. (57 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.

See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke 4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max

12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 2-1/4 in. (57 mm). 5. Firestop System — The firestop system shall consist of the following: A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a

permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant *Bearing the UL Classification Mark

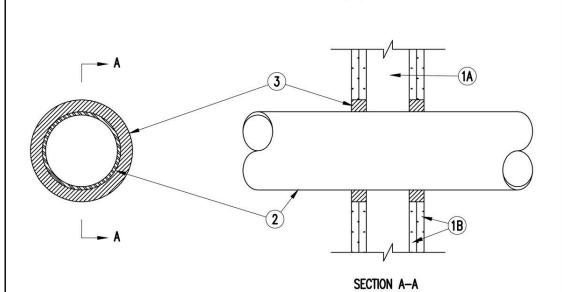


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UL ASSEMBLY NO. W-L-1054 2 HR. / 1 HR. WALL PENETRATION ≤ 30"Ø SCH. 10 PIPE

> System No. W-L-1054 F Ratings - 1 and 2 Hr (See Items 1 and 3) T Rating — 0 Hr L Rating At Ambient - Less Than 1 CFM/Sq Ft L Rating At 400 F - 4 CFM/Sq Ft



1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of

stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides. B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type,

thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly. 2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may

be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater

than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe. C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit. D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe. 3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces

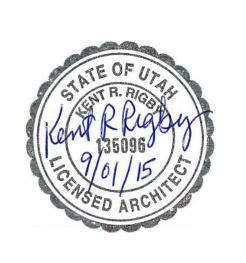
HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC -- FS-One Sealant *Bearing the UL Classification Mark

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ARCHITECT ajc architects

> 703 east 1700 south salt lake city, utah 84105 ph: 801.466.8818 fx: 801.466.4411 ajc@ajcarchitects.com



OWNER INFORMATION

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE CENTER LEVEL**

ου SOUTH TEMPLE, SALT LAKE CITY, **UTAH 84111**

SHEET NAME:

UL RATED PENETRATION **ASSEMBLIES**

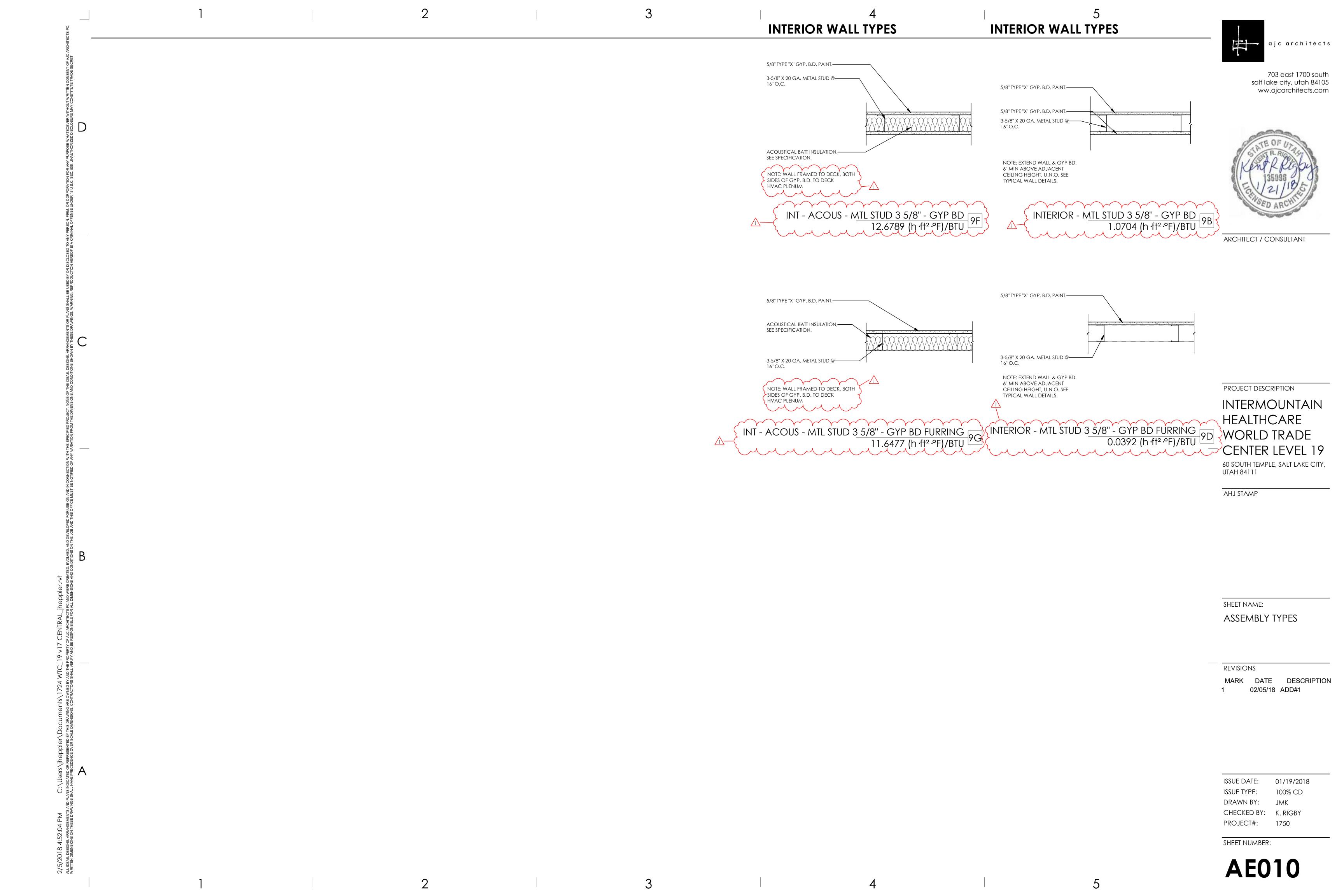
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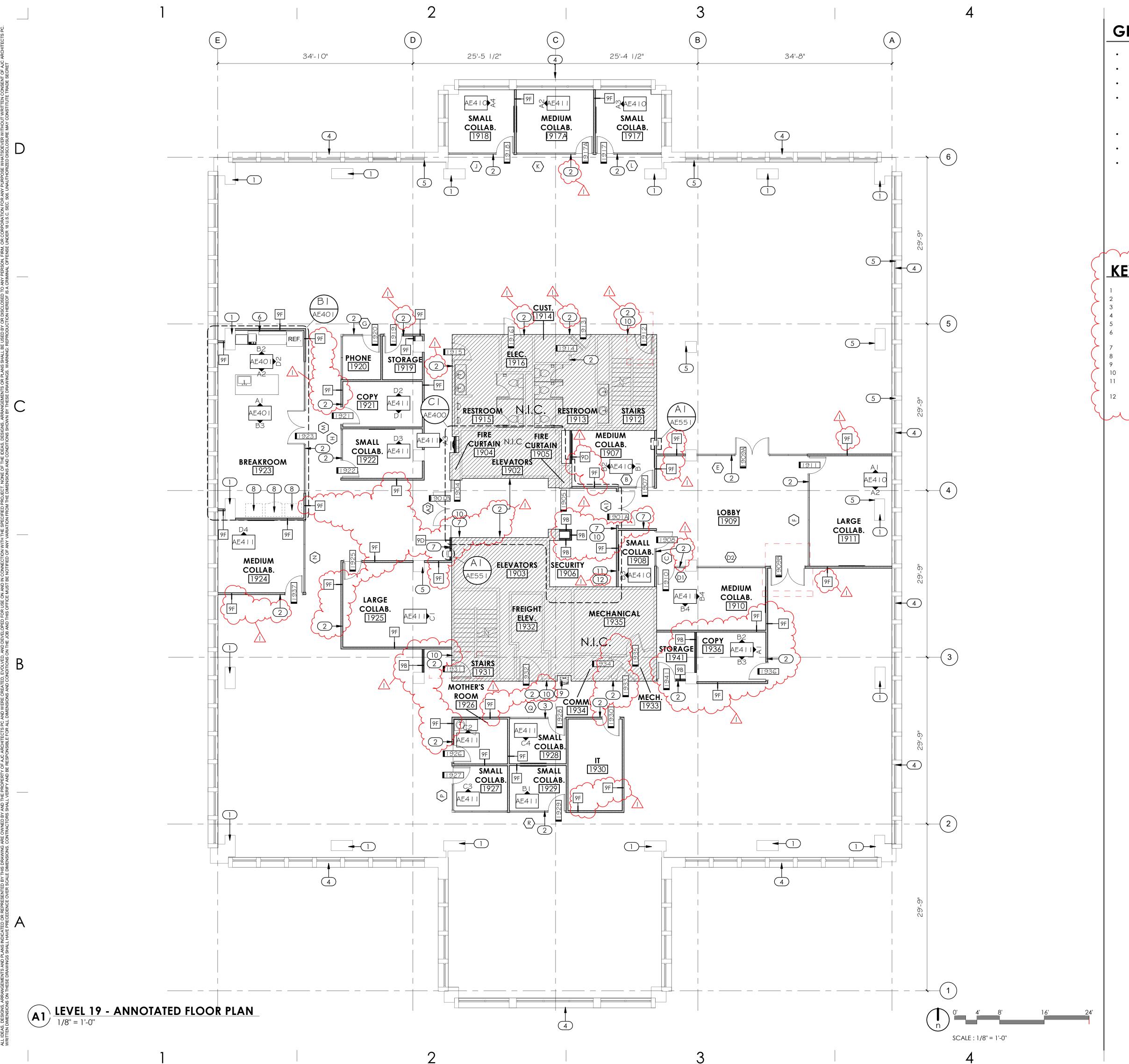
DATE

ISSUE DATA

ISSUE DATE:

ISSUE TYPE: 100% CD DRAWN BY: AJC CHECKED BY: K. RIGBY





- SEE SHEET G1002 FOR GENERAL NOTES.
- SEE TITLE SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE SHEET AE007 FOR UL PENETRATIONS.
- SEE SHEET AE530 FOR TYPICAL WALL FRAMING DETAILS
- FIELD VERIFY ALL EXISTING DIMENSIONS.



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ARCHITECT / CONSULTANT

KEYED NOTES:

EXISTING RECTANGULAR COLUMN TO REMAIN. PROTECT.

SIGNAGE. SEE SIGNAGE SCHEDULE & TYPES. **FURNISHINGS**

EXISTING EXTERIOR WALL.

PATCH AND REPAIR EXISTING WALL AS REQUIRED.

EXTENSION PANEL BETWEEN BASE CABINETS AND WALL TO SUPPORT 30 INCH

DEEP COUNTERTOP. SEE CABINET DETAILS. ADA AUTOMATIC DOOR OPENER.

VENDING MACHINE

DRINKING FOUNTAIN

CARD ACCESS CONTROL READER

EMERGENCY ALARM BUTTON, TO BE INSTALLED BELOW DESK, COORDINATE WITH FURN. SEE ELECTRICAL.

ADA AUTOMATIC DOOR OPENER, TO BE INSTALLED BELOW DESK, COORDINATE

WITH FURN. SEE ELECTRICAL.

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 - ANNOTATED FLOOR PLAN

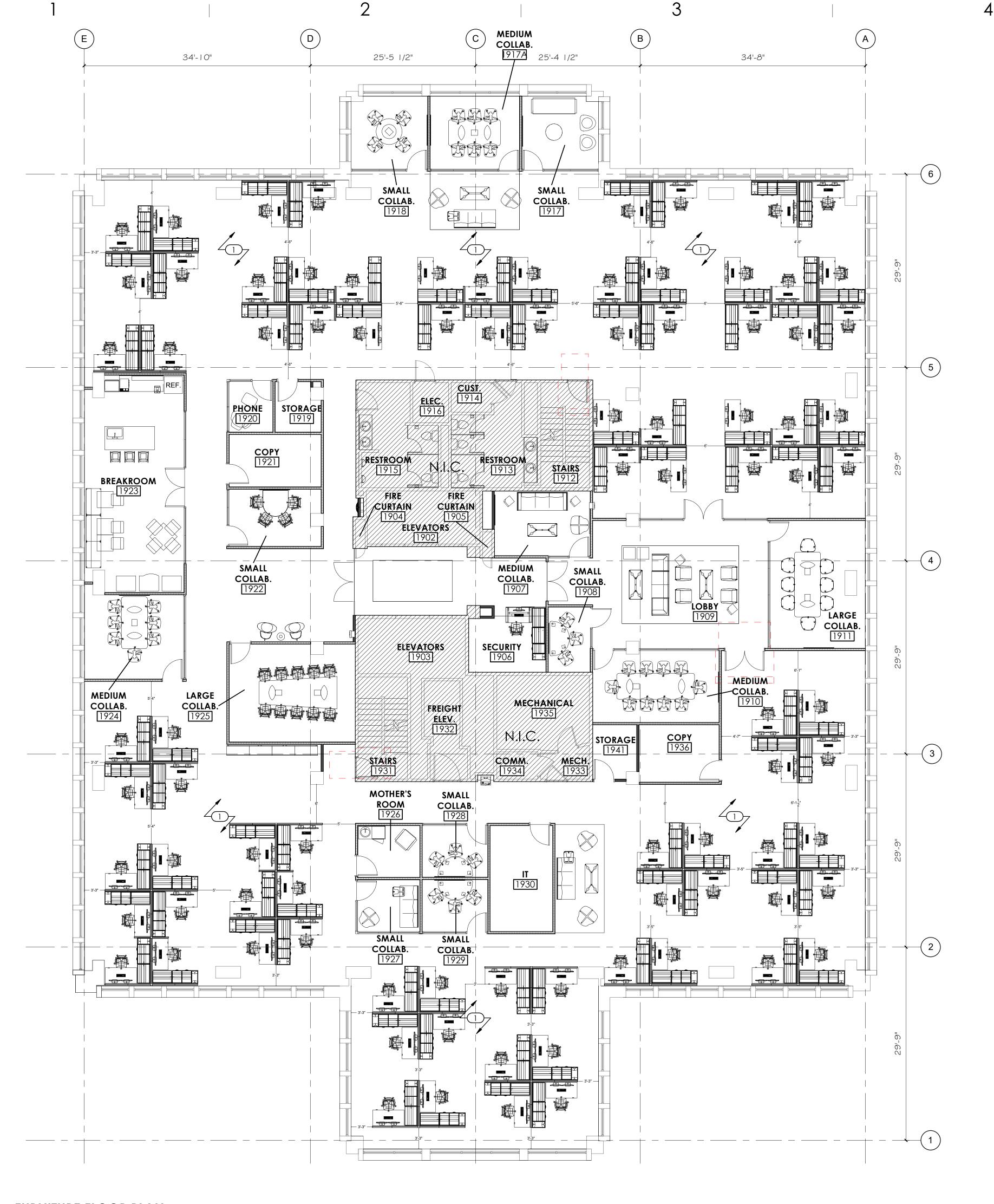
REVISIONS

02/05/18 ADD#1

ISSUE DATE: 01/19/2018 100% CD

CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:



5

GENERAL NOTES AND LEGEND:

- SEE SHEET G1002 FOR GENERAL NOTES.
- SEE TITLE SHEET FOR DRAWING INDEX.
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- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE SHEET AE007 FOR UL PENETRATIONS.
- SEE SHEET AE530 FOR TYPICAL WALL FRAMING DETAILS
- FIELD VERIFY ALL EXISTING DIMENSIONS.



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KEYED NOTES:

FURNITURE SHOWN FOR REFERENCE ONLY.

ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 - FURNITURE FLOOR PLAN

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: ISSUE TYPE:

DRAWN BY: JMK
CHECKED BY: K. RIGBY

01/19/2018

100% CD

PROJECT#: 1750

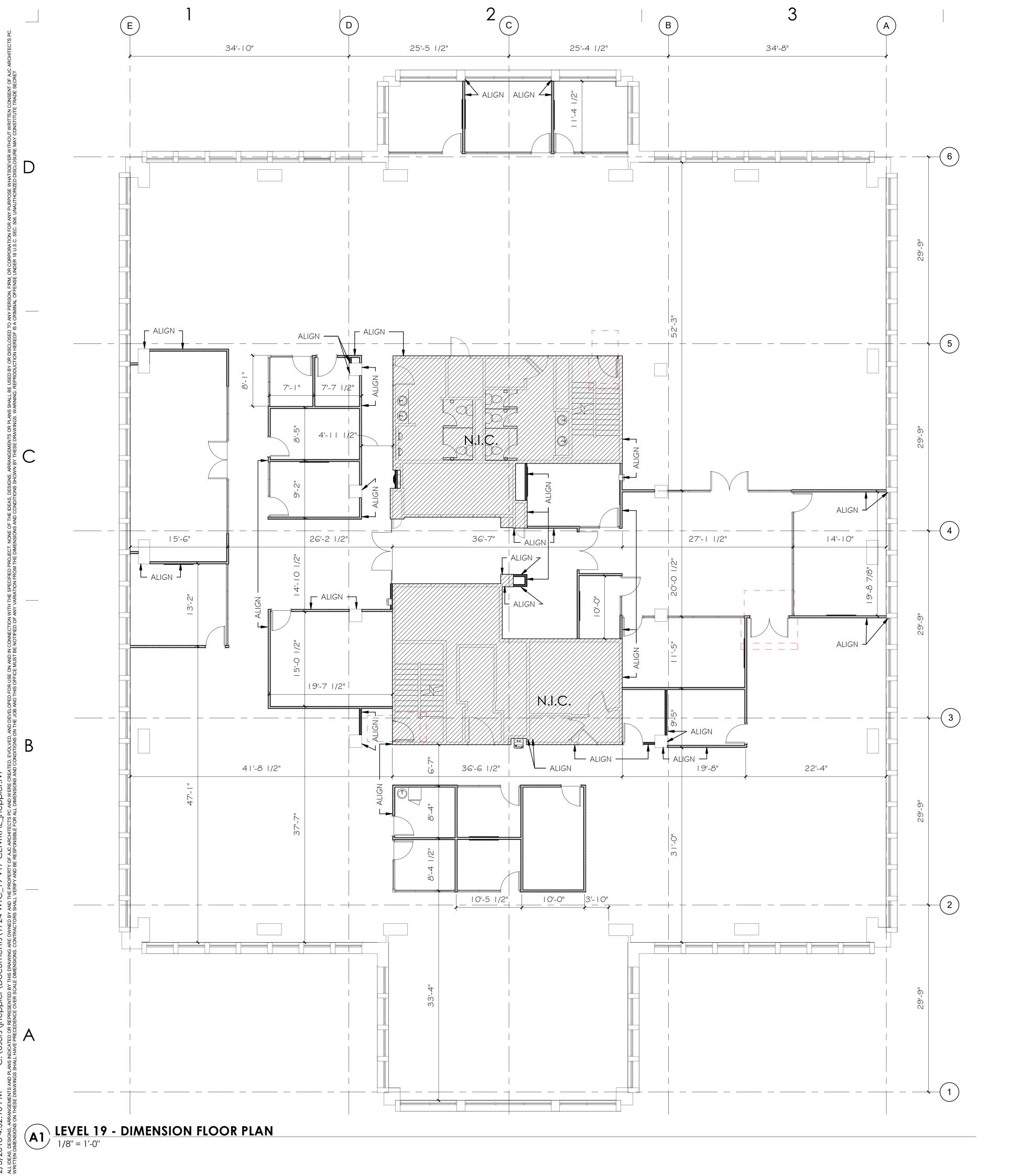
SHEET NUMBER:

LEVEL 19 - FURNITURE FLOOR PLAN

1/8" = 1'-0"

2

1



- SEE SHEET G1002 FOR GENERAL NOTES.
- SEE TITLE SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE SHEET AE007 FOR UL PENETRATIONS.
- SEE SHEET AE530 FOR TYPICAL WALL FRAMING DETAILS
- FIELD VERIFY ALL EXISTING DIMENSIONS.



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ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 - DIMENSION FLOOR PLAN

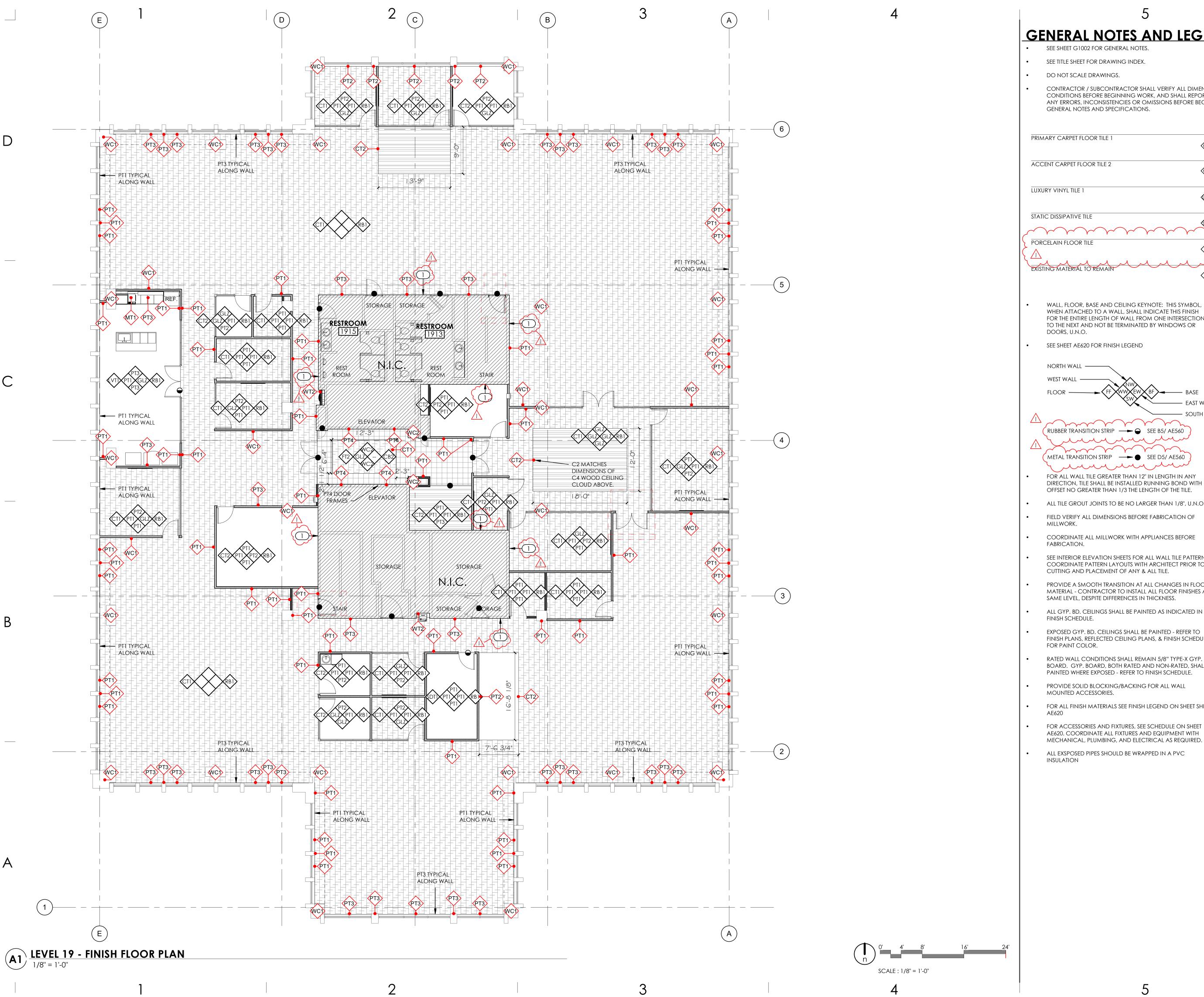
REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 100% CD DRAWN BY:

CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:



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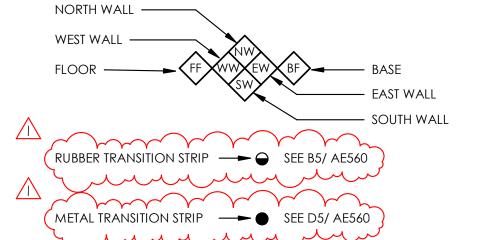
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ARCHITECT / CONSULTANT

- WALL, FLOOR, BASE AND CEILING KEYNOTE: THIS SYMBOL, WHEN ATTACHED TO A WALL, SHALL INDICATE THIS FINISH FOR THE ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR
- SEE SHEET AE620 FOR FINISH LEGEND



- FOR ALL WALL TILE GREATER THAN 12" IN LENGTH IN ANY DIRECTION, TILE SHALL BE INSTALLED RUNNING BOND WITH OFFSET NO GREATER THAN 1/3 THE LENGTH OF THE TILE.
- ALL TILE GROUT JOINTS TO BE NO LARGER THAN 1/8", U.N.O
- FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF
- COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE
- SEE INTERIOR ELEVATION SHEETS FOR ALL WALL TILE PATTERNS -COORDINATE PATTERN LAYOUTS WITH ARCHITECT PRIOR TO CUTTING AND PLACEMENT OF ANY & ALL TILE.
- PROVIDE A SMOOTH TRANSITION AT ALL CHANGES IN FLOOR MATERIAL - CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENCES IN THICKNESS.
- ALL GYP. BD. CEILINGS SHALL BE PAINTED AS INDICATED IN
- EXPOSED GYP. BD. CEILINGS SHALL BE PAINTED REFER TO FINISH PLANS, REFLECTED CEILING PLANS, & FINISH SCHEDULE
- RATED WALL CONDITIONS SHALL REMAIN 5/8" TYPE-X GYP. BOARD. GYP. BOARD, BOTH RATED AND NON-RATED, SHALL BE
- PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL
- FOR ALL FINISH MATERIALS SEE FINISH LEGEND ON SHEET SHEET
- FOR ACCESSORIES AND FIXTURES, SEE SCHEDULE ON SHEET AE620. COORDINATE ALL FIXTURES AND EQUIPMENT WITH
- ALL EXSPOSED PIPES SHOULD BE WRAPPED IN A PVC

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 - FINISH FLOOR PLAN

REVISIONS

MARK DATE DESCRIPTION 02/05/18 ADD#1

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: JMK

CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:



5

GENERAL NOTES AND LEGEND:

- SEE SHEET AE001 FOR GENERAL NOTES.
- SEE COVER SHEET FOR DRAWING INDEX
- DO NOT SCALE DRAWINGS.
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 BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS,
 INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES
 AND SPECIFICATIONS.
 - THIS IS A REFLECTED CEILING PLAN AND IS NOT INTENDED TO BE A LIGHTING PLAN. NO WALL MOUNTED LIGHTING FIXTURES OR OTHER WALL MOUNTED APPURTENANCES ARE SHOWN. SEE THE LIGHTING PLAN FOR ALL LIGHTING AND EGRESS SIGNS, SIZE AND TYPES OF ELECTRICAL FIXTURES ETC. SEE MECHANICAL PLANS FOR ALL CEILING MOUNTED DIFFUSERS /GRILLES ETC.

SURFACE MOUNTED OR LAY-IN CEILING
FLUORESCENT FIXTURE. SEE ELECTRICAL
PLAN FOR SIZE AND TYPE.

LINEAR LIGHTING FIXTURE. SEE
ELECTRICAL PLAN FOR SIZE AND TYPE.

SUSPENDED
FIXTURE
FIXTURE

FIXTURE

SURFACE MOUNTED LIGHTING FIXTURE.
SEE ELECTRICAL PLAN FOR SIZE AND TYPE.

DOWN LIGHT FIXTURES. SEE ELECTRICAL PLAN FOR SIZE AND TYPE.

RECESSED SURFACE CAN MOUNT

OCCUPANCY SENSOR. SEE ELECTRICAL PLAN.

LIFE SAFETY DEVICES. SEE ELECTRICAL PLAN. EXIT SIGN

LIFE SAFETY DEVICES. SEE ELECTRICAL F F F FV FIRE FIRE HORN ALARM

COORDINATE LOCATION W/ ELECTRICAL & OWNER.

AUDIO/VISUAL EQUIPMENT.

SUPPLY, RETURN & EXHAUST DIFFUSERS/GRILLES. SEE MECHANICAL. SUPPLY RETURN/ EXHAUST

CAMERA

FIXTURE

C2 GYP. CEILING

C3 4' X 2' SUSPENDED ACOUSTICAL PANEL CEILING

(EQ. ROCKFON KORAL, COLOR- WHITE)

C4 4' X 2' SUSPENDED 1" ACOUSTICAL
PANEL CEILING
(EQ. ROCKOPHON SONAR 20100)

C5 WOOD SLAT CEILING (EQ. 9 WOOD 1100) ajc architects

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ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

KEYED NOTES:

HORIZONTAL LOUVER BLINDS

END CAP TRIM
ACCOUSTICAL CEILING CONTINUES ABOVE WOOD GRILLE CLOUD

SHEET NAME:

LEVEL 19 - CEILING PLAN

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018
ISSUE TYPE: 100% CD
DRAWN BY: JMK

CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:

AE130

SCALE: 1/8" = 1'-0"

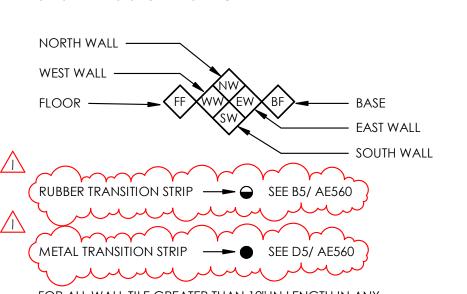
- SEE SHEET G1002 FOR GENERAL NOTES.
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FINISH LEGEND:

- WALL, FLOOR, BASE AND CEILING KEYNOTE: THIS SYMBOL, WHEN ATTACHED TO A WALL, SHALL INDICATE THIS FINISH FOR THE ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR DOORS, U.N.O.
- SEE SHEET AE620 FOR FINISH LEGEND



- DIRECTION, TILE SHALL BE INSTALLED RUNNING BOND WITH OFFSET NO GREATER THAN 1/3 THE LENGTH OF THE TILE.
- ALL TILE GROUT JOINTS TO BE NO LARGER THAN 1/8", U.N.O.
- FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF
- COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
- SEE INTERIOR ELEVATION SHEETS FOR ALL WALL TILE PATTERNS -COORDINATE PATTERN LAYOUTS WITH ARCHITECT PRIOR TO CUTTING AND PLACEMENT OF ANY & ALL TILE.
- PROVIDE A SMOOTH TRANSITION AT ALL CHANGES IN FLOOR MATERIAL - CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENCES IN THICKNESS.
- ALL GYP. BD. CEILINGS SHALL BE PAINTED AS INDICATED IN FINISH SCHEDULE.
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- RATED WALL CONDITIONS SHALL REMAIN 5/8" TYPE-X GYP. BOARD. GYP. BOARD, BOTH RATED AND NON-RATED, SHALL BE PAINTED WHERE EXPOSED - REFER TO FINISH SCHEDULE.
- PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED ACCESSORIES.
- FOR ALL FINISH MATERIALS SEE FINISH LEGEND ON SHEET SHEET
- FOR ACCESSORIES AND FIXTURES, SEE SCHEDULE ON SHEET AE620. COORDINATE ALL FIXTURES AND EQUIPMENT WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.
- ALL EXSPOSED PIPES SHOULD BE WRAPPED IN A PVC INSULATION

KEYED NOTES:

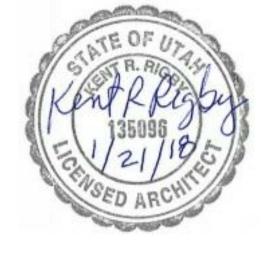
EXISTING CONDITIONS

NEW CONSTRUCTION. ELEVATOR CALL STATION. ELEVATOR INDICATOR. EXISTING SIGNAGE.

STAINLESS STEEL WRAP. WATER BOTTLE FILLER

EXISTING RECTANGULAR COLUMN.

STAINLESS STEEL DOOR FACING.



ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

ENLARGED ELEVATOR LOBBY PLANS & **ELEVATIONS**

REVISIONS

MARK DATE DESCRIPTION

02/05/18 ADD#1

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY

PROJECT#: 1750

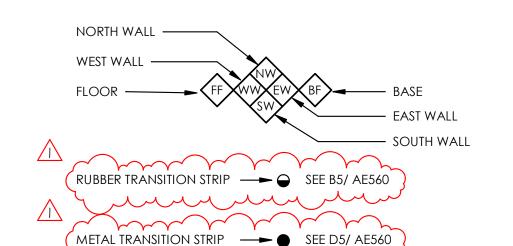
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FINISH LEGEND:

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- COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
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- PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED ACCESSORIES.
- FOR ALL FINISH MATERIALS SEE FINISH LEGEND ON SHEET SHEET AE620
- FOR ACCESSORIES AND FIXTURES, SEE SCHEDULE ON SHEET AE620. COORDINATE ALL FIXTURES AND EQUIPMENT WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.
- ALL EXSPOSED PIPES SHOULD BE WRAPPED IN A PVC INSULATION

REFRIGERATOR. MICROWAVE. VENDING MACHINE

KEYED NOTES:



ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

ENLARGED KITCHEN PLANS & ELEVATIONS

REVISIONS

MARK DATE DESCRIPTION 02/05/18 ADD#1

AT EXPOSED SIDE PROVIDE FILLER PANEL TO MATCH CABINET.

FLOATING SHELVES. SEE MILLWORK DETAILS.

DRAIN PAN REQUIRED. COUNTERTOP MOUNTED DRIP PAN, 28"X26" STAINLESS STEEL

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:

KEYED NOTES: 1 2'-10 1/4" B4) MEDIUM COLLAB. 1910 - SOUTH **B2** MEDIUM COLLAB. 1907 - WEST B1 MEDIUM COLLAB. 1907 - EAST B3 SMALL COLLAB. 1908 - WEST 2'-10 3/4" 3'-5 5/8" A1 LARGE COLLAB. 1911 - NORTH A3 SMALL COLLAB. 1917 - WEST A2 LARGE COLLAB. 1911 - SOUTH VIEW

1/4" = 1'-0" A4 SMALL COLLAB. 1918 - EAST 1/4" = 1'-0"

WALL MOUNTED MONITOR. PROVIDE SOLID BLOCKING/BACKING IN

GENERAL NOTES AND LEGEND:

- SEE SHEET G1002 FOR GENERAL NOTES.
- SEE TITLE SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.

DOORS, U.N.O.

NORTH WALL -

MILLWORK.

FABRICATION.

FINISH SCHEDULE.

FOR PAINT COLOR.

MOUNTED ACCESSORIES.

INSULATION

SEE SHEET AE620 FOR FINISH LEGEND

CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

WALLS FOR ANCHORING. SEE ELECTRICAL.

WALL, FLOOR, BASE AND CEILING KEYNOTE: THIS SYMBOL, WHEN ATTACHED TO A WALL, SHALL INDICATE THIS FINISH FOR THE ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR

(RUBBER TRANSITION STRIP → SEE B5/ AE560

METAL TRANSITION STRIP → SEE D5/ AE560

FOR ALL WALL TILE GREATER THAN 12" IN LENGTH IN ANY DIRECTION, TILE SHALL BE INSTALLED RUNNING BOND WITH OFFSET NO GREATER THAN 1/3 THE LENGTH OF THE TILE.

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FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF

COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE

CUTTING AND PLACEMENT OF ANY & ALL TILE.

SAME LEVEL, DESPITE DIFFERENCES IN THICKNESS.

SEE INTERIOR ELEVATION SHEETS FOR ALL WALL TILE PATTERNS -COORDINATE PATTERN LAYOUTS WITH ARCHITECT PRIOR TO

PROVIDE A SMOOTH TRANSITION AT ALL CHANGES IN FLOOR

ALL GYP. BD. CEILINGS SHALL BE PAINTED AS INDICATED IN

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FOR ALL FINISH MATERIALS SEE FINISH LEGEND ON SHEET SHEET

FOR ACCESSORIES AND FIXTURES, SEE SCHEDULE ON SHEET AE620. COORDINATE ALL FIXTURES AND EQUIPMENT WITH MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED.

PAINTED WHERE EXPOSED - REFER TO FINISH SCHEDULE.

PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL

ALL EXSPOSED PIPES SHOULD BE WRAPPED IN A PVC

MATERIAL - CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT

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ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

INTERIOR ELEVATIONS

REVISIONS

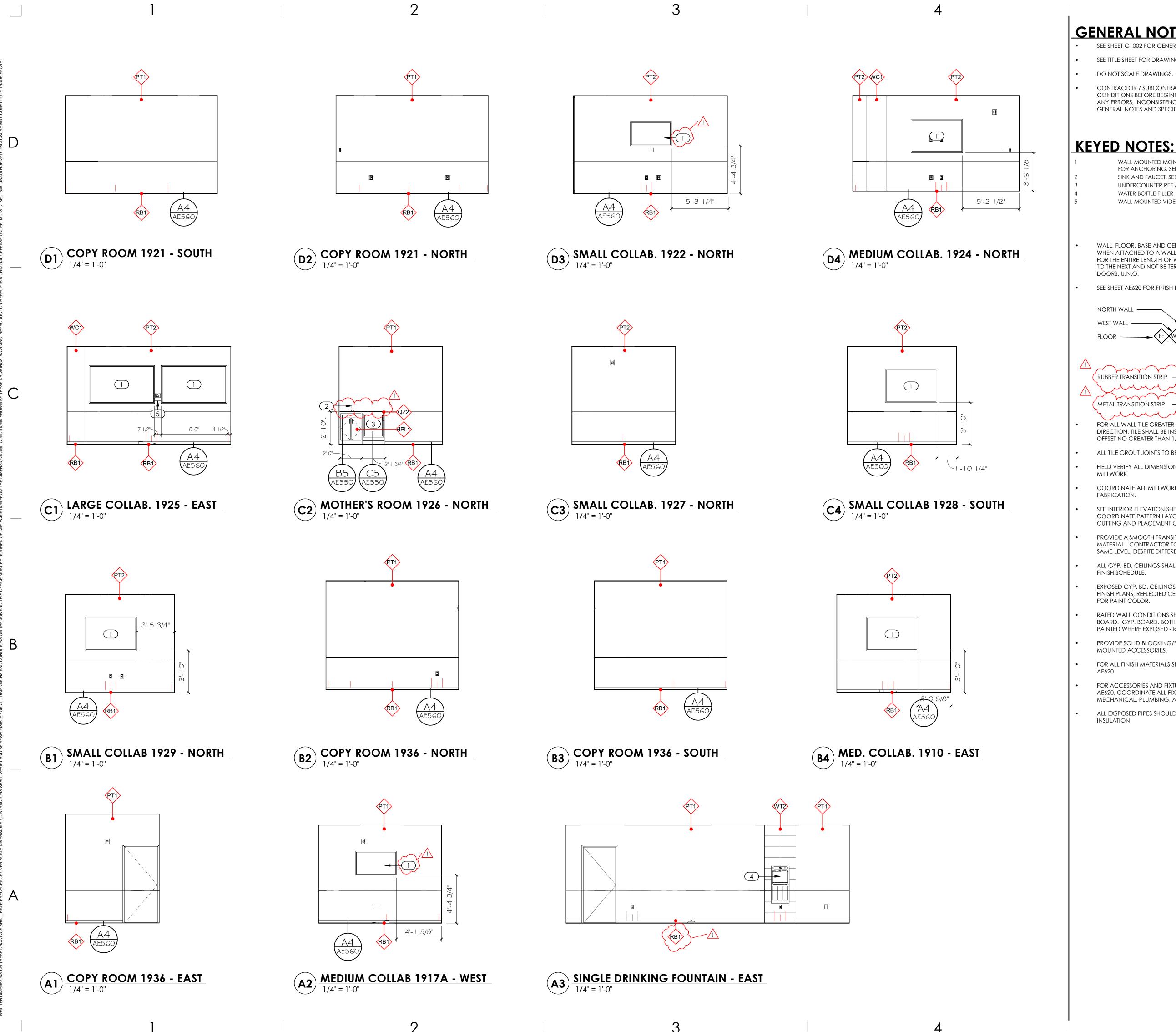
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PROJECT#: 1750

SHEET NUMBER:



WALL MOUNTED MONITOR. PROVIDE SOLID BLOCKING/BACKING IN WALLS

GENERAL NOTES AND LEGEND:

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FOR ANCHORING. SEE ELECTRICAL.

WATER BOTTLE FILLER

SINK AND FAUCET, SEE PLUMBING DRAWINGS.

WALL, FLOOR, BASE AND CEILING KEYNOTE: THIS SYMBOL,

WALL MOUNTED VIDEO CONFERENCING CAMERA

UNDERCOUNTER REF./FREEZER, SEE PLUMBING DRAWINGS



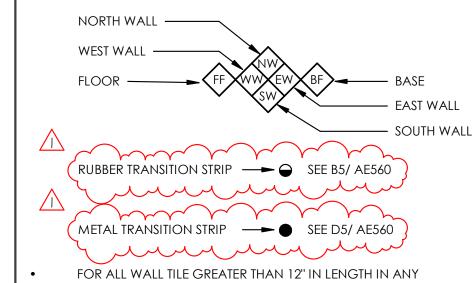
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WHEN ATTACHED TO A WALL, SHALL INDICATE THIS FINISH FOR THE ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR DOORS, U.N.O.

SEE SHEET AE620 FOR FINISH LEGEND



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INSULATION

ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

INTERIOR ELEVATIONS

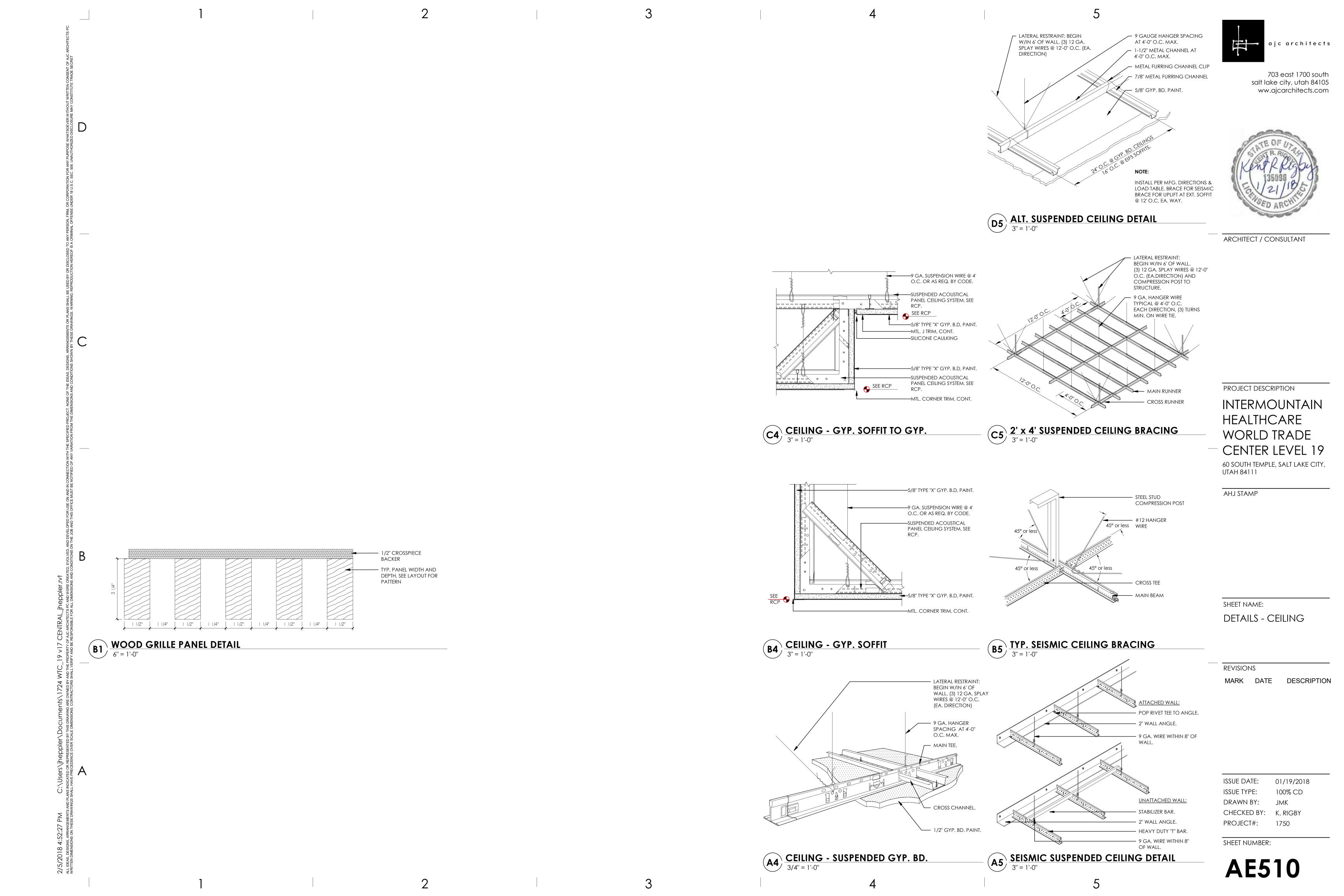
REVISIONS

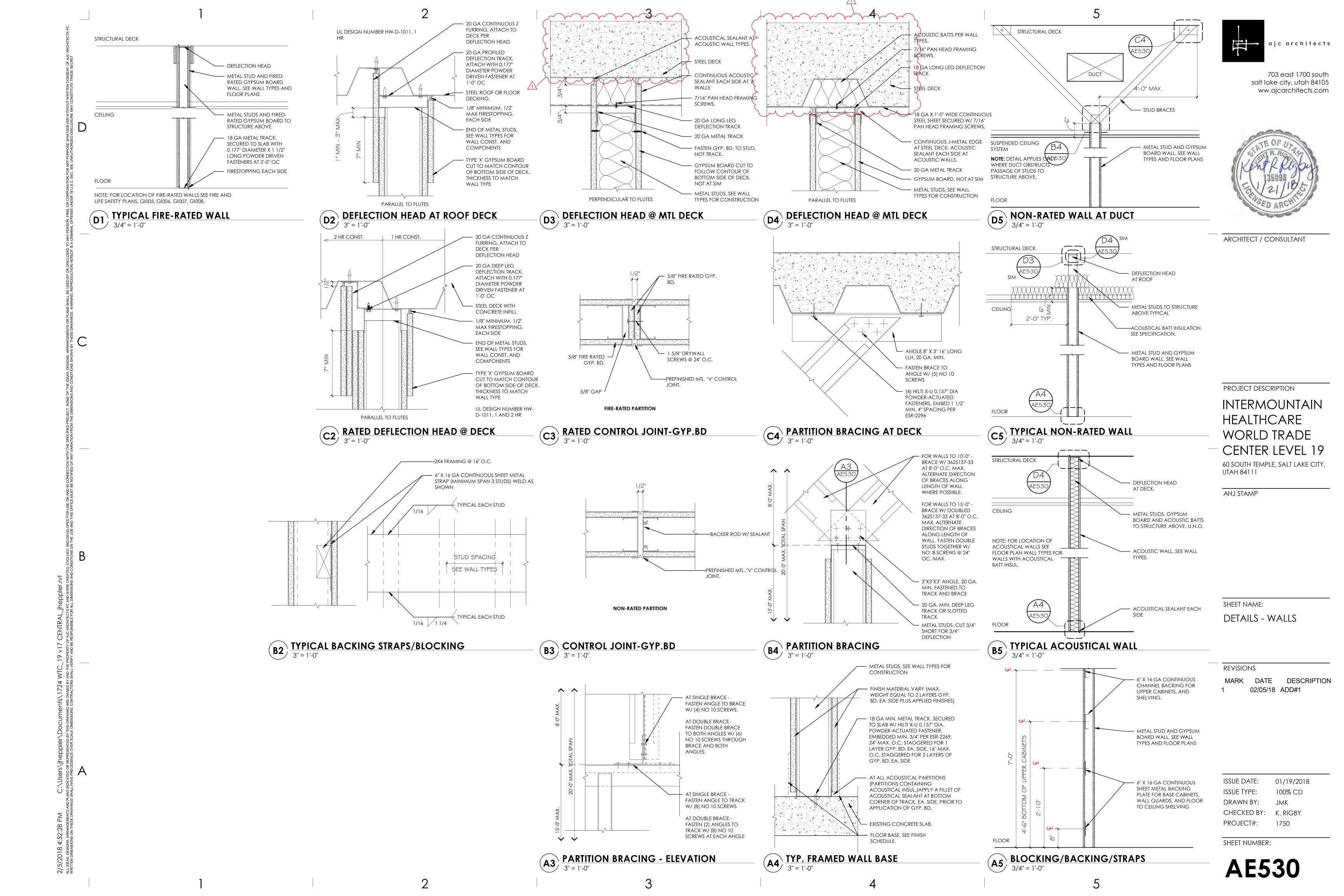
MARK DATE DESCRIPTION 02/05/18 ADD#1

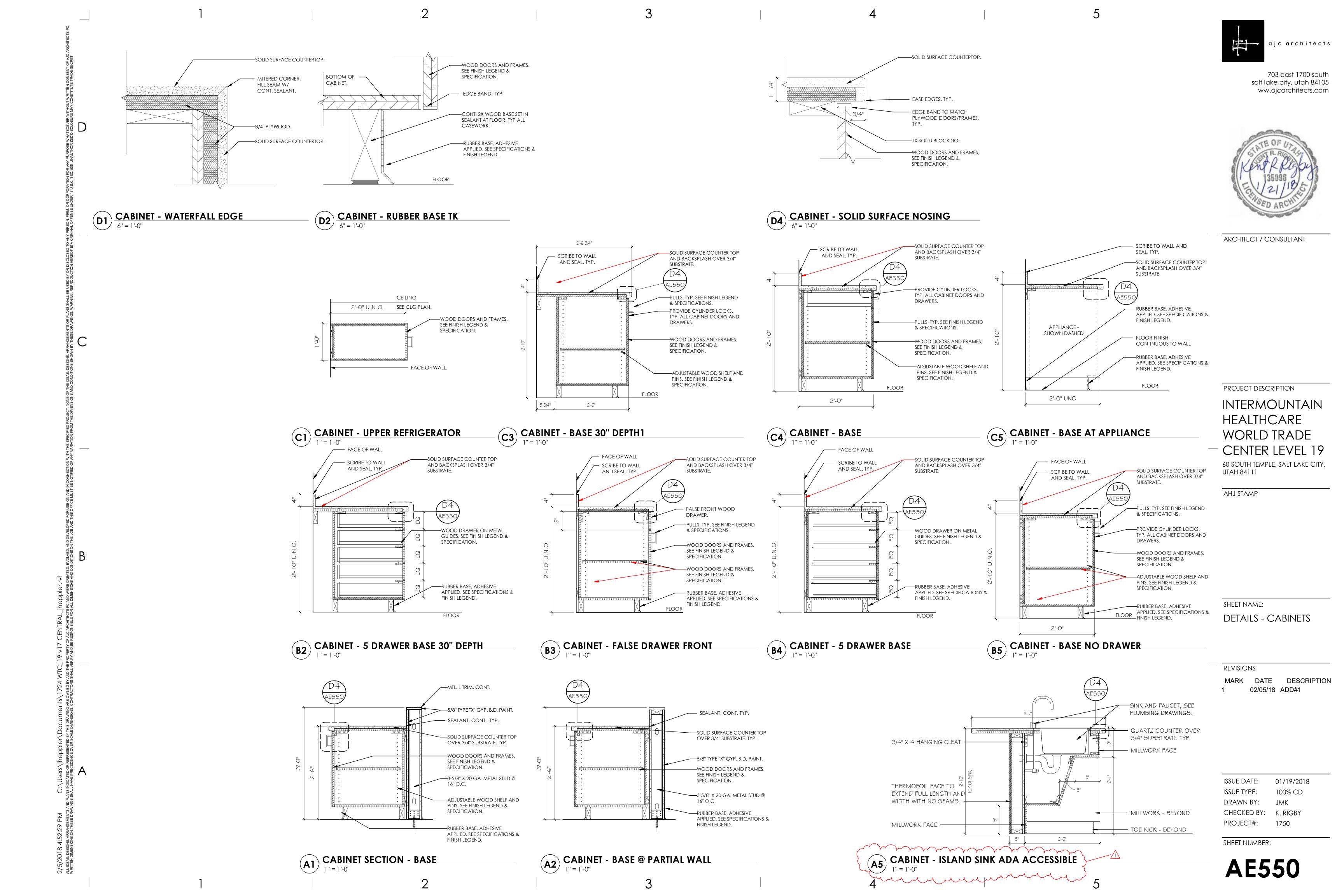
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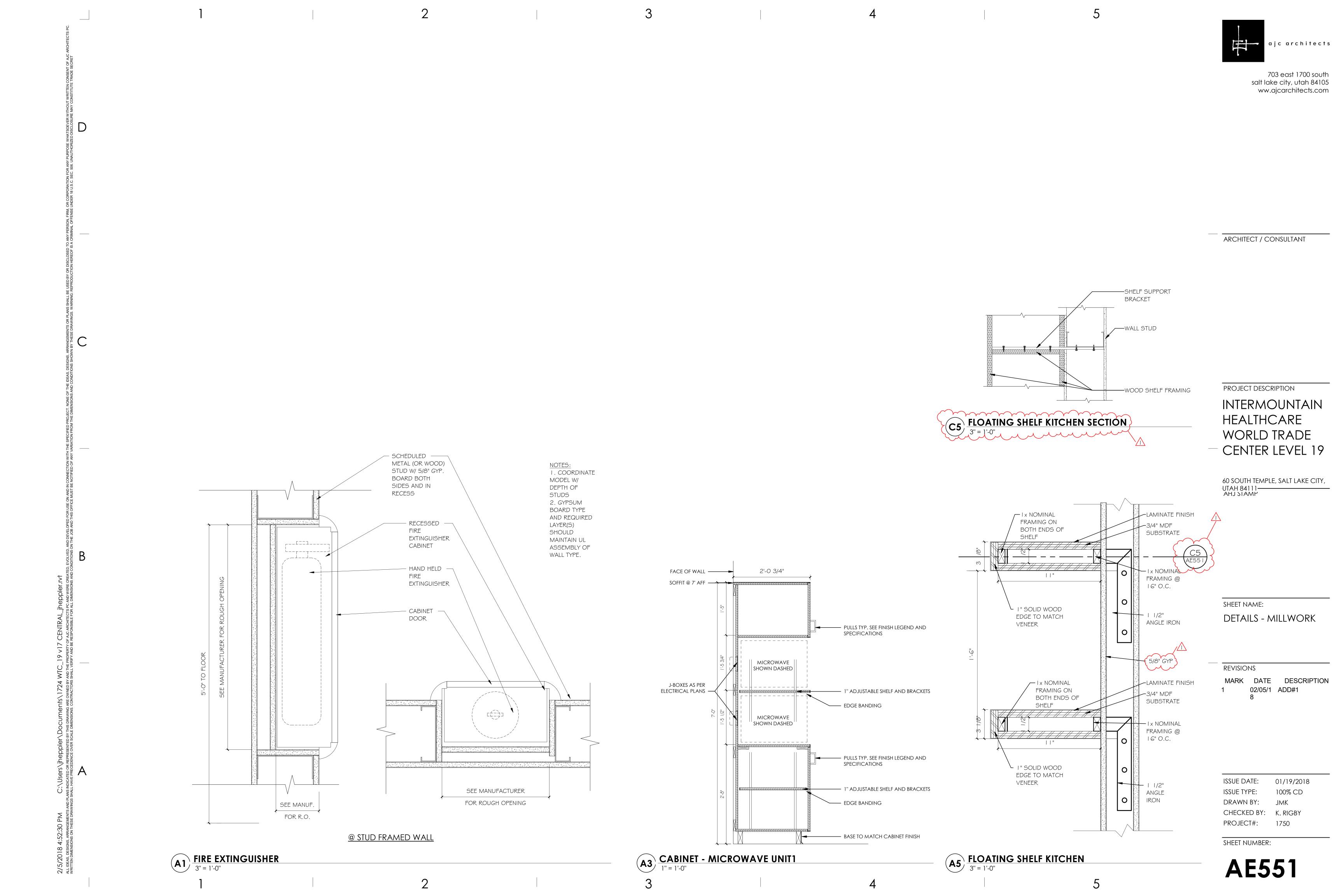
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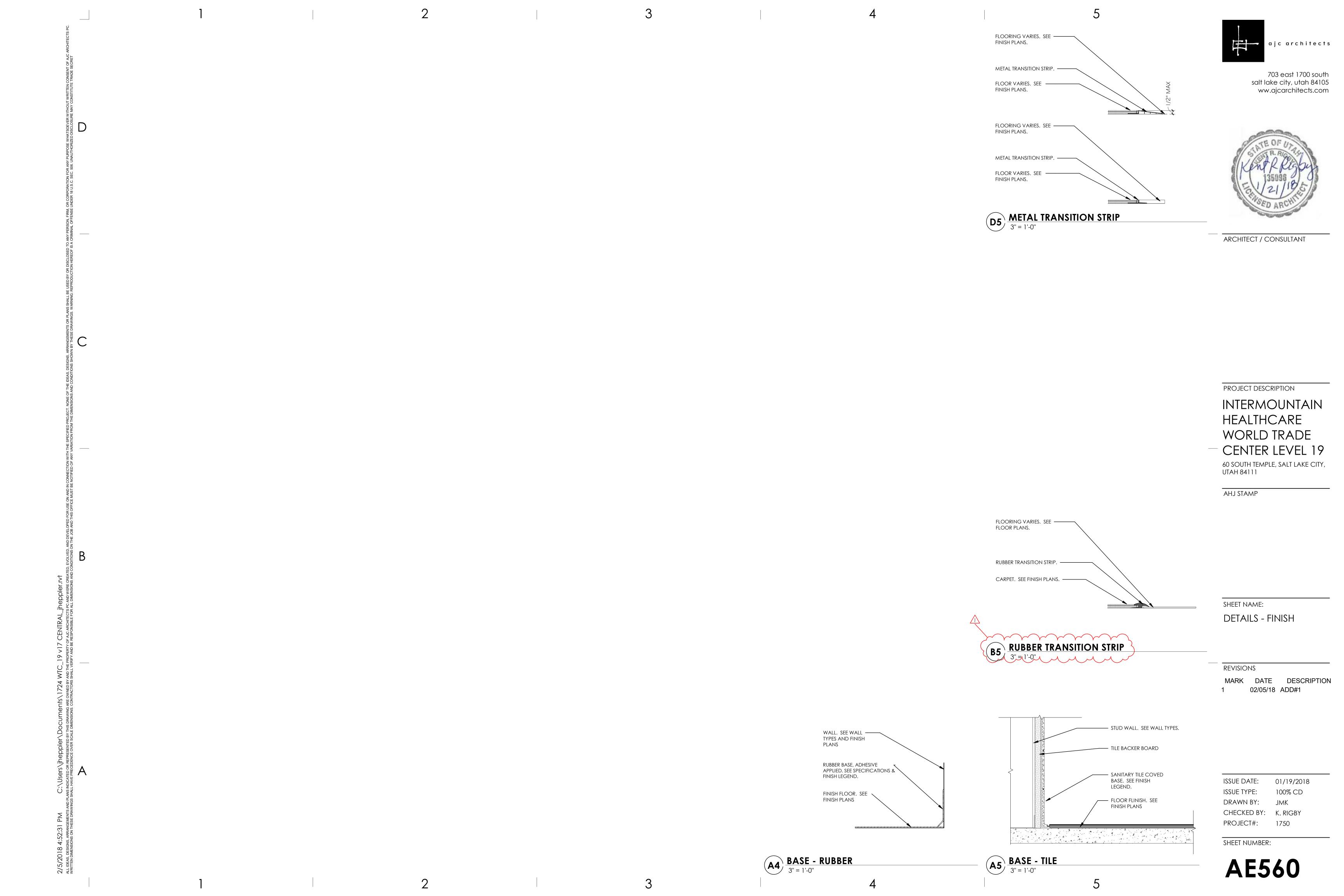
PROJECT#: 1750

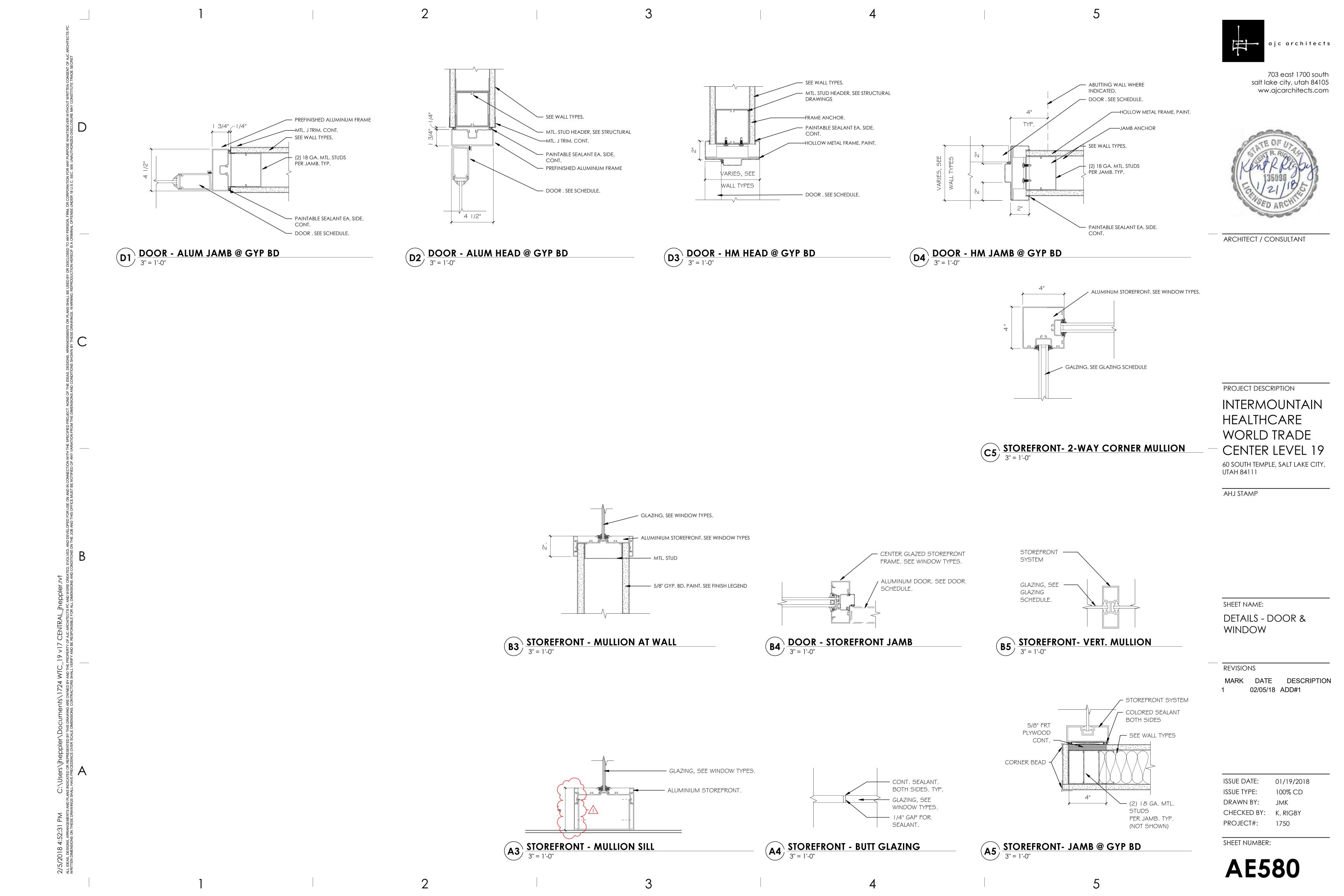


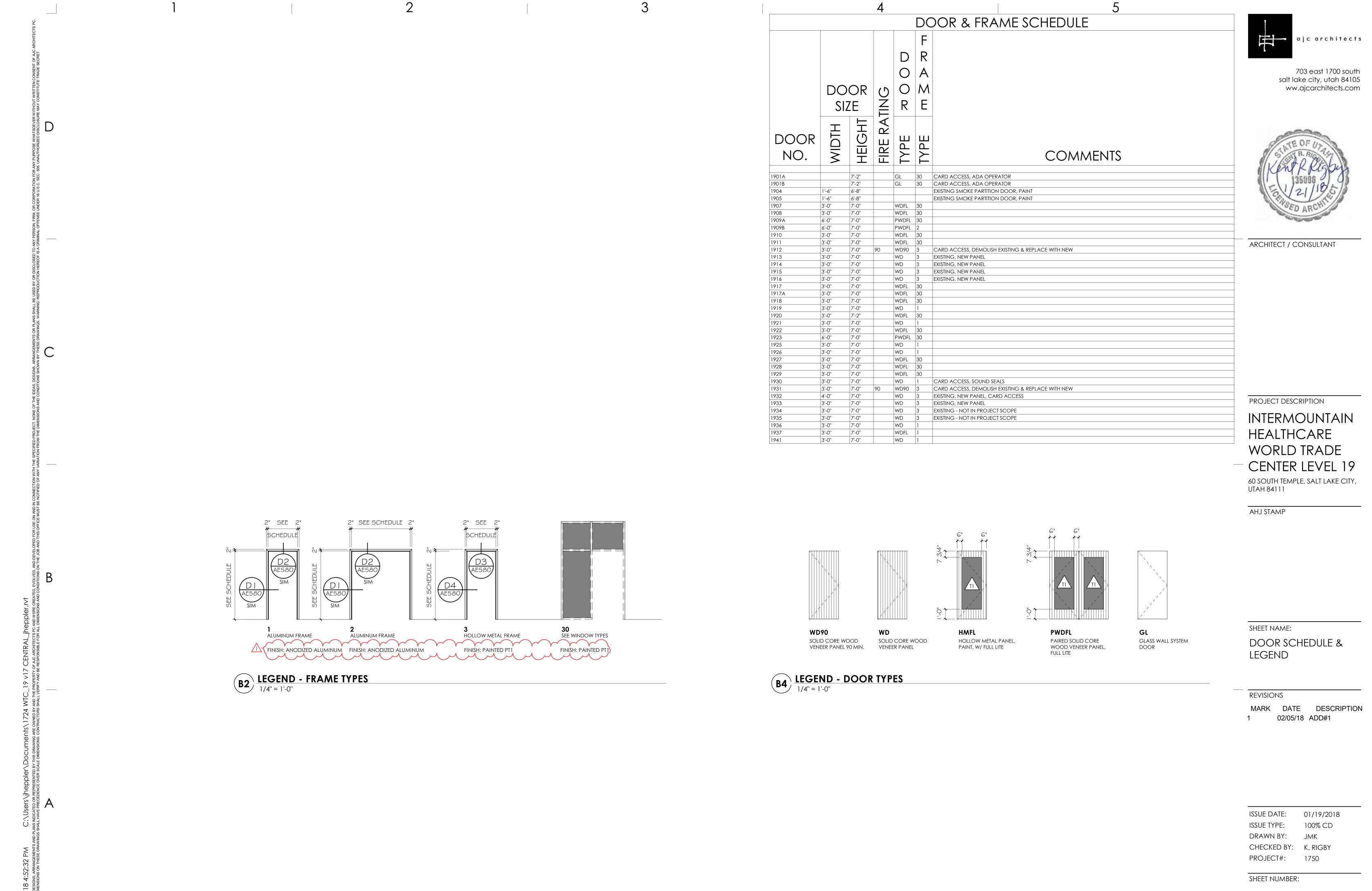














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GLAZING TYPE DESCRIPTION 1/2" TEMPERED CLEAR GLAZING

ARCHITECT / CONSULTANT

KEYED NOTES:

NOT USED

1/4" TEMPERED CLEAR GLAZING

PREPARE FLOOR SLAB AS NECESSARY FOR RECESSED DOOR HARDWARE. ANY PATCH & REPAIR OF CONCRETE SLAB SHOULD BE INCLUDED. PREPARE DOOR HEADER FRAMING AS NECESSARY FOR RECESSED DOOR

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

WINDOW TYPES

REVISIONS

02/05/18 ADD#1

ISSUE DATE: 01/19/2018 100% CD CHECKED BY: K. RIGBY PROJECT#: 1750

SHEET NUMBER:

	1 ADDITANCE & AC	CESSORY SCHEDIII E. 1750 INITEDIAOLINITAINI VI	3 BT 22 8, WTC 19						
		CESSORY SCHEDULE: 1750 INTERMOUNTAIN, KE LE & ACCESSORY SCHEDU							
	ACCESSORY	MANUFACTURER	ITEM: BOTTOM-FREEZER DRAWER REFRIGERATOR						
	REFRIGERATOR	GE	ITEM #: GDE21EMKES COLOR: SLATE						
	UNDER COUNTER REFRIGERATOR	GE	ITEM: GE COMPACT REFRIGERATOR ITEM #: GME04GLKLB						
			COLOR: CLEAN STEEL LOCATION: WTC MOTHER'S ROOM ITEM: MONOGRAM STAINLESS STEEL BEVERAGE CENTER						
	UNDER COUNTER REFRIGERATOR	GE MONOGRAM	ITEM #: ZDBR240HBS LOCATION: KBT MINI CAFÉ ITEM: ICE MACHINE/DISPENSER						
APPLIANCES	ICE MACHINE	MERIDIAN	ITEM#: HID540 FINISH: STAINLESS STEEL LOCATION: KBT & WTC KITCHEN						
	UNDER COUNTER ICE MACHINE	GE	ITEM: MONOGRAM ICE MAKER 15-INCH NUGGET ICE ITEM #: UNC15NJII FINISH: STAINLESS STEEL						
	MINI CAFÉ BUNN COFFEE MAKER	TBD	LOCATION: KBT MINI-CAFÉ TBD ITEM: GE PROFILE SERIES COUNTERTOP CONVECTION/						
	MICROWAVE	GE	MIRCROWAVE OVEN ITEM #: PEB9159EJES						
			COLOR: SLATE LOCATION: KBT & WTC KITCHEN						
	MIRROR	SEE SPECIFICATIONS.	SIZE TO FIT.						
		OLL OF LOTHOMO.	ITEM: LOW CAPACITY SURFACE- MOUNTED SEAT COVER						
	TOILET SEAT COVER DISPENSER	BRADLEY CORP	DISPENSER ITEM #: Model 5831						
	TOTELT SEXTENDIST ENGLIN	DIVIDLET CORT	COLOR: STAINLESS STEEL						
			ITEM: SINGLE JUMBO ROLL TOILET TISSUE DISPENSER						
	TOILET TISSUE DISPENSER	BRADLEY CORP	ITEM #: Model 5424 FINISH: STAINLESS STEEL						
			LOCATION: KBT RESTROOMS						
	CANITADY NADVINI DISDOSAL	DD A DI EV CODD	ITEM: CONTEMPORARY SERIES NAPKIN DISPOSAL ITEM #: Model 4737-11						
	SANITARY NAPKIN DISPOSAL	BRADLEY CORP	FINISH: SATIN FINISHED STAINLESS STEEL LOCATION: KBT WOMEN'S RESTROOM						
			ITEM: STAINLESS STEEL PARTITIONS, FLOOR MOUNTED						
	TOILET PARTITION	BRADLEY CORP	HARDWARE: STANDARD COLOR: SATIN BRUSHED STAINLESS STEEL						
	PIPE GAURDS	SEE SPECIFICATIONS.	LOCATION: KBT RESTROOMS						
			ITEM: ELKAY SOAP/LOTION DISPENSER ITEM #: LKGT1054						
	SOAP DISPENSER	ELKAY	COLOR: CHROME						
	GLASS MAGNETIC MARKER BOARD		LOCATION: KBT RESTROOMS ITEM: VERSA HARDWARE						
	MOUNTING KIT - FREESTANDING	3FORM	LOCATION: KBT 2226 & 2237						
	GLASS MAGNETIC MARKER BOARD	TBD	ITEM: APPLICATION: FREESTANDING						
	FREESTANDING		DIMENSIONS: 1/4" THICK 4'W X 6'H LOCATION: KBT 2226 & 2237						
	GLASS MARKER BOARD		ITEM: CLARUS FLOAT MARKER BOARD						
CCESSORIES	WITH CONCEALED MOUNTING HARDWARE	CLARUS GLASSBOARDS	DIMENSIONS: SEE DRAWINGS LOCATION: KBT 2214 & 2224						
	GLASS MARKER BOARD CONCEALED		ITEM: CLARUS FLOAT MAGNETIC MARKER BOARD CONCEALED HARDWARE						
	MOUNTING HARDWARE	CLARUS GLASSBOARDS	DIMENSIONS: SEE DRAWINGS						
			ITEM: KEY PAD						
	LOCKER LOCK	DIGILOCK	FINISH: BLACK LOCATION: KBT BREAKROOM LOCKERS						
			PRODUCT: RIVIERA ONE						
	1" PERFORATED METAL BLINDS	LEVOLOR	COLOR: MATCH EXISTING 6 TO 7 OPENNESS						
			PRODUCT: RB 500 ROLLER SHADES						
			BLACK OUT SHADE: SHEERWEAVE 7000 0% OPEN, COLOR:						
	DUAL MOTORIZED ROLLER SHADES	HUNTER DOUGLAS	GRAPHITE SECONDARY: SHEERWEAVE 2100 10% OPEN, COLOR:						
			BONE/PLATINUM						
			OPTIONS: MOTORIZED SERIES LOCATION: KBT BOARDROOMS						
	GRAB BAR 18"	BOBRICK	PRODUCT: 1 1/4" DIAMETER STRAIGHT GRAB BAR ITEM #: B-5806.99 x 18						
		DODRION	FINISH: STAINLESS STEEL, PEENED LOCATION: KBT RESTROOMS						
			ITEM: 1 1/4" DIAMETER STRAIGHT GRAB BAR						
	GRAB BAR 36"	BOBRICK	ITEM #: B-5806.99 x 36 COLOR: STAINLESS STEEL, PEENED						
			LOCATION: KBT RESTROOMS ITEM: 1 1/4" DIAMETER STRAIGHT GRAB BAR						
	GRAB BAR 42"	BOBRICK	ITEM #: B-5806.99 x 42						
	ON TO DAIN 42	DODRICK	FINISH: STAINLESS STEEL, PEENED LOCATION: KBT RESTROOMS						
	1	2	3						

FINISH LEGEND: 1750 INTERMOUNTAIN, KBT 22 & WTC 19 MANUFACTURER LEGENDOCATION DESCRIPTION PRODUCT COLLECTION: ROPPE WALL BASE SEE FINISH PLAN RUBBER BASE OLOR: DOLPHIN 129 COLLECTION: STONE ATTACHE STYLE: CONSULATE, COLORBODY PORCELAIN, ANTIQUE PORCELAIN COVE SEE FINISH PLAN COLOR: PREMIER GREY CS05, UNPOLISHED DALTILE * KBT 22 ONLY * TRIM STYLE: COVE BASE, S-36C9T SIZE: 6" X 12" BASE INSTALLATION METHOD: STANDARD MONOLITHIC COLLECTION: COLORBODY PORCELAIN STYLE: UNITY COLOR: P402 GRIGIO, UNPOLISHED PORCELAIN COVE SEE FINISH PLAN DALTILE * WTC 19 ONLY * TRIM STYLE: COVE BASE, S-36C9T SIZE: 6" X 12" INSTALLATION METHOD: STANDARD MONOLITHIC COLLECTION: HAND DRAWN STYLE: STIPPLE TILE 5T116 SHAW CONTRACT CT1 CARPET TILE SEE FINISH PLAN COLOR: SLATE 13585 SIZE: PLANK 18" X 36" INSTALLATION METHOD: ASHLAF COLLECTION: NOBLE MATERIALS STYLE: FORM TILE 5T136 CT2 CARPET TILE SHAW CONTRACT SEE FINISH PLAN COLOR: CORNERSTONE COPPER 33555 SIZE: SQUARE 24" X 24" INSTALLATION METHOD: ASHLAF COLLECTION: NATURE'S PATHS STYLE: WINDSOR OAK LVT1 LUXURY VINYL TILE MANNINGTON COMMERCIAL SEE FINISH PLAN COLOR: ASHEN SIZE: 6" X 36" INSTALLATION METHOD: ASHLAF
COLLECTION: ESD RUBBER STATIC CONTROL TILE FLOOR STYLE: FIESTA RUBBER TILE COLOR: MARRON 408 SDT1 STATIC DISSIPATIVE TILE ROPPE SEE FINISH PLAN SIZE: SQUARE 24" X 24" INSTALLATION METHOD: STANDARD MONOLITHIC COLLECTION: STONE ATTACHE STYLE: CONSULATE, COLORBODY PORCELAIN, ANTIQUE SEE FINISH PLAN COLOR: PREMIER GREY CS05, UNPOLISHED PORCELAIN FLOOR DALTILE * KBT 22 ONLY * SIZE: 24" X 48" JASTALLATION METHOD: ASHLAR GROUT: MAPEI - 02 PEWTER COLLECTION COLORBODY PORCELAIN STYLE: UNITY PORCELAIN FLOOR SEE FINISH PLAN COLOR: P402 GRIGIO, POLISHED DALTILE * WTC 19 ONLY * SIZE: 12" X 12" JUSTALLATION METHOD: STANDARD MONOLITHIC GROUT: MAPEI - 02 PEWTER SHERWIN WILLIAMS EE FINISH PLAN PEARLY WHITE SW 7009, SEE SPEC FOR DETAILS SHERWIN WILLIAMS EE FINISH PLAN DOVETAIL SW 7018, SEE SPEC FOR DETAILS PAINT PT3 PAINT SHERWIN WILLIAMS EE FINISH PLAN MINERAL GRAY SW 2740, SEE SPEC FOR DETAILS PT4 PAINT SHERWIN WILLIAMS EPHANT EAR SW9168, SEE SPEC FOR DETAILS * WTC 19 ONLY * PATTERN: NOOK 399913 WC1 VINYL WALLCOVERING MAHARAM SEE FINISH PLAN COLOR: ROCK 004 COLLECTION: QUARTZITE STACKED STONE QUARTZITE STACKED SEE FINISH PLAN COLOR: \$703 HAIKOU GREY DALTILE * KBT 22 ONLY * SIZE: TRREGULAR
GROUT: MAPEL - 02 PEWTER
COLLECTION LIMESTONE MOSAIC PATTERN: POLISHED MODERN LIMESTONE MOSAIC DALTILE SEE FINISH PLAN COLOR: L191 CHENILLE WHITE SIZE: IRREGULAR GROUT: MAPEI - 02 PEWTER COLLECTION STONE ATTACHE STYLE: HAUT MONDE, COLORBODY PORCELAIN SEE FINISH PLAN COLOR: ELITE GREY HM05, UNPOLISHED WT1 PORCELAIN WALL TILE DALTILE * KBT 22 ONLY * SIZE: 12" X 24" INSTALLATION METHOD: ASHLAR GROUT: MAPEL - 02 PEWTERS STYLE: GLAZED PORCELAIN COLOR: DEGREES SILVER VL71 SEE FINISH PLAN WT2 PORCELAIN WALL TILE DALTILE SIZE: 12" X 12" JUSTALLATION METHOD: STANDARD MONOLITHIC GROUT: MAPEI - 02 PEWTER COLLECTION: VARIA ECORÉSIN, NATURALS ER1 ECORESIN PANEL 3 FORM PATTERN/COLOR: STACK FADE * KBT 22 ONLY * COLLECTION: ORGANICS PATTERN: ASIAN GRASS FROSTED GLASS SEE FINISH PLAN SKYLINE DESIGN TRANSLUCENCY: ECO ETCH | ECO-ETCH GRADIENT W/ GRAPHIC DESIGN * KBT 22 ONLY * GLASS THICKNESS: 1/2" SIZE: VARIES WITH APPLICATION PATTERN: TIRAZ 394502 SEE FINISH PLAN WC2 VINYL WALLCOVERING MAHARAM * WTC 19 ONLY * COLLECTION: MARBLE COLLECTION STYLE: ELEGANCE, POLISHED COLOR: FIRST SNOW, ELEGANCE M190 SEE FINISH PLAN MS1 MARBLE TILE DALTILE SIZE: MISSION WALL: 3' X 5' SLABS, AWARD WALL: CUT TO FIT A * KBT 22 ONLY * NEEDED, 3CM THICKNESS JUSTALLATION METHOD: STANDARD MONOLITHIC GROUT: MAPEI - 02 PEWTER SPECIES: ENGINEERED WALNUT VENEER (QUARTER-SEE FINISH PLAN WV1 WOOD VENEER * KBT 22 ONLY * FINISH: STAINED TO MATCH ARCHITECT'S SAMPLE PATTERN/COLOR: ABSOLUTE ACAJOU WY16(HIGH PRESSURE HPL1 LAMINATE SEE FINISH PLAN TEXTURE: SUEDE SD SEE FINISH PLAN SERIES: OCEAN QZ1 QUARTZ COUNTERTOP SILESTONE * KBT 22 ONLY * COLOR: ARTIC SEE FINISH PLAN SERIES: BASIQ QZ2 QUARTZ COUNTERTOP SILESTONE * WTC 19 ONLY * COLOR: BLANCO CITY SCHLUTER ITEM: SCHLUTER RONDEC-DB SPECIES: ENGINEERED WALNUT VENEER (QUARTER-*KBT 22 ONLY * WV1 WOOD VENEER FINISH: STAINED TO MATCH ARCHITECT'S SAMPLE BOARDROOM Y BENCH FRAME SEE FINISH PLAN PATTERN: RISE 3809 *KBT 22 ONLY * COLOR: CAROB 104 FB1 UPHOLSTERY FABRIC DESIGNTEX



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ARCHITECT / CONSULTANT

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** CENTER LEVEL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

FINISH & ACCESSORY SCHEDULE

REVISIONS

MARK DATE DESCRIPTION 02/05/18 ADD#1

ISSUE DATE:

ISSUE TYPE: 100% CD DRAWN BY: JMK CHECKED BY: K. RIGBY

PROJECT#: 1750

01/19/2018

SHEET NUMBER:

FB2 UPHOLSTERY FABRIC

WOOD GRILLE

CEILING

CEILING CLOUDS

PAINTED GYPSUM

BOARDROOM

SEE FINISH PLAN

* KBT 22 ONLY*

BOARDROOM

SINIS: 100 WOO GRILLS

SEE CEILING PLAN | EDGE PROFILE: SQUARE

SEE CEILING PLAN DETAILS

WOOD VENEER PANEL OSHKOSH DOOR COMPANY

HBF TEXTILES

9 WOOD

SEE DOOR

SCHEDULE

PATTERN: MOVING BLANKET 925

STYLE: 1100 CROSS PIECE GRILLE

SIZE: 24" PANEL WIDTH, 48" PANEL LENGTH

ASSEMBLY STYLE: CROSS PIECE BACKER

FINISH: STAINED TO MATCH ARCHITECT'S SAMPLE

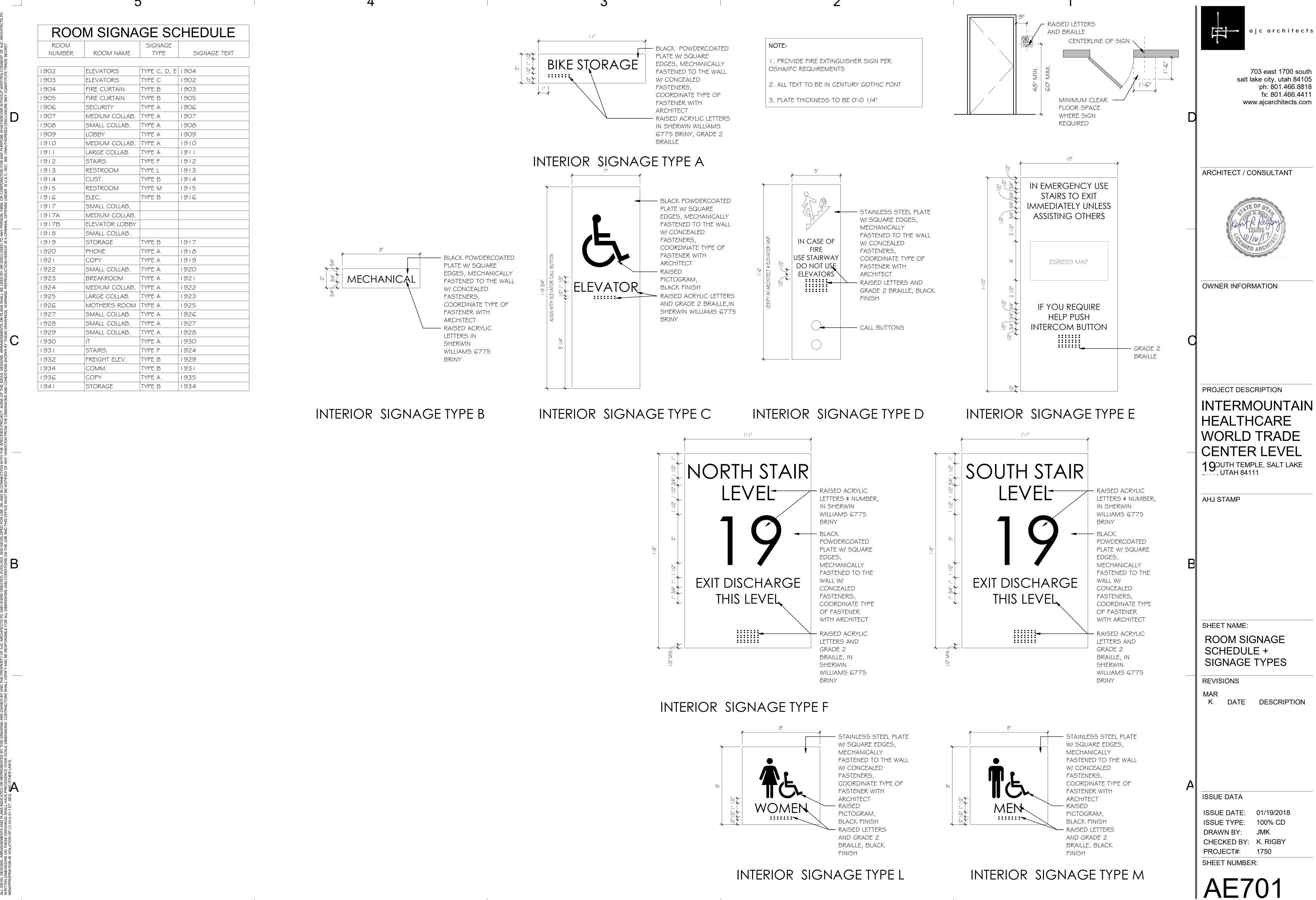
FINISH: PT1 - PEARLY WHITE SW 7009, SEE SPEC FOR

SPECIES: ENGINEERED WALNUT VENEER (QUARTER-

SPECIES: ENGINEERED WALNUT VENEER (QUARTER-SLICED)

COLOR: LA WHITE 18

FINISH: STAINED TO MATCH ARCHITECT'S SAMPLE



		1			2		3	
න ව		SYMBOL LEGEND		SYN	/BOL LEGE	ND		
CHILECT	SYMBOL	DESCRIPTION	SYMBOL D	ESCRIPTIO				PIPING LEG
AJC AR		S, METERS, AND GAUGES	DUCT W					NOTE: ALL ABBREVIATIONS MA
SENT OF OF SECI	\bowtie	SHUT OFF VALVE	SINGLE LINE		DOUBLE LINE	DESCRIPTION		
UTE TRA	M N	GATE VALVE					LPS-	LOW PRESSURE STEAM HIGH PRESSURE CONDE
II WRITT		CHECK VALVE	-			RECTANGULAR SUPPLY DUCT UP	——————————————————————————————————————	MEDIUM PRESSURE CON
WITHOUT WRITTEN CONSENT OF AJ		AUTO 2-WAY VALVE					PC -	PUMP DISCHARGE
Sclosur		AUTO 3-WAY VALVE	<u> </u>			RECTANGULAR SUPPLY DUCT DOWN	CHWS	CHILLED WATER SUPPLY
≒ □		GLOBE VALVE					HHWS	
PURPOS	Φ	BALL VALVE	<u> </u>			RECTANGULAR RETURN DUCT UP	RL	REFRIGERANT LIQUID REFRIGERANT SUPPLY
.: 506. UN	<u></u>	RELIEF VALVE	-				CWS CWR	
ATION FO		CHAIN OPERATED GATE VALVE	- 5		\	RECTANGULAR RETURN DUCT DOWN	HG ⁻	DRAIN LINE HOT GAS BYPASS
CORPOR		PRESSURE REDUCING VALVE					GS GR	
ON, FIRM, OR CORPORATION FOR ANY PURPOSE WHY OPFENSE UNDER 18 U.S.C. SEC. 506. UNAUTHORIZED		BUTTERFLY VALVE	<u> </u>		<u>}</u>	RECTANGULAR EXHAUS' DUCT UP	T FOS FOV	
ASON, FI	Ψ S X	SOLENOID VALVE			<u> </u>			l
ANY PER CRIMINA		ANGLE VALVE	- 5		<u>}</u>	RECTANGULAR EXHAUS' DUCT DOWN	Ť 	
E USED BY OR DISCLOSED TO ANY REPRODUCTION HEREOF IS A CRI		VENTURI	_					
A DISCLO	\boxtimes	BALANCING OR PLUG COCK	<u> </u>	- S)		ROUND DUCT UP		DEFINITIO
ED BY OI	\boxtimes	FLOW SETTER	_					NOTE: ALL DEFINITIONS MAY
IL BE USI NG: REPF	\otimes	EXPANSION VALVE (REFRIG.)	- 5		()	ROUND DUCT DOWN	REPRESEN'	THE TERM "INDICATED" REFERS T TATIONS, NOTES, OR SCHEDULES HS OR SCHEDULES IN THE SPECIF
NS SHAL WARNII	\neg	GAS COCK			<u> </u>		REQUIREME AS "SHOWN	ENTS IN THE CONTRACT DOCUMEN I", "NOTED", "SCHEDULED", AND "SI
ESE DRAWINGS	X MAV	MANUAL AIR VENT	===	==		ACCOUSTICALLY LINED RECTANGULAR DUCT		HE READER LOCATE THE REFEREN S INTENDED.
TESE DR	A IVIAV	STRAINER				00° DECTANCIII AD	"SELECTED	TERMS SUCH AS "DIRECTED", "RE ", "APPROVED", "REQUIRED", AND "
ARRANG VN BY TH	9	GAUGE COCK	- 5	l		90° RECTANGULAR ELBOW WITH TURNING VANES	"DIRECTED SIMILAR PH	BY THE ENGINEER", "REQUESTED RASES.
E IDEAS, DESIGNS, AR	—————————————————————————————————————	FLEXIBLE CONNECTION					WITH THE E	: THE TERM "APPROVED", WHERE NGINEER'S ACTION ON THE CONT
IDEAS, D ONDITIO	arphi	PRESSURE GAUGE				90° RADIUS ELBOW R=1.5		DNS, AND REQUESTS, IS LIMITED TO DNSIBILITIES AS STATED IN GENER, S
	<u> </u>	THERMOMETER			<u> </u>		FURNISH: 1	THE TERM "FURNISH" IS USED TO M
WITH THE SPECIFIED PROJECT. NONE OF TH ANY VARIATION FROM THE DIMENSIONS AND	П П	VICTUALIC COUPLING	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			DUCT SIZE OR SHAPE TRANSITION		DJECT SITE, READY FOR UNLOADIN ON, AND SIMILAR OPERATIONS."
THE DIN	<u> </u>	REDUCER CONCENTRIC						HE TERM "INSTALL" IS USED TO DE ITE INCLUDING THE ACTUAL "UNLO
ON FROM		REDUCER ECCENTRIC	- 5	<u> </u>		OPPOSED BLADE BALANCING DAMPER (O.B.D.) IN RECT DUCT		ERECTION, PLACING, ANCHORING, FINISHING, CURING, PROTECTING
VARIATIC	<i>∨</i> ⊗	REFRIGERANT SITE GLASS			Г Г	,	PROVIDE: 1	NO. FHE TERM "PROVIDE" MEANS "TO F
OF ANY V V		REFRIGERANT STRAINER	<u> </u>		-	BUTTERFLY BALANCING DAMPER IN ROUND DUCTS		AND READY FOR THE INTENDED U AN "INSTALLER" IS THE CONTRAC
OTIFIED		REFRIGERANT FILTER DRIER	1		<u> </u>	50010	ENGAGED E	BY THE CONTRACTOR, EITHER AS A ACTOR, OR SUB-SUBCONTRACTOR
ND IN CC		90 DEG ELBOW UP				COMBINATION TEE	ERECTION,	R CONSTRUCTION ACTIVITY, INCLU APPLICATION, AND SIMILAR OPERA TO BE EXPERIENCED IN THE OPER
ISE ON A	— <u>—</u>	90 DEG ELBOW DOWN						TO BE EXPERIENCED IN THE OPER TO PERFORM.
, AND DEVELOPED FOR USE ON AND IN CONNEC ON THE JOB AND THIS OFFICE MUST BE NOTIFIE		90 DEG TEE UP				SPLITTER DAMPER		SYMBOL LE
JOB ANI		90 DEG TEE DOWN	,			SQUARE OR	SYMBOL	DESCRIPTION
		UNION	\	\bigoplus	\	RECTANGULAR CEILING DIFFUSER		ENCE LINES AND SYN
SNOLVEI BDILLIONS		CAPPED PIPE					#	DETAIL INDICATOR: # INDICATE
AND CON		ANCHOR	5 (6))	} (0)	ROUND CEILING DIFFUSER	SHEET	NUMBER, SHEET INDICATES DR WHERE DETAIL IS SHOWN.
VERE CE NSIONS	-5-	FLOAT AND THERMOSTATIC TRAP						ELEVATION OR SECTION INDICA
HIECLS PC AND WERE CREATED, EVOLVED SLE FOR ALL DIMENSIONS AND CONDITIONS ALL FOR ALL DIMENSIONS AND CONDITIONS	HVAC	⊥ SYMBOLS				SIDEWALL REGISTER SUPPLY OR RETURN	# SHEET)	# INDICATES ELEVATION OR SE SHEET INDICATES DRAWING SH
LE FOR A	Ţ	THERMOSTAT					· · · · · · · · · · · · · · · · · · ·	ELEVATION OR SECTION IS SHO
JC ARCH	<u> </u>	TEMPERATURE SENSOR			8	ROUND FLEXIBLE DUCT	#	ELEVATION OR SECTION INDICA
TY OF A	(H)	HUMIDISTAT					SHEET	# INDICATES ELEVATION OR SE SHEET INDICATES DRAWING SH ELEVATION OR SECTION IS SHO
PROPER			<u> </u>			RETURN GRILLE	100	SPACE NUMBER
AND THE							$\overline{\langle 1 \rangle}$	KEYNOTE INDICATOR
LED BY A			5		}	EXHAUST GRILLE		REVISION INDICATOR
SONTRAC								EQUIPMENT INDICATOR
AWING A			5	\rightarrow		FIRE SMOKE DAMPER		PLUMBING FIXTURE INDICATOR
THIS DR.			(a)				TYPE	
TTED BY ER SCAL S.			5	\rightarrow		FIRE DAMPER	CFM SIZE	DIFFUSER/GRILLE INDICATOR
EPRESEI SNCE OV IER LAW					<u> </u>		TYPE	DIFFUSER/GRILLE INDICATOR
AND OTH			SD	\rightarrow	SD	SMOKE DAMPER	SIZE	BREAK, STRAIGHT
INDICATE L HAVE F T. SEQ. /			<u> </u>					BREAK, ROUND
9 PLANS 3S SHAL -2-31-1 E			\	\rightarrow	FC	FLEXIBLE CONNECTION	MATCH LINE	MATCHLINE INDICATOR
NTS ANE ORAWIN(OF I.C.24			FC		FC		SEE XX/X-XXX	HIDDEN FEATURES LINE: HIDDE
ANGEMEI THESE L LATION (5	\rightarrow	}	FLEXIBLE CONNECTION		CONTRACT LIMIT LINE: DASHDO
DEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING TITEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. PPROPRIATION IN VIOLATION OF I.C.24-2-31-1 ET. SEQ. AND OTHER LAWS.					<u> </u>			NEW CONNECTION TO EXISTING
s, Desigi Dimensi Priatic			<u></u>	\rightarrow	 	DUCT TO BE REMOVED		POINT OF DEMOLITION
DEAS TEN - PPRC								5. 5262.11614

PIPING LEGEND

OTE: ALL ABBREVIATIONS MAY NOT BE USED HIGH PRESSURE STEAM MEDIUM PRESSURE STEAM LOW PRESSURE STEAM HIGH PRESSURE CONDENSATE RETURN MEDIUM PRESSURE CONDENSATE RETURN LOW PRESSURE CONDENSATE RETURN PUMP DISCHARGE TEMPERED WATER SUPPLY CHILLED WATER SUPPLY CHILLED WATER RETURN HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN REFRIGERANT LIQUID REFRIGERANT SUPPLY CONDENSER WATER SUPPLY CONDENSER WATER RETURN DRAIN LINE **HOT GAS BYPASS** GLYCOL SUPPLY **GLYCOL RETURN** FUEL OIL SUPPLY FUEL OIL VENT

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED

E TERM "INDICATED" REFERS TO GRAPHIC IONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR S IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS EADER LOCATE THE REFERENCE, NO LIMITATION ON

RMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", PPROVED", "REQUIRED", AND "PERMITTED" MEAN THE ENGINEER", "REQUESTED BY THE ENGINEER", AND

IE TERM "APPROVED", WHERE USED IN CONJUNCTION NEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES BILITIES AS STATED IN GENERAL AND SUPPLEMENTARY

TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER CT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, AND SIMILAR OPERATIONS."

ERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ECTION, PLACING, ANCHORING, APPLYING, WORKING TO IISHING, CURING, PROTECTING, CLEANING, AND SIMILAR

TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, READY FOR THE INTENDED USE."

"INSTALLER" IS THE CONTRACTOR OR AN ENTITY HE CONTRACTOR, EITHER AS AN EMPLOYEE, OR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A INSTRUCTION ACTIVITY, INCLUDING INSTALLATION, LICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE BE EXPERIENCED IN THE OPERATIONS THEY ARE

SYMBOL LEGEND

ICE LINES AND SYMBOLS

ETAIL INDICATOR: # INDICATES DETAIL UMBER, SHEET INDICATES DRAWING SHEET /HERE DETAIL IS SHOWN.

ELEVATION OR SECTION INDICATOR, EXTERIOR: INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.

ELEVATION OR SECTION INDICATOR, INTERIOR: INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN. SPACE NUMBER

IIDDEN FEATURES LINE: HIDDEN, THIN LINE CONTRACT LIMIT LINE: DASHDOT, WIDE LINE EW CONNECTION TO EXISTING

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

(E) EXISTING AD ACCESS DOOR AIR COND AIR CONDITION(-ING,-ED) APD AIR PRESSURE DROP **BALANCING DAMPER** BHP **BRAKE HORSE POWER** BTU **BRITISH THERMAL UNIT** BTUH BTU/HOUR CFH **CUBIC FEET PER HOUR CUBIC FEET PER MINUTE** CLG COOLING COMP COMPONENT CONDENS(-ER, -ING, -ATION) COND CV CONTROL VALVE DB DRY BULB TEMPERATURE DCW DOMESTIC COLD WATER DOMESTIC HOT WATER DHW DHWR DOMESTIC HOT WATER RECIRC DIA DIAMETER DISCH DISCHARGE DP DEPTH OR DEEP EΑ EXHAUST AIR EER **ENERGY EFFICIENCY RATIO** EFF **EFFICIENCY** EG ETHYLENE GLYCOL ELEC ELECTRIC ELEV **ELEVATION** ENT **ENTERING EVAP** EVAPORAT(-E, -ING, -ED, -OR) EWT **ENTERING WATER TEMPERATURE** EXT **EXTERNAL** FC FLEXIBLE CONNECT(-OR, -ION) FD

FIRE DAMPER FULL LOAD AMPS FINS PER INCH FEET PER MINUTE FEET PER SECOND FIRE SMOKE DAMPER GALLON(S) **GREASE EXHAUST** GALLONS PER HOUR GALLONS PER MINUTE HEAD MERCURY

FLA

FPI

FPS

FSD

GAL

GE

GPH

GPM

HR

HT

ID

IN

KW

LG

LH

LVG

LWT

MBH

NIC

NO

OD

ΟZ

PD

PG

PPM

PSF

PSI

PSIA

PSIG

RLA

RPM

SC

SCW

SQ

STD

SW

TD

TA(R)

TA(S)

TEMP

TOT

VAC

VAV

VEL

VENT

VERT

VFD

WPD

WTR

WT

TSTAT

THERM

NPSH

HD **HORSEPOWER** HOUR **HEIGHT** HTG HEATING HERTZ (FREQUENCY) INSIDE DIAMETER KILOWATT LAT LEAVING AIR TEMPERATURE LBS POUNDS LENGTH LATENT HEAT LRA LOCKED ROTOR AMPS

LEAVING LEAVING WATER TEMPERATURE THOUSAND BTU PER HOUR MINIMUM CIRCUIT AMPS MANUFACTUR(-ER, -ED) NORMALLY CLOSED NOISE CRITERIA NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEAD NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER

OUNCE PRESSURE DROP OR DIFFERENCE PROPOLENE GLYCOL PARTS PER MILLION **PRESS** PRESSURE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI ABSOLUTE PSI GAUGE THERMAL RESISTANCE RETURN AIR **RECIRC** RECIRCULATE REFR REFRIGERATION REQD REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE

SUPPLY AIR SHADING COEFFICIENT SCFM STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SAFETY FACTOR SENSIBLE HEAT SEA LEVEL STATIC PRESSURE SPEC(S) SPECIFICATION(S)

SQUARE STANDARD SOIL, WASTE TRANSFER AIR (RETURN) TRANSFER AIR (SUPPLY) TEMP. DROP OR DIFF. **TEMPERATURE** THERMAL TOTAL **THERMOSTAT**

VACUUM VARIABLE AIR VOLUME VELOCITY VENT, VENTILATION VERTICAL VARIABLE FREQUENCY DRIVE VOLUME

VENT

WATER

WET BULB TEMP WATER COLUMN WATER GAUGE WATER PRESSURE DROP WEIGHT

MECHANICAL GENERAL NOTES

THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT & NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED.

MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS,

- THE DRAWINGS & SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNISHED & INSTALLED AS THOUGH SHOWN & CALLED OUT IN BOTH.
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, & ALL OTHER APPLICABLE CITY, COUNTY, STATE, & FEDERAL CODES & REGULATIONS IN
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ANY CODES, RULES,
- PRIOR TO FABRICATION & INSTALLATION OF ANY MECHANICAL COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE
- THE SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED & OR INSTALLED. ANY CONFLICTS &/OR CHANGES FOUND DURING INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW & USE, WHERE APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

13 DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAINING AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, & ACCESSORIES SHALL BE RECORDED. THESE REDUNED DRAWINGS SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH SPECIFICATIONS.

- ALL CAPACITIES ARE AT JOB SITE CONDITIONS & ARE MINIMUM CAPACITY.
- SEISMIC REQUIREMENTS & THE REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS.
- VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUDING ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
- ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HVAC EQUIPMENT CHECK-IN SAFEKEEPING, & DAMAGE.

MECHANICAL SHEET INDEX

ME001	MECHANICAL COVER SHEET
ME501	MECHANICAL DETAILS
ME502	MECHANICAL DETAILS
ME601	MECHANICAL SCHEDULES
MD101	LEVEL 19 MECHANICAL DEMO PLAN
MD102	LEVEL 19 MECHANICAL PIPING DEMO PLAN
MH101	LEVEL 19 MECHANICAL PLAN
MP101	LEVEL 19 MECHANICAL PIPING PLAN

EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.

QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.

- REGULATIONS & REQUIREMENTS OF THE BUILDING OWNER.
- RESOLVED PRIOR TO INSTALLATION.
- ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENT.
- THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE ALL MOUNTING REQUIREMENTS WITH ARCHITECTURAL & STRUCTURAL DRAWINGS.
- ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 11 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS & GRILLES.
- 12 CONTRACTOR SHALL OPERATE THE SYSTEM & DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR OWNER TO PROVE ALL SYSTEMS ARE OPERATIONAL.

GENERAL EQUIPMENT NOTES

- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED TO CONFORM WITH LOCAL
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
- AIR INLETS & OUTLETS SHALL BE OF THE SAME MANUFACTURER.

ME001	MECHANICAL COVER SHEET
ME501	MECHANICAL DETAILS
ME502	MECHANICAL DETAILS
ME601	MECHANICAL SCHEDULES
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ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CLD

CHECKED BY: RHB PROJECT#: 1750

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BOOGAARD

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801-328-5151

fax: 801-328-5155

www.spectrum-engineers.com

PROJECT DESCRIPTION

HEALTHCARE

WORLD TRADE

CENTER LVL 19

UTAH 84111

AHJ STAMP

SHEET NAME:

SHEET

REVISIONS

60 SOUTH TEMPLE, SALT LAKE CITY,

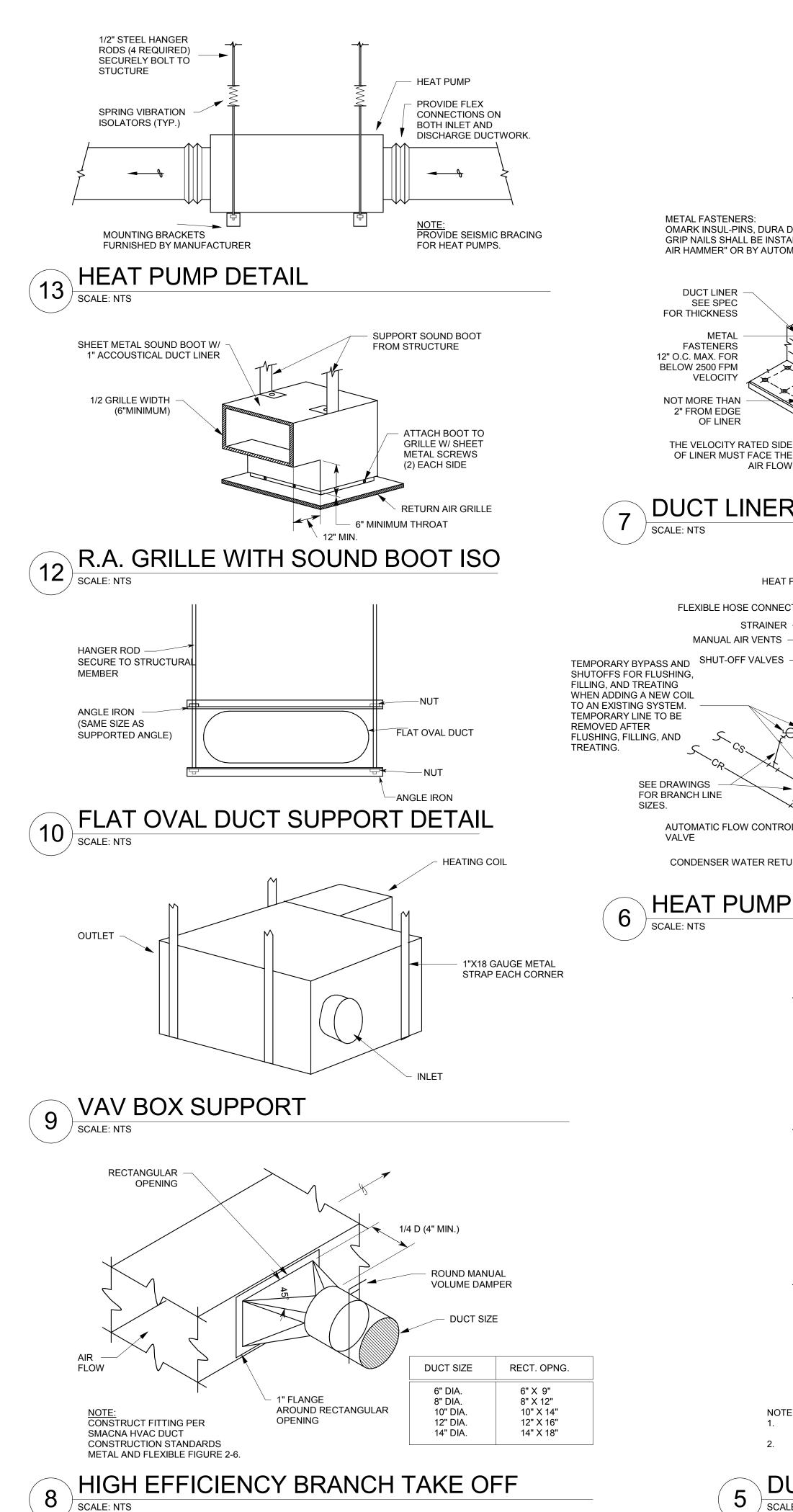
MECHANICAL COVER

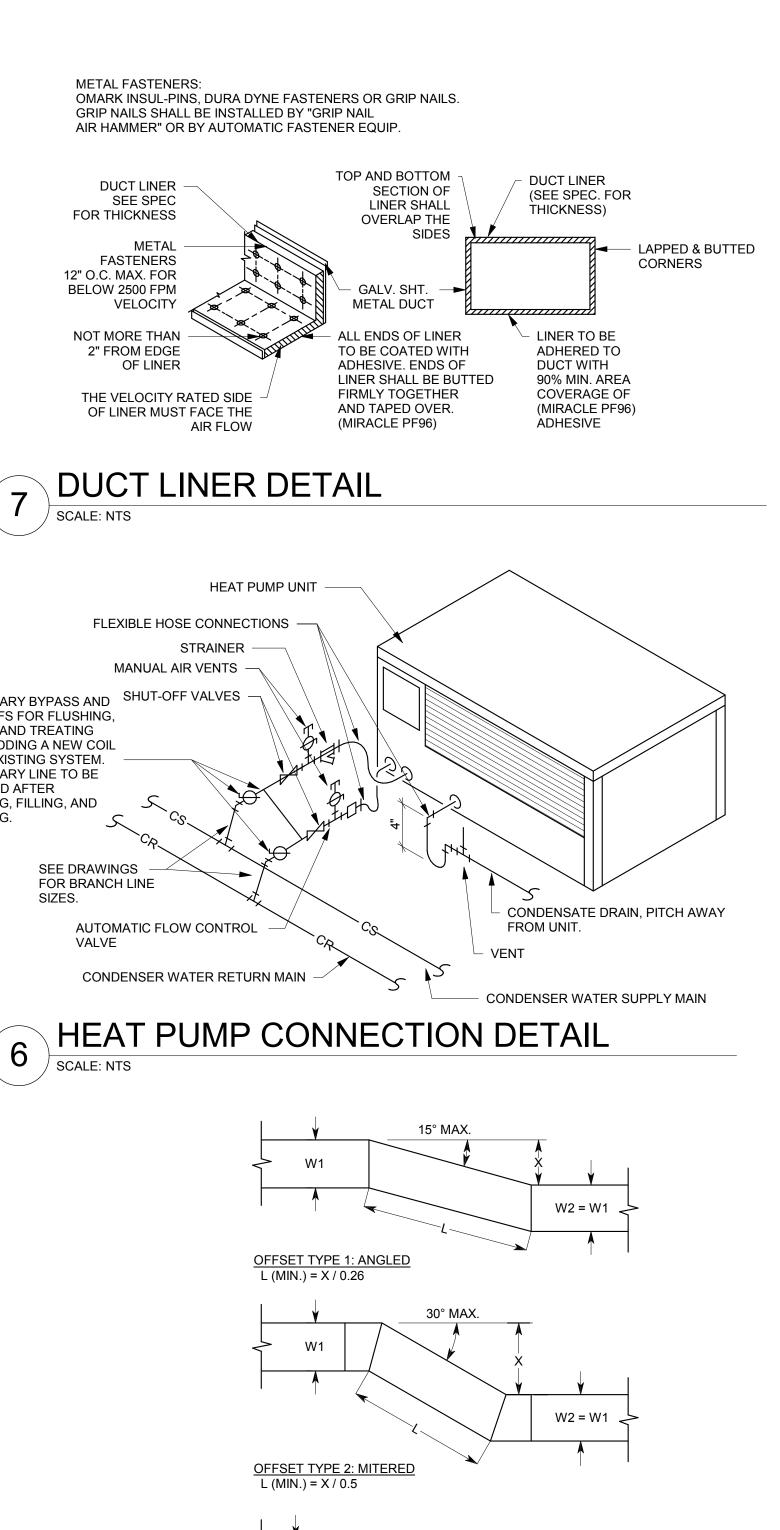
MARK DATE DESCRIPTION

INTERMOUNTAIN

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OFFSET TYPE 3: RADIUSSED R (MIN.) = 3W / 2

SHOWN SHALL APPLY.

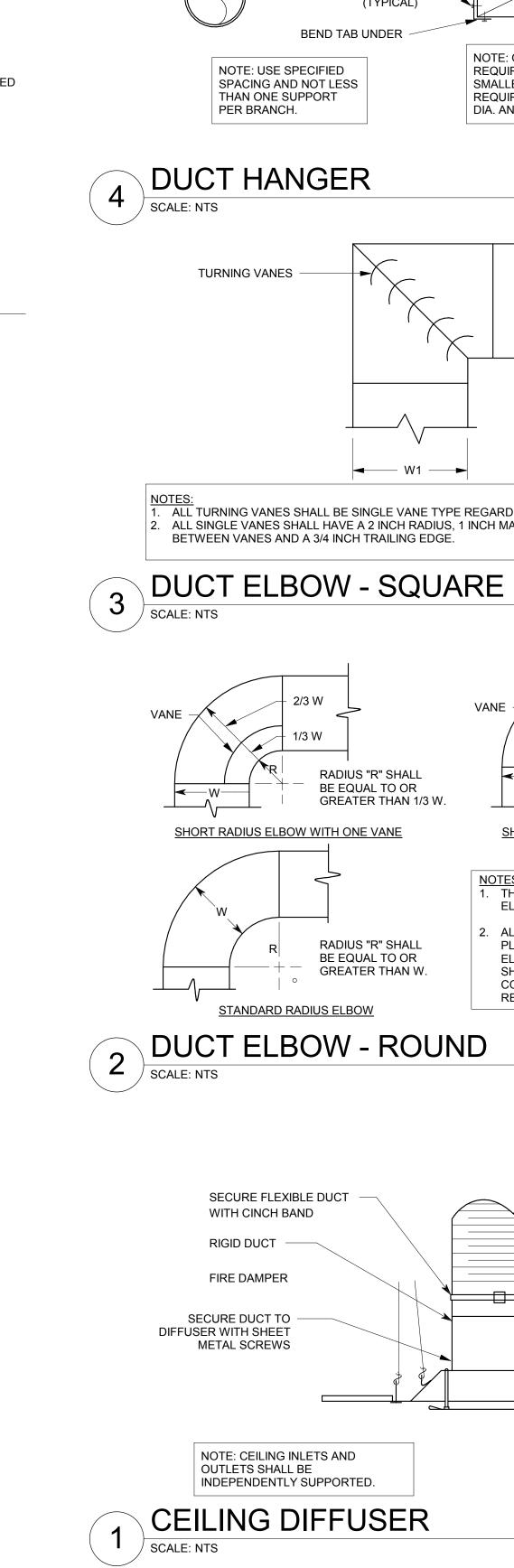
DUCT OFFSETS

SCALE: NTS

OF THE 3 OFFSET TYPES ABOVE.

UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES

ALL OFFSETS SHOWN ON DRAWINGS MADE BE MADE WITH ANY





OVERHEAD

STRUCTURAL MEMBER

1-1/4" x 16 GAUGE

(TYPICAL).

SHEET METAL STRAP,

USING AIRCRAFT CABLE

ARE ALSO ACCEPTABLE

REQUIREMENTS

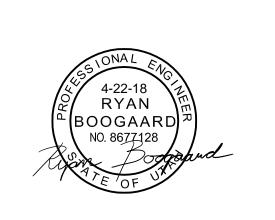
REFER TO SMACNA HVAC DUCT

CONSTRUCTION STANDARDS METAL

AND FLEXIBLE - THIRD EDITION FOR

GRIPPLE HANGERS

DOUBLE FOLD STRAP & SECURE WITH 3/8" DIA. **EXPANSION BOLT (TYPICAL)**



ARCHITECT / CONSULTANT

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

MECHANICAL DETAILS

REVISIONS

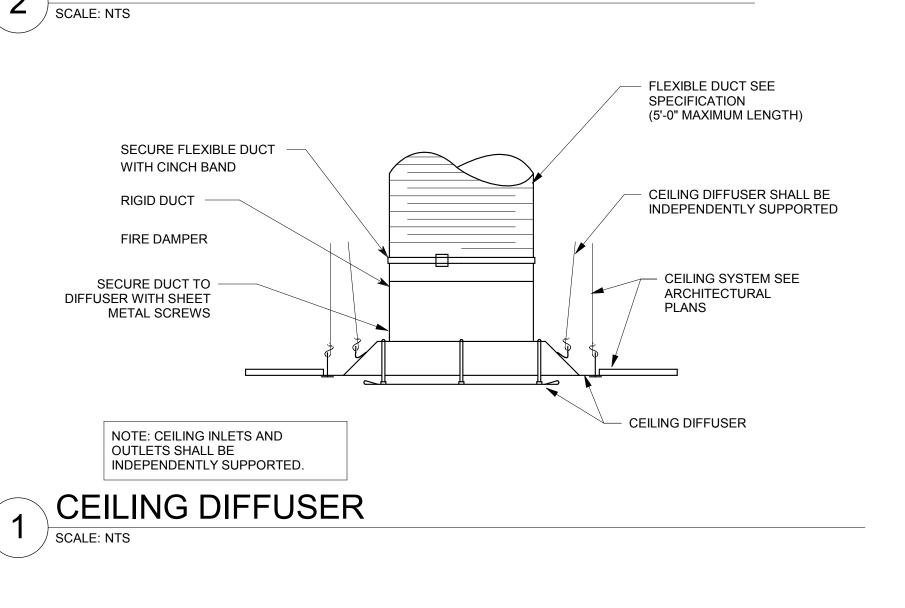
MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CLD CHECKED BY: RHB

1750

SHEET NUMBER:

PROJECT#:



TURNING VANES 1. ALL TURNING VANES SHALL BE SINGLE VANE TYPE REGARDLESS OF DIMENSION. 2. ALL SINGLE VANES SHALL HAVE A 2 INCH RADIUS, 1 INCH MAXIMUM SPACE BETWEEN VANES AND A 3/4 INCH TRAILING EDGE.

OPEN WEB STRUCTURE

ROUND DUCT

3/8" DIA. BOLT AND NUT

#10 SHEET METAL

BEND TAB UNDER

NOTE: USE SPECIFIED

THAN ONE SUPPORT

PER BRANCH.

SPACING AND NOT LESS

SCREW, 6" O.C.

(TYPICAL)

DUCT

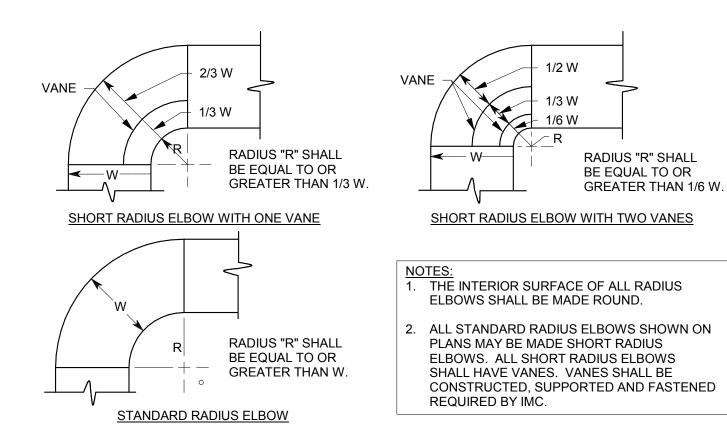
REQUIRED DUCT 24" DIA. AND

SMALLER, TWO HANGERS

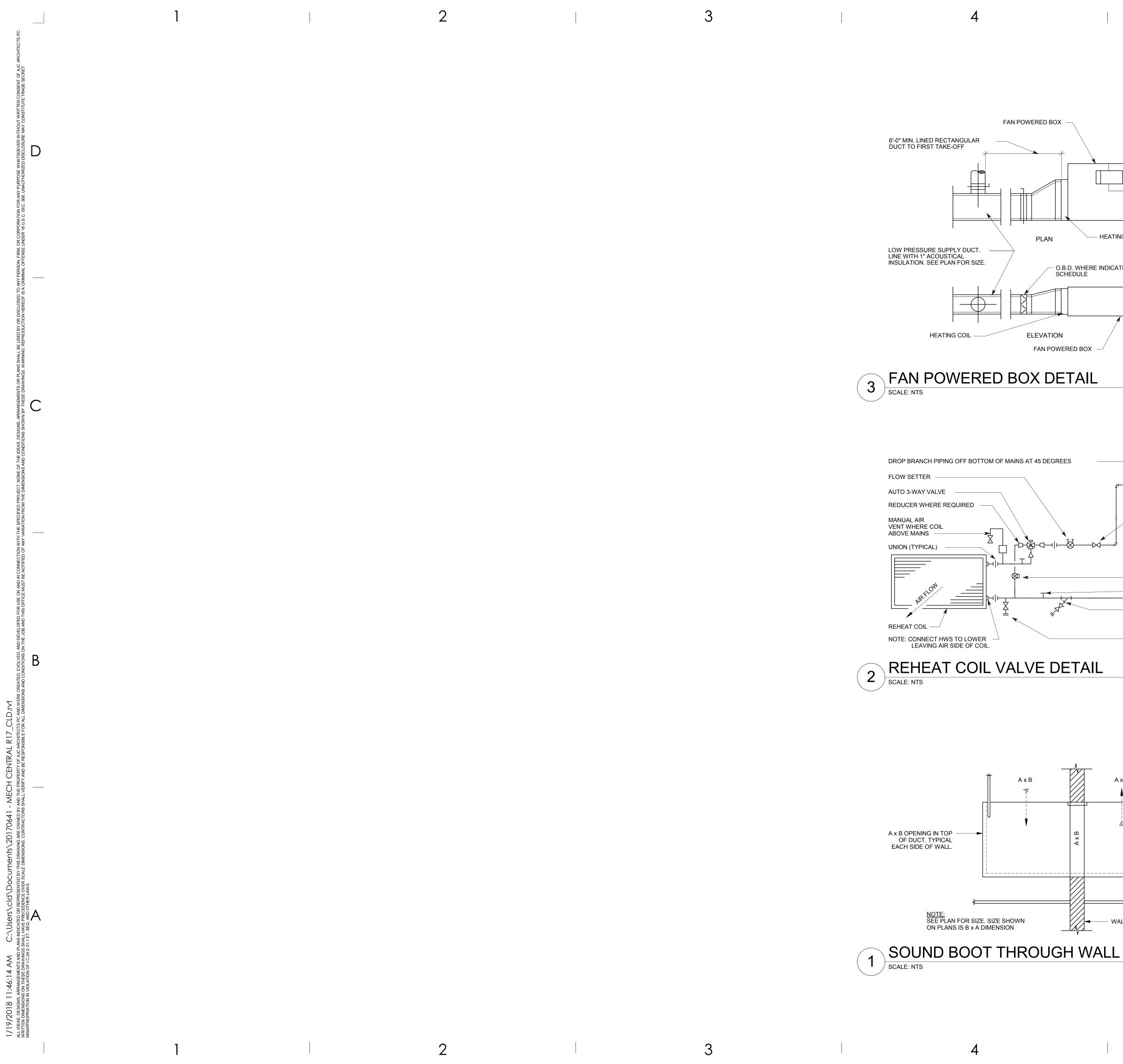
REQUIRED FOR DUCTS 26"

NOTE: ONE HANGER

DIA. AND LARGER.



DUCT ELBOW - ROUND SCALE: NTS





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SIDE OR BOTTOM FILTER
 REMOVAL SPACE AS REQUIRED
 KEEP CLEAR.
 FILTER

— INDUCED AIR SHEETMETAL SOUND BOOT-SAME SIZE AS BOX INLET. EXTENDED

MEDIUM PRESSURE PRIMARY AIR SUPPLY DUCT- SAME SIZE AS BOXINLET UNLESS OTHERWISE

- 1" ACOUSTICAL INSULATION

ACOUSTICAL TURNING VANES

DUCT MOUNTED THROWAWAY
 1" THICK FILTER WITH FRAME AND ACCESS DOOR.

— SIDE OR BOTTOM FILTER REMOVAL SPACE AS REQUIRED KEEP CLEAR.

SHUT-OFF VALVE (TYPICAL)

P & T TEST PLUG (TYPICAL)

- STRAINER BLOW DOWN WITH VALVE, HOSE CONNECTION, AND CAP SAME SIZE AS BLOW DOWN

DRAIN LINE WITH VALVE, HOSE CONNECTION, AND CAP

- SUPPORT FROM STRUCTURE

- A x B SHEETMETAL RETURN AIR SOUND BOOT LINE WITH 1" ACOUSTICAL INSULATION

PLUG COCK

 $A \times B$

REQUIRED.

- HEATING COIL

O.B.D. WHERE INDICATED ON

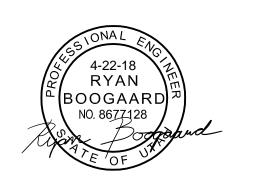
SCHEDULE

FAN POWERED BOX

PLAN

ELEVATION

FAN POWERED BOX



ARCHITECT / CONSULTANT



PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

MECHANICAL DETAILS

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CLD CHECKED BY: RHB

PROJECT#: 1750

SHEET NUMBER:

ME502

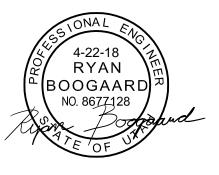
	WATER SOURCE HEAT PUMP																										
COOLING								HEATIN	IG					EL	ECTRIC	AL											
				NET SENSIBLE	NET CAPACITY					FLOW	WPD (ft										DISCONNECT	DISCONNECT	-				
LABEL	CFM	MIN CFM	EXT. S.P.	CAPACITY (MBh)	(MBh)	EDB °F	EWB °F	LDB °F	LWB °F	RATE	WG)	NET CAPACITY (MBh)	EDB °F	LDB °F	VOLTAGE	PHASE	Hz	FLA	MCA	MOCP	BY ELEC	BY MECH	COP	EER	MANUFACTURER	MODEL	REMARKS
HP-1	1200	912	0.68 in-wg	25.30	33.14	81 °F	66 °F	58 °F	57 °F	10 GPM	7.30	47.22	68 °F	111 °F	208	3	60	13 A	14.85	20	YES	NO	4.7	13.7	Trane	GEHE0353	1,2,3,4,5,6

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									FAN	N POW	/ERED	BOX	SCHE	DULE										
	INLET	CI	-M	INLET STATIC	OUTLET STATIC	MAX NC	WC								WPD	CONTROL								
LABEL	DIAMETER	MAX	MIN	PRESSURE	PRESSURE	LEVEL	CAPACITY	ROWS	EAT	LAT	APD	GPM	EWT	LWT	(ftw.g.)		HP	VOLTAGE	PHASE	MCA	WEIGHT	MANUFACTURER	MODEL	REMARKS
E)FP-1	8"	610	185	——EXISTING ——	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		EXISTING -									
E)FP-2	8"	520	155	——EXISTING ——	-EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		EXISTING -									
E)FP-3	8"	325	100	——EXISTING ——	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		-EXISTING -									
E)FP-4	8"	530	160	——EXISTING —	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		-EXISTING -									
E)FP-5	8"	565	170	——EXISTING —	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		-EXISTING -									
(E)FP-6	10"	935	280	——EXISTING ——	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		-EXISTING -									
E)FP-7	8"	850	255	——EXISTING ——	EXISTING		EXISTING —		EXISTING -			EXISTING —	EXISTING -		EXISTING -									
FPB-190	10"	660	200	1.75 in-wg	0.25 in-wg	25	15600.0 Btu/h	2	70 °F	90 °F	0.17 in-wg	1.0	140 °F	108 °F	0.58	2 WAY	1/3	277 V	1	2	68 lb	PRICE	FDV5 2010	1,2,3,4,5,6,7,8,9
FPB-191	12"	945	285	1.75 in-wg	0.25 in-wg	22	22300.0 Btu/h	2	70 °F	90 °F	0.33 in-wg	1.6	140 °F	111 °F	1.21	2 WAY	1/2	277 V	1	3.8	74 lb	PRICE	FDV5 3012	1,2,3,4,5,6,7,8,9
FPB-192	12"	1090	330	1.75 in-wg	0.25 in-wg	22	25800.0 Btu/h	2	70 °F	90 °F	0.19 in-wg	2.0	140 °F	113 °F	0.94	3 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5012	1,2,3,4,5,6,7,8,9
FPB-193	12"	1080	325	1.75 in-wg	0.25 in-wg	20	25500.0 Btu/h	2	70 °F	90 °F	0.22 in-wg	1.5	140 °F	103 °F	1.38	2 WAY	1/2	277 V	1	4.1	100 lb	PRICE	FDV5 4012	1,2,3,4,5,6,7,8,9
FPB-194	12"	1150	345	1.75 in-wg	0.25 in-wg	23	27200.0 Btu/h	2	70 °F	90 °F	0.14 in-wg	1.6	140 °F	105 °F	0.83	2 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5012	1,2,3,4,5,6,7,8,9
FPB-195	14"	1240	375	1.75 in-wg	0.25 in-wg	23	29300.0 Btu/h	2	70 °F	90 °F	0.16 in-wg	1.9	140 °F	107 °F	1.04	2 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5014	1,2,3,4,5,6,7,8,9
FPB-196	14"	1280	385	1.75 in-wg	0.25 in-wg	23	29700.0 Btu/h	2	70 °F	90 °F	0.17 in-wg	1.9	140 °F	107 °F	1.06	2 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5014	1,2,3,4,5,6,7,8,9
FPB-197	14"	1540	465	1.75 in-wg	0.25 in-wg	17	36400.0 Btu/h	2	70 °F	90 °F	0.23 in-wg	2.2	140 °F	105 °F	1.3	2 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5014	1,2,3,4,5,6,7,8,9
FPB-198	14"	1570	470	1.75 in-wg	0.25 in-wg	20	37100.0 Btu/h	2	70 °F	90 °F	0.24 in-wg	2.2	140 °F	105 °F	1.36	2 WAY	1	277 V	1	6.8	116 lb	PRICE	FDV5 5014	1,2,3,4,5,6,7,8,9
FPB-199	16"	1655	495	1.75 in-wg	0.25 in-wg	17	39100.0 Btu/h	2	70 °F	90 °F	0.26 in-wg	2.4	140 °F	105 °F	1.52	2 WAY	1	277 V	1	6.8	196 lb	PRICE	FDV5 6016	1,2,3,4,5,6,7,8,9



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1. INLET STATIC PRESSURE OF 1.75" AND DISCHARGE OF .25" 2. NC RATING BASED OFF OF AHRI STANDARD 885-2008.

3. 1/2 IN. THICK, MIN. 1.5 LB DENSITY FIBERGLASS INTERNAL INSULATION.

PROVIDE WITH MERV 7 FILTERS.
 PROVIDE WITH LINED RETURN DUCT AND DROP OUT BOTTOM FILTER RACK WITH STANDARD SIZE FILTERS.
 ALL UNITE CAPACITIES ARE AT SITE ELEVATION.

PROVIDE WITH CONDENSATE PUMP. SEPERATE POWER CONNECTION (120V/1PH/60HZ, 2A FLA).
 ACCEPTABLE MANUFACTURERES: TRANE, CARRIER, CLIMATE MASTER, MAMMOTH INC., WATERFURNACE INTERNATIONAL INC., OR PRIOR APPROVED EQUAL.

4. PRESSURE INDEPENDENT OPERATION.

5. PROVIDE NEMA 1 ENCLOSURE FOR CONTROLS.

6. PROVIDE INSULATED ACCESS PANEL.

ACCEPTABLE MANUFACTURERS: PRICE, KRUEGER, TITUS OR PRIOR APPROVED EQUAL 8. PROVIDE WITH ECM MOTOR.

FAN POWERED BOX TO BE PARALLEL TYPE OPERATION.
 PROVIDE 1" MERV 7 FILTER.

									EXHAUS	ST FAN	SCH	EDULE						
LABEL	CFM	STATIC PRESSURE	FAN RPM	dBA	WEIGHT	НР	kW	FLA	VOLTAGE	PHASE	Hz		NNECT FURN BY MECH		RTER	MANUFACTURER	MODEL	REMARKS
LADEL	CLIAI	FRESSURE	FANKEW	UDA	WEIGHT	ПГ	N V V	ΓLA	VOLTAGE	FHASE	ПZ	FURN DI ELEC	FURIN DI INIECH	FURN DI ELEC	LOKIA DI MECH	WANDFACTURER	INIODEL	KEIVIAKKS
EF-1	150	0.25 in-wg	1113	47	95	1/6	18	10 A	115	1	60	YES	NO	YES	NO	СООК	SQND-EC	1,2,3

PROVIDE WITH TIME CLOCK AND RUN CONTINUOUSLY DURING BUSINESS HOURS.
 PROVIDE WITH BACKDRAFT DAMPER, DISCONNECT SWITCH, SUPPORT BRACKETS AND ISOLATOR, FLEXIBLE CONNECTION, AND BELT TENSIONER (BELT DRIVE MODELS ONLY).

3. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK, PENN BARRY, OR PRIOR APPROVED EQUAL.

								\	/AV S	SCHE	DULE							
	MAX AIR MIN AIR HOT WATER COIL																	
	INLET	FLOW	FLOW			HEATING	APD (IN	WATER			WPD (FT	CONTROL		MAX NC				
LABEL	SIZE	(CFM)	(CFM)	EAT (F)	LAT (F)			FLOW (GPM)	EWT (F)	LWT (F)	HD)	VALVE	ROWS	LEVEL	WEIGHT	MANUFACTURER	MODEL	NOTES
VAV-2	8"	750	225	0	0	EXISTING -	EXISTING -	0	0	EXISTING —	0			0	EXISTING —			
VAV-3	8"	780	235	0	0	EXISTING -	EXISTING -	0	0	EXISTING —	0			0	EXISTING -			
VAV-4	8"	325	100	0	0	EXISTING -	EXISTING -	0	0	EXISTING —	0			0	EXISTING —			
VAV-5	6"	160	50	0	0	EXISTING -	EXISTING -	0	0	EXISTING —	0			0	EXISTING —			
VAV-6	14"	1060	320	0	0	EXISTING -	EXISTING -	0	0	EXISTING —	0			0	EXISTING —			
V-1900	6"	160	65	55	90	2700.0 Btu/h	0.50	0.9	140	134 °F	0.57	2 WAY	1	20	18.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1901	6"	160	65	55	90	2700.0 Btu/h	0.50	0.9	140	134 °F	0.57	2 WAY	1	20	18.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1902	6"	170	65	55	90	2800.0 Btu/h	0.50	0.7	140	131 °F	0.34	2 WAY	1	21	18.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1903	6"	170	65	55	90	2800.0 Btu/h	0.50	0.7	140	131 °F	0.34	2 WAY	1	21	18.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
/-1904	6"	200	65	55	90	3300.0 Btu/h	0.50	0.9	140	132 °F	0.57	2 WAY	1	23	18.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
/-1905	6"	220	65	55	90	3700.0 Btu/h	0.50	0.2	140	104 °F	0.02	2 WAY	2	25	20.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1906	6"	260	75	55	90	4400.0 Btu/h	0.50	0.3	140	104 °F	0.03	2 WAY	2	27	20.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1907	8"	425	125	55	90	7100.0 Btu/h	0.50	0.2	140	75 °F	0.01	3 WAY	4	21	32.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1908	10"	615	210	55	90	10300.0 Btu/h	0.50	0.3	140	74 °F	0.03	2 WAY	4	16	39.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
/ -1909	12"	965	300	55	90	16100.0 Btu/h	0.50	0.5	140	76 °F	0.08	2 WAY	4	16	46.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
/-1910	14"	1225	430	55	90	20500.0 Btu/h	0.50	0.7	140	75 °F	0.05	3 WAY	4	16	56.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1911	14"	1350	430	55	90	22600.0 Btu/h	0.50	0.8	140	78 °F	0.07	2 WAY	4	16	56.00 lb	PRICE	SDV5	1,2,3,4,5,6,7
V-1912	12"	1200	360			COOLING ONL	Ϋ			COOLING ON	NLY —			24	23.00 lb	PRICE	SDV5	1.2.3.4.5.6.7

1. INLET STATIC PRESSURE OF 1.75" AND DISCHARGE OF .25".

2. NC RATING BASED OFF OF AHRI STANDARD 885-2008. 3. 1/2 IN. THICK, MIN. 1.5 LB DENSITY FIBERGLASS INTERNAL INSULATION.

4. PRESSURE INDEPENDENT OPERATION.

5. PROVIDE NEMA 1 ENCLOSURE FOR CONTROLS. 6. PROVIDE INSULATED ACCESS PANEL.

7. ACCEPTABLE MANUFACTURERS: PRICE, KRUEGER, TITUS OR PRIOR APPROVED EQUAL.

			REGIST	ER - G	RILLE	- DIFI	FUSER SC	HEDUL	.E		
LABEL	TYPE	BLOW PATTERN	MAX AIR FLOW (CFM)	FACE SIZE	NECK SIZE	NC	PRESSURE DROP (in-wg)	THROW	MANUFACTURER	MODEL	REMARKS
D-1	SUPPLY DIFFUSER	4-WAY	235	24"x24"	6"	30	0.090	4-5-8	PRICE	SPD	1,2,3,4,5
D-2	SUPPLY DIFFUSER	4-WAY	375	24"x24"	8"	30	0.120	5-7-11	PRICE	SPD	1,2,3,4,5
D-3	SUPPLY DIFFUSER	4-WAY	545	24"x24"	10"	30	0.180	5-8-12	PRICE	SPD	1,2,3,4,5
D-4	PREFORATED SUPPLY DIFFUSER	1-WAY	900	24"x24"	12"	30	0.132	N/A	PRICE	PDR	1,2,3,4,5
EG-1	LOUVERED EXHAUST GRILLE	N/A	500	24"x24"	8"	30	0.166	N/A	PRICE	85 SERIES	1,2,3,4,5
R-1	LOUVERED RETURN DIFFUSER	N/A	1700	24"x24"	N/A	30	0.100	N/A	PRICE	535	1,2,3,4,5
SD-1	SIDEWALL DIFFUSER LINEAR BAR	2-WAY	210	48"x5"	N/A	30	0.110	22-27-32	PRICE	LBP 15A	1,2,3,4,5

PROVIDE TRANSITION AS NECESSARY.

PROVIDE LAY-IN MODULE AS NECESSARY. 3. COLOR BY ARCHITECT.

PROVIDE WITH WITH LAY-IN TO HARD LID ADAPTER AS NECESSARY.
 ACCEPTABLE MANUFACTURERS: PRICE, KRUEGER, TITUS OR PRIOR APPROVED EQUAL.

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER LVL 19

> 60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

MECHANICAL SCHEDULES

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CLD

CHECKED BY: RHB PROJECT#: 1750

- ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE
- WITH ASTM E 84 OR UL 723. WHERE PIPE, OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CAULKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED
- PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES.
- TRANE CONTROLS DDC SYSTEM AND UPDATED GRAPHICS. PROVIDE ENGINEER WITH 2 WEEKS OF TRENDS SHOWING PROPER OPERATION OF EQUIPMENT UPON COMPLETION OF PROJECT. TRENDING DATA SHALL INCLUDE THE FOLLOWING DATA AT A MINIMUM: SPACE TEMPERATURE, SPACE SET POINT, HEATING OR COOLING MODE, AIR FLOW (FOR VAV SYSTEMS), & VALVE POSITION (FOR VAV SYSTEMS). SEE SEQUENCE OF OPERATIONS AND CONTROLS REQUIREMENTS ON SCHEDULE
- FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.
- PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.

○ SHEET KEYNOTES

SALVAGED TO OWNER.

EXISTING CONTROLS TO REMAIN

REMOVE ALL EXISTING VAV'S, FPB'S, AND ALL ASSOCIATED DUCTWORK BACK TO MAIN IN THIS AREA. ALL CONTROLS, FLOW SENSORS, AND THERMOSTATS TO BE

REMOVE EXISTING VAV/FPB AND ALL ASSOCIATED DUCTWORK, PIPING, CONTROLS, ETC. ALL CONTROLS, FLOW SENSORS, AND THERMOSTATS TO BE SALVAGED TO OWNER.



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

LEVEL 19 MECHANICAL

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018

CHECKED BY: RHB

SHEET NUMBER:

MD101

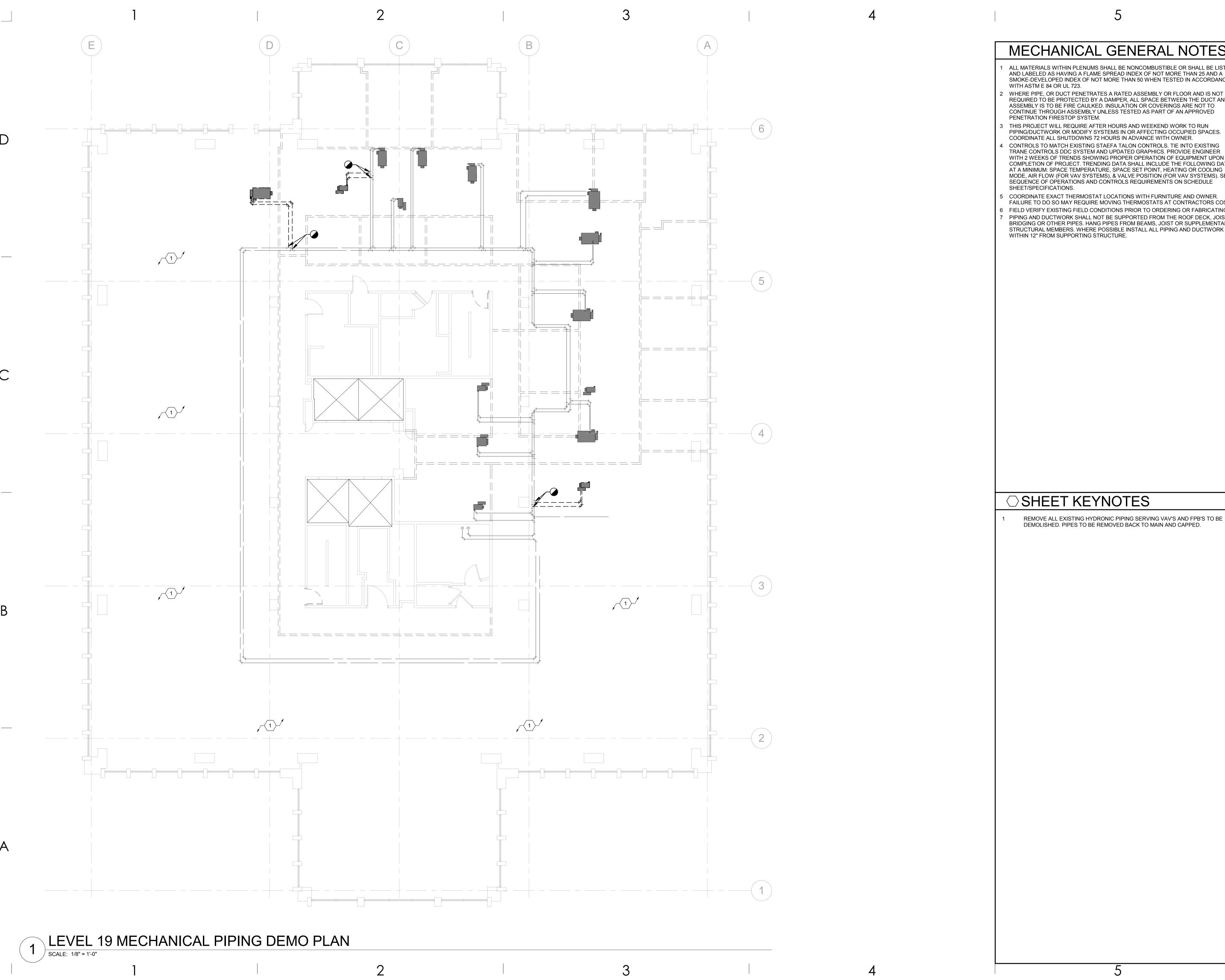
SHEET NAME:

DEMO PLAN

REVISIONS

100% CD DRAWN BY:

PROJECT#: 1750



ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE

WHERE PIPE, OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CAULKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED

THIS PROJECT WILL REQUIRE AFTER HOURS AND WEEKEND WORK TO RUN PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES. COORDINATE ALL SHUTDOWNS 72 HOURS IN ADVANCE WITH OWNER.

- CONTROLS TO MATCH EXISTING STAEFA TALON CONTROLS. TIE INTO EXISTING TRANE CONTROLS DDC SYSTEM AND UPDATED GRAPHICS. PROVIDE ENGINEER WITH 2 WEEKS OF TRENDS SHOWING PROPER OPERATION OF EQUIPMENT UPON COMPLETION OF PROJECT. TRENDING DATA SHALL INCLUDE THE FOLLOWING DATA AT A MINIMUM: SPACE TEMPERATURE, SPACE SET POINT, HEATING OR COOLING MODE, AIR FLOW (FOR VAV SYSTEMS), & VALVE POSITION (FOR VAV SYSTEMS). SEE SEQUENCE OF OPERATIONS AND CONTROLS REQUIREMENTS ON SCHEDULE
- COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST. 5 FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING.
- PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 MECHANICAL PIPING DEMO PLAN

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018

100% CD DRAWN BY: CHECKED BY: RHB

PROJECT#: 1750

SHEET NUMBER:

MD102

- ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 4500
 ALL LOW PRESSURE RECTANGULAR DUCTWORK TO BE LINED WITH INSULATION WITH AN R-VALUE OF R-6. ALL LOW PRESSURE ROUND DUCTWORK TO BE WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS.
- 3 ALL MEDIUM PRESSURE DUCTWORK TO BE 1" ACOUSTICAL DOUBLE WALL WITH PERFORATED INTERIOR DUCTWORK. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS
- DUCTWORK WITH IN DUCT HUMIDIFIERS

 ALL EXPOSED DUCTWORK TO BE SPIRAL ROUND OR FLAT OVAL WITH CLEAR SILICON DUCT SEALANT. DUCT TO BE FREE OF ANY COATINGS OR FILMS TO ALLOW FOR
- 5 ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
- 6 FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY
- 7 GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.
- PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK.
- 9 PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE.
- 10 PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
- 11 GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB)
 CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC
 AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST
 POSSIBLE SPEEDS. TAB CONTRACTOR SHALL VERIFY THE OUTSIDE AIR AT EACH RTU
 IS AS SCHEDULED. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT
 VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING
 OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO
 ENGINEER FOR REVIEW.
- 12 ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- 13 INSULATE ALL PLASTIC PIPING IN CEILING PLENUM. COMPLETELY ENCLOSE PLASTIC PIPE IN INSULATION THAT MEETS THE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50.
- 14 WHERE PIPE, OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CAULKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED PENETRATION FIRESTOP SYSTEM.
- 15 THIS PROJECT WILL REQUIRE AFTER HOURS AND WEEKEND WORK TO RUN PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES. COORDINATE ALL SHUTDOWNS 72 HOURS IN ADVANCE WITH OWNER.
- 16 THIS CONTRACTOR SHALL ENGAGE A FIRE PROTECTION DESIGN BUILD CONTRACTOR TO MODIFY THE EXISITING FIRE SPRINKLER SYSTEM. DESIGNER SHALL BE NICET LEVEL III TECHNICIAN. WORKING PLANS AND CALCULATIONS SHALL BE PREPARED ACCORDING TO NFPA 13, AND BE APPROVED BY AUTHORITIES HAVING JURISDICTION, NICLUDING HYDRAULIC CALCULATIONS IF APPLICABLE.
- 17 CONTRÖLS TO MATCH EXISTING STAEFA TALON CONTROLS. TIE INTO EXISTING STAEFA TALON CONTROLS DDC SYSTEM AND UPDATED GRAPHICS. PROVIDE ENGINEER WITH 2 WEEKS OF TRENDS SHOWING PROPER OPERATION OF EQUIPMENT UPON COMPLETION OF PROJECT. TRENDING DATA SHALL INCLUDE THE FOLLOWING DATA AT A MINIMUM: SPACE TEMPERATURE, SPACE SET POINT,
- HEATING OR COOLING MODE, AIR FLOW (FOR VAV SYSTEMS), & VALVE POSITION (FOR VAV SYSTEMS). SEE SEQUENCE OF OPERATIONS AND CONTROLS REQUIREMENTS ON SCHEDULE SHEET/SPECIFICATIONS.

 18 COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER.
- FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST

 19 FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING.
- 21 PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
- 22 PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.

○ SHEET KEYNOTES

- 1 PROVIDE WITH SOUND BOOT. SEE DETAIL #12 ON ME501.
- 2 PROVIDE PANS UNDER ALL WATER PIPING INCLUDING FIRE SPRINKLERS ABOVE IT
- CONNECT EXHAUST TO BUILDING MAIN EXHAUST STACK. FIELD VERIFY LOCATION.
- PROVIDE SOUND BOOT. SEE SOUND BOOT THROUGH WALL DETAIL ON ME502.
- 5 EXISTING RETURN AIR OPENING TO REMAIN.



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 MECHANICAL PLAN

REVISIONS

RK DATE DESCRIPTIO 02/05/2018 ADD#1

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ISSUE TYPE: 100% CD
DRAWN BY: CLD

CHECKED BY: RHB PROJECT#: 1750

SHEET NUMBER:

MH101

- HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
- GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. TAB CONTRACTOR SHALL VERIFY THE OUTSIDE AIR AT EACH RTU IS AS SCHEDULED. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
- AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE
- INSULATE ALL PLASTIC PIPING IN CEILING PLENUM. COMPLETELY ENCLOSE PLASTIC PIPE IN INSULATION THAT MEETS THE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50.
- PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES.
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- FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.
- 9 FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. 10 PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
- 1 PROVIDE TEMPORARY BYPASS IN NEW HYDRONIC PIPING PRIOR TO LOOP CONNECTION FOR FLUSHING AND FILLING NEW PIPING. PRESSURE TEST PIPING, AND PROVIDE CHEMICAL TREATMENT TO MATCH BUILDING STANDARD.
- 12 BALL VALVES SHALL BE FULL PORT WITH BRONZE BODY AND BRASS BALL. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.
- 13 INSTALL INSULATION OVER FITTINGS, VALVES, STRAINERS, FLANGES, UNIONS, AND OTHER SPECIALTIES WITH CONTINUOUS THERMAL AND VAPOR-RETARDER INTEGRITY. STRAINERS, CONTROL VALVES, AND BALANCING VALVES SHALL HAVE REMOVABLE INSULATION WITH LABEL INDICATED WHAT TYPE OF PIPE ACCESSORY IS BELOW INSULATION. INSULATION SHALL NOT IMPEDE PROPER OPERATION OF
- 14 TREAT ALL WATER IN HYDRONIC PIPING. CLEAN PIPING PRIOR TO ADDING CHEMICAL TREATMENT BY FILLING SYSTEM WITH FRESH WATER AND ADD LIQUID ALKALINE COMPOUND WITH EMULSIFYING AGENTS AND DETERGENTS TO REMOVE GREASE AND PETROLEUM PRODUCTS FROM PIPING. CIRCULATE SOLUTION FOR A MINIMUM OF 24 HOURS, DRAIN, CLEAN STRAINER SCREENS, AND REFILL WITH FRESH WATER. DO NOT USE SYSTEM PUMPS FOR CLEAN OR TREATING. A SEPARATE/TEMPORARY FLUSH PUMP MUST BE USED. PERFORM AN ANALYSIS OF MAKEUP WATER TO DETERMINE TYPE AND QUANTITIES OF CHEMICAL TREATMENT NEEDED TO KEEP SYSTEM FREE OF SCALE, CORROSION, AND FOULING AND ADD NECESSARY CHEMICALS TO SYSTEM. PROVIDE SYSTEM WITH CHEMICAL POT FEEDER. PROVIDE WRITTEN REPORTS OF TESTING RESULTS TO ENGINEER FOR REVIEW. INCLUDE 1 YEAR OF SERVICE FOR CHEMICAL TREATMENT INCLUDING CHEMICALS. APPROVED CHEMICAL TREATMENT CONTRACTORS ARE POWERS ENGINEERING AND W.E.S.T.
- 5 AUTOMATIC CONTROL VALVES SHALL BE TWO WAY PRESSURE INDEPENDENT GLOBE-STYLE BODIES, OR MANUAL GLOBE-STYLE BODIES WITH MEMORY STOPS AND REMOVABLE HANDLE. PRESSURE INDEPENDENT VALVES SHALL PROVIDE 100% CONTROL VALVE AUTHORITY AND SHALL HAVE LINEAR FLOW CHARACTERISTIC BALANCING CONTRACTOR SHOULD SUBMITT TWO DIFFERENT PRICES; ONE WITH MANUAL BALANCING VALVES AND ONE WITH PRESSURE INDEPENDENT CONTROL
- 6 PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK

- CONNECT HHWS/HHWR PIPING TO EXISTING PIPING IN THIS APPROXIMATE
- CONDENSATE TO RUN INTO SS PIPING. SEE FUNNEL DRAIN DETAIL #4 ON PE501.
- PROVIDE PANS UNDER ALL WATER PIPING INCLUDING FIRE SPRINKLERS ABOVE IT



- ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED WITH ASTM E 84 OR UL 723.
- WHERE PIPE, OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CAULKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED PENETRATION FIRESTOP SYSTEM.
- THIS PROJECT WILL REQUIRE AFTER HOURS AND WEEKEND WORK TO RUN COORDINATE ALL SHUTDOWNS 72 HOURS IN ADVANCE WITH OWNER.
- COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER.

- WITHIN 12" FROM SUPPORTING STRUCTURE

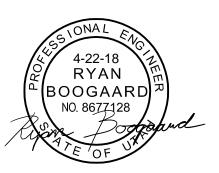
○ SHEET KEYNOTES

- CONNECT TO CONDENSER WATER SUPPLY AND RETURN IN THIS APPROXIMATE LOCATION.



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

LEVEL 19 MECHANICAL PIPING PLAN

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 100% CD

CHECKED BY: RHB PROJECT#: 1750

SHEET NUMBER:

DRAWN BY:

MP101

MISC	SYMBOL LEGEND
SYMBOL	DESCRIPTION
# SHEET	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
# SHEET	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
P-	PLUMBING FIXTURE INDICATOR.
TYPE CFM SIZE	DIFFUSER/GRILLE INDICATOR.
TYPE SIZE	DIFFUSER/GRILLE INDICATOR.
	BREAK, STRAIGHT
	BREAK, ROUND.
	MATCH LINE INDICATOR
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	NEW CONNECTION POINT TO EXISTING

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CATCH BASIN
M.H.	MANHOLE
———— W.H.	WALL HYDRANT
—————————————————————————————————————	HOSE BIBB
— Ф	CLEANOUT TO GRADE
—ф	FLOOR CLEANOUT
	WALL CLEANOUT
	1/2 GRATE
	3/4 GRATE
	FULL GRATE

DEFINITIONS

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON

NOTE: ALL DEFINITIONS MAY NOT BE USED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

LOCATION IS INTENDED.

ENGAGED TO PERFORM.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE

PLUMBII	NG PIPING LEGEND
SYMBOL	DESCRIPTION
CWV	COMBINATION WASTE AND VENT
	SOIL, WASTE - ABOVE GRADE (SW)
	SOIL, WASTE - BELOW GRADE (SW)
GW	GREASE WASTE - ABOVE GRADE
GW	GREASE WASTE - BELOW GRADE
	VENT (V)
	ACID VENT
AW	ACID WASTE - ABOVE GRADE
AW	ACID WASTE - BELOW GRADE
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRC (DHWR)
180	180°F HOT WATER
180R	180° HOT WATER RETURN
160	160° HOT WATER
160R	160° HOT WATER RETURN
RW	RAINWATER - ABOVE GRADE
	RAINWATER - BELOW GRADE
SRW	SECONDARY RAINWATER ABOVE GRADE
	SECONDARY RAINWATER BELOW GRADE
SD	STORM DRAIN
VTR	VENT THRU ROOF
	NON POTABLE WATER
(E)	EXISTING PIPE
(E)	EXISTING PIPE TO BE REMOVED
IW	IRRIGATION WATER
ss	SANITARY SEWER
W	WATER
PWS	PURE WATER SUPPLY
PWR	PURE WATER RETURN
G	GAS
FP	FIRE PROTECTION
LPG	PROPANE
VAC	VACUUM
A	COMPRESSED AIR
MA	MEDICAL AIR
o	OXYGEN
NO	NITROUS OXIDE
N	NITROGEN
CO2	CARBON DIOXIDE
EVAC	EVACUATION

SYMBOL LEGEND SYMBOL DESCRIPTION VALVES, METERS, AND GAUGES \bowtie SHUT OFF VALVE **GATE VALVE** CHECK VALVE 込 **AUTO 2-WAY VALVE AUTO 3-WAY VALVE** GLOBE VALVE BALL VALVE RELIEF VALVE CHAIN OPERATED GATE VALVE PRESSURE REDUCING VALVE **BUTTERFLY VALVE** SOLENOID VALVE ANGLE VALVE $\not \sqsubseteq$ VENTURI BALANCING OR PLUG COCK FLOW SETTER EXPANSION VALVE (REFRIG.) GAS COCK MANUAL AIR VENT X MAV 7 STRAINER GAUGE COCK \circ \bowtie FLEXIBLE CONNECTION PRESSURE GAUGE THERMOMETER VICTUALIC COUPLING REDUCER CONCENTRIC REDUCER ECCENTRIC

REFRIGERANT SITE GLASS

REFRIGERANT STRAINER

90 DEG ELBOW UP

90 DEG TEE UP

CAPPED PIPE

ANCHOR

UNION

90 DEG TEE DOWN

90 DEG ELBOW DOWN

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 \exists

REFRIGERANT FILTER DRIER

FLOAT AND THERMOSTATIC TRAP

	ABBREVIATIONS
N	OTE: ALL ABBREVIATIONS MAY NOT BE USED.
Ξ)	EXISTING
D IR COND	ACCESS DOOR AIR CONDITION(-ING,-ED)
PD	AIR PRESSURE DROP
D un	BALANCING DAMPER
HP TU	BRAKE HORSE POWER BRITISH THERMAL UNIT
TUH	BTU/HOUR
FH FM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE
LG	COOLING
OMP OND	COMPONENT CONDENS(-ER, -ING, -ATION)
V	CONTROL VALVE
B	DRY BULB TEMPERATURE
CW HW	DOMESTIC COLD WATER DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRC
IA ISCH	DIAMETER DISCHARGE
P	DEPTH OR DEEP
A ER	EXHAUST AIR ENERGY EFFICIENCY RATIO
FF	EFFICIENCY
G LFC	ETHYLENE GLYCOL
LEC LEV	ELECTRIC ELEVATION
NT	ENTERING
VAP WT	EVAPORAT(-E, -ING, -ED, -OR) ENTERING WATER TEMPERATURE
XT	EXTERNAL
C O	FLEXIBLE CONNECT(-OR, -ION) FIRE DAMPER
_A	FULL LOAD AMPS
))	FINS PER INCH
PM PS	FEET PER MINUTE FEET PER SECOND
SD	FIRE SMOKE DAMPER
AL E	GALLON(S) GREASE EXHAUST
PH	GALLONS PER HOUR
PM D	GALLONS PER MINUTE HEAD
D G	MERCURY
P	HORSEPOWER
R T	HOUR HEIGHT
TG	HEATING
Z)	HERTZ (FREQUENCY) INSIDE DIAMETER
l	INCH
N AT	KILOWATT LEAVING AIR TEMPERATURE
BS	POUNDS
3	LENGTH LATENT HEAT
H RA	LOCKED ROTOR AMPS
/G	LEAVING
NT BH	LEAVING WATER TEMPERATURE THOUSAND BTU PER HOUR
CA	MINIMUM CIRCUIT AMPS
FR C	MANUFACTUR(-ER, -ED) NORMALLY CLOSED
C	NOISE CRITERIA
IC	NOT IN CONTRACT
O PSH	NORMALLY OPEN NET POSITIVE SUCTION HEAD
TS	NOT TO SCALE
A D	OUTSIDE AIR OUTSIDE DIAMETER
Z	OUNCE
D G	PRESSURE DROP OR DIFFERENCE PROPOLENE GLYCOL
PM	PARTS PER MILLION
RESS SF	PRESSURE POUNDS PER SQUARE FOOT
sr Sl	POUNDS PER SQUARE INCH
SIA	PSI ABSOLUTE
SIG	PSI GAUGE THERMAL RESISTANCE
A	RETURN AIR
ECIRC EFR	RECIRCULATE REFRIGERATION
EQD	REQUIRED
LA PM	RATED LOAD AMPS REVOLUTIONS PER MINUTE
A A	SUPPLY AIR
C	SHADING COEFFICIENT
CFM CW	STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER
F	SAFETY FACTOR
H	SENSIBLE HEAT SEA LEVEL
- P	STATIC PRESSURE
PEC(S)	SPECIFICATION(S)
Q TD	SQUARE STANDARD
W	SOIL, WASTE
4(R) 4(S)	TRANSFER AIR (RETURN) TRANSFER AIR (SUPPLY)
A(S) D	TEMP. DROP OR DIFF.
EMP JEDM	TEMPERATURE
HERM OT	THERMAL TOTAL
STAT	THERMOSTAT
AC	VENT VACUUM
AV	VARIABLE AIR VOLUME
EL ENT	VELOCITY
ENT ERT	VENT, VENTILATION VERTICAL
FD	VARIABLE FREQUENCY DRIVE
OL 'B	VOLUME WET BULB TEMP

- THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN
- THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT.
- THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
- PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- 3 ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
- . THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8 ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 9 PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR MOVEMENT
- 10 PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALL OR FLOOR TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT.
- 11 ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1). PERFORATED METAL STRAPS OR PLASTIC STRAPPING (PLUMBER TAPE) SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE.
- 12 PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF DIRECTION.
- 13 PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES IN DIRECTION GREATER THAN 45-DEGREES.
- 14 ALL STEEL CLEVIS HANGERS USED TO SUPPORT COPPER PIPING SHALL BE COPPER OR PLASTIC COATED.
- 15 COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED LUMBER. PROVIDE 1/2" THICK SLIP-ON CLOSED CELL INSULATION WHERE COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
- 16 ALL EXPOSED PIPING SHALL BE INSTALLED IN A NEATLY ARRANGED MANNER PARALLEL TO THE BUILDING STRUCTURE.
- 17 ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE POLISHED
- 18 ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS UNDER SINKS SHALL BE POLISHED CHROME PLATED.
- 19 DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL PROVIDE ALL

ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING CODE.

- 20 ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT.
- 21 ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE SLOPED IN
- 22 SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM.

DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT.

- 23 SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
- 24 ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE JOB SITE ELEVATION.
- 25 FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT SHALL BE USED. THE SELECTED PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS DIFFERENT THAN THAT SCHEDULED.
- 26 ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
- 27 SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
- 28 ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
- 29 FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF STANDARDS.

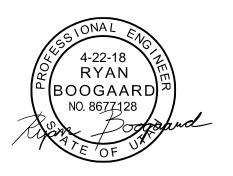
PLUMBING SHEET INDEX
PLUMBING COVER SHEET
PLUMBING DETAILS AND SCHEDULES
LEVEL 19 PLUMBING DEMO PLAN
LEVEL 19 WATER & GAS PIPING PLAN

PL102 LEVEL 19 DRAIN, WASTE, & VENT PIPING PLAN

PLUMBING GENERAL NOTES

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ARCHITECT / CONSULTANT



PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE **CENTER LVL 19**

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME:

PLUMBING COVER SHEET

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 ISSUE TYPE: 100% CD DRAWN BY:

CHECKED BY: RHB PROJECT#: 1750

SHEET NUMBER:

WG

WPD WT

WTR

WET BULB TEMP WATER COLUMN

WATER GAUGE

WEIGHT

WATER

WATER PRESSURE DROP