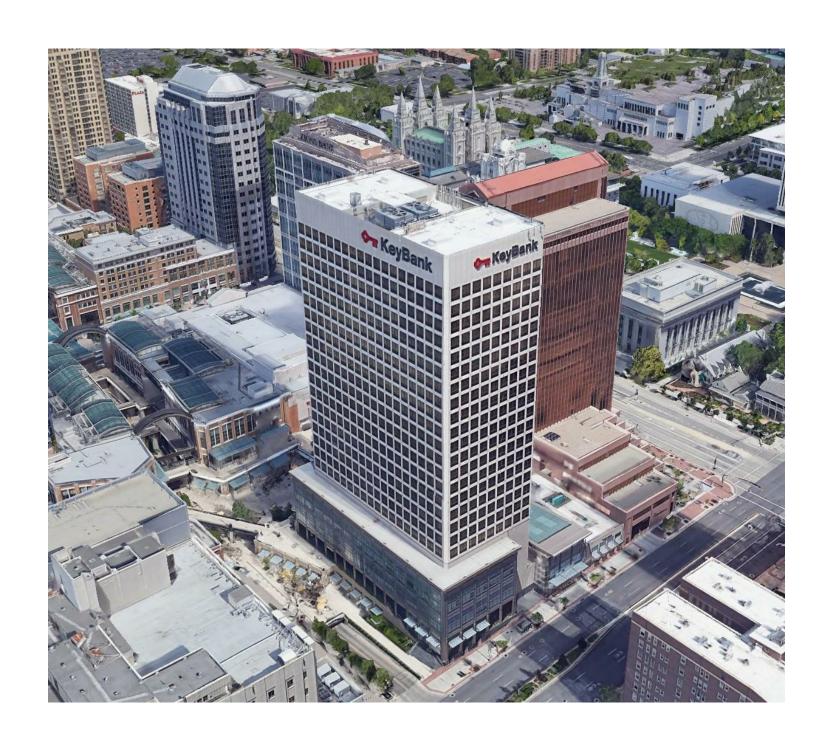
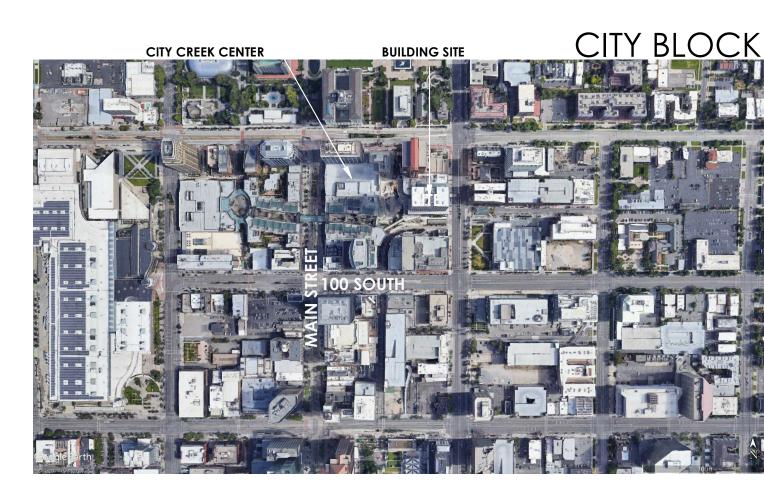
# IHC LEVEL 09 TENANT IMPROVEMENT







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SHEET NAME:

TITLE SHEET

REVISIONS

MARK DATE DESCRIPTION

**CD PERMIT SET** ISSUE TYPE: DRAWN BY: KL & SR CHECKED BY: K. RIGBY PROJECT#:

03/26/2020

1953

SHEET NUMBER:

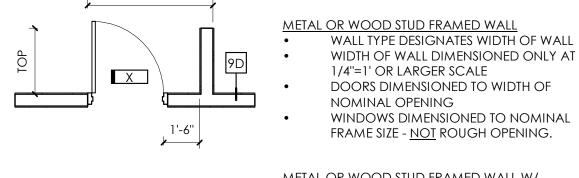
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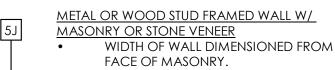
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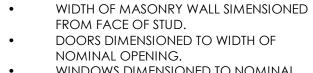
# DIMENSIONING LEGEND (TYPICAL PLAN VIEWS)

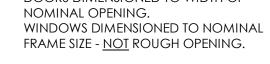
#### **NEW CONSTRUCTION**

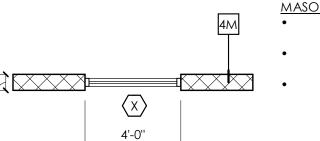
ALL NEW CONSTRUCTION IS SHOWN HATCHED & SHADED AS ILLUSTRATED BELOW ALL NEW CONSTRUCTION IS FULLY NOTED AS SHOWN BELOW. ALL WORK IS NEW UNLESS LABELED "EXISTING"











4'-0''

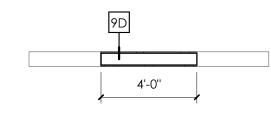
WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE.

DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING. WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - <u>NOT</u> MASONRY OPENING.

ACTUAL WIDTH OF WALL DIMENSIONED DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING. WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT ROUGH OPENING.

# **NEW CONSTRUCTION AT EXISTING**

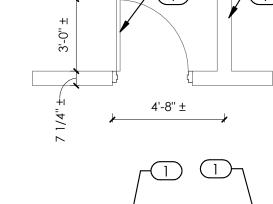
NEW CONSTRUCTION SHOWN HATCHED W/ THICKER LINE. ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.



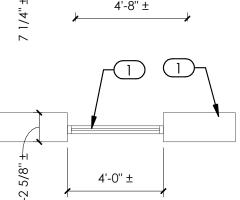
4'-0''

## **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.



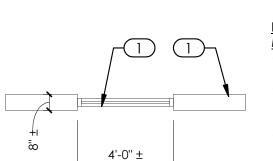
METAL OR WOOD STUD FRAMED WALL WIDTH OF WALL DIMENSIONED TO FINISHED FACE. DOORS DIMENSIONED TO NOMINAL DOOR SIZE EXCLUDING WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE.



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

NOMINAL FRAME SIZE.

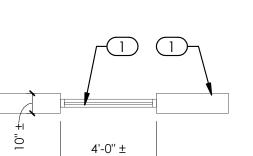
WINDOWS DIMENSIONED TO



MASONRY WALL (TO REMAIN) WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE. DOORS DIMENSIONED TO nominal door size EXCLUDING FRAME. WINDOWS DIMENSIONED TO

NOMINAL FRAME SIZE.

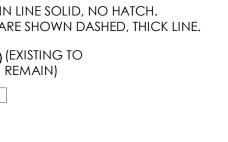
NOMINAL FRAME SIZE.



CONCRETE WALL (TO REMAIN) NOMINAL WIDTH OF WALL DIMENSIONED. DOORS DIMENSIONED TO NOMINAL DOOR SIZE EXCLUDING WINDOWS DIMENSIONED TO

# **DEMOLITION AT EXISTING**

ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH. ALL COMPONENTS TO BE DEMOLISHED ARE SHOWN DASHED, THICK LINE. (DEMOLISH / (EXISTING TO EXISTING)



# **SYMBOLS**

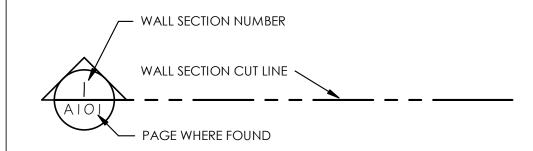
CENTER LINE WORK POINT OR ELEV. BENCH MARK # NUMBER DIAMETER OR ROUND DEGREE **NORTH ARROW** & AND **GRID HEAD** 

# **DETAIL TAGS** DETAIL NUMBER DETAIL CUT LINE

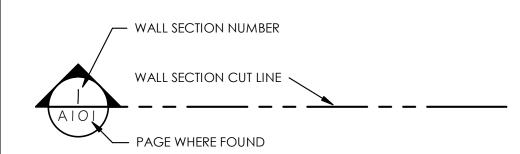
PAGE WHERE FOUND

DETAILED AREA

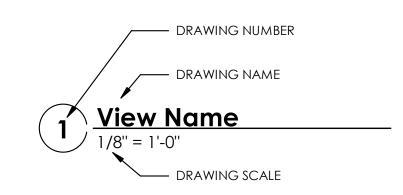
#### **WALL SECTION TAG**



#### **BUILDING SECTION TAG**



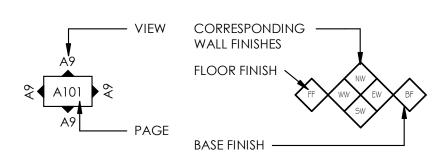
#### **DRAWING TITLE**



#### **ELEVATION TAGS**

#### **ROOM FINISH TAG**

DATUM TAG



#### MISCELLANEOUS KEYED NOTE SYMBOLS

WINDOW/CURTAIN WALL DESIGNATION. SEE WINDOW SCHEDULE.

2 GLAZING MODIFIER

FM9

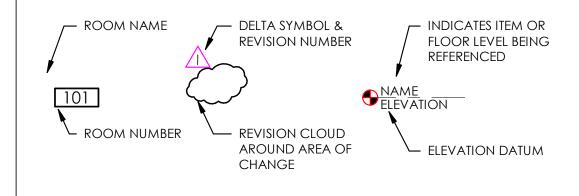
GLAZING DESIGNATION.

DOOR DESIGNATION. SEE DOOR 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 BE TERMINATED BY WINDOWS OR DOORS UNO.

### ROOM NAME TAG REVISION CLOUD & TAG



# **GENERAL NOTES:**

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

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR 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 ALI DRAWINGS AND SPECIFICATIONS WITH ALL SUBCONTRACTORS REGARDLESS OF LOCATION IN CONTRACT DOCUMENTS. ITEMS LISTED IN DRAWINGS MAY NOT BE NCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.

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.

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.

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 BY THE ARCHITECT.

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).

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

THE GENERAL CONTRACTOR SHALL MAINTAIN MEANS OF EGRESS AND FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED DURING CONSTRUCTION &

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

THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE

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 TO 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 SUPERINTENDENT.

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 METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED

PROVIDE 2" STAINLESS STEEL METAL CORNER GUARD AT ALL OUTSIDE CORNERS OF PLASTER AND DRYWALL SURFACES WHERE INDICATED.

ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH

UNLESS OTHERWISE NOTED, ALL 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 AND 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 ROOF AND INTERIOR SHAFTS.

35 LIVE LOADS SHALL NOT EXCEED THOSE LISTED ON IBC 1607.1

#### **DEFERRED SUBMITTALS:**

APPROPRIATE SEALANT MATERIAL

1. BUILDING FIRE SPRINKLER WORK 2. BUILDING FIRE ALARM SYSTEM WORK 3. SUSPENDED CEILING SYSTEMS 4. SEISMIC RESTRAINTS FOR ELECTRICAL 5. SEISMIC RESTRAINTS FOR HVAC AND PLUMBING 6. GLASS DEFLECTION CALCULATIONS FOR BUTT GLAZING CONDITIONS

### **NOTES TO BIDDERS:**

REFERENCE SPECIFICATIONS FOR INCLUDED ALLOWANCES: 1. EXISTING GYP. BD. PATCHING & REPAIR 2. EXISTING CONCRETE FLOOR SLAB PERPARATION FOR NEW FLOORING 3. EXISTING PENETRATIONS FIRE STOPPING

furniture is shown for reference only and will be owner provided, bu' SHOULD BE COORDINATED DURING CONSTRUCTION BY THE CONTRACTOR. CONTRACTOR TO COORDINATE ANY AND ALL CONCERNS FOR POWER, PLUMBING, ELECTRICAL, MILLWORK, ETC. AND COORDINATION WITH OWNER-PROVIDED FURNITURE AND APPLIANCES.

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 KEY BANK TOWER BUILDING ON LEVEL 9 INCLUDE DEMOLITON REQUIRED FOR IMPROVEMENTS AND NEW CONSTURCTION OF TYPICAL OFFICE COLLABORATION ROOMS, MEETING ROOMS, OPEN OFFICE AREAS, BREAK ROOM, LOBBY AREAS, WATING AREA, STOARAGE ROOMS, MECHANCIAL ROOMS, DATA ROOMS, UPDATED RESTROOMS, AND ELECTIRCAL ROOMS. MECHANICAL AND ELECTRICAL UPGRADES ARE REQURIED INCLUDING NEW DEVICES, FIXTURES, AND EQUIPMENT. NEW PLUMBING FIXTURES AND APPLIANCES ARE REQUIRD. STRUCTURAL IMPROVENTS ARE REQUIRD FOR NEW HIGH DESITY STORAGE LOADING. PATCH AND REPAIR OF EXISITING BUILDING ELEMENTS ARE REQUIRED AFTER DEMOLITION PRIOR TO CONSTURCTION. MAINTAIING FIRE RATED CONSTRUCITON, ACCOUSTICAL, AND ENVELOPE REQUIRMENTS IS REQUIRED.

SPECAIL CONDITIONS ARE REQURIED INCLUDING A PHASED CONSTRUICON PLAN FOR THE DATE CENTER ROOM 926, WORKING AFTER HOURS, NOISE CONTROL, SECURITY, EQUIPMENT ISOLATION, DUST CONTROL, MAINTAINING EXISITNG ELECTICAL/MECHANCILA SYSTEMS, MAINTIANG EXISTING FIRE SURPRESSION SYSTEMS. AND PERMITS.

DEMOLITON, PATCH/REPAIR, NEW COSNTRICION AND COORDIANTION OF SPECIAL CONDITIONS IS REQURIED ON LEVEL 08 ONLY AS NEED FOR ADDED REINGFORCING OF THE LEVEL 09 FLOOR STRUCTURAL MEMEBERS AND TO PROVIDE THE LEVEL OF QUALITY, MARTIERALS AND FINISHES MATCHING THE EXISTING COSNTRUCITON PRIOR TO BEGING WORK.WORK INCLUDES STRUCTURAL SEET CONNECTIONS, FIREPROOFING, AND HOT WORK PERMITS.

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 OR NEW FINISHES, SEE FINISH PLANS.

#### **SPECIAL INSPECTIONS:**

GENERAL CONTRACTOR TO PROVIDE SPECIAL INSPECTION FOR PENETRATIONS STRUCTAUL STEEL AND FIRE PROOFING INSPECTIONS.

# **NEW MATERIALS LEGEND (TYPICAL SECTION VIEWS)**

CONCRETE

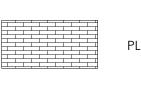
MASONRY UNIT

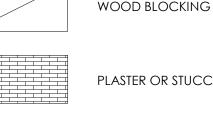
PLYWOOD

**BATT INSULATION** 

FINISHED WOOD MEMBER







**ALUMINUM** 

MINERAL WOOL

SHEET NUMBER:

ISSUE TYPE:

4'-0''

GYP. BOARD

RIGID INSULATION

CONTINUOUS WOOD

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

ajc architects



ARCHITECT / CONSULTAN

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE LEVEL 09 TI

**KEY PRIVATE BANK** CITY CREEK CENTER **36 SOUTH STATE STREET** SALT LAKE CITY, UT 84111

SHEET NAME:

GENERAL NOTES LEGENDS ABBREVIATIONS

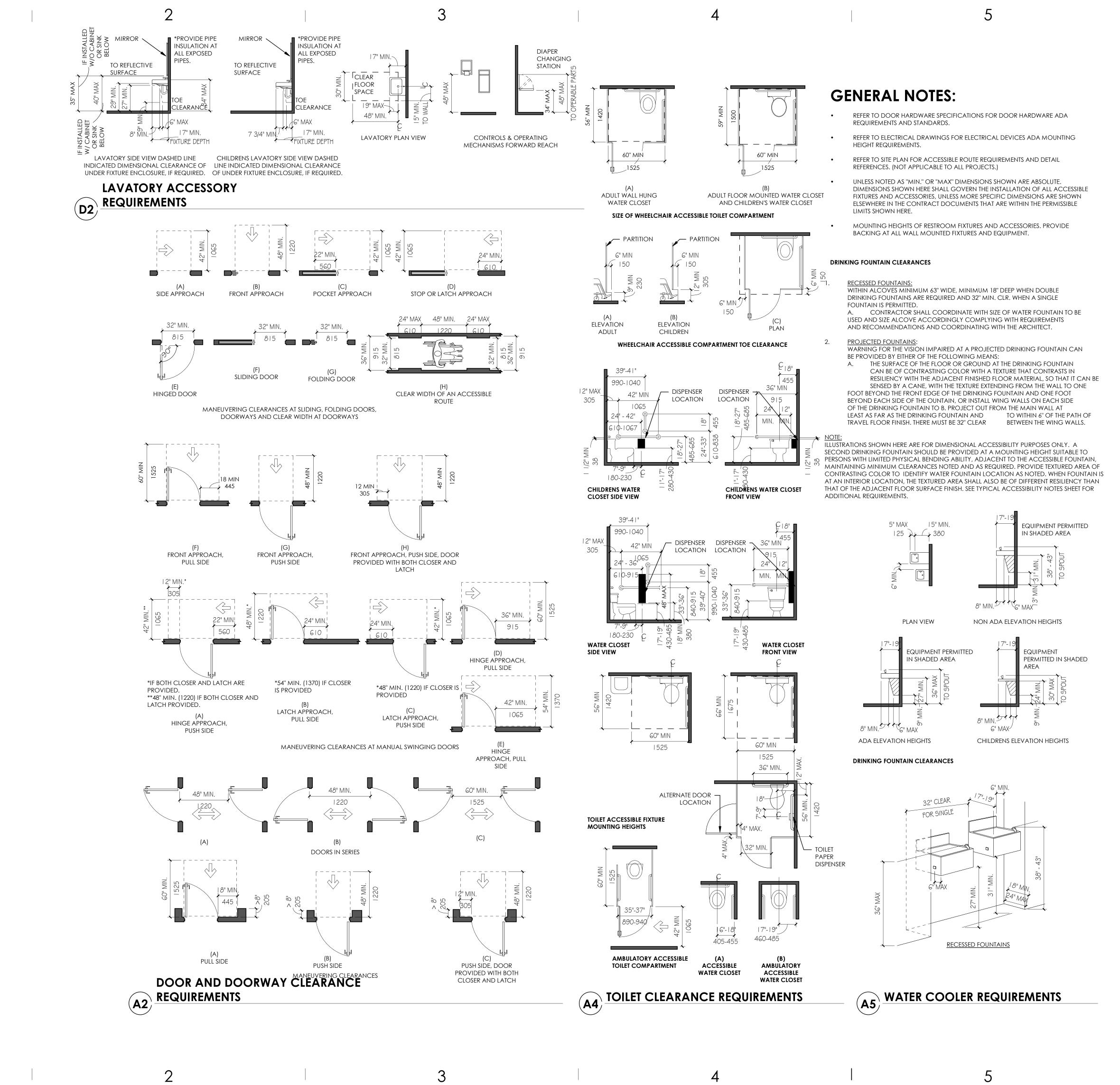
REVISIONS

MARK DATE DESCRIPTION

**ISSUE DATE:** 03/26/2020

CD PERMIT SET

DRAWN BY: KL & SR CHECKED BY: K. RIGBY PROJECT#: 1953



ajc architects
703 east 1700 south

KENT R. RIGBY
No. 135096

ARCHITECT / CONSULTANT

salt lake city, ut 84105

ajcarchitects.com

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE LEVEL 09 TI

KEY PRIVATE BANK
CITY CREEK CENTER
36 SOUTH STATE STREET
SALT LAKE CITY, UT 84111

SHEET NAME:

ADA REQUIREMENTS

revisions

MARK DATE DESCRIPTION

ISSUE DATE: 03/26/2020
ISSUE TYPE: CD PERMIT SET

DRAWN BY: KL & SR

CHECKED BY: K. RIGBY PROJECT#: 1953

SHEET NUMBER:

G1003

FOR HEARING IMPAIRED

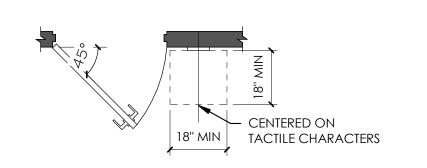
INTERNATIONAL SYMBOL FOR ACCESS

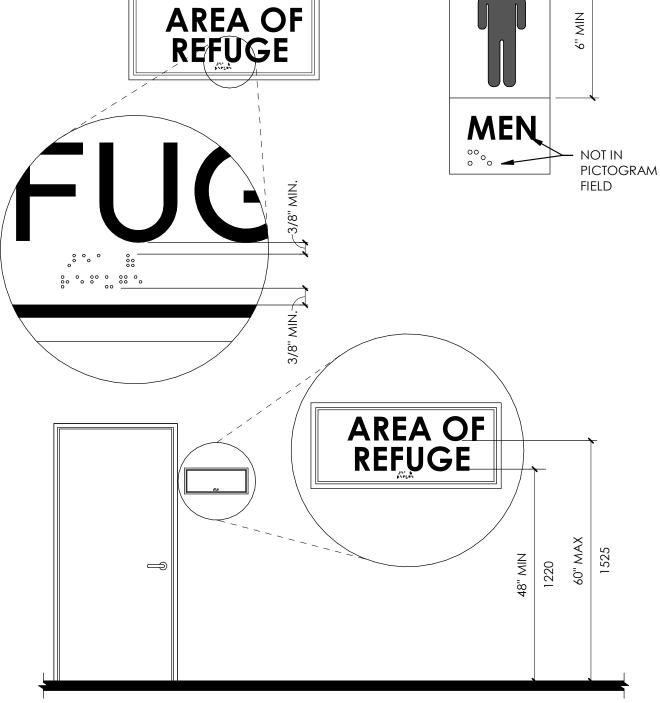


**PROPORTIONS** 

VOLUME CONTROL

INTERNATIONAL TDD SYMBOL





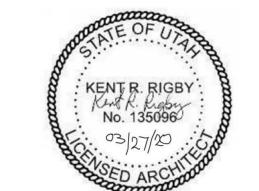
DOOR SIGNAGE

# **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
- 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.

FIXTURES AND ACCESSORIES, UNLESS MORE SPECIFIC DIMENSIONS ARE SHOWN



ARCHITECT / CONSULTANT

ajc architects

703 east 1700 south

salt lake city, ut 84105 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: 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)

#### PROJECT DESCRIPTION

**KEY PRIVATE BANK** 

CITY CREEK CENTER

SALT LAKE CITY, UT 84111

INTERMOUNTAIN HEALTHCARE LEVEL 09 TI

**AUTHORITY HAVING JURISDICTION** 

# **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 36 SOUTH STATE STREET 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 SHALL 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.

SHEET NAME:

REVISIONS

MARK DATE

ADA REQUIREMENTS

DESCRIPTION

03/26/2020

KL & SR

K. RIGBY

1953

**CD PERMIT SET** 

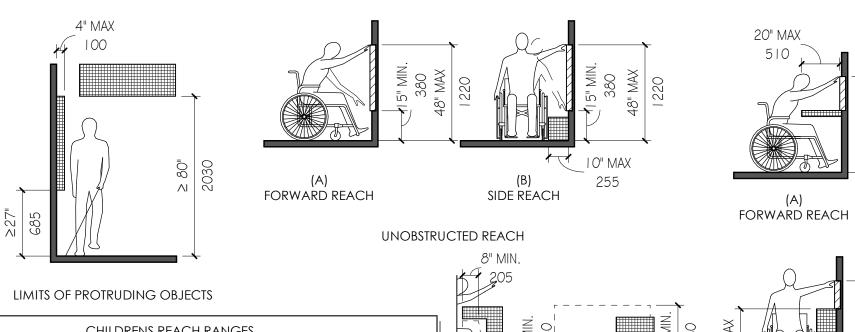
### INTERNATIONAL SYMBOL OF ACCESSIBILITY:

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.

B4 SIGNS - PICTOGRAMS



CHILDRENS REACH RANGES AGES 3 & 4 AGES 5 - 8 AGES 9 - 12 FORWARD OR SIDE REACH HIGH (MAXIMUM) 36" (915MM) 40" (1015MM) 44" (1120MM) **ELEVATION** 20" (510MM) 18" (455MM) 16" (405MM) OW (MINIMUM)

TOE & KNEE CLEARANCE

10" MAX 255

>10"-24" MAX / 255-610 SIDE REACH

FORWARD REACH

SHEET NUMBER:

CHECKED BY:

PROJECT#:

D1) REACH REQUIREMENTS

SIDE REACH

OBSTRUCTED HIGH REACH

ISSUE DATE:

ISSUE TYPE:

DRAWN BY:



**GENERAL SHEET REFERENCE** GI001 DRAWING INDEX G1002 GENERAL NOTES

AE001 CODE PLAN **AE003-5** UL WALL ASSEMBLIES **AE006** UL RATED PENETARTIONS

#### DO NOT SCALE DRAWINGS.

- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- ALL EXISTING GYP. BD. WALL SURFACES TO BE PATCHED AND REPAIRED TO ATTAIN A LEVEL 5 FINISH. ALL NEW GYP. BD. WALL SURFACES TO BE FINISHED TO A LEVEL 5 FINISH.
  - ALL EXPOSED SURFACES TO RECIEVE FINISH. ANY SURFACE WITHOUT A FINISH DESIGNATION TO RECIEVE GENERAL FINISH FROM FINISH LEGEND.
- CONTRACTOR IS REQUIRED TO MAINTAIN ALL EXISITNG FIRE RATED CONSTURCTION AND IS RESPONSIBLE TO PATCH & REPAIR OR REPLACE EXISTING FIRE RATED ASSEMBLIES AS REQUIRED.
- PROVIDE BLOCKING FOR ALL CASEWORK, COUNTERTOPS, SHELVING & WALL HUNG ACESSORIES AS REQUIRED. RE: **AE530** - DETAILS
- CENTER FLOOR BOXES IN ROOMS U.N.O
- REFER TO ENLARGED PLANS FOR MORE DETAIL.
- REFER TO LOCATIONS OF HORIZONTAL LOUVERS AND ROLLER SHADES ARE SHOWN ON THE RCP.

#### **KEYED NOTES:**

- COLUMN, STUDS, AND WALL BOARD TO REMAIN.
- STUD FURRING AND GYP. BOARD TO REMAIN. PATCH AND REPAIR ALL EXISTING WALLS AS REQUIRED PER ALLOWANCE. SEE SPECIFICATIONS. ALL DASHED MODULAR WALL SYSTEMS TO BE REMOVED.
- ALL DASHED DOORS INCLUDING HARDWARE, AND FRAMES TO BE ALL CARPET FLOORING, BASE, AND ADHESIVE TO BE REMOVED.
- FIRE RATED WALL TO REMAIN. RE AE002 ALL ACOUSTIC PANEL AND GRID CEILING ASSEMBLIES TO BE REMOVED U.N.O.
- ALL SIGNAGE TO BE REMOVED.
- ALL RECESSED FIRE HOSE ASSEMBLY TO BE REMOVED. FRAME TO REMAIN, DOOR AND HARDWARE TO BE REMOVED.

ALL TOILET PARTITIONS TO BE REMOVED.

- ALL WALL VENEER TO BE REMOVED. GYP. WALLBOARD TO REMAIN. WALL BOARD TO BE REMOVED FOR NEW ELECTRICAL. PATCH AND REPAIR AREAS WHERE ITEMS HAVE BEEN DEMOLISHED.
- RECESSED MAIL CHUTE TO BE REMOVED. ALL TOILET ROOM BASE, FLOORING, AND WALL TILE TO REMAIN.
- ALL TOILET ROOM STUD WALL AND GYP. BOARD TO REMAIN. PLUMBING FIXTURE TO REMAIN.
- PLUMBING FIXTURE TO BE REMOVED. RE PD101 COUNTER TOP, SUPPORTS, AND COMPONENTS TO REMAIN. ALL TOILET ROOM MIRRORS TO BE REMOVED.
  - CEILING TO REMAIN. ALL TOILET ROOM ACCESSORIES TO BE PROTECTED AND STORED FOR REINSTALL.

- ALL EXTERIOR WINDOW SILL AND BASE DIFUSTER GRILLS TO REMAIN. ALL BASEBOARD AND ADHESIVE TO BE REMOVED.
- ALL EXTERIOR WINDOWS TO REMAIN WALL AND FINISH TO REMAIN.
- ALL TILE BASE, FLOORING, AND SETTING BEDS TO BE REMOVED. ALL CARD READERS AND INFASTRUCTURE TO BE REMOVED. ALL ADA DOOR ACTUATOR BUTTONS AND INFASTRUCTURE TO BE REMOVED.
- ALL GYP. BOARD CEILINGS AND SOFITS TO BE REMOVED, CEILING FRAMING TO BE REMOVED AS REQURIED. ALL VYNIL FLOORING, RUBBER BASE, AND ADHESIVE TO BE REMOVED.
- ALL CASEWORK AND SHELVING, SUPPORTS AND COMPONENTS TO BE REMOVED. FIRE RATED CONCRETE FLOORING TO BE CORE DRILLED FOR NEW
- PLUMBING CONNECTION. LOCATION APPROXIMATE, COORDINATE W/ GC FOR EXACT LOCATION. FIRE RATED CONCRETE FLOORING TO BE CORE DRILLED FOR NEW FLOOR BOX. LOCATION APPROXIMATE, COORDINATE W/ GC FOR EXACT
- GYPSUM BOARD TO BE REMOVED
  - CEILING TO BE REMOVED SKIM COAT AND PREPARE ALL EXISTING GYP. BD. WALL SURFACES ON EXISTING BUILDING CORE WALLS TO REMAIN TO ACHIEVE A LEVEL 5 FINISH;

# RELATED SHEET REFERENCE

PAINT. SEE FINISH PLAN AND FINISH LEGEND.

**AE002** - CODE PLAN (FIRE RATINGS) MD101 - MECHANICAL DEMOLITION PLAN PD101 - PLUMBING DEMOLITION PLAN **ED109** - ELECTRICAL DEMOLTION PLAN

#### **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, MECHANICAL, AND PLUMBING 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 SHOWN TO REMAIN 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 U.N.O.

AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED.

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ARCHITECT / CONSULTANT

**AUTHORITY HAVING JURISDICTION** 

HEALTHCARE LEVEL 09 TI

PROJECT DESCRIPTION

INTERMOUNTAIN

**KEY PRIVATE BANK** CITY CREEK CENTER

SHEET NAME:

PLAN

REVISIONS

MARK DATE

**ISSUE DATE:** 

ISSUE TYPE:

DRAWN BY:

CHECKED BY:

PROJECT#:

SHEET NUMBER:

DEMOLITION FLOOR

DESCRIPTION

03/26/2020

KL & SR

K. RIGBY

1953

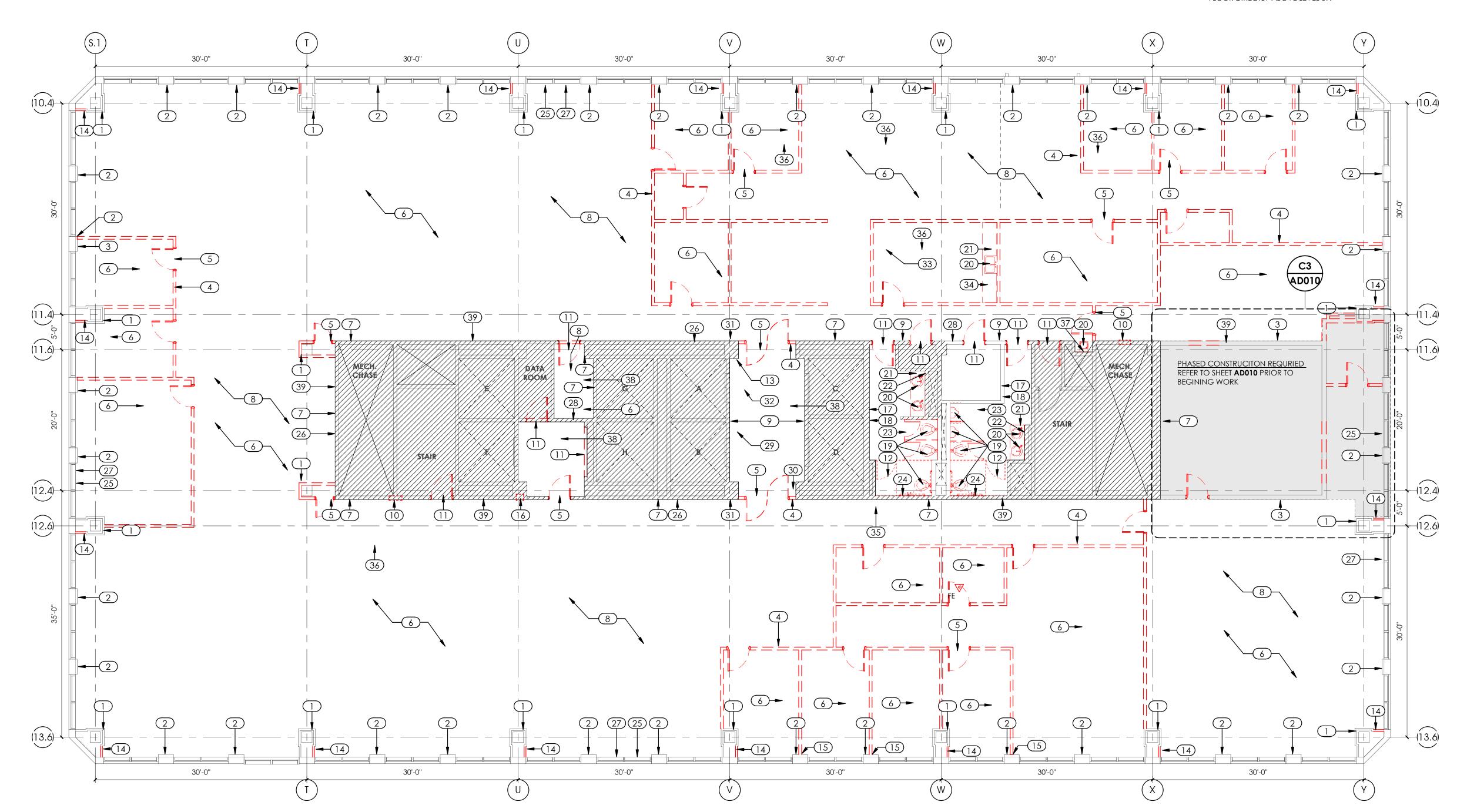
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**36 SOUTH STATE STREET** SALT LAKE CITY, UT 84111

No. 135096

salt lake city, ut 84105

- WALLS THAT ARE NOTED TO BE DEMOLISHED SHOULD ALSO INCLUDE ALL EXISTING DOORS, CASEWORK, AND VENEER MATERIALS ASSOCIATED WITH THOSE WALLS.
- ALL REMAINING WALLS SHOULD HAVE FINISHES DEMOLISHED TO A GRAY SHELL CONDITION, THIS INCLUDES THE REMOVAL OF ANY EXISTING SURFACE VENEER MATERIALS, WAINSCOT MILLWORK, OR WALLPAPER IN ORDER TO TAKE THE WALLS BACK DOWN TO A WALL BOARD ONLY SURFACE. ANY DAMAGED EXISTING GYP. BD. TO REMAIN SHALL BE PATCHED AND REPAIRED ACCORDING TO ALLOWANCE - SEE SPECIFICATIONS.
- 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 FRAME.
- 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 ACCORDING TO ALLOWANCE - SEE SPECIFICATIONS. EXISTING PENETRATIONS CAUSED BY PAST RENOVATIONS PROJECTS TO THE SPACE SHOULD BE REPAIRED AS WELL AS ANY NEW PENETRATIONS CAUSED BY THE DEMOLITION ACTIVITIES. SEE SPECIFICATIONS FOR ALLOWANCE AMOUNT.
- CONTRACTOR SHOULD EVALUATE ANY DEMOLITION REQUIRED IN THE FLOOR & CEILING 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.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING CEILING REPAIR & REPLACEMENT COSTS INCLUDING FOR THE CEILING DIRECTLY BELOW AND THE FLOOR DIRECTLY ABOVE LEVEL 09.



FLOOR PLAN - DEMOLITION

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

AD100

**DEMOLITION NOTES:** USE THIS SHEET FOR <u>REFERENCE ONLY</u> TO COORDIANTE DEMOLITON AND CONSTRUCTION REQUIRED FOR INSTALLING NEW REINFORCEMENT TO THE FLOOR STRUCTURE OF LEVEL 09. ALL APLICABLE REQUIREMENTS IN THE GENERAL DEMOLITION NOTES ON SHEET AD100 APPLY. ALL WORK MUST BE COORDINATED WITH THE BUILDING OWNER, TENNATES, AND BUILDING FACILITES PRIOR TO BEGING WORK. GC IS RESPONSIVLE FOR COORDINATING ALL SPECIAL NEEDS AS REQUIRED INCLUDING BUT NOT LIMITED TO WORKING AFTER NORMAL BUISNESS HOURS, SPECAIL COORDINATION, NOISE CONTROL, DUST CONTOL, AND PERMITS. GC IS RESPONSIBLE FOR MEETING AND MAINTAINING CURRENT FIRE CODE AND CONSTRUCITON AS WELL ALL BUILDING SYSTEM COORDIATION REQUIREMENTS. GC IS RESPONSIBLE FOR ALL LEVEL 08 COORDINATION AND CONSTRUCION REQURIED TO MATCH THE LEVEL OF QUALITY, MARTIERALS AND FINISHES PRIOR TO BEGING WORK WORK ON LEVLE 08 IS REQUIRED ONLY AS NEED FOR THE ADDED REINGFORCING TO THE LEVEL 09 FLORO STUCTURE. LINE & HATCH TYPES AREA NOT IN CONTRACT **EXISTING** NOTE: SELECTIVE DEMOLITION AND RECONSTRUCTION WILL BE REQUIRED IN THIS AREA TO INSTALL NEW STEEL STRUCTURE REPRESENTED ON SHEET S2O2- THIS SHOULD BE INCLUDED IN THE GENERAL CONTRACTORS (G.C.) BID. EACH G.C. SHOULD VISIT THE PROJECT SITE AND DEVISE A CONSTRUCTION STRATEGY FOR DELIVERY OF THE BEAMS, INSTALLATION OF THE BEAMS, AND RECONSTRUCTION OF THIS AREA. N.I.C. NOTE: SELECTIVE DEMOLITION AND RECONSTRUCTION WILL BE REQUIRED IN THIS AREA TO INSTALL NEW STEEL STRUCTURE REPRESENTED ON SHEET S2O2-THIS SHOULD BE INCLUDED IN THE GENERAL CONTRACTORS (G.C.) BID. EACH G.C. SHOULD VISIT THE PROJECT SITE AND DEVISE A CONSTRUCTION STRATEGY FOR DELIVERY OF THE BEAMS, INSTALLATION OF THE BEAMS, AND RECONSTRUCTION OF THIS AREA. DEMO & RECONSTRUCTION REFLECTED CEILING PLAN - LEVEL 08 SCALE: 1/8" = 1'-0"

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ARCHITECT / CONSULTANT

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE LEVEL 09 TI

KEY PRIVATE BANK
CITY CREEK CENTER
36 SOUTH STATE STREET
SALT LAKE CITY, UT 84111

SHEET NAME:

REFLECTED CEILING PLAN - LEVEL 08

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: ISSUE TYPE: 03/27/20 CD PERMIT SET

DRAWN BY: Author
CHECKED BY: Checker
PROJECT#: 1953

SHEET NUMBER:

**LAD110** 

# **GENERAL STRUCTURAL NOTES**

#### A-325 BOLT SCHEDULE A325N BOLTS Maximum Beam SIZE IN EA BEAM DEPTH GROUP NO. PER BEAM SIZE 7/8"Ø W8 BEAM WEB CONNECTION PLATES. THICKNESS EQUALS BEAM WEB

STL BM

THICKNESS + 1/8" (3/8" MINIMUM).

(2) FILLET WELDS SHALL BE AS FOLLOWS: 1/2 PLATE THICKNESS PLUS 1/16" TWO SIDES..... (1/4" MINIMUM) EACH SIDE ANGLES..... ANGLES THICKNESS MINUS 1/16" (1/4" MINIMUM)

THICKNESS EQUALS BEAM FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MINIMUM).

(4) BOLT EDGE DISTANCE SHALL BE 1 1/2" MINIMUM AT ALL EDGES, BOLT SPACING SHALL BE 3" MINIMUM

WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW.

(6) CLIP ANGLES: (2) L5x3 1/2". THICKNESS SHALL BE EQUAL TO ONE HALF THE BEAM WEB THICKNESSPLUS 1/16" (1/4" MIN) FOR (2) ROWS OF BOLTS OR SKEWED CONNECTIONS, USE BENT PLATES WHERE COLUMN WIDTH IS SMALLER THAN THE CONNECTION CLIP ANGLES, ANGLE LEGS MAY BE REDUCED TO MATCH WIDTH OF COLUMN. USE L4x4 ANGLES AT BEAMS TO CONCRETE WALL OR COLUMN CONNECTIONS.

BAR t x 3/8" BEVEL t \ WEB PL(1) **CONDTION A** FOR SKEWS UP FOR SKEWS OVER 30 BACKING TO 30 TO 40 DEGREES BAR t x 3/8" DEGREES BEVEL t \ BEAM TO BEAM WEB PLATE CONNECTION (MIN) TO PROVIDE CONDTION C CLEARANCES FOR SKEWS UP TO 30 DEGREES

SHEAR CONNECTOR PLATES

TYPICAL BOLTED WEB PLATE CONNECTION WITH BOLT

SCHEDULE

S101 NO SCALE:

EXISTING CONCRETE OVER METAL DECK **EXISTING** STEEL BEAM C8x11.5xCONT

EXISTING STEEL BEAM REINFORCING

#### representative of M J Structural Engineers. **STRUCTURAL STEEL**

**GENERAL** 

additional cost to the owner.

Codes and Standards: Fabrication and installation shall comply with the latest edition of the following: American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".

Changes to these contract drawings may be made only by an authorized representative of the

claims arising directly or indirectly from changes made without written authorization by an

engineer or architect. The architect or engineer shall not be held responsible or liable for any

Omissions or conflicts between the contract drawings and/or specifications shall be brought to

the attention of the architect/engineer before proceeding with any work involved. In case of

procedures in order to comply with the contract drawings and specifications. The contractor

are completed. The building shall not be considered stable until all connections are completed.

Walls shall not be considered self-supporting and shall be braced until the floor/roof system is

shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members

The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc.

contract drawings shall be reported to the architect/engineer.

written approval will be at the contractor's risk.

waterproofing, finishes, chamfers, kerfs, etc.

engineer before proceeding with the work.

construction, the procedures, nor special inspection.

Sizes and locations of mechanical and other equipment that differs from those shown on the

The contractor shall submit a written request to the architect/engineer before proceeding with

The contractor shall verify all site conditions and dimensions. If actual conditions differ from

The structural notes are intended to complement the project specifications. Specific notes and

drawings. The structural drawings shall be used in conjunction with the architectural and other

consultants' drawings. Most dimensions and most non-structural elements such as elevations,

drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings,

Shop drawings made from reproductions of the drawings will be rejected unless the contractor

Review of shop drawing submittals by the engineer is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the

All work shall be done in accordance with OSHA requirements. Potential conflicts between these documents and OSHA requirements shall be brought to the attention of the structural

Site observations by the engineer and or architect shall not be construed as approval of

The terms "Engineer" and "Engineer of Record" (EOR) are meant to refer to an authorized

architect/engineer before proceeding with the fabrication or construction of any affected

those shown in the contract drawings, the contractor shall immediately notify the

details in the drawings shall govern over the structural notes and typical details. Typical details and sections shall apply where specific details are not shown.

signs a release agreement prior to the shop drawings being reviewed.

responsibility of completing the project according to the contract documents.

Detailing and shop drawing production for structural elements will require information

(including dimensions) contained in the architectural, structural and/or other consultants'

depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural

any changes, substitutions, or modifications. Any work done by the contractor before receiving

conflict, follow the most stringent requirement as directed by the architect/engineer at no

The contractor shall be responsible for means, methods, techniques, sequences, and

AISC "Code of Standard Practice" excluding sections 3.4, 4.4 and 4.4.1. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"

AISC "Seismic Provisions for Structural Steel Buildings." American Welding Society (AWS), Structural Welding Codes D1.1, D1.3, D1.4, and D1.8, except as modified by the "Steel Construction Manual".

Material: Wide Flange Sections ASTM A992 (50 ksi) ASTM A36

Notch-toughness requirements apply for Group 3, 4, and 5 shapes with flange thickness greater than 11/2" and plate 2" and thicker which are a part of the Seismic Load Resisting System (SLRS). Minimum Charpy V-Notch requirements are 20 ft-lbs at 70°F. ASTM A53 Grade B Type E/S ASTM A36

Other Structural Shapes (M, C, etc) ASTM A325 Bolted Connections Weld Filler Metal Shielded Metal Arc Welding AWS A5.1, low-hydrogen only

attaching these steels to structural members. Gas-Metal & Metal-Cored Arc Welding AWS A5.18 Flux-Cored Arc Welding E7XT-4 or E7XT-11 electrodes are not permitted.

Low-hydrogen restrictions do not apply when welding sheet steels in accordance with AWS D1.3, including

Intermixing of welds made from self-shielded welding electrodes with gas-shielded electrodes is not allowed in seismic critical welds, unless tested in accordance with AWS D1.8, annex B. The Field Erection Contractor is responsible for verifying intermixing of self-shielded and gas-shielded welding will not occur, or alternatively, the welding procedure is qualified by testing. Use E70 class electrodes only, unless noted otherwise. E60 class electrodes may be used for welding

steel floor and roof decks. All electrodes to be low hydrogen. Structural Detailing • Provide full depth web stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be

the thickness called out below unless noted otherwise. Stiffeners shall be welded on both sides of the plateto-flange and plate-to-web interfaces. Do not weld into the web-to-flange fillet region of the member. FLANGE WIDTH STIFFENER THICKNESS WELD SIZE Less than 8 1/4" 3/16" 8 1/4" to 12 1/4" 1/4" Bolting and Fasteners

connection used throughout the design drawings, unless noted otherwise: Use A325N bolts or tension-controlled bolts. Tighten these fasteners to a "snug tight" condition. Where a steel-to-steel connection is not shown, provide a standard AISC framed connection of one half the total uniform load capacity of the beam for the span and steel specified.

Ordinary steel-to-steel connections, simple span framing, and beam/girder-to-bearing plates are the standard

• All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown, they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.

Field weld symbols indicate welds that may be performed in the field. The general contractor shall coordinate shop and field welds between the fabricator and erector.

### **BASIS FOR DESIGN**

1.	Govering Building Code	International Building Code 2018
2.	Risk Category	<u>II</u>
3.	Floor Live Loads	
•	Uniformly Distributed Loads	
	<ul> <li>Offices + Partitions</li> </ul>	50 psf + 20 psf
	<ul> <li>Lobbies &amp; Main Floor Cooridors</li> </ul>	100 psf
	Corridor Above Main Floor	80 psf
	<ul> <li>Light Storage Loads</li> </ul>	125 psf
•	Concentrated Loads, all areas	2000 lbs
4.	Serviceability Criteria	
•	Deflection Limits	Live
	• Floor	L/700

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ARCHITECT / CONSULTANT



**AUTHORITY HAVING JURISDICTION** 

PROJECT DESCRIPTION INTERMOUNTAIN HEALTHCARE KEY BANK TOWER LEVEL 09

36 S STATE STREET SALT LAKE CITY, UT 84111

SHEET NAME:

GENERAL STRUCTURAL NOTES AND DETAILS

REVISIONS

DESCRIPTION

ISSUE DATE: 03/27/2020 ISSUE TYPE:

PERMIT SET DRAWN BY: CHECKED BY: BH PROJECT#:

SHEET NUMBER:

S101/ (E) W16X26 (E) W16X31 (34) (E) 16X26 (30) (E) 16X26 (30) (E) 16X31 (34) (E) 16X31 (34) (E) 16X31 (34) NOTE: F.V. = FIELD VERIFY 2 LEVEL 09 FLOOR FRAMING PLAN

1/8" = 1'-0"



ARCHITECT / CONSULTANT



AUTHORITY HAVING JURISDICTION

INTERMOUNTAIN
HEALTHCARE KEY BANK
TOWER LEVEL 09

36 S STATE STREET SALT LAKE CITY, UT 84111

SHEET NAME:
FLOOR FRAMING PLAN
- LEVEL 09

REVISIONS

MARK DATE DESCRIPTION

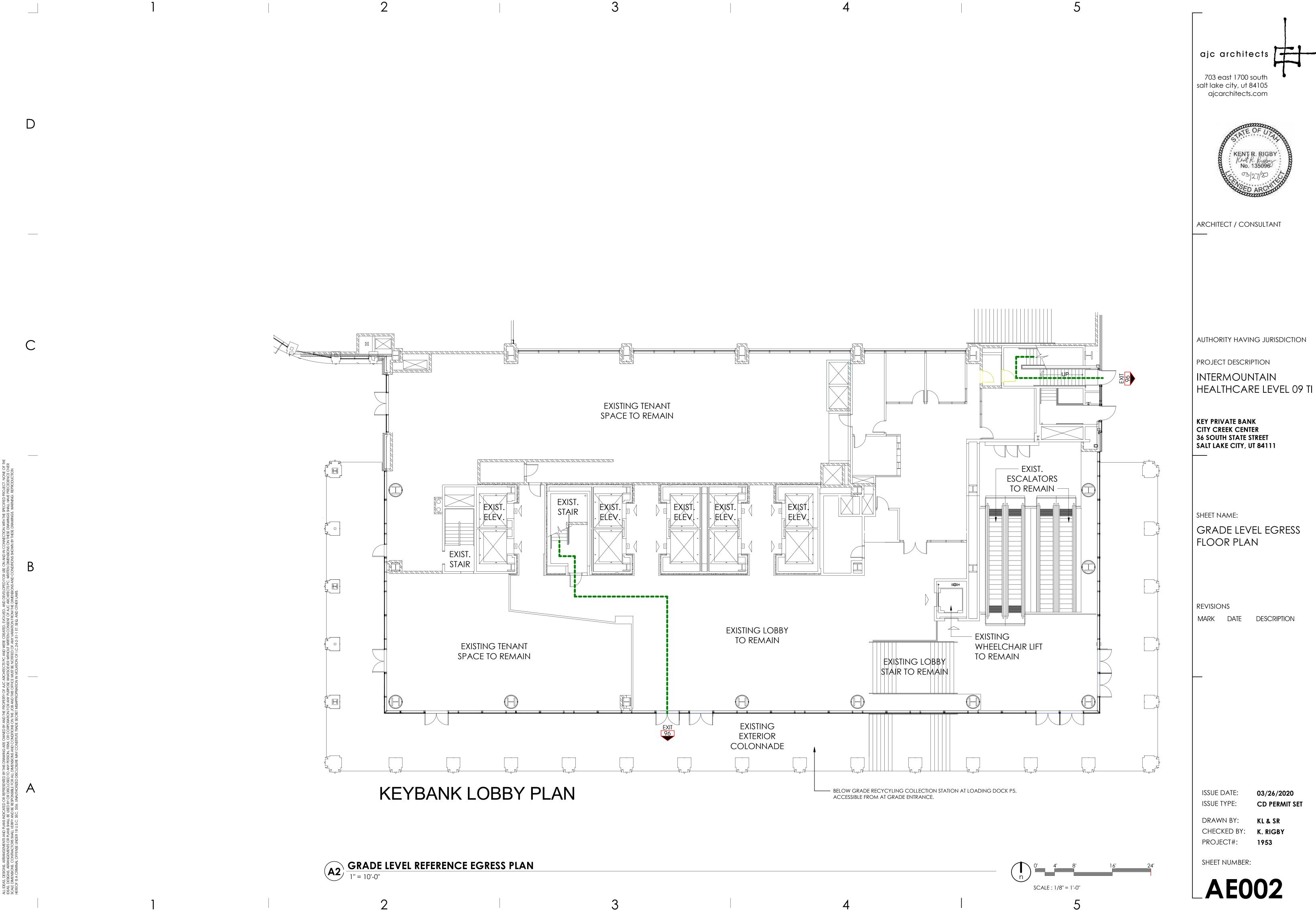
DRA CHI

STRUCTURAL ENGINEERS

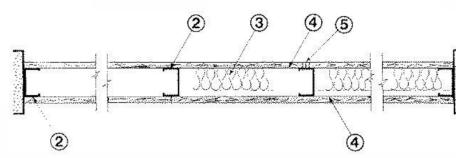
5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097 mjstructuralengineers.com ISSUE DATE: 03/27/2020
ISSUE TYPE: PERMIT SET
DRAWN BY: SDB / BH
CHECKED BY: MJ
PROJECT#: 19326

SHEET NUMBER:

**S202** 



September 28, 2018



1. Floor and Ceiling Runners — (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

**UNITED METAL PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

1B. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 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 — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — 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.

1D, Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in, deep by min 3-5/8 in, wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in, wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in, OC max, KIRII (HONG KONG) LTD — Type KIRII

1G. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC 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

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 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

1J. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. STEEL INVESTMENT GROUP L L C — AlphaTRAK

1K. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in, deep, fabricated from min 25 MSG (0.018 in, min, bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

1L. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 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. CRACO MFG INC — SmartTrack20™

2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly

2A. Framing Members\* — Steel Studs — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and

Type SUPREME D20 **UNITED METAL PRODUCTS INC —** Type SUPREME D24/30EQD and Type

2B. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length

CRACO MFG INC — SmartStud20™

SUPREME D20

than assembly height.

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

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. Steel Studs — (As an alternate to Item 2, For use with Item 4E) — Channel shaped, fabricated 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.

2D. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

2F. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly

KIRII (HONG KONG) LTD — Type KIRII

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G, Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. TELLING INDUSTRIES L L C — Viper20™

21. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1 channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly EB METAL INC — NITROSTUD

2J. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly OLMAR SUPPLY INC — PRIMESTUD

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in, wide by 3-5/8 in, deep, 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™

2L. Framing Members\* — Steel Studs — As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than STEEL INVESTMENT GROUP L L C — AlphaSTUD

2M. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

2N. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in, wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. CRACO MFG INC — SmartStud20™

3. Batts and Blankets\* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

> See Batts and Blankets (BZJZ) category for names of Classified companies.

3A. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft<sup>3</sup>, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only

3B, Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) and Item 3A Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the

product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

3C. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>. INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. Batts and Blankets\* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See Batts and Blankets (BZJZ) category for names of manufacturers.

3E. Batts and Blankets\* - For use with Item 4P and 4R. 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 and Blankets (BKNV or BZJZ) Categories for names of

4. Gypsum Board\* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Items 6 (resilient channels) or 6A, 6B, 6C, 6D, or 6E (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC. ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

**CERTAINTEED GYPSUM INC** — Types 1, EGRG, GlasRoc, Type X, Type X-1, Type C, Type X-2, 5/8" Easi-Lite Type X, Easi-Lite Type X-2

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types

LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing -Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS

PANEL REY S A — Types GREX, PRC, PRC2, PRX, RHX, MDX, ETX

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air. Gyproc DuraLine M2TECH ACTIV'Air.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type

4A. **Gypsum Board\*** — (As alternate to Item 4) — 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. CERTAINTEED GYPSUM INC — Type X, Type X-1, Type C, Type X-2, Type EGRG/

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air. Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air,

THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type

4B. Gypsum Board\* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing. GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of stude need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. When used in widths other than 48 in., gypsum panels to be installed NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C,

4E. Gypsum Board\* — (As an alternate to Items 4 through 4D) — Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 12 in. OC.

min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-

GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

use with Type USGX)

wide, installed as described in Item 4A with screw length increased to 1-1/4 in. CGC INC — Types AR, IP-AR

4C. Gypsum Board\* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick

4D. Gypsum Board\* — As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

4F. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered

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ajcarchitects.com



ARCHITECT / CONSULTANT

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE LEVEL 09 TI

**KEY PRIVATE BANK** CITY CREEK CENTER 36 SOUTH STATE STREET SALT LAKE CITY, UT 84111

SHEET NAME:

UL LISTINGS - SMOKE **BARRIER** 

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE:

ISSUE TYPE:

DRAWN BY: CHECKED BY: K. RIGBY

SHEET NUMBER:

PROJECT#: 1953

03/26/2020

KL & SR

**CD PERMIT SET** 

1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. **CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C** — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board\*** — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock

4I. Gypsum Board\* — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Type SCX

4J. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — 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. Gypsum board 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. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. **Gypsum Board\*** — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. **CGC INC** — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). 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 S-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 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 max 0.085 in. thick.

Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. Gypsum Board\* — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C, Type X-2

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. Wall and Partition Facings and Accessories\* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L C, DBA PABCO GYPSUM — Type QuietRock

4O. Gypsum Board\* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO — Type FSW

4P. Gypsum Board\* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4. UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board\*** — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type PG-13

4R. Gypsum Board\* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4.

NATIONAL GYPSUM CO — Type FSLX.

5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel** — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. Steel Framing Members\* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

with Items 4F, 4J, or 4L.

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 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use

b. Framing Members\* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6B. Framing Members\* — (Not Shown) — (Optional on one or both sides) — As an alternate to Item 6, furring channel 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. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) 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 into clips.

PLITEQ INC — Type Genie Clip

6C. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

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 tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6D. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

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 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — Type SonusClip

6E. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members\*** — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock

QR-500 and QR-510

8. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all

intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

HOMASOTE CO — Homasote Type 440-32

9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — 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 S-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 required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4J) — 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 (Item 4J) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) 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 (Item 4E) 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".

10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs 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".

11. **Adhesive** — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

12. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — For

use with Items 1 to 1I, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For

maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length

increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the

required layer(s) of UL Classified Gypsum Board.

MSL — RefleXor membrane, SONOpan panel

#### \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-09-28

#### Design/System/Construction/Assembly Usage Disclaimer

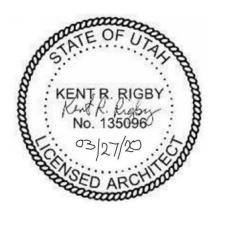
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and
- Authorities Having Jurisdiction should be consulted before construction.
  Fire resistance assemblies and 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
- 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 includes specifics concerning alternate materials and alternate methods of construction.
- materials and alternate methods of construction.Only products which bear UL's Mark are considered Certified.

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ARCHITECT / CONSULTANT

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE LEVEL 09 TI

KEY PRIVATE BANK
CITY CREEK CENTER
36 SOUTH STATE STREET
SALT LAKE CITY, UT 84111

SHEET NAME:

UL LISTINGS - SMOKE BARRIER, CONTINUED

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE:

ISSUE TYPE:

DRAWN BY:

CHECKED BY: K. RIGBY PROJECT#: 1953

03/26/2020

KL & SR

**CD PERMIT SET** 

SHEET NUMBER:

**AE004** 

2. **Steel Studs** — Channel shaped, 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.

2A. Steel Studs - (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) Channel shaped, fabricated 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) - Proprietan 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 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

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

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.

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.

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

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25"

3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper20<sup>TN</sup>

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

ALLSTEEL & GYPSUM PRODUCTS INC — 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

DMFCWBS L L C — ProSTUD

RAM SALES L L C - Ram ProSTUD

CRACO MFG INC — SmartStud25™

PHILLIPS MFG CO L L C — Viper25™

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.

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.

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 TELLING INDUSTRIES L L C — TRUE-STUD™

nd installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment TELLING INDUSTRIES L L C — Viper25™

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.

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

the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in. (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

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

joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

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

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

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 the stud with 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 batten strips to have a purity of 99.9% meeting the Federal specification Q2-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stuc 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 ax thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Ope 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.

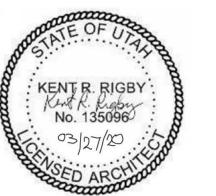
12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 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

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

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

ajcarchitects.com



ARCHITECT / CONSULTANT

AUTHORITY HAVING JURISDICTION

PROJECT DESCRIPTION

**KEY PRIVATE BANK** CITY CREEK CENTER **36 SOUTH STATE STREET** SALT LAKE CITY, UT 84111

SHEET NAME: **UL LISTINGS - EXISTING** 

MARK DATE DESCRIPTION

KL & SR

 $\textbf{SCAFCO STEEL STUD MANUFACTURING CO} - \mathsf{Type} \ \mathsf{SUPREME} \ \mathsf{Framing} \ \mathsf{System}$ 

**STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME Framing System  ${f UNITED\ METAL\ PRODUCTS\ INC}$  — Type SUPREME Framing System

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.

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING - ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

SUPER STUD BUILDING PRODUCTS — The Edge

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

1F. 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 fabricat from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC

1G. Framing Members\* - Floor and Ceiling 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.

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.

1I. Framing Members\*—Floor and Ceiling Runners— (Not shown, As an alternate to Item 1) — For use with Item: 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and

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.

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.

B.	4 516		S0. 19
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

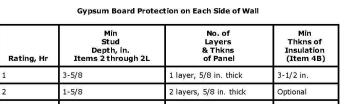
wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. Symbol in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed 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.

UNITED STATES GYPSUM CO - Type ULX

5J. **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 poposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-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 may 8 ling with a may thickness of 0.14 in 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 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 max .085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C"

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. orizontal 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 need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:



Design No. N779 Restrained Beam Ratings - 1, 1-1/2, 2, 3 & 4 Hz Unrestrained Beam Ratings - 1, 1-1/2, 2, 3 & 4 Hr 2-10° \* 22

 Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying in more than one coat to beam and in one coat to steel deck to final thicknesses shown below. Steel surfaces must be clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf, respectively. Min avg and min individual density of 22/19 pcf respectively for Types Z-106, Z-106/G, Z-106/HY. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, refer Crest areas above the beam shall be filled with Spray-Applied Fire Resistive Materials Normal Weight Concrete

MK-1000/HB, MK-1000/HB Extended Set. GRACE KOREA INC -Types MK-6/HY, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-6/HY Extended Set

4A. Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying in more than one coat to beam and in one coat to steel deck to final thicknesses shown below. Crest areas above the beam shall be filled with Spray-Applied Fire Resistive Materials. Steel surfaces must be clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf, respectively. For method of density determination, refer to Design Information Section, The thickness of Spray-Applied Fire Resistive Materials shown in the table below are only applicable when the beams are supporting floor assemblies containing only fluted floor and form units, topped with concrete as specified

ARABIAN VERMICULITE INDUSTRIES - Type MK-6GF, MK-6 GF Extended Set

ARABIAN VERMICULITE INDUSTRIES —Types MK-6GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, Z-106, Z-106/HY, Z-106/G, Z-146 inves-

layers, 5/8 in. thick

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

21. 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

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.

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

DRAWN BY:

SHEET NUMBER:

ONLINE CERTIFICATIONS DIRECTORY

Only products which bear UL's Mark are considered Certified.

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

Page Bottom

BXUV.U419

Fire Resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

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 protect for the design. Here of five protections contacting to a device to consult the general Guide Information for each

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 includes specifics concerning alternate materials and alternate

BXUV - Fire Resistance Ratings - ANSI/UL 263

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

Design No. U419

May 28, 2015

\* 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.

1-5/8

UNITED STATES GYPSUM CO - Type FRX-G, SHX

USG MEXICO S A DE C V − Type SHX.

Service. Always look for the Mark on the product.

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

6. Gypsum Board\* — 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 in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and 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

**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

 $\begin{array}{l} \textbf{USG MEXICO S A DE C V} - 1/2 \text{ in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; <math>3/4$  in. thick Types IP-X3 or ULTRACODE \\ \end{array}

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.

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

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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layer, 5/8 in. thick l layer, 1/2 in. thick

l layer, 3/4 in. thick

ayers, 1/2 in. thick

ayer, 3/4 in. thick

ayers, 1/2 in. thick

avers, 3/4 in, thick ayers, 5/8 in. thick

ayers, 1/2 in. thick

2 layers, 3/4 in. thick

 Steel Beam — W8x28 or alternate (per Section IV.6 in the front of the Fire Resistance Directory) steel beam. Normal Weight or Lightweight Concrete — Compressive strength, 3000 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight 148 pcf. For lightweight concrete, unit weight 110 pcf.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100. TELLING INDUSTRIES L L C — TRUF-TRACK™

**TELLING INDUSTRIES L L C** — Viper $25^{\text{\tiny TM}}$  Track

 ${f CSC\ INC}-1/2$  in. thick Type C, IP-X2 or IPC-AR;, 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

**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 5H. **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 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used

USG MEXICO S A DE C V − Type ULX

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

Load Restricted for Canadian Applications - See Guide BXUV7

Steel Floor and Form Units\* — Min 1/2 in. to 1-5/16 in. deep corrugated or 1-1/2 to 3 in. deep fluted type, welded to beam.

W R GRACE & CO - CONN —Types MK-6/HY, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, Z-106, Z-106/HY, Z-106/G, Z-146, Z-146T, Z-146T, Z-156T and Z-156PC investigated for exterior use.

**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 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

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. Third layer- 3 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below.

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.

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 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. **KINETICS NOISE CONTROL INC** — Type Isomax

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ISSUE DATE: 03/26/2020 ISSUE TYPE: CD PERMIT SET

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.

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, paced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. ypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and

CHECKED BY:

 Floor and Cailing Runners — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. 1A. Framing Members\* - Floor and Cailing Runner — Not shown - In lieu of Item 1 — For use with Item 28, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25\*\* Track

CRACO MFG INC - SmartTrack25TH

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

18. Framing Mambers\* - Floor and Cailing Runnar — 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

 ${f QUAIL\,RUN\,BUILDING\,MATERIALS\,INC}$  — Type SUPREME Framing System

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20\*\* Track PHILLIPS MFG CO L L C — Viper20™ Track

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

1C. Framing Members\*- Floor and Ceiling Runners - (Not shown) - In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC, max. ALLSTEEL & GYPSUM PRODUCTS INC = Type SUPREME Framing System

RAY-BAR ENGINEERING CORP — Type RB-LBG 5C. Gypsum Board\* — (For Use With Item 2B) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels 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 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 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 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. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

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.

UNITED STATES GYPSUM CO — Type USGX.

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

USG MEXICO S A DE C V — Type USGX.

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**UNITED STATES GYPSUM CO** — Type SCX, SGX

ecured 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. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO - Nelco 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

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

Gypsum Board Protection on Each Side of Wall

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. Wallboard

studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick 3 lavers, 5/8 in, thick

GRACE KOREA INC —Type MK-6 GF, MK-6 GF Extended Set W R GRACE & CO - CONN —Type MK-6 GF, MK-6 GF Extended Set

NOTE: 2 HOUR FIRE RATED CONSTRUCTION IS EXISTING. **UL DESIGN SHOWN FOR REFERENCE & REPAIRS** 

r 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 ir 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. Second layer- 1-5/8 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. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 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 or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-1/4 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.

> 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, S12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for the property of the pr for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PACINTERNATIONALINC — 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 below:

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

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.

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 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 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 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

PLITEQ INC - Type GENIECLIP

**REVISIONS** Page Top

K. RIGBY 1953 PROJECT#: