# SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MISSOURI

CONTACT INFORMATION | U01 **ARCHITECTURAL** CABLE OUTLET 100'-0" **ELEVATION TAG** FLUORESCENT STRIP LIGHT WALL MOUNTED AT 46" A.F.F WALL MOUNTED AT 46" A.F.F. WALL MOUNTED **COVER SHEET** MATCH LINE **SPECIFICATIONS** MATCHLINE CABLE OUTLET FLOOR MOUNTED FLUORESCENT LIGHT HORN STROBE ALARM ELECTRICAL TRANSFORMER SPECIFICATIONS DIRECT/INDIRECT ADJACENT SHEET NUMBER SEE A2/A101 WALL MOUNTED FLOOR AND REFLECTED CEILING PLANS A101 FINISH PLAN AND FINISH LEGEND, CODE PLAN **CARD READER** 220 OUTLET FLUORESCENT LIGHT REVISION NUMBER WALL TYPE, DETAILS, DOOR SCHEDULE, ELEVATION WALL MOUNTED AT 46" A.F.F WALL MOUNTED AT 18" A.F.F. 220 OUTLET FLUORESCENT LIGHT **ENGINEERING** ROOM NAME AND NUMBER **CORE DRILL** FLOOR MOUNTED PARABOLIC LENS **SPECIFICATIONS** DATA OUTLET WALL MOUNTED AT 18" A.F.F FLUORESCENT LIGHT CAMERA SPECIALTY TYPE **EMERGENCY** WALL MOUNTED AT 46" A.F.F. FLOOR PLAN - MECHANICAL MECHANICAL DETAILS, SCHEDULES, NOTES AND SYMBOLS **CEILING FAN** STAIR DIRECTION INDICATOR SMOKE DETECTOR FLOOR PLAN - PLUMBING PLUMBING DETAILS, SCHEDULES NOTES AND SYMBOLS CAN LIGHT SPEAKER **ELECTRICAL MOTOR** FLOOR PLAN - FIRE PROTECTION FLOOR PLANS - ELECTRICAL **ELECTRICAL DETAILS** CAN LIGHT EMERGENCY WINDOW TYPE TRACK LIGHT ELECTRICAL SYMBOLS, SCHEDULES AND GENERAL INTERIOR SECTION NUMBER **DUPLEX OUTLET EXHAUST FAN NEW WALL** CAN LIGHT WALL MOUNTED AT 18" A.F.F WALL WASHING MECHANICAL RETURN GRILL **EXISTING WALL TO REMAIN** INTERIOR ELEVATION NUMBER **CEILING MOUNTED** WALL MOUNTED AT 18" A.F.F. **EMERGENCY LIGHT** EXISTING WALL TO BE REMOVED **ELECTRICAL METER** MECHANICAL SUPPLY GRILL INTERIOR ELEVATION NUMBER **ELECTRICAL PANEL** SPRINKLER HEAD **NORTH ARROW** WALL MOUNTED AT 18" A.F.F. SPECIALTY OUTLET CEILING MOUNTED FLOOR MOUNTED **NEW DOOR** EXIT LIGHT WALL MOUNTED FIRE ALARM PULL STATION STROBE LIGHT GAS METER WALL MOUNTED AT 46" A.F.F WALL MOUNTED FIRE / HORN / STROBE PULL STATION WALL MOUNTED AT 46" A.F.F. DOUBLE SIDED EXIT LIGHT **INSTA HOT** WALL MOUNTED EXTERIOR ELEVATION NUMBER WALL MOUNTED AT 46" A.F.F. EXISTING DOOR TO REMAIN INCANDESCENT LIGHT CEILING MOUNTED FIRE EXTINGUISHER WATER HEATER WALL MOUNTED AT 46" A.F.F WALL MOUNTED AT 46" A.F.F.

WALL MOUNTED AT 46" A.F.F.

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING LAWS AND CODES, AND IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.

2. GC TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

**BREAK LINE** 

**CENTER LINE** 

COLUMN NUMBER

**DETAIL INDICATOR** 

DOOR NUMBER

KEYNOTE

SHEET NUMBER

SHEET NUMBER

SHEET NUMBER

DETAIL NUMBER

SHEET NUMBER

SHEET NUMBER

SHEET NUMBER

**EXTERIOR SECTION NUMBER** 

101

(1)

X30

**X**30

A101

A101

X30 \

X30 \

**ELEVATION INDICATOR** 

3. CALCULATE AND MEASURE REQUIRED DIMENSIONS. DO NOT SCALE DRAWINGS UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO BE TAKEN FROM DESIGNATED DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN DIMENSIONS.

4. ALL ITEMS SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR WILL BE COORDINATED BY THE CONTRACTOR FROM DELIVERY TO INSTALLATION.

5. DIMENSIONS ON DRAWINGS ARE FINISH FACE TO FINISH FACE OF PARTITIONS, COLUMNS, ETC., OR TO WHERE SHOWN, UNLESS OTHERWISE NOTED.

6. THE GENERAL CONTRACTOR (GC, HEREAFTER) UPON SIGNING THE OWNER/GC AGREEMENT, ACCEPTS THE CD (INCLUDING THESE DRAWINGS W/ THE INCLUDED NOTES & DESCRIPTIVE MATERIAL) & AGREES TO EXECUTE THE NECESSARY WORK IN MANNER DESCRIBED THEREIN.

A) UPON EXAMINATION / FAMILIARIZATION OF CD & JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES AND/OR CONFLICTS NOTED, SHALL BE BROUGHT TO THE ATTENTION OF REES MASILIONIS TURLEY ARCHITECTURE, L.L.C. IN WRITING, FOR CORRECTION

B) ANY ELEMENT, WHATSOEVER, REQUIRED BY BUILDING TO BE INCORPORATED IN CONSTRUCTION BUT NOT SPECIFIED IN CD SHALL BE BROUGHT TO ATTENTION OF REES MASILIONIS TURLEY ARCHITECTURE, L.L.C. FOR REVIEW/ACTION.

C) NO MODIFICATIONS / REVISIONS / CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY SO INSTRUCTED AND APPROVED BY OWNER.

D) DURING COURSE OF PROJECT, GENERAL CONTRACTOR SHALL MAKE EVERY EFFORT TO FULLY INFORM ALL CONCERNED PARTIES REGARDING DECISIONS/ACTIONS TAKEN WHICH, IN ANY WAY, MIGHT AFFECT ANY SAID CONSTRUCTION CONDITIONS.

7. ALL EXISTING HOLES/CRACKS IN SLAB AND THOSE RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE FILLED/REPAIRED AND THE SURFACE PATCHED SMOOTH AND LEVEL WITH ADJACENT FLOOR SURFACE, IN A MANNER ACCEPTABLE TO OWNER AND REES MASILIONIS TURLEY

8. GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS. A) ALL "HOLD" DIMENSIONS SHALL BE MONITORED TO

ASSURE CORRECTNESS. B) ANY DIMENSION REVISIONS/MODIFICATIONS ARE TO BE BROUGHT TO ATTENTION OF THE ARCHITECT FOR 9. ALL VERTICAL DIMENSIONS SHALL BE TAKEN FROM "BENCH MARK" OR OTHER SIMILAR GUIDE ESTABLISHED PRIOR TO START OF CONSTRUCTION. HIGH POINTS, LOW POINTS, IRREGULARITIES IN FLOOR SLAB, PARTICULARLY, WHICH COULD IN ANY WAY AFFECT FABRICATION/INSTALLATION WORK OF OTHER TRADES OR VENDORS (I.E., CABINET CONTRACTORS), SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

**ELECTRICAL GENERATOR** 

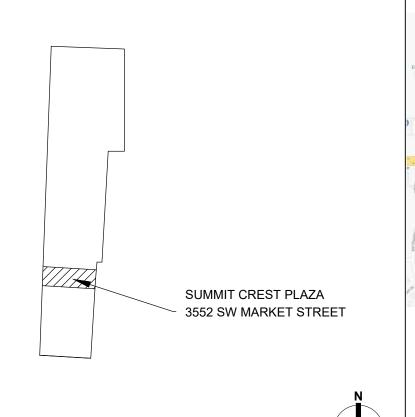
A) VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/2" FOR EVERY 10'-0" IN EVERY DIRECTION WILL REQUIRE LEVELING OF SLAB BY G.C. LEVELING OF SLAB TO BE DONE AS REQUIRED READY TO RECEIVE FLOOR FINISHES, (I,E, VINYL TILE FLOORS, CARPETING, ETC). G.C. TO VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION AND CONTACT LANDLORD.

10. GC, SUBCONTRACTORS, AND ALL VENDORS ARE TO VERIFY ALL CLEARANCES (CORRIDORS, STAIRS, ELEVATORS, ETC.) REQUIRED FOR DELIVERIES AND PASSAGE OF ALL JOB MATERIALS/EQUIPMENT.

11. ALL NECESSARY WOOD BLOCKING / GROUNDS, ETC., ARE TO BE SUPPLIED AS FIREPROOFED ELEMENTS. GC SHALL FULLY COORDINATE SETTING/PLACEMENT OF THESE ELEMENTS AS REQUIRED BY LOCAL CODE/BUILDING OR SURROUNDINGS. A) GROUND/BLOCKING MAY NOT BE WHOLLY SHOWN ON

DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHERE A QUESTION ARISES. B) GC TO PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRYWALL PARTITION CONSTRUCTION THAT ABUT OR RECEIVE MILLWORK OR CABINET WORK CONSTRUCTION. INTERNAL WOOD BLOCKING SHALL BE SUPPLIED FOR STURDY ANCHORAGE AT INTERSECTIONS OF WOOD/GLASS BORROWED LIGHT PARTITIONS AND ADJACENT DRYWALL CONSTRUCTION AS

GENERAL NOTES | A19



INCANDESCENT LIGHT

Aldersgate Q United Methodist

WALL MOUNTED

TENANT LOCATION MAP | A13

Price Chopper Chopper Pharmacy

SUMMIT CREST PLAZA -

SYMBOLS LEGEND | H07

BUILDING LOCATION MAP | A07

2018 INTERNATIONAL BUILDING CODE **BUILDING CODE:** 2018 INTERNATIONAL FIRE CODE

AUTHORITY HAVING JURISDICTION: LEE'S SUMMIT, MISSOURI

2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECH. CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 NATIONAL ELECTRICAL CODE 2010 AMERICANS W/ DISABILITIES ACT

CONSTRUCTION TYPE: OCCUPANCY TYPE: B BUSINESS **FULLY SPRINKLED:** 

816.729.3926 c

greg@lankfordfendler.com

1,387 SQUARE FEET @ 150 SQ FT / OCCUPANT = 10 OCCUPANTS

SHEET INDEX | H01

EXITS REQUIRED: EXITS PROVIDED:

TENANT AREA:

PLEASE REFER TO A19/N102 FOR ADDITIONAL CODE INFORMATION AND CODE PLAN.

DEMOLITION HAS BEEN PERFORMED UNDER DEMOLITION PERMIT NUMBER PRDEM20204720, ISSUE DATE DECEMBER 12, 2020.

CODE INFORMATION | A01

Perspective

2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

WWW.PAD.STUDIO

REES MASILIONIS TURLEY ARCHITECTURE, LLC MISSOURI CERTIFICATE OF AUTHORITY # 00918



MATTHEW MASILIONIS - ARCHITECT MISSOURI # A-6005

I have prepared the drawings and assume esponsibility for the sheets numbered with an "A" prefix for the project named below. Other drawings and specifications attached for the above-mentioned project have been by and are the

esponsibility of the licensed engineer whose stamp and firm appear on that sheet. . The Architect is not responsible for the design of the mechanical, electrical, plumbing, civil, landscaping structural, signage (not specified), fire sprinkler or fire suppression systems; and does not take responsibility for the compliance of these areas with the laws of the above governmental entities. The architect is not responsible for naterials, components or equipment, as well as the method in which they are installed on the project by others. The Architect is not hired or responsible for certification, during construction or upon completion of construction. The Architect is not responsible for mproper operation due to faulty installation or product failure during construction or after completion of construction when operation has begun by the landlord or

The licensed professional whose stamp appears o sheets other than those specifically noted above shall be esponsible for those items in paragraph three.

JORDAN'S **CHIROPRATIC** 

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION

**COVER SHEET** 

SHEET AUTHOR CHECKED BY FEBRUARY 3, 2021

Г	36 35 34 33 32 31
	SECTION 01 10 00 - SUMMARY  1. Project Name: JORDANS CHIROPRATIC
Z	<ol> <li>Architect's Name: Rees Masilionis Turley Architecture, LLC.</li> <li>The Project consists of typical interior office construction /</li> </ol>
_	alteration.
	<ol><li>Coordinate with Owner / Tenant on all items to be supplied and installed by Owner.</li></ol>
	5. Coordinate with Owner / Tenant on occupancy requirements during the construction period.
	6. Coordinate with Owner / Tenant to minimize conflict and to facilitate building operations.
	7. Coordinate with Owner / Tenant on Utility Outages and Shutdowns.
	<ol><li>Provide access to and from spaces as required by law and by Owner.</li></ol>
	9. Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
	10.Do not obstruct roadways, sidewalks, or other public ways without permit.
-	SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES
	1. Coordinate requirements with Owner / Tenant on all pricing and payment procedures.
	SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS
	1. Coordinate requirements with Owner / Tenant for progress meetings,
	construction schedules, shop drawings and submittals.
	SECTION 01 40 00 - QUALITY REQUIREMENTS  1. For products and workmanship specified by reference to a
	document or documents not included in these specifications, also referred to as reference standards, comply with requirements of the
	standard, except when more rigid requirements are specified or are required by applicable codes.
	Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by
	applicable code.
	3. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
	4. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from
	the Contract Documents by mention or inference otherwise in any reference document.
	5. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of
	specified quality.  6. Comply with manufacturers' instructions, including each step in
	sequence.
	7. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
	8. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified
	requirements indicate higher standards or more precise workmanship.
	9. Have Work performed by persons qualified to produce required and specified quality.
	10. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
	11. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and
	disfigurement.
	12.Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
	13. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification
	from Architect before proceeding.  14. Adjust products to appropriate dimensions; position before securing
	products in place.  15.Replace Work or portions of the Work not conforming to specified
	requirements.  16.If, in the opinion of the Owner or Architect, it is not practical to
	remove and replace the Work, the Owner or Architect will direct an appropriate remedy or adjust payment.
	SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS  1. Coordinate requirements and restrictions with Owner / Tenant on all
	temporary utilities, facilities, barriers and enclosures as well as security, vehicle access, parking, waste removal and project signs.
	SECTION 01 60 00 - PRODUCT REQUIREMENTS
	1. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models,
	options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
	2. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection
	requirements, and location of utility outlets for service for functional equipment and appliances.
-	3. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment
	devices. Coordinate sample submittals for interfacing work.
	4. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.
	5. Provide new products unless specifically required or permitted by the Contract Documents.
	6. Where all other criteria are met, Contractor shall give preference to
	products that are extracted, harvested, and/or manufactured closest
	products that are extracted, harvested, and/or manufactured closest to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of
	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.
	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.  7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
-	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.  7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.  8. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting
_	<ul> <li>to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.</li> <li>7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.</li> <li>8. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.</li> <li>9. Furnish extra materials, spare parts, tools, and software of types and</li> </ul>
	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.  7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.  8. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.  9. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.  10. Coordinate schedule of product delivery to designated prepared
	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.  7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.  8. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.  9. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
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	to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.  7. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.  8. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.  9. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.  10. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.  11. Transport and handle products in accordance with manufacturer's

13. Arrange for the return of packing materials, such as wood pallets,

14. Store and protect products in accordance with manufacturers'

where economically feasible.

instructions

32 <sub>I</sub> 28 <sub>l</sub> 29 <sub>l</sub> SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing Architecture, LLC. ce construction / Verify that existing substrate is capable of structural support or attachment of new work being applied or attached. ns to be supplied and Examine and verify specific conditions described in individual specification ncy requirements during Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication. e conflict and to facilitate Verify that utility services are available, of the correct characteristics, and in the correct locations. Outages and Shutdowns. . Prior to Cutting: Examine existing conditions prior to commencing work, uired by law and by including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting g construction period; performance of work. Beginning of cutting or patching means acceptance are temporarily altered. of existing conditions. ther public ways without **PREPARATION** Clean substrate surfaces prior to applying next material or substance. Seal cracks or openings of substrate prior to applying next material or **PROCEDURES** ant on all pricing and Apply manufacturer required or recommended substrate primer, sealer, o conditioner prior to applying any new material or substance in contact or UIREMENTS GENERAL INSTALLATION REQUIREMENTS ant for progress meetings, Install products as specified in individual sections, in accordance with nd submittals. manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement. Make vertical elements plumb and horizontal elements level, unless y reference to a otherwise indicated ese specifications, also Install equipment and fittings plumb and level, neatly aligned with adjacen with requirements of the vertical and horizontal lines, unless otherwise indicated. nents are specified or are Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated. ssue current on date of Make neat transitions between different surfaces, maintaining texture and ific date is established by appearance. **ALTERATIONS** lict with Contract Adapt existing work to fit new work: Make as neat and smooth transition nitect before proceeding es, or responsibilities of Patching: Where the existing surface is not indicated to be refinished, ect shall be altered from patch to match the surface finish that existed prior to cutting. Where the erence otherwise in any surface is indicated to be refinished, patch so that the substrate is ready for the new finish. nufacturers, products, Where rooms or spaces are indicated to be refinished, refinish all visible p, to produce Work of existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent finishes. ncluding each step in Clean existing systems and equipment. . Do not begin new construction in alterations areas before demolition is et with Contract nitect before proceeding **CUTTING AND PATCHING** um quality for the Work Whenever possible, execute the work by methods that avoid cutting or odes, or specified more precise Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing to produce required and work, minimize damage and restore to specified condition. Employ skilled and experienced installer to perform cutting for weather ated on shop drawings or exposed and moisture resistant elements, and sight exposed surfaces. . Cut rigid materials using masonry saw or core drill. Pneumatic tools not horage devices designed allowed without prior approval. physical distortion, and Restore work with new products in accordance with requirements of Contract Documents. ce control of products to . Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations olerances to accumulate. through surfaces. hould manufacturers' At penetrations of fire rated walls, partitions, ceiling, or floor construction, its, request clarification completely seal voids with fire rated material in accordance with Section 07 84 00, to full thickness of the penetrated element. s; position before securing 8. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For conforming to specified an assembly, refinish entire unit. Match color, texture, and appearance. Repair patched surfaces that are damaged, lifted, discolored, or showing it is not practical to other imperfections due to patching work. If defects are due to condition or Architect will direct an of substrate, repair substrate prior to repairing finish. **PROGRESS CLEANING** IES AND CONTROLS Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition with Owner / Tenant on all Remove debris and rubbish from pipe chases, plenums, attics, crawl enclosures as well as spaces, and other closed or remote spaces, prior to enclosing the space. moval and project signs. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust. I. Collect and remove waste materials, debris, and trash/rubbish from site turer's standard published periodically and dispose off-site; do not burn or bury. e products, models, PROTECTION OF INSTALLED WORK ufacturers' standard data Protect installed work from damage by construction operations. fically for this Project; . Provide special protection where specified in individual specification s, utility connection for service for functional Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage. nd aesthetic Provide protective coverings at walls, projections, jambs, sills, and soffits I parts and attachment interfacing work. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, nit samples of the full damage, or movement of heavy objects, by protecting with durable sheet rs, textures, and patterns. equired or permitted by Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from shall give preference to waterproofing or roofing material manufacturer. I/or manufactured closest Remove protective coverings when no longer needed; reuse or recycle

plastic coverings if possible.

carpeted and soft surfaces.

Clean filters of operating equipment.

Adjust operating products and equipment to ensure smooth and

Clean glass, surfaces exposed to view; remove temporary labels, stains

Remove all labels that are not permanent. Do not paint or otherwise

cover fire test labels or nameplates on mechanical and electrical

Clean equipment and fixtures to a sanitary condition with cleaning

Remove waste, surplus materials, and trash/rubbish; dispose of in legal

materials appropriate to the surface and material being cleaned.

Coordinate with Owner / Tenant on project closeout procedures.

and foreign substances, polish transparent and glossy surfaces, vacuum

FINAL CLEANING AND CLOSEOUT PROCEDURES

Use cleaning materials that are nonhazardous.

**ADJUSTING** 

unhindered operation

27 26 <sub>l</sub>

23 <sub>I</sub> 22 <sub>I</sub> 21 <sub>I</sub> 20 SECTION 01 78 00 - CLOSEOUT SUBMITTALS PROJECT RECORD DOCUMENTS . Maintain on site one set of the following record documents; record actual revisions to the Work: Drawings. Addenda. Change Orders and other modifications to the Contract. . Ensure entries are complete and accurate, enabling future reference by Store record documents separate from documents used for construction.

 Record information concurrent with construction progress. i. Record Drawings: Legibly mark each item to record actual construction including: Field changes of dimension and detail. Details not on original

Contract drawings. OPERATION AND MAINTENANCE DATA For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts. . Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information

. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions **OPERATION AND MAINTENANCE DATA** 

FOR MATERIALS AND FINISHES Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning **OPERATION AND MAINTENANCE MANUALS** Prepare instructions and data by personnel experienced in maintenance and operation of described products

. Prepare data in the form of an instructional manual. WARRANTIES AND BONDS Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined. . Verify that documents are in proper form, contain full information, and are

 Co-execute submittals when required. Retain warranties and bonds until time specified for submittal. SECTION 02 41 19 - SELECTIVE STRUCTURE DEMOLITION . Comply with applicable codes and regulations for demolition operations

and safety of adjacent structures and the public. Obtain required permits. 3. Comply with applicable requirements of NFPA 241. 4. Provide, erect, and maintain temporary barriers and security devices.

5. Conduct operations to minimize effects on and interference with adjacent spaces, structures and occupants. 3. Do not close or obstruct roadways or sidewalks without permit. . Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations. . Do not begin removal until receipt of notification to proceed from Owner.

9. Protect existing structures and other elements that are not to be removed. 10. Provide bracing and shoring. 11. Prevent movement or settlement of adjacent structures. 12. Stop work immediately if adjacent structures appear to be in danger.

13. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner. 14. Perform demolition in a manner that maximizes salvage and recycling of 15. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. Verify that construction and utility arrangements are as shown. Report discrepancies

to Architect before disturbing existing installation 16. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition. 17. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and

humidity damage. 18. Remove existing work as indicated and as required to accomplish new 19. Remove existing systems and equipment as indicated.

20. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components 21. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new

systems are complete and ready for service. 22. Verify that abandoned services serve only abandoned facilities before 23. Remove abandoned pipe, ducts, conduits, and equipment, including those

above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification. 24. Protect existing work to remain. 25. Prevent movement of structure; provide shoring and bracing if necessary.

26.Perform cutting to accomplish removals neatly and as specified for cutting 27. Repair adjacent construction and finishes damaged during removal work. 28. Patch as specified for patching new work.

29.Remove debris, junk, and trash from site. 30.Leave site in clean condition, ready for subsequent work.

SECTION 06 10 00 - ROUGH CARPENTRY

. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies. If no species is specified, provide any species graded by any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee and who provides grading service for the species and grade. . Dimension Lumber for Concealed Applications: Nominal sizes as

indicated on Drawings, S4S. Moisture Content: S-dry or MC19. . Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring: S4S, No. 2 or Standard Grade Lumber. Standard or No. 3 Boards. . Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

Treated Lumber and Plywood: Comply with requirements of AWPA U1 -Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

SECTION 06 10 00 - ROUGH CARPENTRY (continued) i. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood. Treat rough carpentry items as indicated.

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'. Fire Retardant Treatment: Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes

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8. Prevent exposure to precipitation during shipping, storage, or installation. 9. Provide lumber stamped with grade mark unless otherwise indicated. 10. Lumber fabricated from old growth timber is not permitted.

Select material sizes to minimize waste. 12. Reuse scrap to the greatest extent possible. 13. Provide temporary ventilation during and immediately after installation of treated wood sufficient to remove indoor air contaminants.

14. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim. 15. In walls, provide blocking attached to stude as backing and support for wall-mounted items, unless item can be securely fastened to two or more

studs or other method of support is explicitly indicated. 16. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly 17. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at

maximum 24 inches on center on all edges and into studs in field of board. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs. Install adjacent boards without gaps.

18. Framing Member Tolerances: 1/4 inch from true position, maximum. 19. Variation from Plane (Other than Floors): 1/4 inch in 10 feet maximum. and 1/4 inch in 30 feet maximum.

**SECTION 06 20 00 - FINISH CARPENTRY** Softwood Lumber: As indicated on Drawings, maximum moisture content of 6 percent; with vertical grain, of quality suitable for transparent finish. Hardwood Lumber: As indicated on Drawings, maximum moisture

content of 6 percent; with vertical grain, of quality suitable for transparent s. Softwood Plywood Not Exposed to View: Any face species, veneer core; PS 1 Grade A-B; glue type as recommended for application.

1. Softwood Plywood Exposed to View: Face species as indicated, plain sawn, medium density fiberboard core; glue type as recommended for application. i. Hardwood Plywood: Face species as indicated, plain sawn, book

matched, medium density fiberboard core; glue type as recommended for 6. Particleboard: ANSI A208.1; composed of wood chips, sawdust, or flakes of medium density, made with waterproof resin binders; of grade to suit application; sanded faces.

Hardboard: AHA A135.4; Pressed wood fiber with resin binder, Class 1 -Tempered, 1/4 inch thick, smooth one side (S1S). 8. Protect work from moisture damage.

9. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards for Premium Grade.

10. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by authority having jurisdiction. 1. Wood fabricated from old growth timber is not permitted.

12. Shop assemble work for delivery to site, permitting passage through building openings. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

14. Apply plastic laminate finish in full uninterrupted sheets consistent with nanufactured sizes. Fit corners and joints hairline; secure with conceal fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. 5. Install work in accordance with AWI/AWMAC/WI Architectural Woodwork

Standards requirements for grade indicated.

16. Set and secure materials and components in place, plumb and level. 17. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps. 18. Maximum Variation from True Position: 1/16 inch.

19. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

**SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK** . Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards for Premium Grade. 2. Wood Veneer Faced Cabinets: Premium grade.

3. Plastic Laminate Faced Cabinets: Custom grade. 4. Protect units from moisture damage.

5. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for 6. Wood fabricated from old growth timber is not permitted.

7. Adhesive: Type recommended by fabricator to suit application. 8. Grommets: Standard plastic grommets for cut-outs, in color as indicated. 9. Hardware: BHMA A156.9, types as indicated for quality grade specified.

10. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.

1. Drawer and Door Pulls: "U" shaped wire pull, steel with chrome finish, 4 inch centers, unless otherwise indicated on Drawings. 12. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel

with chrome finish, unless otherwise indicated on Drawings. 13. Catches: Magnetic. 14. Drawer Slides: Full extension, Static load capacity as required by drawer

size, side mounted, steel with polished finish. 15. Hinges: European style concealed self-closing type, steel with polished finish, unless otherwise indicated on Drawings.

16. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings. 17. Edging: Fit shelves, doors, and exposed edges with specified edging. Do

not use more than one piece for any single length. 18. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK (continued) 19. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure

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with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. 20. Provide cutouts for plumbing fixtures. Verify locations of cutouts from

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on-site dimensions. Prime paint cut edges. 21.Sand work smooth and set exposed nails and screws. 22. For opaque finishes, apply wood filler in exposed nail and screw

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indentations and sand smooth 23.On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied

24.Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

28. Adjust moving or operating parts to function smoothly and correctly.

25. Use concealed joint fasteners to align and secure adjoining cabinet units. 26. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose. 7. Secure cabinets to floor using appropriate angles and anchorages.

SECTION 07 84 00 - FIRESTOPPING

Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation.

. Firestopping: Any material meeting requirements. . Fire Ratings: See Drawings for required systems and ratings. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other

matter that could adversely affect bond of firestopping material. Remove incompatible materials that could adversely affect bond. Install materials in manner described in fire test report and in accordance

with manufacturer's instructions, completely closing openings. Do not cover installed firestopping until inspected by authority having jurisdiction.

Install labeling required by code.

Clean adjacent surfaces of firestopping materials. 10. Protect adjacent surfaces from damage by material installation.

SECTION 07 90 05 - JOINT SEALERS

General Purpose Interior Sealant for interior wall and ceiling control joints, joints between door and window frames and wall surfaces, and other interior joints for which no other type or sealant is indicated: Acrylic emulsion latex; ASTM C834, Type OP, Grade NF single component,

Bathtub/Tile Sealant for joints between plumbing fixtures and floor and wall surfaces and joints between kitchen and bath countertops and wall surfaces.: White silicone; ASTM C920, Uses I, M and A; single component, mildew resistant.

Acoustical Sealant bead between top stud runner and structure and between bottom stud track and floor: Permanently tacky non-hardening

Interior Floor Joint Sealant for use at expansion joints in floors: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A: single component

Sealants and Primers - General: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.

Sealant colors to be selected by Architect from manufacturer's standard Maintain temperature and humidity recommended by the sealant

manufacturer during and after installation. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

Perform installation in accordance with ASTM C1193. 0. Perform acoustical sealant application work in accordance with ASTM

1. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.

12. Install bond breaker where joint backing is not used. 13.Install sealant free of air pockets, foreign embedded matter, ridges, and

4. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges. 15. Tool joints concave.

Protect sealants until cured.

SECTION 08 14 16 - FLUSH WOOD DOORS

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Wood Veneer Faced Door Manufacturers: Graham Wood Doors, Eggers Industries or equal, unless otherwise indicated on Drawings. All Doors: Premium Grade Quality Level, in accordance with AWI/AWMAC/WI Architectural Woodwork Standards. 5-ply or 7-ply Wood

Veneer Faced Doors, unless otherwise indicated on Drawings. . Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction. Provide solid core doors at all locations.

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Fire Rated Doors: Tested to ratings indicated on drawings in accordance with jurisdiction having authority; UL or WH (ITS) labeled without any visible seals when door is open. Sound Retardant Doors: Minimum STC as indicated on drawings, calculated in accordance with ASTM E413, tested in accordance with

Non-Rated Solid Core and 20 Minute Rated Doors: Particleboard core.

Type PC, plies and faces as indicated on Drawings. Fire Rated Doors: Mineral core, Type FD, plies and faces as indicated on Drawings; with core blocking as required to provide adequate anchorage of hardware without through-bolting

Sound Retardant Doors: Equivalent to Type PC construction with core as required to achieve rating specified; plies and faces as indicated on

Wood Veneer Facing for Transparent Finish: As indicated on Drawings. 10. Hardboard Facing for Opaque Finish: AHA A135.4, Class 1 - Tempered, S2S (smooth two sides) hardboard, composition face, 1/8 inch thick. 1. Package, deliver and store doors in accordance with specified quality

12. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

14.Include coverage for delamination of veneer, warping beyond specified

installation tolerances, defective materials, and telegraphing core 15. Fabricate doors in accordance with door quality standard specified.

13. Provide manufacturer's warranty for the life of the installation.

16. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

7. Provide edge clearances in accordance with the quality standard

Install doors in accordance with manufacturer's instructions and specified quality standard. Install fire-rated doors in accordance with NFPA 80

Use machine tools to cut or drill for hardware. 20.Coordinate installation of doors with installation of frames and hardware.

SECTION 08 31 00 - ACCESS DOORS AND PANELS

Manufacturers: Acudor Products Inc, Milcor, or equal.

. Door and Frame Units: Steel factory fabricated, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies units are to be installed in.

Verify that rough openings are correctly sized and located.

Install units in accordance with manufacturer's instructions.

5. Install frames plumb and level in openings. Secure rigidly in place. 6. Position units to provide convenient access to the concealed work requiring access.

**SECTION 08 71 00 - DOOR HARDWARE** Coordinate the manufacture, fabrication, and installation of products onto

which door hardware will be installed Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

Convey Owner's keying requirements to manufacturers. . Provide all hardware specified or required to make doors fully functional,

compliant with applicable codes, and secure to the extent indicated. . Provide all items of a single type of the same model by the same

. Provide products that comply with the following

Applicable provisions of federal, state, and local codes. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.

Applicable provisions of NFPA 101, Life Safety Code. Fire-Rated Doors: NFPA 80.

All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated. Hardware for Smoke and Draft Control Doors: Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code. Products Requiring Electrical Connection: Listed and classified by UL

as suitable for the purpose specified and indicated. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.

2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

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REES MASILIONIS TURLEY ARCHITECTURE, LLC MISSOURI CERTIFICATE OF AUTHORITY # 00918



MATTHEW MASILIONIS - ARCHITECT MISSOURI # A-6005

firm appear on that sheet.

I have prepared the drawings and assume esponsibility for the sheets numbered with an "A" prefix for the project named below. Other drawings and specifications attached for the above-mentioned project have been by and are the esponsibility of the licensed engineer whose stamp and

. The Architect is not responsible for the design of the mechanical, electrical, plumbing, civil, landscaping structural, signage (not specified), fire sprinkler or fire suppression systems; and does not take responsibility for the compliance of these areas with the laws of the above governmental entities. The architect is not responsible for materials, components or equipment, as well as the method in which they are installed on the project by others. The Architect is not hired or responsible for certification, during construction or upon completion of construction. The Architect is not responsible for improper operation due to faulty installation or product failure during construction or after completion of construction when operation has begun by the landlord or

The licensed professional whose stamp appears on sheets other than those specifically noted above shall be esponsible for those items in paragraph three.

JORDAN'S **CHIROPRATIC** 

SUMMIT CREST PLAZA 3552 SW MARKET STREET

LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION	
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**SPECIFICATIONS** 

2020074.000 SHEET AUTHOR CHECKED BY S FEBRUARY 3, 2021

	36   35   34   33   32   31   SECTION 08 71 00 - DOOR HARDWARE (continued)
Z	8. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as instructed by the manufacturer.
_	9. Verify that electric power is available to power operated devices and of the correct characteristics.
Y	<ol> <li>Install hardware in accordance with manufacturer's instructions and applicable codes.</li> </ol>
_	<ul><li>11.Use templates provided by hardware item manufacturer.</li><li>12.Do not install surface mounted items until finishes applied to substrate are</li></ul>
	complete.  13.Install hardware on fire-rated doors and frames in accordance with code
X	and NFPA 80.  14. Mounting heights for hardware from finished floor to center line of
	hardware item: For steel doors and frames: Comply with DHI "Recommended Locations
	for Architectural Hardware for Steel Doors and Frames."  For wood doors: Comply with DHI "Recommended Locations for
<i>N</i>	Architectural Hardware for Wood Flush Doors."  15. Adjust work under provisions of Section 01 70 00.
	16. Adjust hardware for smooth operation.  17. Adjust gasketing for complete, continuous seal; replace if unable to make
V	complete seal.
	SECTION 08 80 00 - GLAZING  1. Single Vision Glazing: Fully tempered float glass, clear tint, ¼ inch
	thickness.  Applications: All interior glazing unless otherwise indicated.
J	2. Fire-Rated Safety Glazing: Glass-ceramic safety glazing, ¼ inch thickness, fire rating as indicated on Drawings.
	Applications: Provide this type of glazing in the following locations:  3. Single Safety Glazing: Non-fire-rated, fully tempered float glass, clear tint,
Т	1/4 inch thickness.  Applications: Provide this type of glazing in the following locations:
_	Glazed lights in doors, except fire doors.  Glazed sidelights to doors, except in fire-rated walls and partitions.
	Other locations required by applicable federal, state, and local codes and regulations.
S	Other locations indicated on the drawings.  4. Float Glass: All glazing is to be float glass unless otherwise indicated.
	Annealed Type: ASTM C1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select).
Ь	Heat-Strengthened and Fully Tempered Types: ASTM C1048.  5. Glass-Ceramic Safety Glazing: UL- or WH-listed as fire-protection-rated
R _	glazing and complying with 16 CFR 1201 test requirements for Category II without the use of a surface-applied film.
	<ol><li>Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM</li></ol>
Q	C920, Type S, Grade NS, Class 25, Uses M, A, and G; cured Shore A hardness of 15 to 25; color as selected.
	7. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness, ASTM C864 Option I. Length of 0.1 inch for each square foot of glazing or
	minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.
P 	8. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness, ASTM C864 Option I. Minimum 3 inch long x one half the height of the glazing
	stop x thickness to suit application, self adhesive on one face.  9. Glazing Tape: Preformed butyl compound with integral resilient tube
N	spacing device; 10 to 15 Shore A durometer hardness; coiled on release paper; black color.
_	10. Glazing Clips: Manufacturer's standard type.  11. Verify that openings for glazing are correctly sized and within tolerance.
	12. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and
M	ready to receive glazing.  13. Prime surfaces scheduled to receive sealant.  14. Install sealants in accordance with ASTM C1193 and FGMA Sealant
_	Manual.  15. Install sealant in accordance with ASTM CT193 and FGMA Sealant Manual.
	INSTALLATION - INTERIOR DRY METHOD (TAPE AND TAPE)  1. Cut glazing tape to length and set against permanent stops, projecting
_	<ul> <li>1. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sight line.</li> <li>2. Place setting blocks at 1/4 points with edge block no more than 6 inches</li> </ul>
	from corners.  3. Rest glazing on setting blocks and push against tape for full contact at
<	perimeter of pane or unit.  4. Place glazing tape on free perimeter of glazing in same manner described
	<ul><li>above.</li><li>Install removable stop without displacement of tape. Exert pressure on</li></ul>
	tape for full continuous contact.  6. Knife trim protruding tape.
J	INSTALLATION - INTERIOR WET METHOD (COMPOUND AND COMPOUND)
	1. Install glazing resting on setting blocks. Install applied stop and center pane by use of spacer shims at 24 inch centers, kept 1/4 inch below sight
Н	line. 2. Locate and secure glazing pane using glazers' clips.
-	<ol><li>Fill gaps between glazing and stops with glazing compound until flush with sight line. Tool surface to straight line.</li></ol>
	INSTALLATION - PLASTIC FILM  1. Install plastic film with adhesive, applied in accordance with film
G	manufacturer's instructions.  2. Place without air bubbles, creases or visible distortion.
	<ol><li>Fit tight to glass perimeter with razor cut edge. CLEANING AND PROTECTION</li></ol>
F	<ol> <li>Remove glazing materials from finish surfaces.</li> <li>Remove labels after Work is complete.</li> </ol>
F _	<ul><li>3. Clean glass and adjacent surfaces.</li><li>4. After installation, mark pane with an 'X' by using removable plastic tape or</li></ul>
	paste; do not mark heat absorbing or reflective glass units.
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mes."	8. Ceilin 9. Ceilin	ĺ
Locations for	requir	•
	10.Partiti devic	e
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lazing, ¼ inch		
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	11.Manu	
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valls and partitions. state, and local codes	C139 Ap	
	At	
otherwise indicated. Tent flat, Class 1 clear,		
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irements for Category II		
g; capable of water	13.Impad impad	
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neter hardness, ASTM	14.Backi	r
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n one face. egral resilient tube	GI	
ess; coiled on release	15.Backi board	
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pt 1/4 inch below sight	20.Joint manu	ıf
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	prime 22.Screv	٧
nce with film	Thick self-p	
ion.	23.Screv Thick	٧
	to loa 24.Metal	C
	manu 25.Suspe	ıf
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ss units.	26.Studs where	Э
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	32.Board	1

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SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

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crisions are	in accordance with ASTM E413, based on tests conducted in acc
es and of	with ASTM E90. 3. Fire Rated Assemblies: Comply with applicable requirements of
s and	or GA-600 for the particular assembly. Provide construction equ that listed for the particular assembly in the current UL Fire Resist Directory.
substrate are	4. Manufacturers - Metal Framing, Connectors, and Accessories: ClarkDietrich, Scafco, or equal.
with code	5. Non-Loadbearing Framing System Components: ASTM C645; g sheet steel, of size and properties necessary to comply with AST for the appearing indicated, with maximum deflection of well frames.
e of	for the spacing indicated, with maximum deflection of wall framin L/240 at 5 psf. 6. Studs: "C" shaped with flat or formed webs .
d Locations	7. Runners: U shaped, sized to match studs.  8. Ceiling Channels: C shaped.
for	Ceiling Hangers: Type and size as specified in ASTM C754 for s required.
	10. Partition Head to Structure Connections: Provide mechanical an devices that accommodate deflection using slotted holes, screws
ble to make	anti-friction bushings, preventing rotation of studs while maintain structural performance of partition. Maintain lateral load resistan vertical movement capacity required by applicable code, when e
4 inch	in accordance with AISI North American Specification for the Des Cold-Formed Steel Structural Members. Material: ASTM A653/A653M steel sheet, SS Grade 50/340,
d.	G60/Z180 hot dipped galvanized coating.  Provide components UL-listed for use in UL-listed fire-rated h
nch ocations:	partition joint systems indicated on drawings.  Deflection and Firestop Track: Provide mechanical anchorag
ss, clear tint,	as described above that accommodate deflection while matthe fire-rating of the wall assembly.
ocations:	11.Manufacturers - Gypsum-Based Board: National Gypsum Comp Corporation or equal.
artitions.	12. Gypsum Wallboard: Paper-faced gypsum panels as defined in A C1396/C1396M; sizes to minimize joints in place; ends square or
ocal codes	Application: Use for vertical surfaces and ceilings, unless oth indicated.
ndicated. ass 1 clear,	At Assemblies Indicated with Fire-Rating: Use type required indicated tested assembly; if no tested assembly is indicated.
048.	Type X board, UL or WH listed. Thickness: Vertical Surfaces: 5/8 inch.
ection-rated or Category II	Ceilings: 1/2 inch.  Multi-Layer Assemblies: Thicknesses as indicated on drav
of water	13.Impact-Rated Wallboard: Tested to Level 3 soft-body and hard-b impact in accordance with ASTM C1629.
ng; ASTM I Shore A	Application: High-traffic areas indicated.  Mold Resistance: Score of 10, when tested in accordance wi
ness, ASTM	D3273. Type: Fire-resistance rated Type X, UL or WH listed.
zing or ch x height	Thickness: 5/8 inch. Edges: Tapered.
ess, ASTM	14.Backing Board For Wet Areas:  Application: Surfaces behind tile in wet areas including tub a
he glazing	shower surrounds and shower ceilings. Glass-Mat-Faced Board: Coated glass mat water-resistant g
ent tube on release	backing panel as defined in ASTM C1178.  15.Backing Board For Non-Wet Areas: Water-resistant gypsum backing Board For Non-Wet Areas: Water-res
	board as defined in ASTM C1396/C1396M; sizes to minimum joi place; ends square cut.
tolerance. , free of	Application: Vertical surfaces behind thinset tile, except in we Type: Regular and Type X, in locations indicated.
e clear, and	Type X Thickness: 5/8 inch.  Regular Board Thickness: 5/8 inch.
Sealant	Edges: Tapered.  16. Ceiling Board: Special sag-resistant gypsum ceiling board as det
	ASTM C1396/C1396M; sizes to minimize joints in place; ends so Application: Ceilings, unless otherwise indicated.
PE) projecting	Thickness: 1/2 inch. Edges: Tapered.
n 6 inches	17. Acoustical Sound Dampening Wall and Ceiling Board: Two laye heavy paper faced, high density gypsum board separated by a
ontact at	viscoelastic polymer layer and capable of achieving STC rating of more in typical stud wall assemblies as calculated in accordance
er described	ASTM E413 and when tested in accordance with ASTM E90. Thickness: 1/2 inch.
essure on	Long Edges: Tapered.  Mold Resistance: Score of 10, when tested in accordance wi
ND	D3273.  18. Acoustic Insulation: ASTM C665; preformed glass fiber, friction
ND	<ul> <li>unfaced. Thickness: inch.</li> <li>19. Acoustic Sealant: Non-hardening, non-skinning, for use in conju with gypsum board.</li> </ul>
nd center below sight	<ul> <li>20. Joint Materials: ASTM C475 and as recommended by gypsum be manufacturer for project conditions.</li> </ul>
ntil flush	21.High Build Drywall Surfacer: Vinyl acrylic latex-based coating for application, designed to take the place of skim coating and sepa
na naon	primer in achieving Level 5 finish.  22.Screws for Attachment to Steel Members Less Than 0.03 inch In
m	Thickness, to Wood Members, and to Gypsum Board: ASTM C <sup>2</sup> self-piercing tapping type.
	23. Screws for Attachment to Steel Members From 0.033 to 0.112 in Thickness: ASTM C954; steel drill screws for application of gyps
	to loadbearing steel studs.  24.Metal Framing: Install in accordance with ASTM C754 and
	manufacturer's instructions.  25.Suspended Ceilings and Soffits: Space framing and furring men
lastic tape or	indicated.  26.Studs: Space studs as indicated. Extend partition framing to str
	where indicated and to ceiling in other locations.  27.Partitions Terminating at Ceiling: Attach ceiling runner securely
	track in accordance with manufacturer's instructions.  28.Partitions Terminating at Structure: Attach top runner to structure.
	maintain clearance between top of studs and structure, and conr to track using specified mechanical devices in accordance with
	manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
	29. Openings: Reinforce openings as required for weight of doors of operable panels, using not less than double studs at jambs.
	30. Acoustic Insulation: Place tightly within spaces, around cut oper behind and around electrical and mechanical items within partitic
	tight to items passing through partitions.  31. Acoustic Sealant: Install in accordance with manufacturer's instr
	Place one bead continuously on substrate before installation of p
	framing members. Place continuous bead at perimeter of each I gypsum board. In non-fire-rated construction, seal around all pe
	by conduit, pipe, ducts, and rough-in boxes.  32.Board Installation: Comply with ASTM C840, GA-216, and manu

instructions. Install to minimize butt end joints, especially in highly visible locations. Install gypsum board parallel to framing, with ends and edges

occurring over firm bearing.

ork; labeled, fire-rated l, and dimensions are	<ol> <li>Provide completed assemblies complying with ASTM C840 and GA-216.</li> <li>Interior Partitions Indicated as Sound-Rated: STC as indicated calculated in accordance with ASTM E413, based on tests conducted in accordance</li> </ol>	33.Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
ated devices and of	with ASTM E90.	34.Installation on Metal Framing: Use screws for attachment of all gypsum board.
instructions and	3. Fire Rated Assemblies: Comply with applicable requirements of ICC IBC or GA-600 for the particular assembly. Provide construction equivalent to that listed for the particular assembly in the current UL Fire Resistance	<ul><li>35.Curved Surfaces: Apply gypsum board to curved substrates in accordance with GA-226.</li><li>36.Moisture Protection: Treat cut edges and holes in moisture resistant</li></ul>
urer. pplied to substrate are	Directory.  4. Manufacturers - Metal Framing, Connectors, and Accessories: ClarkDietrich, Scafco, or equal.	gypsum board with sealant.  37.Control Joints: Place control joints not more than 30 feet apart on walls and ceilings over 50 feet long, unless otherwise indicated on Drawings:
ccordance with code	<ol> <li>Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754</li> </ol>	38.Corner Beads: Install at external corners, using longest practical lengths 39.Finish gypsum board in accordance with levels defined in ASTM C840.
center line of	for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.	40.Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
ommended Locations	<ul><li>6. Studs: "C" shaped with flat or formed webs .</li><li>7. Runners: U shaped, sized to match studs.</li></ul>	41.Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
nes." Locations for	<ul><li>8. Ceiling Channels: C shaped.</li><li>9. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing</li></ul>	42.Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
	required.  10.Partition Head to Structure Connections: Provide mechanical anchorage	43.Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
lace if unable to make	devices that accommodate deflection using slotted holes, screws and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition. Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated	<ul> <li>44.Level 0: Temporary partitions and surfaces indicated to be finished in later stage of project.</li> <li>45.Tape, fill, and sand exposed joints, edges, and corners to produce smoor surface ready to receive finishes. Feather coats of joint compound so the</li> </ul>
lear tint, ¼ inch	in accordance with AISI North American Specification for the Design of Cold-Formed Steel Structural Members.  Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with	camber is maximum 1/32 inch. 46.Where Level 5 finish is indicated, spray apply high build drywall surface over entire surface after joints have been properly treated; achieve a flat
e indicated.	G60/Z180 hot dipped galvanized coating.  Provide components UL-listed for use in UL-listed fire-rated head of	and tool mark-free finish.  47.Maximum Variation of Finished Gypsum Board Surface from True
azing, ¼ inch	partition joint systems indicated on drawings.  Deflection and Firestop Track: Provide mechanical anchorage devices	Flatness: 1/8 inch in 10 feet in any direction.
following locations: d float glass, clear tint,	as described above that accommodate deflection while maintaining the fire-rating of the wall assembly.	SECTION 09 51 00 - ACOUSTICAL CEILINGS
following locations:	11. Manufacturers - Gypsum-Based Board: National Gypsum Company, USG Corporation or equal.	Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit
alls and partitions. ate, and local codes	12. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.  Application: Use for vertical surfaces and ceilings, unless otherwise indicated.	<ul> <li>installation.</li> <li>2. Acoustical Units - General: ASTM E1264, Class A.</li> <li>3. Units for Installation in Fire-Rated Suspension System: Listed and classified for the fire-resistive assembly the suspension system is a part</li> </ul>
therwise indicated. ent flat, Class 1 clear,	At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.	of.  4. Suspension System Manufacturers: Same as for acoustical units indicated on Drawings.
ASTM C1048.	Thickness:  Vertical Surfaces: 5/8 inch.	5. Suspension Systems - General: ASTM C635; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and
ements for Category II	Ceilings: 1/2 inch.  Multi-Layer Assemblies: Thicknesses as indicated on drawings.	hold down clips as required.  6. Support Channels and Hangers: Galvanized steel; size and type to suit
; capable of water non-staining; ASTM	13.Impact-Rated Wallboard: Tested to Level 3 soft-body and hard-body impact in accordance with ASTM C1629.  Application: High-traffic areas indicated.	application, seismic requirements, and ceiling system flatness requirement specified.
I G; cured Shore A	Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.	<ul><li>7. Perimeter Moldings: Same material and finish as grid.</li><li>8. Install suspension system in accordance with ASTM C636/C636M, ASTM</li></ul>
neter hardness, ASTM oot of glazing or	Type: Fire-resistance rated Type X, UL or WH listed. Thickness: 5/8 inch.	E580/E580M, and manufacturer's instructions and as supplemented in this section.
us 1/16 inch x height	Edges: Tapered.  14. Backing Board For Wet Areas:	Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
eter hardness, ASTM height of the glazing	Application: Surfaces behind tile in wet areas including tub and shower surrounds and shower ceilings.	10.Install after major above-ceiling work is complete. Coordinate the locatio of hangers with other work.
one face. gral resilient tube	Glass-Mat-Faced Board: Coated glass mat water-resistant gypsum backing panel as defined in ASTM C1178.	11. Hang suspension system independent of walls, columns, ducts, pipes an conduit. Where carrying members are spliced, avoid visible displacement
ess; coiled on release	15.Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in	of face plane of adjacent members.  12. Where ducts or other equipment prevent the regular spacing of hangers,
and within tolerance.	place; ends square cut.  Application: Vertical surfaces behind thinset tile, except in wet areas.	reinforce the nearest affected hangers and related carrying channels to span the extra distance.
are clean, free of weeps are clear, and	Type: Regular and Type X, in locations indicated.  Type X Thickness: 5/8 inch.  Regular Board Thickness: 5/8 inch.	13. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
d FGMA Sealant	Edges: Tapered.  16. Ceiling Board: Special sag-resistant gypsum ceiling board as defined in	
structions.	ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.  Application: Ceilings, unless otherwise indicated.	
EAND TAPE) nt stops, projecting	Thickness: 1/2 inch. Edges: Tapered.	
o more than 6 inches	17. Acoustical Sound Dampening Wall and Ceiling Board: Two layers of heavy paper faced, high density gypsum board separated by a	
e for full contact at	viscoelastic polymer layer and capable of achieving STC rating of 50 or more in typical stud wall assemblies as calculated in accordance with	
ame manner described	ASTM E413 and when tested in accordance with ASTM E90.  Thickness: 1/2 inch.	
Exert pressure on	Long Edges: Tapered.  Mold Resistance: Score of 10, when tested in accordance with ASTM	
DOUND AND	D3273.  18. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type,	
POUND AND	unfaced. Thickness: inch.  19. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.	
ed stop and center ot 1/4 inch below sight	20. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.	
mpound until flush	21.High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint	
mpound until haon	primer in achieving Level 5 finish.  22.Screws for Attachment to Steel Members Less Than 0.03 inch In	
nce with film	Thickness, to Wood Members, and to Gypsum Board: ASTM C1002; self-piercing tapping type.	
on.	23. Screws for Attachment to Steel Members From 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws for application of gypsum board	
	to loadbearing steel studs.  24.Metal Framing: Install in accordance with ASTM C754 and	
	manufacturer's instructions. 25.Suspended Ceilings and Soffits: Space framing and furring members as	
novable plastic tape or s units.	indicated.  26.Studs: Space studs as indicated. Extend partition framing to structure	
	where indicated and to ceiling in other locations.  27.Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling	
	track in accordance with manufacturer's instructions.  28.Partitions Terminating at Structure: Attach top runner to structure,	
	maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with	
	manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.	
	29. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.	
	30. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and	
	tight to items passing through partitions.  31. Acoustic Sealant: Install in accordance with manufacturer's instructions.	
	Place one bead continuously on substrate before installation of perimeter framing members. Place continuous bead at perimeter of each layer of	
	gypsum board. In non-fire-rated construction, seal around all penetrations by conduit, pipe, ducts, and rough-in boxes.	
	32.Board Installation: Comply with ASTM C840, GA-216, and manufacturer's	

ads: Install at external corners, using longest practical lengum board in accordance with levels defined in ASTM C84
Valls and ceilings to receive paint finish or wall coverings, erwise indicated. Valls and ceilings to receive semi-gloss or gloss paint finish
s specifically indicated.  n utility areas, behind cabinetry, and on backing board to
e finish. Fire rated wall areas above finished ceilings, whether or not s in the completed construction.
emporary partitions and surfaces indicated to be finished in of project. and sand exposed joints, edges, and corners to produce sr
ady to receive finishes. Feather coats of joint compound somaximum 1/32 inch.
vel 5 finish is indicated, spray apply high build drywall surfa e surface after joints have been properly treated; achieve a park-free finish.
Variation of Finished Gypsum Board Surface from True 1/8 inch in 10 feet in any direction.
<b>09 51 00 - ACOUSTICAL CEILINGS</b> niform temperature of minimum 60 degrees F, and maximum f 40 percent prior to, during, and after acoustical unit in.
Units - General: ASTM E1264, Class A.  Installation in Fire-Rated Suspension System: Listed and for the fire-resistive assembly the suspension system is a p
on System Manufacturers: Same as for acoustical units on Drawings.
on Systems - General: ASTM C635; die cut and interlockin uts, with stabilizer bars, clips, splices, perimeter moldings, a clips as required.
hannels and Hangers: Galvanized steel; size and type to s n, seismic requirements, and ceiling system flatness nt specified.
Moldings: Same material and finish as grid. pension system in accordance with ASTM C636/C636M, A DM, and manufacturer's instructions and as supplemented n.
cure system, including integral mechanical and electrical uts, for maximum deflection of 1:360.
r major above-ceiling work is complete. Coordinate the loc s with other work. pension system independent of walls, columns, ducts, pipe:
Where carrying members are spliced, avoid visible displace of adjacent members.
cts or other equipment prevent the regular spacing of hang he nearest affected hangers and related carrying channels extra distance.
oport components on main runners or cross runners if weig al dead load to exceed deflection capability.

16 <sub>I</sub> 15 <sub>I</sub> SECTION 09 51 00 - ACOUSTICAL CEILINGS (continued) 14. Support fixture loads using supplementary hangers located within 6

15. Do not eccentrically load system or induce rotation of runners. 16. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.

curved substrates in 17. Use longest practical lengths. holes in moisture resistant

ore than 30 feet apart on walls erwise indicated on Drawings: detrimental to appearance and function. 21. Fit border trim neatly against abutting surfaces.

22. Install units after above-ceiling work is complete.

24. Cutting Acoustical Units: Make field cut edges of same profile as factory

acoustical partitions as indicated. 26. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

Loads: 2 degrees. so tha **SECTION 09 65 00 - RESILIENT FLOORING** 

23 <sub>I</sub>

22 <sub>|</sub>

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES (continued)

21

20 <sub>I</sub>

inches of each corner, or support components independently. s for attachment of all gypsum

> 18. Overlap and rivet corners. 19. Install acoustical units in accordance with manufacturer's instructions. 20. Fit acoustical units in place, free from damaged edges or other defects

23. Install acoustical units level, in uniform plane, and free from twist, warp,

25. Lay acoustical insulation for a distance of 48 inches either side of

27. Maximum Variation from Plumb of Grid Members Caused by Eccentric

recommended by flooring manufacturer.

. Protect roll materials from damage by storing on end. 2. Maintain temperature in storage area between 55 degrees F and 90 degrees F. Store materials for not less than 48 hours prior to installation in area of

installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F. 4. Vinyl Welding Rod: Solid vinyl bead produced by manufacturer of vinyl

flooring for heat welding seams, in color matching field color. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer 6. Primers, Adhesives, and Seaming Materials: Waterproof; types

Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate. 8. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive

Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH. Test in accordance with ASTM F710.

10. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer. 1. Prepare floor substrates as recommended by flooring and adhesive

manufacturers. 2. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard

13. Starting installation constitutes acceptance of sub-floor conditions. 14. Install in accordance with manufacturer's instructions.

15. Spread only enough adhesive to permit installation of materials before initial set. 16. Fit joints tightly.

17. Set flooring in place, press with heavy roller to attain full adhesion. 18. Where type of floor finish, pattern or color are different on opposite sides of door, terminate flooring under centerline of door. 19. Install edge strips at unprotected or exposed edges, where flooring

terminates, and where indicated. 20. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

21.Remove excess adhesive from floor, base, and wall surfaces without damage 22. Clean in accordance with manufacturer's instructions. 23. Prohibit traffic on resilient flooring for 48 hours after installation. TILE FLOORING

l.Mix tile from container to ensure shade variations are consistent when tile | 26.Paint for Gypsum Board/Plaster: One coat of latex primer. Two coats of is placed, unless manufacturer's instructions say otherwise. 2. Lay flooring with joints and seams parallel to building lines to produce

symmetrical tile pattern, unless otherwise indicated on drawings. **RESILIENT BASE** Fit joints tightly and make vertical. Maintain minimum dimension of 18

inches between joints.

2. Install base on solid backing. Bond tightly to wall and floor surfaces. 3. Scribe and fit to door frames and other interruptions.

**SECTION 09 90 00 - PAINTING AND COATING** 

11 <sub>I</sub>

fully factory-finished and unless otherwise indicated. Mechanical and Electrical: In finished areas, paint all insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated on Drawings.

10 <sub>I</sub>

Scope: Finish all interior and exterior surfaces exposed to view, unless

08

Do Not Paint or Finish the Following Items: Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished. Items indicated to receive other finishes. Items indicated to remain unfinished. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment. Floors, unless specifically so indicated. Ceramic and other tiles. Glass. Acoustical materials, unless specifically so indicated. Concealed pipes, ducts, and conduits. Deliver products to site in sealed and labeled containers; inspect to verify

acceptability. Container Label: Include manufacturer's name, type of paint, brand

name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing. Paint Materials: Store at minimum ambient temperature of 45 degrees F

and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions. Do not apply materials when surface and ambient temperatures are

outside the temperature ranges required by the paint product

Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

Provide lighting level of 80 ft candles measured mid-height at substrate 10. Provide all paint and coating products used in any individual system from

the same manufacturer; no exceptions. 1. Provide all paint and coating products from the same manufacturer to the greatest extent possible

12. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.

3. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

4. Supply each coating material in quantity required to complete entire project's work from a single production run.

5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions

6. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer. 7. Volatile Organic Compound (VOC) Content:

8. Provide coatings that comply with the most stringent requirements specified in the following: 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings. Architectural coatings VOC limits of State in which the project is located.

9. Colors: As indicated on Drawings. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under

20.Paint for Wood, Opaque: One coat of latex primer sealer. Two coats of latex enamel.

21.Paint for Wood, Transparent, Varnish, No Stain: One coat sealer. 22. Paint for Wood, Transparent, Varnish, Stain: Filler coat (for open grained wood only). One coat of stain. One coat sealer. One coat of varnish.

23. Paint for Concrete/Masonry, Opaque: One coat of block filler. Two coats of alkyd enamel. 24. Paint for Ferrous Metals, Unprimed: One coat of latex primer. Two coats

of latex enamel. 25. Paint for Ferrous Metals. Primed: Touch-up with latex primer. Two coats of latex enamel

27. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to

achieve the finishes specified whether specifically indicated or not; commercial quality.

28. Patching Material: Latex filler.

29. Fastener Head Cover Material: Latex filler. 30. Clean surfaces thoroughly and correct defects prior to coating application. 31.Prepare surfaces using the methods recommended by the manufacturer

for achieving the best result for the substrate under the project conditions. 32. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

33. Seal surfaces that might cause bleed through or staining of topcoat. 34. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

05 <sub>|</sub> 04 <sub>|</sub> 03 SECTION 09 90 00 - PAINTING AND COATING (continued)

35. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow

36.Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

37. Galvanized Surfaces to be Painted: Remove surface contamination and

oils and wash with solvent. Apply coat of etching primer. 38. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).

39. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

10.Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item. 41.Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit

prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation. 42.Interior Wood Surfaces to Receive Transparent Finish: Wipe off dust and

grit prior to sealing, seal knots, pitch streaks, and sappy sections with

sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25

43. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer 44.Remove unfinished louvers, grilles, covers, and access panels on

mechanical and electrical components and paint separately. 45. Apply products in accordance with manufacturer's instructions. 46.Do not apply finishes to surfaces that are not dry. Allow applied coats to

dry before next coat is applied. 47. Apply each coat to uniform appearance.

48. Sand wood and metal surfaces lightly between coats to achieve required

49. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

50. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface. 51.Reinstall electrical cover plates, hardware, light fixture trim, escutcheons,

SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES Fire Extinguishers, Fire Extinguisher Cabinets and Accessories: Ansul,

and fittings removed prior to finishing.

Inc, Pyro-Chem, or equal. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent. Provide

extinguishers labeled by UL for the purpose specified and indicated. Extinguisher Brackets: Formed steel, galvanized and enamel finished.

Install in accordance with manufacturer's instructions. Install cabinets plumb and level in wall openings, 54 inches from finished

floor to inside bottom of cabinet. Secure rigidly in place. Place extinguishers and accessories in cabinets and on wall brackets.

2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

816 502 1500 WWW.PAD.STUDIO

REES MASILIONIS TURLEY ARCHITECTURE, LLC MISSOURI CERTIFICATE OF AUTHORITY # 00918



MATTHEW MASILIONIS - ARCHITECT MISSOURI # A-6005

responsibility for the sheets numbered with an "A" prefix for the project named below. Other drawings and specifications attached for the above-mentioned project have been by and are the esponsibility of the licensed engineer whose stamp and firm appear on that sheet. The Architect is not responsible for the design of the mechanical, electrical, plumbing, civil, landscaping, structural, signage (not specified), fire sprinkler or fire suppression systems; and does not take responsibility for the compliance of these areas with the laws of the above governmental entities. The architect is not responsible for materials, components or equipment, as well as the

I have prepared the drawings and assume

improper operation due to faulty installation or product failure during construction or after completion of construction when operation has begun by the landlord or The licensed professional whose stamp appears on

method in which they are installed on the project by

others. The Architect is not hired or responsible for

certification, during construction or upon completion of construction. The Architect is not responsible for

sheets other than those specifically noted above shall be responsible for those items in paragraph three.

**JORDAN'S CHIROPRATIC** 

MARK DATE DESCRIPTION

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

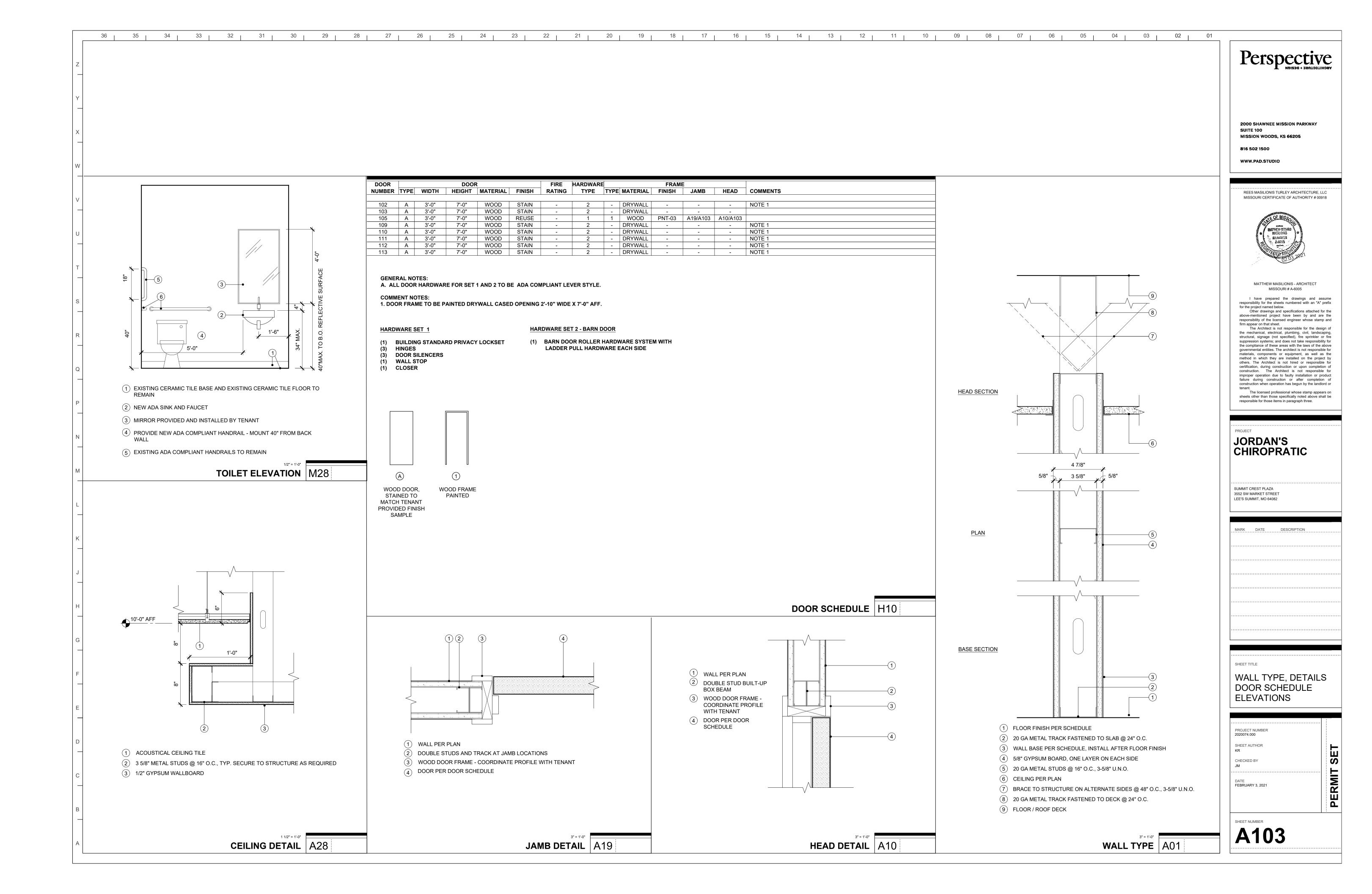
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**SPECIFICATIONS** 

SHEET AUTHOR CHECKED BY S FEBRUARY 3, 2021







1. Balance and control dampers shall be rated in accordance with AMCA 500D. They shall be opposed blade

Greenheck MBDR-50, Galv. Steel formed blade, manual locking quadrant actuator, 1" WG, 2000 fpm.

1. Ductwork shall be supported in accordance with all SMACNA standards including support methods, sizes

2. All hanger and support parts shall be galvanized steel for non-corrosive environments or stainless steel for

3. Provide sheetmetal straps, adjustable hangers, clamps, channels, rods, flexible connectors,

4. Cable systems may be used at contractor option. They shall be a complete assembly including cables,

1. Ductwork shall be routed as shown on drawings, parallel to building lines unless otherwise shown,

A. All supply, return and exhaust grilles, registers and diffusers shall be as scheduled on the drawings.

1. All air distribution devices shall be selected for throw and low noise (25 NC or less) performance

2. A balancing damper shall be provided for each and every diffuser, register and grille where airflow control is required. Unless otherwise indicated, provide integral volume damper where a duct mounted damper

3. Ceiling supply diffuser connection shall be made with hard elbow or flex duct with Thermaflex flex flow

A. Replace filters in air intake to each units A/C system with size and number of filters standard with air unit manufacturer. Provide 1" and/or 2" thick to suit equipment requirements, hi-velocity, throw-a-way MERV 8

A. All temperature controls unless otherwise noted shall be the responsibility of the Mechanical Contractor.

B. All occupant adjustable devices shall be mounted in accordance with ADA and ADAAG requirements.

filters, Farr 30/30 or acceptable equal by American Air Filter, Airguard, Air Filters, Inc, Purolator. Filters shall

Commercial quality - E.H. Price or acceptable equal by Titus, Carnes, Krueger or Nailor.

be new and clean at time of Owner's acceptance. Supply extra set of filters for each unit.

coordinated with building structure and other trades. Adjust ductwork routing and elevations with necessary

adjustable locking fasteners or clips and all upper and lower attachments by Gripple or acceptable equal.

supplementary steel, etc as required for proper support of all ductwork. Trapeze may be used for support of single or multiple ducts. Provide accompanying attachments including bolts and nuts, sheetmetal screws

except air mixing dampers shall be parallel blade.

2. Damper Schedule:

A. Hangers and Supports.

a. Manual Damper Round:

corrosive or damp environments.

or rivets compatible with duct materials.

5.0 GRILLES, REGISTERS, INLETS AND OUTLETS:

characteristics unless otherwise indicated

7.0 CONTROLS AND LOW VOLTAGE SYSTEMS:

would not be accessible

elbow support.

6.0 FILTERS:

offsets to accommodate beams and other obstructions.

4.0 DUCT SUPPORTS AND ROUTING

a. Manual dampers shall have standoff and locking quadrant.

regulations. Provide safety lights, guards and signs required.

10.0 CONNECTION AND ALTERATION TO EXISTING SYSTEMS:

and for what length of time a shut-down can be tolerated.

intended. The burden of proof of equality is entirely upon the proposer.

Contractor in adequate time to prevent delay and changes during construction.

C. Refer to Architectural Documents for additional shop drawing submission procedures.

C. Refer to Division 1 requirements for additional substitution procedures

responsibility for deviations from the Contract Documents.

A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a

B. The Contactor shall clean and maintain their specific portions of the work on a daily basis or as specified in the

A. Connection to the existing building systems must be accomplished under this contract. System "downtime" due

B. Provide all temporary piping and wiring systems required during construction in order to keep all existing

C. Demolition, cutting and patching to restore surfaces to original condition as necessitated for access to work

A. Materials, products and equipment described in the Bidding Documents established a standard of quality to be

B. Contractor's bids shall be based on the material identified or specified in the contract documents. Any proposals for substitution shall be made in writing to the Architect/Engineer with all supporting documentation,

D. Wherever substitutions alter the design or space requirements, the Contractor shall be responsible for and include all associated cost items of the revised design and or construction work required by his or other trades

A. The checking of shop drawings is a gratuitous assistance and in no way relieves the Contractor of

B. Shop drawings and catalog data on all major items of equipment and apparatus, and such other illustrative

A. On completion of the project, the Contractor shall provide manuals electronically (PDF format unless otherwise

A. On completion of the project, the Contractor shall provide record drawings electronically in PDF format (unless otherwise instructed) with all field changes neatly noted. The original routing and layout shall be clearly marked

instructed) containing operating, service and lubrication instructions, and parts lists for all major equipment and

materials as may be considered necessary by the Owner's Representative shall be submitted by the

allowing adequate time for appropriate action. The products of other manufacturers may be accepted, if in the

opinion of the Architect/Engineer, the substitute material is of quality as good or better than the material specified, and will serve with equal efficiency and dependability the purpose for which the items specified were

to connection shall be kept to an absolute minimum. The Owner's Representative shall judge if at what time,

C. The Contractor shall remove from the premises all waste material present as a result of his work.

performed by the Contractor or his subcontractors shall be the responsibility of the Contractor.

9.0 HOUSEKEEPING:

neat and orderly manner

systems functioning

met by any proposed substitution.

affected by the proposed substitution.

12.0 SHOP DRAWINGS AND PRODUCT DATA:

13.0 OPERATING AND MAINTENANCE BROCHURE:

manufacturer's guaranties or warranties.

14.0 RECORD DRAWINGS:

11.0 SUBSTITUTIONS:

1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 LANKFORD I FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC. COPYRIGHT **2** 2020 *Project No.* 21.6662.00 COA No. 2006001168 JORDAN'S

2000 SHAWNEE MISSION PARKWAY

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MISSION WOODS, KS 66205

SUITE 100

816 502 1500

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CHIROPRATIC

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION 02.03.2021 PERMIT

**SPECIFICATIONS** 

SHEET AUTHOR CHECKED BY JANUARY 19, 2021

**MEP101** 

220 100 PLUMBING

32 <sub>I</sub>

- A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation and to provide complete working systems of the Plumbing Systems, including hot and cold water, waste and vent, storm drainage, fixtures, equipment and other items described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect/Engineer.
- B. Extend piping systems as indicated on contract documents or to point of connection as follows:
- Points of connection within the existing building.
- A. Provide service valves for each item of equipment, at branch piping and elsewhere as indicated or required.
- B. Provide a union or flanged connection between each item of equipment and its service valve. Copper to
- ferrous pipe connections shall have isolation coupling, flange or union.
- a. 2-1/2" and Smaller -Type "L" hard temper, wrought or cast copper fittings, Lead free 95/5 or Eagle Hard Silvabrite or "CB" solder joints.
- 2. Securely anchor and support piping, valves and fittings, with adequate provisions for expansion and
- 3. Hot and cold supply lines to have manufactured pre-charged piston type water hammer arresters sized and installed in accordance with PDI-WH 201. Install at each solenoid actuated quick closing valve location including but not limited to dishwashers, clothes washers, ice makers, electronic faucets and similar items.
- 1. Pipe Standard weight cast iron hubless with no-hub shielded mechanical joints; solid wall schedule 40
- PVC, ABS with solvent cement joints; vents may be galvanized malleable iron.
- 2. Plastic piping shall not be allowed in return air plenums.
- 3. Hub drains, where shown, shall be of material compatible with piping system, 2" minimum connection size, top flared out to accept indirect wastes required at each location. Hub drains shall be fitted with trap
- 4. All gravity drainage shall be graded per code but not less than 1/8" per foot unless noted otherwise. 3" and 4" piping shall be sloped at 1/4" per foot where possible and where required by local codes.
- 3.0 CLEANOUTS, TEST TEES, TRAPS AND TRAP SEALS:
- A. Provide cleanout at the base of each stack or riser, at ends of runs greater than 10', each 135 degree aggregate change of direction in horizontal piping, where indicated on the drawings or as required by code. Plugs, extra heavy cast brass, screwed. Scoriated tops in unfinished areas, carpet markets in carpet floors, tile top in tile floors, stainless steel cover in finished walls. Cleanouts same size as pipe up to 4" diameter, 4" cleanouts for larger pipe unless otherwise noted.
- B. All traps shall be deep seal type with liquid seal not less than specified by code.
- C. Where trap primers are not specified provide all floor and hub drains with trap seal with EPDM diaphragm, Provent Proset Series SG22 or TG22, Rectorseal SS series or acceptable equal.
- 4.0 SLEEVES AND SEALS, FLASHINGS, ROOF PIPE SUPPORTS AND UV PROTECTION:
- A. Provide sleeves where piping penetrations are required thru partitions, concrete floors, concrete slabs on or below grade or foundation walls. Where penetrations are through fire rated assemblies, sleeves shall be in accordance with UL listing requirements. Sleeves shall be galvanized steel pipe, sheet steel or cast iron. Sleeves are not required for core drilled penetrations of existing concrete slabs above grade. Penetrations of below grade structures and slabs on grade shall be water proofed with mechanical link seal system, Thunder
- 5.0 CROSS- CONNECTIONS AND INTERCONNECTIONS:
- A. No plumbing device or piping shall be installed which will provide cross-connection or interconnection between a distributing supply or waste so as to make possible the backflow or back-siphonage of polluted water into the potable water supply system. Where the possibility of back-siphonage exists, water supply to the fixture shall be introduced through a suitable backflow preventer device suitable for the hazard protected. Installed backflow preventers must be approved through the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research.
- A. Water heaters, pumps, expansion tanks and other equipment shall be as scheduled or by acceptable equal by
- Water Heaters and Accessories:
- Water Heaters: A.O. Smith. State. Rheem.
- Expansion Tanks: Watts, Amtrol, Armstrong, Taco, Wessels.
- 1. Pipe water heater drains and/or pan drains to indirect waste per code and as noted or detailed. Water heater P&T relief valves shall be piped independently, indirectly wasted 6" above receptor per code and as
- 2. Install vacuum relief valve on each bottom fed storage water heater, installed above the top of the water
- heater on cold water inlet piping.
- 3. Mount water heaters suspended from structure on steel rods as indicated on drawings. 4. Water piping connections to water heaters shall be metallic, no plastic piping is permitted within 18" of a water heater connection. [Provide 18" minimum flexible corrugated copper or braided stainless steel
- C. Pumps used for potable water system applications shall be of lead free all bronze or stainless steel
- D. Provide equipment accessories including but not limited to operating controls, limit switches, oil sensors, high level controls, timers, aquastats, energy management system interface, etc. as indicated on drawings and as
- A. Pipe insulation shall conform to the International Energy Conservation Code.
- B. Insulate all cold water, hot water piping, Owens Corning or acceptable equal.
- Cold water piping insulation: 1" fiber glass sectional pipe covering with universal vapor barrier jacket. 2. Hot Water piping insulation: 1" fiber glass sectional pipe covering with universal all service jacket.
- C. At Contractor's option, Armacell AP Armaflex unicellular insulation or acceptable equal with 25/50 flame and smoke rating with equal thermal performance may be substituted for fiberglass products.
- D. Seal all joints on cold water insulation to maintain vapor barrier.
- E. Insulation shall run continuously thru hangers and supports without interruption.
- F. Refer to plumbing fixture schedule for insulation of fixture drains and water piping for compliance with ADA requirements for People with Disabilities.

#### 8.0 PIPE SUPPORTS AND ROUTING:

#### A. Hangers and Supports.

27 <sub>l</sub> 26 <sub>l</sub>

29 <sub>I</sub>

28 <sub>I</sub>

- 1. Piping shall be supported in accordance with industry standards including support methods, sizes and spacing. All supports and installation shall conform to MSS SP58 and 69 and Fed Spec WW-H-171E and
- 2. Pipe Slopes: Install hangers and supports to provide indicated or required pipe slopes to provide for drainage and venting

23 <sub>I</sub>

22 <sub>|</sub>

21 <sub>I</sub>

20 <sub>I</sub>

19 <sub>I</sub>

3. Deflection: Maximum pipe deflections and stresses as allowed by ANSI B31 are not exceeded

24 <sub>l</sub>

25 <sub>l</sub>

- 4. Each piping system shall be independently supported with no piping bearing on another and installed such that no weight of piping is borne by the equipment.
- 5. Space hangers and supports within maximum piping span length indicated in MSS SP-58. Install building attachments at required locations for proper piping support.
- 6. Provide adjustable hangers, inserts, brackets, rolls, clamps, channels, rods, guides, anchors, flexible connectors, supplementary steel, etc., as required for proper support of all pipe lines. Trapeze may be used for support of multiple pipes. Provide accompanying attachments including bolts and nuts, sheetmetal screws or rivets suitable for application
- 7. Upper attachments shall be manufactured items specific to the applicable structure. Include concrete inserts, wedge type drilled in inserts, steel beam and joist clamps, plates, rods, clips, straps and brackets
- 8. Hangers shall be designed to allow for expansion and contraction of pipe lines and shall be of adequate size to permit covering when required. Provide protective saddles and blocking where supporting insulated
- 9. All hanger and support parts shall be galvanized steel for non-corrosive environments or stainless steel for corrosive or damp environments.

- 1. Piping shall be routed as shown on drawings, parallel to building lines unless otherwise shown, coordinated with building structure and other trades. Adjust pipe routing and drop locations with necessary pipe offsets or changes in elevation to accommodate beams and other obstructions.
- 9.0 EQUIPMENT AND PIPE LABELS:
- A. Equipment labels shall be provided for all plumbing equipment and shall be self adhesive engraved plastic, blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number.
- B. Pipe labels for domestic water, waste, vent and gas piping shall be preprinted, color-coded, with 1-1/2" lettering indicating service, and showing flow direction, locate pipe labels where piping is exposed or above accessible ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and
- plenums: and locations as follows:
- Near each valve and control device. 2. Near each branch connection, excluding short takeoffs for fixtures and terminal units. Where flow pattern is
- not obvious, mark each pipe at branch.
- 3. Near major equipment items and other points of origination and termination.
- 4. On piping above removable acoustical ceilings, omit intermediately spaced labels.
- C. Warning labels shall be self-adhesive engraved plastic or preprinted plastic as required by application with white lettering on red background provided at locations as required by code or where hazards to personnel

#### 10.0 PROTECTION OF WORK

- 1. Protect and cover piping and fixture waste and water openings to prevent entry of dirt and debris.
- Cover and protect fixtures and plumbing equipment to prevent damage.

#### 11.0 TEST, ADJUSTMENTS AND CLEANING:

- A. Soil, waste and vent piping testing:
- water column, and allow to remain for a period of two hours. 2. Where applicable, isolate new portions of the system(s) piping with test tee and Oatey Clean Seal inflatable plug prior to testing.

1. Fill with water to the top of the highest point of the system extending through roof, but not less than 10 feet

- 1. Water piping shall be purged and tested with compressed air or water at 50 PSIG above the operating pressure but not to exceed the pressure rating of piping system materials for a period of 2 hours with no measurable pressure drop.
- C. After successful testing, sterilize water system with an approved solution in accordance with local health
- D. Contractor to submit all test data and other documentation for record.
- 12.0 FIXTURE BRANCH PIPING:
- A. Fixture branch and connection sizes shall be as shown in the plumbing fixture schedule on the drawings and not less than required by code.
- B. Minimum waste or vent size below slab on grade shall be 2".
- 13.0 PLUMBING FIXTURES:
- A. Refer to plumbing fixture schedule for plumbing fixtures and accessories. Include all fittings and accessories as required for a complete working system.

### 14.0 FIXTURE AND ACCESSORY MANUFACTURERS:

A. Fixtures, equipment and accessories are specified by manufacturer's numbers as to the type and quality

**END OF SECTION** 

Chicago Faucets, Delta, Elkay, Kohler, Sloan, T & S Brass, Watts, Zurn

B. Specified manufacturers and approved equal manufacturers are as follows:

## FIXTURE, ITEM OR EQUIPMENT APPROVED EQUAL MANUFACTURERS

Elkay, Just, Kohler, Advance Tabco Stainless Steel Sinks

Supply Faucets & Trim

260 100 ELECTRICAL

15 <sub>I</sub>

#### 1.0 SCOPE:

18 <sub>I</sub>

17 <sub>I</sub>

A. The work included under this contract consists of the furnishing of all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the electrical systems and other items herein listed, all as directed by the Architect or Engineer, which work is comprised of, but not limited to the following

14 <sub>I</sub>

13 <sub>I</sub>

12 <sub>I</sub>

11 <sub>I</sub>

10 <sub>I</sub>

09 <sub>I</sub>

08 <sub>I</sub>

#### 1. Electrical system for light and power:

- a. Systems of conduit, conductors, and boxes
- b. Receptacles and wiring devices.
- c. Lighting fixtures and lamps. d. Power service to the various motors.
- e. Complete lighting and power systems. f. All systems, wiring and conduit as required.
- 2. Control wiring and electrical installation and connections for items in other contracts as may be listed in the
- 3. Empty conduit and boxes for future installation of telephone wiring and miscellaneous systems.
- Rough-in and final connection to equipment furnished by others. B. Raceway wiring systems shall be concealed in all finished parts of the building, where possible. Where the raceways are exposed, they shall be run parallel with the building walls in a neat and workmanlike manner. Should it appear necessary to expose any conduit or wiring in finished spaces, it shall be brought to the Architect's attention immediately and this Contractor shall rearrange associated work as directed to facilitate an approved installation. Contractor to coordinate with mechanical trades to avoid ductwork and piping.

- A. All electrical conductors are to be installed in metal raceways, unless specifically specified or noted otherwise. Galvanized steel or intermediate steel conduit as permitted by code. No conduit smaller than 3/4" to be used. Use compression type fittings. Provide flexible conduit connection for final connection to each motor not to exceed 3' in length and recessed lighting fixtures not to exceed 6' in length. Provide pull wires in all empty conduit systems. Identify terminus of each pull wire. All exposed raceways shall be installed with runs parallel and/or perpendicular with building walls. Fasten all rigid/non-flexible conduit every 8' and 2' from each box. Conduit shall be EMT where not subject to mechanical damage as permitted by National Electric Code (N.E.C.). EMT connectors and couplings 4" and smaller shall be compression type. Type MC
- Cable with ground wire is allowed in concealed spaces only, behind walls and above ceiling. B. Conduit bushings shall be provided and installed inside all disconnects, pull boxes, panelboards, switchboard or similar type equipment and where permitted by National Electric Code (N.E.C.).

- 3.0 WIRES AND CABLES: A. Electrical conductors, soft annealed copper with conductivity 98% of that of pure, stranded copper, 90 degree - 600V insulation and equal to General Cable Company. Wire and cable for all feeders, subfeeders, motor circuits and high ambient location type shall be THHN. All other branch circuit wiring shall be type XHHN or
- THHN. Minimum wire size shall be #12 gauge AWG. Control wiring may be #14 gauge. B. For conductors #4 or small use the following color-code:
- 208Y/120V, 3-phase: black, red, blue, white.
- Green shall be used for ground wire conductor.
- C. Conductor Material Applications:
- a. Branch Circuits: Copper. Solid for No. 12 AWG and smaller; stranded for No. 10 AWG and larger. D. Conductor insulation and multi-conductor cable application and wiring methods
  - a. Exposed Branch Circuits, Including in Crawlspaces: Type THHN, single conductors in raceway. f. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Metal-clad cable, Type MC.

- 4.0 GROUNDING: A. Ground all electrical apparatus in accordance with N.E.C. and as specified herein. Provide a separate grounding conductor for all lighting, receptacle and equipment circuits. All cabinets, switchboards, equipment cases, motor frames, interior metal cold water piping systems, and system neutral conductors shall be effectively grounded. Use solderless pressure type connectors, no perforated strap connectors will be allowed. Ensure continuous bond where flexible conduit is used. Provide bonding jumper inside all flexible
- conduit. Grounding per N.E.C. 250, and any local requirements. B. All patient care areas shall meet grounding requirements of NEC Article 517.13. Where type MC cable is used, the metal sheathing shall be listed as an acceptable grounding path.

A. Make splices at junction boxes, pull boxes, or outlet boxes only.

### 6.0 CABINETS, JUNCTION AND PULL BOXES:

A. Flush or surface mounted as indicated on drawings. Provide where shown on drawings and where required by code. Construct of cold gauge steel for flush surface mounting.

A. General Electric, Appleton, Steel City or Raco hot dipped galvanized steel boxes, or equal. Install at terminal of each conduit run, each outlet, or device. Provide size, type and design to suit structural conditions. Adequate to accommodate size and number of raceways, conductors, device or fixture served. Provide plaster rings or covers on boxes where required on exposed work, use approved cast ferrous alloy outlet, junction boxes and fittings. Fixture or device cover shall completely conceal the size outlet box used. Install 3/8" fixture stud for lighting fixtures where required. Locate ceiling outlets to work with architectural features as directed. Switches installed 48" above floor on strike side of door as finally hung. Receptacles and telephone outlets, 18" above finished floor unless otherwise noted. Verify all outlet locations on job with Architect.

## 8.0 DISCONNECT SWITCHES:

A. Heavy duty NEMA type 'HD' - same manufacturer as panelboards. Plastic nameplate properly engraved with name of equipment served, secured to switch cover. Fuses shall be Bussmann of sizes and types scheduled

### 9.0 MOTOR AND CONTROL WIRING AND CONNECTIONS:

A. This Contractor to provide all necessary conduit, boxes and supports to equipment furnished by Owner and as indicated on drawings. Provide a disconnect switch and starter if required.

- 10.0 LABELING: A. Contractor shall label each and every j-box above ceiling with a permanent marker with panel and circuit
- B. Outlets, adhesive film label, machine printed clear background with black letters, by thermal transfer or equivalent process. Minimum letter height shall be 1/4 inch. Face plate shall be labeled with panel and circuit
- C. Interior equipment self-adhesive, engraved, laminated acrylic or melamine label: adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).

### 11.0 WIRING DEVICES:

A. Duplex receptacles shall be Hubbell #5352-X grounding type, 20A., 125V.; G.F.C.I. shall be Hubbell GF-5352-X, 20A., 125V.; duplex, G.F.C.I. TYPE. Wall toggle switches shall be Hubbell Number 1221-X and Number 1223-X for single pole and three way types respectively. Other switch, receptacle, and outlet device variations shall be by Hubbell of "Spec. Grade" quality. Equivalent devices of P & S or Leviton will be acceptable in lieu of the above listed devices. Contractor to verify color of devices and cover plates with Architect before purchase.

#### A. This Contractor shall furnish and install complete, unless otherwise specified, a lighting fixture on each and every lighting outlet shown on the drawings of each type scheduled by letter and description. All fixtures shall be equipped with lamps as scheduled or specified herein. All fixtures installed in suspended ceilings must be

12.0 LIGHTING FIXTURES:

securely fastened to framing members per NEC 410-36b and local seismic code requirements. 13.0 FIRE ALARM SYSTEM: A. Fire alarm system shall be a delegated design, contractor shall be responsible for layout and design of the fire alarm system. Submit all necessary documentation including stamped and signed drawings to the

#### submitting shop drawings. B. Engineer's drawings showing fire alarm devices are schematic, and only provide code intent, coordination, and all devices may not be indicated. Final layout shall be provided by the Fire Alarm contractor. Fire alarm contractor shall become the Designer of Record as such, the contractor shall be responsible to verify device layouts comply with all applicable codes and shall include in bid all cost associated with additional devices

authority having jurisdiction and obtain necessary permits for approval and installation of the system prior to

C. Contractor shall include in bid all cost associated with Fire alarm modifications.

should they be required. Final layout shall be coordinated with the architect and plans.

D. All new equipment shall be ADA compliant, be by one manufacturer, and warranted for a minimum of one

**END OF SECTION** 

## 210 100

05 <sub>I</sub>

03 <sub>I</sub>

#### FIRE PROTECTION

A. Fire protection shall be governed by all applicable provisions of the Contract Document.

06 <sub>I</sub>

- B. Provide a complete and operational fire protection system as required by NFPA, systems shall include:
- Wet sprinkler system -- NFPA 13.
- 2. Systems shall be compliant with NFPA 70, 72, FM and UL as applicable.
- C. All fire protection components shall be UL and FM approved devices where applicable as required by NFPA.
- D. Upon completion of the work, system acceptance testing shall be performed by the sprinkler contractor in accordance with requirements of NFPA with a completed copy of 'Contractor's Material and Test Certificate'
- E. All cable ties for controls and other cable systems located in plenums utilized for air movement that are not installed in conduit shall be 25/50 flame and smoke rated. Hellermann Tyton T50R2C2UL or equivalent.
- F. Provide permanent identification of all valves, piping, electrical components and equipment in accordance with
- G. Upon completion of the project, perform all flushing and testing of the system including pressure and flow tests and testing of all electrical, controls and safety components.
- H. Upon completion of the project, the fire protection contractor shall furnish 'Record' documentation including plans, equipment data sheets for all component and testing results stored in a document cabinet, located adjacent to the fire protection service entrance or as directed or required by NFPA.
- A. Systems shall be in accordance with NFPA 13 complete in every respect to provide complete coverage of all areas in the entire building or throughout the area of work as indicated. Sprinkler system shall be hydraulically
- designed per appropriate hazard class. B. Sprinkler system shall be a delegated design, contractor shall be responsible for layout and design of the fire sprinkler system. Submit all necessary documentation (plans, calculations, cut sheet literature and flow tests) and obtain necessary permits for approval and installation of the system. Provide PE or NICET stamp on
- submittal drawings. C. As required by application, system shall include but not be limited to pipe and hangers, sprinklers, valves, inspector tests, fire department connection, audible and visible alarms, pressure, flow and tamper switches, gages, control panels, wiring, hose valves, etc. Conform to the requirements of Division 16, FM and UL or IRI
- 1. System shall be an extension of and/or modifications to the existing building system. D. Reconfigure existing building sprinkler piping and/or sprinklers within the scope of work area in order to provide proper coverage per NFPA and Local Authorities.
- E. Upon final acceptance, the owner shall be responsible for proper maintenance as established by the latest edition of NFPA 25 'Standard for the inspection, Testing and Maintenance of Water Based Fire Protection
- 3.0 PIPING, FITTING AND VALVES:
- A. Fire protection above ground -
- Pipe a. All sizes - Schedule 40, black steel, malleable iron threaded, flanged or welded fittings; roll or cut
- groove mechanical joints with wrought or forged steel fittings or roll grooved end couplings. b. 1-1/2" and larger - Schedule 10, black steel; roll groove mechanical joints with roll grooved end
- Contractor to match existing building piping material standards.

when in gypsum board ceilings. All location tolerances shall be +/- 1/2".

- 2. Sprinkler piping shall be independently supported from all other systems, no other system or component may bear on any sprinkler pipe or support. In accordance with NFPA 25 or where required by local authority, sprinkler piping shall not be subjected to external loads by materials either hung from or resting
- 3. At contractor option, sprinklers may be supplied by UL 2443 listed 1" minimum 304 stainless steel (braided or unbraided corrugated) 175 PSIG rated flexible hoses with all associated UL listed fittings, threaded

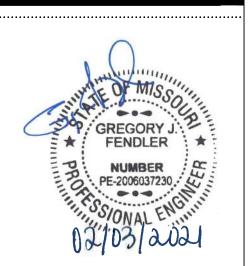
#### ends, brackets and other attachments, 6' maximum length. Victaulic Vic-Flex or acceptable equivalent.

- 4.0 SPRINKLERS A. Provide quick response sprinklers, standard response, extended coverage or dry sprinklers as required by
- application. B. Sprinklers shall be of the following styles, subject to application. 1. Where not otherwise indicated, sprinkler type, style, appearance and coverage to match existing.
- 2. Any sprinklers removed shall be replaced with new sprinklers C. Locate sprinklers at center of 2 x 2 lay-in tiles or 2 x 2 portion of 2 x 4 lay-in tiles. Align sprinklers in a row
- D. Refer to reflected ceiling plans for coordination with lights, diffusers, exit signs, etc.

END OF SECTION

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JORDAN'S

**CHIROPRATIC** 

SUMMIT CREST PLAZA 3552 SW MARKET STREET

LEE'S SUMMIT, MO 64082

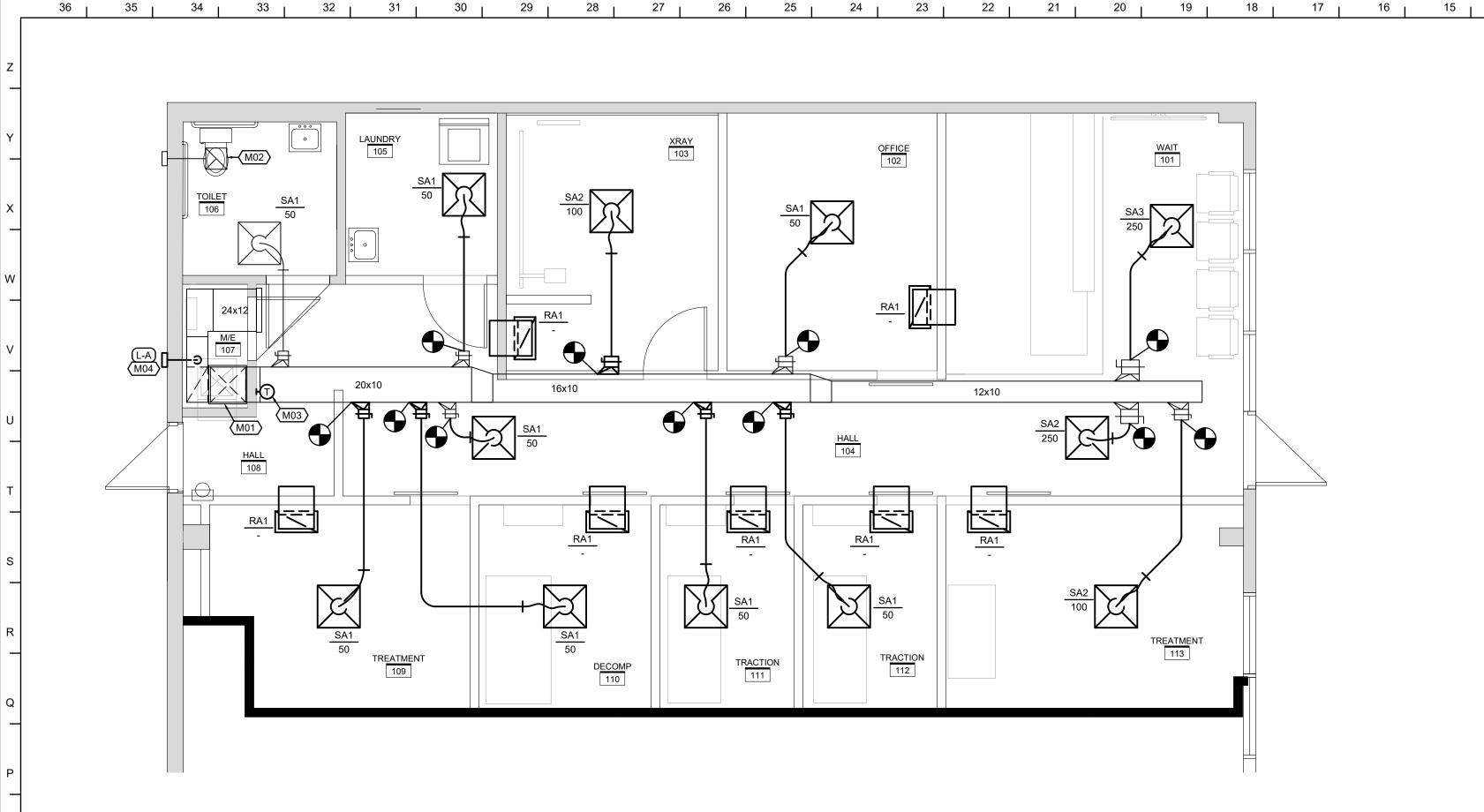
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**SPECIFICATIONS** 

SHEET AUTHOR CHECKED BY

**MEP102** 

JANUARY 19, 2021



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

# FLOOR PLAN NOTES

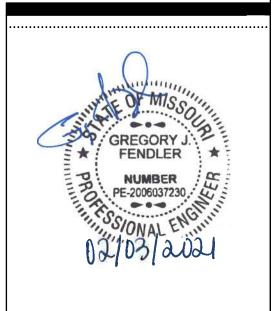
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- EXISTING SPLIT SYSTEM TO REMAIN. EXISTING SUPPLY AND RETURN TRUNK DUCTS TO REMAIN. VERIFY BALANCE. CLEAN AND ADD NEW FILTERS AS NECESSARY.
- 2. EXISTING EXHAUST FAN TO REMAIN. CLEAN AS NECESSARY.
- 3. EXISTING THERMOSTAT WITH WIRING AND CONTROLS TO BE RELOCATED, MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR.
- 4. PROVIDE LOUVER FOR OUTSIDE AIR. CONNECT BALANCING DAMPER TO OUTSIDE AIR AND RETURN AIR DUCT AND VERIFY CFM IS BALANCED ACCORDING TO THE SCHEDULE.



2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

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PROJECT

## JORDAN'S CHIROPRATIC

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

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SHEET TITLE

FLOOR PLAN-MECHANICAL

PROJECT NUMBER
2021000.000

SHEET AUTHOR
DMB

CHECKED BY
BJP

DATE
JANUARY 19, 2021

M101

			FACE	NECK	NO.			•
MARK	MANUFACTURER	M ODEL	SIZE (IN.)	SIZE (IN.)	OF SLOTS	FRAME TYPE*	FINISH	NOTES
SA1	PRICE	SPD	24x24	6	-	LAY-IN	WHITE	-
SA2	PRICE	SPD	24x24	8	-	LAY-IN	WHITE	-
SA3	PRICE	SPD	24x24	10	-	LAY-IN	WHITE	-
RA1	PRICE	PDDR	24x12	22x10	-	LAY-IN	WHITE	-

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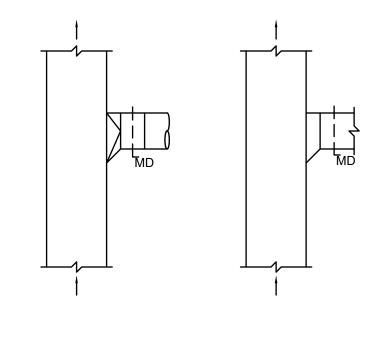
LOL	JVER S	CHE	DUL	E					
MARK NO.	MANUFACTURER	M ODEL	AIRFLOW (CFM)	WIDTH (IN.)	H⊟GHT (IN.)	FREE AREA (FT.)	MAXIMUM S.P. DROP	COLOR	NOTES
L-A	GREENHECK	ESD-435	185	12	9	0.15	0.025	-	1,2,3
L-B	DEFLECTO	SVHAW4	200	6	6	0.36	0.04	WHITE	4

## 2 COORDINATE LOUVER SIZE AND JAMB WITH ARCHITECT. CONTRACTOR TO VERIFY

- SIZE OF OPENINGS AND FIELD MEASURE PRIOR TO ORDERING LOUVERS.
- 3 COLOR AND FINISH TO BE SELECTED BY ARCHITECT.

\*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

4 PROVIDE WITH PIPE AND COLLAR.

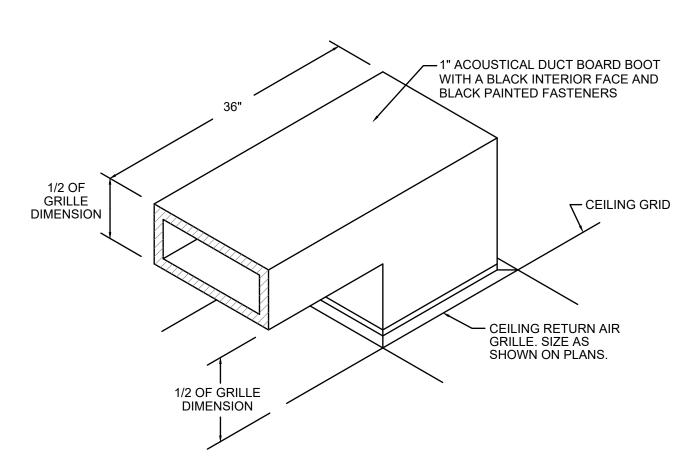


ROUND **RECTANGULAR** SUPPLY BRANCH SUPPLY BRANCH "TAKE-OFFS" "TAKE-OFFS" (20% OR LESS AIRFLOW TO BRANCH (20% OR LESS AIRFLOW TO BRANCH

**DUCT STANDARDS** 

LOW & HIGH VELOCITY)

LOW & HIGH VELOCITY)



NOTE: PAINT FASTENERS INSIDE BLACK

# RETURN AIR BOOT DETAIL

NO SCALE

45° ANGLE ENTRY BRANCH CONNECTION

#### MAIN DUCT-BAND FLEX ENDS WITH NYLON TAKE-OFF WITH MANUAL STRAPS (TYP)-DAMPER; SEE DUCT STANDARD DETAIL DUCT ROUND FLEX DUCT -60" MAX. LENGTH-SCREW (TYP) MANUAL DAMPER @ DIFFUSER LINSULATED SHEET METAL ONLY WHERE DUCT-MOUNTED ELBOW OR THERMAFLEX DAMPER WOULD BE "FLEX FLOW ELBOW" INACCESSIBLE -

15 <sub>I</sub>

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11 <sub>I</sub>

- 1. BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.
- 2. IN LOCATIONS WHERE TAKEOFFS ARE INSTALLED ABOVE HARD OR NON-ACCESSIBLE CEILINGS CONTRACTOR TO PROVIDE SCREWS TO PREVENT BRANCH DUCT FROM SLIDING OFF FITTING. INSPECT PRIOR TO CEILING INSTALLATION.

## DIFFUSER DETAIL

## GENERAL NOTES (TYPICAL ALL SHEETS)

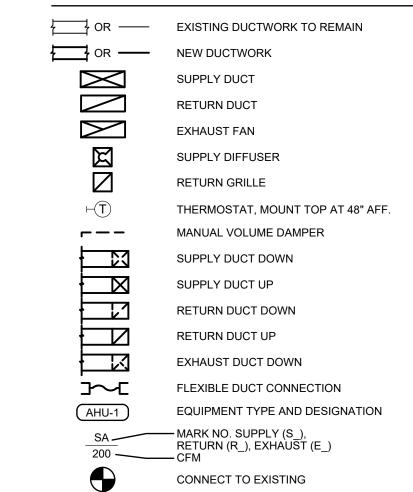
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- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.

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- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- H. THE THERMOSTAT SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE
- ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED
- INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- K. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

# MECHANICAL SYMBOLS

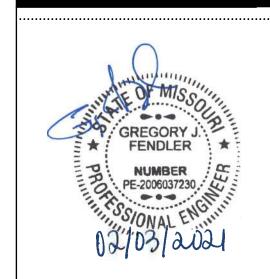




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COA No. 2006001168

## JORDAN'S **CHIROPRATIC**

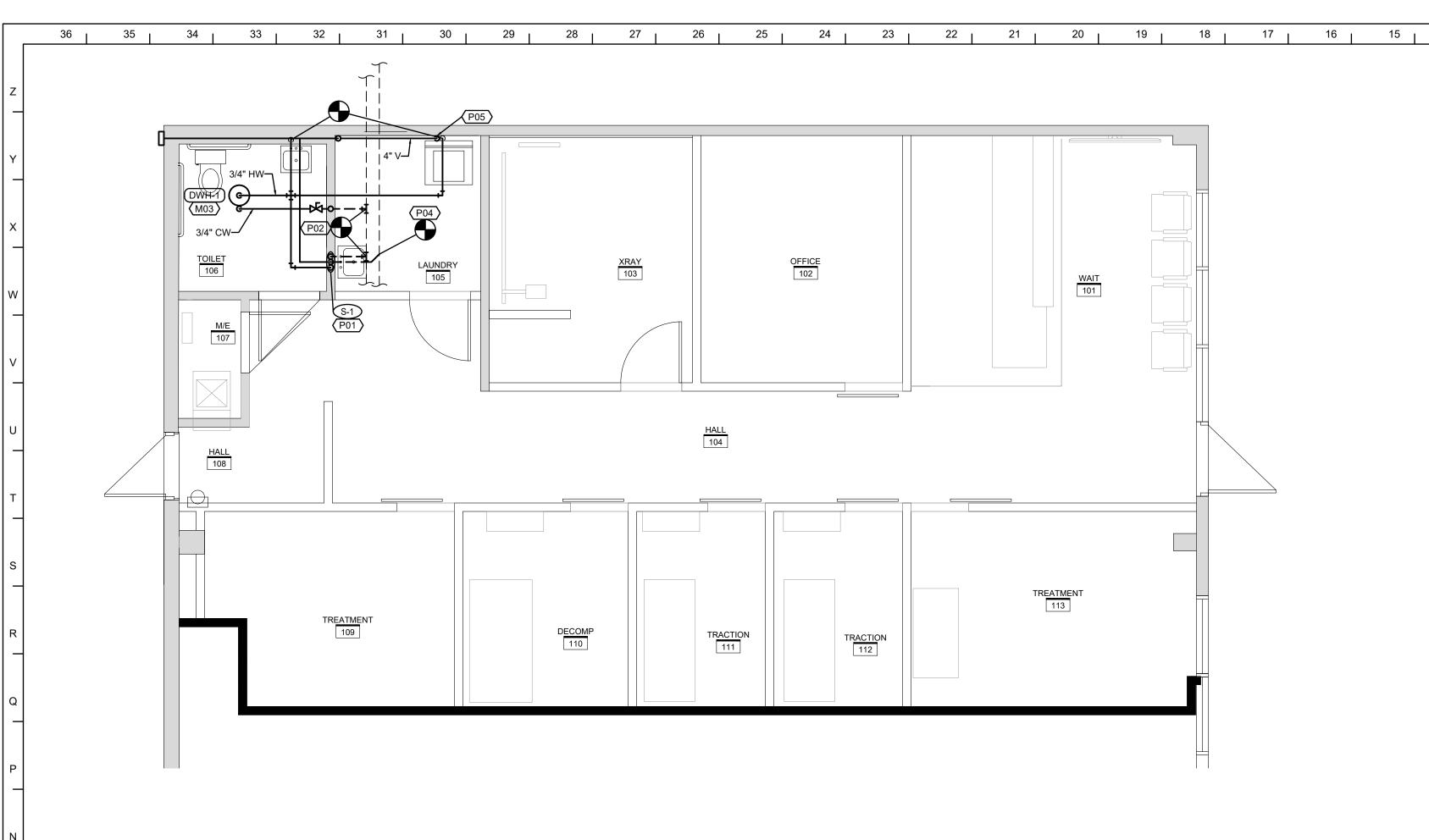
SUMMIT CREST PLAZA 3552 SW MARKET STRFFT LEE'S SUMMIT, MO 64082

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MECHANICAL DETAILS, SCHEDULES, NOTES, AND SYMBOLS

PROJECT NUMBER 2021000.000	
SHEET AUTHOR DMB	
CHECKED BY BJP	
DATE JANUARY 19, 2021	

**M201** 



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

# FLOOR PLAN NOTES

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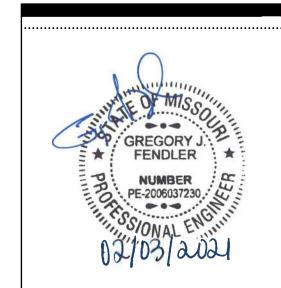
- PROVIDE NEW SINK AND CONNECT TO NEW 1/2" COLD WATER, 1/2" HOT WATER, 2" WASTE & 1-1/2" VENT PIPING. PROVIDE HUB DRAIN AND WALL CLEANOUT BELOW SINK.
- CONNECT TO EXISTING COLD WATER IN THIS LOCATION, FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 3. PROVIDE ELECTRIC WATER HEATER INSTALLED ON PLATFORM FROM STRUCTURE UTILIZING ALL THREAD RODS PER MANUFACTURER'S REQUIREMENTS. PROVIDE FULL SIZED DRAIN LINE FROM T&P VALVE TO DRAIN PAN. PROVIDE FULL SIZED DRAIN LINE FROM DRAIN PAN TO HUB DRAIN BELOW SINK.
- 4. CONNECT TO EXISTING WASTE AND VENT PIPING IN THIS LOCATION, FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 5. VENT PIPING CONNECTED TO DRYER BOX.



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PROJECT

## JORDAN'S CHIROPRATIC

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

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FLOOR PLAN-PLUMBING

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				TANK				E	LECTRICA	L	
MARK NO.	MANUFACTURER	M ODEL NO.	TANK LINING	CAPACITY (GAL)	RECOVERY (GPH @ 90 F)	INPUT (KW)	THERMAL EXPANSION TANK MODEL NO.	VOLT	Ø	HZ	NOTES
DWH-1	AO SMITH	DEL-20S-4.5	GLASS	20	20	4.5	PLT-5	208	3	60	1,2
NOTES:	PROVIDE WITH TEM     PROVIDE WITH CON				EDULED WITH WATTS S	CV SERVICE CHEC	CK VALVE			<u> </u>	<u> </u>

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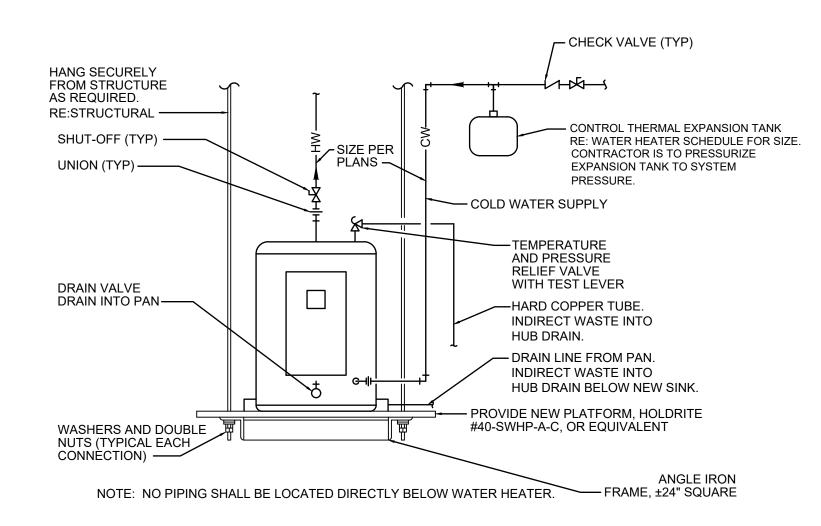
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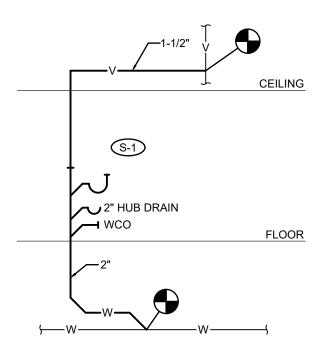
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PLU	PLUMBING FIXTURE SCHEDULE								
MARK NO.	FIXTURE TYPE	M ANUFACTURER	M ODEL NO.	DESCRIPTION	CONNECTION SIZE		CONNECTION SIZE		
WARKING.	FIXTURE LIFE	WANDFACTURER	WODEL NO.	DESCRIPTION		нw	WASTE	VENT	
S-1	SINK (ADA)	ELKAY	LRA D-1918	SINGLE COMPARTMENT SELF RIMMING SINK, 18 GA, TYPE 304 STAINLESS STEEL, 6-1/2" DEEP BOWL.  CHICAGO FAUCETS MODEL 786-GR2E35V317XKAB DECK MOUNTED FAUCET WITH CERAMIC OPERATING CARTRIDGE, 4" WRIST BLADE HANDLES, 5-1/4" RESTRICTED SWING GOOSENECK SPOUT WITH VANDAL RESISTANT 1.5 GPM AERATOR. ACCESSORIES: ELKAY LK-35 STRAINER WITH 1-1/2" TAILPIECE, 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS.	1/2"	1/2"	2"	1-1/2"	





## ELECTRIC WATER HEATER DETAIL NO SCALE

WASTE AND VENT RISER DIAGRAM

## GENERAL NOTES (TYPICAL ALL SHEETS)

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- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. PLUMBING CONTRACTOR SHALL BID WORK IN CEILING SPACE BELOW TO BE COMPLETED AFTER HOURS ONLY IN AREAS THAT ARE NOT OCCUPIED BY THE OWNER'S PERSONNEL. CONTRACTOR SHALL COORDINATE WORK/TIMES WITH THE OWNER'S REPRESENTATIVE.
- G. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- H. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL BID AND SCHEDULE ALL CORE DRILLING AND HAMMER DRILLING
- PLUMBING CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- K. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50 R2C2UL OR EQUIVALENT.

## DITIMPING CAMBOLS

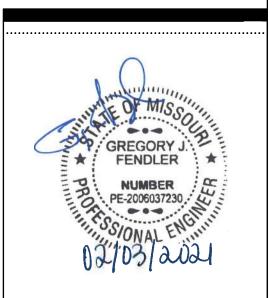
PLUIVIE	SING STWIDULS
	EXISTING TO REMAIN
	NEW PIPING
cw	COLD WATER
HW	HOT WATER
V	SANITARY VENT ABOVE GROUND/FLOOR
— —w— —	SANITARY WASTE BELOW GROUND/FLOOR
<b>──坏</b> ──	SHUT OFF VALVE
——  <b>-</b> ——	UNION
<b>⊸</b> ∍ <b>⊸</b> o	PIPE DROP/PIPE RISE
<del></del>	BOTTOM OUTLET TEE
<del>-</del> o	TOP OUTLET TEE
wco <b>⊢</b>	WALL CLEAN OUT
DWH-1	EQUIPMENT TYPE AND DESIGNATION
	PLUMBING FIXTURE DESIGNATION
	CONNECT TO EXISTING



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JORDAN'S

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**CHIROPRATIC** 

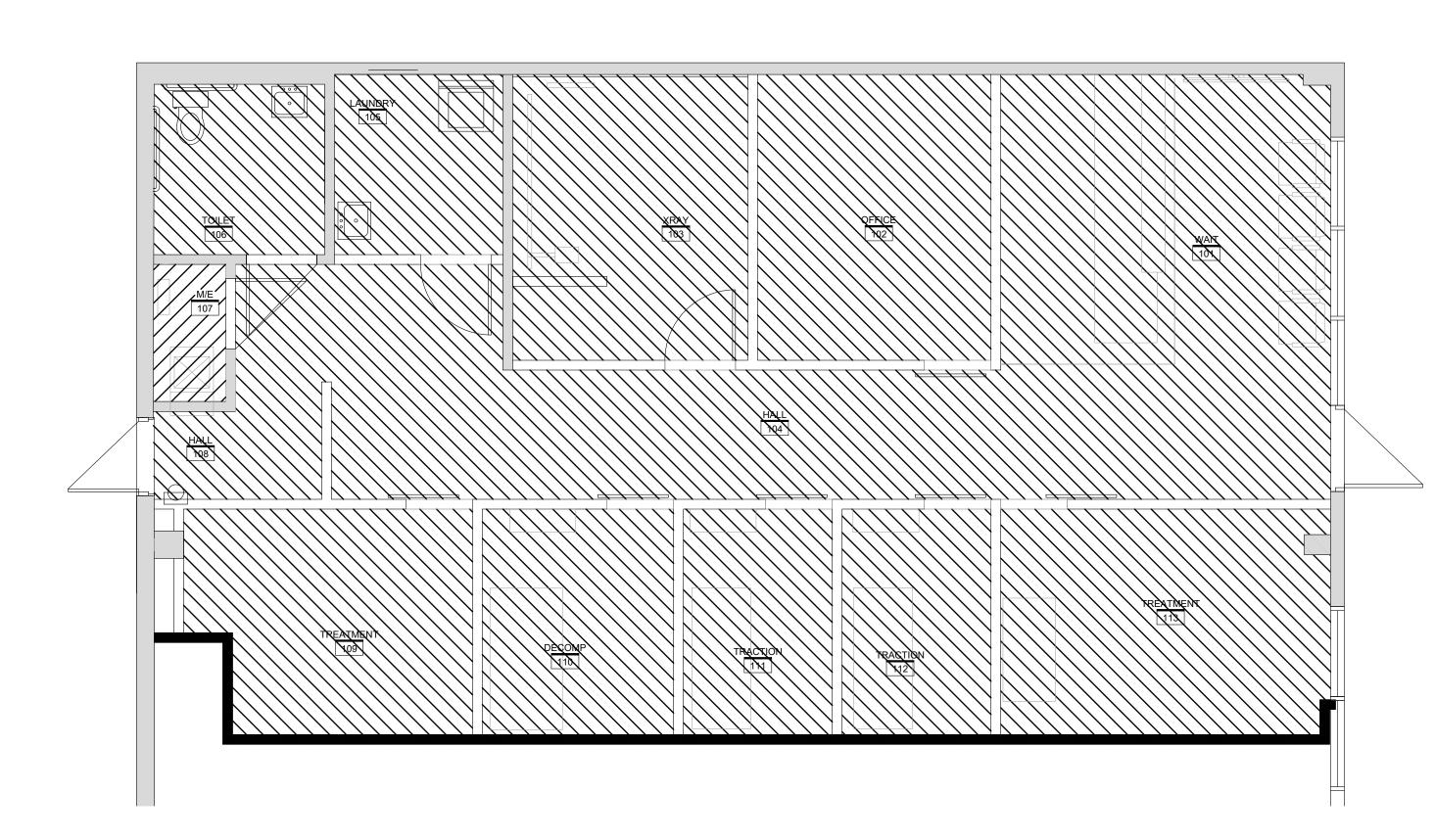
SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

02.03.2021 PERMIT

PLUMBING DETAILS, SCHEDULES, NOTES, AND SYMBOLS

CHECKED BY DATE JANUARY 19, 2021

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FLOOR PLAN-FIRE PROTECTION N

## FIRE PROTECTION DESIGN CRITERIA

- ENTIRE BUILDING AS SHOWN ON DRAWINGS IS CURRENTLY PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. MODIFY SYSTEM AS NECESSARY FOR NEW WALL LAYOUTS AND IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.
- FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.
- NEW FIRE PROTECTION PIPING AND FITTINGS SHALL MATCH EXISTING, OR PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.
- NEW FIRE SPRINKLERS SHALL MATCH EXISTING IN TYPE, STYLE AND APPEARANCE. ANY REMOVED/RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION.
- ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2'x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.
- FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO
- CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.
- CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10%
- PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.
- CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.
- ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- NFPA 13 2016 ED 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2 (15MM) SIZE; OR AUTOMATIC AIR VENT.
- ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.
- SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION.COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.
- FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL

## FIRE PROTECTION LEGEND

RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.

> LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.



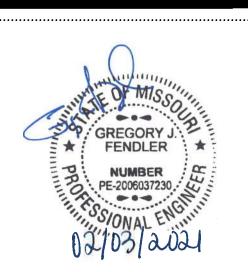
PROVIDE PRE-ENGINEERED CLEAN AGENT FIRE EXTINGUISHING SYSTEM, INCLUDING TANKS, VALVES, PIPING, CONTROL PANEL, NOZZLES, SENSORS AND ALARMS IN ACCORDANCE WITH NEPA 2001 NEPA 72 AND LOCAL ALITHOPITIES. SYSTEM INCLUDES CERABATE TO LECTURE AND LOCAL ALITHOPITIES. NFPA 2001, NFPA 72 AND LOCAL AUTHORITIES. SYSTEM INCLUDES SEPARATE ZONES ABOVE AND BELOW THE CEILING AND BENEATH THE RAISED FLOOR. RE: DRAWINGS FOR LOCATION OF MAJOR COMPONENTS.



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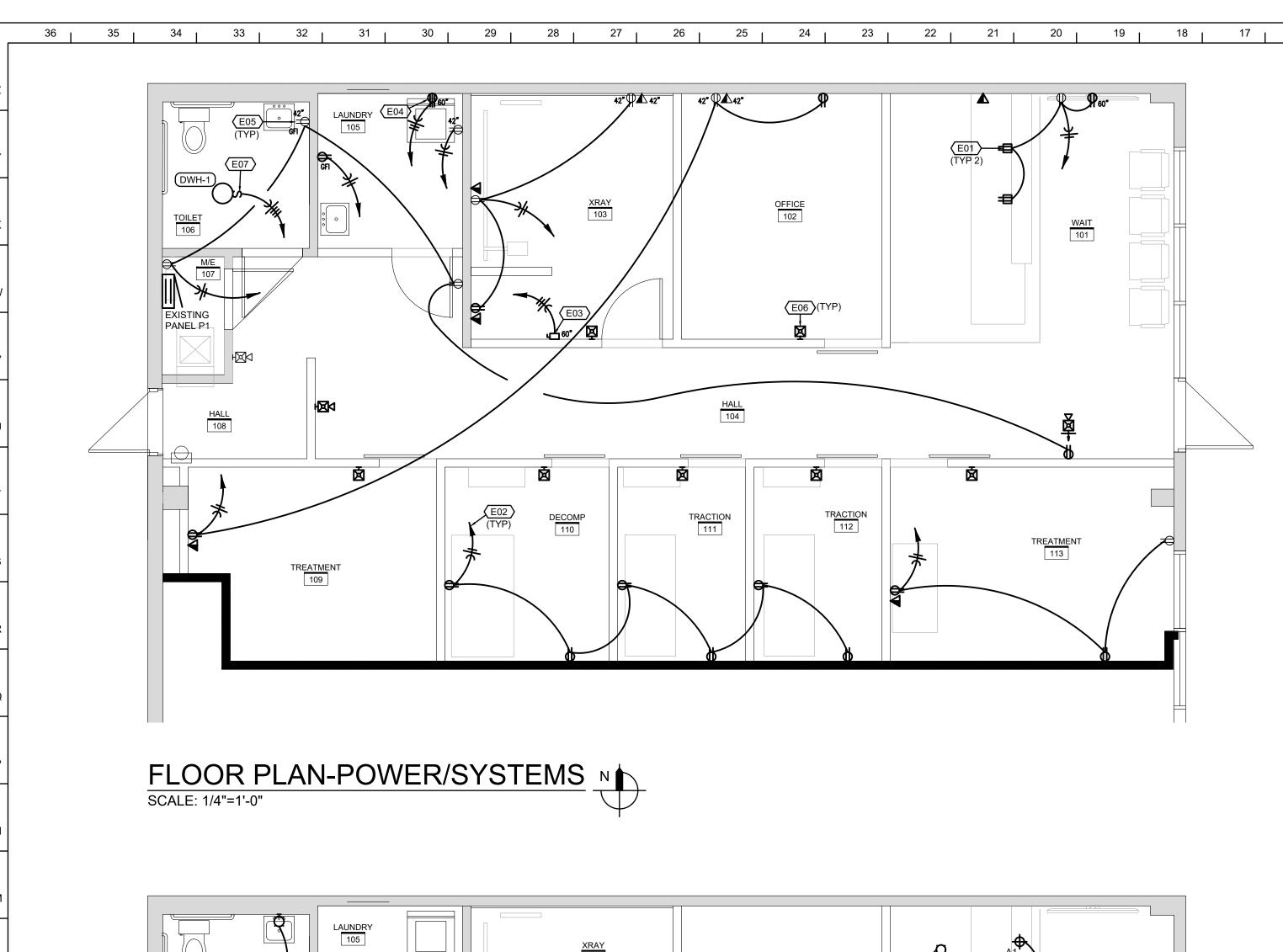
# JORDAN'S CHIROPRATIC

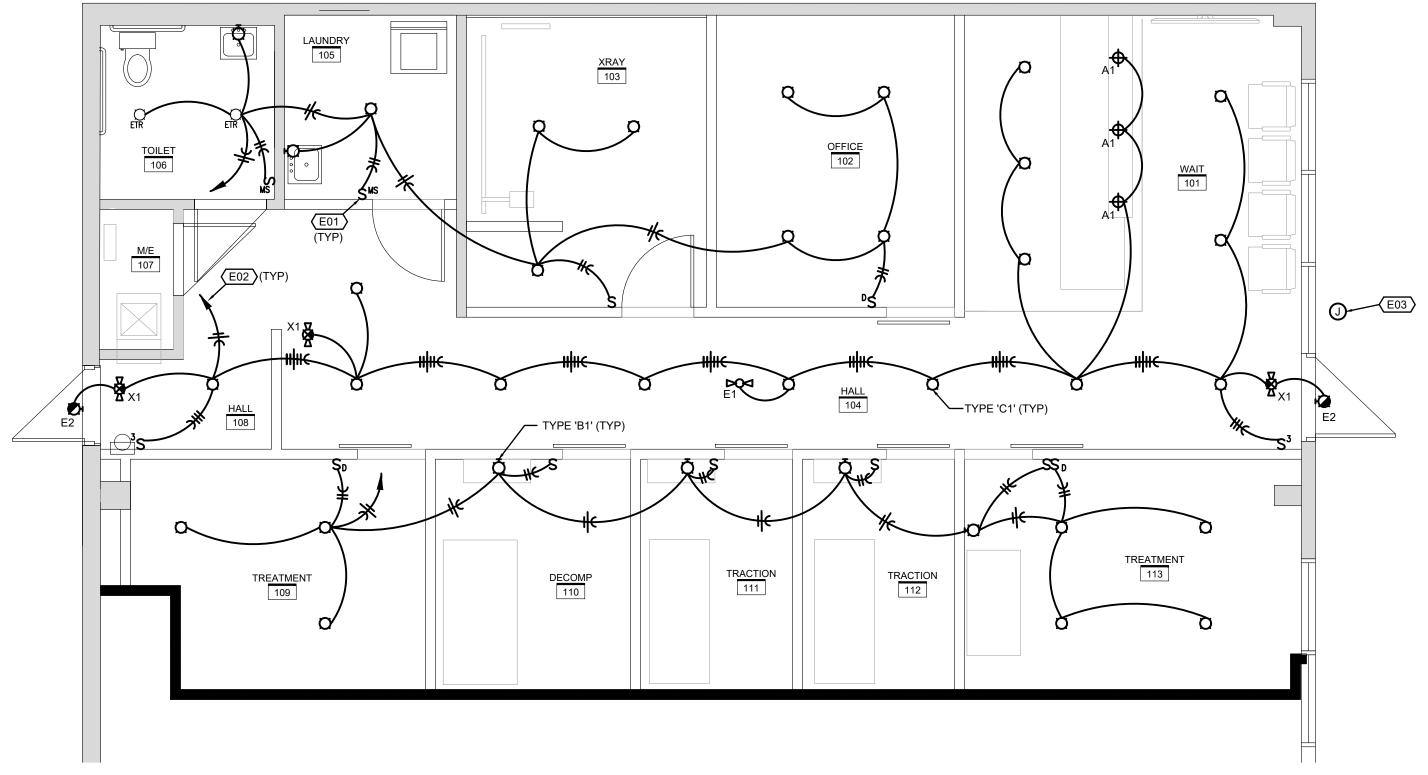
SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

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FLOOR PLAN-FIRE PROTECTION

2021000.000 SHEET AUTHOR CHECKED BY JANUARY 19, 2021





FLOOR PLAN-LIGHTING N

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

## POWER/SYSTEMS PLAN NOTES

1. INSTALL DEVICE IN MILLWORK. FEED FROM ADJACENT WALL.

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- 2. HOMERUN TO EXISTING PANEL P1 AND TERMINATE ON A 20A/1P BREAKER.
- PROVIDE A 100A/2P DISCONNECT SWITCH, FUSED AT 100 AMPS, IN A NEMA 1 ENCLOSURE AND MAKE CONNECTION TO X-RAY EQUIPMENT.
- 4. PROVIDE 220V/30A RECEPTACLE FOR DRYER. COORDINATE RECEPTACLE CONFIGURATION WITH DRYER.
- 5. REPLACE EXISTING WIRING DEVICE WITH NEW DEVICE AND COVER PLATE.
- 6. CONNECT NEW FIRE ALARM DEVICE TO EXISTING FIRE ALARM SYSTEM.
- 7. PROVIDE 20A/3P DISCONNECT AND MAKE CONNECTION TO WATER HEATER. HOMERUN TO PANEL 'P1' AND TERMINATE ON A 20A/3P BREAKER.

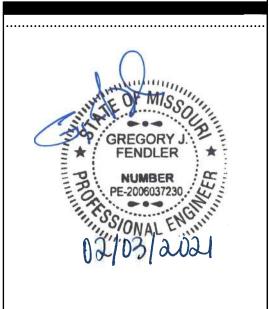
## **LIGHTING PLAN NOTES**

- DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR (BY WATTSTOPPER OR HUBBELL)
- 2. HOMERUN TO EXISTING PANEL P1 AND TERMINATE ON A 20A/1P BREAKER.
- 3. DISCONNECT POWER TO EXISTING SIGNAGE AND RECONNECT TO NEW SIGN.



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JORDAN'S CHIROPRATIC

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION

02.03.2021 PERMIT

SHEET TITLE

FLOOR PLANS-ELECTRICAL

PROJECT NUMBER
2021000.000

SHEET AUTHOR
DMB

CHECKED BY
GJF

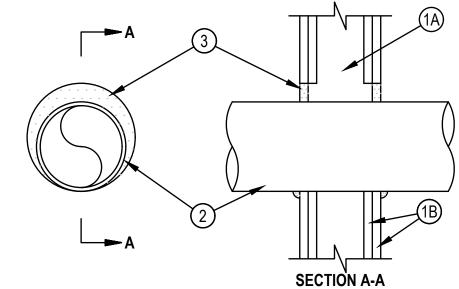
DATE
JANUARY 19, 2021

E101



#### System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



- SECTION A-A

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

  A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is
- present between the penetrating item and the framing on all four sides.

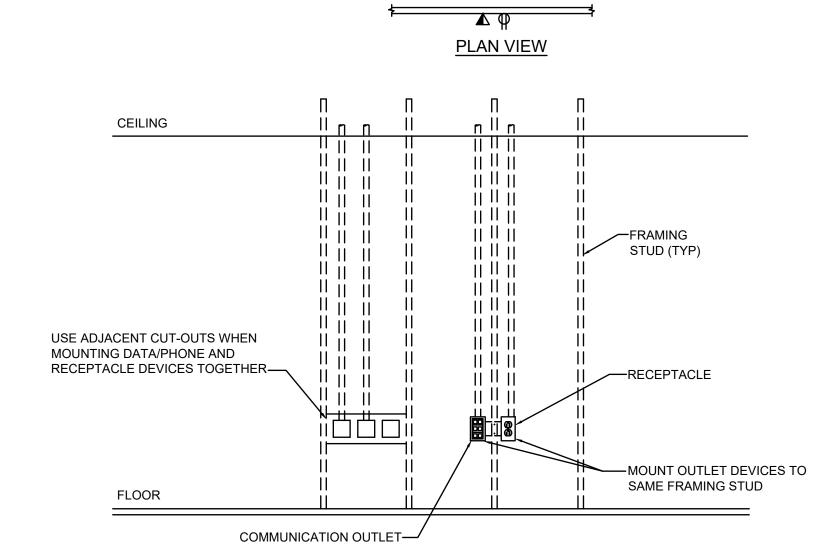
  B. Gypsum Board\* 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of
- opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

  The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

  2.Through-Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space
- 2. Through-Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. Steel Pipe Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
- C. Conduit Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
- D. Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. Copper Pipe Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

  3.Fill, Void or Cavity Material\* Sealant Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-One Sealant or FS-ONE MAX Intumescent Sealant
- \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

# GYPSUM/STUD WALL FIRE STOPPING DETAIL NO SCALE NON-INSULATED METALLIC PIPES

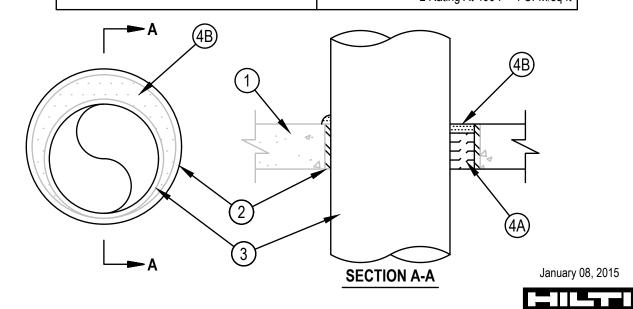


MOUNTING OUTLET DETAIL
NO SCALE



#### System No. C-AJ-1380

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr
L Rating At 400 F - 4 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - 4 CFM/sq ft



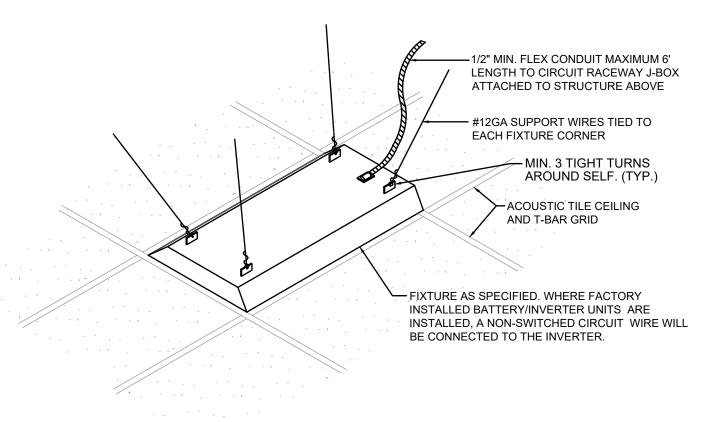
- 1. Floor or Wall Assembly Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 31-7/8 in. (810 mm). See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.
- 2. Metallic Sleeve (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- 3. Through-Penetrant One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor assembly. The annular space between pipe or conduit and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). The following types and sizes of metallic pipes or conduits may be used:
- A. Steel Pipe Nom 30 in.(762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Cast Iron Pipe Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
  C. Copper Pipe Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- D. Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

  D. Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. Conduit Nom 6 in. (152 mm) diam (or smaller) steel conduit.
- F. Conduit Nom 4 in. (102 mm) (or smaller) steel electrical metallic tubing (EMT).
- 4. Firestop System The firestop system shall consist of the following:
   A. Packing Materials Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form.
   Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
- B. Fill Void or Cavity Materials\* Sealant Min 1/2 in. (13 mm) thickness of fill material applied within annulus, flush with top surface of floor. At point contact, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/sleeve/pipe interface on the top surface of the floor and both
- surfaces of wall.

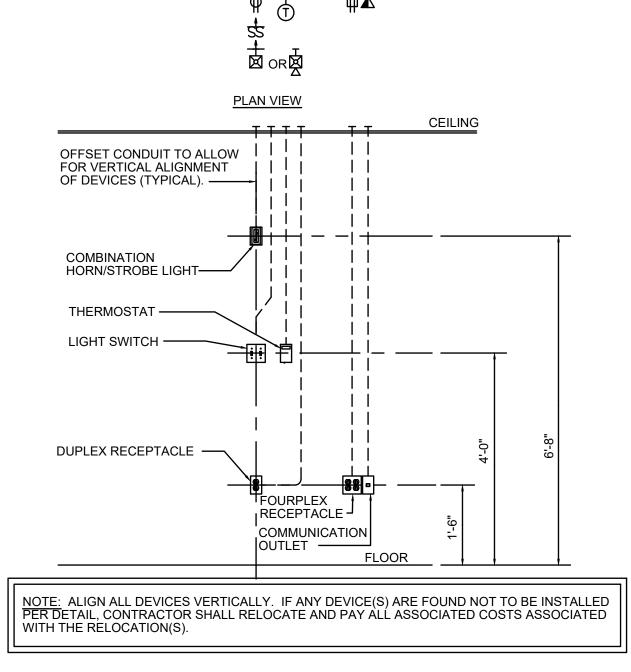
  HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

# CONCRETE WALL/FLOOR FIRE STOPPING DETAIL NO SCALE NON-INSULATED METALLIC PIPES



# LIGHT FIXTURE MOUNTING AND BRACING DETAIL NO SCALE



TYPICAL WALL MOUNTING DEVICE DETAIL

NO SCALE

# BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART\*

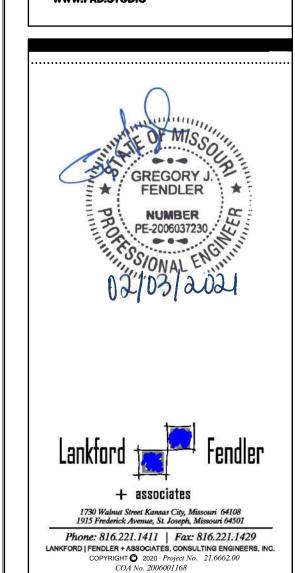
OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4" 3/4"		3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

- \* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- \* = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.
- \* = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.



2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

816 502 1500 WWW.PAD.STUDIO



JORDAN'S CHIROPRATIC

SUMMIT CREST PLAZA 3552 SW MARKET STREET LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION
02.03.2021 PERMIT

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NUMBER
2021000.000

SHEET AUTHOR
DMB

CHECKED BY
GJF

DATE
JANUARY 19, 2021

E201

ΓΥΡΕ	MANUFACTURER	LAMPS	WATTS VOLTS	DESCRIPTION	NOTES
A1	TO BE SELECTED	LED	20 120		1
B1	FOUNDSTONE AMIRA 2-LIGHT	(2) 60W E12 CANDELABRA LED EQUIVALENT	30 120	DUAL LAMP WALL SCONCE, BLACK FINISH, LED LAMPING, GLASS CLEAR GLOBE.	1
C1	HE WILLIAMS 6DR-TL-L15-8-35-DIM-UNV OR APPROVED EQUAL	LED 1500 LUMEN 3500K, 80 CRI	<u>14</u> 120	NOMINAL 6" DIAMETER RECESSED LED DOWNLIGHT, SELF-FLANGED, SEMI-SPECULAR TRIM AND REFLECTOR, DIMMING DRIVER.	
E1	HE WILLIAMS EMER/CP/ADJ/LED-WHT-D OR APPROVED EQUAL	LED W/ FIXTURE	4 120	CEILING MOUNTED, DUAL HEAD, LED EMERGENCY LIGHTING UNIT, WHITE POLYCARBONATE HOUSING, EMERGENCY BATTERY.	
E2	SURE-LITES SELD-W-A-50-BZ-SD OR APPROVED EQUAL	LED W/ FIXTURE	4 120	WALL MOUNTED, WET LOCATION LISTED, EXTERIOR EMERGENCY LIGHTING UNIT, BRONZE FINISH.	2
X1	HE WILLIAMS EXIT/EM/LED-R-WHT-D OR APPROVED EQUAL	LED W/ FIXTURE	<u>6</u> 120	COMBINATION EXIT AND EMERGENCY LIGHTING UNIT, LED, RED LETTERS, WHITE POLYCARBONATE HOUSING, EMERGENCY BATTERY.	

23 <sub>l</sub> 22 <sub>l</sub>

21 <sub>l</sub>

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08 <sub>I</sub>

#### SPECIFIC NOTES:

35 <sub>I</sub>

1 CONFIRM MOUNTING HEIGHT WITH ARCHITECT.

29 <sub>I</sub>

28 <sub>l</sub>

27 <sub>|</sub> 26 <sub>|</sub>

25 <sub>l</sub>

24 <sub>l</sub>

2 MOUNT ABOVE DOOR.

#### SUBSTITUTION NOTES:

THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE

- CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:

  S1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES
  - A GUARANTEE TO SUPPLY THE SPECIFIED FIXTURES.

    S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY. (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS).
  - S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY, (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS)
  - DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
  - S3. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM.
  - THEREFORE, FOR EACH AND EVERY TYPE OF FIXTURE OFFERED AS AN UNSOLICITED ALTERNATE, A \$500.00 FEE WILL BE CHARGED TO THE
  - CONTRACTOR FOR REVIEW OF THE ALTERNATE FIXTURE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE
  - THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT MUST BE
  - RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.

    S4. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED.
- S5. MANUFACTURER'S REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING FOR SPECIFIED LIGHTING FIXTURES.
- S6. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.

#### OENEDAL NOT

## GENERAL NOTE: G1. ELECTRICAL CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ANY LIGHT FIXTURES.

G2. ELECTRICAL CONTRACTOR SHALL COORDINATE DIMMING DRIVERS/BALLASTS WITH DIMMING SWITCHES/SYSTEMS AND SHALL INCLUDE ALL REQUIRED CONTROL WIRING.

# GENERAL NOTES (TYPICAL ALL SHEETS)

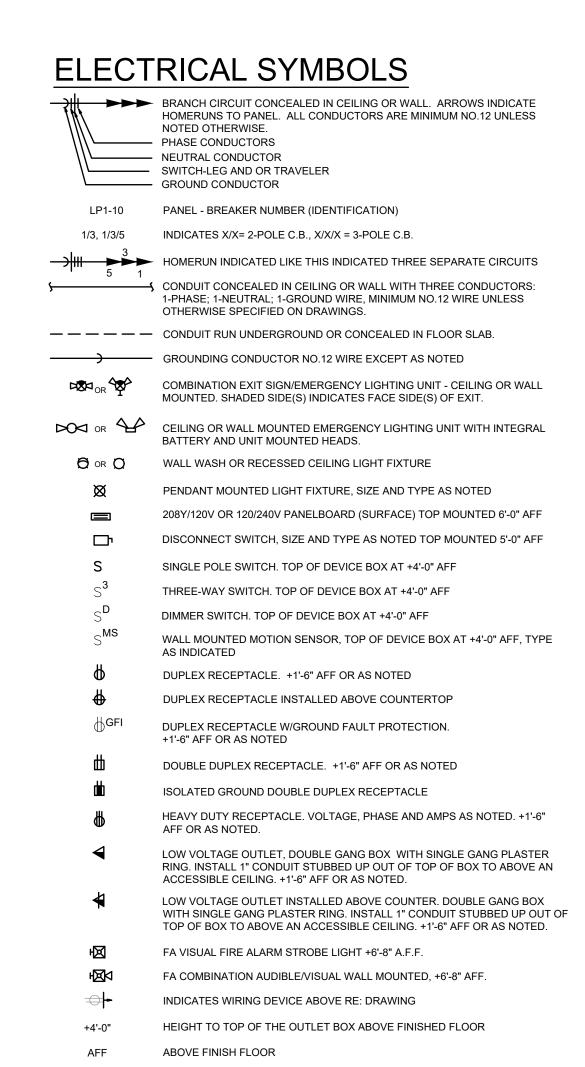
07 <sub>I</sub>

A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.

06 <sub>l</sub>

05 <sub>l</sub>

- B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- C. WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL NOT BE TAKEN PAST THE FIRST JUNCTION BOX BEFORE THE PANELBOARD.
- D. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- E. NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- F. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.
- G. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- H. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- I. REPAIR AND/OR REPLACE ANY DAMAGED CEILING TILE OR GRID DUE TO INSTALLATION OF CONDUITS, ETC. ABOVE EXISTING CEILING. WALK BUILDING WITH ARCHITECT PRIOR TO COMMENCING WORK TO NOTE ANY EXISTING DAMAGED CEILING TILE OR GRID.



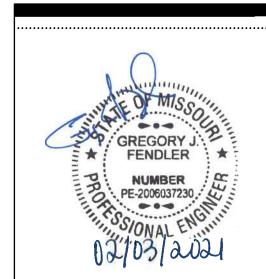
EXISTING TO REMAIN

FIRE ALARM



2000 SHAWNEE MISSION PARKWAY SUITE 100 MISSION WOODS, KS 66205

816 502 1500 WWW.PAD.STUDIO





PROJECT
JORDAN'S

**CHIROPRATIC** 

SUMMIT CREST PLAZA 3552 SW MARKET STREET

LEE'S SUMMIT, MO 64082

MARK DATE DESCRIPTION

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SHEET TITLE

ELECTRICAL SYMBOLS, SCHEDULES & GENERAL NOTES

PROJECT NUMBER
2021000.000

SHEET AUTHOR
DMB

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GJF

DATE
JANUARY 19, 2021

E301