LEOK OFFICE RENOVATION

209 SE DOUGLAS LEE'S SUMMIT, MO 64063

PERMIT SET

JULY 17, 2023

COLLINS WEBB #: 23033





OWNER

LEIGH + O'KANE 250 NE MULBERRY | SUITE 201 LEE'S SUMMIT, MO 64086 P: 816.444.3144

ARCHITECT

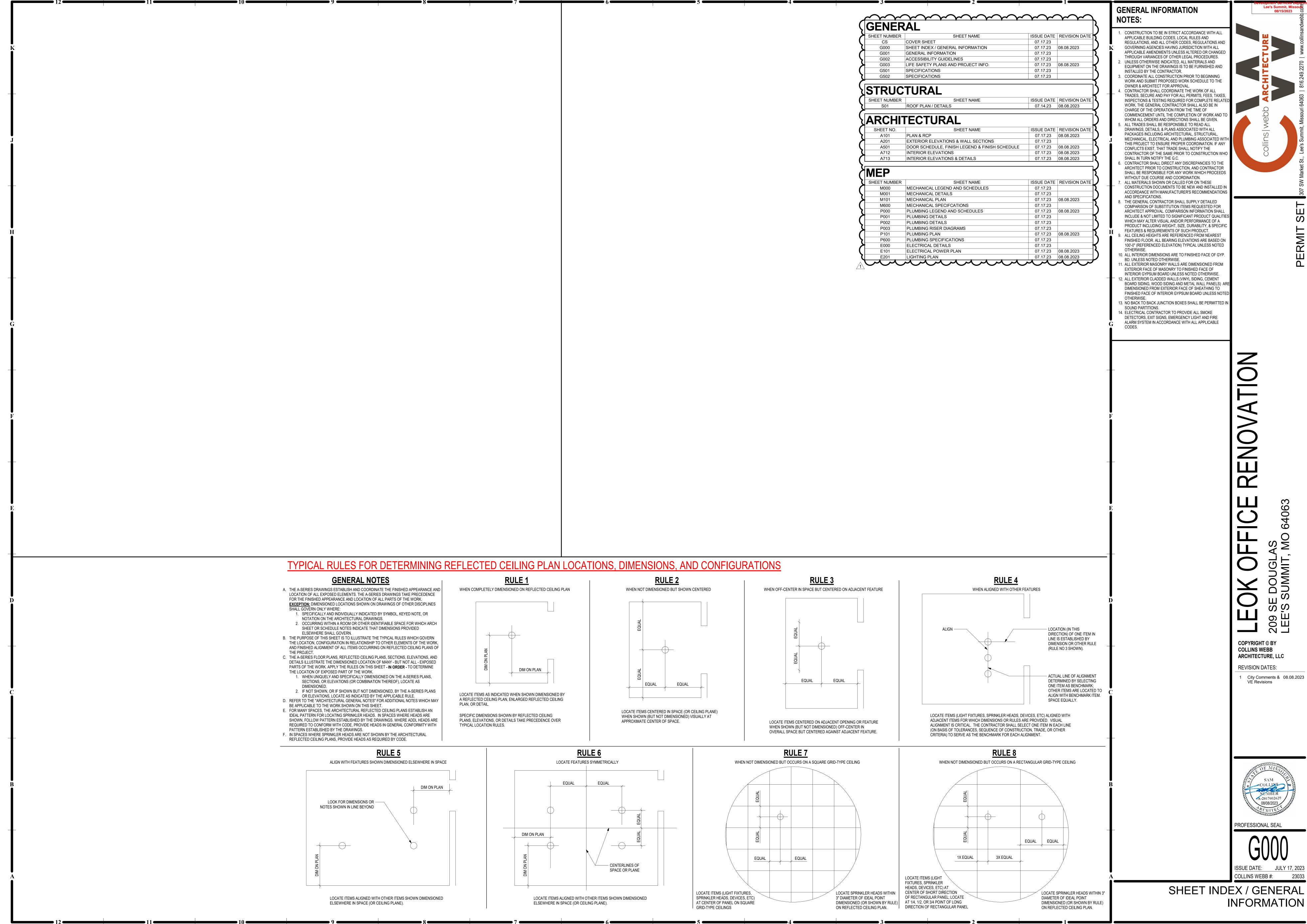
COLLINS | WEBB ARCHITECTURE 13A SW 3RD STREET LEE'S SUMMIT, MISSOURI 64063 P: 816.249.2270 www.collinsandwebb.com

STRUCTURAL ENGINEER

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MEP ENGINEER

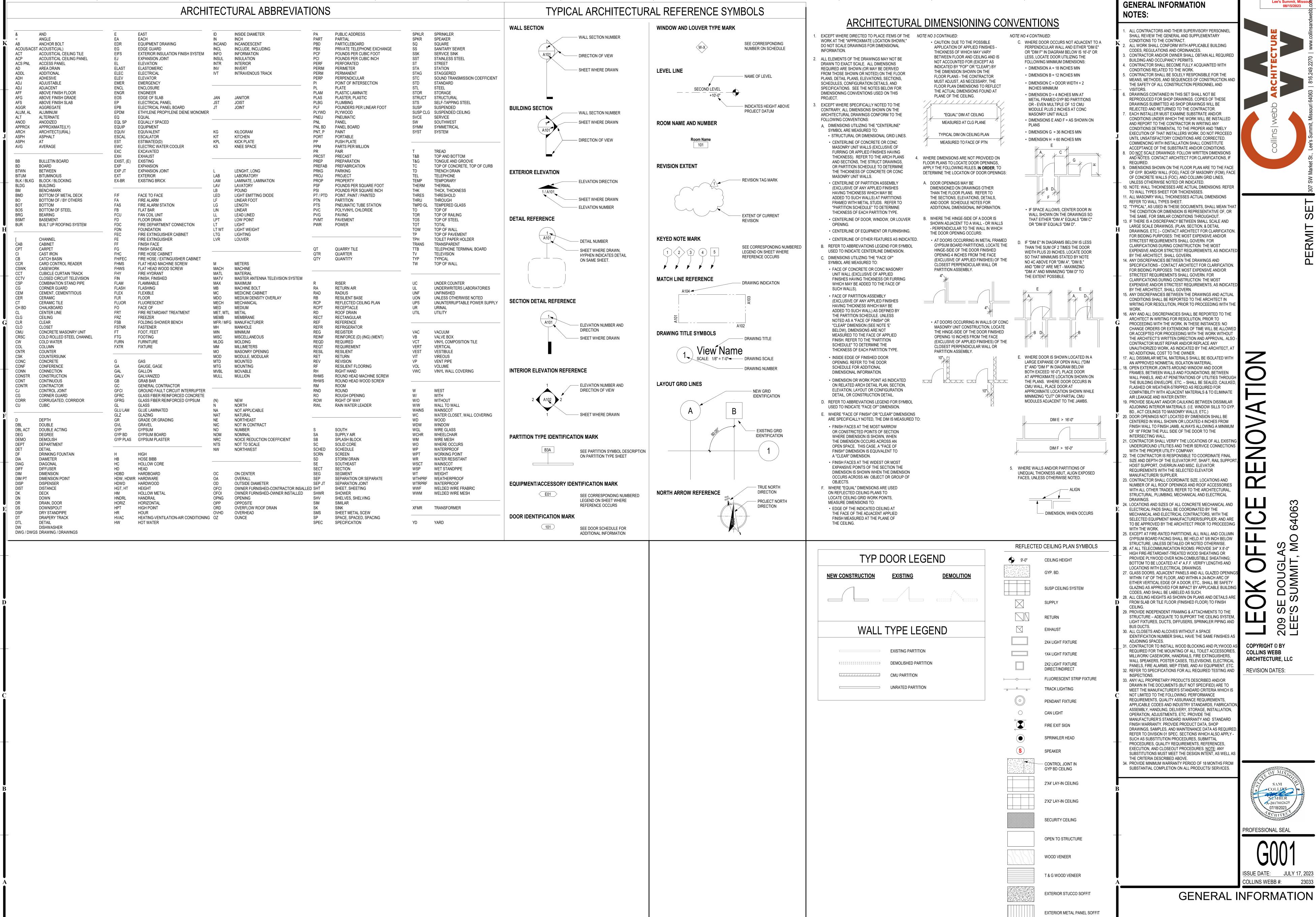
GIBBINS DRAKE SCOTT, INC. 9201 E 63RD ST RAYTOWN, MO 64133 P: 816.358.1790



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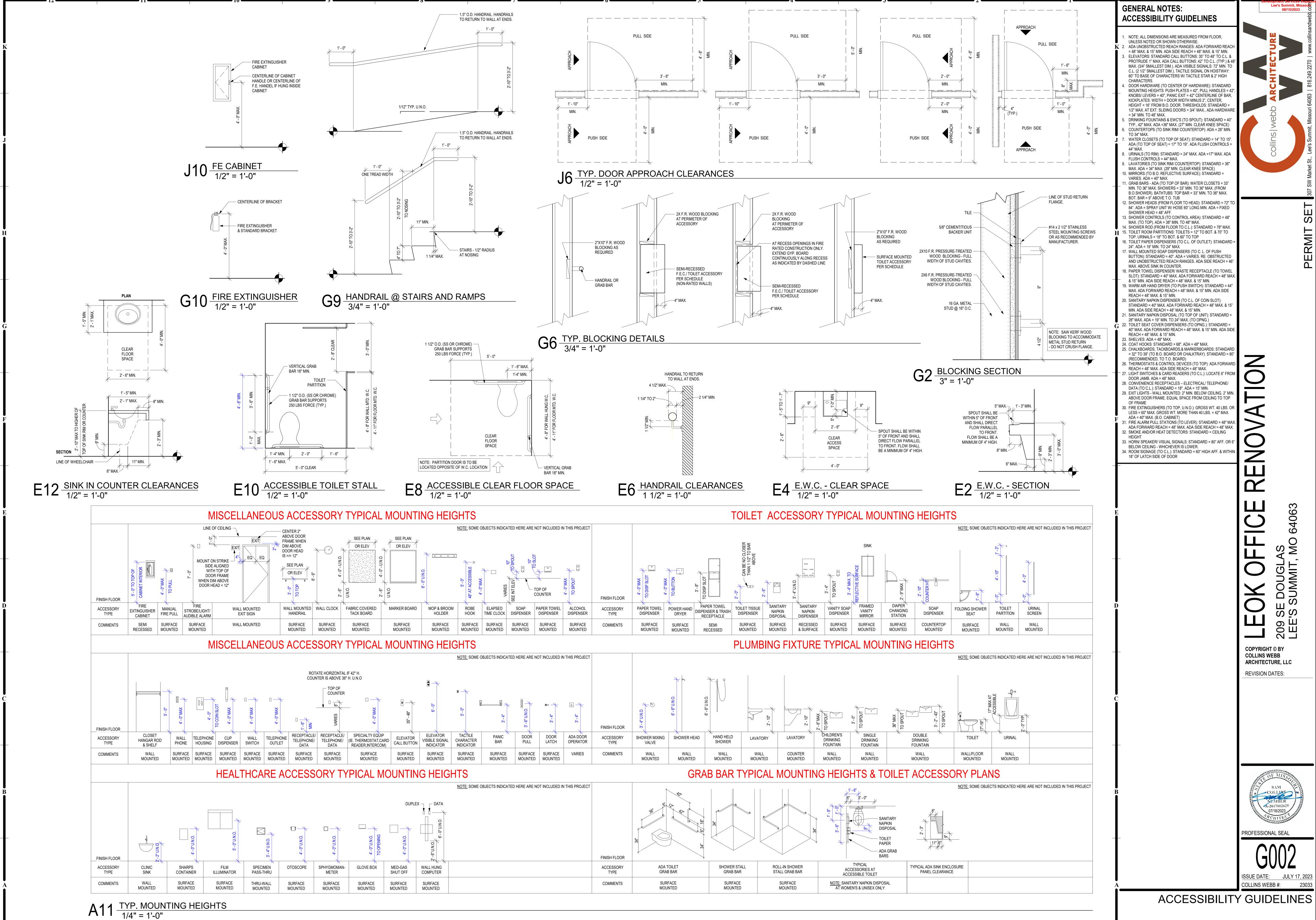


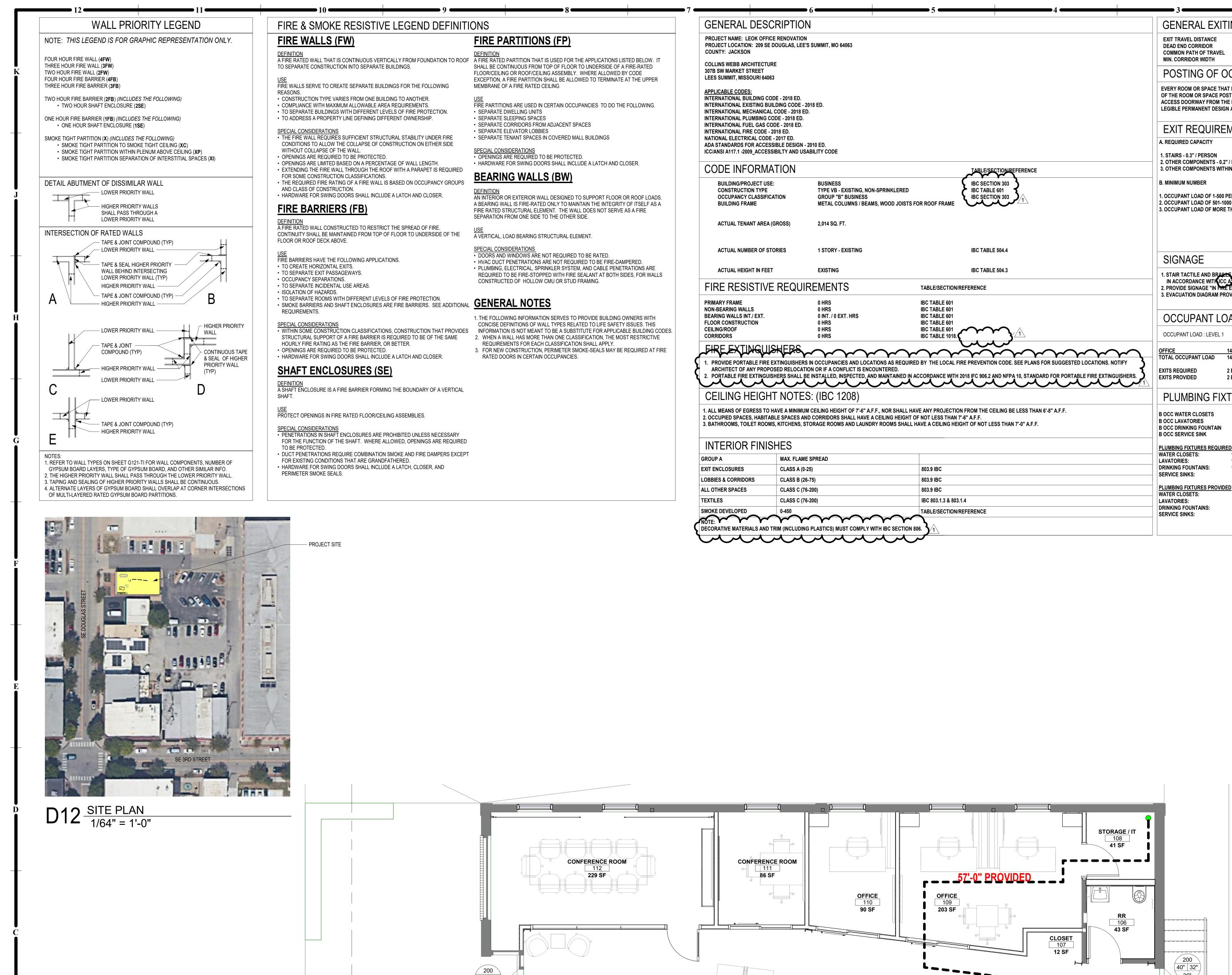
SHEET INDEX / GENERAL



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GENERAL EXITING REQUIREMENTS FIRE RESISTIVE LEGEND TABLE/SECTION/REFERENCE 250 FEET **SECTION 12.2.6.2** 20 FEET **SECTION 12.2.2.5.1.3** 20' FEET, OR 75' IF OCC. < 50 **SECTION 12.2.5.1.2** 44", OR 36" IF OCC. < 50 **SECTION 12.2.3.8** POSTING OF OCCUPANT LOAD EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. **EXIT REQUIREMENTS** TABLE/SECTION/REFERENCE **TABLE 7.3.3.1** 2. OTHER COMPONENTS - 0.2" / PERSON **TABLE 12.2.3.2** 3. OTHER COMPONENTS WITHIN THEATER ROOMS - 0.22" / PERSON 1. OCCUPANT LOAD OF 1-500 PERSONS - 2 EXITS PER STORY **SECTION 7.4.1.1** 2. OCCUPANT LOAD OF 501-1000 PERSONS - 3 EXITS PER STORY **SECTION 7.4.1.2** 3. OCCUPANT LOAD OF MORE THAN 1000 PERSONS - 4 EXITS PER STORY 1. STAIR TACTILE AND BRAYLLE SIGNAGE ON EACH FLOOR FOR EXIT STAIRWELL, FLOOR DISCHARGE, AND ROOF TOP ACCESS IN ACCORDANCE WITH ICC A117.1

2. PROVIDE SIGNAGE "IN PIRE EMERGENCY DO NOT USE ELEVATOR, USE EXIT STAIRS" IN ACCORDANCE WITH IBC (3002.3)

3. EVACUATION DIAGRAM PROVIDED IN ACCORDANCE WITH IBC 1001.2 OCCUPANT LOAD TABLE/SECTION/REFERENCE OFFICE 14 OCC 150 SF/OCC GROSS @2,014 SF (BUSINESS)
TOTAL OCCUPANT LOAD 14 OCCUPANTS IBC TABLE 1004.5 **IBC TABLE 1006.3.2** 2 EXITS PLUMBING FIXTURE REQUIREMENTS **IBC TABLE 2902.1** = 1/40 = 1/100 PLUMBING FIXTURES REQUIRED 14/40 = 1 REQUIRED 14/100 = 1 REQUIRED = 1 REQUIRED = 2 PROVIDED = 2 PROVIDED = 0 PROVIDED (BOTTLED WATER AND KITCHENETTE WITH SINK ARE PROVIDED) = 1 PROVIDED 90 MIN. DOOR

MAX. EXIT

DISTANCE

TRAVEL

MAX: 250' - 0"

PROVIDED: 57' - 0"

3FW 3FW 3FW 3 HOUR FIRE WALL 2FW 2FW 2FW 2FW 2 HOUR FIRE WALL 2FB 2FB 2FB 2FB 2 HOUR FIRE BARRIER 1FB 1FB 1FB 1FB 1 HOUR FIRE BARRIER 2S 2S 2S 2 2S 2 1 OUR SHAFT ENCLOSURE 1SE 1SE 1SE 1SE 1 HOUR SHAFT ENCLOSURE 1FP 1FP 1FP 1FP 1 HOUR FIRE PARTITION 0.5FP 0.5FP 0.5FP 0.5FP 0.5 HOUR FIRE PARTITION 0.5X 0.5X 0.5X 0.5X 0.5X 0.5 HOUR CORRIDOR PARTITION SB SB SB SB 1 HOUR SMOKE BARRIER 2BW 2BW 2BW 2BW 2 HOUR BEARING WALL BW 1BW 1BW 1BW 1 HOUR BEARING WALL NUMBER OF OCCUPANTS EXITING 200 40"

← CALCULATED EXIT EXIT WIDTH WIDTH REQ'D (IN.) PROVIDED (IN.) NUMBER OF OCCUPANTS EXITING 200 CALCULATED EXIT 40" 32" MIN. WIDTH OF **MEANS OF EGRESS** WIDTH REQ'D (IN.) COMPONENT (IN.) EXIT WIDTH -PROVIDED (IN.) FROM ROOM OR LEVEL X = CLEAR WIDTH OF OPENING IN INCHES FIRE RISER CABINET FIRE ALARM CONTROL PANEL FIRE DEPARTMENT CONNECTION KNOX BOX AREA OF RESCUE ASSISTANCE ACCESSIBLE EGRESS COMPONENT **← ← ←** EGRESS PATH INDICATES FIRE EXTINGUISHER CABINET(FE) LOCATION WITH 75'-0" RADIUS COVERAGI DOOR RATING LEGEND (REFER TO DOOR SCHEDULE 20 MIN. DOOR 45 MIN. DOOR

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CONSTRUCTION As Noted on Plans Review

08/15/2023

ARCHITECTURE, LLC **REVISION DATES:** 1 City Comments & 08.08.2023 VE Revisions

LIFE SAFETY PLANS AND PROJECT INFO.

A10 1ST FLOOR - LIFE SAFETY 1/4" = 1'-0"

1.NO SUBSTITUTIONS OF MATERIALS WITHOUT COMPLETION OF A SUBSTITUTION REQUEST FORM & APPROVAL OF SUBSTITUTION BY BOTH ARCHITECT & OWNER PROJECT MANAGER. FORM CAN BE REQUESTED FROM ARCHITECT. 2. A CONDENSED SET OF SPECIFICATIONS ARE PROVIDED FOR THE PROJECT. STRICT ADHEARANCE TO MANUFACTURER REQUIREMENTS AND INSTALLATION ARE REQUIRED TO BE FOLLOWED WITH SECTIONS PROVIDED WITHIN. IF REQUIRED THE ARCHITECT WILL ISSUE ADDITIONAL SECTIONS TO PROVIDE CLARITY TO PRODUCTS OR INSTALLATION REQUIREMENTS.

1. 1 SEE ADMINISTRATIVE SPECIFICATION FOR GENERAL REQUIREMENTS RELATED TO ADMINISTATION OF THIS

THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN THE PROJECT SHALL BE REQUIRED TO OBTAIN AND PAY FOR ALL NECESSARY LICENSES AS REQUIRED BY ANY LAW OR AGENCIES HAVING JURISDICTION (AHJ) OVER THE

THE GENERAL CONTRACTOR WILL PAY FOR ALL PERMITS REQUIRED BY ANY AGENCY HAVING JURISDICTION (AHJ) OVER THE PROJECT FOR ALL WORK TO BE PREFORMED BY THE GENERAL CONTRACTOR.

THE CONTRACTOR SHALL PAY THE NECESSARY FEES TO CONNECT TO EXISTING UTILITIES AT THE PROPERTY LINE OR IN ADJACENT STREETS AND RIGHT OF WAY AS SPECIFIED. NECESSARY, AND/OR INCLUDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PAY ALL UTILITY COSTS (BILLS) DURING CONSTRUCTION UNTIL OWNER TAKES POSSESSION OF THE FACILITY OR THE FACILITY IS CERTIFIED AS SUBSTANTIALLY COMPLETE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FINISHED SURFACES. PROTECTION FOR FINISHES SUCH AS DOORS, WALLS AND FLOORS SHOULD BE PROVIDED AS REQUIRED. ANY DAMAGES TO THESE AREAS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.

ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN DRAWINGS AND ANY DISCREPANCY OR CONFLICT BETWEEN ANY DRAWING AND ANY SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NOTWITHSTANDING, DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ARCHITECT'S AND/OWNERS ATTENTION AND CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ARCHITECT'S INTERPRETATION. THE GENERAL CONTRACTOR SHALL KEEP A COMPLETE SET OF DOCUMENTS ON THE PROJECT SITE AT ALL TIMES FOR REFERENCE DURING CONSTRUCTION. I. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILLS AND ATTENTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER

CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. . THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER ALL JOB SITE SAFETY PROCEDURES AND POLICIES. THE GENERAL CONTRACTOR SHALL HAVE A SAFETY COORDINATOR AND BE RESPONSIBLE TO HOLD REGULARLY SCHEDULED SAFETY TRAINING WITH ALL JOB SITE PERSONNEL, INCLUDING ALL SUB CONTRACTOR . NEITHER THE ARCHITECT'S OR THE OWNERS INSPECTION NOR FAILURE TO INSPECT SHALL RELIEVE THE CONTRACTOR OF ANY OBLIGATION HEREUNDER. IF ANY WORK FAILS TO CONFORM TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY REMEDY AND/OR REPLACE THE SAME AT THE CONTRACTOR'S EXPENSE. NO ACCEPTANCE OR PAYMENT BY THE OWNER OR ARCHITECT SHALL CONSTITUTE A WAIVER OF THE FOREGOING AND

NOTHING HEREIN SHALL EXCLUDE OR LIMIT ANY WARRANTIES IMPLIED BY LAW. 6. THE GENERAL CONTRACTOR SHALL SO CONDUCT ITS OPERATIONS AS NOT TO UNREASONABLY INTERFERE WITH TRAFFIC ON PUBLIC THOROUGHFARES ADJACENT OR NEAR TO THE PROJECT SITE. . DO NOT SCALE DRAWINGS.

EMPLOYEES BY PAYING WAGES, DIRECTING ACTIVITIES AND PERFORMING OTHER SIMILAR FUNCTIONS. THE GENERAL CONTRACTOR IS AN INDEPENDENT CONTRACTOR. FREE TO DETERMINE THE MANNER IN WHICH THE WORK IS 2. THE GENERAL CONTRACTOR SHALL PROVIDE, AND MAINTAIN IN GOOD WORKING ORDER, THE FOLLOWING ITEMS FOR USE BY THE PROJECT SUPERINTENDENT DAILY DURING THE ENTIRE DURATION OF THE PROJECT:

THE GENERAL CONTRACTOR REPRESENTS THAT IT POSSESSES THE SKILLS REQUIRED FOR THE WORK, ASSUMES THE

RESPONSIBILITIES OF AN EMPLOYER FOR PERFORMANCE OF THE WORK, AND ACTS AS AN EMPLOYER OF ONE OR MORE

A. LAPTOP WITH INTERNET ACCESS. B. DIGITAL CAMERA WITH 'DATE STAMP' CAPABILITY AND WITH PROPER CABLES TO ATTACH TO LAPTOP. C. EMAIL ACCESS THROUGH THE LAPTOP.

D. A PRINTER/SCANNER/FAX MACHINE WITH PROPER CABLES TO ATTACH TO LAPTOP.

F. PROJECT INTERNET CLOUD BASED SITE FOR MANAGEMENT OF PROJECT INFORMATION. SITE WILL BE USED FOR SUBMITTAL OF SHOP DRAWINGS, RFI'S & PHOTOS. SITE SHALL BE PROCORE OR EQUAL FUNCTIONALITY. I. THE GENERAL CONTRACTOR SHALL HAVE A CONSTRUCTION SUPERINTENDENT ASSIGNED TO THIS PROJECT, AND THIS SUPERINTENDENT SHALL BE ON SITE EVERY DAY THERE IS ANY CONSTRUCTION ON THIS PROJECT. THE SUPERINTENDENT SHALL BE REACHABLE BY PHONE DURING NORMAL BUSINESS HOURS. ONCE ASSIGNED, THE SUPERINTENDENT SHALL NOT BE REMOVED OR REPLACED WITHOUT WRITTEN APPROVAL FROM OWNER & ARCHITECT, UNLESS SPECIFICALLY REQUESTED TO BE REPLACED BY OWNER.

. THE SUPERINTENDENT WILL BE REQUIRED TO PROVIDE PHOTOGRAPHS (VIA EMAIL USING A DIGITAL CAMERA) TO THE OWNER & ARCHITECT EACH FRIDAY BY NOON CST, SHOWING THE PROGRESS OF CONSTRUCTION. THE GENERAL CONTRACTOR IS ENCOURAGED TO TAKE PHOTOS SEVERAL TIMES EACH WEEK TO HELP MAINTAIN PROOF OF CONSTRUCTION PROGRESS, RECORD UNCOVERED CONDITIONS, RECORD CONDITION AND AMOUNTS OF VENDOR GOODS UPON RECEIPT, AND RECORD CONSTRUCTION THAT VARIES FROM THE CD'S (AS PART OF THE AS-BUILTS). ALL PHOTOS WILL HAVE A 'DATE STAMP'.

. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OVERSEE CONSTRUCTION OF THE PROJECT,

CONTINUALLY INSPECTING THE WORK, MATERIALS, AND WORKMANSHIP PROVIDED BY ALL OF HIS TRADESMEN, SUBCONTRACTORS, AND SUPPLIERS. EXCELLENCE IN QUALITY OF CONSTRUCTION CAN ONLY BE ACHIEVED IF THE CONTRACTOR ENFORCES HIGH STANDARDS OF ACCEPTABILITY. THE GENERAL CONTRACTOR CANNOT DELEGATE HIS RESPONSIBILITY TO THE SUBCONTRACTORS, BUT MUST CONTINUALLY MONITOR THE WORK OF EACH TRADE ON THE PROJECT. 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE AND SCHEDULE ALL AGENCIES HAVING JURISDICTION (AHJ) INSPECTIONS NECESSARY TO OBTAIN THE CERTIFICATE OF OCCUPANCY (CERTIFICATE OF COMPLIANCE). PRIOR TO THE DATE OF THE AGENCY INSPECTION, THE GENERAL CONTRACTOR SHOULD INSPECT THE PROJECT TO INSURE THAT CONSTRUCTION COMPLIES WITH THE AGENCY REQUIREMENTS. SCHEDULING FINAL INSPECTIONS WITH AGENCY REPRESENTATIVES WHEN THE PROJECT IS NOT COMPLETE MUST BE AVOIDED. COPIES OF FINAL INSPECTIONS MUST BE PROVIDED TO OWNER & ARCHITECT AS THEY ARE AVAILABLE.

3. PRIOR TO REQUESTING THE SUBSTANTIAL COMPLETION INSPECTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OWN PRE-SUBSTANTIAL COMPLETION INSPECTION OF THE CONSTRUCTION FOR QUALITY OF CONSTRUCTION AND COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. 4. THE FOLLOWING PEOPLE SHOULD BE IN ATTENDANCE FOR THE SUBSTANTIAL COMPLETION INSPECTION: A. GENERAL CONTRACTOR

B. GENERAL CONTRACTOR SUPERINTENDENT C. MECHANICAL CONTRACTOR

D. ELECTRICAL CONTRACTOR E. PLUMBING CONTRACTOR F. PAINTING CONTRACTOR H. FLOORING CONTRACTOR

SUBCONTRACTORS.

5. ITEMS TO BE SUBMITTED AS A PREREQUISITE TO THE REQUEST FOR THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND OWNER / ARCHITECT OBSERVATION OF ITEMS TO BE COMPLETED AND CORRECTED. A. GENERAL CONTRACTOR'S PUNCH LISTS B. HVAC TEST AND BALANCE REPORT

C. SPRINKLER SYSTEM ACCEPTANCE INSPECTION REPORT D. COPY OF VIDEO OF COMPLETED SEWER SYSTEM

THE REVIEW TEAM SHOULD PROCEED IN AN ORGANIZED MANNER THROUGHOUT THE BUILDING INSPECTING EACH SPACE OR ROOM. THE PUNCH LIST GENERATED BY THE SUBSTANTIAL COMPLETION INSPECTION TOUR IS TO BE PREPARED BY THE CONTRACTOR. ALONG WITH THE PUNCH LIST, THE ARCHITECT SHALL PREPARE THE "CERTIFICATE OF SUBSTANTIAL INMMEDIATELY AFTER RECEIPT OF THE PUNCH LIST, THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE EXPECTED TO BEGIN CORRECTION OF THE OUTSTANDING ITEMS. AFTER COMPLETION OF PUNCHLIST, THE CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT IN WRITTING THAT FULL LIST OF ITENMS TO BE COMPLETED AND OR CORRECT IS

THE OWNER REQUIRES THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAINTAIN AN ACCURATE, CURRENT SET OF RECORD DOCUMENTS (AS-BUILTS) AS CONSTRUCTION PROGRESSES. ALL PERTINENT INFORMATION RELATING TO THE PROJECT MUST BE TIMELY MAINTAINED ON THE AS-BUILTS. THE AS-BUILTS MUST BE MAINTAINED ON-SITE IN THE GENERAL CONTRACTOR'S OFFICE AND WILL NOT BE USED FOR ANY OTHER PURPOSE. SINCE THE OWNER WILL OWN AND OPERATE THE FACILITY, IT IS IMPERATIVE THAT ALL PARTIES MAINTAIN ACCURATE INFORMATION REGARDING THE ACTUAL CONSTRUCTION OF THE PROJECT. ALL DEVIATIONS FROM THE CONTRACT SET OF DRAWINGS MUST BE NOTED ON THE AS-BUILTS IN RED WITH CLOUDS FOR CLEAR IDENTIFICATION. THE OWNER WILL REVIEW THE AS-BUILTS FOR ACCURACY AND COMPLETENESS MONTHLY, DURING THE PAYMENT APPLICATION REVIEW PROCESS. FAILURE TO POST CHANGES TO THE PROJECT ON THE AS-BUILTS AS IDENTIFIED DURING THE ON-SITE MONTHLY REVIEW WILL BE CAUSE TO SUSPEND PAYMENT UNTIL RECTIFIED.

. WITHIN THIRTY (30) CALENDAR DAYS AFTER THE FINAL PROJECT SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL COMPILE ALL CLOSE-OUT DOCUMENTS AND SUBMIT THEM TO THE OWNER FOR REVIEW. IF THE CONTRACTOR FAILS TO COMPLETE ITS REQUIREMENTS WITHIN THIS TIMELINE NOTED ABOVE THE CONTRACTOR MAY BE

IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENFORCE THE TIMELY POSTING OF AS-BUILT CHANGES WITH THE

SUBJECT TO ADDITONAL ADMINISTATION FEES.

1. THE CATEGORIES LISTED BELOW SHOULD BE SUBMITTED AT THE SAME TIME. A. A DISK WITH ALL PHOTOS TAKEN DURING CONSTRUCTION. B. CHANGE ORDERS AND ALL ADDENDA ATTACHED AND POSTED TO THE AS-BUILT DRAWINGS. C. AS-BUILT DRAWINGS: ONE HARD COPY TO REMAIN ON SITE AND IN PLAN TUBE; ONE ELECTRONIC COPY TO BE SENT WITH CLOSE-OUT PAPERWORK.

D. MATERIALS SELECTION DATA - PROVIDE ALL APPROVED SUBMITTALS. E. OPERATION AND MAINTENANCE MANUALS (O&M) - PROVIDE O&M MANUALS BOXED AND BOUND. THIS ITEM IS OF SIGNIFICANT IMPORTANCE TO MSI FUTURE MAINTENANCE ACTIVITIES.

F. ALL HVAC TEST AND BALANCE REPORTS. H. RELEASE OF LIEN (AIA FORM 706A), PAYMENT OF DEBT (AIA FORM 706).

I. WARRANTIES, CERTIFICATES, AFFIDAVITS: 2. ALL INFORMATION INCLUDED IN THIS CATEGORY WILL BE FURNISHED IN ONE (1) COPY AND BOUND IN A STURDY THREE-RING BINDER WITH A LABEL ON THE OUTSIDE READING "GENERAL CLOSE-OUT DOCUMENTS" TO INCLUDE AN INDEX OF THE CONTENTS, ALL AIA DOCUMENTS WILL BE ORIGINAL (WITH RED LETTERING ON THE BOTTOM OF THE FORM) AND NOTARIZED. IF THE ELECTRONIC VERSION IS USED A COPY WITH ORIGINAL SIGNATURES WILL BE SUBMITTED. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR WILL HAVE SEPARATE TABS IDENTIFYING EACH BY NAME. THE GENERAL CONTRACTOR WILL LIST EACH SUBCONTRACTOR ALPHABETICALLY AND WILL CHECK TO INSURE THAT A "RELEASE OF LIEN" - AIA FORM G706A AND A "PAYMENT OF DEBT-AIA FORM G706 IS INCLUDED FOR HIMSELF AND EACH SUBCONTRACTOR. THE GENERAL CONTRACTOR WILL INCLUDE A "CONSENT OF SURETY" - AIA FORM G707. IN ADDITION, THE GENERAL CONTRACTOR WILL INCLUDE BEHIND HIS TAB THE FOLLOWING INFORMATION: A. A LIST OF NAMES, BUISNESS ADDRESSES, PHONE NUMBERS AND EMAIL ADRESSES FOR THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR.

B. AN ANNOTATED COPY OF THE SUBSTANTIAL COMPLETION PUNCH LIST INDICATING ACTION TAKEN ON EACH ITEM. C. WARRANTIES, CERTIFICATES AND AFFIDAVITS SHALL BE INCLUDED FOR ANY EQUIPMENT, MATERIALS OR SYSTEMS. COMBINED WITH ALL OF THE ABOVE INFORMATION AND PLACED BEHIND THE TAB OF THE CONTRACTOR THAT

<u>DIVISION 4 - MASONRY</u> 04 0500 - MASONRY RESTORATION & TUCKPOINTING

1. AMERICAN CONCRETE INSTITUTE (ACI):

A. ACI 530.1-02 - SPECIFICATION FOR MASONRY STRUCTURES. 2. ASTM INTERNATIONAL (ASTM): A. ASTM C 144 - STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR. B. ASTM C 150 - STANDARD SPECIFICATION FOR PORTLAND CEMENT.

C. ASTM C 207 - STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY PURPOSES. D. ASTM C 260 - STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE. E. ASTM C 270 - STANDARD SPECIFICATION FOR MORTAR FOR UNIT MASONRY. F. ASTM C 595 - STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS.

G. ASTM C 780 - STANDARD TEST METHOD FOR PRECONSTRUCTION AND CONSTRUCTION EVALUATION OF MORTARS FOR PLAIN AND REINFORCED MASONRY. H. ASTM C 979 - STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRALLY COLORED CONCRETE. I. ASTM C 1093 - STANDARD PRACTICE FOR ACCREDITATION OF TESTING AGENCIES FOR UNIT MASONRY.

J. ASTM C 1157 - STANDARD PERFORMANCE SPECIFICATION FOR HYDRAULIC CEMENT. K. ASTM C 1314 - STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF MASONRY PRISMS. L. ASTM C 1586 - STANDARD GUIDE FOR QUALITY ASSURANCE OF MORTARS. M. ASTM C 1714 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR UNIT MASONRY.

N. ASTM E 329 - SPECIFICATION FOR MINIMUM REQUIREMENTS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION. O. ASTM E 514 - STANDARD TEST METHOD FOR WATER PENETRATION AND LEAKAGE THROUGH MASONRY. 3. INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMIAC):

1. IMIAC - INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMIAC): RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION. 2. IMIAC - INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMIAC): RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT WEATHER MASONRY CONSTRUCTION. 4. THE BRICK INDUSTRY ASSOCIATION (BIA): 1. BIA TECHNICAL NOTE 20 - CLEANING BRICK.

1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.

2. QUALITY ASSURANCE/CONTROL SUBMITTALS: A. SUBMIT MANUFACTURER'S CERTIFICATES THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS. B. SUBMIT TEST RESULTS PREPARED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.

1. MANUFACTURER QUALIFICATIONS: FIRM SPECIALIZING IN MANUFACTURE OF MASONRY INSTALLATION MATERIALS, INCLUDING MORTARS, WITH MINIMUM 10 YEARS EXPERIENCE. 2. QUALITY ASSURANCE/CONTROL TESTING: TEST REPORTS PREPARED BY A QUALIFIED INDEPENDENT LABORATORY INDICATING COMPLIANCE WITH THE FOLLOWING PERFORMANCE REQUIREMENTS: 3. C.PRE-INSTALLATION MEETING: AT LEAST ONE WEEKS PRIOR TO COMMENCING MASONRY WORK CONDUCT A

MEETING AT THE PROJECT SITE TO DISCUSS CONTRACT REQUIREMENTS AND JOB CONDITIONS: REQUIRE THE ATTENDANCE OF MASONRY CONTRACTOR, AND INSTALLERS OF RELATED MATERIALS; NOTIFY ARCHITECT IN ADVANCE OF MEETING.REVIEW DETAILING AND SEQUENCE OF WORK TO BE PERFORMED. 4. STORAGE AND PROTECTION: CEMENTITIOUS MATERIALS SHALL BE MANUFACTURED AND STORED OFF THE GROUND, UNDER COVER AND SHALL BE KEPT DRY IN ACCORDANCE WITH ASTM C1714.

1. MAINTAIN ENVIRONMENTAL CONDITIONS AND PROTECT WORK DURING AND AFTER INSTALLATION TO COMPLY WITH REFERENCED STANDARDS AND MANUFACTURER'S PRINTED RECOMMENDATIONS. 2. DO NOT BUILD OR APPLY MORTAR PRODUCTS ON FROZEN SUBSTRATES. 1. REMOVE AND REPLACE MORTAR DAMAGED BY FROST OR BY FREEZING CONDITIONS.

3. VENT TEMPORARY HEATERS TO EXTERIOR TO PREVENT DAMAGE TO MASONRY WORK FROM CARBON DIOXIDE BUILD-UP.

1. BASIS OF DESIGN: SPEC MIX®, INC. WEB: WWW.SPECMIX.COM" WWW.SPECMIX.COM 2. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SUBSTITUTION

PROCEDURES 3. OBTAIN PRODUCTS FROM A SINGLE MANUFACTURER. 4. DESIGN AND PERFORMANCE REQUIREMENTS: PROVIDE MORTAR MIXES THAT HAVE BEEN SELECTED, MANUFACTURED, MIXED AND INSTALLED TO COMPLY WITH THE FOLLOWING: A. ASTM C 270.

B. ASTM C 1714. A. TUCKPOINT MORTAR: SPEC MIX TUCKPOINT MORTAR . APPLICABLE STANDARDS: ASTM C 144. ASTM C 150. ASTM C 207, ASTM C 270 FOR TUCKPOINT MORTAR, ASTM C 595, ASTM C 780, ASTM C 1093, ASTM C 1157, ASTM C 1314, ASTM C 1586, ASTM C 1714, ACI 530.1, IMIAC.

EXAMINE SURFACES TO RECEIVE MASONRY WORK AND CONDITIONS UNDER WHICH MASONRY WILL BE

INSTALLED. DO NOT PROCEED WITH MASONRY WORK UNTIL SURFACES AND CONDITIONS COMPLY WITH REQUIREMENTS INDICATED IN REFERENCED MASONRY INSTALLATION STANDARD AND MANUFACTURER'S

1. REMOVAL OF EXISTING MORTAR A. REMOVAL OF EXISTING MORTAR: CUT OUT EXISTING MORTAR JOINTS (BOTH BED AND HEAD JOINTS) AND REMOVE BY MEANS OF A TOOTHING CHISEL OR A SPECIAL POINTER'S GRINDER, TO A UNIFORM DEPTH OF TO 3/4-INCH (19 MM), OR UNTIL SOUND MORTAR IS REACHED.

1. TAKE CARE TO NOT DAMAGE EDGES OF EXISTING MASONRY UNITS TO REMAIN. B. REMOVE DUST AND DEBRIS FROM THE JOINTS BY BRUSHING, BLOWING WITH AIR OR RINSING WITH WATER. DO NOT RINSE WHEN TEMPERATURE IS BELOW FREEZING.

A. REMOVE DAMAGED, SPALLED, LOOSE OR DETERIORATED MASONRY UNITS. CAREFULLY REMOVE ENTIRE UNITS FROM JOINT TO JOINT, WITHOUT DAMAGING SURROUNDING MASONRY, IN A MANNER THAT PERMITS

B. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA. MAINTAIN FLASHING, REINFORCEMENT, LINTELS, AND ADJOINING CONSTRUCTION IN AN UNDAMAGED CONDITION. C. CLEAN MASONRY UNITS SURROUNDING REMOVAL AREAS BY REMOVING MORTAR, DUST, AND LOOSE PARTICLES IN PREPARATION FOR REPLACEMENT. D. REPLACE REMOVED UNITS WITH SALVAGED OR NEW UNITS THAT MATCH EXISTING SIZE AND TEXTURE. DO NOT

USE BROKEN UNITS UNLESS THEY CAN BE CUT TO USABLE SIZE. E. INSTALL REPLACEMENT UNITS INTO BONDING AND COURSING PATTERN OF EXISTING UNITS. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES. UNITS MUST BE TOOTHED IN OR COURSING SHALL MATCH SURROUNDING IN PLACE WORK. F. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS.

G. LAY REPLACEMENT UNITS WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE.

1. AS RECOMMENDED BY MANUFACTURER. 2. RETEMPERING:

RETEMPER MORTAR AS RECOMMENDED BY MANUFACTURER

1. INSTALL MORTAR IN ACCORDANCE WITH ACI/ASCE-530.1: 2. IMMEDIATELY PRIOR TO APPLICATION OF MORTAR, DAMPEN JOINTS TO BE TUCK POINTED. PRIOR TO APPLICATION OF POINTING MORTAR, ALLOW MASONRY UNITS TO ABSORB SURFACE WATER.

3. TIGHTLY PACK MORTAR INTO JOINTS IN THIN LAYERS, APPROXIMATELY 1/4-INCH (6 MM) THICK MAXIMUM. 4. ALLOW LAYER TO BECOME "THUMBPRINT HARD" BEFORE APPLYING NEXT LAYER. 5. PACK FINAL LAYER FLUSH WITH SURFACES OF MASONRY UNITS. WHEN MORTAR BECOMES "THUMBPRINT HARD", 6. HAIRLINE CRACKING WITHIN THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. COMPLETELY REMOVE SUCH MORTAR AND REPOINT.

7. TOOL JOINTS IN PATCH WORK WITH A JOINTING TOOL TO MATCH THE EXISTING SURROUNDING JOINTS. A. COMPLY WITH CLEANING PROCEDURES AND RECOMMENDATIONS OF THE MANUFACTURERS OF BOTH THE CLEANING SOLUTION AND THE UNIT MASONRY. B. REMOVE EFFLORESCENCE FROM MASONRY WALL EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, NCMA TEK BULLETIN #8-3A AND/OR BIA TECHNICAL NOTE 20 -CLEANING BRICK. C. REMOVE DIRT OR STAINS FROM MASONRY WALLS EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, NCMA TEK BULLETIN #8-2A AND/OR BIA TECHNICAL NOTE 20 -CLEANING BRICK.

D. COMPLY WITH APPLICABLE ENVIRONMENTAL LAWS AND RESTRICTIONS. AFTER MORTAR HAS FULLY HARDENED, THOROUGHLY CLEAN EXPOSED MASONRY SURFACES OF EXCESS MORTAR AND FOREIGN MATTER; USE WOOD SCRAPERS, STIFF-NYLON OR -FIBER BRUSHES, AND CLEAN WATER, SPRAY APPLIED AT LOW PRESSURE. 1. DO NOT USE METAL SCRAPERS OR BRUSHES. 2. DO NOT USE ACIDIC OR ALKALINE CLEANERS.

1. PROTECTION: PROTECT NEWLY POINTED JOINTS FROM WEATHER AND ELEMENTS AS RECOMMENDED BY MANUFACTURER AND INDUSTRY STANDARDS, UNTIL POINTED JOINTS ARE SUFFICIENTLY HARD ENOUGH TO PREVENT DAMAGE. 2. PROTECT INSTALLED WORK FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION ACTIVITY ON THE SITE.

<u>DIVISION 5 - METALS</u> 05 6000- STRUCTURAL METAL STUDS AND TRACK

BUILDING CODES.

THIS SECTION IS A DELEGATED DESIGN SUBMITTAL. CONTRACTOR SHALL ENGAGE A STRUCUTRAL ENGINEER LICENSED IN THE JURISDICTION WHRE THIS PROJECT IS LOCATED. ALL FEES SUBJECT OF THIS SERVICE WILL BE

A. <u>SUBMITTALS</u>: PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING: 1. SHOWING PLANS, SECTIONS, ELEVATIONS, LAYOUTS, PROFILES AND PRODUCT COMPONENT LOCATIONS, INCLUDING ANCHORAGE, BRACING, FASTENERS, ACCESSORIES AND FINISHES. 2. INDICATE COMPONENT DETAILS, FRAMED OPENINGS, BEARING, ANCHORAGE, LOADING, WELDS, TYPE AND LOCATION OF FASTENERS, AND ACCESSORIES.

3. INDICATE METHOD FOR SECURING STUDS AND OTHER COMPONENTS TO TRACKS AND FOR FRAMING 4. SUBMIT CALCULATIONS FOR LOADINGS AND STRESSES UNDER PROFESSIONAL ENGINEER'S SEAL REGISTERED

1. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM FIVE YEARS DOCUMENTED EXPERIENCE. 2. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM 3 YEARS DOCUMENTED EXPERIENCE 3. DESIGN STRUCTURAL ELEMENTS UNDER DIRECT SUPERVISION OF PROFESSIONAL ENGINEER EXPERIENCED IN

DESIGN OF THIS WORK AND REGISTERED IN THE STATE OF THE PROJECT. 1. FOLLOW MANUFACTURER INSTALLATION GUIDLINES. INSTALLATION SHALL BE COMPLIANT WITH APPLICABLE 05 7000 - DECORATIVE METAL

PRODUCT DATA AND SHOP DRAWINGS WITH PLANS ELEVATIONS AND SECTIONS INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS. INDICATE RAILING SYSTEM ELEVATIONS AND SECTIONS, DETAILS OF PROFILE, DIMENSIONS. SIZES, CONNECTION ATTACHMENTS, ANCHORAGE, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES INDICATE ANCHOR AND JOINT LOCATIONS, BRAZED CONNECTIONS, TRANSITIONS, AND TERMINATIONS. 1. DELEGATED-DESIGN SUBMITTAL: FOR HANDRAIL AND GUARDRAIL SYSTEMS, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

06 4100 - ARCHITECTURAL WOOD CASEWORK

UNLESS NOTED OTHERWISE.

EXPOSED LOCATIONS.

MATCH ADJACENT SURFACE.

JOINTING DETAILS, AND ACCESSORIES.

1. SCALE OF DRAWINGS: 1-1/2 INCH TO 1 FOOT, MINIMUM.

SECTION WITH MINIMUM FIVE YEARS OF DOCUMENTED EXPERIENCE.

2. ADHESIVE: TYPE RECOMMENDED BY FABRICATOR TO SUIT APPLICATION.

3. PLASTIC LAMINATE FACED CABINETS: CUSTOM GRADE.

3. FASTENERS: SIZE AND TYPE TO SUIT APPLICATION.

5. CONCEALED JOINT FASTENERS: THREADED STEEL.

FINISH, FOR NOMINAL 1 INCH SPACING ADJUSTMENTS.

2. VERIFY ADEQUACY OF BACKING AND SUPPORT FRAMING.

USE ADDITIONAL OVERLAY TRIM FOR THIS PURPOSE.

1. PRODUCT DATA: PROVIDE DATA FOR MEMBRANE.

AND UNTIL LIQUID OR MASTIC ACCESSORIES HAVE CURED.

1. W.R. MEADOWS, INC; MEL-ROL: WWW.WRMEADOWS.COM

6. SURFACE CONDITIONER: COMPATIBLE WITH MEMBRANE.

WITH SUBSTRATES AND WATERPROOFING MATERIALS.

BACKFILLING AND CONSTRUCTION TRAFFIC.

INSTRUCTIONS; VACUUM SUBSTRATE CLEAN.

AND WATERPROOFING MANUFACTURERS.

MECHANICAL ROLLER TO PROVIDE FULL CONTACT BOND.

INSTALL COUNTERFLASHING OVER EXPOSED EDGES.

IS PROVEN WATERTIGHT, DRAIN WATER AND REMOVE DAM.

A. <u>SUBMITTALS</u>: PRODUCT DATA FOR EACH TYPE OF INSULATION SPECIFIED.

(WM) APPLICABLE REQUIREMENTS.

INSTALLATION PROCEDURES

1. FLAME SPREAD INDEX: 25 OR LESS

3. BOARD SIZE: 48 INCH BY 96 INCH.

4. BOARD THICKNESS: 1-1/2 INCH.

INDICATED IN DRAWINGS.

TO SUCCESSFUL INSTALLATION.

07 2100 - THERMAL INSULATION

7. ADHESIVES: AS RECOMMENDED BY MEMBRANE MANUFACTURER.

3. SEAMING MATERIALS: AS RECOMMENDED BY MEMBRANE MANUFACTURER.

4. MEMBRANE SEALANT: AS RECOMMENDED BY MEMBRANE MANUFACTURER.

5. TERMINATION BARS: ALUMINUM; COMPATIBLE WITH MEMBRANE AND ADHESIVES.

<u> DIVISION 7 - THERMAL AND MOISTURE PROTECTION</u>

INTERFACE WITH OTHER MATERIALS.

B. <u>SURFACE BURNING CHARACTERISTICS</u>:

1. FLAME SPREAD INDEX: 25 OR LESS

07 1300 - SHEET WATERPROOFING

36 INCH. MINIMUM.

9. DRAWER SLIDES: TYPE: EXTENSION TYPES AS INDICATED.

BEFORE BEGINNING INSTALLATION AND FOR DURATION OF PROJECT.

2. WOOD VENEER FACED CABINET: CONCEALED SURFACES: MANUFACTURER'S OPTION.

1. LAMINATES AS INDICATED IN SCHEDULES. COMPLY WITH MANUFACTURER INSTRUCTIONS.

2. PROVIDE THE INFORMATION REQUIRED BY AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS).

3. SAMPLES: SUBMIT ACTUAL SAMPLES OF ARCHITECTURAL CABINET CONSTRUCTION, MINIMUM 12 INCHES

SQUARE, ILLUSTRATING PROPOSED CABINET, COUNTERTOP, AND SHELF UNIT SUBSTRATE AND FINISH.

. FABRICATOR QUALIFICATIONS: COMPANY SPECIALIZING IN FABRICATING THE PRODUCTS SPECIFIED IN THIS

). <u>CABINETS</u>: 1. QUALITY STANDARD: CUSTOM GRADE, IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS),

4. BOLTS, NUTS, WASHERS, LAGS, PINS, AND SCREWS: OF SIZE AND TYPE TO SUIT APPLICATION; GALVANIZED OR

CHROME-PLATED FINISH IN CONCEALED LOCATIONS AND STAINLESS STEEL OR CHROME-PLATED FINISH IN

6. GROMMETS: STANDARD PLASTIC, PAINTED METAL, OR RUBBER GROMMETS FOR CUT-OUTS, IN COLOR TO

STANDARDS OR MULTIPLE HOLES FOR PIN SUPPORTS AND COORDINATED SELF RESTS, POLISHED CHROME

7. HARDWARE: BHMA A156.9, TYPES AS RECOMMENDED BY FABRICATOR FOR QUALITY GRADE SPECIFIED

8. ADJUSTABLE SHELF SUPPORTS: STANDARD SIDE-MOUNTED SYSTEM USING RECESSED METAL SHELF

10. HINGES: EUROPEAN STYLE CONCEALED SELF-CLOSING TYPE, [<>] STEEL WITH POLISHED FINISH. 11. SOFT CLOSE ADAPTER: CONCEALED, FRAME-MOUNTED, SCREW-ADJUSTABLE DAMPER; STEEL WITH

1. INSTALL NO INTERIOR FINISH CARPENTRY OR MILLWORK UNTIL SPACES ARE ENCLOSED, DRY, AND

4. SET AND SECURE CUSTOM CABINETS IN PLACE, ASSURING THAT THEY ARE RIGID, PLUMB, AND LEVEL.

7.CAREFULLY SCRIBE CASEWORK ABUTTING OTHER COMPONENTS, WITH MAXIMUM GAPS OF 1/32 INCH. DO NOT

2.PROVIDE SHOP DRAWINGS: INDICATE SPECIAL JOINT OR TERMINATION CONDITIONS AND CONDITIONS OF

2. SMOKE DEVELOPED INDEX: 50 OR LESS IN EXPOSED AREAS AND PLENUMS; 450 OR LESS WHERE CONCEALED.

1. MAINTAIN AMBIENT TEMPERATURES ABOVE 40 DEGREES F FOR 24 HOURS BEFORE AND DURING APPLICATION

1. CONTRACTOR SHALL CORRECT DEFECTIVE WORK WITHIN A FIVE YEAR PERIOD AFTER DATE OF SUBSTANTIAL

1. SELF-ADHERED MODIFIED BITUMINOUS SHEET MEMBRANE: LOCATION: LOCATIONS AS IDENTIFIED IN

8. THINNER AND CLEANER: AS RECOMMENDED BY ADHESIVE MANUFACTURER, COMPATIBLE WITH SHEET

1. SEALANT FOR CRACKS AND JOINTS IN SUBSTRATES: RESILIENT ELASTOMERIC JOINT SEALANT COMPATIBLE

. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL

2. PROTECTION BOARD: PROVIDE TYPE CAPABLE OF PREVENTING DAMAGE TO WATERPROOFING DUE TO

TO SUCCESSFUL INSTALLATION. DO NOT APPLY WATERPROOFING TO SURFACES UNACCEPTABLE TO

2. CLEAN AND PREPARE SURFACES TO RECEIVE WATERPROOFING IN ACCORDANCE WITH MANUFACTURER'S

3. FILL NON-MOVING JOINTS AND CRACKS WITH A FILLER COMPATIBLE WITH WATERPROOFING MATERIALS.SEAL

MOVING CRACKS WITH SEALANT AND NON-RIGID FILLER, USING PROCEDURES RECOMMENDED BY SEALANT

4. INSTALL MEMBRANE WATERPROOFING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NRCA

5. SELF-ADHERING MEMBRANE: REMOVE RELEASE PAPER LAYER, AND ROLL OUT ONTO SUBSTRATE WITH A

7. REINFORCE MEMBRANE WITH MULTIPLE THICKNESS OF MEMBRANE MATERIAL OVER JOINTS, WHETHER JOINTS

8. WEATHER LAP JOINTS ON SLOPED SUBSTRATE IN DIRECTION OF DRAINAGE, AND SEAL JOINTS AND SEAMS.

10. SEAL MEMBRANE AND FLASHINGS TO ADJOINING SURFACES. INSTALL TERMINATION BAR ALONG EDGES.

11. INSTALLATION OF DRAINAGE PANEL AND PROTECTION BOARD. INSTALLER TO FOLLOW MANUFACTURERS

9. FLEXIBLE FLASHINGS: SEAL ITEMS WATERTIGHT THAT PENETRATE THROUGH WATERPROOFING MEMBRANE

12. UPON COMPLETION OF HORIZONTAL MEMBRANE INSTALLATION, DAM INSTALLATION AREA IN PREPARATION FOR

MATERIALS AS DIRECTED BY ARCHITECT; REPEAT FLOOD TEST, AND REPAIR DAMAGE TO BUILDING. WHEN AREA

FLOOD TESTING. FLOOD TO MINIMUM DEPTH OF 1 INCH WITH CLEAN WATER, AND AFTER 48 HOURS INSPECT

FOR LEAKS. IF LEAKING IS FOUND, REMOVE WATER, REPAIR LEAKING AREAS WITH NEW WATERPROOFING

2. SMOKE DEVELOPED INDEX: 50 OR LESS IN EXPOSED AREAS AND PLENUMS; 450 OR LESS WHERE CONCEALED.

1. MINERAL FIBER OR GLASS FIBER BLANKET INSULATION: TYPE I. UNFACED WHERE SPECIFIED WITH SEPARATE

BATT OR BLANKET, COMPLYING WITH ASTM C665; FRICTION FIT.SEE DRAWINGS FOR SPECIFIC TYPES.

C. COMBUSTIBILITY: NON-COMBUSTIBLE, WHEN TESTED IN ACCORDANCE WITH ASTM E136, EXCEPT FOR

2. BOARD INSULATION: BOARD INSULATION AT CAVITY WALL CONSTRUCTION, EXTERIOR WALL BEHIND [RATED

1. FLAME SPREAD INDEX (FSI): CLASS A - 0 TO 25, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

2. SMOKE DEVELOPED INDEX (SDI): 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

6. TYPE AND WATER ABSORPTION: TYPE XI, 4.0 PERCENT BY VOLUME, MAXIMUM, BY TOTAL IMMERSION.

1. VAPOR RETARDER: 6 MIL POLYETHYLENE AT CONCEALED AREAS (FLAME SPREAD/SMOKE DEVELOPED: 25/450),

FOIL/SCRIM AT PLENUMS AND EXPOSED AREAS (FLAME SPREAD/SMOKE DEVELOPED: 25/50). PROVIDE WHERE

1. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL

2. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO PRODUCE R-VALUES WHERE

3. INSTALL IN EXTERIOR WALL AND CEILING SPACES WITHOUT GAPS OR VOIDS. DO NOT COMPRESS INSULATION.

SECURE IN PLACE WITH ADHESIVES OR OTHER ANCHORAGE AS RECOMMENDED BY MANUFACTURER. LOCATE

5. EXTEND VAPOR RETARDER TO EXTREMITIES OF AREAS TO BE PROTECTED FROM VAPOR TRANSMISSION.

SEAMS AT FRAMING MEMBERS, OVERLAP AND SEAL WITH SUITABLE TAPE (DUCT TAPE IS NOT SUITABLE).

INDICATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.

4. TRIM INSULATION NEATLY TO FIT SPACES. INSULATE MISCELLANEOUS GAPS AND VOIDS.

6. DO NOT PERMIT INSTALLED INSULATION TO BE DAMAGED PRIOR TO ITS CONCEALMENT.

2. TAPE: REINFORCED POLYETHYLENE FILM WITH ACRYLIC PRESSURE SENSITIVE ADHESIVE. APPLICATION:

AND ACOUSTIC CONDITIONS] WALL FINISH, AND INTERIOR WALL WITH FACER PROVIDING EXPOSED FINISH.

A. FLAME SPREAD INDEX: 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

A. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLIES WITH ASTM C578.

5. TYPE AND COMPRESSIVE RESISTANCE: TYPE XI, 5 PSI (35 KPA), MINIMUM.

SEALING OF INTERIOR CIRCULAR PENETRATIONS, SUCH AS PIPES OR CABLES.

B. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

VAPOR BARRIER.FIBERS MANUFACTURED FROM GLASS, SLAG WOOL, OR ROCK WOOL. FLEXIBLE PREFORMED

6. OVERLAP EDGES AND ENDS, MINIMUM 3 INCHES, SEAL PERMANENTLY WATERPROOF BY METHOD

RECOMMENDED BY MANUFACTURER, AND APPLY UNIFORM BEAD OF SEALANT TO JOINT EDGE.

COMPLETION; REMOVE AND REPLACE MATERIALS CONCEALING WATERPROOFING AT NO EXTRA COST TO

2. ROLLED, SELF-ADHERED MODIFIED BITUMINOUS SHEET MEMBRANE: THICKNESS: 60 MIL, 0.060 INCH, MINIMUM.

CAPABLE OF BEING HEATED. MAINTAIN TEMPERATURE BETWEEN 55 F. AND 75 F. FOR 72 HOURS

3. VERIFY LOCATION AND SIZES OF UTILITY ROUGH-IN ASSOCIATED WITH WORK OF THIS SECTION.

5.USE FIXTURE ATTACHMENTS IN CONCEALED LOCATIONS FOR WALL MOUNTED COMPONENTS.

6.USE CONCEALED JOINT FASTENERS TO ALIGN AND SECURE ADJOINING CABINET UNITS.

3. CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

8. SECURE CABINETS TO FLOOR USING APPROPRIATE ANGLES AND ANCHORAGES.

9. CLEAN CASEWORK, COUNTERS, SHELVES, HARDWARE, FITTINGS, AND FIXTURES.

12. FINISH WORK IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS).

B. <u>QUALITY STANDARD</u>: ARCHITECTURAL WOODWORK INSTITUTE'S "ARCHITECTURAL WOODWORK QUALITY

B. DESIGN: METAL TUBE RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADING AND TO MATCH THE CONFIGURATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SEE DRAWINGS FOR REQUIRED RAILING ELEVATIONS.

1. FIELD MEASUREMENTS: VERIFY ACTUAL LOCATIONS OF WALLS AND OTHER CONSTRUCTION CONTIGUOUS WITH METAL FABRICATIONS BY FIELD MEASUREMENTS BEFORE FABRICATION.

1. RAILING SYSTEMS - GENERAL: FACTORY- OR SHOP-FABRICATED IN DESIGN INDICATED, TO SUIT SPECIFIC PROJECT CONDITIONS, AND FOR PROPER CONNECTION TO BUILDING STRUCTURE, AND IN LARGEST PRACTICAL

A. PERFORMANCE REQUIREMENTS: DESIGN AND FABRICATE RAILINGS AND ANCHORAGES TO RESIST THE FOLLOWING LOADS WITHOUT FAILURE, DAMAGE, OR PERMANENT SET; LOADS DO NOT NEED TO BE APPLIED SIMULTANEOUSLY. 1. LATERAL FORCE: 75 LB MINIMUM, AT ANY POINT, WHEN TESTED IN ACCORDANCE WITH ASTM 2. DISTRIBUTED LOAD: 50 LB/FT MINIMUM, APPLIED IN ANY DIRECTION AT THE TOP OF THE HANDRAIL,

WHEN TESTED IN ACCORDANCE WITH ASTM E935. 3. CONCENTRATED LOADS ON INTERMEDIATE RAILS: 50 PSF, MINIMUM. 4. CONCENTRATED LOAD: 200 LBS MINIMUM, APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE HANDRAIL SYSTEM, WHEN TESTED IN ACCORDANCE WITH ASTM E935. B. ASSEMBLY: JOIN LENGTHS, SEAL OPEN ENDS, AND CONCEAL EXPOSED MOUNTING BOLTS AND NUTS USING SLIP-ON NON-WELD MECHANICAL FITTINGS. FLANGES. ESCUTCHEONS. AND WALL BRACKETS. C. JOINTS: TIGHTLY FITTED AND SECURED, MACHINED SMOOTH WITH HAIRLINE SEAMS.

D. . FIELD CONNECTIONS: PROVIDE SLEEVES TO ACCOMMODATE SITE ASSEMBLY AND INSTALLATION. 2. METAL TUBE RAILING: ENGINEERED, POST SUPPORTED RAILING SYSTEM WITH METAL INFILL. A. WALL MOUNTED COMPONENTS: COMPONENTS NECESSARY TO SUPPORT RAILING WITH 1-1/2 INCH CLEARANCE FROM WALL, AND AS FOLLOWS:

1. UNDERSLUNG SUPPORT BRACKETS: SUPPORTS AT 60 INCHES, MAXIMUM. 2. WALL RETURN WITHOUT SUPPORT: TERMINATES 1/4 INCH FROM SIDE WALL. B. HANDRAIL BRACKETS: SAME METAL AS RAILING. C. INFILL AT PICKET RAILINGS: VERTICAL PICKETS

1. HORIZONTAL SPACING: MAXIMUM 4 INCHES ON CENTER. 2. MATERIAL: SOLID STEEL BAR. 3. SIZE: 3/4 INCH IPS / 1.05 INCH OD. 4. TOP MOUNTING: MECHANICALLY ATTACHED BY INTERNAL FITTINGS.

5. BOTTOM MOUNTING: WELDED TO TOP SURFACE OF STRINGER. D. INFILL AT PIPE RAILINGS: PIPE OR TUBE RAILS SLOPED PARALLEL TO STAIR. 1. OUTSIDE DIAMETER: 1 INCH.

2. MATERIAL: STEEL PIPE OR TUBE, ROUND. 3. JOINTING: WELDED AND GROUND SMOOTH AND FLUSH. E. INFILL AT MESH RAILINGS: METAL MESH PANELS. 1. METAL INFILL PANELS: WELDED WIRE MESH; 0.120 INCH DIAMETER STEEL WIRE, 2 INCH BY 2 INCH PATTERN AND 0.125 INCH THICK STEEL SHEET HEM WITH MANUFACTURER'S STANDARD

2. CARBON STEEL PANEL FINISH: MANUFACTURER'S STANDARD FACTORY FINISH; COMPLY WITH F. INFILL AT CABLE RAILINGS: STAINLESS STEEL CABLE. 1. MATERIAL: ASTM A666, TYPE 304. MOUNTING: MECHANICALLY ATTACHED TO FRAME.

FACTORY APPLIED COATING.

G. CUSTOM FABRICATED INFILL AT METAL TUBE RAILINGS: 1. MATERIAL: SOLID STEEL BAR. 2. MATERIAL: STEEL TUBE. 3. TOP MOUNTING: WELDED TO UNDERSIDE OF TOP RAIL.

4. BOTTOM MOUNTING: WELDED TO TOP SURFACE OF STRINGER.

A153/A153M WHERE CONNECTING GALVANIZED COMPONENTS.

H. END AND INTERMEDIATE POSTS: AS SHOWN ON DRAWINGS. 1. HORIZONTAL SPACING: AS INDICATED ON DRAWINGS. 2. MOUNTING: WELDED. J. WALL-MOUNTED HANDRAIL

1. 1-1/2 INCH DIAMETER STAINLESS STEEL

A. SECTIONS, SHAPES, PLATE AND BAR: ASTM A36/A36M. B. TUBING: ASTM A501/A501M STRUCTURAL TUBING, ROUND AND SHAPES AS INDICATED. C. PIPE: ASTM A53/A53M GRADE B SCHEDULE 40, BLACK FINISH.

G. WELDING MATERIALS: AWS D1.1/D1.1M; TYPE REQUIRED FOR MATERIALS BEING WELDED.

D. UNGALVANIZED STEEL SHEET: HOT- OR COLD-ROLLED, EXCEPT USE COLD-ROLLED WHERE FINISHED WORK WILL BE EXPOSED TO VIEW. E. GALVANIZED STEEL SHEET: ASTM A653/A653M, STRUCTURAL STEEL (SS) GRADE 33/230 WITH G40/Z120 COATING. F. BOLTS, NUTS, AND WASHERS: ASTM F3125/F3125M, TYPE 1, AND GALVANIZED TO ASTM

1. NON-WELD MECHANICAL FITTINGS FOR STAINLESS STEEL RAILINGS: SLIP-ON. GALVANIZED MALLEABLE IRON BOLTS OR SCREW FASTENERS. CASTINGS, FOR SCHEDULE 40 PIPE, WITH FLUSH SETSCREWS FOR TIGHTENING BY STANDARD HEX WRENCH, NO 2. WELDING FITTINGS: FACTORY- OR SHOP-WELDED FROM MATCHING PIPE OR TUBE; JOINTS AND SEAMS GROUND SMOOTH.

3. ANCHORS AND FASTENERS: PROVIDE ANCHORS AND OTHER MATERIALS AS REQUIRED TO ATTACH TO MADE OF SAME MATERIALS AS RAILING COMPONENTS UNLESS OTHERWISE INDICATED; WHERE EXPOSED FASTENERS ARE UNAVOIDABLE PROVIDE FLUSH COUNTERSUNK FASTENERS. A. EXPOSED FASTENERS: NO EXPOSED BOLTS OR SCREWS.

1. COMPLY WITH ALL DRAWINGS AND WRITTEN INSTRUCTIONS.

2. INSTALL COMPONENTS PLUMB AND LEVEL, ACCURATELY FITTED, FREE FROM DISTORTION OR DEFECTS AND WITH TIGHT JOINTS, EXCEPT WHERE NECESSARY FOR EXPANSION. 3. ANCHOR SECURELY TO STRUCTURE.

IVISION 6 - WOOD AND PLASTICS

06 1000- ROUGH CARPENTRY

1. PROVIDE SUFFICIENT FIRE RETARDANT TREATED WOOD BLOCKING AT ALL STUDS FOR SECURING OF WALL & CEILING ITEMS, WHETHER FURNISHED BY OWNER OR CONTRACTOR. 2. CONCEALED WOOD IS TO BE FIRE RETARDANT TREATED UNLESS NOTED OTHERWISE 3. PRESERVATIVE TREATED LUMBER IS REQUIRED FOR ALL ITEMS TO REMAIN IN CONTACT WITH CONCRETE OR MASONRY TO CONFORM TO AWPA STANDARD 5 4.PLYWOOD SHALL BE CD GRADE APA FIR OR YELLOW PINE. ALL PLY-WOOD TO BE FIRE RATED WHERE WALLS ARE INDICATED AS RATED CONSTRUCTION.

5.BLOCKING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES & LEVELS, SECURELY CONNECTED & RIGIDLY FIXED IN PLACE, USING NAILS, SCREWS, &/OR BOLTS AS INDICATED OR REQUIRED BY GOOD PRACTICE AND MANUFACTURER'S RECOMMENDATIONS.

A. <u>SUBMITTALS</u>: SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS. B. QUALITY STANDARD: ARCHITECTURAL WOODWORK INSTITUTE'S "ARCHITECTURAL WOODWORK QUALITY

1. SOFTWOOD LUMBER: MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY SUITABLE FOR SCHEDULED FINISH.

2. HARDWOOD LUMBER:MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY 3. SHEET MATERIALS: SOFTWOOD PLYWOOD, EXPOSED TO VIEW: FACE SPECIES AS INDICATED, PLAIN SAWN MEDIUM DENSITY FIBERBOARD CORE; PS 1 GRADE A-B, GLUE TYPE AS RECOMMENDED FOR APPLICATION.

I. COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT FEASIBLE. DISASSEMBLE ONLY AS NEEDED FOR SHIPPING AND INSTALLING. WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCRIBING AND TRIMMING 2. BACKOUT AND GROOVE BACKS OF FLAT MEMBERS, KERF BACKS OF OTHER WIDE, FLAT MEMBERS, EXCEPT

WHERE ENDS WILL BE EXPOSED IN FINISHED WORK.

1. DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETED, HVAC IS OPERATING, AND WOODWORK IS CONDITIONED TO PREVAILING CONDITIONS OF SPACE WHERE INSTALLED. MAINTAIN TEMPERATURE BETWEEN 55 F. AND 75 F. FOR 72 HOURS BEFORE BEGINNING INSTALLATION AND FOR 2. INSTALL WOODWORK LEVEL AND PLUMB AND SHIM AS REQUIRED WITH CONCEALED SHIMS TO 8

TOLERANCE OF 1 "/96" AND TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED. 3. SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK, SEAL CUT SURFACES, AND REPAIR DAMAGED FINISH 4. INSTALL TRIM WITH MINIMUM NUMBER OF JOINTS POSSIBLE USING FULL-LENGTH PIECES TO GREATEST EXTENT POSSIBLE. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS. 5. LUMBER FOR TRANSPARENT FINISH (STAINED OR CLEAR): USE PIECES MADE OF SOLID LUMBER

6. LUMBER FOR PAINTED FINISH: AT CONTRACTOR'S OPTION, USE PIECES WHICH ARE EITHER GLUED-UP OR MADE OF SOLID LUMBER STOCK. 7. DISCARD UNITS OF MATERIAL WHICH ARE UNSOUND, WARPED, BOWED, TWISTED, IMPROPERLY TREATED, NOT ADEQUATELY SEASONED OR TOO SMALL TO FABRICATE WORK WITH MINIMUM OF JOINTS OR OPTIMUM JOINTING ARRANGEMENTS. OR WHICH ARE DEFECTIVELY MANUFACTURED WITH RESPECT TO SURFACES, SIZES OR PATTERNS. 8. INSTALL THE WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED

USING CONCEALED SHIMS. 9. SCRIBE AND CUT WORK TO FIT ADJOINING WORK, AND REFINISH CUT SURFACES OR REPAIR DAMAGED FINISH AT CUTS. 10. SAND WORK SMOOTH AND SET EXPOSED NAILS AND SCREWS.

11. APPLY WOOD FILLER IN EXPOSED NAIL AND SCREW INDENTATIONS. 12. FINISH WORK SHALL BE SMOOTH, FREE FROM ABRASION, TOOL MARKS, RAISED GRAIN MARKINGS, OR SIMILAR DEFECTS ON EXPOSED SURFACES.

07 2119 - FOAMED-IN-PLACE INSULATION - CARLISLE SPRAY FOAM INSULATION

A. SUBMITTALS: SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS INCLUDING 1. PRODUCT DATA: PROVIDE PRODUCT DESCRIPTION, INSULATION PROPERTIES, OVERCOAT PROPERTIES DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS. INDICATE COMPONENT PROFILES, FASTENING METHODS,

PREPARATION REQUIREMENTS. 2. MANUFACTURER QUALIFICATION: DOCUMENTATION OF CURRENT EVALUATION OF PROPOSED

MANUFACTURER AND MATERIALS. 3. INSTALLER QUALIFICATION: DOCUMENTATION OF CURRENT CONTRACTOR ACCREDITATION AND CURRENT INSTALLER CERTIFICATION. KEEP COPIES OF ALL CONTRACTOR ACCREDITATION AND INSTALLER CERTIFICATION ON SITE DURING AND AFTER INSTALLATION. PRESENT ON-SITE DOCUMENTATION UPON

1. REGULATORY REQUIREMENTS

BASIS OF DESIGN: BASF - SPRAYTITE® INSULATION AND AIR SEALING MATERIAL

A. THERMAL BARRIER: COMPLY WITH APPLICABLE CODE FOR FLAME AND SMOKE, CONCEALMENT, AND FIRE PROTECTION REQUIREMENTS. 1. PROVIDE 15-MINUTE THERMAL BARRIER OF 1/2-INCH (12.7 MM) GYPSUM BOARD OR EQUIVALENT MATERIAL COMPLYING WITH NFPA 275 TEST METHOD. 2. PROVIDE FOAMED-IN-PLACE INSULATION EITHER EXPOSED OR WITH PROTECTIVE COVERING COMPLYING WITH FM 4880, NFPA 286, UL 1040, OR UL 1715. 2. MATERIALS

A. FOAMED-IN-PLACE INSULATION: MEDIUM-DENSITY, RIGID OR SEMI-RIGID, CLOSED CELL POLYURETHANE FOAM; FOAMED ON-SITE. USE NON-OZONE-DEPLETING AND NON-FLAMMABLE BLOWING AGENT COMPLIANT WITH STATE ENVIRONMENTAL REGULATIONS. 1. THERMAL RESISTANCE: R-VALUE (RSI-VALUE) OF 6.9 (1.21), MINIMUM, PER 1-INCH (25.4 MM) THICKNESS AT 75 DEGREES F (24 DEGREES C) MEAN TEMPERATURE WHEN TESTED IN ACCORDANCE WITH ASTM C518. 2. WATER VAPOR PERMEANCE: VAPOR RETARDER; 1 PERM (0.57 NG/(PA S SQ M)), MAXIMUM, WHEN TESTED AT INTENDED THICKNESS IN ACCORDANCE WITH ASTM E96/E96M, DESICCANT METHOD. 3. AIR PERMEANCE: 0.04 CFM/SQ FT (0.2 L/(S/SQ M)), MAXIMUM, WHEN TESTED AT INTENDED THICKNESS IN ACCORDANCE WITH ASTM E2178 AT 1.57 PSF (75 PA). 4. CLOSED CELL CONTENT: AT LEAST 90 PERCENT.

5. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/450, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84. 3. ACCESSORIES A. PRIMER: AS REQUIRED BY INSULATION MANUFACTURER.

B. PROTECTIVE COATING: CEMENTITIOUS TYPE, SPRAY APPLIED; FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/450, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

A. APPLY INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. B. APPLY INSULATION BY SPRAY METHOD TO A UNIFORM MONOLITHIC DENSITY WITHOUT VOIDS.

07 6200 - SHEET METAL FLASHING AND TRIM FABRICATED SHEET METAL ITEMS, INCLUDING FLASHINGS, COUNTERFLASHINGS, AND OTHER ITEMS INDICATED IN

AAMA 611 - VOLUNTARY SPECIFICATION FOR ANODIZED ARCHITECTURAL ALUMINUM 2014 (2015 ERRATA). ASTM C920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS 2018. CDA A4050 - COPPER IN ARCHITECTURE - HANDBOOK CURRENT EDITION. SMACNA (ASMM) - ARCHITECTURAL SHEET METAL MANUAL 2012.

1. SHOP DRAWINGS: INDICATE MATERIAL PROFILE, JOINTING PATTERN, JOINTING DETAILS, FASTENING METHODS, FLASHINGS, TERMINATIONS, AND INSTALLATION DETAILS.

I. PERFORM WORK IN ACCORDANCE WITH SMACNA (ASMM) AND CDA A4050 REQUIREMENTS AND STANDARD DETAILS, EXCEPT AS OTHERWISE INDICATED.

I. STACK MATERIAL TO PREVENT TWISTING, BENDING, AND ABRASION, AND TO PROVIDE VENTILATION. SLOPE METAL SHEETS TO ENSURE DRAINAGE. PREVENT CONTACT WITH MATERIALS THAT COULD CAUSE DISCOLORATION OR STAINING

PRE-FINISHED ALUMINUM: ASTM B209 (ASTM B209M); 20 GAGE, (0.032 INCH) THICK; PLAIN FINISH SHOP PRE-COATED WITH MODIFIED SILICONE COATING. 1. FLUOROPOLYMER COATING: HIGH PERFORMANCE ORGANIC FINISH, AAMA 2604: MULTIPLE COAT. THERMALLY CURED FLUOROPOLYMER FINISH SYSTEM. 2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

1. FORM SECTIONS TRUE TO SHAPE, ACCURATE IN SIZE, SQUARE, AND FREE FROM DISTORTION OR DEFECTS. 2. FORM PIECES IN LONGEST POSSIBLE LENGTHS. 3. HEM EXPOSED EDGES ON UNDERSIDE 1/2 INCH; MITER AND SEAM CORNERS. 4. FORM MATERIAL WITH FLAT LOCK SEAMS, EXCEPT WHERE OTHERWISE INDICATED; AT MOVING JOINTS, USE SEALED LAPPED, BAYONET-TYPE OR INTERLOCKING HOOKED SEAMS 5. FABRICATE FLASHINGS TO ALLOW TOE TO EXTEND 2 INCHES OVER ROOFING GRAVEL. RETURN AND BRAKE

I. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS. 2. PRIMER: ZINC CHROMATE TYPE.

B. CONCEALED SEALANTS: NON-CURING BUTYL SEALANT 4. EXPOSED SEALANTS: ASTM C920; ELASTOMERIC SEALANT, WITH MINIMUM MOVEMENT CAPABILITY AS THICKNESS: 60 MIL, 0.060 INCH, MINIMUM. CARRIER FILM: 4 MILS, POLYMERIC MEMBRANE:56 MILS, SHEET WIDTH: 5, RECOMMENDED BY MANUFACTURER FOR SUBSTRATES TO BE SEALED: COLOR TO MATCH ADJACENT MATERIAL.

> 1. SECURE FLASHINGS IN PLACE USING CONCEALED FASTENERS, AND USE EXPOSED FASTENERS ONLY WHERE PERMITTED 1. APPLY PLASTIC CEMENT COMPOUND BETWEEN METAL FLASHINGS AND FELT FLASHINGS. 1. FIT FLASHINGS TIGHT IN PLACE; MAKE CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES. 2. SEAL METAL JOINTS WATERTIGHT.

A. <u>SUBMITTALS</u>: PRODUCT DATA, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT SUBMITTED.

B. JOINT-SEALANT SCHEDULE: INCLUDE THE FOLLOWING INFORMATION: 1. JOINT-SEALANT APPLICATION, JOINT LOCATION, AND DESIGNATION. 2. JOINT-SEALANT MANUFACTURER AND PRODUCT NAME.

3. JOINT-SEALANT FORMULATION. 4. JOINT-SEALANT COLOR.

. <u>ENVIRONMENTAL LIMITATIONS</u>: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4.4 deg C).

. <u>COMPATIBILITY:</u> PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS. E. <u>JOINT SEALANTS</u>:

1. COLORS OF EXPOSED JOINT SEALANTS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. 2. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES NT, G, A, AND O; FORMULATED WITH FUNGICIDE. 3. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT. NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION SEALANT COMPLYING WITH ASTM C 834.

4. ACOUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE, NONSTAINING, LATEX SEALANT 5. ACOUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, GUNNABLE, SYNTHETIC-RUBBER SEALANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AIRBORNE SOUND.

6. EXTERIOR CONCRETE PANELS, NATURAL STONES, MASONRY, ALUMINUM CURTAINWALLS, METAL PANELS AND WINDOW PERIMETERS. BASIS OF DESIGN PRODUCTS A. TREMCO INCORPORATED; SPECTREM 1

B. DOW CORNING CORPORATION; 790. C. PECORA CORPORATION; 890NST. EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES. ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.

URETHANE JOINT SEALANT: MULTICOMPONENT, NONSAG, TRAFFIC GRADE, CLASS 25. 8. FIRESTOP SEALANTS:INSTALL AT FIRE RATED ASSEMBLIES AND AS DIRECTED WITHIN UL REFERENCES BASIS OF DESIGN PRODUCTS: A. HILTI B. 3M

1. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING. 2. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE. 3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT

MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR

JOINT SURFACES AT BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE. 1. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF

SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-2. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS TO JOINT SUBSTRATES. 3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR. FOR BACK OF JOINT. 4. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

. INSTALLATION: COMPLY WITH ASTM C 1193; ASTM C 919 FOR ACOUSTICAL JOINTS; AND AS FOLLOWS: 1. REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES. 2. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED.

3. INSTALL SEALANT TOOLED CONCAVE, FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

CONSTRUCTION As Noted on Plans Review

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COLLINS WEBB



COLLINS WEBB #: **SPECIFICATIONS** INSTRUCTIONS ON KEYING OF LOCKS HAS BEEN FULFILLED. ALL KEYING SHALL BE COORDINATED WITH THE

B. PRODUCTS: HARDWARE SELECTION BY OWNER. STRIKES. PROVIDE MANUFACTURER'S STANDARD WROUGHT BOX STRIKE FOR EACH LATCH OR LOCK BOLT, WITH CURVED LIP EXTENDED TO PROTECT FRAME. FINISH TO MATCH HARDWARE SET. PROVIDE STANDARD (OPEN) STRIKE PLATES FOR INTERIOR DOORS WHERE WOOD DOOR FRAMES ARE USED. 2. IN GENERAL, HARDWARE FINISH SHALL BE MATTE BLACK UNLESS SPECIFIED DIFFERENTLY ON HARDWARE

3. SUPPLY CAL ROYAL HDFS3 FLEXIBLE DOOR STOPS IN THE APARTMENT DWELLING UNITS. USE 2 IVHP-23 HINGE STOPS WHERE FLEXIBLE STOPS CANNOT BE USED. 4. SUPPLY OUT SWINGING EXTERIOR DOORS WITH NON REMOVABLE PINS.

1. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES" BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, AND EXCEPT AS MAY BE OTHERWISE DIRECTED BY ARCHITECT. MOUNT HARDWARE IN UNITS DESIGNATED FOR USE BY THE HANDICAPPED AT HEIGHTS RECOMMENDED FOR USE BY THE HANDICAPPED. 2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO

REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN THE DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON

SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE

3. SET UNITS LEVEL. PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION. 4.DRILL AND COUNTERSINK UNITS WHICH ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS. 5.METAL THRESHOLDS SHALL BE SET IN A SOLID BED OF NON STAINING THIOKOL BASE CAULKING. 6. ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR, TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE. 7.FINAL ADJUSTMENT: WHEREVER HARDWARE INSTALLATION IS MADE MORE THAN ONE MONTH PRIOR TO

ACCEPTANCE OR OCCUPANCY OF A SPACE OR AREA, RETURN TO THE WORK DURING THE WEEK PRIOR TO ACCEPTANCE OR OCCUPANCY, AND MAKE FINAL CHECK AND ADJUSTMENT OF ALL HARDWARE ITEMS IN SUCH SPACE OR AREA. CLEAN OPERATING ITEMS AS NECESSARY TO RESTORE PROPER FUNCTION AND FINISH OF HARDWARE AND DOORS. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT.

A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH DETAILS OF EACH OPENING, SHOWING ELEVATIONS, GLAZING, FRAME PROFILES, AND ANY INDICATED FINISH REQUIREMENTS.

B. <u>HOLLOW METAL FRAME MANUFACTURERS:</u> 1. CECO DOOR, AN ASSA ABLOY GROUP COMPANY: WWW.ASSAABLOYDSS.COM. 2. DE LA FONTAINE INC: WWW.DELAFONTAINE.COM 3. REPUBLIC DOORS, AN ALLEGION BRAND: WWW.REPUBLICDOOR.COM 4. STEELCRAFT, AN ALLEGION BRAND: WWW.ALLEGION.COM

. STEEL USED FOR FABRICATION OF FRAMES SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING REQUIREMENTS; GALVANNEALED STEEL CONFORMING TO ASTM A653/A653M, COLD-ROLLED STEEL CONFORMING TO ASTM A1008/A1008M, OR HOT-ROLLED PICKLED AND OILED (HRPO) STEEL CONFORMING TO ASTM A1011/A1011M, COMMERCIAL STEEL (CS) TYPE B FOR EACH.

831 OR BHMA A156.115 AND ANSI/SDI A250.8 (SDI-100) IN ACCORDANCE WITH SPECIFIED REQUIREMENTS. 3. ZINC COATING FOR TYPICAL INTERIOR AND/OR EXTERIOR LOCATIONS: PROVIDE METAL COMPONENTS ZINC-COATED (GALVANIZED) AND/OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A653/A653M, WITH MANUFACTURER'S STANDARD COATING THICKNESS, UNLESS NOTED OTHERWISE FOR SPECIFIC HOLLOW METAL DOORS AND FRAMES. COMBINED REQUIREMENTS: IF A PARTICULAR FRAME UNIT IS INDICATED TO COMPLY WITH MORE THAN ONE TYPE OF REQUIREMENT, COMPLY WITH THE SPECIFIED REQUIREMENTS FOR EACH TYPE; FOR INSTANCE, AN EXTERIOR DOOR THAT IS ALSO INDICATED AS BEING SOUND-RATED MUST COMPLY WITH THE REQUIREMENTS SPECIFIED FOR EXTERIOR DOORS AND FOR SOUND-RATED DOORS; WHERE TWO REQUIREMENTS CONFLICT,

2. HARDWARE PREPARATIONS, SELECTIONS AND LOCATIONS: COMPLY WITH NAAMM HMMA 830 AND NAAMM HMMA

COMPLY WITH THE MOST STRINGENT. E. <u>HOLLOW METAL FRAMES</u>

1.COMPLY WITH STANDARDS AND/OR CUSTOM GUIDELINES AS INDICATED FOR CORRESPONDING DOOR IN ACCORDANCE WITH APPLICABLE DOOR FRAME REQUIREMENTS. 2. INTERIOR DOOR FRAMES, NON-FIRE RATED: FACE WELDED TYPE. FRAME FINISH: FACTORY FINISHED. A. FULL LENGTH STOPS

3. DOOR FRAMES, FIRE-RATED: FACE WELDED TYPE. FIRE RATING: SAME AS DOOR, LABELED. A. FULL LENGTH STOPS B. FRAME METAL THICKNESS: 18 GAGE, 0.042 INCH, MINIMUM.

B. FRAME METAL THICKNESS: 18 GAGE, 0.042 INCH, MINIMUM.

4. SOUND-RATED DOOR FRAMES: FULL PROFILE/CONTINUOUSLY WELDED TYPE. A. FRAME METAL THICKNESS: 18 GAGE, 0.042 INCH, MINIMUM. 5. FRAMES FOR WOOD DOORS: COMPLY WITH FRAME REQUIREMENTS IN ACCORDANCE WITH CORRESPONDING

6. BORROWED LITES GLAZING FRAMES: CONSTRUCTION AND FACE DIMENSIONS TO MATCH DOOR FRAMES, AND AS 7. FRAMES IN MASONRY WALLS: SIZE TO SUIT MASONRY COURSING WITH HEAD MEMBER 4 INCH HIGH TO FILL OPENING WITHOUT CUTTING MASONRY UNITS. 8. FRAMES WIDER THAN 48 INCHES: REINFORCE WITH STEEL CHANNEL FITTED TIGHTLY INTO FRAME HEAD, FLUSH

1.PRIMER: RUST-INHIBITING, COMPLYING WITH ANSI/SDI A250.10, DOOR MANUFACTURER'S STANDARD.

 GLAZING: AS INDICATED IN DRAWINGS OR AS SPECIFIED. 2. REMOVABLE STOPS: FORMED SHEET STEEL, SHAPE AS INDICATED ON DRAWINGS, MITERED OR BUTTED CORNERS; PREPARED FOR COUNTERSINK STYLE TAMPER PROOF SCREWS. 3. SILENCERS: RESILIENT RUBBER, FITTED INTO DRILLED HOLE; PROVIDE THREE ON STRIKE SIDE OF SINGLE DOOR, THREE ON CENTER MULLION OF PAIRS, AND TWO ON HEAD OF PAIRS WITHOUT CENTER MULLIONS.

1.INSTALL FRAMES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RELATED REQUIREMENTS OF SPECIFIED FRAME STANDARDS OR CUSTOM GUIDELINES INDICATED. 2. INSTALL PREFINISHED FRAMES AFTER PAINTING AND WALL FINISHES ARE COMPLETE. 3. INSTALL FIRE RATED UNITS IN ACCORDANCE WITH NFPA 80.

4. TEMPORARY FRAME SPREADERS: PROVIDE FOR FACTORY- OR SHOP-ASSEMBLED FRAMES.

4. COORDINATE FRAME ANCHOR PLACEMENT WITH WALL CONSTRUCTION.

A. SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES. TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.

B. <u>BASIS OF DESIGN:</u> LINCOLN PARK, MASONITE, LE CHATEAU COLLECTION. HOLLOW CORE DOORS OR APPROVED

C. <u>DOORS</u>: 1-3/8" THICK PREHING. SIZES, SPECIES, AND DESIGNS AS INDICATED COMPLYING WITH WDMA I.S.1-A 1. GRADE: PREMIUM PAINT-GRADE

A.INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES. 5. SIZES AS INDICATED IN DRAWINGS

1. FACTORY FIT DOORS TO SUIT FRAME OPENINGS TO COMPLY WITH REFERENCED STANDARD. COMPLY WITH NFPA 80 FOR FIRE-RESISTANCE RATED DOORS. 2. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED. 3. CUT AND TRIM OPENINGS TO COMPLY WITH REFERENCED STANDARDS.

4. FACTORY FINISH DOORS FOR OPAQUE FINISH. . COMPLY WITH WDMA'S "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS" ALIGNED AND

FITTED IN FRAMES WITH UNIFORM CLEARANCES.

08 4313 - ALUMINUM FRAMED STOREFRONTS

A. SUBMITTALS: PRODUCT DATA: PROVIDE COMPONENT DIMENSIONS, DESCRIBE COMPONENTS WITHIN ASSEMBLY, ANCHORAGE AND FASTENERS, GLASS AND INFILL, DOOR HARDWARE, INTERNAL DRAINAGE DETAILS. 1. HARDWARE SCHEDULE: COMPLETE ITEMIZATION OF EACH ITEM OF HARDWARE TO BE PROVIDED FOR EACH DOOR, CROSS-REFERENCED TO DOOR IDENTIFICATION NUMBERS IN CONTRACT DOCUMENTS. 2. SHOP DRAWINGS: INDICATE SYSTEM DIMENSIONS. FRAMED OPENING REQUIREMENTS AND TOLERANCES. AFFECTED RELATED WORK, EXPANSION AND CONTRACTION JOINT LOCATION AND DETAILS, AND FIELD WELDING

B. WARRANTY: WARRANTY: SUBMIT MANUFACTURER WARRANTY AND ENSURE FORMS HAVE BEEN COMPLETED IN OWNER'S NAME AND REGISTERED WITH MANUFACTURER. 1. CORRECT DEFECTIVE WORK WITHIN A FIVE YEAR PERIOD AFTER DATE OF SUBSTANTIAL COMPLETION. 2. PROVIDE FIVE YEAR MANUFACTURER WARRANTY AGAINST FAILURE OF GLASS SEAL ON INSULATING GLASS UNITS, INCLUDING INTERPANE DUSTING OR MISTING. INCLUDE PROVISION FOR REPLACEMENT OF FAILED UNITS. 3. PROVIDE FIVE YEAR MANUFACTURER WARRANTY AGAINST EXCESSIVE DEGRADATION OF EXTERIOR FINISH. INCLUDE PROVISION FOR REPLACEMENT OF UNITS WITH EXCESSIVE FADING, CHALKING, OR FLAKING.

C. <u>BASIS OF DESIGN</u>: FALKBUILT KAI GLASS WALL WITH OUTER FRAME AND BUTT-JOINED GLAZING, FALKBUILT FRAMED GLASS SLIDING DOOR WITH ACOUSTIC DOCK AND DROP SEAL. ANODIZED. VERIFY FINISH WITH OWNER. 1. OTHER MANUFACTURERS: A. STEELCASE EVERWALL WITH SLIDER DOOR (RE: A501)

B. STEELCASE LITE SCALE WITH STEELCASE VIA DOOR (RE: A501)

1. ALUMINUM-FRAMED STOREFRONT: FACTORY FABRICATED, FACTORY FINISHED ALUMINUM FRAMING MEMBERS WITH INFILL, AND RELATED, ANCHORAGE AND ATTACHMENT DEVICES. 2. EXTRUDED ALUMINUM: ASTM B221 (ASTM B221M) 3. STRUCTURAL STEEL SECTIONS: ASTM A36/A36M; SHOP PRIMED. 4. FASTENERS: STAINLESS STEEL.

5. SEALANT FOR SETTING THRESHOLDS: NON-CURING BUTYL TYPE. 6. GLAZING GASKETS: TYPE TO SUIT APPLICATION TO ACHIEVE ACOUSTICE REQUIREMENTS.

i. <u>FINISHES:</u>
1. CLASS I COLOR ANODIZED FINISH: AAMA 611 AA-M12C22A44 ELECTROLYTICALLY DEPOSITED COLORED ANODIC COATING NOT LESS THAN 0.7 MILS THICK. COLOR AS SELECTED BY OWNER & ARCHITECT.

1. FOR EACH DOOR, INCLUDE SURROUNDING SEALS, DROP SEAL, AND THRESHOLD. 2. OTHER DOOR HARDWARE: STOREFRONT MANUFACTURER'S STANDARD TYPE TO SUIT APPLICATION. A. FINISH ON HAND-CONTACTED ITEMS: MATTE BLACK. B. FOR EACH DOOR, INCLUDE BUTT HINGES, PIVOTS, PUSH HANDLE, PULL HANDLE, EXIT DEVICE, NARROW STILE HANDLE LATCH, AND CLOSER.

1. VERIFY DIMENSIONS, TOLERANCES, AND METHOD OF ATTACHMENT WITH OTHER WORK. 2. VERIFY THAT WALL OPENINGS AND ADJOINING AIR AND VAPOR SEAL MATERIALS ARE READY TO RECEIVE WORK 3. INSTALL WALL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

4. ATTACH TO STRUCTURE TO PERMIT SUFFICIENT ADJUSTMENT TO ACCOMMODATE CONSTRUCTION TOLERANCES AND OTHER IRREGULARITIES 5. ALIGN ASSEMBLY PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN ASSEMBLY DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK. 6. PROVIDE ACOUSTIC ISOLATION WHERE COMPONENTS PENETRATE OR DISRUPT BUILDING INSULATION. 7. SET THRESHOLDS IN BED OF SEALANT AND SECURE. 8. INSTALL HARDWARE USING TEMPLATES PROVIDED. ADJUST OPERATING HARDWARE AND SASH FOR SMOOTH

9. WASH DOWN SURFACES WITH A SOLUTION OF MILD DETERGENT IN WARM WATER, APPLIED WITH SOFT, CLEAN WIPING CLOTHS, AND TAKE CARE TO REMOVE DIRT FROM CORNERS AND TO WIPE SURFACES CLEAN. 10. PROTECT INSTALLED PRODUCTS FROM DAMAGE UNTIL DATE OF SUBSTANTIAL COMPLETION.

A. <u>SUBMITTALS</u>: PRODUCT DATA ON INSULATING GLASS UNIT, GLAZING UNIT, AND [SPANDREL] GLAZING TYPES: PROVIDE STRUCTURAL, PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS, SIZE LIMITATIONS, SPECIAL HANDLING AND INSTALLATION REQUIREMENTS. 1. PRODUCT DATA ON GLAZING COMPOUNDS AND ACCESSORIES: PROVIDE CHEMICAL, FUNCTIONAL, AND ENVIRONMENTAL CHARACTERISTICS, LIMITATIONS, SPECIAL APPLICATION REQUIREMENTS, AND IDENTIFY AVAILABLE

2. SAMPLES: SUBMIT TWO SAMPLES [12] BY [12] INCH IN SIZE OF GLASS UNITS. B. WARRANTY: WARRANTY DOCUMENTATION: SUBMIT MANUFACTURER WARRANTY AND ENSURE THAT FORMS HAVE BEEN COMPLETED IN OWNER'S NAME AND REGISTERED WITH MANUFACTURER. 1. INSULATING GLASS UNITS: PROVIDE A FIVE (5) YEAR MANUFACTURER WARRANTY TO INCLUDE COVERAGE FOR SEAL FAILURE. INTERPANE DUSTING OR MISTING, INCLUDING PROVIDING PRODUCTS TO REPLACE FAILED UNITS

C. STOREFRONT GLAZING BASIS OF DESIGN: GUARDIAN -SUNGUARD SNX 62/27 COATED GLASS, CLEAR. WITH .24 U-

1. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 AND ANSI Z97.1. 2. GLAZING PUBLICATIONS: WHERE APPLICABLE, COMPLY WITH WITH THE PUBLISHED RECOMMENDATIONS OF THE FOLLOWING:

A. GANA PUBLICATIONS: "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE".

B. SIGMA PUBLICATIONS: SIGMA TM-3000. "VERTICAL GLAZING GUIDELINES".

E. <u>GLASS:</u>
1. FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY q3 2. HEAT-TREATED FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRED BY CODE OR INSTALLATION 3. MIRROR GLASS: ASTM C 1036, TYPE I, CLASS 1, QUALITY q1, SILVER COATED PER FS DDM411C,

6.0mm THICK, WITH EDGES FLAT POLISHED. 1. SEALED INSULATING-GLASS UNITS: PREASSEMBLED UNITS COMPLYING WITH ASTM E 774 FOR CLASS CBA UNITS WITH TWO SHEETS OF GLASS SEPARATED BY A 1/2-INCH DEHYDRATED SPACE FILLED WITH AIR. EXTERIOR GLASS COLOR TO MATCH EXISTING. INTERIOR GLASS SHALL BE

. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS.

GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL". 2. SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR

3. AFTER GLASS INSTALLATION IS COMPLETE, REMOVE GLAZING MATERIALS AND LABELS FROM FINISHED SURFACES, AND THOROUGHLY CLEAN GLASS AND ADJACENT FRAMING AND SURFACES. REPEAT AS NECESSARY PRIOR TO FINAL WALK-THROUGH.

A. SUBMITTALS: FOR EACH TYPE OF PRODUCT INDICATED. THE CONTRACTOR SHALL PREPARE, AND SUBMIT TO THE ARCHITECT FOR APPROVAL, COMPLETE SHOP DRAWINGS: INCLUDE MIRROR ELEVATIONS, EDGE DETAILS, MIRROR HARDWARE, AND ATTACHMENTS TO OTHER WORK. WARRANTY: SAMPLE OF SPECIAL WARRANTY.

B. QUALITY ASSURANCE: VINYL CASEMENT WINDOWS- BASIS OF DESIGN: MI 3500 VINYL SINGLE- HUNG WINDOWS. 1. GLAZING PUBLICATIONS: COMPLY WITH GANA'S "GLAZING MANUAL" AND "MIRRORS, HANDLE WITH EXTREME CARE: TIPS FOR THE PROFESSIONAL ON THE CARE AND HANDLING OF MIRRORS." 2.SAFETY GLAZING PRODUCTS: FOR MIRRORS, PROVIDE PRODUCTS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 FOR CATEGORY II MATERIALS. 3. PRECONSTRUCTION MIRROR MASTIC COMPATIBILITY TEST: SUBMIT MIRROR MASTIC PRODUCTS TO MIRROR MANUFACTURER FOR TESTING TO DETERMINE COMPATIBILITY OF MASTIC WITH MIRROR BACKING AND SUBSTRATES ON WHICH MIRRORS ARE INSTALLED.

C. <u>WARRANTY:</u> SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MIRROR MANUFACTURER AGREES TO REPLACE MIRRORS THAT DETERIORATE WITHIN SPECIFIED WARRANTY PERIOD. DETERIORATION OF MIRRORS IS DEFINED AS DEFECTS DEVELOPED FROM NORMAL USE THAT ARE NOT ATTRIBUTED TO MIRROR BREAKAGE OR TO MAINTAINING AND CLEANING MIRRORS CONTRARY TO MANUFACTURER'S WRITTEN INSTRUCTIONS. DEFECTS INCLUDE DISCOLORATION, BLACK SPOTS, AND CLOUDING OF THE SILVER FILM. 1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

D. <u>BASIS OF DESIGN</u>: SILVERED FLAT GLASS MIRRORS 1. GLASS MIRRORS, GENERAL: ASTM C 1503; MANUFACTURED USING COPPER FREE, LOW LEAD MIRROR COATING 2. CLEAR GLASS: MIRROR GLAZING QUALITY; ULTRACLEAR (LOW IRON) FLOAT GLASS WITH A MINIMUM 91 PERCENT VISIBLE LIGHT TRANSMISSION. NOMINAL THICKNESS: 1/4 INCH. 3. TEMPERED CLEAR GLASS: MIRROR GLAZING QUALITY, FOR BLEMISH REQUIREMENTS; AND COMPLY WITH

APPLIED. NOMINAL THICKNESS: 1/4 INCH. E. MIRROR HARDWARE: TOP AND BOTTOM ALUMINUM J CHANNELS: ALUMINUM EXTRUSIONS WITH A RETURN DEEP ENOUGH TO PRODUCE A GLAZING CHANNEL TO ACCOMMODATE MIRRORS OF THICKNESS INDICATED AND IN LENGTHS REQUIRED TO COVER BOTTOM AND TOP EDGES OF EACH MIRROR IN A SINGLE PIECE. FINISH: CLEAR

ASTM C 1048 FOR KIND FT, CONDITION A, TEMPERED FLOAT GLASS BEFORE SILVER COATING IS

1. TOP AND BOTTOM MIRROR MOUNTING CLIPS: #277 MIRROR CLIPS AS MANUFACTURED BY KNAPE & VOGT OR 2. FASTENERS: FABRICATED OF SAME BASIC METAL AND ALLOY AS FASTENED METAL AND MATCHING IT IN FINISHED COLOR AND TEXTURE WHERE FASTENERS ARE EXPOSED.

F. <u>INSTALLATION:</u> GENERAL: EXAMINE SUBSTRATES, OVER WHICH MIRRORS ARE TO BE MOUNTED, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH INSTALLATION TOLERANCES, SUBSTRATE PREPARATION, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK. A. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY OF MIRROR MASTIC WITH EXISTING FINISHES OR PRIMERS. B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AND

1 INSTALL MIRRORS TO COMPLY WITH MIRROR MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH REFERENCED. GANA PUBLICATIONS. MOUNT MIRRORS ACCURATELY IN PLACE IN A MANNER THAT AVOIDS DISTORTING REFLECTED IMAGES. 2. INSTALL WALL MOUNTED ANNEALED GLASS MIRRORS IN THE APARTMENT UNITS WITH MIRROR CLIPS. ATTACH MIRROR HARDWARE SECURELY TO MOUNTING SURFACES WITH MECHANICAL FASTENERS INSTALLED WITH 3. ANCHORS OR INSERTS AS APPLICABLE. INSTALL FASTENERS SO HEADS DO NOT IMPOSE POINT LOADS ON 4. PROTECT MIRRORS FROM BREAKAGE AND CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS.

5. MAINTAIN ENVIRONMENTAL CONDITIONS THAT WILL PREVENT MIRRORS FROM BEING EXPOSED TO MOISTURE FROM CONDENSATION OR OTHER SOURCES FOR CONTINUOUS PERIODS OF TIME. 6. WASH EXPOSED SURFACE OF MIRRORS NOT MORE THAN FOUR DAYS BEFORE DATE SCHEDULED FOR INSPECTIONS THAT ESTABLISH DATE OF SUBSTANTIAL COMPLETION. WASH MIRRORS AS RECOMMENDED IN WRITING BY MIRROR MANUFACTURER.

<u>DIVISION 9 - FINISHES</u>

09 2116 - GYPSUM BOARD ASSEMBLIES

A. STEEL FRAMING MEMBERS: COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS: 1. STEEL SHEET COMPONENTS: COMPLY WITH ASTM C645 WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT ZINC COATING. 2. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0625" DIAMETER OR DOUBLE STRAND OF .0475" DIAMETER WIRE. 3. WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0162" DIAMETER. B. PANEL PRODUCTS:PROVIDE IN THICKNESS AND TYPE INDICATED IN THE CONSTRUCTION DRAWINGS IN

MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS FOLLOWS: 1. GYPSUM WALLBOARD: ASTM C 36. TYPE 'X' WITH TAPERED EDGES. SAG-RESISTANT TYPE FOR CEILING SURFACES. 2. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630, TYPE 'X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED.

1. TRIM: ASTM 1047, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED ZINC. OR PLASTIC a. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE b. EXPOSED PANEL EDGES: PROVIDE LC-BEAD (J-BEAD) UNLESS NOTED OTHERWISE; USE TEAR-AWAY BEAD WHERE GYP. BD. MEETS WINDOW FRAMES OR CEILING GRID. c. CONTROL JOINTS: PROVIDE WHERE INDICATED OR APPROXIMATELY 30'-0" MAX. CONTACT

ARCHITECT FOR LOCATIONS IF NOT INDICATED.

2. SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED)

3. ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PAINTABLE, NONSTAINING LATEX. I. FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT AND PROVIDE BRACING AS NECESSARY FOR PROPER SUPPORT WHETHER INDICATED OR NOT. 2. GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD

A. LEVEL 1 (EMBED TAPE AT JOINTS): AT CONCEALED AREAS UNLESS A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLY. B. LEVEL 2 (EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE. FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT): AT SUBSTRATES BEHIND TILE. C. LEVEL 4 (EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH

COAT): AT ALL WALLS RECEIVING FLAT, EGGSHELL, OR SATIN SHEEN PAINT OR

ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK AND FINISH AS FOLLOWS:

D. LEVEL 5 (EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY THIN SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH COAT): AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD

A. SUBMITTALS: SHOP DRAWINGS: INDICATE PREFABRICATED WORK, COMPONENT DETAILS, STUD LAYOUT, FRAMED OPENINGS, ANCHORAGE TO STRUCTURE, ACOUSTIC DETAILS, TYPE AND LOCATION OF FASTENERS, ACCESSORIES, AND ITEMS OF OTHER RELATED WORK. DESCRIBE METHOD FOR SECURING STUDS TO TRACKS, SPLICING, AND FOR BLOCKING AND REINFORCEMENT OF FRAMING CONNECTIONS. 1. PRODUCT DATA: PROVIDE MANUFACTURER'S DATA ON PARTITION HEAD TO STRUCTURE CONNECTORS, SHOWING COMPLIANCE WITH REQUIREMENTS. 2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE SPECIAL PROCEDURES AND PERIMETER CONDITIONS

. CLARKDIETRICH BUILDING SYSTEMS: WWW.CLARKDIETRICH.COM. 2. CEMCO: WWW.CEMCOSTEEL.COM. 3. JAIMES INDUSTRIES: WWW.JAIMESIND.COM 4. STEEL CONSTRUCTION SYSTEMS: WWW.STEELCONSYSTEMS.COM

REQUIRING SPECIAL ATTENTION.

WALLCOVERING)

 FIRE RATED ASSEMBLIES: COMPLY WITH APPLICABLE CODE AND AS FOLLOWS: A. TOP OF FIRE RATED PARTITIONS: LISTED ASSEMBLY BY UL, NO. [ON DRAWINGS]; [1 AND 2] HOUR RATING. B. FIRE RATED SHAFT WALL REQUIREMENTS: LISTED ASSEMBLY BY UL, NO. [ON DRAWINGS]; [1] HOUR RATING.

2. NON-LOADBEARING FRAMING SYSTEM COMPONENTS: ASTM C645: GALVANIZED SHEET STEEL. OF SIZE AND PROPERTIES NECESSARY TO COMPLY WITH ASTM C754 FOR THE SPACING INDICATED, WITH MAXIMUM DEFLECTION OF WALL FRAMING OF L/240 AT 5 PSF. A. TRACKS AND RUNNERS: SAME MATERIAL AND THICKNESS AS STUDS, BENT LEG RETAINER NOTCHED TO RECEIVE

STUDS WITH PROVISION FOR CRIMP LOCKING TO STUD. STUDS: C SHAPED WITH FLAT OR FORMED WEBS WITH KNURLED FACES B. CEILING CHANNELS: C SHAPED. C. FURRING: HAT-SHAPED SECTIONS, MINIMUM DEPTH OF 7/8 INCH.

D. CONTRACTOR TO PROVIDE BRACING AS REQUIRED TO COMPLETE SYSTEM. F. WHERE INDICATED IN DRAWINGS, SHAFT WALL STUDS AND ACCESSORIES: ASTM C645; GALVANIZED SHEET STEEL, OF SIZE AND PROPERTIES NECESSARY TO COMPLY WITH ASTM C754 AND SPECIFIED PERFORMANCE REQUIREMENTS G. CEILING HANGERS: TYPE AND SIZE AS SPECIFIED IN ASTM C754 FOR SPACING REQUIRED H. PARTITION HEAD TO STRUCTURE CONNECTIONS: PROVIDE MECHANICAL ANCHORAGE DEVICES THAT ACCOMMODATE DEFLECTION USING SLOTTED HOLES, SCREWS AND ANTI-FRICTION BUSHINGS, PREVENTING ROTATION OF STUDS WHILE MAINTAINING STRUCTURAL PERFORMANCE OF PARTITION.

I. FIT, REINFORCE, AND BRACE FRAMING MEMBERS TO SUIT DESIGN REQUIREMENTS. 1.COMPLY WITH REQUIREMENTS OF ASTM C754. 2. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.

3. VERIFY THAT ROUGH-IN UTILITIES ARE IN PROPER LOCATION. 4.EXTEND PARTITION FRAMING TO STRUCTURE WHERE INDICATED AND TO CEILING IN OTHER LOCATIONS. 5. PARTITIONS TERMINATING AT CEILING: ATTACH CEILING RUNNER SECURELY TO CEILING TRACK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

6.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. 7.FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS TO SAME SPACING AS WALL STUDS. 8. ALIGN STUD WEB OPENINGS HORIZONTALLY. 9. SECURE STUDS TO TRACKS USING CRIMPING METHOD. DO NOT WELD.

10. STUD SPLICING IS NOT PERMISSIBLE. 11. FABRICATE CORNERS USING A MINIMUM OF THREE STUDS. 12. DOUBLE STUD AT WALL OPENINGS, DOOR AND WINDOW JAMBS, NOT MORE THAN 2 INCHES FROM EACH SIDE OF

13. BRACE STUD FRAMING SYSTEM RIGID. 14. COORDINATE ERECTION OF STUDS WITH REQUIREMENTS OF DOOR FRAMES; INSTALL SUPPORTS AND ATTACHMENTS 15. COORDINATE INSTALLATION OF BUCKS, ANCHORS, AND BLOCKING WITH ELECTRICAL, MECHANICAL, AND OTHER WORK TO BE PLACED WITHIN OR BEHIND STUD FRAMING.

16. BLOCKING: USE WOOD BLOCKING SECURED TO STUDS. PROVIDE BLOCKING FOR SUPPORT OF PLUMBING FIXTURES, WALL CABINETS, TOILET ACCESSORIES, HARDWARE, AND OPENING FRAMES.

EACH TILE SPECIFIED FOR VERIFICATION PURPOSES. B. <u>ATTIC STOCK:</u> FURNISH 2% OF EACH TYPE OF CERAMIC TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.

A. SUBMITTALS: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF

C. <u>BASIS OF DESIGN</u>: SEE DRAWING SCHEDULES. D. <u>TILE:</u> COMPLY WITH STANDARD GRADE REQUIREMENTS IN ANSI A137.1 "SPECIFICATIONS FOR CERAMIC

TILE" FOR PRODUCTS AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS.

A. TYPICAL INTERIOR INSTALLATIONS: LATEX/POLYMER MODIFIED PORTLAND CEMENT COMPLYING WITH ANSI A108.5 AND ANSI 118.4. 2. GROUT:UNSANDED FOR JOINTS 1/16" WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN 1/16" IN COLOR INDICATED IN SCHEDULE OR TO BE SELECTED BY ARCHITECT AND OWNER. A. TYPICAL INTERIOR INSTALLATIONS: STANDARD CEMENT GROUT WITH INTEGRAL STAIN INHIBITORS (TEC ACCUCOLOR XT, OR EQUAL) 3. SETTING BED ACCESSORIES: ANSI A 108.1A

F. INSTALLATION METHODS: COMPLY WITH TILE INSTALLATION STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" AND TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" THAT APPLY TO THE MATERIALS AND METHODS INDICATED BELOW:

1. WHERE CUT TILE IS SPECIFIED AS THE TOP COURSE ON WALL WAINSCOTING OR WALL BASE WITH AN EXPOSED TOP EDGE, THE FACTORY EDGE SHALL BE USED AS THE EXPOSED EDGE.

H. <u>CONFLICTS:</u> IF NOT ADDRESSED ON DRAWINGS, WHERE ELECTRICAL DEVICES OR TOILET ACCESSORIES STRADDLE THE TRANSITION FROM THE TOP EDGE OF WAINSCOT WALL TILE TO GYPSUM BOARD SUBSTRATE, CONTACT ARCHITECT FOR RESOLUTION.

1. JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE AND AS RECOMMENDED BY THE MFR. BASED ON THE TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED

OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION.

QUALITY PENETRATING SILICONE SEALER.

2. TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE, UNLESS INDICATED OTHERWISE. 3. INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING CARE TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED

4. SEALER: AFTER FULLY CURED, GROUT SHALL BE SEALED WITH TWO (2) COATS OF COMMERCIAL

7. PRIMED HARDWOOD DOORS.

NOT LESS

9. ANY OTHER PAINTING WORK REQUIRED BY THE DRAWINGS.

09 5100 - ACOUSTICAL CEILINGS A. <u>SUBMITTALS</u>: PRODUCT DATA ONLY

B. ATTIC STOCK: FURNISH 2% OF EACH TYPE OF CEILING TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.

C. <u>ACOUSTICAL TILE PRODUCTS</u>: PROVIDE CEILING TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM E 1264, CLASS A MATERIALS, TESTED PER ASTM

D. <u>SUSPENSION SYSTEM:</u> PROVIDE HEAVY DUTY, DIRECT-HUNG, SUSPENSION SYSTEMS AS INDICATED IN HE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM C 635. FURNISH ALUMINUM GRID IN SHOWERS, KITCHENS, AND OTHER HIGH-HUMIDITY AREAS. 1. ATTACHMENT DEVICES: SIZE FOR FIVE (5) TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, DIRECT HUNG UNLESS OTHERWISE INDICATED. 2. WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/ (A 641 M), CLASS 1 ZINC COATING, SOFT TEMPER WITH A YIELD STRENGTH AT LEAST THREE (3) TIMES THE HANGER DESIGN LOAD (ASTM C 635, TABLE 1, DIRECT HUNG), BUT NOT LESS THAN 0.135"

DIAMETER WIRE. 3. SEISMIC STRUTS: MANUFACTURER'S STANDARD PRODUCT DESIGNED TO ACCOMMODATE SEISMIC FORCES 4. HOLD-DOWN CLIPS: PROVIDE HOLD-DOWN CLIPS ON CEILING TILE IN ENTRANCE VESTIBULES, COMPUTER ROOMS EMPLOYING DRY CHEMICAL FIRE-SUPPRESSION SYSTEMS, AND OTHER AREAS AS INDICATED.

. INSTALLATION: COMPLY WITH ASTM C 636 AND CISCA'S "CEILING SYSTEMS HANDBOOK". 1. SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATION ACTIVITIES HAVE TERMINATED, AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED 2. INSTALL CEILING GRID AS INDICATED TO BE SYMMETRICAL ABOUT BOTH AXES OF EACH ROOM USING NOT LESS THAN HALF-SIZE TILE UNLESS INDICATED OTHERWISE ON THE REFLECTED

3. SUPPORT SUSPENSION SYSTEM INDEPENDENTLY OF DUCTS, PIPES, AND CONDUITS. 4. SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6" OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY. 5. PROVIDE MATCHING PERIMETER MOLDING INSTALLED IN BEAD OF ACOUSTICAL SEALANT AT ALL LOCATIONS WHERE CEILING INTERSECTS VERTICAL SURFACES. USE MATCHING PRE-FORMED CLOSURES AT ROUND OR CURVED OBSTRUCTIONS

09 6500 - RESILIENT WALL BASE A. <u>SUBMITTALS</u>: PRODUCT DATA AND (1) SAMPLES OF EACH BASE SPECIFIED FOR VERIFICATION PURPOSES.

6. FIELD-CUT EDGES SHALL MATCH PROFILE OF FACTORY EDGES.

EXPOSED AS INDICATED IN THE FINISH SCHEDULE.

1. TARKETT OR APPROVED EQUAL.

C. <u>ATTIC STOCK</u>: FURNISH 20' OF EACH COLOR AND TYPE OF WALL BASE PACKAGED WITH PROTECTIVE OVERING AND LABELED FOR STORAGE.

D. RESILIENT WALL BASE: ASTM TYPE TS (RUBBER, VULCANIZED THERMOSET) 1/4" THICK, FURNISHED IN COILS IN STYLES AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS WITH JOB-FORMED INSIDE AND OUTSIDE CORNERS.

E. INSTALLATION ACCESSORIES 1. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF MATERIALS BEFORE INITIAL SET.

. CONFIRM THAT SOLID BACKING IS PROVIDED BEHIND ALL WALL BASE. AREAS WHERE GYPSUM BOARD IS HELD MORE THAN 1/2" ABOVE SLAB SHALL BE FILLED IN PRIOR TO BASE INSTALLATION. 2. INSTALL WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE IN MAXIMUM LENGTHS POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT 3. INSTALL TRANSITION STRIPS WHERE FLOORING MATERIALS MEET OR WHERE EDGE OF TILE IS

09 9000 - PAINTING AND COATING A. <u>SUBMITTALS:</u> PRODUCT DATA AND THREE (3) DRAW-DOWN SAMPLES OF EACH COLOR AND SHEEN

B. ATTIC STOCK: FURNISH ONE (1) GALLON OF EACH PAINT COLOR AND SHEEN, IN CONTAINERS,

PROPERLY LABELED AND SEALED. PRODUCTS: PROVIDE MANUFACTURER'S BEST QUALITY PAINTS OF COLOR AND SHEEN AS INDICATED IN THE CONSTRUCTION DOCUMENTS THAT ARE FORMULATED AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.

D. PAINT SYSTEMS:1. ALL PAINT, STAIN, AND VARNISH SHALL BE PRODUCTS OF DEVOE, KWAL, SHERWIN WILLIAMS, PPG INDUSTRIES, PRATT & LAMBERT OR APPROVED EQUAL. 2. ALL MATERIAL SHALL BE OF THE STANDARD RESIDENTIAL GRADE OF THE TYPES DESIGNATED. 3. ALL MATERIAL SHALL BE DELIVERED TO THE JOB SITE IN THE ORIGINAL, UNOPENED, LABELED CONTAINERS. COLORS NOT SPECIFICALLY CALLED FOR IN THE PAINT SCHEDULE WILL BE SELECTED BY THE ARCHITECT.

1. EQUIPMENT: APPLY COATINGS BY BRUSH, ROLLER, SPRAY, OR OTHER APPLICATORS ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. WHEN SPRAYED,

EXTERIOR COATINGS SHALL BE BACK-ROLLED FOLLOWING SPRAY APPLICATION. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS. 2. PREPARE CONCRETE MASONRY BLOCK TO BE COATED. REMOVE EFFLORESCENCE, CHALK, DUST, DIRT, GREASE, OILS, AND RELEASE AGENTS. ROUGHEN AS REQUIRED TO REMOVE GLAZE. IF HARDENERS OR SEALERS HAVE BEEN USED TO IMPROVE CURING, USE MECHANICAL METHODS TO PREPARE SURFACES. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE. PROVIDE A FINISH FREE OF CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR OTHER SURFACE

IMPERFECTIONS. 4. APPLY PRODUCTS PER MANUFACTURER RECOMMENDED GUIDELINES. PRODUCT COVERAGE MINIMUM ONE COAT OF PRIMER AND TWO FINAL COATS ON MATERIALS.APPLY PRODUCTS TO MATERIALS APPROVED BY MANUFCTURER PRODUCT DATA SHEETS.

ONE COAT COMMERCIAL METAL ETCH.

ONE COAT EXTERIOR METAL PRIMER.

TWO COATS SEMI-GLOSS METAL PAINT.

EXTERIOR 100% SATIN OR SEMI-GLOSS

ONE COAT PRIMER. TWO COATS EXTERIOR

PATCH DENTS, TOUCH UP PRIMER. TWO

COATS OF OIL BASE SEMI-GLOSS PAINT

ONE COAT OF PRIME LATEX PAINT AND

PAINT. (TWO COATS IF REQUIRED TO

ONE COAT OF PRIME LATEX PAINT AND

TO ACHIEVE FULL COVERAGE.)

ONE FINISH COAT OF SCRUBABLE LATEX

FLAT WALL PAINT. (TWO COATS IF REQUIRED

BLOCK FILLER: PPG PAINTS; 6-15XI SPEEDHIDE

THAN 7.0 MILS.

TWO COATS OF CLASS II VAPOR RETARDER.

TWO COATS OF LATEX FLAT PAINT.

ONE PRIME COAT OF LATEX PAINT, ONE

COAT LATEX PAINT AND ONE FINISH COAT

INTERIOR/EXTERIOR HI FILL ACRYLIC MASONRY BLOCK

TWO FINISH COATS ACRYLIC EGGSHELL FINISH OVER

PRIMER. APPLIED AT A DRY FILM THICKNESS OF

ACHIEVE FULL COVERAGE.)

COVERAGE.)

ONE FINISH COAT OF LATEX EGGSHELL WALL

ONE FINISH COAT OF EPOXY EGGSHELL WALL

PAINT. (TWO COATS IF REQUIRED TO ACHIEVE FULL

ONE COAT OF EPOXY COMPATABLE PRIMER PAINT AND

TWO COATS TO MATCH ADJACENT

ACRYLIC LATEX PAINT.

HEAVY BODIED STAIN.

INSIDE AND OUTSIDE.

SURFACES.

PRIME AND BACK LATEX PRIMER.

(PRIME COAT SURFACES THAT ARE NOT PRIMED.)

A. Exterior Work:

1. ALL EXTERIOR GALVANIZED METAL FLASHINGS, CONNECTORS, ETC.

TWO COATS EXTERIOR SEMI-GLOSS METAL PAINT. 2. ALL EXPOSED STEEL FRAMES, ANGLES, TWO COATS SEMI-GLOSS METAL PAINT. (PRIME COAT CHANNELS, POSTS, RAILINGS, BEAMS, ETC. SURFACES THAT ARE NOT PRIMED.)

INCLUDING RAILS, PLATES, ANGLES, BOLTS, GRATES, CONDUITS, POSTS, PIPING, ETC. 4. ALL UNPRIMED EXTERIOR MILLWORK, TRIM, SMOOTH WOOD MATERIALS, ETC.

3. ALL EXPOSED MISC. FERROUS METAL ITEMS

TWO COATS OF EXTERIOR LATEX SATIN OR SEMI-GLOSS PAINT. 5. PRIMED MILLWORK AND TRIM. TOUCH-UP PRIME. TWO COATS OF

6. ROUGH SAWN TRIM, BEAMS, COLUMNS,

7. PRIMED METAL ENTRY DOORS, FRENCH DOORS AND METAL FRAMES, GARAGE DOORS. 8. ANY OTHER PAINTING REQUIRED BY

THE DRAWINGS. B. INTERIOR WORK:

1. GYPSUM BOARD WALLS EXCEPT IN KITCHENS, BATHROOMS, LAUNDRIES AND COMMON AREA CORRIDORS, UNLESS SCHEDULED FOR WALLCOVERING 2. GYPSUM BOARD WALLS IN KITCHENS,

SCHEDULED FOR WALLCOVERING OR TILE. 3. GYPSUM BOARD WALLS IN COMMON

BATHROOMS AND LAUNDRIES UNLESS

4. (CMU) - CONCRETE MASONRY UNIT WALLS.

PRIMER. GYPSUM BOARD CEILINGS.

6. DOOR CASINGS, BASE, WOOD, MILL-WORK, ETC. (PRE-PRIMED.)

8. ALL MISCELLANEOUS FERROUS METAL INCLUDING GRILLES, REGISTERS, ETC.

OF LATEX SEMI-GLOSS PAINT. ONE COAT OF LATEX PAINT AND ONE FINISH COAT OF LATEX SEMI-GLOSS PAINT. TWO COATS METAL PAINT TO MATCH ADJACENT SURFACES UNLESS FACTORY

PREFINISHED WHITE FINISH TO MATCH SIMILAR CONDITIONS. **DIVISION 10 - SPECIALTIES**

10 2800 TOILET AND BATH ACCESSORIES A. REFERENCE CONSTRUCTION DRAWINGS & SCHEDULES FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET

B. <u>SUBMITTALS</u>
1. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING: 2. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS. 3. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS. 4. INSTALLATION METHODS.

1. INSTALLER MUST EXAMINE SUBSTRATES, PREVIOUSLY INSTALLED INSERTS AND ANCHORAGES NECESSARY FOR MOUNTING OF TOILET ACCESSORIES. AND OTHER CONDITIONS UNDER WHICH INSTALLATION IS TO OCCUR, AND MUST NOTIFY CONTRACTOR IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER. 2. INSTALL ACCESSORIES ACCORDING TO RESPECTIVE MANUFACTURERS' WRITTEN INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER. I NSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.

INSTALLATIONS ARE NOT PERMITTED. 3. MOUNTING HEIGHTS SHALL BE AS RECOMMENDED BY THE ACCESSORY MANUFACTURER AND AT HEIGHTS RECOMMENDED BY USE FOR PHYSICALLY HANDICAPPED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. 4. GRAB BARS: INSTALL TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBF, WHEN TESTED ACCORDING TO ASTM F 446.

5. ADJUST ACCESSORIES FOR PROPER OPERATION AND VERIFY THAT MECHANISMS FUNCTION SMOOTHLY.

10 3000 SOLID PLASTIC TOILET COMPARTMENTS A. REFERENCE CONSTRUCTION DRAWINGS & SCHEDULES FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET AND BATH ACCESSORIES.

6. CLEAN AND POLISH ALL EXPOSED SURFACES AFTER REMOVING PROTECTIVE COATINGS.

BASIS OF DESIGN: ECLIPSE TOILET PARTITIONS AS MANUFACTURED BY AND SUPPLIED BY SCRANTON 1. STYLE: FLOOR MOUNTED OVERHEAD-BRACED TOILET COMPARTMENTS. DOORS AND PANELS: HIGH DENSITY POLYETHYLENE (HDPE), FABRICATED FROM SEQ CHAPTER 1 EXTRUDED POLYMER RESINS, FORMING SINGLE THICKNESS PANEL. A. WATERPROOF AND NONABSORBENT, WITH SELF-LUBRICATING SURFACE, RESISTANT TO MARKS BY PENS, PENCILS, MARKERS, AND OTHER WRITING INSTRUMENTS. B. THICKNESS: 1 INCH (25 MM). C. EDGES: SHIPLAP.

3. PANEL COLOR: TRADITIONAL SERIES:1. SHALE - ORANGE PEEL. 4. DOORS AND PANELS: HIGH PRIVACY: HEIGHT: 62 INCHES (1575 MM) HIGH AND MOUNTED AT 8 TO 14 INCHES (203 TO 356 MM) ABOVE THE FINISHED FLOOR.

1. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING: 2. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS. 3. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.

5. SHOP DRAWINGS: PROVIDE LAYOUT DRAWINGS AND INSTALLATION DETAILS WITH LOCATION AND TYPE OF HARDWARE REQUIRED. 6. SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND PATTERNS.

1. METAL POSTS: 82.75 INCHES (2102 MM) HIGH, HEAVY DUTY EXTRUDED ALUMINUM, CLEAR ANODIZED FINISH, FASTENED TO FOOT WITH STAINLESS STEEL TAMPER RESISTANT SCREW. 2. HIDDEN SHOE (FOOT): ONE-PIECE MOLDED POLYETHYLENE INVISIBLE SHOE INSERTED INTO METAL POST AND SECURED TO METAL POST WITH STAINLESS STEEL TAMPER RESISTANT SCREW. 3. HEADRAIL CAP AND CORNER CAP: ONE-PIECE MOLDED POLYETHYLENE SECURED TO METAL POST WITH STAINLESS STEEL TAMPER RESISTANT SCREW; ADJUSTABLE TO LEVEL HEADRAIL TO FINISHED FLOOR. 4. WALL BRACKETS: CONTINUOUS HEAVY DUTY EXTRUDED ALUMINUM, CLEAR ANODIZED FINISH, INSERTED INTO SLOTTED PANEL AND FASTENED TO PANELS WITH STAINLESS STEEL TAMPER RESISTANT SCREWS. 5. HEADRAIL: HEAVY DUTY EXTRUDED ALUMINUM, CLEAR ANODIZED FINISH, SECURED TO WALL WITH STAINLESS STEEL TAMPER SCREWS.

6. DOOR HARDWARE: A. HINGES: EDGE-MOUNTED HELIX STYLE STAINLESS STEEL CONTINUOUS HINGE. CLOSING DEGREE: 5 DEGREES. COMES TO A FULL CLOSE ON ITS OWN WEIGHT. B.OCCUPANCY INDICATOR LATCH AND HOUSING: MATERIAL: SATIN STAINLESS STEEL. OCCUPANCY INDICATORS: GREEN FOR OCCUPIED AND RED NOT OCCUPIED. SLIDE BOLT AND BUTTON. C.COAT HOOK AND DOOR BUMPER COMBINATION: MATERIAL: CHROME PLATED ZAMAK. HANDICAP DOOR: EQUIP WITH SECOND DOOR PULL AND DOOR STOP. D. DOOR PULLS: CHROME PLATED ZAMAK:

1. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.

2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS. 3. INSTALL PARTITIONS RIGID, STRAIGHT, PLUMB, AND LEVEL. 4. LOCATE BOTTOM EDGE OF DOORS AND PANELS INCHES ABOVE FINISHED FLOOR. 5. CLEARANCE AT VERTICAL EDGES OF DOORS SHALL BE UNIFORM TOP TO BOTTOM AND SHALL NOT EXCEED 3/8 INCH (9.5 MM). 6. NO EVIDENCE OF CUTTING, DRILLING, AND/OR PATCHING SHALL BE VISIBLE ON THE FINISHED WORK. 7. FINISHED SURFACES SHALL BE CLEANED AFTER INSTALLATION AND BE LEFT FREE OF IMPERFECTIONS. 8. ADJUST DOORS AND LATCHES TO OPERATE CORRECTLY. 9. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.

10. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION. 10 4400 - FIRE PROTECTION SPECIALTIES A. REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, SIZE AND LOCATIONS OF FIRE EXTINGUISHERS AND CABINETS.

DIVISION 11 - EQUIPMENT

4. INSTALLATION METHODS.

A. REFERENCE CONSTRUCTION DRAWINGS FOR QUANTITY, AND LOCATION OF APPLIANCES TO BE FURNISHED BY OWNER. **DIVISION 12 - FURNISHINGS**

A. REFERENCE CONSTRUCTION DRAWINGS & SCHEDULES FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET AND BATH B. SUBMITTALS: INCLUDE PLANS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK:

1. PRODUCT DATA :FOR EACH STONE, STONE ACCESSORY, AND MANUFACTURED PRODUCT.

2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.

3. SAMPLES: FOR EACH STONE TYPE INDICATED. 1. FIELD MEASUREMENTS: VERIFY DIMENSIONS OF CONSTRUCTION TO RECEIVE STONE COUNTERTOPS BY

FIELD MEASUREMENTS BEFORE FABRICATION. 1. SOURCE LIMITATIONS FOR STONE: OBTAIN FROM A SINGLE SOURCE TO PROVIDE MATERIALS OF CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES.

1. QUALITY STANDARD: PREMIUM GRADE, IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS), UNLESS NOTED OTHERWISE. 2. QUALITY STANDARD: SEFA 3 FOR LABORATORY WORKSURFACES. 3. PLASTIC LAMINATE COUNTERTOPS: HIGH-PRESSURE DECORATIVE LAMINATE (HPDL) SHEET BONDED TO SUBSTRATE

A. LAMINATE SHEET: NEMA LD 3, GRADE HGS, 0.048 INCH NOMINAL THICKNESS. B. EXPOSED EDGE TREATMENT: AS NOTED, SUBSTRATE BUILT UP TO MINIMUM 1-1/4 INCH THICK; COVERED WITH MATCHING LAMINATE. C. BACK AND END SPLASHES: SAME MATERIAL, SAME CONSTRUCTION. D. FABRICATE IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS),

MANUFACTURERS:

SECTION 11 - COUNTERTOPS, CUSTOM GRADE.

D. FINISH ON EXPOSED SURFACES: POLISHED.

MANUFACTURER'S WRITTEN INSTRUCTIONS.

EPOXY ADHESIVE.

E. COLOR AND PATTERN: AS INDICATED ON DRAWINGS.

1. REFER TO FINISH LEGEND. 4. NATURAL QUARTZ AND RESIN COMPOSITE COUNTERTOPS: SHEET OR SLAB OF NATURAL QUARTZ AND PLASTIC RESIN OVER CONTINUOUS SUBSTRATE. A. FLAT SHEET THICKNESS: 1-1/4 INCH, MINIMUM.

CONSISTENT THROUGHOUT THICKNESS.

B. NATURAL QUARTZ AND RESIN COMPOSITE SHEETS, SLABS AND CASTINGS: COMPLYING

WITH ISFA 3-01 AND NEMA LD 3: ORTHOPHTHALIC POLYESTER RESIN. MINERAL FILLER. AND

PIGMENTS; HOMOGENOUS, NON-POROUS AND CAPABLE OF BEING WORKED AND REPAIRED

USING STANDARD WOODWORKING TOOLS: NO SURFACE COATING: COLOR AND PATTERN

1. REFER TO FINISH LEGEND FOR SOLID SURFACE AND CORIAN QUARTZ DESCRIPTIONS, MANUFACTURERS, PRODUCT NUMBERS, COLORS, SIZES AND CONTACT INFORMATION. C. FACTORY FABRICATE COMPONENTS TO THE GREATEST EXTENT PRACTICAL IN SIZES AND SHAPES INDICATED; COMPLY WITH THE MIA DIMENSION STONE DESIGN MANUAL.

1. SECURELY ATTACH COUNTERTOPS TO CABINETS OR SUPPORTS USING CONCEALED FASTENERS. MAKE FLAT SURFACES LEVEL: SHIM WHERE REQUIRED. 2. ATTACH PLASTIC LAMINATE COUNTERTOPS USING SCREWS WITH MINIMUM PENETRATION INTO SUBSTRATE BOARD OF 5/8 INCH. 3. SEAL JOINT BETWEEN BACK/END SPLASHES AND VERTICAL SURFACES. 4. GENERAL: INSTALL COUNTERTOPS OVER PLYWOOD SUBTOPS WITH FULL SPREAD OF WATER CLEANABLE

5. GENERAL: INSTALL COUNTERTOPS BY ADHERING TO SUPPORTS WITH WATER CLEANABLE EPOXY 6. SET STONE TO COMPLY WITH REQUIREMENTS INDICATED. SHIM AND ADJUST STONE TO LOCATIONS INDICATED, WITH UNIFORM JOINTS OF WIDTHS INDICATED AND WITH EDGES AND FACES ALIGNED ACCORDING TO ESTABLISHED RELATIONSHIPS.

7. SPACE JOINTS WITH 1/16. INCH GAP FOR FILLING WITH SEALANT. USE TEMPORARY SHIMS TO ENSURE UNIFORM SPACING. CLAMP UNITS TO TEMPORARY BRACING, SUPPORTS, OR EACH OTHER TO ENSURE THAT COUNTERTOPS ARE PROPERLY ALIGNED AND JOINTS ARE OF SPECIFIED WIDTH. 8. COMPLETE CUTOUTS NOT FINISHED IN SHOP. MASK AREAS OF COUNTERTOPS ADJACENT TO CUTOUTS TO PREVENT DAMAGE WHILE CUTTING. USE POWER SAWS WITH DIAMOND BLADES TO CUT STONE. MAKE CUTOUTS TO ACCURATELY FIT ITEMS TO BE INSTALLED, AND AT RIGHT ANGLES TO FINISHED SURFACES UNLESS BEVELING IS REQUIRED FOR CLEARANCE. EASE EDGES SLIGHTLY TO PREVENT SNIPPING.

9. INSTALL BACKSPLASHES AND END SPLASHES BY ADHERING TO WALL WITH WATER • CLEANABLE EPOXY

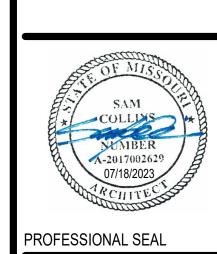
ADHESIVE. LEAVE 1/16 INCH GAP BETWEEN COUNTERTOP AND SPLASHES FOR FILLING WITH SEALANT.

USE TEMPORARY SHIMS TO ENSURE UNIFORM SPACING. 10. GROUT JOINTS TO COMPLY WITH ANSI A108.10. REMOVE TEMPORARY SHIMS BEFORE GROUTING. TOOL GROUT UNIFORMLY AND SMOOTHLY WITH PLASTIC TOOL. 11. APPLY SEALANT TO JOINTS AND GAPS SPECIFIED FOR FILLING WITH SEALANT; COMPLY WITH SECTION 079200 "JOINT SEALANTS." REMOVE TEMPORARY SHIMS BEFORE APPLYING SEALANT. 12. ASSURE THAT SEAMS ARE SMOOTH, LEVEL AND TIGHT. SEAMS SHALL BE FILLED ENTIRELY SO FLUSH WITH

COUNTERTOP, POLISH SURFACE AT SEAM, ASSURE THAT FILLER IS "NON. YELLOWING." 13. CLEANING: CLEAN COUNTERTOPS AS WORK PROGRESSES. REMOVE ADHESIVE, GROUT, MORTAR, AND SEALANT SMEARS IMMEDIATELY. CLEAN STONE COUNTERTOPS NO FEWER THAN SIX DAYS AFTER COMPLETION OF INSTALLATION, USING CLEAN WATER AND SOFT RAGS. DO NOT USE WIRE BRUSHES, ACID TYPE CLEANING AGENTS, CLEANING COMPOUNDS WITH CAUSTIC OR HARSH FILLERS, OR OTHER MATERIALS OR METHODS THAT COULD DAMAGE STONE. 14. SEALER APPLICATION: APPLY STONE SEALER TO COMPLY WITH STONE PRODUCER'S AND SEALER

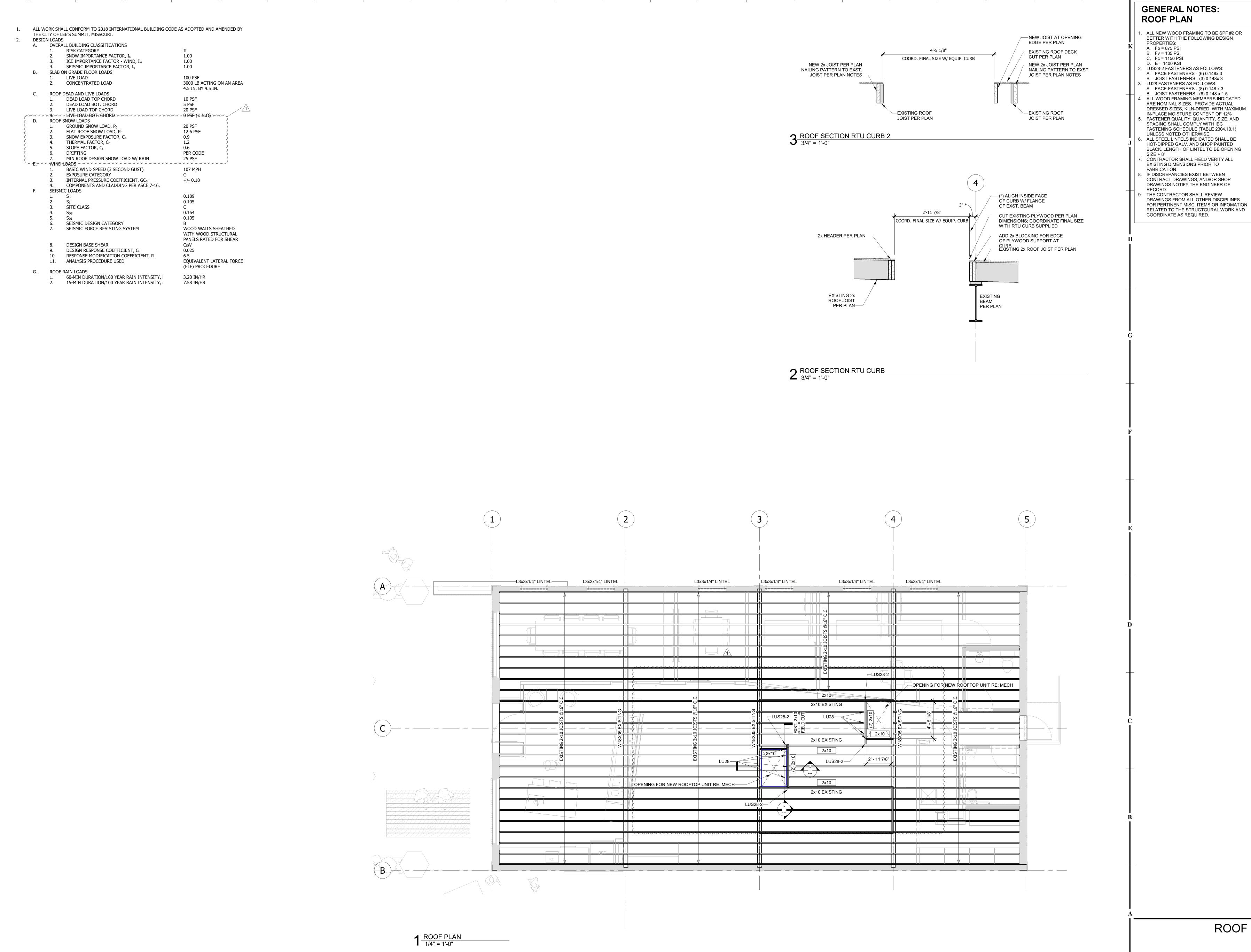
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COLLINS WEBB #: 23033

SPECIFICATIONS



GENERAL NOTES:

. ALL NEW WOOD FRAMING TO BE SPF #2 OR BETTER WITH THE FOLLOWING DESIGN

C. Fc = 1150 PSI D. E = 1400 KSI 2. LUS28-2 FASTENERS AS FOLLOWS:

A. FACE FASTENERS - (6) 0.148x 3 B. JOIST FASTENERS - (3) 0.148x 3 3. LU28 FASTENERS AS FOLLOWS: A. FACE FASTENERS - (8) 0.148 x 3 B. JOIST FASTENERS - (6) 0.148 x 1.5 4. ALL WOOD FRAMING MEMBERS INDICATED ARE NOMINAL SIZES. PROVIDE ACTUAL

DRESSED SIZES, KILN-DRIED, WITH MAXIMUM IN-PLACE MOISTURE CONTENT OF 12% . FASTENER QUALITY, QUANTITY, SIZE, AND SPACING SHALL COMPLY WITH IBC FASTENING SCHEDULE (TABLE 2304.10.1) UNLESS NOTED OTHERWISE.

6. ALL STEEL LINTELS INDICATED SHALL BE HOT-DIPPED GALV. AND SHOP PAINTED BLACK. LENGTH OF LINTEL TO BE OPENING . CONTRACTOR SHALL FIELD VERITY ALL EXISTING DIMENSIONS PRIOR TO

8. IF DISCREPANCIES EXIST BETWEEN CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF 9. THE CONTRACTOR SHALL REVIEW

DRAWINGS

CONSTRUCTION As Noted on Plans Review

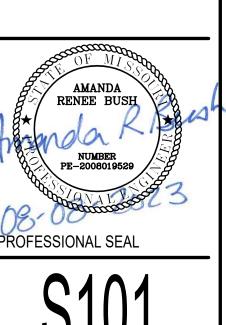
Lee's Summit, Missour 08/15/2023

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CITY COMMENTS &

REVISIONS



ROOF PLAN/DETAILS



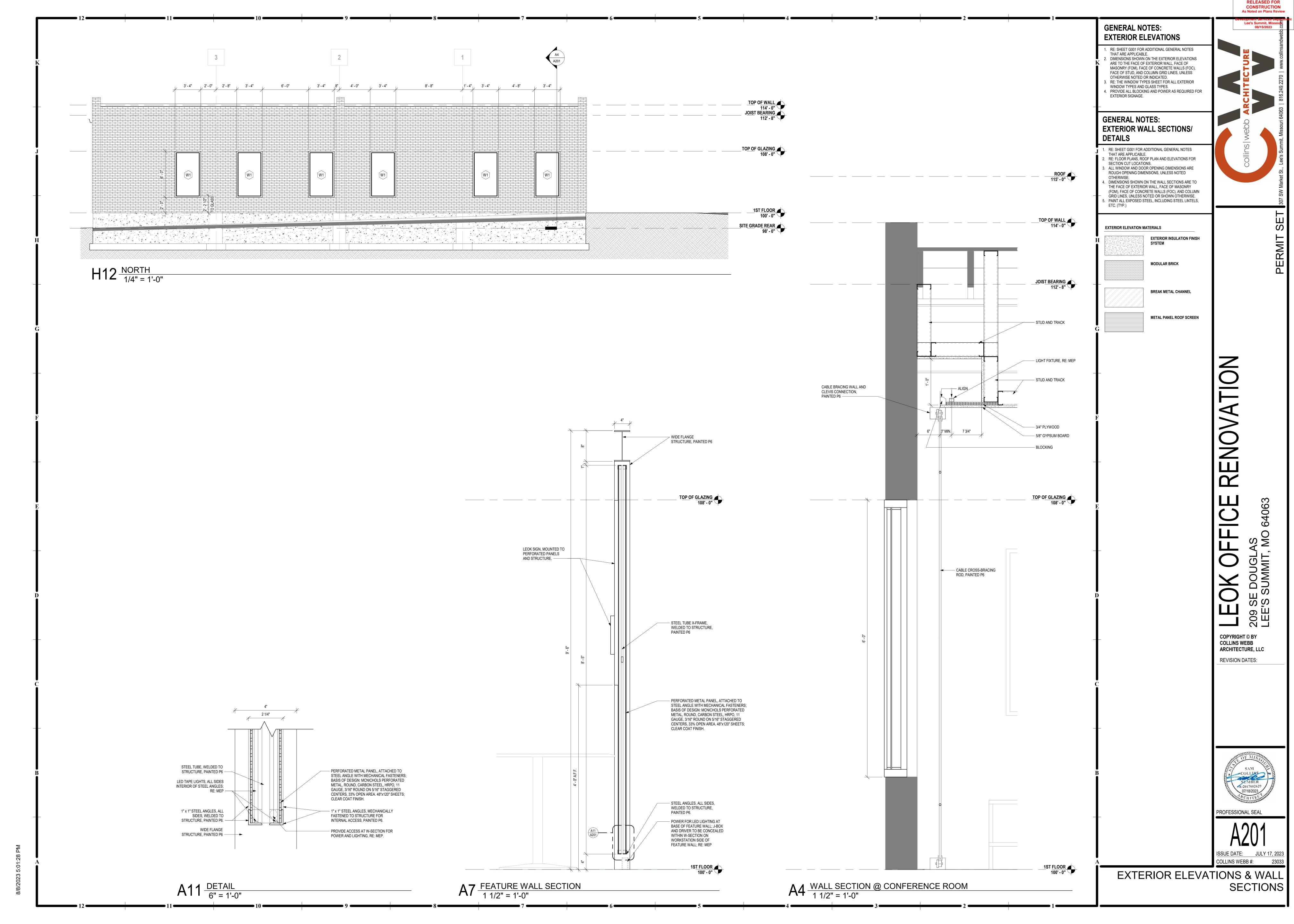
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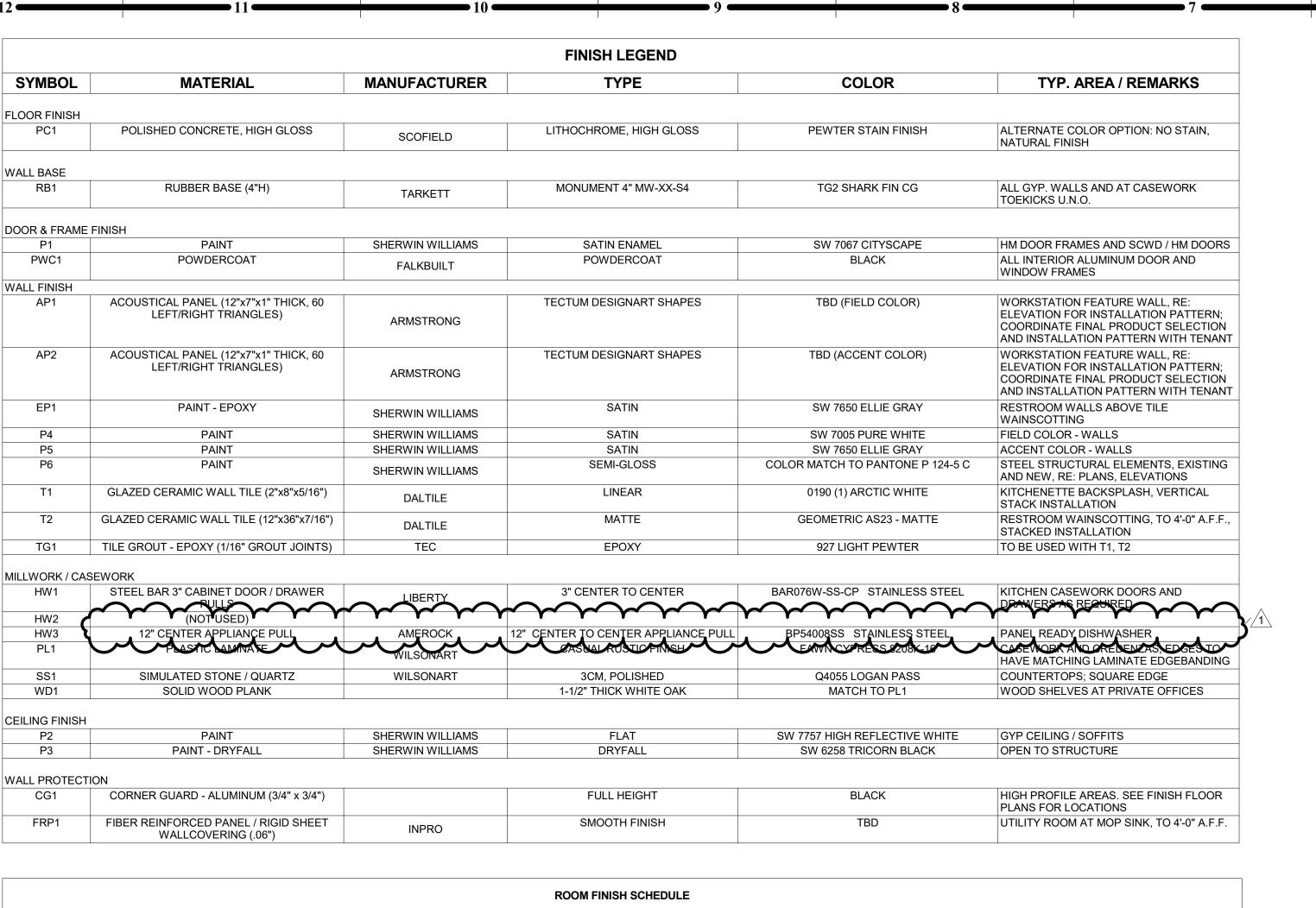
1 City Comments & 08.08.2023 VE Revisions



PROFESSIONAL SEAL

PLAN & RCP

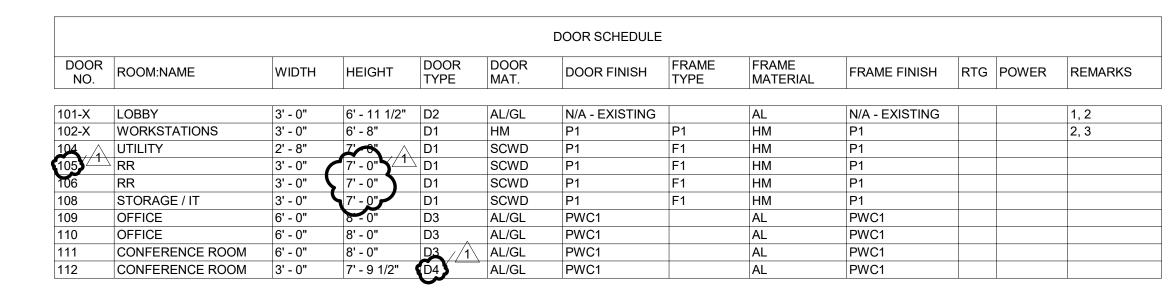




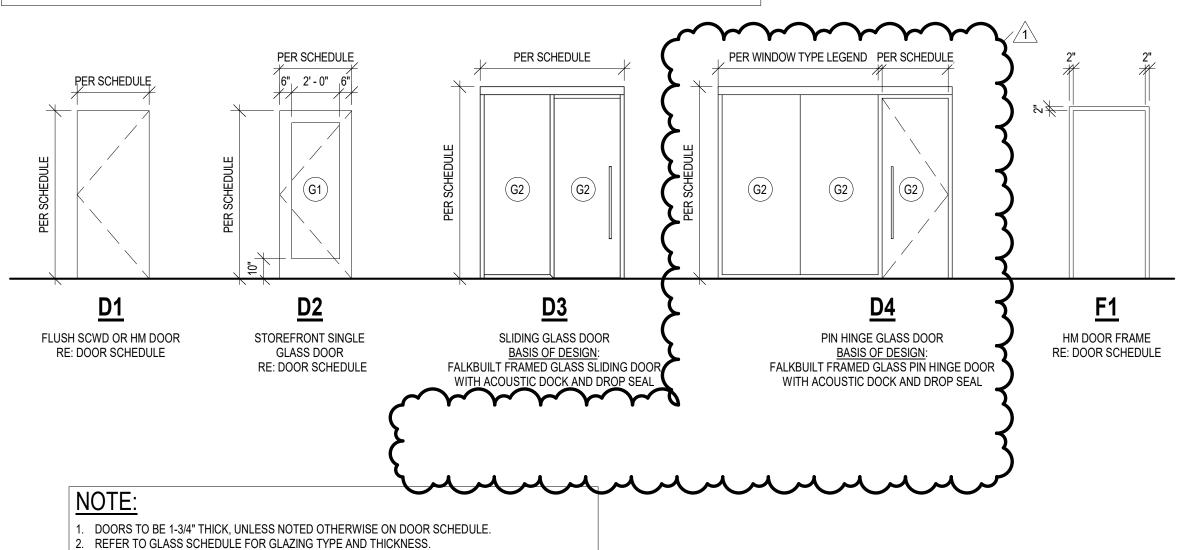
					ROOM	FINISH SCHEDULE						
		FLOC	RS		WAL	L FINISH			С	ASEWORK		
RM. NO.	ROOM NAME	FLOOR	WALL BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COUNTERTOP	BASE CABINET	UPPER CABINET	REMARKS
101	LOBBY	PC1	RB1	P3,P4,P6	P3,P4,P6	P3,T1	P3,P4,P6	P3	SS1	PL1	PL1	
102	WORKSTATIONS	PC1	RB1	P3,P4,P6	P3,P4,P6	P3, AP1, AP2	P3,P4,P6	P3	PL1	PL1	-	
103	COPY/FILE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3,P4	P3	SS1	PL1	PL1	
104	UTILITY	PC1	RB1	P3,P4	P3,P4	P3,P4, FRP1	P3,P4, FRP1	P3	-	-	-	1
105	RR	PC1	-	EP1, T2	EP1, T2	EP1, T2	EP1, T2	P2	-	-	-	
106	RR	PC1	-	EP1, T2	EP1, T2	EP1, T2	EP1, T2	P2	-	-	-	
107	CLOSET	PC1	RB1	P3	P3	-	P3	P3	-	-	-	
108	STORAGE / IT	PC1	RB1	P3,P4	P3,P4	P3,P4	P3,P4	P3	-	-	-	
109	OFFICE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3,P4	P3	-	-	-	
110	OFFICE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3,P4	P3	-	-	-	
111	CONFERENCE ROOM	PC1	RB1	P3,P4	P3,P4	P3,P4	P3,P4	P3	-	-	-	
112	CONFERENCE ROOM	PC1	RB1	P3	P3	P3	P3	P2	PL1	PL1	-	

GENERAL NOTE:

FINISH MATERIALS TO BE PROCURRED FROM OWNER SELECTED / SPECIFIED VENDOR, AS LISTED ABOVE. ALTERNATES OR SUBSTITUTIONS WILL NOT BE ACCEPTED.

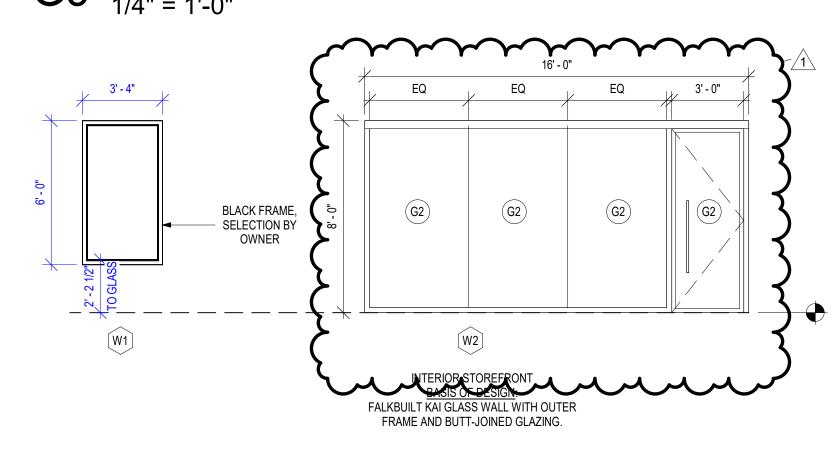


DOOR SCHEDULE REMARKS: I. EXISTING DOOR TO REMAIN. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION. 2. PROVIDE DOOR ACCESS SYSTEM; COORDINATE WITH OWNER TO INTEGRATE WITH SYSTEM AT ADJACENT SOUTH BUILDING GARAGE DOOR. 3. EXISTING DOOR AND FRAME TO BE REFINISHED; RE: FINISH LEGEND.



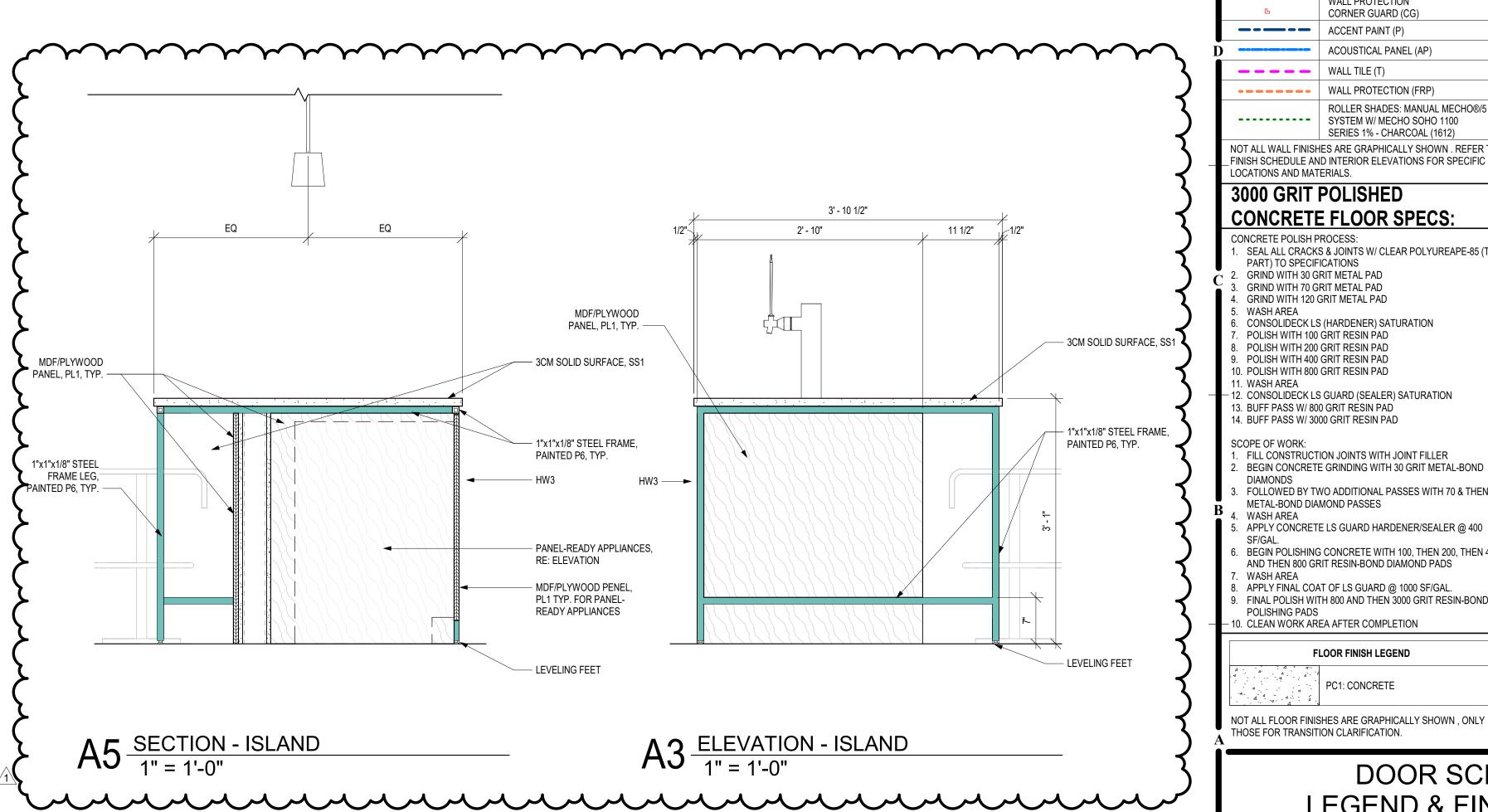
G5 DOOR & FRAME TYPE ELEVATIONS

1/4" = 1'-0"



E5 WINDOW TYPE LEGEND
1/4" = 1'-0"





GENERAL NOTES: DOOR SCHEDULE HM REFERS TO HOLLOW METAL

2. AL REFERS TO ALUMINUM 8. WD REFERS TO WOOD

4. SCWD REFERS TO SOLID CORE WOOD 5. ALL EXTERIOR ALUMINUM DOORS & FRAMES ARE TO BE FINISHED TO MATCH ADJACENT ALUMINUM WINDOW FRAME,

6. FOR FINISH COLOR DESIGNATION FOR INTERIOR DOOR AND FRAMES, REFER TO FINISH LEGEND. REFER TO SPECIFICATION FOR DOOR HARDWARE SET

CONSTRUCTION As Noted on Plans Review

DESIGNATIONS. 8. 2 HOUR FIRE BARRIED DOORS = 90 MINUTE RATING

1 HOUR FIRE BARRIED DOORS = 45 MINUTE RATING 1 HOUR SMOKE BARRIER = 20 MINUTE RATING PROTECT ALL DOORS & FRAMES FROM DAMAGE THROUGHOU CONSTRUCTION PHASES. 10. ALL EGRESS DOORS TO BE PROVIDED WITH PANIC HARDWA

GLASS TYPE LEGEND DESIGNATION DESCRIPTION NUMBER

" INSULATED TEMPERED GLAZING 1/4" TEMPERED GLAZING, CLEAR

GENERAL NOTES: INTERIOR FINISHES

RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.

. RE: G002 FOR ACCESSIBILITY GUIDELINES.

. RE: A700 SERIES SHEETS FOR ADDITIONAL WALL FINISH CLARIFICATION. HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH WHERE WALL COLOR IS DIFFERENT ON EACH SIDE OF THE HOLLOW METAL FRAME, PAINT FRAME TO MATCH CORRIDOR

CONTINUE WALL FINISH AS SCHEDULED BEHIND EQUIPMENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CASEWORK FABRICATION AND INSTALLATION. ALL EXPOSED CASEWORK SURFACES SHALL BE FINISHED PLASTIC LAMINATE AS SCHEDULED, U.N.O. . ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE

3MM PVC EDGEBANDING. 9. ALL BACKSPLASH MATERIAL SHALL MATCH COUNTERTOP 10. WHERE TWO MODULAR TILES (PORCELAIN, MARBLE, OR QUARRY) OF VARYING THICKNESSES MEET, THE SETTING BED FOR THE THINNER TILE SHALL BE BUILT UP TO ENSURE THAT THE FACES OF THE DIFFERENT TILES ARE FLUSH.

WALL, UNLESS NOTED OR SHOWN OTHERWISE.

TRANSITION ALL WALL FINISHES/COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE (U.N.O.) . TRANSITION WALL BASE AT INSIDE CORNERS, U.N.O. 13. INSTALL METAL TRANSITION STRIP WHERE WALL TILE MEETS PAINTED GYP. BD. WALL IN ALL VERTICAL AND/ OR HORIZONTAL CONDITIONS, U.N.O.

ROOM FINISH SCHEDULE REMARKS:

AREAS WITH MULTIPLE DESIGNATED FINISHES. RE: FINISH FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL CLARIFICATION.

1. PROVIDE FRP TO 4'-0" AFF.

GENERAL NOTES: FLOOR FINISH PLANS

. RE: SHEET G001-TI - FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. RE: FINISH LEGEND, FINISH SCHEDULE, AND FLOOR FINISH

PLANS FOR SPECIFIC FLOOR FINISH INFORMATION AND LOCATIONS FLOOR FINISHES SHOWN ARE FOR ACCENT CLARIFICATION ONLY. RE: FINISH SCHEDULE FOR ADDITIONAL INFORMATION. FLOOR FINISH PATTERN SHALL BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.

 ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE. FLOOR FINISH MATERIAL AND/ OR PATTERN SHALL BE INSTALLED UNDER TOE KICKS OF CASEWORK/MILLWORK, UNDER OPEN COUNTERTOPS, AND UNDER EQUIPMENT.

CHANGES, UNLESS NOTED OTHERWISE.

FLOOR MATERIAL/ COLOR TRANSITIONS TO ALIGN WITH ROOM SIDE OF DOOR STOP, UNLESS NOTED OR SHOWN INSTALL TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL

WALL FINISH / WALL PROTECTION PLANS:

. RE: G-SHEETS - FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE RE: FINISH LEGEND & FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION & LOCATIONS. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT I NOT LIMITED TO: HANDRAILS, POSTER CASES, TV MONITORS, BATHROOM ACCESSORIES, FIRE EXTINGUISHERS AND

EQUIPMENT. RE: ROUGH CARPENTRY SPECIFICATION SECTION FOR CLARIFICATION. CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION

ITEMS, UNLESS NOTED OTHERWISE. **WALL FINISH LEGEND** WALL PROTECTION CORNER GUARD (CG) ACCENT PAINT (P) ACOUSTICAL PANEL (AP)

WALL TILE (T) WALL PROTECTION (FRP) ROLLER SHADES: MANUAL MECHO®/5 SYSTEM W/ MECHO SOHO 1100 SERIES 1% - CHARCOAL (1612) NOT ALL WALL FINISHES ARE GRAPHICALLY SHOWN . REFER TO

LOCATIONS AND MATERIALS. 3000 GRIT POLISHED

CONCRETE FLOOR SPECS: CONCRETE POLISH PROCESS: . SEAL ALL CRACKS & JOINTS W/ CLEAR POLYUREAPE-85 (TWO PART) TO SPECIFICATIONS . GRIND WITH 30 GRIT METAL PAD

GRIND WITH 70 GRIT METAL PAD 4. GRIND WITH 120 GRIT METAL PAD 5. WASH AREA 6. CONSOLIDECK LS (HARDENER) SATURATION POLISH WITH 100 GRIT RESIN PAD 8. POLISH WITH 200 GRIT RESIN PAD

9. POLISH WITH 400 GRIT RESIN PAD 10. POLISH WITH 800 GRIT RESIN PAD - 12. CONSOLIDECK LS GUARD (SEALER) SATURATION 13. BUFF PASS W/ 800 GRIT RESIN PAD 14. BUFF PASS W/ 3000 GRIT RESIN PAD

FILL CONSTRUCTION JOINTS WITH JOINT FILLER 2. BEGIN CONCRETE GRINDING WITH 30 GRIT METAL-BOND 8. FOLLOWED BY TWO ADDITIONAL PASSES WITH 70 & THEN 120 METAL-BOND DIAMOND PASSES

4. WASH AREA 5. APPLY CONCRETE LS GUARD HARDENER/SEALER @ 400 6. BEGIN POLISHING CONCRETE WITH 100, THEN 200, THEN 400

AND THEN 800 GRIT RESIN-BOND DIAMOND PADS 8. APPLY FINAL COAT OF LS GUARD @ 1000 SF/GAL. 9. FINAL POLISH WITH 800 AND THEN 3000 GRIT RESIN-BOND POLISHING PADS

FLOOR FINISH LEGEND

NOT ALL FLOOR FINISHES ARE GRAPHICALLY SHOWN, ONLY THOSE FOR TRANSITION CLARIFICATION.

COLLINS WEBB #: DOOR SCHEDULE, FINISH LEGEND & FINISH SCHEDULE

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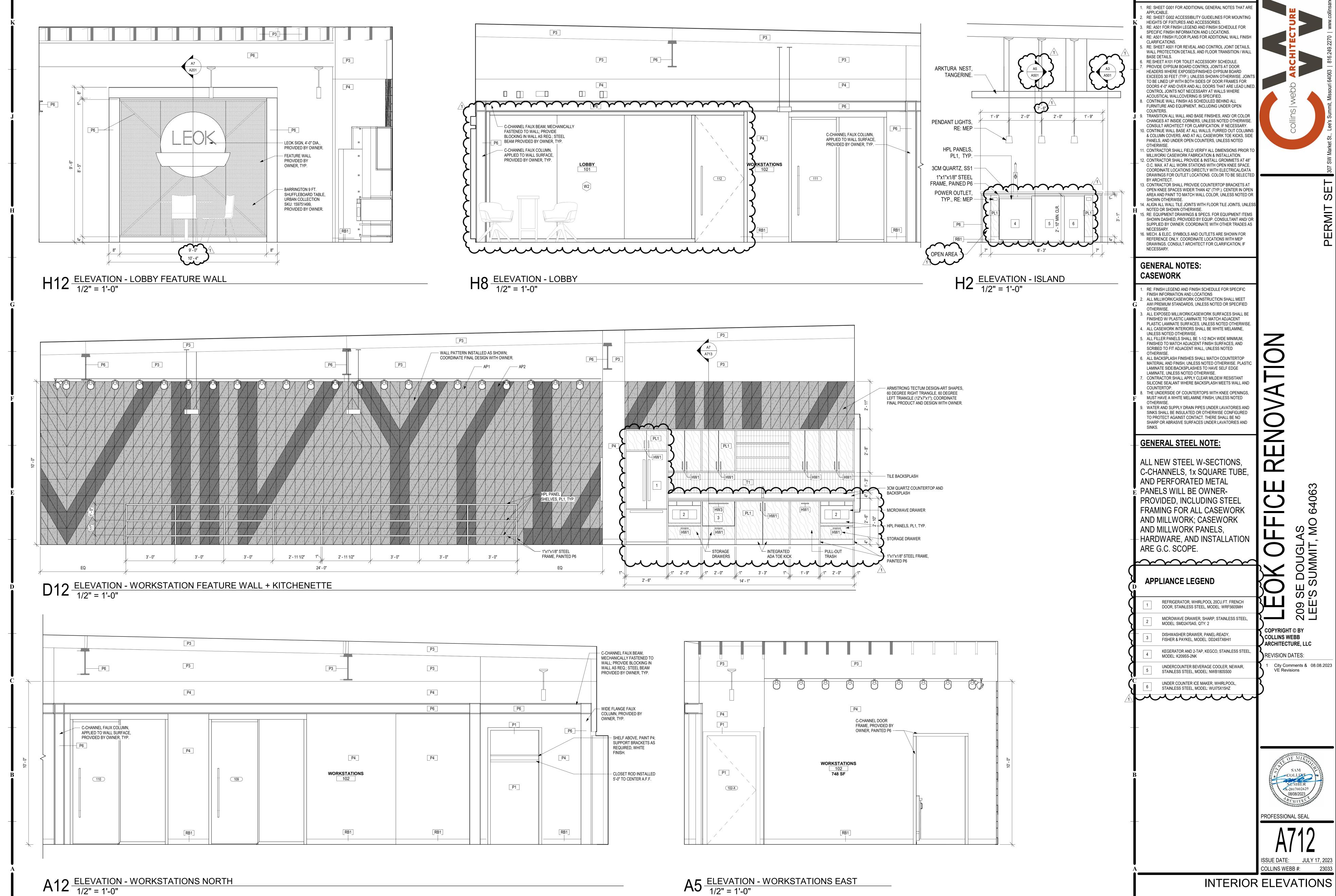
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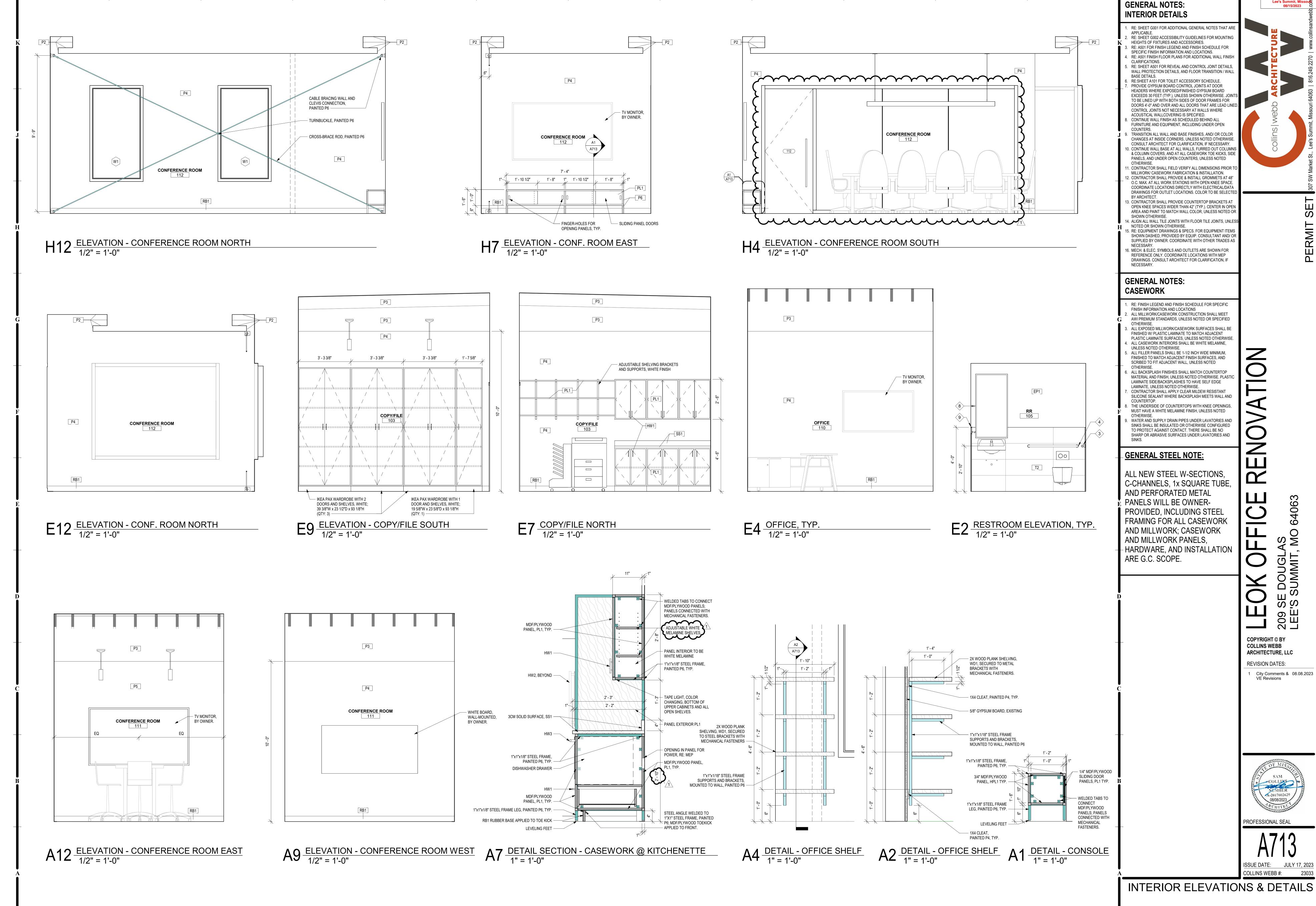
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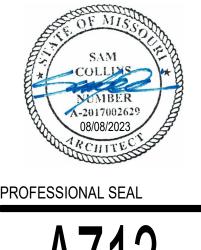


Lee's Summit, Missou 08/15/2023

GENERAL NOTES:

INTERIOR DETAILS





MECHANICAL GENERAL NOTES

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B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. . DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL

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D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

ROOFTOP UNIT SCHEDULE

	<u> </u>																	
MARK	MANUFACTURER	MODEL	AIR	OA	AMBIENT	EXT.	DX COOLING	G COIL		GAS HEAT			ELECTRICAL				APPROX.	REMARKS
RTU	\rightarrow		FLOW (CFM)	FLOW (CFM)	OAT (°F)	S.P. (IN.W.C.)	EAT (*FDB/WB)	TOTAL (BTU/HR)	1	FUEL	INPUT (BTU/HR)	OUTPUT (BTU/HR)		MOTOR HP	1	MOCP (AMPS)	WEIGHT (LBS)	
1	TRANE	4YCC4048E1	1,675	135	105	X	80/67	46,000	X	NATURAL GAS	90,000	72,900	240/1/60	3/4	31.8	50	600	SEE NOTES.
2	TRANE	4YCC4036E1	1,215	155	105	X	80/67	36,400	X	NATURAL GAS	90,000	72,900	240/1/60	1/2	26.2	40	600	SEE NOTES.

- PROVIDE 14" HIGH FACTORY FABRICATED INSULATED ROOF CURB.) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
-) PROVIDE 5 MINUTE TIME DELAY ON COMPRESSOR RESTART.
- PROVIDE OUTSIDE AIR ECONOMIZER. PROVIDE BAROMETRIC RELIEF DAMPER.
- PROVIDE MANUFACTURER?S 7 DAY PROGRAMMABLE THERMOSTAT WITH 4 STAGES OF HEATING AND 2 STAGES OF COOLING. TRANE TCONT302 OR APPROVED EQUAL.
-) PROVIDE FACTORY MOUNTED AND INTERLOCKED SUPPLY AND RETURN AIR SMOKE DETECTORS.
-) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH. PROVIDE 2" FILTER RACK AND MERV 8 FILTERS.

MARK	MANUFACTURER	MODEL	TYPE	NECK SIZE (L" X W")	FACE SIZE (L" X W")	FRAME TYPE	FINISH	NC	ACCESSORIES	REMARKS
\vee										
Α	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	-	(14" X 4")	DUCT	_	<30	OBD	SEE NOTES
В	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	_	(7" X 4")	DUCT	_	<30	OBD	SEE NOTES
С	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	_	(20" X 4")	DUCT	_	<30	OBD	SEE NOTES
D	PRICE	520	DOUBLE DEFLECTION ADJ. SUPPLY GRILLE	_	(6" X 6")	SURFACE	_	<30	OBD	SEE NOTES
Ε	PRICE	520	DOUBLE DEFLECTION ADJ. SUPPLY GRILLE	_	(8" X 8")	SURFACE	_	<30	OBD	SEE NOTES
F	PRICE	600	EXHAUST GRILL	-	(12" X 12")	SURFACE	_	<30	OBD	SEE NOTES
G	PRICE	SDS75	LINEAR 2-SLOT DIFFUSER	7"ø	(48" X 1.5")	LAY-IN	_	<30	OBD	SEE NOTES
Н	PRICE	80	EGG CRATE RETURN GRILLE	_	(10" X 10")	SURFACE	_	<30	_	SEE NOTES

1) COORDINATE WITH ARCHITECT FOR DESIRED FINISH.

OBD-OPPOSED BLADE DAMPER, LSP-LINEAR SLOT PLENUM

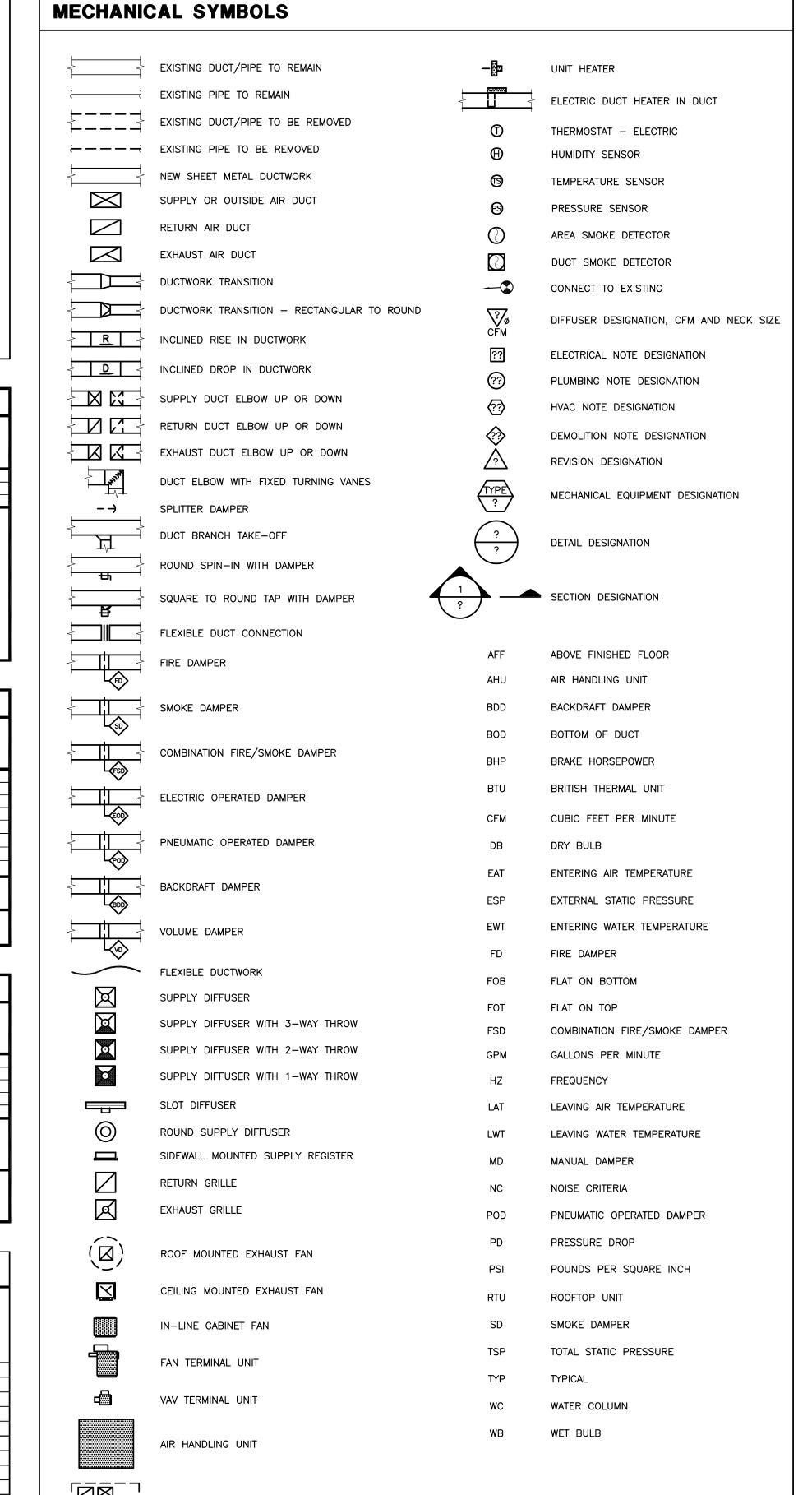
IARK	MANUFACTURER MODEL TYPE		DRIVE	PERFOR	MANCE			ELECTRICAL		ACCESSORIES	APPROX.	REMARKS	
EF				TYPE	AIR FLOW (CFM)	EXT. STATIC (IN.W.C.)	FAN SPEED (RPM)	SONES	VOLTS/ø/HZ	FAN MOTOR HP		WEIGHT (LBS)	
1 2	GREENHECK	G-070-VG	DOWNBLAST CENTIFUGAL	DIRECT	200	0.46	1725	5.7	115/60/1	1/15	AD, BS, RC, WP	100	SEE NOTES
3													
- 4 - 5													
	DRIZED CONTROL D	•	BIRD SCREEN, BD-BACKDRAFIRB, SC-PREFABRICATED SO				-		·		•		

MODEL NUMBERS ARE GENERAL MODEL NUMBERS FOR BASIS OF DESIGN. MODEL NUMBER MAY NOT INCLUDE ALL ACCESSORIES REQUIRED. SEE SPECIFICAITONS.

MECHANICAL VENTILATION AIR REQUIREMENTS

	AF	REA BASIS		0	CCUPANO	Y BASIS	3			
	Α	В	С		D	E	F	G]	
Zone/ System	Area (ft²)	CFM/ft ²	CFM	Persons	# of	CFM	CFM	Zone Air	Required Ventilation Air (CFM)	Design
			(A x B)	/	People	per	(D x E)	Distribution	(C+F)/G	Ventilation Air
				1000 SF		Person		Effectiveness		(CFM)
Large Conf	232	0.06	14	50	12	5	58	0.8	90	
Large Office	205	0.06	12	5	1	5	5	0.8	22	
Small Conf	86	0.06	5	50	4	5	22	0.8	33	
Small Office	90	0.06	5	5	0	5	2	0.8	10	
Total	613								155	155
Break Room	80	0.06	5	25	2	5	10	0.8	19	
Mens Restroom	48									
Open Office	1,077	0.06	65	5	5	5	27	0.8	114	
Womens Restroom	44									
Total	1,249								133	135
Grand Total	1862									290
NOTE C.	•	•	•	•	•	•	•		•	

OCCUPANCY AND VENTILATION RATES ARE AS REQUIRED PER THE 2018 INTERNATIONAL MECHANICAL CODE (TABLE 403.3).



NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

CONSTRUCTION As Noted on Plans Review

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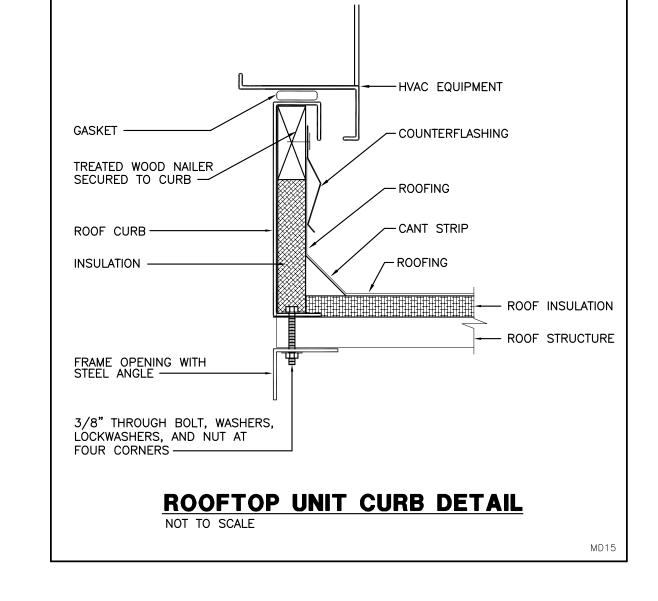
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MECHANICAL LEGEND

AND SCHEDULES COLLINS WEBB #: 23033

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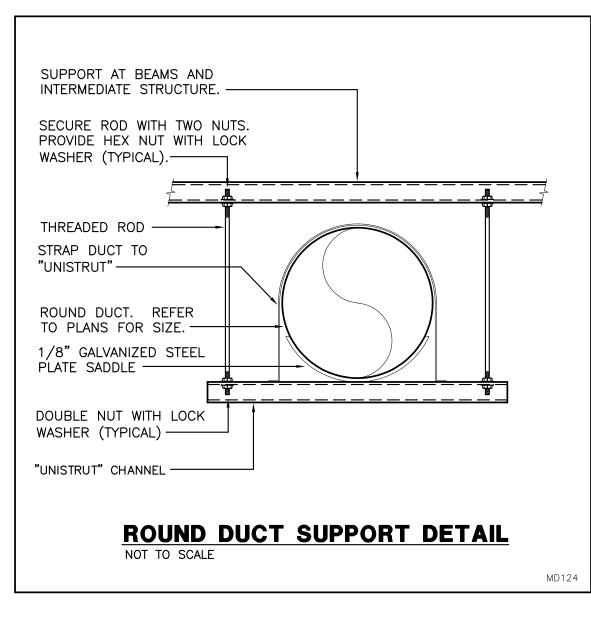
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1. IF PARTITION IS FIRE RATED, FURNISH FIRE RATED DAMPER AND FURNISH ACCESS DOOR.

RETURN AIR TRANSFER DUCT DETAIL

SEE PLANS FOR SIZE AND LOCATION OF RETURN AIR TRANSFER DUCT.



ELEVATION

TYPICAL CALLOUT ON PLANS

14/12 TRANS

ELEVATION

DUCT OFFSET

BRANCH DUCT

<u>PLAN VIEW</u>

<u>ELEVATION</u>

2) ANGLE A = 15° WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROW (RETURN OR EXHAUST).

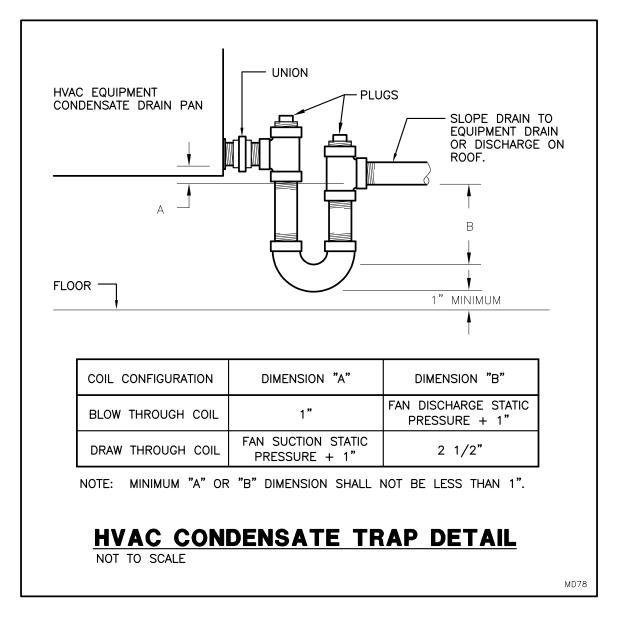
LOW VELOCITY DUCT FITTINGS DETAIL

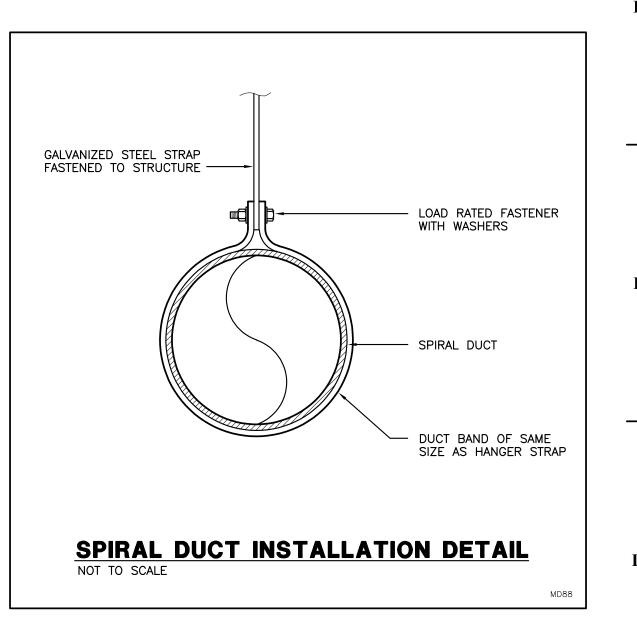
ELEVATION

NOTES: 1) ANGLE A = 30° WHEN AIR FLOWS IN DIRECTION OF ARROW (SUPPLY AIR).

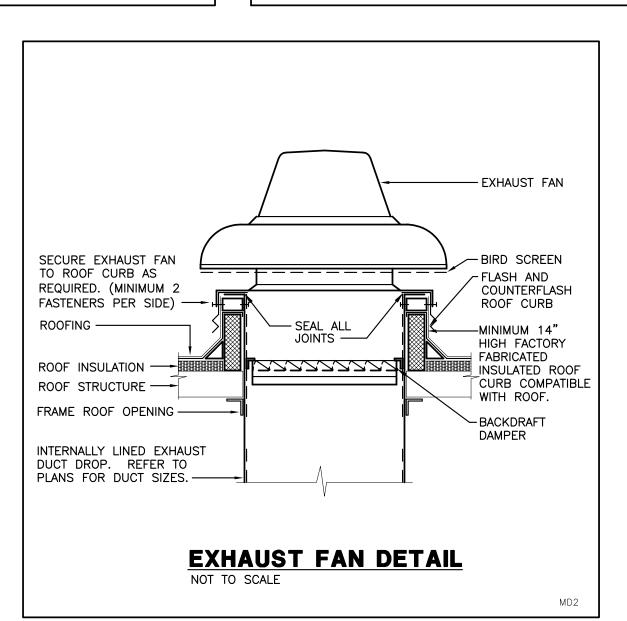
<u>PLAN VIEW</u>

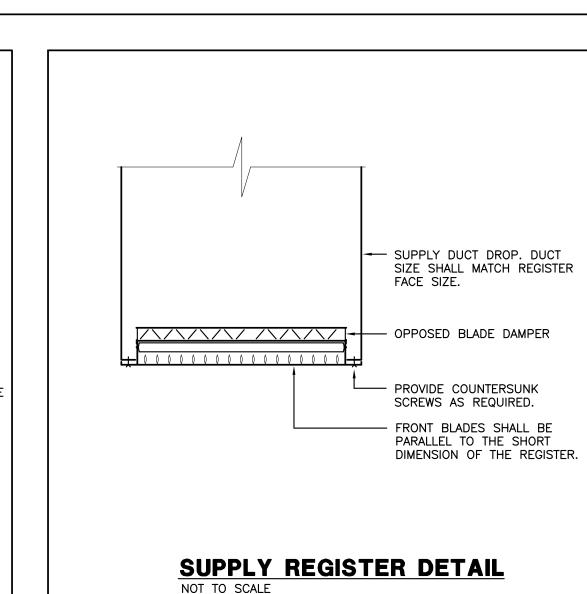
ELEVATION

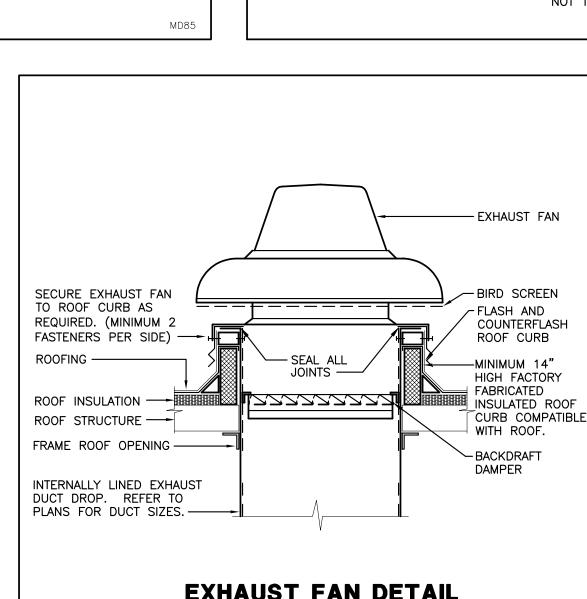


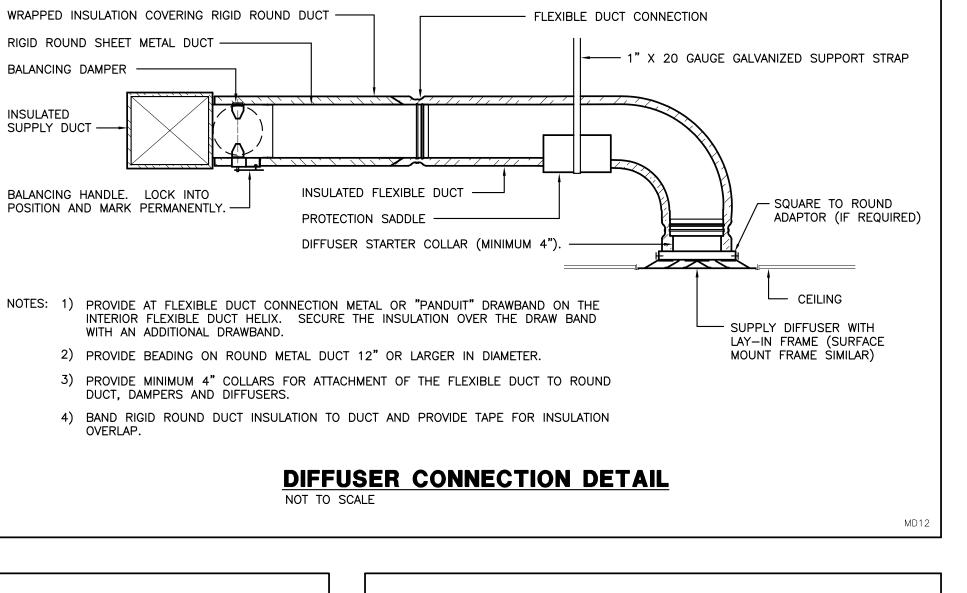


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MECHANICAL DETAILS

COLLINS WEBB #: 23033

PROFESSIONAL SEAL

CONSTRUCTION As Noted on Plans Review

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E. DUCTWORK DIMENSIONS LISTED ON PLANS INDICATE INTERNAL FREE

MECHANICAL PLAN DEMOLITION NOTES

DISCONNECT AND REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND ACCESSORIES. PATCH AND REPAIR AND EXTERIOR WALL AND ROOFTOP PENETRATIONS PER ARCHITECTURAL SPECIFICATIONS.

MECHANICAL PLAN NOTES

PROVIDE NEW ROOFTOP UNIT AND CURB ON ROOF. COORDINATE FINAL LOCATION WITH STRUCTURAL ENGINEER. ROUTE 1/2" LINED SUPPLY AND RETURN DUCTWORK DOWN THROUGH CURB TO SPACE BELOW.

2 PROVIDE 1/2" LINED RETURN BOOT ON UNIT RETURN. 3 PROVIDE 1/2" LINED 10X10 RETURN AIR TRANSFER BOOT POINTED UP

TOWARDS CEILING.

PROVIDE NEW EXHAUST FAN AND CURB ON ROOF. COORDINATE FINAL LOCATION WITH STRUCTURAL ENGINEER. ROUTE EXHAUST DUCTWORK DOWN THROUGH CURB TO SPACE BELOW PROVIDE THERMOSTAT AND CONTROL WIRING FOR ROOFTOP UNIT. MOUNT THERMOSTAT AT SAME ELEVATION AS ADJACENT LIGHT SWITCHES AND WALL ACCESSORIES. COORDINATE FINAL LOCATION AND FINISH WITH

ARCHITECT ARCHITECT (6) OUTSIDE AIR INTAKE HOOD ON ROOFTOP EQUIPMENT.

CONSTRUCTION
As Noted on Plans Review

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HEATING, VENTILATING AND AIR CONDITIONING SCOPE OF WORK THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF THE PROVIDING OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC., NECESSARY TO COMPLETE THE INSTALLATION OF THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AND OTHER ITEMS HEREIN LISTED, AND AS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED IN THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE OWNERS AUTHORIZED REPRESENTATIVE. HVAC WORK IS COMPRISED OF, BUT NOT LIMITED TO THE FOLLOWING

- AIR CONDITIONING EQUIPMENT.
- TEMPERATURE CONTROLS. SYSTEM OF SUPPLY AND RETURN DUCT, GRILLES AND OUTLETS.
- 4. EXHAUST SYSTEMS INCLUDING FANS, DUCTS, ETC.
- INSULATION FOR HVAC PIPING AND DUCTWORK SYSTEMS. 6. MISCELLANEOUS EQUIPMENT REQUIRED FOR SYSTEMS NOTED ABOVE.

A. FANS SHALL BE AS SCHEDULED AND SHALL BE AMCA RATED. ALL FANS SHALL HAVE BACK DRAFT DAMPER AND INTEGRAL LOCAL DISCONNECT MEANS, ROOF CURBS (WHERE REQUIRED), AND VARIABLE SPEED CONTROLLERS (WHERE SHOWN).

A. AIR CONDITIONING UNITS SHALL BE AS SCHEDULED ON DRAWINGS. UNITS SHALL BE STANDARD CATALOGUED PRODUCTS WITH THE APPROPRIATE APPROVAL OR CERTIFICATION BY AGA, ARI AND UL. EFFICIENCIES SHALL CONFORM TO ASHRAE 90 STANDARDS.

C. COMPRESSORS SHALL HAVE VIBRATION ISOLATORS AND FIVE (5) YEAR WARRANTY. ACCESSORIES SHALL INCLUDE SUCTION LINE ACCUMULATORS, SERVICE VALVES, SIGHT D. PROVIDE DX COIL WITH COPPER TUBE ALUMINUM FIN. PROVIDE MASTIC COATED, INSULATED GALVANIZED DRAIN PAN. WHERE UNITS ARE MOUNTED ABOVE CEILING, PROVIDE CONDENSATE SENSOR TO SHUT DOWN UNIT.

DOWN WHERE REQUIRED SHALL BE BY THE ELECTRICAL CONTRACTOR.

1. PIPE — TYPE "L" COPPER, WITH WROUGHT COPPER FITTINGS 50/50 SOLDER JOINT. PROVIDE WITH PLUGGED TEE CLEANOUTS UNLESS OTHERWISE ACCESSIBLE FOR CLEANING. TRAP ALL AIR UNIT CONDENSATE DRAINS WITH DEEP TRAPS.

PIPING- PRECHARGED TUBING OR TYPE "ACR" COPPER TUBE, WROUGHT COPPER OR VALVES- SHUTOFF, CHECK AND SOLENOID VALVES RATED FOR REFRIGERANT

LINE ALL LOW VELOCITY RECTANGULAR AIR CONDITIONING SUPPLY AIR DUCTS. DUCT DIMENSIONS ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. INCREASE SHEET METAL SIZES TO ALLOW FOR DUCT LINER THICKNESS. USE NEOPRENE FACED 1" THICK, 3.7 R-VALUE FIBERGLASS LINER. APPLY WITH MASTIC AND PINS WITH EROSION PROTECTION ON ALL EXPOSED EDGES. RETURN AIR SOUND BOOTS SHALL HAVE 1" LINER. ROUND SUPPLY DUCTS SHALL HAVE 2" THICK, 1 LB. DENSITY FIBERGLASS WRAP WITH VAPOR CONDENSATE DRAIN PIPING: INSULATE CONDENSATE DRAIN LINES WITH 1/2" THICK ARMAFLEX II SLIP ON TYPE INSULATION. DO NOT SPLIT.

E. REFRIGERANT LIQUID AND SUCTION, SAME AS CONDENSATE EXCEPT 3/4". COAT WEATHER EXPOSED INSULATION WITH ULTRAVIOLET SHIELD. CLEAN SYSTEM BY OPERATING AT LEAST THREE HOURS PRIOR TO FINAL ACCEPTANCE WITH TEMPORARY FILTERS. REMOVE ALL FILTERS AND REPLACE WITH CLEAN.

USE PRECLEANED, PRECHARGED REFRIGERANT TUBE. CLEAN PER MANUFACTURERS VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

A. FOUNDATIONS: PROVIDE FABRICATED SUPPORTS FOR ALL EQUIPMENT. MOUNT ON CONCRETE HOUSEKEEPING PADS WHERE INDICATED. B. VIBRATION ISOLATION: ALL MOTOR DRIVEN EQUIPMENT SHALL BE FURNISHED WITH ISOLATING MOUNTINGS. MOTORS SHALL BE MOUNTED ON RESILIENT BASES, SPRING, AND RUBBER SUPPORTS AS RECOMMENDED BY THE MANUFACTURER. PROVIDE FLEXIBLE CONNECTIONS WHERE SHOWN AND WHERE REQUIRED TO HOLD TRANSMITTED NOISE TO AN ACCEPTABLE MINIMUM AT PIPING AND DUCT CONNECTIONS.

C. DUCT FLEXIBLE CONNECTION SHALL BE NON-COMBUSTIBLE, 16 OUNCE CANVAS. PIPING FLEXIBLE CONNECTION SHALL BE FLEXONICS 401H OR ACCEPTABLE EQUAL.

TESTING, ADJUSTING AND BALANCING FOR HVAC A. CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDANT BALANCING AGENCY TO OPERATE AND TEST THE AIR CONDITIONING AND VENTILATING SYSTEMS AND INSTRUCT THE OWNER IN ITS OPERATION. PERFORM A SERIES OF GENERAL CAPACITY AND OPERATING TESTS. THE TESTS SHALL DEMONSTRATE THE SPECIFIED CAPACITIES OF VARIOUS PIECES

B. THE ENTIRE TEMPERATURE CONTROLS SYSTEMS SHALL BE ADJUSTED AND BALANCED AND PUT IN OPERATING CONDITION TO CAUSE THE EQUIPMENT TO MAINTAIN THE TEMPERATURES IN ACCORDANCE WITH THE INTENT OF THESE SPECIFICATIONS. OPERATE AND TEST EQUIPMENT DURING SUMMER AND WINTER SEASONAL STARTUP UNDER THIS CONTRACT C. TEST PIPING SYSTEM TO 1-1/2 TIMES THE OPERATING PRESSURE BUT NOT LESS THAN 50

D. SUBMIT THE COMPLETE TEST AND BALANCE REPORT FOR REVIEW TO THE OWNERS AUTHORIZED REPRESENTATIVE IN TRIPLICATE. TEST PROCEDURE AND REPORT SHALL CONFORM TO AABC OR NEBB. THE RESPONSIBLE INDIVIDUAL SHALL SIGN THE REPORT. E. TEST, ADJUST AND BALANCE SYSTEM DURING SUMMER SEASON FOR AIR CONDITIONING SYSTEMS AND DURING WINTER SEASON FOR HEATING SYSTEMS, INCLUDING AT LEAST A PERIOD OF OPERATION AT OUTSIDE CONDITIONS WITHIN 5 DEGREE F (3 DEGREE C) WET BULB TEMPERATURE OF MAXIMUM SUMMER DESIGN CONDITION, AND WITHIN 10 DEGREE F (6 DEGREE C) DRY BULB TEMPERATURE OF MINIMUM WINTER DESIGN CONDITION. WHEN

F. TESTING SHALL OCCUR WITH CLEAN FILTERS, ALL FILTERS IN PLACE. G. PREPARE REPORT OF TEST RESULTS, INCLUDING INSTRUMENTATION CALIBRATION REPORTS, IN FORMAT RECOMMENDED BY APPLICABLE STANDARDS. PROVIDE INITIAL, FINAL

TEMPERATURE READINGS SHALL BE TAKEN WHEN SEASONAL OPERATION DOES PERMIT.

AND INTERMEDIATE READINGS AS APPLICABLE. H. THE REPORT SHALL AS A MINIMUM, INCLUDE THE FOLLOWING:

 UNIT RATED, AND ACTUAL AMPERAGE AND VOLTAGE AT EACH MOTOR. FAN RPM, SHEAVE SIZE AND/OR SETTING. PROVIDE REPLACEMENT SHEAVES AS REQUIRED TO ACHIEVE DESIGN AIRFLOW.

SYSTEM STATIC PRESSURE. 4. DUCT TRAVERSE AND CFM READING AT EACH MAJOR DUCT BRANCH AND AT ALL DUCT BALANCING DAMPERS SERVING MORE THAN ONE INLET/OUTLET. INCLUDE TRAVERSE OF SUPPLY, RETURN, RELIEF AND OUTSIDE AIR AT EACH AIR MOVING DEVICE.

5. INSIDE, OUTSIDE, SUPPLY, RETURN AND MIXED AIR, AMBIENT DRY BULB AND WET BULB TEMPERATURES. 6. CFM OF EACH DUCTED INLET OR OUTLET.

 ALL SYSTEM INLETS AND OUTLETS SHALL BE BALANCED TO +/-10% OF DESIGN AIRFLOW. A. PROVIDE DUCTWORK SHOWN WITH NECESSARY PLENUMS, ACCESS DOORS, DAMPERS, REGULATORS, CASING, DEFLECTORS, ETC. CONSTRUCTION OF NEW G-90 GALVANIZED PRIME GRADE STEEL SHEETS PER ASHRAE AND SMACNA STANDARDS. PROVIDE ROUND OR

RECTANGULAR DUCT AS INDICATED. FABRICATE FOR THE PRESSURE AND SMACNA SEAL B. FLEXIBLE DUCT SHALL BE THERMAFLEX MKC FIBERGLASS FABRIC DUCT OR ACCEPTABLE EQUAL. MAXIMUM LENGTH SHALL BE 6'-0" FOR LOW VELOCITY AND 3'-0" FOR MEDIUM OR HIGH VELOCITY. UL CLASS 181 DUCT WITH INSULATING JACKET AND VAPOR BARRIER. C. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. SHEETMETAL SIZES SHALL BE

INCREASED TO ALLOW FOR DUCT LINER, WHERE APPLICABLE. AIR DUCTWORK ACCESSORIES

A. PROVIDE SINGLE THICKNESS TURNING VANES IN ALL SUPPLY DUCT TURNS.

1. ELBOWS SHALL BE MITERED WITH SINGLE THICKNESS VANES OR RADIUSED WITH NO VANES AND A CENTERLINE RADIUS OF 12 TIMES DUCT WIDTH OR DIAMETER. 2. ROUND DUCT TAKEOFFS TO INDIVIDUAL OUTLETS SHALL BE MADE WITH 45E OR 90E TAKEOFFS, WITH OR WITHOUT CONICAL FITTING AND MANUAL DAMPER. SCOOPS WILL 3. RECTANGULAR DUCT SPLITS WITH 20% OR LESS AIRFLOW TO THE BRANCH SHALL BE MADE WITH 90E FITTING WITH A 45E ENTRY AND MANUAL DAMPER. EXTRACTORS OR

SCOOPS WILL NOT BE ALLOWED. 4. RECTANGULAR DUCT SPLITS WITH MORE THAN 20% FLOW TO THE BRANCH SHALL BE MADE WITH 45E WYE OR 90E TEE FITTING WITH EITHER MITERED OR RADIUS ELBOWS WITH MANUAL DAMPER IN BRANCH. PROVIDE MANUAL DAMPER IN MAIN IF BRANCH FLOW EXCEEDS 40% OF TOTAL FLOW.

5. REDUCING FITTINGS SHALL FOLLOW SLOPE ANGLES RECOMMENDED BY SMACNA. USE OF ANY SHARPER ANGLE SHALL HAVE THE APPROVAL OF THE ENGINEER PRIOR FABRICATION. TAKEOFFS AT REDUCING FITTINGS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.

6. WHERE DUCT WIDTH CHANGES SIZE MORE THAN 20% ACROSS AN ELBOW, A SEPARATE REDUCING FITTING SHALL BE USED DOWNSTREAM OF THE ELBOW UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE SPIN IN FITTINGS WITH VOLUME DAMPER FOR ALL ROUND TAKEOFFS TO

D. PROVIDE DUCT ACCESS DOORS FOR ALL INTERNAL DUCT MOUNTED EQUIPMENT. E. PROVIDE DAMPERS WHERE SHOWN AND REQUIRED. BALANCE AND CONTROL DAMPERS SHALL BE OPPOSED BLADES EXCEPT AIR MIXING DAMPERS SHALL BE PARALLEL BLADE. DAMPERS SHALL BE AS "RUSKIN" AS INDICATED BELOW OR ACCEPTABLE EQUAL. FIRE, SMOKE AND RADIATION DAMPERS SHALL BE U.L. LISTED.

1. FIRE DAMPERS - RUSKIN IBD-2, FD, FDR

2. BACKDRAFT DAMPER - RUSKIN CBD-6 3. SMOKE DAMPER - RUSKIN SD-35

4. RADIATION DAMPER - RUSKIN CFD SERIES 5. CONTROL DAMPER - RUSKIN CD-50

6. MANUAL DAMPER - RUSKIN MD-35

A. ALL SUPPLY GRILLES, REGISTERS AND DIFFUSERS SHALL BE AS SCHEDULED ON THE B. LOUVERS SHALL BE RUSKIN ELF-375D OR ACCEPTABLE EQUAL AND SHALL BE ADC RATED.

A. PROVIDE FILTERS IN AIR INTAKE TO THE A/C UNIT SYSTEM WITH SIZE AND NUMBER OF FILTERS STANDARD WITH AIR UNIT MANUFACTURERS. PROVIDE 2" THICK, HI-VELOCITY, THROW-A-WAY EQUAL TO CAMFIL 30/30. FILTERS SHALL BE NEW AND CLEAN AT TIME OF OWNER'S ACCEPTANCE. SUPPLY EXTRA SET OF FILTERS.

THIS DRAWING IS A SINGLE PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS. REFER TO DRAWING AND SPECIFICATION SHEETS INCLUDING, BUT NOT LIMITED TO, ALL "GENERAL CONDITIONS", "SUMMARY OF WORK", AND APPLICABLE SPECIFICATION SECTIONS WHICH APPLY TO THIS DRAWING. REFER TO ALL DOCUMENTS FOR THE COMPLETE SCOPE OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INFORMATION CONTAINED IN THE "SET" OF DOCUMENTS ISSUED. THIS DRAWING IS SCHEMATIC AND IS NOT TO BE USED AS A SHOP DRAWING. ALTERATIONS FROM THAT SHOWN REQUIRED TO COORDINATE WITH OTHER TRADES OR TO CONFORM TO ACTUAL SITE CONDITIONS ARE THE CONTRACTOR'S RESPONSIBILITY. VERIFY THE LOCATIONS OR DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS ISSUED. THE SHOWING OF THESE ELEMENTS ARE FOR REFERENCE ONLY AND ARE TO BE VERIFIED PRIOR TO DESIGN OR CONSTRUCTION. NO LIABILITY IS ASSUMED BY THE INDICATION OF SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THAT PERSON IS EMPLOYED BY DISCLAIM RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR.

THIS DOCUMENT SHALL NOT BE USED FOR ANY OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THE PROJECT BY OTHER WITHOUT THE PRIOR WRITTEN CONSENT OF GIBBENS DRAKE SCOTT. ANY INDIVIDUAL AND/OR COMPANY THAT USES THIS DOCUMENT UNAUTHORIZED, AGREE TO THE FULLEST EXTENT OF THE LAW, TO INDEMNIFY AND HOLD HARMLESS GIBBENS DRAKE SCOTT, INC., IT'S OFFICERS, DIRECTORS AND EMPLOYEES AGAINS ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF DEFENSE, ARISING OUT OF THE MISUSE OF THIS DOCUMEN

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MECHANICAL GENERAL PROVISIONS

ALL APPLICABLE PROVISIONS OF THE CONTRACT DOCUMENTS SHALL GOVERN DIVISION 23 AND 26. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIALS, EQUIPMENT, APPARATUS, MECHANICAL/ELECTRICAL SYSTEMS AND INCIDENTALS REQUIRED FOR COMPLETE AND WORKING INSTALLATION. THE TAXES, and SERVICES: AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE STANDARDS, REGULATIONS AND CODES

A. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE NATIONAL ELECTRIC CODE AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY

B. THE CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED THEREWITH. C. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM MECHANICAL/ELECTRICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. D. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND

A. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE LOCAL CONDITIONS AND EXISTING INSTALLATIONS, SHALL DETERMINE SUB—SURFACE SOIL CONDITIONS AS TO WHAT DIFFICULTIES MAY BE ENCOUNTERED IN TRENCHING AND BACKFILLING, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. HE SHALL LOCATE ALL EXISTING UTILITIES AND PROTECT THEM DURING THE EXECUTION OF THE WORK.

B. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE THEMSELF WITH THE TYPE OF

CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL C. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL

PROVIDE UTILITY SERVICES TO THE BUILDING INCLUDING WATER, NATURAL GAS

SANITARY SEWER, STORM SEWERS, AND ELECTRICAL. COORDINATE WITH THE UTILITY THE EXACT RESPONSIBILITY FOR TAPS, METERS, PIPING TO METERS, INSTALLATION STANDARDS AND PROCEDURES, AND INCLUDE ALL CHARGES ASSOCIATED THEREWITH IN THE BASE BID. OMPLY WITH ALL UTILITY REQUIREMENTS FOR PIPELINE TAPS, METER PITS, EXCAVATION, B. CONNECT TO EXISTING UTILITY SERVICES WITHIN THE BUILDING INCLUDING WATER, NATURAL GAS, SANITARY SEWER, STORM SEWERS AND ELECTRICAL. CONTRACTOR SHALL

FIELD VERIFY THE EXACT LOCATION OF ALL UTILITIES.

A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND

A. ALL NECESSARY CUTTING, DRILLING AND PATCHING SHALL BE PROVIDED BY THIS CONTRACTOR. STRUCTURAL MEMBERS SHALL NOT BE DISTURBED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEATLY REPAIRED AND REFINISHED TO THE CONDITION OF DJOINING SURFACES IN A MANNER SUITABLE TO THE OWNERS AUTHORIZED

B. REPAIR ANY DAMAGE RESULTING FROM CONSTRUCTION INCLUDING BUT NOT LIMITED TO FINISHES AND FIRE PROOFING MEMBRANES. ALL REPAIRS SHALL MATCH EXISTING OPERATION DURING CONSTRUCTION

A. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OPERATION, SERVICE AND MAINTENANCE OF ALL NEW EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT. WARRANTY PERIODS SHALL NOT COMMENCE UNTIL FINAL ACCEPTANCE BY THE OWNER. B. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL TEMPORARY HEAT, WATER AND SEWER REQUIRED TO PROTECT THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE

SAFETY REGULATIONS ALL MECHANICAL/ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. PROVIDE SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCKS OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER. B. THE CONTRACTOR SHALL CLEAN AND MAINTAIN HIS PORTION OF THE WORK AS SPECIFIED IN C. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIAL PRESENT AS

COORDINATION A. MOUNT MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT TO PROVIDE RECOMMENDED WORKING CLEARANCES AND ACCESS TO ALL COMPONENTS. PROVIDE ACCESS TO FILTERS, COMPRESSORS, CONTROLS AND MOTORS WITHOUT REMOVING EQUIPMENT. COORDINATE WITH ALL TRADES SO THAT NO PIPING. CONDUIT, DUCT OR STRUCTURAL MEMBER DBSTRUCTS REQUIRED ACCESS OR IS BENEATH EQUIPMENT SHOULD REMOVAL EVER BE REQUIRED. NOTIFY ARCHITECT/ENGINEER OF ANY ACCESS OR MOUNTING CONFLICTS PRIOR TO INSTALLATION. FAILURE TO COORDINATE WILL NOT BE CONSIDERED A BASIS FOR

GRANTING ADDITIONAL COMPENSATION. B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF COORDINATION DRAWING(S) OF ANY AND ALL AREAS WHERE SPACE IS LIMITED OR COORDINATION OF TRADES IS PARTICULARLY CRITICAL AND ELSEWHERE AS REQUIRED BY THE DOCUMENTS. INCLUDE THE WORK OF ALL TRADES IN THIS DRAWING.

GRAPHIC REPRESENTATION AND JOB CONDITIONS A. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM. 3. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THE

MECHANICAL AND ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL ARRANGE WORK IN A NEAT, WELL-ORGANIZED MANNER. COORDINATE WORK WITH OTHER **GUARANTEES**

A. THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK, OR AS NOTED IN EACH SECTION.

SUBSTITUTIONS A. THE MATERIALS, PRODUCTS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISH A STANDARD OF QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION. B. CONTRACTOR'S BIDS SHALL BE BASED ON THE MATERIAL MENTIONED OR SPECIFIED, AND ANY PROPOSALS FOR A SUBSTITUTION SHALL BE MADE IN WRITING TO THE ARCHITECT/ENGINEER ALLOWING ADEQUATE TIME FOR APPROPRIATE ACTION. TH PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTED, IF IN THE OPINION OF THE

ARCHITECT/ENGINEER, THE SUBSTITUTE MATERIAL IS OF A 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 INTENDED. THE BURDEN OF PROOF OF EQUALITY IS UPON THE PROPOSER. C. REFER TO DIVISION 1 REQUIREMENTS FOR SUBSTITUTION PROCEDURES. D. WHEREVER SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE ALL ITEMS OF COST OF THE REVISED DESIGN AND CONSTRUCTION.

TEMPORARY HEATING AND COOLING: PROVIDE COMPLETE AND FREQUENT PERIODIC MAINTENANCE OF HEATING AND COOLING EQUIPMENT AND ASSOCIATED PERIPHERAL EQUIPMENT, IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, SHOULD IT BE USED FOR HEATING OR COOLING PURPOSES PRIOR TO SUBSTANTIAL COMPLETION. THIS INCLUDES FILTER CHANGES, WATER TREATMENT CHEMICALS, LUBRICATION, ETC.

ANY DAMAGE TO THE EQUIPMENT OR DAMAGE TO ANY PART OF THE FACILITY, RESULTING FROM TEMPORARY OPERATION OF THE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE USE OF THE EQUIPMENT FOR TEMPORARY HEATING AND COOLING SHALL NOT AFFECT THE STARTING DATE OF THE ONE-YEAR WARRANTY AND SERVICE REQUIREMENTS SPECIFIED ELSEWHERE IN THE SPECIFICATIONS. AT SUBSTANTIAL COMPLETION, ALL EQUIPMENT SHALL BE CLEAN AND IN LIKE NEW CONDITION. REPLACE ALL FILTERS WITH CLEAN, UNUSED FILTERS

DISCREPANCIES IN DOCUMENTS: WHERE DRAWINGS OR SPECIFICATIONS CONFLICT OR ARE UNCLEAR, ADVISE ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, THE ARCHITECT/ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS SHALL BE FINAL, AND NO ADDITIONAL

OMPENSATION SHALL BE PERMITTED DUE TO DISCREPANCIES OR UNCLARITIES THUS B. WHERE DRAWINGS OR SPECIFICATIONS DO NOT COINCIDE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR WITH APPLICABLE CODES AND STANDARDS, ALERT ARCHITECT/ENGINEER IN WRITING BEFORE INSTALLATION. OTHERWISE, MAKE CHANGES IN INSTALLED WORK AS ARCHITECT/ENGINEER REQUIRES WITHIN CONTRACT PRICE. C. IF THE REQUIRED MATERIAL, INSTALLATION, OR WORK CAN BE INTERPRETED DIFFERENTLY FROM DRAWING TO DRAWING, OR BETWEEN DRAWINGS AND SPECS, THIS CONTRACTOR SHALL PROVIDE THAT MATERIAL, INSTALLATION, OR WORK IS OF THE HIGHER STANDARD. IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE SYSTEMS AND COMPONENTS THAT ARE FULLY COMPLETE AND OPERATIONAL AND FULLY SUITABLE FOR THE INTENDED USE. THERE MAY BE SITUATIONS IN THE DOCUMENTS WHERE INSUFFICIENT INFORMATION EXISTS TO PRECISELY DESCRIBE A CERTAIN COMPONENT OR SUBSYSTEM, OR THE ROUTING OF A COMPONENT OR ITS COORDINATION WITH OTHER BUILDING ELEMENTS. IN CASES SUCH AS THIS, WHERE THE CONTRACTOR HAS FAILED T NOTIFY THE ARCHITECT/ENGINEER OF THE SITUATION IN ACCORDANCE WITH PARAGRAPH (

E. IN CASES COVERED BY PARAGRAPH (D) ABOVE, WHERE THE CONTRACTOR BELIEVES HE NEEDS ENGINEERING GUIDANCE, HE SHALL SUBMIT A SKETCH IDENTIFYING HIS PROPOSED SOLUTION AND THE ARCHITECT SHALL REVIEW, NOTE IF NECESSARY, AND APPROVE THE SKETCH.

ABOVE, THE CONTRACTOR SHALL PROVIDE THE SPECIFIC COMPONENT OR SUBSYSTEM WITH ALL PARTS NECESSARY FOR THE INTENDED USE, FULLY COMPLETE AND OPERATIONAL, AND

NSTALLED IN WORKMANLIKE MANNER EITHER CONCEALED OR EXPOSED PER THE DESIGN

MODIFICATIONS IN LAYOUT: A. HVAC. PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC THEY INDICATE GENERAL ARRANGEMENTS OF MECHANICAL AND ELECTRICAL SYSTEMS AND OTHER WORK. THEY DO NOT SHOW ALL OFFSETS REQUIRED FOR COORDINATION NOR DO THEY SHOW THE EXACT ROUTINGS AND LOCATIONS NEEDED TO COORDINATE WITH

OCCUPANTS, IN ALL SUCH SPACES, PRIOR TO INSTALLATION OF VISIBLE MATERIAL AND

3. IN ORDER TO OBTAIN THE ARCHITECT'S DESIRED ESTHETICS IN SPACES USED BY BUILDING

EQUIPMENT (INCLUDING ACCESS PANELS) REVIEW ARCHITECTURAL DRAWINGS FOR DESIRED LOCATIONS AND WHERE NOT DÉFINITELY INDICATED, REQUEST INFORMATION CHECK CONTRACT DRAWINGS AS WELL AS SHOP DRAWINGS OF ALL SUBCONTRACTORS TO VERIFY AND COORDINATE SPACES IN WHICH WORK OF THIS SECTION WILL BE INSTALLED. D. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING, DUCT, CONDUIT, AND ASSOCIATED COMPONENTS TO BE AS TIGHT TO UNDERSIDE OF STRUCTURE AS POSSIBLE. MAKE REASONABLE MODIFICATIONS IN LAYOUT AND COMPONENTS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND TO COORDINATE ACCORDING TO PARAGRAPHS A, B, C, D ABOVE. SYSTEMS SHALL BE RUN IN A RECTILINEAR FASHION.

DESIRED, SUBMIT SKETCH OF PROPOSED RESOLUTION TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. A. IF THE RFI IS A REQUEST TO RESOLVE A CONFLICT OR AN UNCLARITY, OR A REQUEST FOR ADDITIONAL DETAIL. CONTRACTOR'S RFI SHALL INCLUDE A SKETCH OR EQUIVALENT DESCRIPTION OF CONTRACTOR'S PROPOSED SOLUTION, IN ACCORDANCE WITH "DESCREPENCIES IN DOCUMENTS" PARAGRAPH E AND "MODIFICATIONS IN LAYOUT"

F. WHERE CONFLICTS OR POTENTIAL CONFLICTS EXIST AND ENGINEERING GUIDANCE IS

SHOP DRAWINGS AND PRODUCT DATA A. THE CHECKING OF SHOP DRAWINGS IS A GRATUITOUS ASSISTANCE AND IN NO WAY RELIEVES THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS,

AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE

B. REFER TO DIVISION 1 REQUIREMENTS FOR REQUEST FOR INFORMATION SUBMISSION

ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION. IN ADDITION, DUCTWORK AND FIRE SPRINKLER LAYOUT DRAWINGS SHALL BE SUBMITTED AS WELL AS PIPING DRAWINGS OF C. REFER TO DIVISION 1 REQUIREMENTS FOR SHOP DRAWING SUBMISSION PROCEDURES. OPERATING AND MAINTENANCE BROCHURE

A. AT THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL PROVIDE THREE (3) HARD INSTRUCTIONS, AND PARTS LISTS FOR ALL MAJOR EQUIPMENT AND MANUFACTURERS GUARANTIES OR WARRANTIES.

A. ON COMPLETION OF THE PROJECT, SUBMIT TWO NEW SETS OF BLUELINE PRINTS WITH ALL MARKED OUT. B. REFER TO DIVISION 1 REQUIREMENTS FOR RECORD DRAWING SUBMISSION PROCEDURES. FOUNDATIONS AND SUPPORTS

A. THE CONTRACTOR SHALL PROVIDE CONCRETE BASES, HANGERS, AND FOUNDATIONS FOR ALL MACHINERY AND EQUIPMENT SPECIFIED OR SHOWN IN THIS CONTRACT, INCLUDING FANS, AIR CONDITIONING UNITS, PUMPS, MOTORS, ELECTRICAL GEAR, ETC., UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THIS CONTRACTOR SHALL TAKE ALL PRECAUTIONS AGAINST EXCESSIVE NOISE OR VIBRATION BY ISOLATING THE VARIOUS ITEMS OF EQUIPMENT FROM THE BUILDING'S STRUCTURE WITH EITHER SPRING, RUBBER IN SHEAR OR NEOPRENE PAD ISOLATORS AS INDICATED OR AS RECOMMENDED BY THE VIBRATION B. ALL HANGERS, BRACKETS, CLAMPS, ETC., SHALL BE OF STANDARD WEIGHT STEEL PERFORATED STRAP HANGERS SHALL NOT BE USED IN ANY WORK. WHEN TWO (2) OR MORE

PIPES OR CONDUITS ARE RUN PARALLEL OR WHERE DUCTS INTERFERE WITH THE PROPER LOCATION OF HANGERS. THEY MAY BE SUPPORTED ON TRAPEZE HANGERS. OTHER HANGERS SHALL BE HINGED RING MALLEABLE IRON, BY GRINNELL OR FEE AND MASON OR APPROVED EQUAL WITH RODS AND HANGER ADJUSTERS OF ADEQUATE SIZE TO CARRY THE LOADS IMPOSED. ALL PIPELINES, DUCTWORK AND CONDUIT SHALL BE INDEPENDENTLY SUPPORTED FROM EACH OTHER AND FROM EQUIPMENT. PROVIDE FLEXIBLE CONNECTORS AT ALL ROTATING EQUIPMENT OR FOR EQUIPMENT MOUNTED ON VIBRATION ISOLATORS.

A. ALL MOTORS FURNISHED UNDER THIS SPECIFICATION SHALL BE RECOGNIZED MANUFACTURER, OF ADEQUATE CAPACITY FOR THE LOADS INVOLVED. ALL MOTORS SHALL CONFORM TO THE STANDARDS OF MANUFACTURER AND PERFORMANCE OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AS SHOWN IN THEIR LATEST PUBLICATIONS. B. ALL MOTORS 3/4 HP AND ABOVE SHALL BE HIGH EFFICIENCY ACCORDING TO IEEE STANDARD FUSED DISCONNECTS AND MOTOR STARTERS FOR EQUIPMENT SHALL BE FURNISHED BY THE TRADE SUPPLYING THE EQUIPMENT. INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR, PROVIDE MANUAL OR MAGNETIC STARTERS WITH NECESSARY AUXILIARY CONTACTS AND HOA SWITCH FOR THE SPECIFIED SEQUENCE OF OPERATION. C. ALL TEMPERATURE CONTROLS UNLESS NOTED OTHERWISE SHALL BE BY THE ELECTRICAL

EXCAVATION AND BACKFILLING A. CONTRACTOR SHALL DO ALL NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF HIS WORK. PROVIDE SAND OR 1/2" - 3/4" CLEAN LIMESTONE SUB-BASE WHERE REQUIRED FOR LEVELING TRENCH. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED TO GRADE WITH COMPACTED SAND, GRAVEL OR AB-3 MATERIAL OR OTHER MATERIAL AS REQUIRED BY LOCAL AUTHORITIES.

COMPACT TO 85 PERCENT DENSITY FOR UNPAVED AREAS, 95 PERCENT DENSITY FOR PAVED AREA OR UNDER SLABS. B. ALL WATER BEARING PIPE SHALL BE 3'-0" MINIMUM BELOW GRADE.

C. ALL NATURAL GAS PIPING SHALL BE 2'-6" MINIMUM BELOW GRADE.

D. ROADS, ALLEYS, STREETS, SIDEWALKS AND UTILITIES DAMAGED DURING THIS WORK SHALL BE RESTORED TO THE SATISFACTION OF OWNERS AUTHORIZED REPRESENTATIVE AND WHERE SUBSIDENCE IS MEASURABLE OR OBSERVABLE AT EXCAVATION DURING GENERAL PROJECT WARRANTY PERIOD, REMOVE SURFACE, ADD BACKFILL MATERIAL, COMPACT, AND REPLACE SURFACE TREATMENT. RESTORE APPEARANCE OF SURFACE TO MATCH ADJACENT

SLEEVES AND ESCUTCHEONS WHERE PIPES OR CONDUITS PASS THROUGH WALLS OR FLOORS, 20GA GALVANIZED SHEET IRON SLEEVES SHALL BE USED, EXCEPT THOSE IN BEAMS, OUTSIDE WALLS, OR STRUCTURAL MEMBERS SHALL BE CAST IRON OR SCHEDULE 40 STEEL PIPE SLEEVES. B. SLEEVES THROUGH INTERIOR NON-RATED WALL SHALL BE PACKED WITH FIBERGLASS AND

C. SLEEVES BELOW GRADE OR IN EXTERIOR WALLS SHALL HAVE MECHANICAL SEALS. SLEEVES THROUGH FIRE RATED STRUCTURE SHALL BE FIRE BARRIER CAULKED WITH PUTTY STRIP OR SHEET BY 3M OR EQUAL. PROVIDE STEEL (DRY LOCATIONS) OR BRASS (DAMP LOCATIONS) ESCUTCHEON TO

COMPLETELY COVER PIPE PENETRATION HOLE IN FLOORS, WALLS, OR CEILINGS. PROVIDE

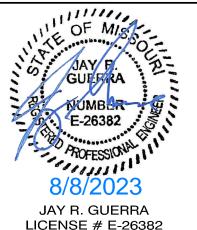
PIPE ESCUTCHEONS WITH NICKEL OR CHROME FINISH FOR OCCUPIED AREAS, PRIME PAINT

FINISH FOR UNOCCUPIED AREAS, BRASS FOR EXTERIOR. THE JOINING OF DISSIMILAR METALS SHALL BE AVOIDED WHENEVER POSSIBLE. IF NOT, PROVIDE DIELECTRIC FITTING OR OTHER MEANS TO PREVENT GALVANIC ACTION.

B. FAN SHALL BE FORWARD CURVE OR AIRFOIL AS INDICATED. PROVIDE UNIT WITH MANUFACTURERS STANDARD UNIT CONTROL PACKAGE. CONTROLS TO INCLUDE FACTORY WIRED TERMINALS WITH OVERLOAD DEVICES AND TRANSFORMERS AS REQUIRED. UNIT SAFETY CONTROL TO INCLUDE HIGH-LOW PRESSURE SWITCHES, FAN RELAYS, SHORT CYCLE SAFETY AND INTERNAL PRESSURE RELIEF. SMOKE DETECTOR SHUT PIPE, FITTINGS AND VALVES

PARTICULATE AIR FILTRATION END OF SECTION

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PROFESSIONAL SEAL MECHANICAL SPECIFICATIONS

COLLINS WEBB #:

.EC	TRIC WA	TER H	EATER	SCHE	DULE								
ARK WH		MODEL		TANK	STORAGE	RECOVERY	TEMP RISE		ELECTRICA	۸L			
	MANUFACTURER	NO.	TYPE	LINING	(GALLONS)	GAL/HR	۰F	KW	VOLT	Ø	HZ	AMPS	REMARKS
/H-1	LOCHINVAR	LCA-20(6)	ELECTRIC	GLASS	20	25	100	6	240	1	60	25	SEE NOTES.
TEO	·	•											·

. PROVIDE ONE EXPANSION TANK WITH ASME RATING AND CAPACITY OF 10 GALS, AMTROL THERM-X-ROL ST-25V-C. SET OPERATING TEMPERATURE OF WATER HEATER AT 140°F AND CIRCULATE 140°F HOT WATER THRU SYSTEM. PROVIDE POINT OF USE MIXING VALVES ON HOT WATER SUPPLY TO FAUCETS.

PUMP SCHEDULE												
MARK	MANUFACTURER	MODEL	TYPE	DESIGN CON	DITIONS	_		MOTOR D	ATA	ELECTRICAL	SERVICE	REMARKS
				FLUID	FLOW	PRESSURE	CONTROL	MOTOR	MOTOR	VOLTS/ø/HZ	1	
PP \				TEMP (°F)	(GPM)	HEAD (FT)	HEAD (FT)	RPM	WATTS			
					`							
PP-	BELL & GOSSETT	ECOCIRC 20-18	INLINE CIRCULATOR	140	4	10	3	3638	70	120/1/60	DOMESTIC WATER CIRCULATION	NOTES 1,2,&3
NOTES	•											

PROVIDE A 210'F TEMPERATURE AND 150 PSI PRESSURE RELIEF VALVE WITH TEST LEVER SIZED WITH AGA/CGA TEMPERATURE STEAM RATING 10% OVER HEATER INPUT.

FURNISH COMBINATION MOTOR STARTER/DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR FOR INSTALLATION. PROVIDE CONTROL FOR DOMESTIC HOT WATER CIRCULATION TO MAINTAIN A MINIMUM OF 135°F RETURN WATER TEMPERATURE.

PROVIDE ISOLATION VALVES, STRAINER, AND CHECK VALVE. REFER TO DETAIL.

GENERAL PLUMBING DEMO NOTES

CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

AFTER REMOVING PIPING SUSPENDED FROM STRUCTURE ABOVE CEILING, AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT - REPAIR ALL WALLS, CEILINGS, AND FLOORS, THAT ARE TO REMAIN AFTER THE REMODELING IS FINISHED. ALL PIPING NOT EXISTING TO REMAIN SHALL BE DISCONNECTED AND

REMOVED FROM EXISTING PLUMBING SYSTEM.

ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

			RE SCHEDULE
MARK	MANUF.	MODEL NO.	DESCRIPTION
FD-1	SIOUX CHIEF	822 SERIES	FINISH-LINE HALO SYSTEM, ENAMEL-COATED DUCTILE IRON BODY WITH NO-HUB CONNECTION, WITH 18 GAUGE STAINLESS STEEL DECK MOUNTING FLANGE 9 1/2" IN DIAMETER. WITH BRONZE HEEL-PROOF GRATE WITH VANDAL PROOF SCREWS. WITH 0" TO 3/4" ADJUSTABLE STRAINER. FOR USE IN SUSPENDED SLABS WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
FCO	SIOUX CHIEF	822 SERIES	FINISH-LINE HALO SYSTEM, ENAMEL-COATED DUCTILE IRON BODY WITH NO-HUB CONNECTION, WITH 18 GAUGE STAINLESS STEEL DECK MOUNTING FLANGE 9 1/2" IN DIAMETER. WITH BRONZE FLOOR CLEANOUT COVER WITH VANDAL PROOF SCREWS. WITH 0" TO 3/4" ADJUSTABLE STRAINER. FOR USE IN SUSPENDED SLABS WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
TG-1	RECTORSEAL	SURESEAL	TRAP GUARD: INLINE HDPE HOUSING WITH INLINE DIAPHRAGM AND SOFT EPDM RUBBER SEALING GASKET PER ASSE 1072.
LV-1	ТОТО	LT307.4	WALL HUNG SINK (SINGLE): $20-7/8"x18"$ VITREOUS CHINA LAVATORY BASIN, WITH CONCEALED CARRIER ARM, $4"$ CENTERS, $4"$ TAIL PIECE, AND $1-1/2"$ GRID STRAINER OPENING, ADA COMPLIANT.
	KOHLER	K-99760-4N	FAUCET: SINGLE LEVER OPERATED 0.5 GPM, MATTE BLACK FINISH 4-1/4" TALL 4-3/16" REACH RIGID SPOUT WITH SINGLE HOLE MOUNT. CERAMIC DISK VALVES. MEETS NSF/ANSI 61.
MXV	WATTS	SERIES LM495	THERMOSTATIC TEMPERING VALVE CONSTRUCTED OF SOLID BRASS. ALL INTERNAL COMPONENTS SHALL BE CORROSION—RESISTANT. VALVE SHALL FEATURE INTERNAL CHECK TO PREVENT CROSS—FLOW AND INLET SCREENS TO FILTER OUT DEBRIS. VALVE SHALL BE CSA B125 CERTIFIED, ASSE 1016 AND 1070 LISTED. 1/2" INLETS, 1/2" OUTLET.
			PROVIDE OFF-SET GRID STRAINER AND TAILPIECE WITH 1-1/2" 17-GAUGE CHROME-PLATED SEMI-CAST BRASS OFF-SET P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL WITH ESCUTCHEON, RISERS WITH LEAD FREE CHECK VALVES AND LEAD FREE QUARTER TURN LOOSE KEY ANGLE STOPS. WHERE PIPING AND ACCESSORIES ARE EXPOSED BELOW COUNTERTOP, PROVIDE ADA COMPLIANT VANDAL RESISTANT INSULATED COVERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
			REPER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
S-1	ELKAY	ELUH281610PD	SINK: UNDER COUNTER MOUNTED 30-3/4"x18-1/2"x10" DEEP SINGLE COMPARTMENT 18 GAUGE 304 STAINLESS STEEL WITH SATIN FINISH, 1.5" DRAIN OPENING, HEAVY DUTY SOUND GUARD UNDERCOATING. SEAL LIP OF SINK BASIN TO UNDERSIDE OF COUNTERTOP WITH SILICONE CAULK. PROVIDE UNDERMOUNT BRACKETS.
	DELTA	TRINSIC (LS)9159-ARLS-DST	FAUCET: MANUAL, MATTE BLACK FINISH, 16-5/8" TALL 9" REACH GOOSENECK, 140° LIMITED SWIVEL SPOUT, 1-HOLE CENTER DECK MOUNT, LEVER HANDLE, LEAD-FREE, WITH A FLOW RATE OF 1.5 GPM, AND INTEGRAL NECK PULL DOWN SPRAYER. PROVIDE ASSE 1070 COMPLIANT TEMPERATURE MIXING VALVE. MEETS NSF/ANSI COMPLIANT.
MXV	WATTS	SERIES LM495	THERMOSTATIC TEMPERING VALVE CONSTRUCTED OF SOLID BRASS. ALL INTERNAL COMPONENTS SHALL BE CORROSION—RESISTANT. VALVE SHALL FEATURE INTERNAL CHECK TO PREVENT CROSS—FLOW AND INLET SCREENS TO FILTER OUT DEBRIS. VALVE SHALL BE CSA B125 CERTIFIED, ASSE 1016 AND 1070 LISTED. 1/2" INLETS, 1/2" OUTLET.
	INSINKERATOR	BADGER 5	GARBAGE DISPOSAL: CONTINUOUS FEED WITH WALL SWITCH ON/OFF CONTROL. 120V/1 PHASE/60 HZ, 1/2 HP MOTOR WITH MANUAL RESET OVERLOAD. PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS. STAINLESS STEEL GRINDING ELEMENTS WITH TWO 360 DEGREE SWIVEL LUGS. OVERALL HEIGHT OF 11-1/2". 1-1/2" CUSHIONED SLIP JOINT DRAIN CONNECTION. PROVIDE DISHWASHER DRAIN CONNECTION AND FACTORY INSTALLED POWER CORD.
			PROVIDE OFF-SET GRID STRAINER AND TAILPIECE WITH 1-1/2" 17-GAUGE CHROME-PLATED SEMI-CAST BRASS OFF-SET P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL WITH ESCUTCHEON, RISERS WITH LEAD FREE CHECK VALVES AND LEAD FREE QUARTER TURN LOOSE KEY ANGLE STOPS. WHERE PIPING AND ACCESSORIES ARE EXPOSED BELOW COUNTERTOP, PROVIDE ADA COMPLIANT VANDAL RESISTANT INSULATED COVERS.
WC-1	тото	CWT427227CMFG#MS	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. WATER CLOSET: WHITE VITREOUS CHINA WITH ANTI-MICROBIAL CERAMIC GLAZE, 1.28/.09 GPF
WC-1		, "	DUAL FLUSH SYSTEM, D-SHAPE BOWL, WALL MOUNTED, COMPACT.
	тото	WT172M	CARRIER: IN-WALL CARRIER AND TANK UNIT, 1.28/0.9 GPF DUAL FLUSH SYSTEM. 1/2" NPT WATER SUPPLY CONNECTION WITH ADDITIONAL 1/2" NPT WATER SUPPLY CONNECTION FOR WASHLET. RATED FOR 880 LB. MEETS ASME A112.6.2. PROVIDE WITH FLUSH SYSTEM PUSH PLATE IN WHITE FINISH.
	тото	SS227#01	TOILET SEAT: SOLID PLASTIC D-SHAPED SEAT WITH SOFTCLOSE SYSTEM. INTEGRAL BUMPERS. HINGES TO BE COLOR MATCHED WITH METAL STUD AND NUT. PROVIDE MANUFACTURER'S MOUNTING HARDWARE
			REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
WB-1	SIOUX CHIEF	696 SERIES	ICE MAKER WALL BOX: NSF-372 COMPLIANT, WITH ASSE1010 MINI ARRESTOR. STANDARD PACK WITH WHITE FRAME.PROVIDE BOX WITH EXTENSION COLLAR AND TRIM RING. MOUNT WITHIN CASEWORK.
UR-1	тото	UT105UVG	URINAL: WHITE VITREOUS CHINA WITH ANTI-MICROBIAL CERAMIC GLAZE, WALL HUNG, WASHOUT FIXTURE. 0.125 GPF WITH 3/4" BACK SPUD.
	тото	TEU2UA11#SS	FLUSH VALVE: CONCEALED CHROME FINISH, 0.125 GPF, POWERED WITH SENSOR OPERATED PISTON TYPE FLUSH VALVE, WITH MANUAL MECHANICAL OVERRIDE BUTTON. PROVIDE MANUFACTURER'S HYDROPOWERED ENERGY GENERATING ACCESSORY. BRASS PISTON WITH CHLORAMINE RESISTANT EPDM SEAT AND SEALS, SELF CLEANING MECHANISM, ESCUTCHEON, INTEGRAL QUARTER TURN LOOSE KEY ANGLE STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT.
			FLOOR MOUNTED CARRIER WITH HANGER PLATE AND BEARING PLATE BY J.R. SMITH. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
MB-1	STERN-WILLIAMS	SB-902	24"x24"x12" MOP SERVICE BASIN, CAST BRASS DRAIN, STAINLESS STEEL DOME STRAINER, 3" DRAIN CONNECTION, WITH STAINLESS STEEL BUMPER GUARD ON ALL SIDES, 10" STAINLESS STEEL BACK PANEL ON TWO SIDES. WILLIAMS NO. T-35 3 FT. RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET. PROVIDE WALL HUNG MOP RACK.
	ZURN	Z8431M1-RC	SERVICE SINK FAUCET, POLISHED CHROME FINISH, BUILT-IN STOPS, LEVER HANDLES, LOWER WALL BRACE ASSEMBLY, VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, PAIL HOOK, AND INTEGRAL STOPS.

----- EXISTING TO REMAIN ---- EXISTING TO BE REMOVED ————— COLD WATER (CW) ———— HOT WATER (HW) SAN SANITARY WASTE, ABOVE GRADE — — SAN — — SANITARY WASTE, BELOW GRADE STORM LINE, ABOVE GRADE — ST — STORM LINE, BELOW GRADE ---- PLUMBING VENT ——D—— INDIRECT DRAIN PITCH UP/DN IN FLOW OF ARROW FLOW ARROW TEMPERED WATER HB HOSE BIBB (HB) OR WALL HYDRANT (WH) FLOOR CLEANOUT WALL CLEANOUT —— wco <u>—</u>со FLOOR DRAIN, ROUND FLOOR SINK **G**→ ELBOW DOWN O+---- ELBOW UP C C TEE DOWN **├───** TEE UP END CAP CHECK VALVE REDUCER - CONCENTRIC REDUCER - ECCENTRIC → UNION – SCREWED → SHUT-OFF VALVE DEMOLITION PLUMBING PLAN NOTE PLUMBING PLAN NOTE FIRE PROTECTION PLAN NOTE FIXTURE IDENTIFICATION REVISION NOTE POINT OF CONNECTION NEW/EXISTING AFF/AFG ABOVE FINISHED FLOOR/GRADE CW COLD WATER

ETR

EWC

MXV

UR

EXISTING TO REMAIN

GARBAGE DISPOSER

FILTERED WATER

HOT WATER

LAVATORY

MOP BASIN

MIXING VALVE

SANITARY WASTE

WATER CLOSET

NOTE: NOT ALL SYMBOLS AND ABBREV. ARE APPLICABLE TO THIS PROJECT.

MARK DESCRIPTION C.W. H.W. WASTE VENT REMARKS

WALL HYDRANT

FIXTURE BRANCH SCHEDULE

FD | FLOOR DRAIN | - | - | * | 2" |

OTHERWISE.

URINAL 3/4" - 2" 2" 2"

NOTE: PIPE SIZES SHOWN ARE MINIMUM AND REQUIRED UNLESS NOTED

WALL HUNG

ELECTRIC WATER COOLER

HOT WATER CIRCULATION

NON- POTABLE COLD WATER

TEMPERED HOW WATER

TR TEMPERED HOT WATER RETURN

PLUMBING SYMBOLS LEGEND

PLUMBING GENERAL NOTES

SPECIFICATIONS, REFER TO "MECHANICAL" AND "PLUMBING" SECTION SERIES "GENERAL CONDITIONS"/ "SUMMARY OF WORK" SECTIONS AND ELSEWHERE I DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS FOR PLUMBING CONTRACTOR.

- . CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS AND FIELD VERIFY ALL EXISTING UTILITY CONNECTION BOCOMENTS AND FIELD VERIFT ALL EXISTING UTILITY
 CONNECTIONS & COORDINATE WORK WITH OTHER TRADES PRIOR TO FLOOR
 CUTTING, LAYOUT OF PIPING, SUBMITTAL OF SHOP DRAWINGS OR ORDERING
 OF EQUIPMENT. IF ITEMS ARE DISCOVERED THAT AFFECT THE COMPLETION OF EQUIPMENT. IF TIEMS ARE DISCOVERED THAT AFFECT THE COMPLETION OF PROJECT WORK, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AT THIS TIME. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
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- D. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE
- DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPE, CONNECTIONS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES ETC.
- REFER TO PLUMBING DETAIL SHEETS FOR SCHEDULES, DETAILS, AND FIXTURE CONNECTION SCHEDULES FOR FINAL PIPE CONNECTION SIZES TO FIXTURES. . SUSPEND ALL HORIZONTAL SERVICE PIPING SHOWN ON THIS PROJECT SUCH AS, BUT NOT LIMITED TO, WATER, CHEM WASTE/ VENT, SAN. WASTE/VENT, GAS. ETC. FROM UNDERSIDE OF ROOF AND/OR FLOOR STRUCTURE, UNLESS OTHERWISE NOTED OR INDICATED. HOLD SUCH PIPING HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS, CHASES, ETC.. TO SERVE
- FIXTURES AND EQUIPMENT AS SHOWN ON PLANS. PROVIDE GUARD (TG-1) ON ALL FLOOR DRAINS AND FLOOR SINKS.

M. DEAD LEGS LONGER THAN 24" ARE PROHIBITED IN DOMESTIC HOT WATER

- REFER TO LABORATORY EQUIPMENT DRAWINGS FOR FINAL EQUIPMENT
- CONNECTION REQUIREMENTS, I.E. LOCATION AND SIZE.

WC WATER CLOSET 3/4" - 3" 2" FLUSH TANK FLOOR MOUNTED ALL VALVES FOR MAINTENANCE SHUT OFF SHALL BE IN AN ACCESSIBLE SINK | 1/2" | 1/2" | 1 1/2" | COUNTER MOUNTED SEAL ALL PIPE PENETRATIONS THROUGH FLOOR WITH A WATER TIGHT SEAL. LV | LAVATORY | 1/2" | 1/2" | 1 1/2" | 1 1/2" | WALL HUNG REFER TO PIPE THROUGH CONCRETE FLOOR DETAIL ON DETAIL SHEET. MB MOP BASIN 1/2" 1/2" 3" 2" FLOOR MOUNTED

INSPECTIONS REQUIRED BY CODE.

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1 City Comments & 08.08.2023 VE Revisions



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PLUMBING LEGEND AND SCHEDULES

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PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE BRONZE PLUG IN CAST IRON BODY. MEMBRANE CLAMP —___ ← FLOOR SLAB ON GRADE AS REQUIRED FOR DEPTH OF SEWER ∠─ SAME SIZE AS SEWER UP TO 4" MAXIMUM HUB AND SPIGOT ∠ LONG SWEEP ELBOW AT CAST IRON PIPE END OR TURN OF RUN BELOW FLOOR COMBINATION WYE AND SANITARY OR STORM
SEWER LINE

COMBINATION WYE AND
EIGHTH BEND IN RUN.
ENTER TOP OF PIPE LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS.
LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS. **FLOOR CLEANOUT** NOT TO SCALE PD78 ─ IF WALL IS NEW CON— IF WALL IS EXISTING STRUCTION OF STUD CONCRETE, CORE AND SHEATHING. CIR-DRILL AND PROVIDE

ABOVE GROUND

<u>UNDERGROUND</u>

REFER TO SPECIFICATIONS FOR ALTERNATIVE INSTALLATIONS, AND FOR FURTHER INFORMATION ABOUT SLEEVES AND SEALANTS.

PENETRATION OF EXTERIOR WALL

FLOOR DRAIN FOR NEW CONSTRUCTION

FLOOR DRAIN DETAIL

OAKUM AND SEALANT

IF WALL IS NEW CON-

STRUCTION OF MASON-

RY UNIT OR POURED

STEEL PIPE SLEEVE WITH

AND ANNULAR RING FOR

WATER STOP BY THUN--

LINE. SET FLUSH WITH

BOTH SIDES OF WALL

PROVIDE THUNDERLINE

"LINK-SEAL" DEVICE

IN ANNULAR SPACE,

MECHANICAL DEVICE

WITH INTERLOCKING

SYNTHETIC RUBBER LINKS, STAINLESS

PRESSURE PLATES —

STEEL BOLTS AND

WATERPROOF MEMBRANE -

SLOPE TO DRAIN

ALENT MODULAR

OR APPROVED EQUIV-

AND GROUT IN. OR POUR WALL IN PLACE

CONCRETE, PROVIDE

PROTECTIVE COATING,

ANCHOR COLLAR AND

CLE CUT WALL, PRO-

∠VIDE STEEL SLEEVE

SILICONE SEALANT

- PACK ANNULAR

) CAULKED INTO PLACE.

PROVIDE OAKUM AND

SPACE WITH OAKUM

PROOF NON-SHRINK

ON INSIDE AND OUT-

SIDE FLUSH WITH WALL

SILICONE SEALANT

EXPOSED PIPE IN

FINISHED SPACE

SHALL HAVE AN

ESCUTCHEON TO

COVER OPENING.

) SPACE OR CON-

PIPE IN UNFINISHED

CEALED WILL NOT

- IF WALL IS EXISTING

DRILL AND PROVIDE "LINK—SEAL" DEVICE

— DRAIN BODY SEE PLANS FOR SIZE

─ FLOOR SLAB

- MEMBRANE CLAMP

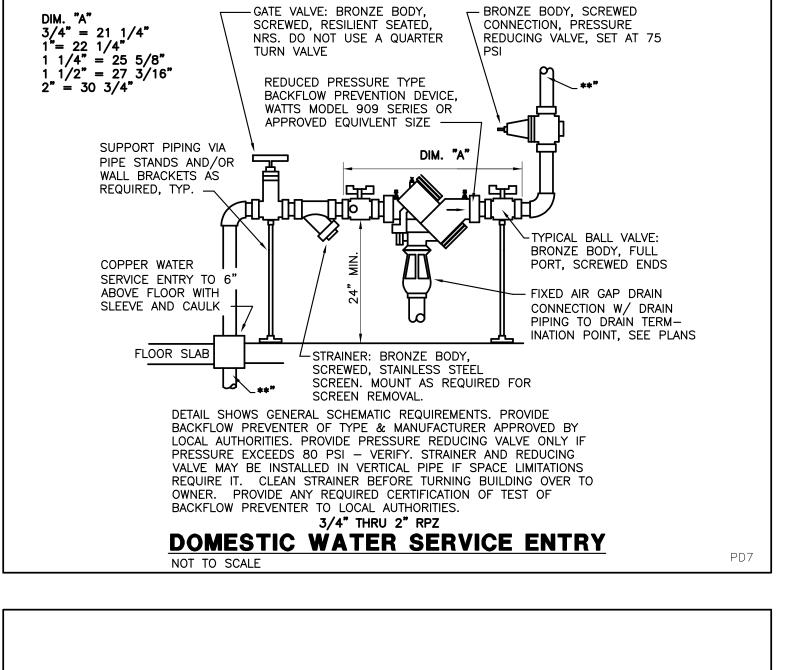
PD167

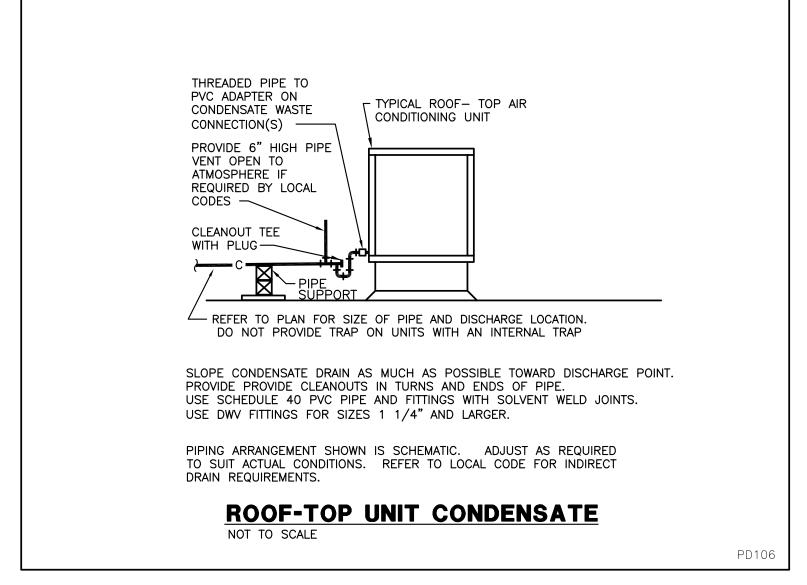
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CONCRETE, CORE

L BASEMENT OR TUNNEL

AND PROVIDE WATER-





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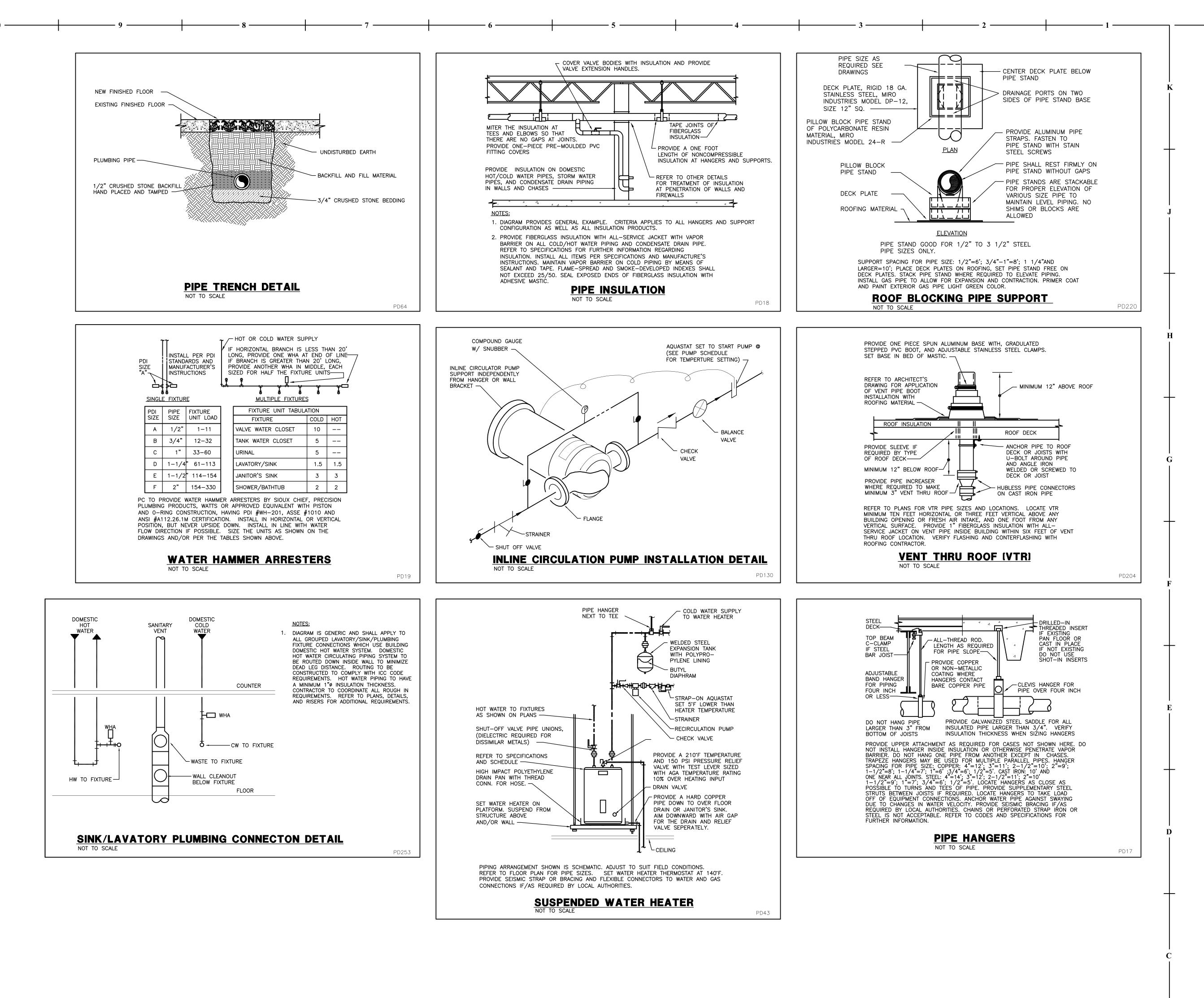
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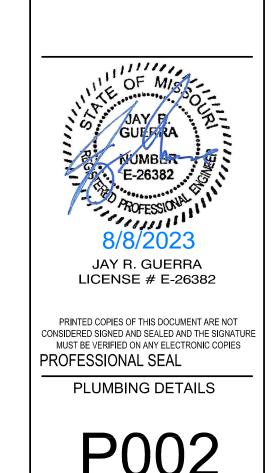
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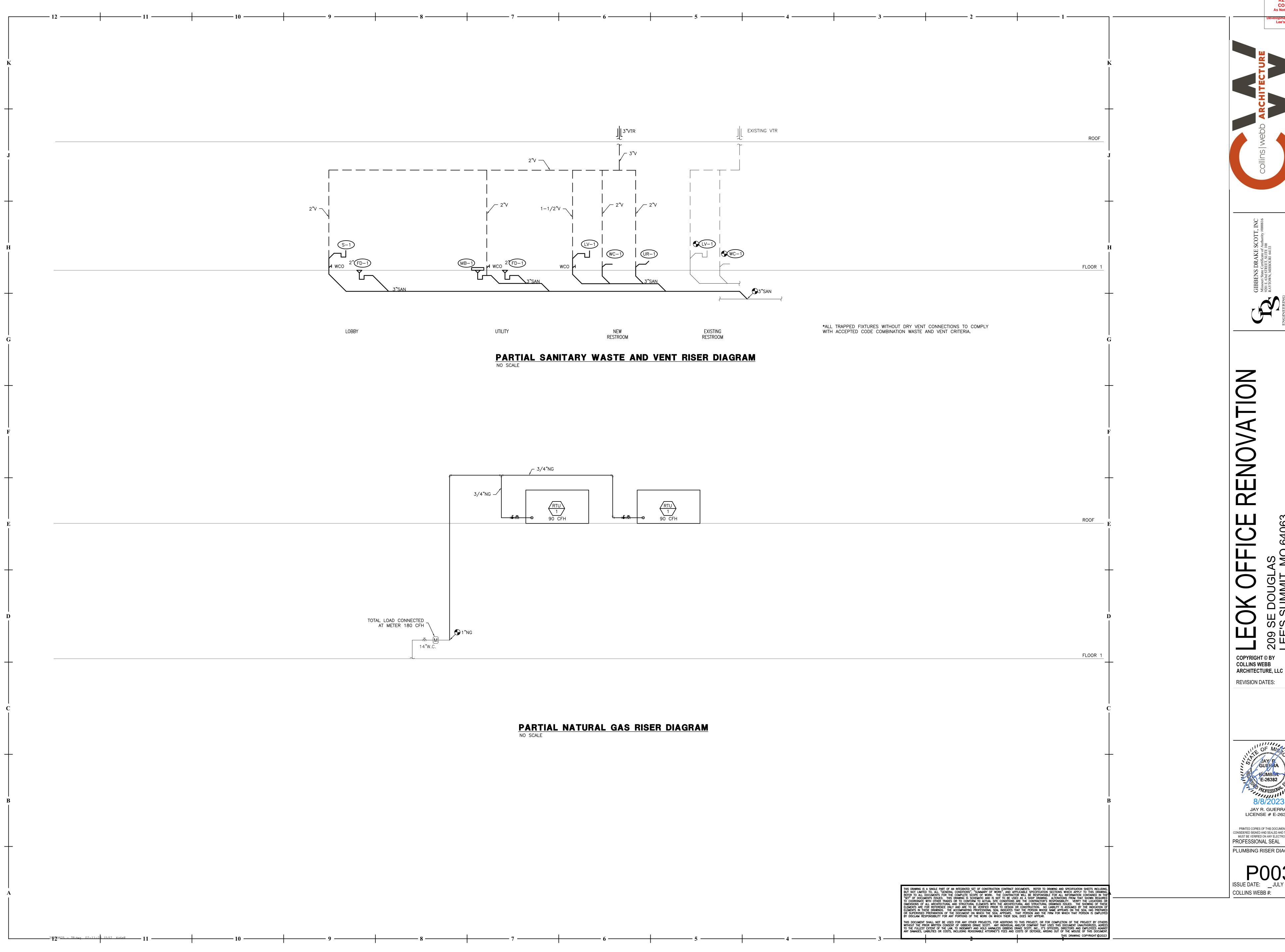
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PROFESSIONAL SEAL PLUMBING RISER DIAGRAMS

COLLINS WEBB #: 23033

PLUMBING GENERAL NOTES

- A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE
- B. SPECIFICATIONS, REFER TO "MECHANICAL" AND "PLUMBING" SECTION SERIES, "GENERAL CONDITIONS"/ "SUMMARY OF WORK" SECTIONS AND ELSEWHERE IN DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS FOR PLUMBING CONTRACTOR.
- C. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS AND FIELD VERIFY ALL EXISTING UTILITY CONNECTIONS & COORDINATE WORK WITH OTHER TRADES PRIOR TO FLOOR CUTTING, LAYOUT OF PIPING, SUBMITTAL OF SHOP DRAWINGS OR ORDERING OF EQUIPMENT. IF ITEMS ARE DISCOVERED THAT AFFECT THE COMPLETION OF PROJECT WORK, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AT THIS TIME. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- E. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- F. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPE, CONNECTIONS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- G. SUSPEND ALL HORIZONTAL SERVICE PIPING SHOWN ON THIS PROJECT SUCH AS, BUT NOT LIMITED TO, WATER, CHEM WASTE/ VENT, SAN. WASTE/VENT, GAS, ETC. FROM UNDERSIDE OF ROOF AND/OR FLOOR STRUCTURE, UNLESS OTHERWISE NOTED OR INDICATED. HOLD SUCH PIPING HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS, CHASES, ETC.. TO SERVE FIXTURES AND EQUIPMENT AS SHOWN ON

PLUMBING PLAN DEMOLITION NOTES

(1) DISCONNECT AND REMOVE ALL ABOVE GRADE PLUMBING PIPING, EQUIPMENT, AND ACCESSORIES. SANITARY PIPING TO BE REMOVED TO BELOW FLOOR LINE AND CAPPED. PATCH AND REPAIR FLOOR PER ARCHITECTURAL SPECIFICATIONS.

PLUMBING PLAN NOTES

- (1) EXISTING BELOW GRADE SANITARY PIPING IS UNKNOWN. CONTRACTOR MAY CHOOSE TO USE EXISTING BELOW GRADE SANITARY PIPING UPON VERIFICATION OF SUFFICIENT SIZE (3" OR LARGER), DEPTH, AND HAS INSPECTED AND IDENTIFIED ANY DEFICIENCIES IN THE LINE.
- (2) CONTRACTOR TO FIELD VERIFY EXISTING DOMESTIC WATER ENTRY. PREVENTER. IF BACKFLOW PREVENTER IS NOT INSTALLED, PROVIDE AND INSTALL NEW BACKFLOW PREVENTER AT WATER ENTRY PER WATER ENTRY DETAIL ON DETAIL SHEETS.
- (3) SAW CUT FLOOR AS REQUIRED FOR NEW BELOW GRADE PIPING INDICATED. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SAW CUTTING. PATCH AND REPAIR FLOOR PER ARCHITECTURAL SPECIFICATIONS.
- 4) PROVIDE FLOOR DRAIN FD-1 AT SIZE INDICATED ON PLANS. INSTALL PER COMBINATION WASTE & VENT CRITERIA UNLESS A DRY VENT CONNECTION IS SHOWN. REFER TO PLUMBING FIXTURE SCHEDULE AND
- FIXTURE BRANCH SCHEDULE FOR ADDITIONAL INFORMATION (5) PROVIDE NEW ELECTRIC WATER HEATER EWH-1 SUSPENDED FROM STRUCTURE ABOVE. PROVIDE 1" DOMESTIC COLD WATER AND 1" DOMESTIC HOT WATER CONNECTIONS WITH ISOLATION VALVES. PROVIDE HARD COPPER T&P RELIEF AND DRAIN LINES FROM WATER HEATER TO
- DETAILS SHEETS. (6) PROVIDE NEW HOT WATER CIRCULATION PUMP PP-1. REFER TO DETAILS

ADJACENT MOP SINK AND TERMINATE WITH INDIRECT WASTE. REFER TO

- (7) ROUTE 2" VENT, 3/4" DOMESTIC COLD WATER, 3/4" DOMESTIC HOT WATER, AND 3/4" RECIRCULATION LINE DOWN IN CHASE, THROUGH
- CASEWORK TO SINK S-1. (8) provide 3/4" domestic cold water drop down in chase to within |CASEWORK UNDER SINK S-1. PROVIDE 1/2" CONNECTION FOR SINK S-1 AND 3/4" CONNECTION WITH ACCESSORIES TO SERVE ICE MAKER
- (BY OTHERS). REFER TO DETAILS SHEETS. (9) ROUTE 3/4" FILTERED DOMESTIC WATER BELOW GRADE TO SERVE ICE MAKER (BY OTHERS). INSULATE BELOW GRADE PIPING WITH 1-1/2" CELLULAR GLASS INSULATION RATED FOR DIRECT-BURY (FOAMGLAS OR APPROVED EQUIVILENT). STUB UP IN CASEWORK AND CONNECT TO WALL
- BOX WB-1. (10) PROVIDE NEW COUNTER MOUNT SINK S-1. PROVIDE 1/2" DOMESTIC HOT AND COLD WATER CONNECTIONS, 2" SANITARY WASTE, AND 2" VENT. REFER TO FIXTURE BRANCH SCHEDULE AND PLUMBING FIXTURE SCHEDULE. DEAD LEGS LONGER THAN 24" ARE PROHIBITED IN HOT
- (11) provide New Wall mounted flush valve water closet WC-1. PROVIDE 3/4" COLD WATER CONNECTION WITH ISOLATION VALVE IN CEILING ABOVE AND STOP VALVE AT WALL. PROVIDE 3" SANITARY WASTE TO BELOW GRADE AND 2" VENT TO CEILING ABOVE. REFER TO FIXTURE BRANCH SCHEDULE AND PLUMBING FIXTURE SCHEDULE.

WATER SYSTEM.

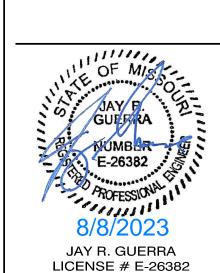
- (12) PROVIDE NEW WALL MOUNTED LAVATORY L-1. PROVIDE 1-1/2" SANITARY WASTE TO BELOW GRADE, 1-1/2" VENT TO CEILING ABOVE. PROVIDE 1/2" DOMESTIC HOT AND COLD WATER CONNECTIONS. REFER TO FIXTURE BRANCH SCHEDULE AND PLUMBING FIXTURE SCHEDULE.
- DEAD LEGS LONGER THAN 24" ARE PROHIBITED IN HOT WATER SYSTEM. (13) PROVIDE NEW WALL MOUNTED FLUSH VALVE WATER CLOSET WC-1. CONNECT INTO EXISTING DOMESTIC COLD WATER AND SANITARY WASTE AND VENT CONNECTIONS. INSPECT EXISTING PIPING PRIOR TO INSTALLATION OF NEW WATER CLOSET AND REPAIR/REPLACE AS
- 14 PROVIDE NEW WALL MOUNTED LAVATORY L-1. PROVIDE NEW 1/2" DOMESTIC HOT WATER CONNECTION FOR LAVATORY. CONNECT INTO EXISTING DOMESTIC COLD WATER AND SANITARY WASTE AND VENT CONNECTIONS. INSPECT EXISTING PIPING PRIOR TO INSTALLATION OF NEW WATER CLOSET AND REPAIR/REPLACE AS REQUIRED.
- (15) PROVIDE NEW WALL MOUNTED URINAL UR-1. PROVIDE 3" SANITARY WASTE TO BELOW GRADE AND 2" VENT TO CEILING ABOVE. PROVIDE 3/4" DOMESTIC COLD WATER CONNECTION WITH ISOLATION VALVE IN CEILING ABOVE REFER TO FIXTURE BRANCH SCHEDULE AND PLUMBING FIXTURE SCHEDULE.
- (16) ROUTE EXPOSED PIPING TIGHT TO STRUCTURE AND AND WALL. COORDINATE WITH ARCHITECT FOR PAINTING AND COLOR REQUIREMENTS.
- (17) EXISTING NATURAL GAS SERVICE TO REMAIN. DISCONNECT AND REMOVE ALL PIPING DOWNSTREAM OF METER AND REGULATOR PER PLUMBING DEMOLITION NOTE 1. PROVIDE NEW 1" NATURAL GAS PIPING UP TO ROOF ABOVE.
- (18) PROVIDE 3/4" NATURAL GAS CONNECTION TO ROOFTOP UNIT WITH REGULATOR AND ISOLATION VALVE. REFER TO ROOFTOP UNIT CONNECTION ON DETAILS SHEET.
- (19) PROVIDE 3/4" DOMESTIC HOT WATER PIPING DOWN IN CHASE TO WITHIN | R CASEWORK UNDER SINK S-1. PROVIDE 1/2" BRANCH TEE CONNECTION FOR SINK S-1 AND 1/2" BRANCH TEE CONNECTION FOR DISHWASHER (BY OTHERS). DEAD LEGS LONGER THAN 24" ARE PROHIBITED. REFER

CONSTRUCTION As Noted on Plans Review

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PLUMBING PLAN

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MECHANICAL GENERAL PROVISIONS

A. ALL APPLICABLE PROVISIONS OF THE CONTRACT DOCUMENTS SHALL GOVERN DIVISION 23 AND 26. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIALS, EQUIPMENT, APPARATUS, MECHANICAL/ELECTRICAL SYSTEMS AND INCIDENTALS REQUIRED FOR COMPLETE AND WORKING INSTALLATION. HE SHALL SUPPLY ALL NECESSARY LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES, SERVICES; AND HE SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS. STANDARDS, REGULATIONS AND CODES

A. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, THE NATIONAL ELECTRIC CODE AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY

B. THE CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED THEREWITH.

C. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM MECHANICAL/ELECTRICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND

LOCAL CONDITIONS A. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE LOCAL CONDITIONS AND EXISTING INSTALLATIONS, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. HE SHALL LOCATE ALL EXISTING UTILITIES AND PROTECT THEM DURING THE EXECUTION OF THE WORK.

B. HE SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACT.

C. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

A. CONNECT TO EXISTING UTILITY SERVICES WITHIN THE BUILDING INCLUDING FIRE AND ELECTRICAL. FIELD VERIFY EXACT LOCATION OF ALL UTILITIES.

A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, AND NOISE LEVEL, ETC.

A. ALL NECESSARY CUTTING, DRILLING AND PATCHING SHALL BE PROVIDED BY THIS CONTRACTOR. STRUCTURAL MEMBERS SHALL NOT BE DISTURBED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEATLY REPAIRED AND REFINISHED TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SUITABLE TO THE OWNERS AUTHORIZED

B. REPAIR ANY DAMAGE RESULTING FROM CONSTRUCTION INCLUDING BUT NOT LIMITED TO FINISHES AND FIRE PROOFING MEMBRANES. ALL REPAIRS SHALL MATCH EXISTING OPERATION DURING CONSTRUCTION

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OPERATION, SERVICE AND MAINTENANCE OF ALL NEW EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT. WARRANTY PERIODS SHALL NOT COMMENCE UNTIL FINAL ACCEPTANCE BY THE OWNER.

B. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE, ALL TEMPORARY HEAT. WATER AND SEWER REQUIRED TO PROTECT THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE SAFETY REGULATIONS

A. ALL MECHANICAL/ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. PROVIDE SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED.

HOUSEKEEPING

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCKS OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER. B. THE CONTRACTOR SHALL CLEAN AND MAINTAIN HIS PORTION OF THE WORK AS SPECIFIED IN THE GENERAL CONDITIONS. C. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIAL PRESENT AS A RESULT OF HIS WORK.

COORDINATION MOUNT MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT TO PROVIDE RECOMMENDED WORKING CLEARANCES AND ACCESS TO ALL COMPONENTS. PROVIDE ACCESS TO FILTERS, COMPRESSORS, CONTROLS AND MOTORS WITHOUT REMOVING EQUIPMENT. COORDINATE WITH ALL TRADES SO THAT NO PIPING, CONDUIT, DUCT OR STRUCTURAL MEMBER OBSTRUCTS REQUIRED ACCESS OR IS BENEATH EQUIPMENT SHOULD REMOVAL EVER BE

GRANTING ADDITIONAL COMPENSATION. B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF COORDINATION DRAWING(S) OF ANY AND ALL AREAS WHERE SPACE IS LIMITED OR COORDINATION OF TRADES IS PARTICULARLY CRITICAL AND ELSEWHERE AS REQUIRED BY THE DOCUMENTS. INCLUDE THE WORK OF ALL TRADES IN THIS DRAWING.

REQUIRED. NOTIFY ARCHITECT/ENGINEER OF ANY ACCESS OR MOUNTING CONFLICTS PRIOR TO INSTALLATION. FAILURE TÓ COORDINATE WILL NOT BE CONSIDERED A BASIS FOR

A. CONNECTION TO THE EXISTING BUILDING PLUMBING, HEATING, COOLING, VENTILATION, PIPING, ELECTRICAL, ETC., MUST BE ACCOMPLISHED UNDER THIS CONTRACT. SYSTEM "DOWNTIME" DUE TO CONNECTION SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE OWNER'S REPRESENTATIVE SHALL JUDGE IF AT WHAT TIME, AND FOR WHAT LENGTH OF TIME A SHUT-

CONNECTION AND ALTERATION TO EXISTING SYSTEMS

DOWN CAN BE TOLERATED.

B. PROVIDE ALL TEMPORARY PIPING AND WIRING SYSTEMS REQUIRED DURING CONSTRUCTION IN ORDER TO KEEP ALL EXISTING SYSTEMS FUNCTIONING. DEMOLITION, CUTTING AND PATCHING TO RESTORE SURFACES TO ORIGINAL CONDITION AS NECESSITATED FOR ACCESS TO WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. GRAPHIC REPRESENTATION AND JOB CONDITIONS

A. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM.

THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER THE MECHANICAL AND ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK. C. ARRANGE WORK IN A NEAT, WELL-ORGANIZED MANNER. COORDINATE WORK WITH OTHER TRADES INVOLVED. GUARANTEES

A. THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK, OR AS NOTED IN EACH SECTION.

A. THE MATERIALS, PRODUCTS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISH A STANDARD OF QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION. B. WHEREVER SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE ALL ITEMS OF COST OF THE REVISED DESIGN AND

SHOP DRAWINGS AND PRODUCT DATA

A. THE CHECKING OF SHOP DRAWINGS IS A GRATUITOUS ASSISTANCE AND IN NO WAY RELIEVES THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS, AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION. IN ADDITION, DUCTWORK AND FIRE SPRINKLER LAYOUT DRAWINGS SHALL BE SUBMITTED AS WELL AS PIPING DRAWINGS OF

OPERATING AND MAINTENANCE BROCHURE

A. AT THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL PROVIDE THREE (3) HARD BOUND VOLUMES OF MANUALS CONTAINING OPERATING SERVICE AND LUBRICATION INSTRUCTIONS, AND PARTS LISTS FOR ALL MAJOR EQUIPMENT AND MANUFACTURERS GUARANTIES OR WARRANTIES.

RECORD DRAWINGS A. REFER TO DIVISION 1 REQUIREMENTS FOR RECORD DRAWING SUBMISSION PROCEDURES.

A. THE CONTRACTOR SHALL PROVIDE CONCRETE BASES, HANGERS, AND FOUNDATIONS FOR ALL MACHINERY AND EQUIPMENT SPECIFIED OR SHOWN IN THIS CONTRACT, INCLUDING FANS, AIR CONDITIONING UNITS, PUMPS, MOTORS, ELECTRICAL GEAR, ETC., UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THIS CONTRACTOR SHALL TAKE ALL PRECAUTIONS AGAINST EXCESSIVE NOISE OR VIBRATION BY ISOLATING THE VARIOUS ITEMS OF EQUIPMENT FROM THE BUILDING'S STRUCTURE WITH EITHER SPRING, RUBBER IN SHEAR OR NEOPRENE PAD ISOLATORS AS INDICATED OR AS RECOMMENDED BY THE VIBRATION ISOLATION

B. ALL HANGERS, BRACKETS, CLAMPS, ETC., SHALL BE OF STANDARD WEIGHT STEEL. PERFORATED STRAP HANGERS SHALL NOT BE USED IN ANY WORK. WHEN TWO (2) OR MORE PIPES OR CONDUITS ARE RUN PARALLEL OR WHERE DUCTS INTERFERE WITH THE PROPER LOCATION OF HANGERS, THEY MAY BE SUPPORTED ON TRAPEZE HANGERS. OTHERS HANGERS SHALL BE HINGED RING MALLEABLE IRON, BY GRINNELL OR FEE AND MASON OR APPROVED EQUAL WITH RODS AND HANGER ADJUSTERS OF ADEQUATE SIZE TO CARRY THE LOADS IMPOSED. ALL PIPELINES, DUCTWORK AND CONDUIT SHALL BE INDEPENDENTLY SUPPORTED FROM EACH OTHER AND FROM EQUIPMENT.

PROVIDE FLEXIBLE CONNECTORS AT ALL ROTATING EQUIPMENT OR FOR EQUIPMENT MOUNTED ON VIBRATION ISOLATORS.

A. ALL MOTORS FURNISHED UNDER THIS SPECIFICATION SHALL BE RECOGNIZED MANUFACTURER, OF ADEQUATE CAPACITY FOR THE LOADS INVOLVED. ALL MOTORS SHALL CONFORM TO THE STANDARDS OF MANUFACTURER AND PERFORMANCE OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AS SHOWN IN THEIR LATEST PUBLICATIONS. B. ALL MOTORS 3/4 HP AND ABOVE SHALL BE HIGH EFFICIENCY ACCORDING TO IEEE 12. FUSED DISCONNECTS AND MOTOR STARTERS FOR EQUIPMENT SHALL BE FURNISHED BY THE TRADE SUPPLYING THE EQUIPMENT. INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE MANUAL OR MAGNETIC STARTERS WITH NECESSARY AUXILIARY CONTACTS AND HOA SWITCH FOR THE SPECIFIED SEQUENCE OF OPERATION. C. ALL TEMPERATURE CONTROLS UNLESS NOTED OTHERWISE SHALL BE BY THE ELECTRICAL PLUMBING SCOPE OF WORK

A. THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF PROVIDING ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC., NECESSARY TO COMPLETE THE INSTALLATION OF THE PLUMBING, SEWER SYSTEMS, AND OTHER ITEMS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED IN THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT/ENGINEER. PLUMBING WORK IS COMPRISED OF BUT NOT LIMITED TO THE

- SOIL, WASTE, AND VENT PIPING SYSTEMS. COLD WATER DISTRIBUTION SYSTEM. HOT WATER SUPPLY AND DISTRIBUTION SYSTEM.
- NATURAL GAS PIPING SYSTEM. PLUMBING FIXTURES. MISCELLANEOUS EQUIPMENT FOR SYSTEMS LISTED ABOVE.
- PIPING, FITTINGS AND VALVES

FOLLOWING PRINCIPAL ITEMS:

A. DOMESTIC WATER, INTERIOR, ABOVE GROUND -

AT EACH SOLENOID ACTUATED QUICK CLOSING VALVE.

1. PIPE, COPPER TUBE - TYPE "L" HARD TEMPER, WROUGHT COPPER FITTINGS, LEAD FREE 95/5 OR EAGLEHARD SILVABRITE SOLDER JOINTS. B. DOMESTIC WATER, INTERIOR, BELOW GROUND -

PIPE, COPPER TUBE — TYPE "K" HARD TEMPER, WROUGHT COPPER FITTINGS, LEAD FREE 95/5 OR

VALVES - BALL, NIBCO T-585-70; BUTTERFLY, NIBCO LD-3010; BALANCE, ARMSTRONG

3. SECURELY ANCHOR, WITH ADEQUATE PROVISIONS FOR EXPANSION AND CONTRACTION. GRADE LINES, FREE OF TRAPS, TO LOW POINT AT CUT-OFF AND DRAIN VALVE. VALVES WHERE INDICATED ON THE DRAWINGS. PROVIDE MANUFACTURED WATER HAMMER ARRESTOR FOR EACH FIXTURE OR FOR EACH BATTERY OF FIXTURES SIZED PER MANUFACTURERS RECOMMENDATION. AN ARRESTOR SHALL BE REQUIRED

4. PROVIDE SHUT OFF VALVES ON ALL HOT AND COLD WATER SUPPLY PIPING TO PLUMBING FIXTURES AND EQUIPMENT.

B. FIRE PROTECTION, INTERIOR -

PIPE - SCHEDULE 40, BLACK OR GALVANIZED STEEL, MALLEABLE IRON THREADED, FLANGED OR WELDED FITTINGS OR ROLL OR CUT GROOVE, MECHANICAL JOINT.

2. VALVES - GATE, UL AND FM APPROVED OS & Y, NIBCO T-104-0 OR F-607-0; CHECK, UL AND FM APPROVED, NIBCO F-908-B.

C. ABOVE GROUND, OUTDOOR NATURAL GAS -

1. PIPE - STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS. STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS. PIPE - STEEL PIPE WITH VIEGA MEGAPRESSG COLD PRESS MECHANICAL JOINT FITTINGS AND JOINTS.

D. INDOOR NATURAL GAS -

1. PIPE - STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS. - STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS PIPE - STEEL PIPE WITH VIEGA MEGAPRESSG COLD PRESS MECHANICAL JOINT FITTINGS AND JOINTS.

E. SANITARY SEWER, VENT, INTERIOR -

1. PIPE - CAST IRON HUB AND SPIGOT, WITH COMPRESSION GASKETS, NO HUB MECHANICAL JOINT VENTS MAY BE GALVANIZED MALLEABLE IRON.

ALL DRAINAGE SHALL BE GRADED PER CODE BUT NOT LESS THAN 1/8"/FT UNLESS

A. PROVIDE AT THE BASE OF EACH STACK OR RISER, EACH CHANGE IN 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 MARKERS 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. CLEANOUTS OUTSIDE THE BUILDING, EXTEND TO GRADE AND TERMINATE WITH X.H. SOIL PIPE CLEANOUT SET IN 12" SQUARE 6" THICK

B. CLEANOUT STYLES (FCO OR WCO).

1. UNFINISHED FLOORS - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG, SMITH

CARPETED FLOORS - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG. PROVIDE TOP WITH CARPET MARKER SCREW. SMITH 4020-Y.

VINYL TILE FLOOR - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG. PROVIDE TOP RECESSED FOR TILE, SMITH 4120.

4. WALL CLEANOUT - TAPER THREAD BRONZE PLUG STAINLESS STEEL WALL COVER, SMITH 4472. OMIT WALL COVER FOR EXPOSED PIPE.

A. PROVIDE BETWEEN EACH ITEM OF EQUIPMENT AND ITS SERVICE VALVE. COPPER TO FERROUS PIPE CONNECTIONS SHALL HAVE ISOLATION COUPLING OR UNION. 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 VACUUM BREAKER IN NON-PRESSURIZED SYSTEMS AND A REDUCED PRESSURE TYPE BACK-FLOW PREVENTER IN PRESSURIZED SYSTEMS.

B. PROVIDE BACKFLOW DEVICE ON ALL WATER AND FIRE SERVICES WHERE REQUIRED BY LOCAL

A. INSULATE ALL HOT AND COLD WATER PIPING ABOVE THE GROUND.

B. ABOVE GROUND, INTERIOR COLD AND HOT WATER PIPING INSULATION:

1. 1" FIBERGLASS SECTIONAL PIPE COVERING (WITH UNIVERSAL VAPOR BARRIER JACKET FOR COLD WATER). OWENS CORNING OR ACCEPTABLE EQUAL. AT CONTRACTOR

OPTION USE 1/2" ARMSTRONG AP OR ACCEPTABLE EQUAL ON COLD PIPING ONLY. C. BELOW GROUND, INTERIOR COLD AND HOT WATER PIPING INSULATION:

1. CELLULAR GLASS, 1-1/2" THICK. COMPLIANT WITH DIRECT-BURY APPLICATIONS, WITH PLASTIC MIL SHEATHING PROTECTION, SECUREMENT TAPE AND STAPLES.

D. SEAL ALL JOINTS ON COLD WATER INSULATION TO MAINTAIN VAPOR BARRIER.

F. PROVIDE STENCIL OR LABEL ON EXTERIOR OF INSULATION TO INDICATE PIPE SERVICE, FLOW DIRECTION, NOMINAL PIPE SIZE. STENCIL OR LABEL SHALL BE EASILY VISIBLE FROM GROUND LEVEL.

INSULATE AND PROVIDE PVC JACKET ON WASTE AND HOT WATER PIPES BELOW HANDICAP

TEST AND ADJUSTMENTS

END OF SECTION

A. SOIL, WASTE AND VENT PIPING: FILL WITH WATER TO THE TOP OF THE HIGHEST VENT LINE EXTENDING THROUGH

WATER LINES SHALL BE TESTED UNDER 150 LBS. HYDROSTATIC PRESSURE FOR

ROOF, AND ALLOW TO REMAIN FOR A PERIOD OF TWO HOURS.

WATER, 150 LBS. AIR PRESSURE FOR GAS FOR A PERIOD OF ONE HOUR. C. AFTER SUCCESSFUL TESTING, STERILIZE WATER SYSTEM WITH AN APPROVED SOLUTION IN ACCORDANCE WITH LOCAL HEALTH OFFICIALS. IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED

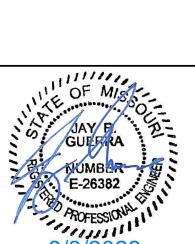
IN EITHER AWWA C651 OR AWWA C652.

TEST, INSPECT, AND PURGE NATURAL GAS ACCORDING TO NFPA 54, THE 2018 INTERNATIONAL FUEL GAS CODE, AND AUTHORITIES HAVING JURISDICTION. 2. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT AND APPROVE ALL COLD PRESS MECHANICAL JOINT FITTINGS IN NATURAL GAS SYSTEM.

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PLUMBING SPECIFICATIONS

JAY R. GUERRA

COLLINS WEBB #:

THIS DRAWING IS A SINGLE PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS. REFER TO DRAWING AND SPECIFICATION SHEETS INCLUDING, BUT NOT LIMITED TO, ALL "GENERAL CONDITIONS", "SUMMARY OF WORK", AND APPLICABLE SPECIFICATION SECTIONS WHICH APPLY TO THIS DRAWING. REFER TO ALL DOCUMENTS FOR THE COMPLETE SCOPE OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INFORMATION CONTAINED IN THE "SET" OF DOCUMENTS ISSUED. THIS DRAWING IS SCHEMATIC AND IS NOT TO BE USED AS A SHOP DRAWING, ALTERATIONS FROM THAT SHOWN REQUIRED TO COORDINATE WITH OTHER TRADES OR TO CONFORM TO ACTUAL SITE CONDITIONS ARE THE CONTRACTOR'S RESPONSIBILITY, VERIFY THE LOCATIONS OR DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS ISSUED. THE SHOWING OF THESE ELEMENTS ARE FOR REFERENCE ONLY AND ARE TO BE VERIFIED PRIOR TO DESIGN OR CONSTRUCTION. NO LIABILITY IS ASSUMED BY THE INDICATION OF ELEMENTS IN THESE DRAWINGS. THE ACCOMPANYING PROFESSIONAL SEAL INDICATES THAT THE PERSON WHOSE NAME APPEARS ON THE SEAL HAS PREPARED OR SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THAT PERSON IS EMPLOYED BY DISCLAIM RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR. THIS DOCUMENT SHALL NOT BE USED FOR ANY OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THE PROJECT BY OTHER WITHOUT THE PRIOR WRITTEN CONSENT OF GIBBENS DRAKE SCOTT. ANY INDIVIDUAL AND/OR COMPANY THAT USES THIS DOCUMENT UNAUTHORIZED, AGREE TO THE FULLEST EXTENT OF THE LAW, TO INDEMNIFY AND HOLD HARMLESS GIBBENS DRAKE SCOTT, INC., IT'S OFFICERS, DIRECTORS AND EMPLOYEES AGAINS ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF DEFENSE, ARISING OUT OF THE MISUSE OF THIS DOCUMEN

LUTRON IS THE BASIS OF DESIGN FOR ALL LIGHTING CONTROL COMPONENTS. OR EQUAL BY

- THE ABOVE DIAGRAM IS A SAMPLE CONNECTION DIAGRAM. INDIVIDUAL ROOMS/AREAS MAY DIFFER. POWER PACKS AND CONTROL WIRING ARE NOT INDICATED ON PLANS, NEVERTHELESS PROVIDE THESE AS REQUIRED FOR A FULLY FUNCTIONAL CONTROL SYSTEM. SEE THE FLOOR PLANS FOR SENSOR, LIGHT FIXTURE, AND COMPATIBLE SWITCH AND DIMMER LOCATIONS, TYPES, AND QUANTITIES. INSTALL THE QUANTITY OF POWER PACKS NECESSARY TO ACCOMMODATE ALL CONTROL ZONES, LIGHT FIXTURES WITH DIFFERENT VOLTAGES, AND LIGHT FIXTURES POWERED BY DIFFERENT CIRCUITS FOR A FULLY FUNCTIONAL CONTROL SYSTEM.
- REFER TO LATEST MANUFACTURER INSTRUCTIONS FOR EXACT WIRING REQUIREMENTS FOR CONTROL SYSTEM COMPONENTS.
- PROVIDE POWER PACKS COMPATIBLE WITH THE DIMMING DRIVERS/BALLASTS OF THE LIGHT FIXTURES THEY CONTROL: 0-10V, MLV, ELV, ETC. INSTALL CORRESPONDING CONTROL WIRING AS REQUIRED.
- LOWERCASE LETTERS NEXT TO SENSORS, LIGHT FIXTURES, DIMMERS, AND SWITCHES ON THE FLOOR PLANS INDICATE THE INTENDED CONTROL ZONING SCHEME. INSTALL, CONNECT, AND PROGRAM THE CONTROL SYSTEM DEVICES AND CABLING AS REQUIRED TO ACCOMPLISH THE SCHEME INDICATED.
 - TWO OR MORE LETTERS NEXT TO SENSORS OR DIMMERS INDICATES SIMULTANEOUS CONTROL OF THOSE ZONES BY THAT DEVICE.
 - b. NO LETTER INDICATES A SINGLE ZONE FOR THAT ROOM/AREA.
- PROGRAM DAYLIGHT SENSORS TO AUTOMATICALLY RAISE/LOWER LIGHT LEVELS IN RESPONSE TO DAYLIGHT AVAILABLE THROUGH NEARBY WINDOWS. PROGRAM SUCH THAT 50FC IS MAINTAINED ON THE WORK SURFACE IN THAT ZONE.
- INSTALL ADJACENT LIGHT SWITCHES AND DIMMERS UNDER A UNIFIED, SCREWLESS FACEPLATE.
- PROGRAM ALL SENSORS FOR AUTO ON/AUTO OFF. SET FOR 30 MINUITE TIME DELAY.
- PROVIDE 6'-0" OF SLACK CABLE AT CEILING SENSOR LOCATIONS TO ALLOW FOR SENSOR ADJUSTMENT FOR OPTIMAL PLACEMENT.
- EMERGENCY LIGHT FIXTURES SHALL OPERATE SIMULATNEOUSLY WITH FIXTURES IN THE SAME CONTROL ZONE. UPON LOSS OF NORMAL BRANCH POWER, EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE TO THE MAXIMUM LEVEL PROVIDED BY THE EMERGENCY BATTERY.
- WHERE A ZONE OF LIGHT FIXTURES CONTAINS FIXTURES WITH EMERGENCY BATTERY PACKS/DRIVERS, CONNECT BATTERY TO UNSWITCHED HOT CONDUCTOR.
- 12. EQUIPMENT FOR EMERGENCY LIGHTING SHALL BE UL924 LISTED.
- 13. LOCATE SENSORS AWAY FROM HVAC DIFFUSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- LIGHTING CONTROL WIRING IS NOT SHOWN ON THE FLOOR PLANS. NEVERTHELESS, INSTALL ALL REQUIRED WIRING BETWEEN THE POWER PACKS, SENSORS, WALL SWITCHES, AND WALL DIMMERS. INTERCONNECT PER MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE LIGHTING CONTROL SCHEME FOR EACH RESPECTIVE
- 15. INSTALL ALL REQUIRED 0-10V WIRING BETWEEN CONTROL SYSTEM AND LIGHT FIXTURES CONTROLLED BY A DIMMING SWITCH.
- 16. PROVIDE A COMPLETE CONTROL SYSTEM THAT COMPLIES WITH CURRENT APPLICABLE ENERGY CODE.

GENERAL ELECTRICAL NOTES <u>For remodel</u>

- A. ANY EXISTING EQUIPMENT, WIRING DEVICES, LIGHTS, CONDUIT, WIRING, CIRCUITING, ETC. NOT DISTURBED BY NEW CONSTRUCTION WORK SHALL BE MAINTAINED AND UNDAMAGED. THESE DEVICES, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL WORK TO BE DONE BY OBSERVATION AT THE JOB SITE. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANI LIFE INSTALLATION ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
- . THERE SHALL NOT BE ANY INTERRUPTION TO EXISTING SERVICES (ELECTRICAL, FIRE ALARM, ETC.) WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES . THIS CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO ANY EXISTING SYSTEMS WHICH ARE TO REMAIN, AND
- SHALL UPON COMPLETION, DELIVER ALL "RECORD" DRAWINGS TO THE OWNER INDICATING SUCH CHANGES. THIS CONTRACTOR SHALL MAINTAIN IN THE PROJECT CONSTRUCTION OFFICE, AS THE WORK, PROGRESSES, AN UP-TO-DATE, NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE. D. WHERE FEEDERS OR OTHER CIRCUITS ARE ABANDONED AND ARE CONCEALED IN WALLS OR FLOORS, SUCH CIRCUITS SHALL BE DISCONNECTED AT BOTH ENDS AND LABELED. ALL EXPOSED CONDUITS, CONDUITS ABOVE LAY—IN CEILINGS, OR EQUIPMENT WHICH IS
- ABANDONED SHALL BE REMOVED, UNLESS OTHERWISE NOTED .. . WHERE NEW ADDITION WORK OR REMODELING INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISTURBED. FXISTING CIRCUITS SHALL BE IN ROOMS OTHERWISE UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SERVICE. ALL EQUIPMENT, FIXTURES, PANELBOARDS, CONDUIT, WIRING, ETC. WHICH ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE BY THIS CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT OR
- . WHERE DEVICES, FIXTURES, OR EQUIPMENT ARE EXISTING IN SUITABLE LOCATION(S) FOR NEW CONSTRUCTION WORK AS INDICATED ON PLANS, EXISTING ROUGH—IN BOXES AND CONDUIT MAY BE UTILIZED IF THEY ARE OF PROPER SIZE, MATERIAL, AND NEW DEVICES AND WIRING ARE
- SUIT FIELD CONDITIONS, HOWEVER, CARE SHOULD BE USED TO KEEP DEVICES AND/OR FIXTURE CIRCUITS APPROXIMATELY AS INDICATED SO AS
- UNLESS NOTED OTHERWISE, WHERE DEVICES (WITH CONCEALED CONDUITS) ARE REMOVED LEAVING EXPOSED RACEWAYS, ETC. AFTER THE FINAL SURFACE IS APPLIED THEN BLANK STAINLESS STEEL COVER PLATES SHALL BE INSTALLED.
- J. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES, THE CONDITION OF EXISTING BUILDING DEVICES AND MATERIALS, AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SAME DURING THE COURSE OF THIS WORK. EXISTING UTILITIES, EXISTING BUILDING, AND/OR MATERIALS WHICH ARE DAMAGED BY NEGLIGENCE ON THIS CONTRACTOR'S PART OR ANY PARTIES ASSOCIATED WITH THIS CONTRACTOR, SHALL BE REPAIRED OR REPLACED AT THIS CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE ARCHITECT'S AND OWNER'S WRITTEN ACCEPTANCE
- . COORDINATE THE REMOVAL OR RELOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH-IN LOCATIONS IF
- ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST ADOPTED NATIONAL ELECTRICAL CODE, UNDERWRITER'S LABORATORIES, INC., OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, MUNICIPÁL, AND STATUTORY REQUIREMENTS.

ELECTRICAL GENERAL NOTES

- ALLOWANCES ARE TO BE INCLUDED FOR UNFORSEEN CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THAT ALL OWANCE B. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FO A MINIMUM OF 75°C CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING (60°C) OR NO RATING SHOWN TO HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO N.E.C. TABLE 310-16 ANDU.L. NO. 489 REQUIREMENTS.
- . SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONUCTOR TERMINATION. D. ALL CONDUIT INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING (EMMINIMUM 1/2" OR AS NOTED OTHERWISE. CONDUCTORS TO BE A MINIMUM OF #12 THHN/THWN, COPPER UNLESS NOTED OTHERWISE. BRANCH CIRCUIT RUNS WITH NO MARKS OR IDENTIFICATION ARE TO BE PROVIDED WITH ONE HOT, ONE NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTOR.
- E. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING INSTALLED AND PLASTIC GROMMET. . ALL LOW VOLTAGE CABLING TO BE PLENUM RATED OR INSTALLED WHERE LOCATED ABOVE CEILINGS. i. ELECTRICAL CONTRACTOR TO INCLUDE GROUND WIRE IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH N.E.C.
- H. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND DETAILS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY EXACT MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO ROUGH—IN. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE TH CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION.
- . ELECTRICAL CONTRACTOR TO VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH MECHANICAL DRAWINGS PRIOR TO FINAL PLACEMENT.
- C. BRANCH CIRCUITS SHOWN WITH TWO GROUND CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE ISOLATED GROUND CONDUCTOR (GREEN WITH YELLOW STRIPÉ) INSTALLED IN RACEWAY. . ALL PANELBOARDS ARE TO BE INSTALLED WITH A MINIMUM OF (2) $3/4^{\circ}$ CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE FOR FUTURE USE.
- M. ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST ADOPTED NATIONAL ELECTRICAL CODE, UNDERWRITER'S LABORATORIES, INC., OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, MUNICIPAL, AND STATUTORY REQUIREMENTS.
- N. EACH INDIVIDUAL BRANCH CIRCUIT SHALL BE PROVIDED WITH ITS OWN HOT, NEUTRAL, AND GROUND CONDUCTOR. MULTI-WIRE BRANCH CIRCUITS (SHARED NEUTRALS) SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED. WHERE MULTI-WIRE BRANCH CIRCUITS ARE REQUIRED, CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH HANDLE-TIES IN ACCORDANCE WITH 240.15(B)(1). D. ALL 120 VOLT CIRCUITS LONGER THAN 100 FEET IN LENGTH SHALL USE #10 AWG CONDUCTORS.
- P. ALL CIRCUITS SHALL HAVE A SEPARATE GROUNDED CONDUCTOR SIZED PER N.E.C. SECTION 250.122. Q. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORY WITH TYPED CIRCUIT DESIGNATION CARD UNDER PLASTIC COVER ON THE INSIDE OF EACH PANEL DOOR. ELECTRICAL CONTRACTOR SHALL ALSO FURNISH AND INSTALL NAMEPLATES ON ALL DISCONNECT SWITCHES, PANELBOARDS AND SWITCHBOARDS.
- R. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND PERFORM ALL WORK AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE FURNISHING AND INSTALLATION, COMPLETE OF ALL WIRING MATERIALS AND METHODS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED, IN ACCORDANCE WITH PROVISIONS OF THE CONTRACT DOCUMENTS AND COMPLETELY COORDINATED WITH WORK OF ALL OTHER TRADES.
- SHOWN IN PANEL UNLESS NOTED OTHERWISE T. FIELD COORDINATE ALL FURNITURE POWER FEED LOCATIONS PRIOR TO ROUGH—IN.
- ALL DUPLEX RECEPTACLES WITHIN 6'-0" OF A SINK OR LAVATORY SHALL BE OF A GFCI TYPE. . ALL FIRE ALARM HORN/STROBE DEVICES LOCATED IN THE SAME ROOM OR OPEN OFFICE AREA SHALL BE SEQUENCED TO FLASH AT THE SAME RATE PER LATEST FIRE ALARM CODE.

GENERAL ELECTRICAL DEMOLITION NOTES

- ANY EXISTING DEVICE AND/OR CIRCUIT SHOWN ARE INDICATED ONLY FOR INFORMATION PURPOSES. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AS THEY EXIST AND SHALL REMOVE, RELOCATE AND/OR REWORK ANY ELECTRICAL EQUIPMENT OR CIRCUITS NECESSARY FOR A COMPLETE REWIRING SYSTEM,
- UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL WORK TO BE DONE BY OBSERVATION OF THE SITE. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
- ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST NATIONAL ELECTRICAL CODE, UNDERWRITER'S LABORATORIES, INC., OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, THERE SHALL NOT BE ANY INTERRUPTIONS TO THE EXISTING BUILDING
- SERVICES WITHOUT A (7) BUSINESS DAY PRIOR NOTICE OF SUCH OUTAGE(S) TO THE ARCHITECT, BUILDING OPERATIONS MANAGER, AND THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO THE EXISTING SYSTEMS WHICH ARE TO REMAIN AND SHALL, UPON COMPLETION OF THIS PROJECT, DELIVER "RECORD" DRAWINGS TO THE ARCHITECT INDICATING ALL SUCH CHANGES. THE
- CONTRACTOR SHALL MAINTAIN IN THE PROJECT OFFICE, AS WORK PROGRESSES, AN UP-TO-DATE NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE APPROPRIATE PARTIES. WHERE FEEDERS OR OTHER CIRCUITS ARE ABANDONED AND ARE
- CONCEALED WITHIN WALLS OR FLOORS, SUCH CIRCUITS SHALL BE DISCONNECTED AT BOTH ENDS AND LABELED. ALL EXPOSED CONDUITS
- ABANDONED SHALL BE REMOVED, UNLESS NOTED OTHERWISE. WHERE NEW WORK INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE
- UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SERVICE. ALL EQUIPMENT, FIXTURES, PANELS, ETC. WHICH ARE REMOVED SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS NOTED
- COORDINATE THE ROUTING OF ALL CONDUITS AND THE LOCATIONS OF ALL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS WITH DUCTS,
- CIRCUITS ROUTINGS SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS, HOWEVER, CARE SHOULD BE TAKEN TO KEEP DEVICES AND/OR FIXTURES AND CIRCUITS APPROXIMATELY AS INDICATED
- WHERE DEVICES (WITH CONCEALED CONDUITS) ARE REMOVED LEAVIN
- EXISTING BUILDING, AND/OR MATERIALS WHICH ARE DAMAGED BY
- NEGLIGENCE ON THIS CONTRACTOR'S PART OR ANY PARTIES ASSOCIATED WITH THIS CONTRACTOR, SHALL BE REPAIRED OR REPLACED AT THIS CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE
- REMOVE ALL ROMEX, BX, AND OTHER FLEXIBLE CONDUIT OR CABLE SYSTEMS, EXPOSED WIRING, ETC. FOR ALL ABANDONED CIRCUITS. INSTALL ALL NEW AND REMAINING FEEDER CIRCUITS IN EMT, IMC OR RIGID CONDUIT, AS DICTATED BY SITE CONDITIONS.
- REMAINING WALLS, FLOORS, AND CEILINGS SHALL BE CONNECTED WITH CONCEALED CONDUIT. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS IN BID TO CUT, CHANNEL, AND PATCH TO MATCH
- WIREMOLD BE INSTALLED WRITTEN APPROVAL SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO ANY SUCH INSTALLATION.
- WHERE EXISTING ELECTRICAL LIGHTING AND DISTRIBUTION PANELBOARDS ARE TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN POWER TO BRANCH AND FEEDER CIRCUITS UNTIL A PERMANENT PANEL IS INSTALLED TO RECONNECT THE EXISTING PENALURIC CIRCUITS.
- COORDINATE THE REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING

WHERE EQUIPMENT IS REMOVED FROM OR RELOCATED TO A LOCATION WHICH PENETRATES A FIRE RATED STRUCTURE, THIS CONTRACTOR SHALL PROVIDE THE APPROPRIATE FIRE STOPPING MATERIALS SUCH THAT THE

	LIGHTING CONTROL DEVICE SCHEDULE												
SYMBOL	MANUFACTURER	MODEL	COVERAGE (SQ.FT.)	FUNCTION	DESCRIPTION								
\$ ^{os}	LUTRON	MS-B102-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / SENSOR	PASSIVE INFRARED AND ULTRASONIC WALL LIGHT SWITCH / SENSOR								
\$DOS	LUTRON	MS-Z101-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / RAISE / LOWER / SENSOR	PASSIVE INFRARED WALL LIGHT SWITCH / DIMMER / SENSOR								
\$ PS	LUTRON	MS-OPS2-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / SENSOR	PASSIVE INFRARED WALL LIGHT SWITCH / SENSOR								
<u>OS</u> 5	LUTRON	LOS-CDT-500-WH	500	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR.								
OS 1	LUTRON	LOS-CDT-1000-WH	1000	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR.								
OS 2	LUTRON	LOS-CDT-2000-WH	2000	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR.								
\$ □	LUTRON	DVTV	-	ON / OFF / RAISE / LOWER	ON/OFF BUTTON PLUS RAISE / LOWER DIMMER SLIDER.								
\$	LUTRON	NTSTV	-	ON / OFF	MOMENTARY SWITCH.								

ELECTRICAL SYMBOLS LEGEND CONDUITS: HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED. ALL CONDUCTORS TO BE #12 EXCEPT WHERE NOTED. CONDUIT TO BE 1/2" OR AS NOTED ON PLANS AND SPECIFICATIONS. CONDUIT WITH 3 #12 CONDUCTORS. 1 PARTIAL CIRCUIT

GROUND CONNECTION. CEILING LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE.

DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° VIEW, CEILING MOUNTED.

POWER PACK LUTRON #PP-277H, 20 AMP BALLAST RELAY CONTACT RATING.

GROUND FAULT DUPLEX RECEPTACLE, MOUNTED $6\ensuremath{\text{"}}$ ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.

RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.

MOTION SENSOR. 2000 SQUARE FOOT COVERAGE.

MOTION SENSOR. 500 SQUARE FOOT COVERAGE.

20 AMP DUPLEX RECEPTACLE, +18" OR AS NOTED.

4-PLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.

TELEPHONE OUTLET, +18" WITH 1/2" CONDUIT TO ABOVE CEILING.

FIRE ALARM HORN AND STROBE, +80" TO BOTTOM OF DEVICE

TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING.

TELEPHONE/DATA OUTLET, 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH.

DATA OUTLET, 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS

FOURPLEX RECEPTACLE, +18" OR AS NOTED.

FLUSH FLOOR BOX

WALL MOUNTED LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE. LED DUAL SWITCHED LIGHT FIXTURE.

LED EMERGENCY OR NL LIGHT FIXTURE.

└── LED STRIP LIGHT FIXTURE. CEILING MOUNTED EXIT LIGHT. WALL MOUNTED EXIT LIGHT, +7' -6" OR AS NOTED.

SINGLE POLE SWITCH, +3'-10" OR AS NOTED.

RECEPTACLES:

COMMUNICATIONS:

FIRE ALARM AND SECURITY:

THREE-WAY SWITCHED, +3'-10" OR AS NOTED. MANUAL MOTOR SWITCH.

KEYED SWITCH. DIMMER SWITCH. OCCUPANCY SENSOR SWITCH.

EXPOSED RACEWAYS, ETC. AFTER THE FINAL SURFACE IS APPLIED THEN BLANK STAINLESS STEEL COVER PLATES SHALL BE INSTALLED. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES, THE CONDITION OF EXISTING BUILDING DEVICES AND MATERIALS, AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SAME DURING THE COURSE OF THIS WORK. EXISTING UTILITIES,

- EXISTING WALLS, FLOORS, AND CEILINGS TO CONCEAL ALL CONDUIT. IT IS THE INTENT THAT ALL FIXTURES, EQUIPMENT AND DEVICES IN THE REMODEL AREAS ARE TO BE REWIRED WITH NEW WIRING. ALL DEVICES SUCH AS SWITCHES, RECEPTACLES, TELEPHONE JACKS, ETC. SHALL BE REPLACED WITH NEW DEVICES. WHERE EXISTING CIRCUITS ARE IN
- TO EXISTING BUILDING CONDITIONS SHOULD SURFACE MOUNTED

REMOVED. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH—IN LOCATIONS IF POSSIBLE,

STROBE ONLY, +80" TO BOTTOM OF DEVICE DEVICES: RATING OF THE STRUCTURE WILL BE MAINTAINED. THERMOSTAT (FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL

> SERVICE EQUIPMENT: PANELBOARD, TOP 6'-0". MAIN DISTRIBUTION PANEL, TOP +6'-0".

FLUSH FLOOR DATA OUTLET

JUNCTION BOXES, MOTORS, STARTERS, AND DISCONNECTS:

JUNCTION BOX.

DISCONNECT SWITCH FURNISHED W/ EQUIPMENT (INSTALLED BY ELEC. CONTRACTOR).

MOTOR CONNECTION. **SECURITY:** AIR PHONE: WEATHER PROOF J-BOX WITH 3/4" CONDUIT ROUTED TO 3" ABOVE

CARD READER: JUNCTION BOX MOUNTED AT +3'-6" AFF WITH 3/4" CONDUIT ROUTED TO 3" ABOVE FINISH CEILING. KEYPAD: WEATHER PROOF J-BOX MOUNTED AT +3'-6" AFF WITH 3/4" CONDUIT ROUTED TO 3" ABOVE FINISH CEILING.

ABBREVIATIONS WEATHERPROOF. ABOVE FINISHED FLOOR. EXISTING TO REMAIN.

NOTE: NOT ALL SYMBOLS ARE USED.

CONSTRUCTION As Noted on Plans Review

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ELECTRICAL POWER PLAN

JAY R. GUERRA

E101
ISSUE DATE: __JULY 14, 202
COLLINS WEBB #: 2303

ELECTRICAL GENERAL NOTES

POWER PLAN NOTES

(SEE SHEET E000 FOR ELECTRICAL GENERAL NOTES)

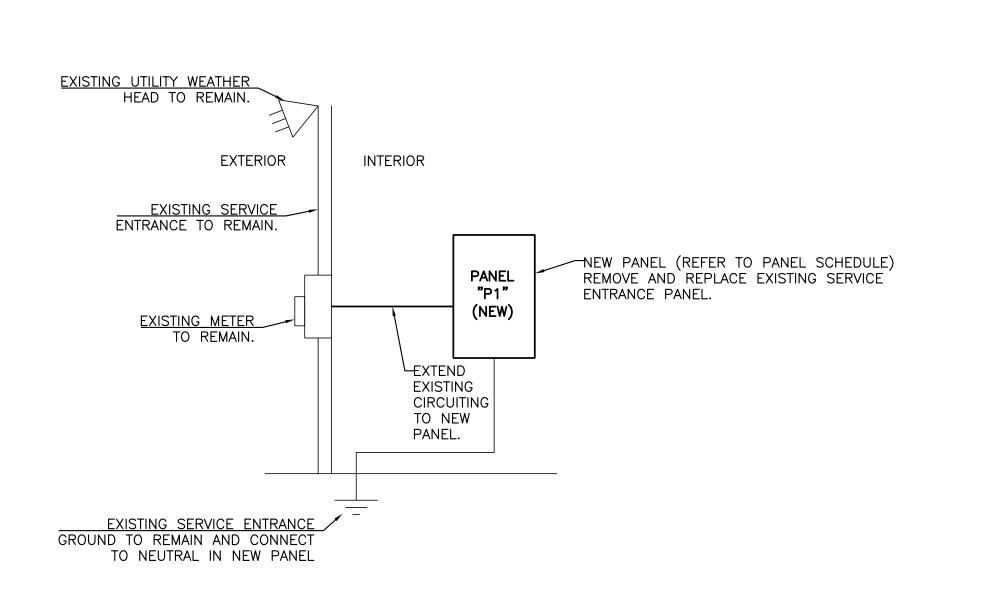
- 1 PROVIDE A 1-1/4" CONDUIT WITH PULL STRING FROM FLOOR BOX TO UP ABOVE ACCESSIBLE CEILING SPACE OF DATA CABLING. TRENCH FLOOR TO THE NEAREST WALL TO INSTALL CONDUIT. MINIMIZE TRENCH QUANTITIES AND LENGTHS TO THE EXTENT POSSIBLE. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES.
- 2 COORDINATE DEVICE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
- 3 PROVIDE RECEPTACLE MOUNTED 12" ABOVE ROOF TO RIGID METAL CONDUIT OR SUITABLE STEEL UNISTRUT SUPPORTS. SEAL ROOF PENETRATION AND PROVIDE FLASHING AS REQUIRED.
- PROVIDE ON-GRADE LISTED, 2-GANG, FLUSH FLOOR BOX WITH FURNITURE CONNECTION COVER PLATE. WIREMOLD RFBA2C300G-RFB24FF OR EQUAL. SAW CUT FLOOR AS REQUIRED TO INSTALL BOX. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.
- 5 PROVIDE ON-GRADE LISTED, 4-GANG, FLUSH FLOOR BOX WITH RECESSED POWER AND DATA OUTLETS, AND 6" COVER. PROVIDE WITH TWO(2) DUPLEX RECEPTACLES AND ONE DATA OUTLET. WIREMOLD RFBA4C300G-6CTC2 OR EQUAL. SAW CUT FLOOR AS REQUIRED TO INSTALL BOX. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.
- TRENCH FLOOR TO NEAREST WALL TO INSTALL CONDUIT FOR ROUTING POWER TO ISLAND. PROVIDE 1#12 HOT, 1#12 NEUTRAL, 1#12G, 3/4" CONDUIT. COORDINATE EXACT ROUGH—IN HEIGHT LOCATION WITH FURNITURE INSTALLER. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES.
- 7 INSTALL 12" ABOVE FINISHED FLOOR. COORDINATE INSTALLATION WITH MANUFACTURER DETAILS.
- 8 CONTRACTOR TO REPLACE AND PROVIDE WITH NEW PANEL. SEE PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.

CONFERENCE ROOM

TO THE STORAGE AT T



	AMPS: 250A SIZE/TYPE: 225A MCB	3				AIC R					FULLY R	ATED			
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1	RTU-1			3,816		50	2	1	20	900		Small Of	fice, Hall Recept.	1	2
3				111111111111111111111111111111111111111				1					fice Recept.		4
5	RTU-2				111111111111111111111111111111111111111	40	2		20		,	_	Restroom Recept.		6
7				111111111111111111111111111111111111111				1					ion Power		8
9	EF-1			150	111111111111111111111111111111111111111	20	1	1	20	720	111111111111111111111111111111111111111	Workstat	ion Power		10
11	EWH-1			111111111111111111111111111111111111111	3,000	30	2	1	20	111111111111111111111111111111111111111	720	Workstat	ion Power		12
13				3,000	111111111111111111111111111111111111111	i		1	20	720	111111111111111111111111111111111111111	Workstat	ion Power		14
15	PP-1				78	20	1	1	20	111111111111111111111111111111111111111	720	Workstat	ion Power		16
	Fridge Recept.			1,500	111111111111111111111111111111111111111	20	1	1	20	720			ion Power		18
	Microwave Recept.					20	1	1	20	111111111111111111111111111111111111111		Rooftop F	•		20
	Dishwasher Recept.			,		20	1	1	20				Conference Rooms, Office		
	Garbage Disposal, Co	unter Top,	Lobby Rec			20	1	1					obby, Kitchen, Track Ligh		24
	Microwave Recept.					20	1	1	20				Vorkstations, Utility, New I	Restroo	
	Ice Maker Recept.					20	1	1				SPARE			28
	Kitchen Counter, Oper					20	1	1	20		11111111111111111				30
	Breakroom Table, Bev	_	-			20	1	1			1	SPARE			32
33	Utility, New Restroom,	Copy/File F		-		20	1	1	20		111111111111111111111111111111111111111				34
	Copier Recept.					20	1	1			1	SPARE			36
	Small Conf. Room Re				111111111111111111111111111111111111111	20	1	1	20		111111111111111111111111111111111111111				38
	Large Conf. Room Re	серт.		700		20	1	1		111111111111111111111111111111111111111		SPARE			40
41	Storage/IT Recept.					20	1	1	20		11111111111111111	SPARE			42
	SUBTOTAL			18,390	19,158					5,060	4,301		SUBTOTAL		
	TOTAL PHASE A - VA	,	LOAD		CONN. V	DF			AD	С	ONN. VA	DF			
	AMPS	195	COOLIN		13,920	1.00			FRIG			1.00			
	TOTAL PHASE B - VA	,	HEATING			0			SNAGE			1.25			
	AMPS	195	LIGHTIN		2,341				CHEN			1.00			
	TOTAL PNLBD - VA	,	RECEPT		24,420				STING	3		1.00	TOTAL DEMAND		
	AMPS	195	MOTORS			1.00			MTR			1.25	TOTAL DEMAND	0041/4	
			SUPP HE		6,000				WIN			1.25	40,	284 VA	
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	ELBOARD NOTES VICE ENTRANCE RA														



ELECTRICAL RISER DIAGRAM

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1 City Comments & 08.08.2023 VE Revisions

JAY R. GUERRA LICENSE # E-26382 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE

MUST BE VERIFIED ON ANY ELECTRONIC COPIES PROFESSIONAL SEAL LIGHTING PLAN

COLLINS WEBB #: 23033

ELECTRICAL GENERAL NOTES

(SEE SHEET E000 FOR ELECTRICAL GENERAL NOTES)

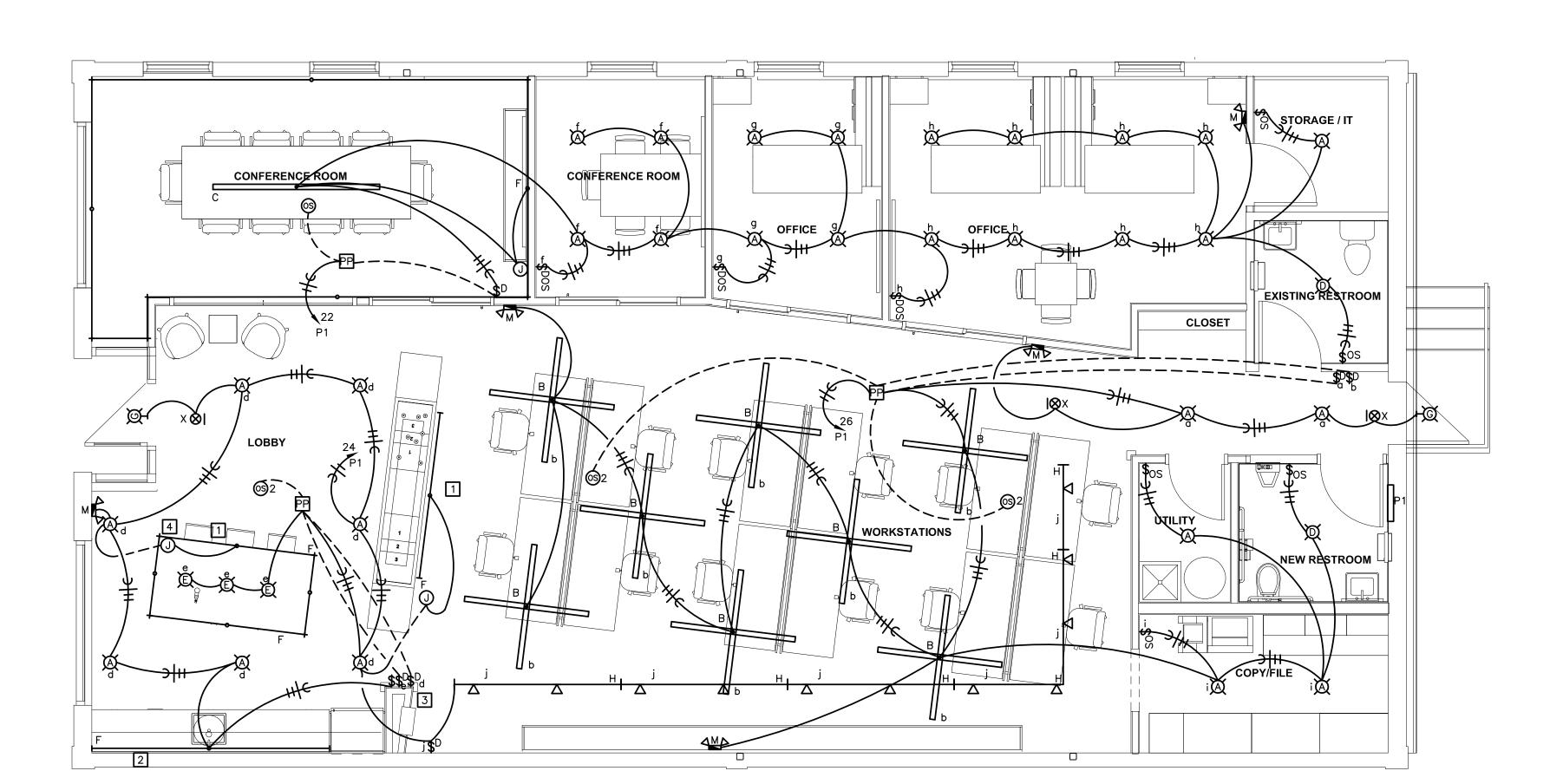
LIGHTING PLAN NOTES

- 1 COORDINATE WITH ARCHITECT ON INSTALLATION.
- 2 UNDERCOUNTER TAPE LIGHTS TO BE PLACED AT UPPER CABINETS AND EACH SHELF.
- 3 MOUNT DMX DRIVER CONTROL RECESSED IN WALL AND ROUTE CONDUIT UNDERGROUND AND OVERHEAD IN CONDUIT WHERE REQUIRED FOR ALL 'F' TYPE FIXTURES.
- 4 INSTALL DRIVER IN AN ENCLOSURE ON THE UNDERSIDE OF THE COUNTER. COORDINATE WITH ARCHITECT ON EXACT INSTALLATION. PAINT TO MATCH ARCHITECTURAL FINISHES. ROUTE CONDUIT CONCEALED THROUGH THE WALL. TRENCH THE CONDUIT THROUGH THE FLOOR.

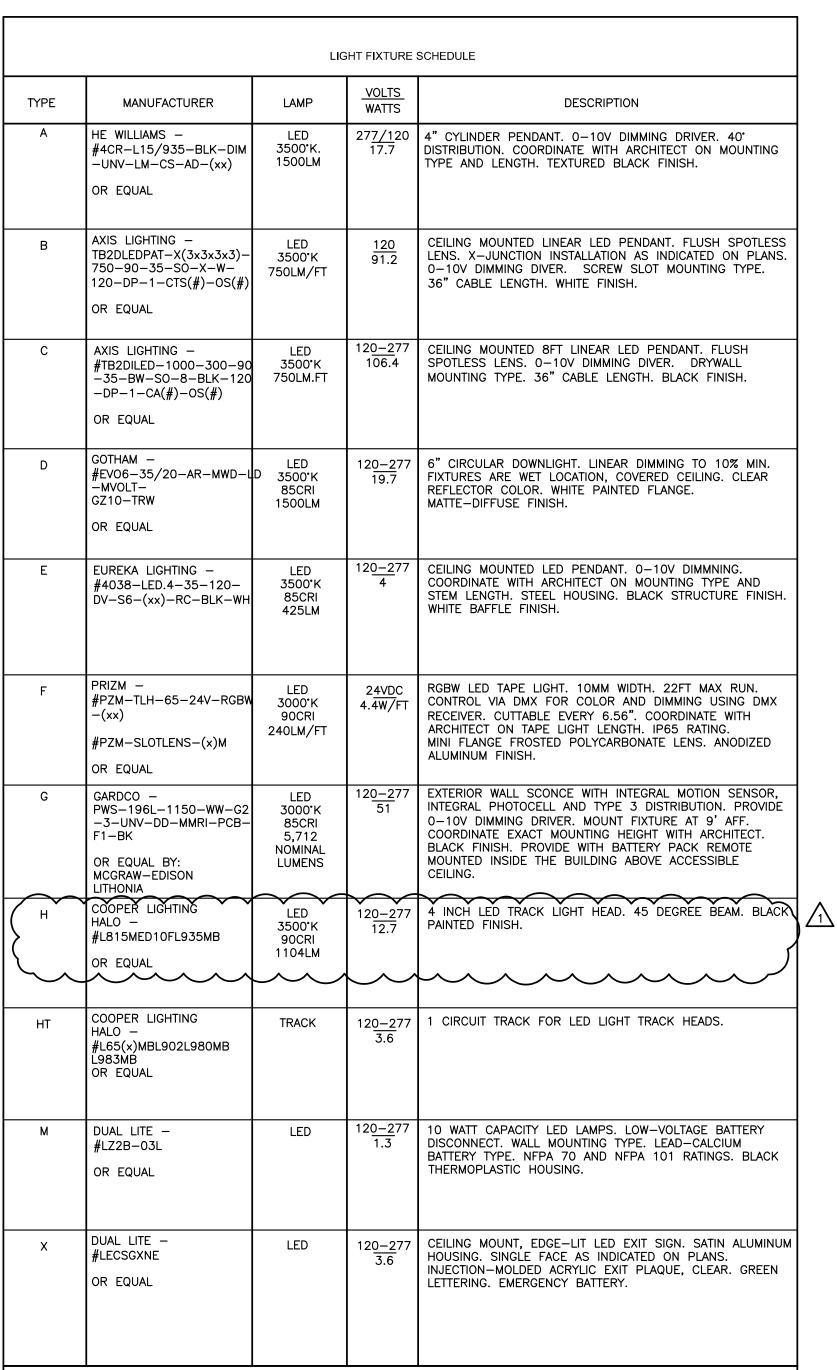
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LIGHT FIXTURE SCHEDULE NOTES:

1. VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS PRIOR TO ORDERING. PROVIDE ALL NECESSARY HARDWARE, TRIM, AND CABLES. VERIFY QUANTITIES MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURER PRIOR TO ORDERING.

. VERIFY FINISH AND COLOR WITH ARCHITECT PRIOR TO PLACING ORDER.

4. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION. CONTACT ARCHITECT IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ELECTRICAL LIGHTING PLANS.

. INSTALL ALL REQUIRED 0-10V DIMMING WIRE FOR LIGHT FIXTURES CONTROLLED BY 0-10V DIMMERS OR DIMMING ROOM CONTROLLERS. 6. FOR ALL FIXTURES REPRESENTED WITH THE EMERGENCY LIGHT FIXTURE SYMBOL (HALF-HATCHED) OR LABELED "EM"

PROVIDE AN INTEGRAL EMERGENCY BATTERY PACK AND CONNECT IT TO AN UNSWITCHED HOT CONDUCTOR. BATTERY SHALL PROVIDE A MINIMUM OF 1000 LUMENS. CONNECT EMERGENCY EXIT SIGNS TO UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT SERVING NEARBY LIGHT FIXTURES.