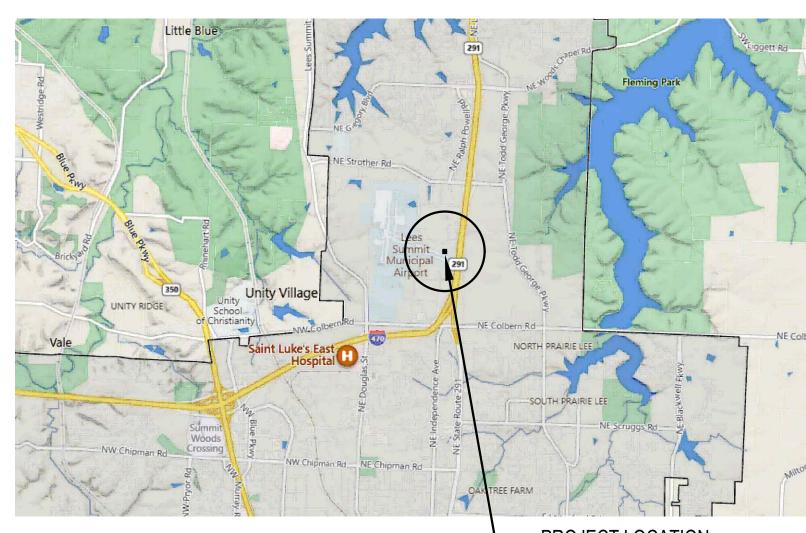
I-470 BUSINESS & TECHNOLOGY CENTER, LOT 7

ISSUED FOR PERMIT

AUGUST 31, 2022



H5 VICINITY MAP

SHEET INDEX

C100 CIVIL PLANS COVER SHEET

C200 FINAL DEVELOPMENT PLAN C201 SITE LANDSCAPING PLAN C210 SITE DETAILS

C300 SITE GRADING PLAN C301 SITE ESC PHASE 1 AND 2 PLAN C302 SITE ESC DETAILS

C400 PUBLIC STORM IMPROVEMENT PLAN C401 SITE STORM DRAINAGE PLAN AND CALCULATIONS C402 STORM LINES 1 & 2

C403 STORM LINE DETAILS C700 SITE UTILITY PLAN

A-001 LIFE SAFETY PLAN AND CODE INFORMATION A-002 DOOR, WINDOW, & FINISH SCHEDULES AND TYP. DETAILS

A-100 OVERALL MAIN LEVEL PLAN, ENCLOSURE DETAILS A-110 ENLARGED MAIN LEVEL PLAN - SOUTH, PARTITION TYPES

A-200 EXTERIOR ELEVATIONS A-300 WALL SECTIONS AND PLAN DETAIL

A-111 ENLARGED MAIN LEVEL PLAN - NORTH, PARTITION TYPES A-410 CEILING PLAN - SOUTH A-411 CEILING PLAN - NORTH, ROOF ACCES

S0.0 NOTES AND DETAILS S1.0 FOUNDATION PLAN

MECHANICAL / PLUMBING: MP-001 MECHANICAL AND PLUMBING SPECIFICATIONS AND SYMBOLS MP-002 MECHANICAL AND PLUMBING SCHEDULES AND DETAILS

MECHANICAL: M-101 MECHANICAL PLAN

E-302 ELECTRICAL SCHEDULES

E-001 ELECTRICAL SPECIFICATIONS AND SYMBOLS E-002 PHOTOMETRIC PLAN

E-003 PHOTOMETRIC PLAN E-101 ELECTRICAL PLAN E-201 ELECTRICAL EQUIPMENT POWER PLAN E-301 ELECTRICAL SCHEDULES AND DIAGRAMS

- **GENERAL NOTES:** 1. THE CONTRACTOR SHALL SECURE AND PAY FOR GOVERNMENT LICENSES, INSPECTIONS, TESTING, TEMPORARY UTILITIES AND PERMITS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND/OR REGULATORY BODY HAVING
- 2. CONTRACTORS SHALL VISIT THE SITE WHILE BIDDING AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT AND CONSTRUCTION DOCUMENTS PRIOR TO DEVELOPING THEIR BID, FABRICATION / CONSTRUCTION, AND PURCHASING. MATERIAL QUANTITIES SHALL BE BASED ON ACTUAL FIELD CONDITIONS AND MEASUREMENTS. DO NOT RELY ON SCALING DRAWINGS FOR ACCURATE DIMENSIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- 3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CONSTRUCTION DOCUMENTS TO THEIR SUBCONTRACTORS AS REQUIRED FOR THEM TO DEVELOP A COMPLETE BID FOR THEIR WORK AND TO HAVE A COMPLETE UNDERSTANDING OF COORDINATION NEEDED WITH OTHER SUBCONTRACTORS FOR RELATED HIDDEN

CORRECTIONS AND/OR REPAIRS REQUIRED FOR FAILING TO DO SO.

SHALL COMPLY WITH THE APPLICABLE GOVERNING CODES LISTED.

OR EXPOSED WORK TO ENSURE EFFICIENT AND ORDERLY INSTALLATION.

- 4. THE ARCHITECT ASSUMES NO LIABILITY FOR THE SERVICES AND/OR CONSTRUCTION DOCUMENTS OF DESIGN SUB-CONSULTANTS COMPILED INTO THE SET OF DOCUMENTS ISSUED BY THE ARCHITECT. THESE DESIGN SERVICES MAY INCLUDE, BUT ARE NOT LIMITED TO, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, PRE-ENGINEERED METAL BUILDING DESIGN, TILT-UP DESIGN, TRUSS SYSTEM DESIGN, AUTOMATIC FIRE SPRINKLER AND/OR ALARM SYSTEMS, LOW-VOLTAGE ELECTRICAL TELECOMMUNICATION AND SECURITY
- SYSTEMS AND GUTTER / DOWNSPOUT DESIGN. 5. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, MACHINERY, SCAFFOLDING, SHORING, TOOLS, LAYOUT, ON-SITE DIMENSIONING, TRANSPORTATION, UTILITIES. AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS. THIS SHALL ALSO INCLUDE NECESSARY CUTTING, PATCHING AND REPAIRING OF EXISTING CONSTRUCTION MATERIALS IN PLACE. ALL WORK AND MATERIAL
- 6. WHERE DETAILS AND DESIGN INTENT ARE NOT CLEAR, THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- 7. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR STRUCTURAL

SATISFACTION. REPAIRS ARE TO BE PAID FOR BY THE CONTRACTOR RESPONSIBLE.

- MODIFICATIONS, INSTALLATIONS AND ERECTION. 8. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY. ANY DAMAGE DONE TO ADJACENT AREAS MUST BE REPAIRED TO MATCH ORIGINAL CONDITIONS OR TO THE OWNER'S
- 9. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ADDITIONAL WORK OR REVISIONS REQUIRED DUE TO
- SITE CONDITIONS OR ADDITIONAL REQUIREMENTS OF ANY REGULATORY BODIES HAVING AUTHORITY. 10. FOR THE DURATION OF THE PROJECT AND AT ALL TIMES OF EACH DAY, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS, SECURITY AND SAFETY FOR WORKERS AND THE GENERAL PUBLIC, AS REQUIRED BY THE REGULATORY BODY HAVING AUTHORITY.
- 11. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN INSURANCE COVERAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER. VERIFY AND COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR ANY ADDITIONAL REQUIREMENTS
- 12. THE OWNER OR THE OWNER'S SUBCONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND
- 13. THE CONTRACTOR SHALL PROVIDE SECURITY OF THE WORK, INCLUDING TOOLS AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT, AND OWNER'S PROPERTY FROM THEFT AND VANDALISM, AND PROTECT THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY THE OWNER.
- 14. CONTRACTOR SHALL COORDINATE STAGING AREAS AS REQUIRED BY THE LANDLORD / OWNER.
- 15. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES.
- 16. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY STRUCTURAL MEMBER(S) BEING CUT OR MODIFIED TO ACCOMMODATE THE INSTALLATION OF ANY PIPES, DUCTS OR
- 17. THE STRUCTURAL ENGINEER AND ARCHITECT MUST BE NOTIFIED AND MUST GIVE APPROVAL PRIOR TO ANY MODIFICATION TO THE ROOF SYSTEM OR ADDING ANY ADDITIONAL ROOF-MOUNTED EQUIPMENT.

THESE DRAWINGS ARE CONSIDERED A "BUILDER'S SET", AND BY BEGINNING CONSTRUCTION, THE CONTRACTOR GUARANTEES TO THE ARCHITECT, THAT THE CONTRACTOR HAS THE COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THE PROJECT WITH THESE DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO ADAPT THE DRAWINGS TO ACTUAL FIELD CONDITIONS AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT. FAILURE TO GIVE NOTICE SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ANY RESULTANT EXPENSES, REPAIRS OR ADDITIONAL WORK. IT IS UNDERSTOOD AND AGREED THAT IF THE ARCHITECT IS NOT HIRED TO DO CONSTRUCTION OBSERVATION OR ANY OTHER CONSTRUCTION PHASE SERVICES, THAT THE ARCHITECT IS NOT LIABLE FOR ANY CLAIMS THAT MAY BE IN ANY WAY CONNECTED THERETO.

1. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO ENSURE THE HIGHEST QUALITY

MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT

3. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE

4. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT AND

5. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER. EXTERIOR OPENINGS SHALL BE

6. REPAIR PROPERTY DAMAGE BY THE INSTALLERS TO A LIKE NEW CONDITION, OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS, AND SUBCONTRACTORS.

g. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONSTRUCTED TO THE EXACT SLOPES OR ANGLES INDICATED.

h. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONSTRUCTED TO THE EXACT ANGLE INDICATED OR

j. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE WITHOUT DENTS, WAVES, BULGES OR OTHER

I. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE

GUARANTEES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF

7. ALLOWABLE TOLERANCES - UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL

WALL AND SOFFIT INTERSECTIONS SHALL BE 90° OR THE EXACT ANGLE INDICATED OR INTENDED.

8. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR

INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND

WITH THE MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS.

2. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH

ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.

FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.

REPLACE DAMAGED OR UNFIT MATERIALS, AT NO COST TO THE OWNER.

FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.

k. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN, AND SMOOTH.

ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

DISCLAIMER:

FINISHED PRODUCT - EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH

CONSTRUCTION NOTES:

WRITTEN MANUFACTURER'S INSTRUCTIONS.

IIDWEST ARCHITECTS 120 NW Eagle Ridge Blvd Grain Valley, Missouri 64029

120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029

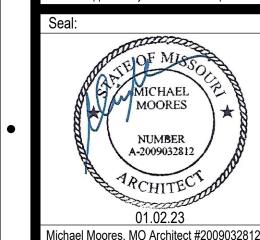
t: (816) 229-8115

Civil Engineering Quist Engineering, Inc 821 NE Columbus St. Lee's Summit, Missouri 6406

Structural Engineerir Structura Logica 18901 E. 299th Street Harrisonville, MO 64701

MEP Engineering JSC Engineers 1925 Central Street, Suite 201 Kansas City, MO 64108 t: (816) 272-5289

evisions to technical submissions which are i made or approved by the licensee are prohibite



Project Number: Project Type: NEW CONSTRUCTION

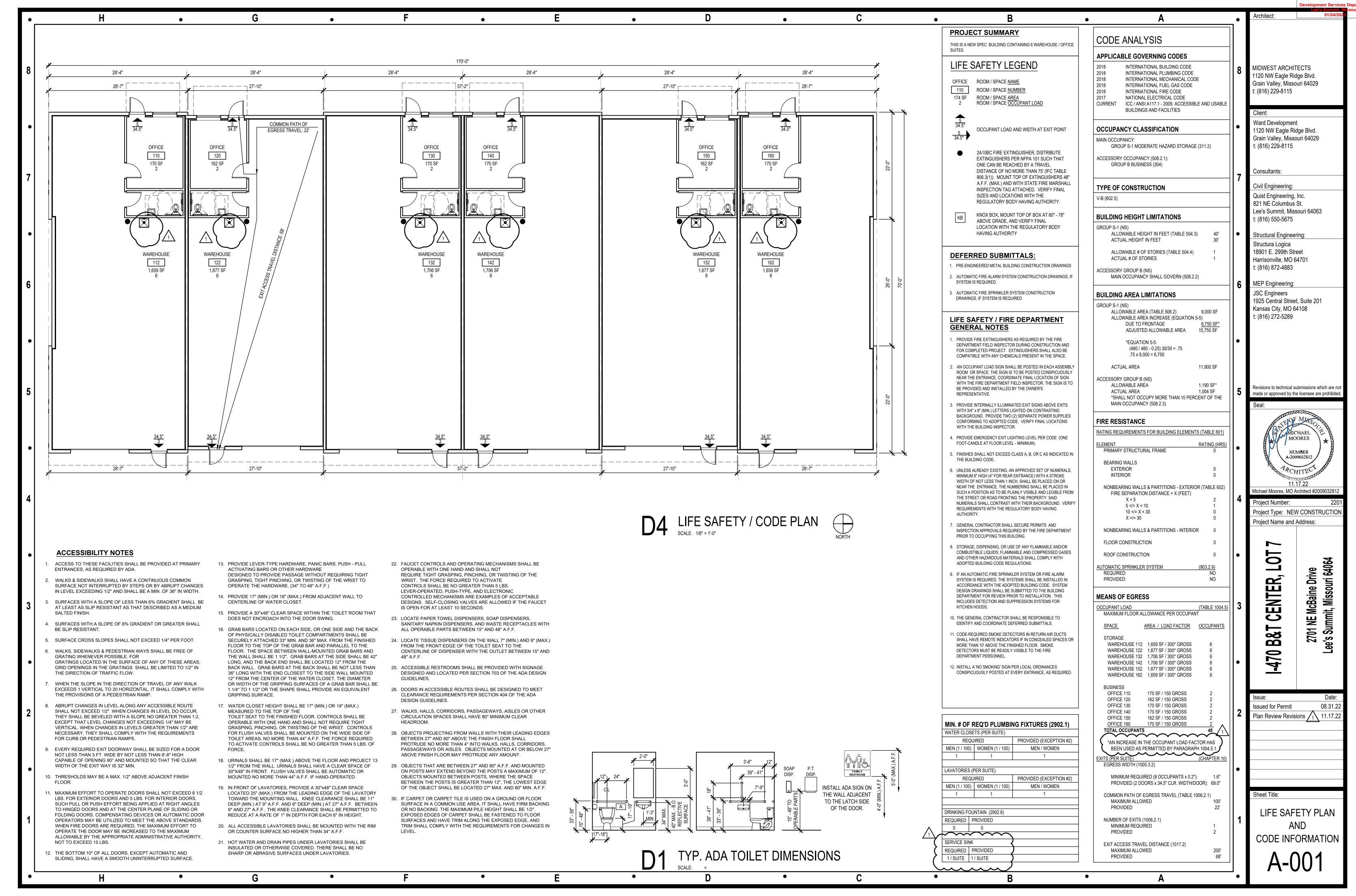
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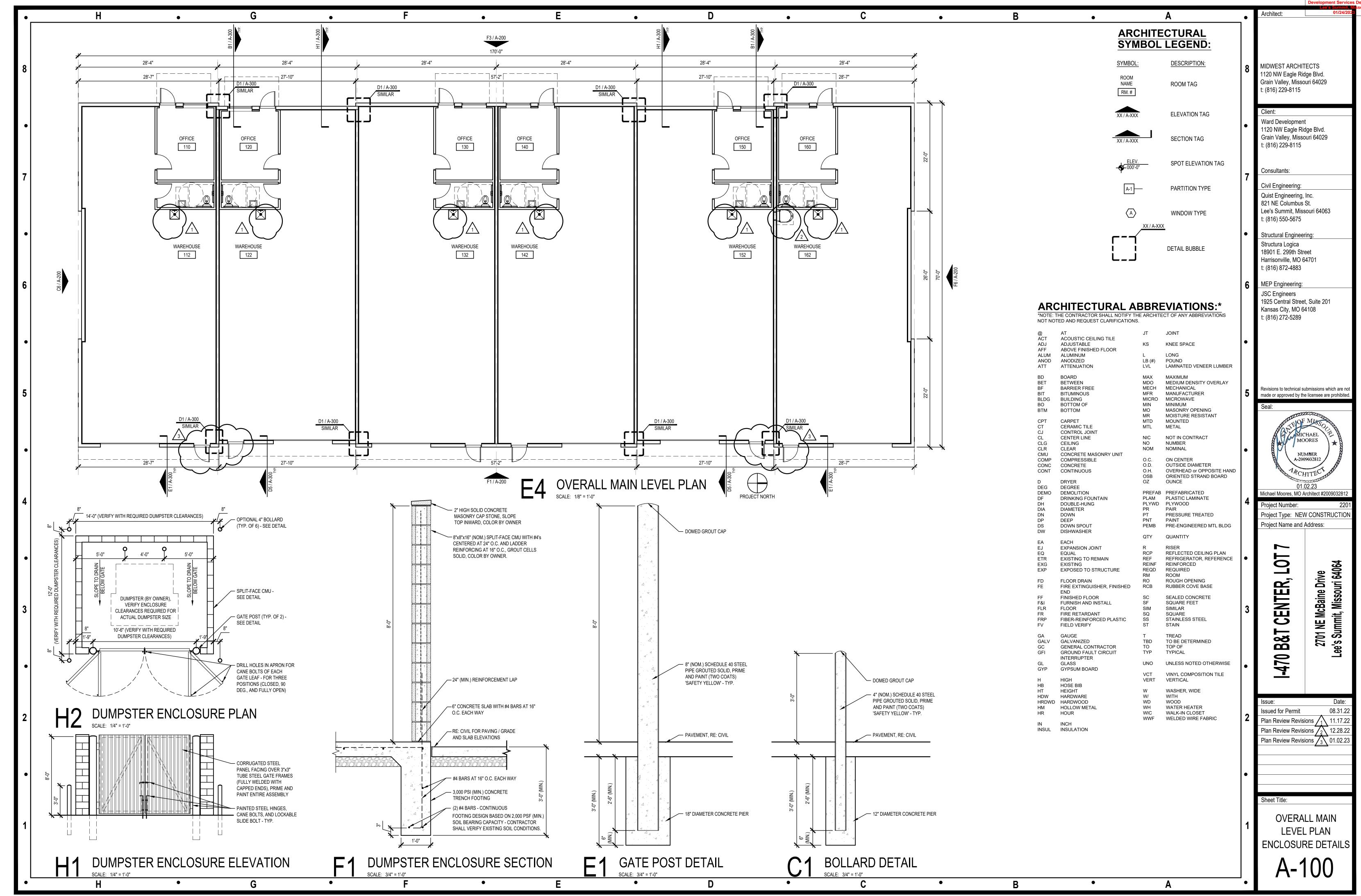
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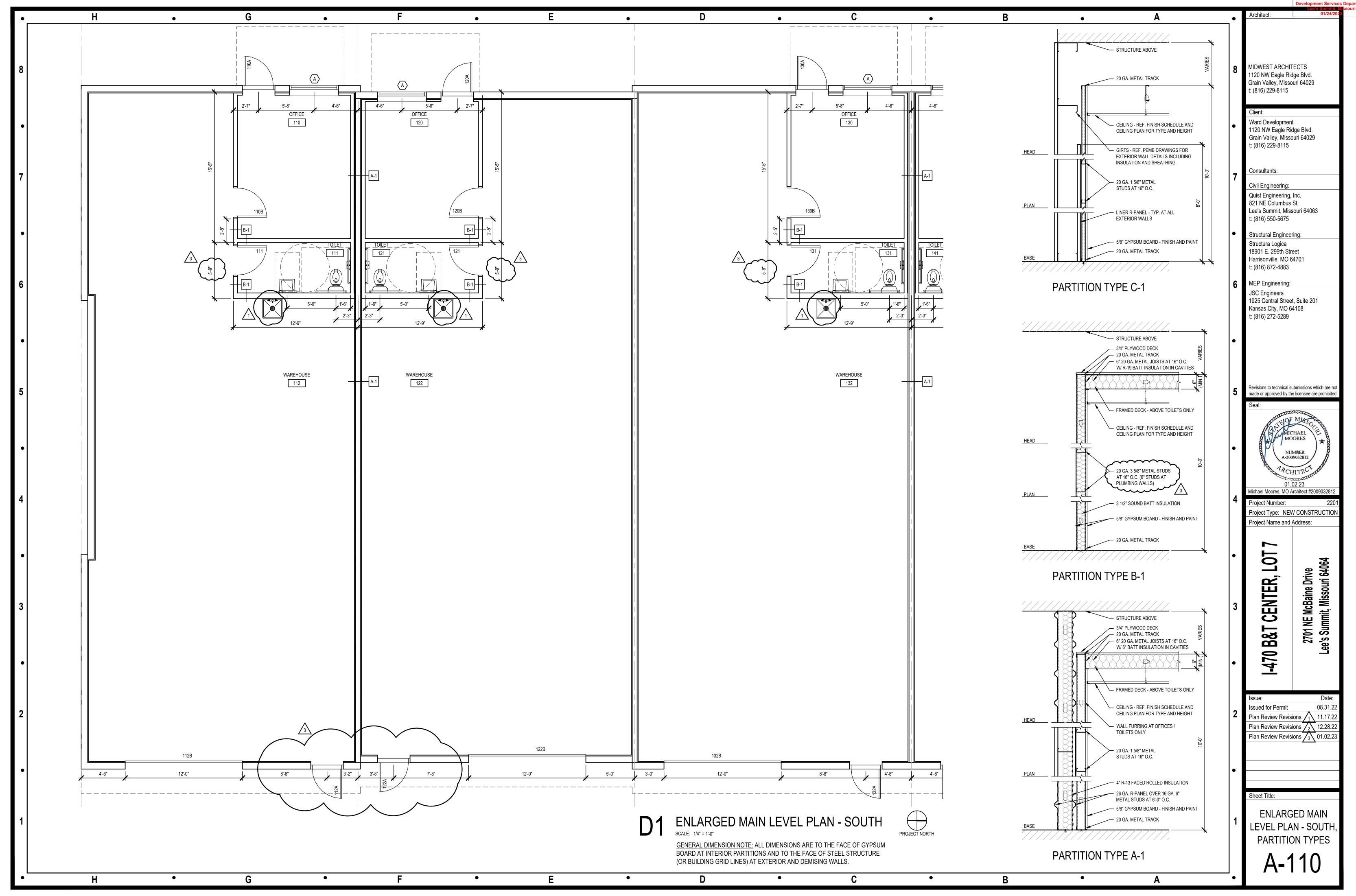
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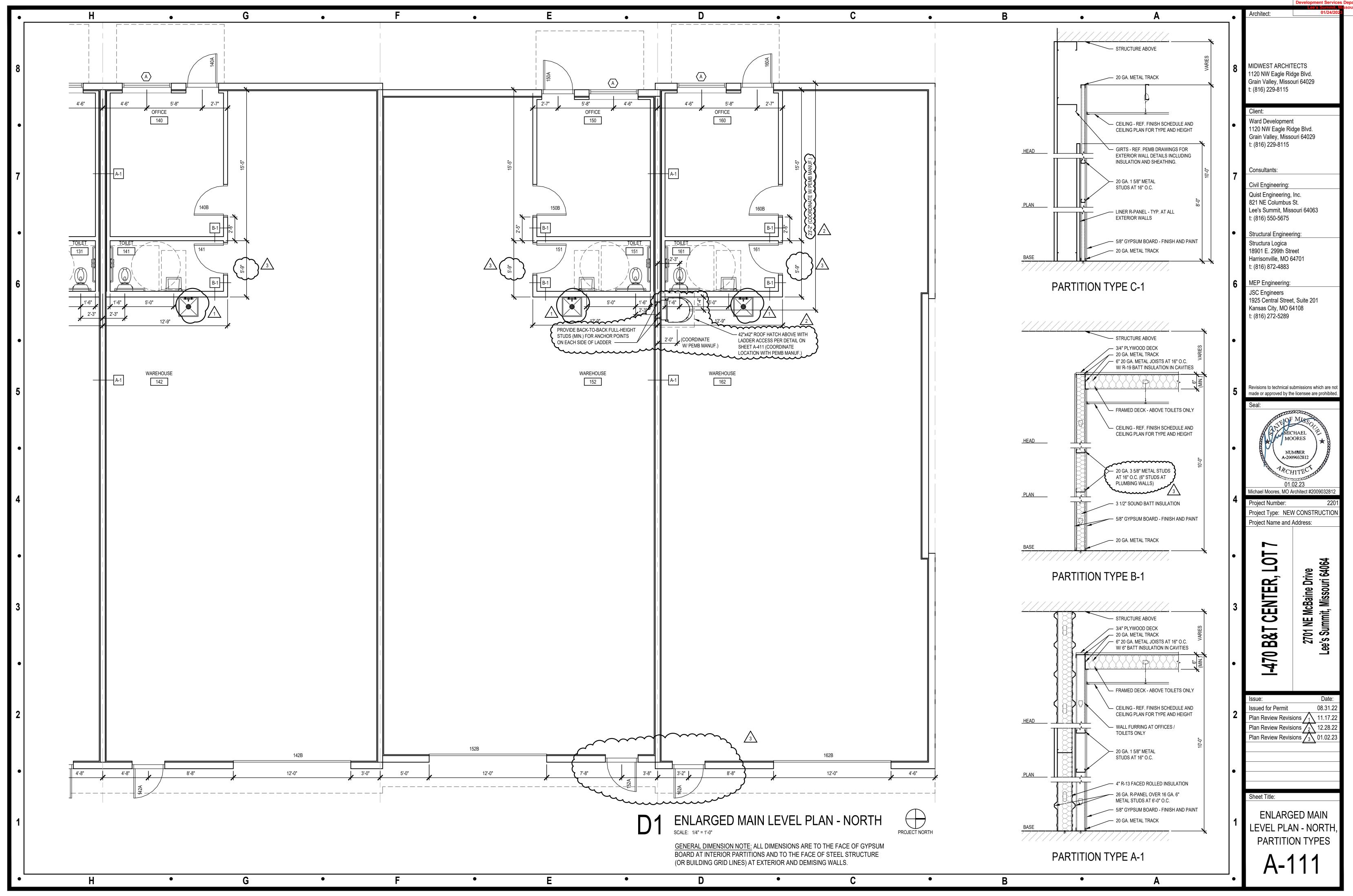
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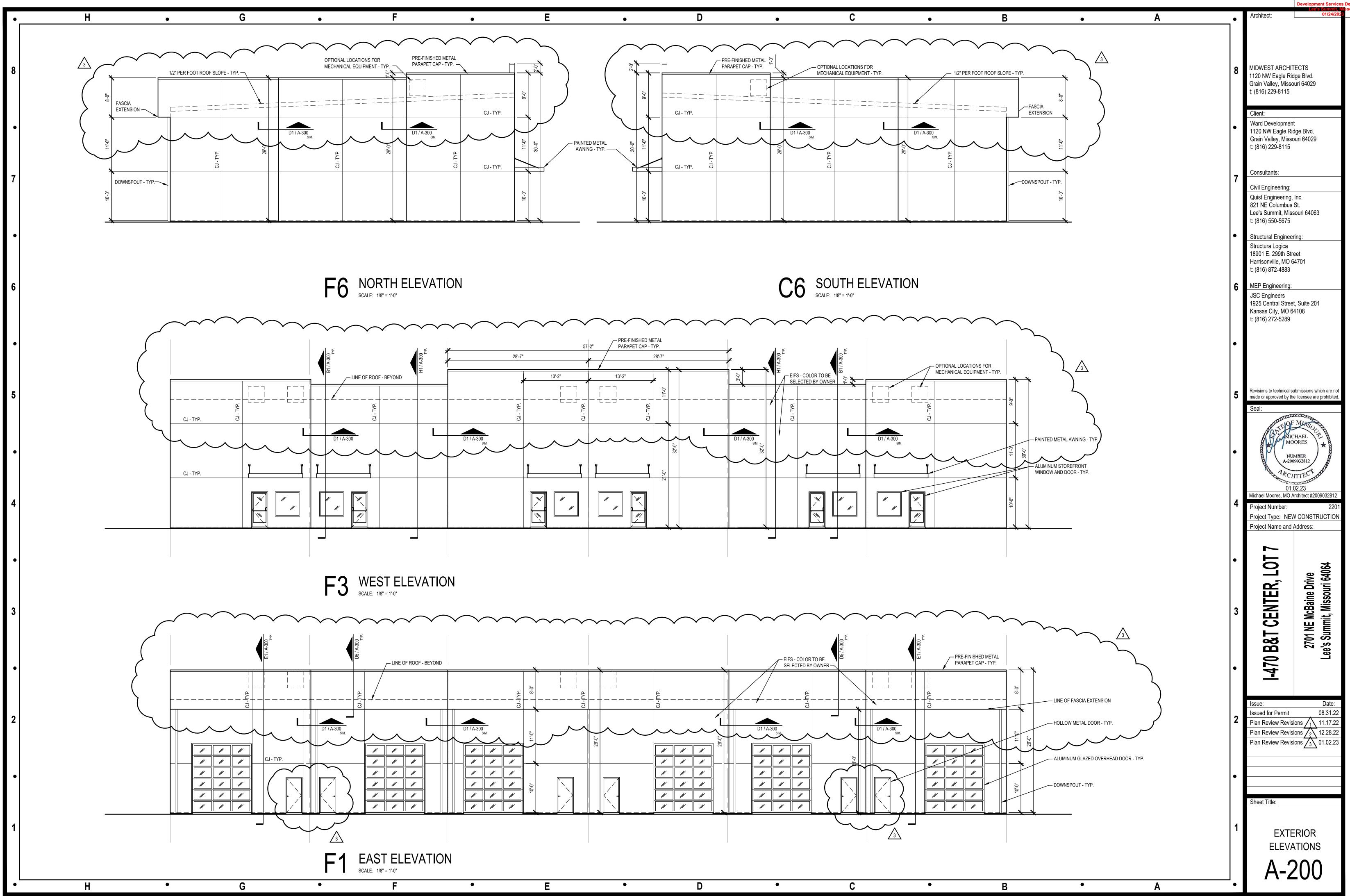


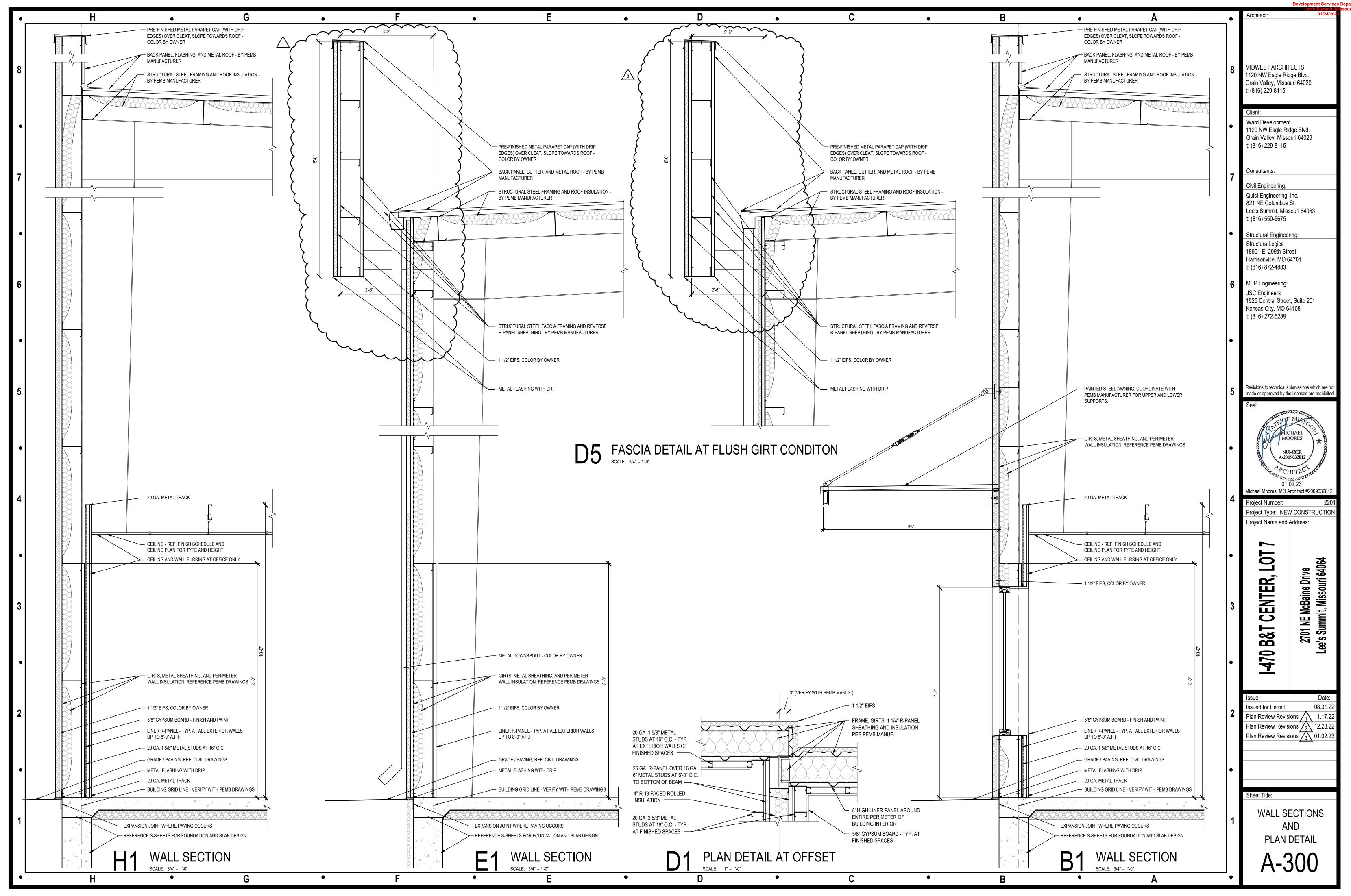
Architect: DOOR SCHEDULE HARDWARE SETS **DOOR TYPES** 5/8" GYPSUM DOOR FRAME **DETAILS** - (SEE THIS SHEET) BOARD 1 1/2 PAIR BUTT HINGES, 1" PUSH / PULL SET, KEYED DOOR NO. TYPE MIDWEST ARCHITECTS BACKER ROD CYLINDER LOCK, SURFACE-MOUNTED CLOSER, ALUMINUM PUSH PULL PUSH PULL THRESHOLD WARE COMMENTS **MATERIAL** HEAD JAMB SIZE MATERIAL AND SEALANT 1120 NW Eagle Ridge Blvd. THRESHOLD, SWEEP AND PILE WEATHERSEAL SET FINISH | FINISH | FINISH FINISH (BOTH SIDES, Grain Valley, Missouri 64029 - 5/8" GYPSUM BOARD 2 1 1/2 PAIR BUTT HINGES, LEVER-HANDLE CLASSROOM FUNCTION LOCKSET, WALL STOP 110A ALL AROUND) 1 3/4" X 3'-0" X 7'-0" ANOD ANOD ANOD ANOD t: (816) 229-8115 BACKER ROD AND 1/4" SHIM SEALANT (BOTH SIDES, 2 110B PNT PNT HM PNT НМ PNT 1 3/4" X 3'-0" X 7'-0" ALL AROUND) 1 1/2" EIFS OVER 1 1/2 PAIR BUTT HINGES, LEVER-HANDLE PRIVACY 1 1/4" R-PANEL -1/4" SHIM 3 FUNCTION LOCKSET, WALL STOP 111 1 3/4" X 3'-0" X 7'-0" PNT PNT НМ PNT -1 1/2" EIFS OVER Nard Development 1 1/4" R-PANEL 1 1/2 PAIR BUTT HINGES, LEVER-HANDLE ENTRY FUNCTION (4) 112A PNT 120 NW Eagle Ridge Blvd. 1 3/4" X 3'-0" X 7'-0" PNT НМ 4) LOCKSET, SURFACE-MOUNTED CLOSER, ALUMINUM Grain Valley, Missouri 64029 THRESHOLD, SWEEP AND WEATHERSEAL SET REF. DETAILS OF OVERHEAD DOOR TYPE 'A TYPE 'B' 112B ANOD ANOD 12' X 14' t: (816) 229-8115 MANUFACTURER - TO BE SELECTED BY OWNER DAMS AND WEEPS (5) BY MANUFACTURER CONTINUOUS SILICONE SEAL 120A A ANOD ANOD ANOD ANOD 1 3/4" X 3'-0" X 7'-0" - 1/4" SHIM 2 BACKER ROD AND 120B Consultants: PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT SEALANT (BOTH SIDES, **DOOR NOTES** ALL AROUND) 3 121 PNT PNT 1 3/4" X 3'-0" X 7'-0" PNT НМ PNT Civil Engineering: ∕ 5/8" GYPSUM BOARD Quist Engineering, Inc. **ALUMINUM STOREFRONT DOORS SHALL COMPLY WITH THE FOLLOWING** (4) 122A PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT 821 NE Columbus St. **REQUIREMENTS:** JAMB DETAIL Lee's Summit, Missouri 64063 REF. DETAILS OF OVERHEAD DOOR 122B ANOD ANOD 12' X 14' MANUFACTURER - TO BE SELECTED BY OWNER ALL DOOR HANDLES TO BE LEVER TYPE. t: (816) 550-5675 130A 1 3/4" X 3'-0" X 7'-0" ANOD ANOD ANOD ANOD EGRESS DOORS SHALL BE READILY OPENABLE Structural Engineerinເ FROM THE EGRESS SIDE WITHOUT THE USE OF A 2 130B KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. 1 3/4" X 3'-0" X 7'-0" PNT НМ PNT Structura Logica 18901 E. 299th Street **ALUMINUM STOREFRONT** 3 PROVIDE DOOR STOPS OF APPROPRIATE TYPE FOR 131 PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT Harrisonville, MO 64701 ALL INTERIOR DOORS, MATCH ADJACENT HEAD / SILL DETAILS t: (816) 872-4883 HARDWARE FINISH. (4) 132A PNT PNT PNT 1 3/4" X 3'-0" X 7'-0" PNT НМ DOOR CLOSERS SHALL BE ADJUSTED SO THAT REF. DETAILS OF OVERHEAD DOOR MEP Engineering: 132B 12' X 14' ANOD ANOD FROM AN OPEN POSITION OF 90 DEGREES, THE MANUFACTURER - TO BE SELECTED BY OWNER TIME REQUIRED TO MOVE THE DOOR TO AN OPEN JSC Engineers 140A ANOD ANOD ANOD ANOD POSITION OF 12 DEGREES WILL BE 5 SECONDS 1 3/4" X 3'-0" X 7'-0" BOARD 1925 Central Street, Suite 201 MINIMUM. TYPE 'C' Kansas City, MO 64108 BACKER ROD 2 140B PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT НМ PNT AND SEALANT t: (816) 272-5289 MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT (BOTH SIDES, EXCEED 8 1/2 POUNDS FOR EXTERIOR DOORS AND 3 141 PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT ALL AROUND) 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR - 5/8" GYPSUM BOARD PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO - 1/4" SHIM 142A PNT PNT 1 3/4" X 3'-0" X 7'-0" PNT PNT НМ HINGED DOORS AND AT THE CENTER PLANE OF DOOR SYMBOLS BACKER ROD AND SLIDING OR FOLDING DOORS. COMPENSATING -1 1/2" EIFS OVEI SEALANT (BOTH SIDES, REF. DETAILS OF OVERHEAD DOOR DEVICES OR AUTOMATIC DOOR OPERATORS MAY 142B ANOD ANOD 12' X 14' 1/4" R-PANEL ALL AROUND) MANUFACTURER - TO BE SELECTED BY OWNE BE UTILIZED TO MEET THE ABOVE STANDARDS. 1/4" SHIM WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM 150A ANOD ANOD ANOD ANOD 1 3/4" X 3'-0" X 7'-0" -1 1/2" EIFS OVER EFFORT TO OPERATE THE DOOR MAY BE 1 1/4" R-PANEL INCREASED TO THE MAXIMUM ALLOWABLE BY THE 2 150B 1 3/4" X 3'-0" X 7'-0" PNT HM PNT PNT PNT APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT EXISTING DOOR Revisions to technical submissions which are no TO EXCEED 15 POUNDS. made or approved by the licensee are prohibited TO BE REMOVED 3 151 1 3/4" X 3'-0" X 7'-0" PNT PNT НМ PNT PNT THE BOTTOM 10" OF ALL DOORS EXCEPT 4 AUTOMATIC DOORS, POWER ASSISTED DOORS, AND 152A 1 3/4" X 3'-0" X 7'-0" PNT PNT НМ PNT PNT SLIDING DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR REF. DETAILS OF OVERHEAD DOOR 152B C ANOD ANOD 12' X 14' TO BE OPENED BY A WHEELCHAIR FOOTREST MANUFACTURER - TO BE SELECTED BY OWNER EXISTING DOOR MICHAEL WITHOUT CREATING A TRAP OR HAZARDOUS 160A ANOD ANOD 1 3/4" X 3'-0" X 7'-0" ANOD ANOD **MOORES** CONDITION. TO REMAIN ALUMINUM DOOR FRAME 2 EXIT DOORS IN ASSEMBLY AND EDUCATION 160B B PNT PNT NUMBER PNT PNT НМ 1 3/4" X 3'-0" X 7'-0" JAMB DETAIL OCCUPANCIES SERVING AN OCCUPANT LOAD OF 50 A-200903281 OR MORE SHALL BE EQUIPPED WITH PANIC 3 PNT | PNT | PNT PNT 1 3/4" X 3'-0" X 7'-0" — DOOR NUMBER ARCHITEC. HARDWARE, WITH THE EXCEPTION BELOW (NOTE 7). (4) 162A PNT 1 3/4" X 3'-0" X 7'-0" PNT НМ PNT MAIN EXIT DOORS HAVING KEY-OPERATED LOCKING DEVICES ON THE EGRESS SIDE IN GROUP A **NEW DOOR** Michael Moores, MO Architect #2009032812 REF. DETAILS OF OVERHEAD DOOR 162B ANOD ANOD OCCUPANCIES (SERVING 300 OCCUPANTS OR 12' X 14' MANUFACTURER - TO BE SELECTED BY OWNER LESS), GROUPS B, F, M, S, AND PLACES OF Project Number: RELIGIOUS WORSHIP SHALL HAVE DURABLE Project Type: NEW CONSTRUCTION SIGNAGE ABOVE THE DOOR IN 1" HIGH LETTERS ON CONTRASTING BACKGROUND STATING: "THIS DOOR Project Name and Address: ROOM FINISH SCHEDULE **WINDOW LEGEND** TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED". LOCKING DEVICES SHALL BE READILY DISTINGUISHABLE AS LOCKED. ALUMINUM DOOR FRAME WALL FINISH | WALL FINISH | WALL FINISH CEILING COMMENTS NUMBER | ROOM NAME MATERIAL | MATERIAL (NORTH) (SOUTH) (WEST) (EAST) MATERIAL FINISH LATCHING AND LOCKING DOORS THAT ARE HAND HEAD / THRESHOLD DETAILS **[**0] 2701 NE McBaine Drive Lee's Summit, Missouri 64064 ACTIVATED AND WHICH ARE IN THE PATH OF 110 OFFICE CONC PNT-1 ACT-1 RCB PNT-1 PNT-1 PNT-1 TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS. 111 TOILET SC RCB PNT-1 PNT-1 PNT-1 PNT-1 ACT-1 LINER R-PANEL -CENTER, PUSH-PULL ACTIVATING BARS OR OTHER CONC 112 WAREHOUSE EXP HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE 120 | OFFICE PNT-1 PNT-1 PNT-1 ACT-1 CONC RCB PNT-1 OPENING HARDWARE. LOCKABLE EXIT DOORS 1 1/2" EIFS OVER 1 1/4" R-PANEL -SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. 121 TOILET SC RCB PNT-1 ACT-1 PNT-1 PNT-1 PNT-1 HAND-ACTIVATED DOOR OPENING HARDWARE TO 122 WAREHOUSE CONC EXP BE CENTERED BETWEEN 34" AND 44" ABOVE THE 130 OFFICE CONC RCB PNT-1 PNT-1 PNT-1 PNT-1 ACT-1 B&T EVERY DOORWAY WHICH IS LOCATED WITHIN AN 131 TOILET SC RCB PNT-1 ACT-1 PNT-1 PNT-1 PNT-1 $\langle A \rangle$ ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT 132 WAREHOUSE CONC EXP **-4**70 2" x 4 1/2" THERMALLY BROKEN DARK BRONZE LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" ANODIZED ALUMINUM STOREFRONT WITH 1" CONC PNT-1 ACT-1 WEATHERSTRIP - TYP.-140 OFFICE RCB PNT-1 PNT-1 PNT-1 IN HEIGHT. WHEN INSTALLED, EXIT DOORS SHALL LOW-E INSULATED CLEAR TEMPERED GLASS, BE CAPABLE OF OPENING SO THAT THE CLEAR 141 TOILET SC RCB ACT-1 TUBELITE (OR EQUAL) PNT-1 PNT-1 PNT-1 PNT-1 1 1/2" EIFS OVER WIDTH OF THE EXIT IS NOT LESS THAT 32", MEASURED BETWEEN THE FACE OF THE OPENED 1 1/4" R-PANEL 142 WAREHOUSE CONC EXP DOOR AND THE OPPOSITE STOP. CONC RCB PNT-1 PNT-1 PNT-1 PNT-1 ACT-1 150 OFFICE MINIMUM MANEUVERING CLEARANCES AT DOORS **EXTERIOR HOLLOW METAL** EXTERIOR HOLLOW METAL SHALL BE AS REQUIRED BY THE ICC/ANSI A117.1 151 TOILET RCB ACT-1 SC PNT-1 PNT-1 PNT-1 PNT-1 08.31.22 Issued for Permit ACCESSIBILITY CODE. THE FLOOR OR GROUND DOOR FRAME JAMB DETAIL DOOR FRAME HEAD DETAIL AREA WITHIN THE REQUIRED CLEARANCES SHALL 152 WAREHOUSE CONC EXP BE LEVEL AND CLEAR. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE CONC RCB PNT-1 PNT-1 PNT-1 ACT-1 160 OFFICE PNT-1 THRESHOLD OF THE DOORWAY. 161 TOILET SC RCB PNT-1 PNT-1 PNT-1 PNT-1 ACT-1 DOORS SHALL NOT PROJECT MORE THAN 7" INTO 162 WAREHOUSE CONC EXP THE REQUIRED CORRIDOR WIDTH WHEN FULLY OPENED OR MORE THAN ONE HALF INTO THE REQUIRED WIDTH WHEN IN ANY POSITION. 2x4 SUB FRAME - AS REQUIRED -WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE Sheet Title: LEAF POSITIONED AT AN ANGLE OF 90° FROM ITS CLOSED POSITION. DOOR, WINDOW, & EXIT DOORS SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING 50 OR MORE FINISH SCHEDULES OCCUPANTS. AND TYP. DETAILS **HOLLOW METAL DOOR HOLLOW METAL DOOR** FRAME HEAD DETAIL FRAME JAMB DETAIL D C



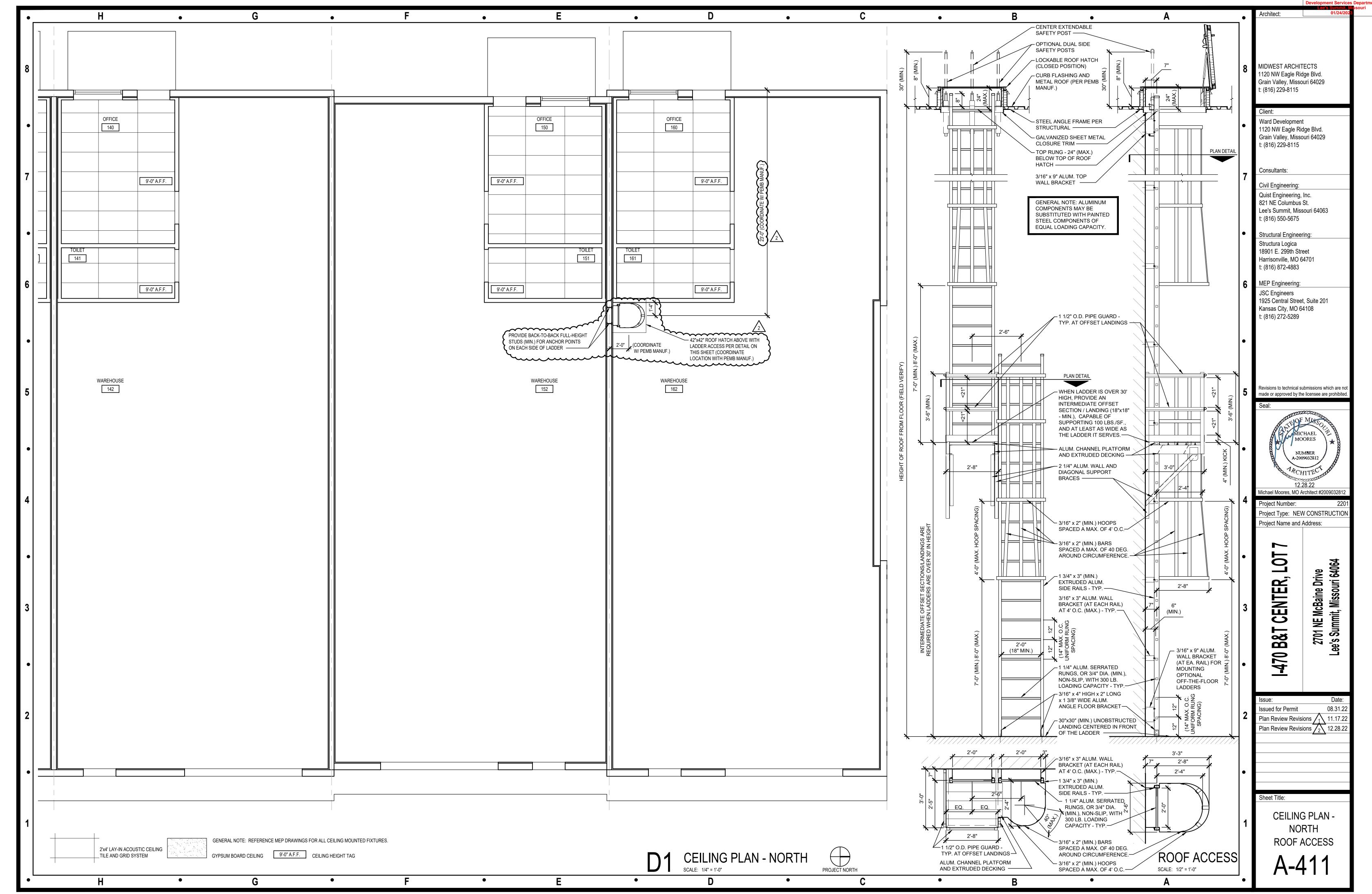


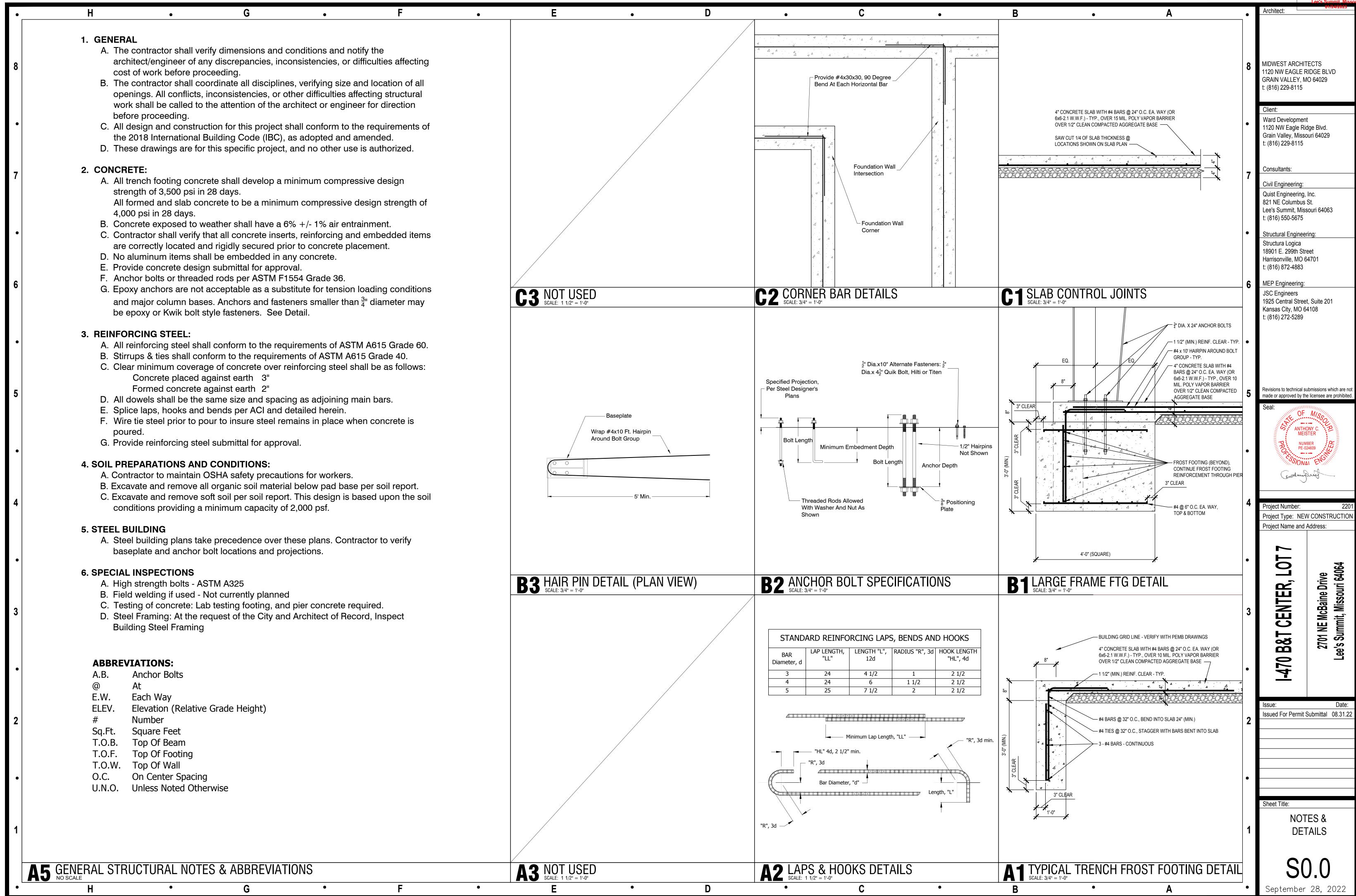


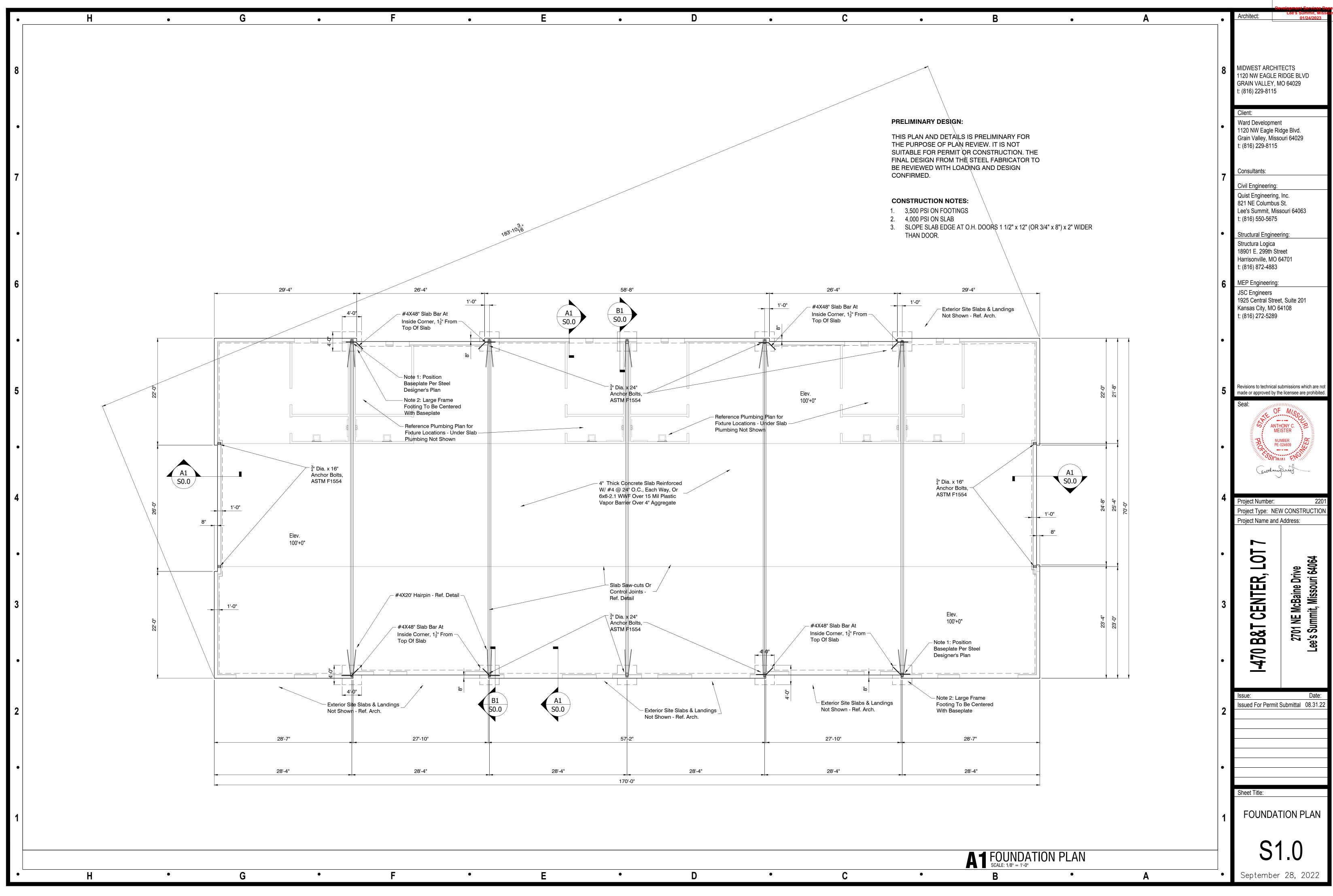




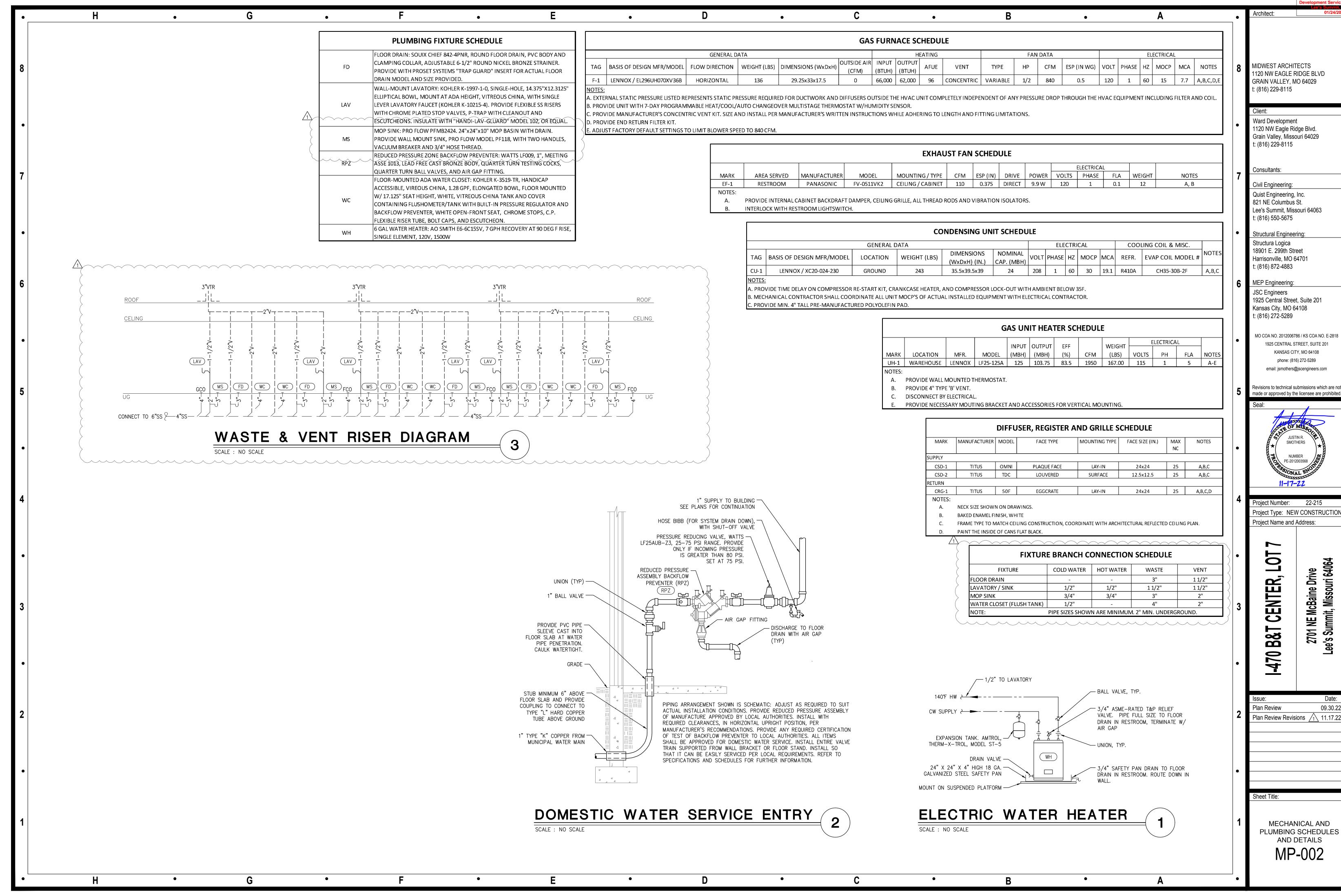


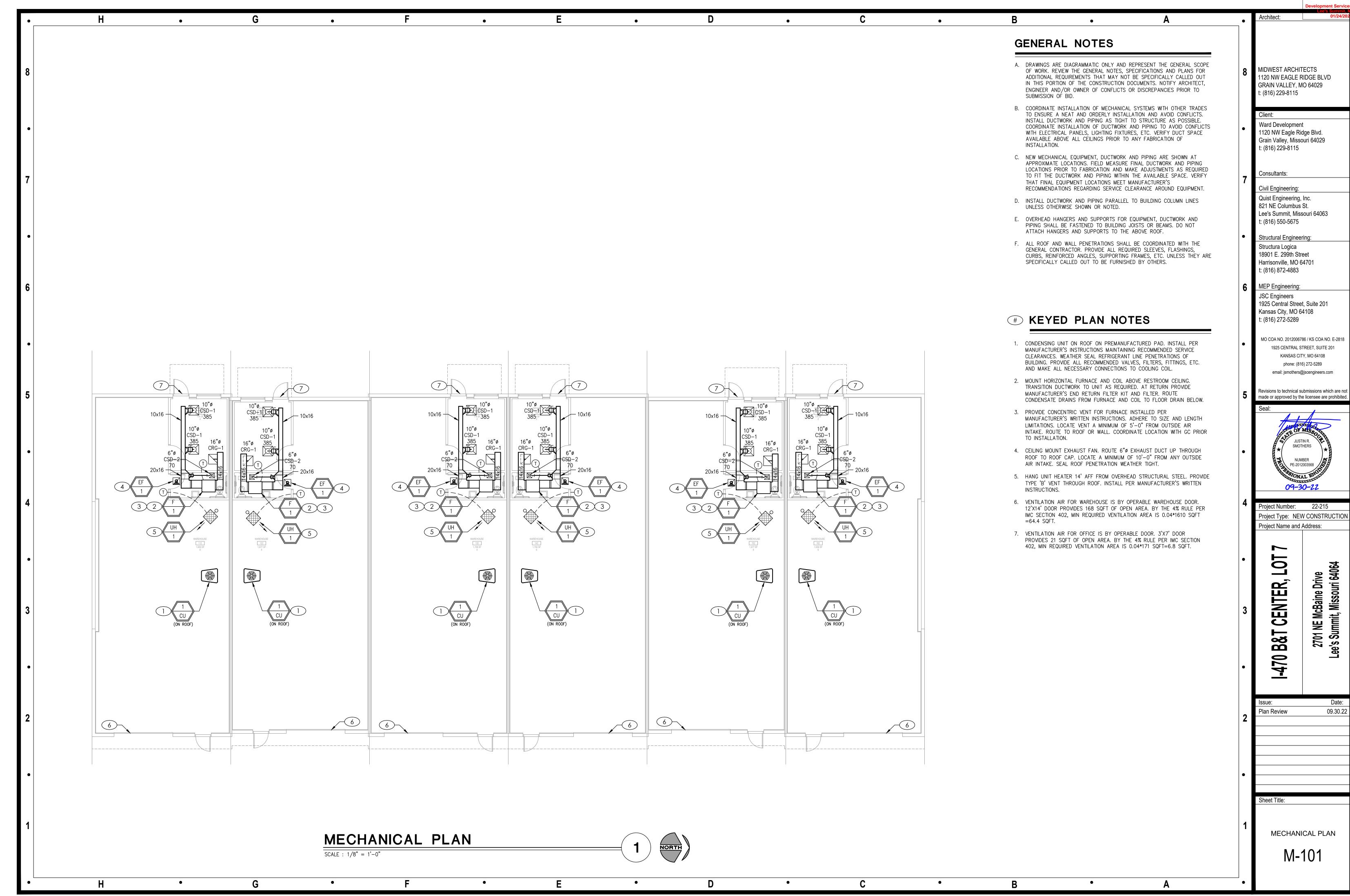


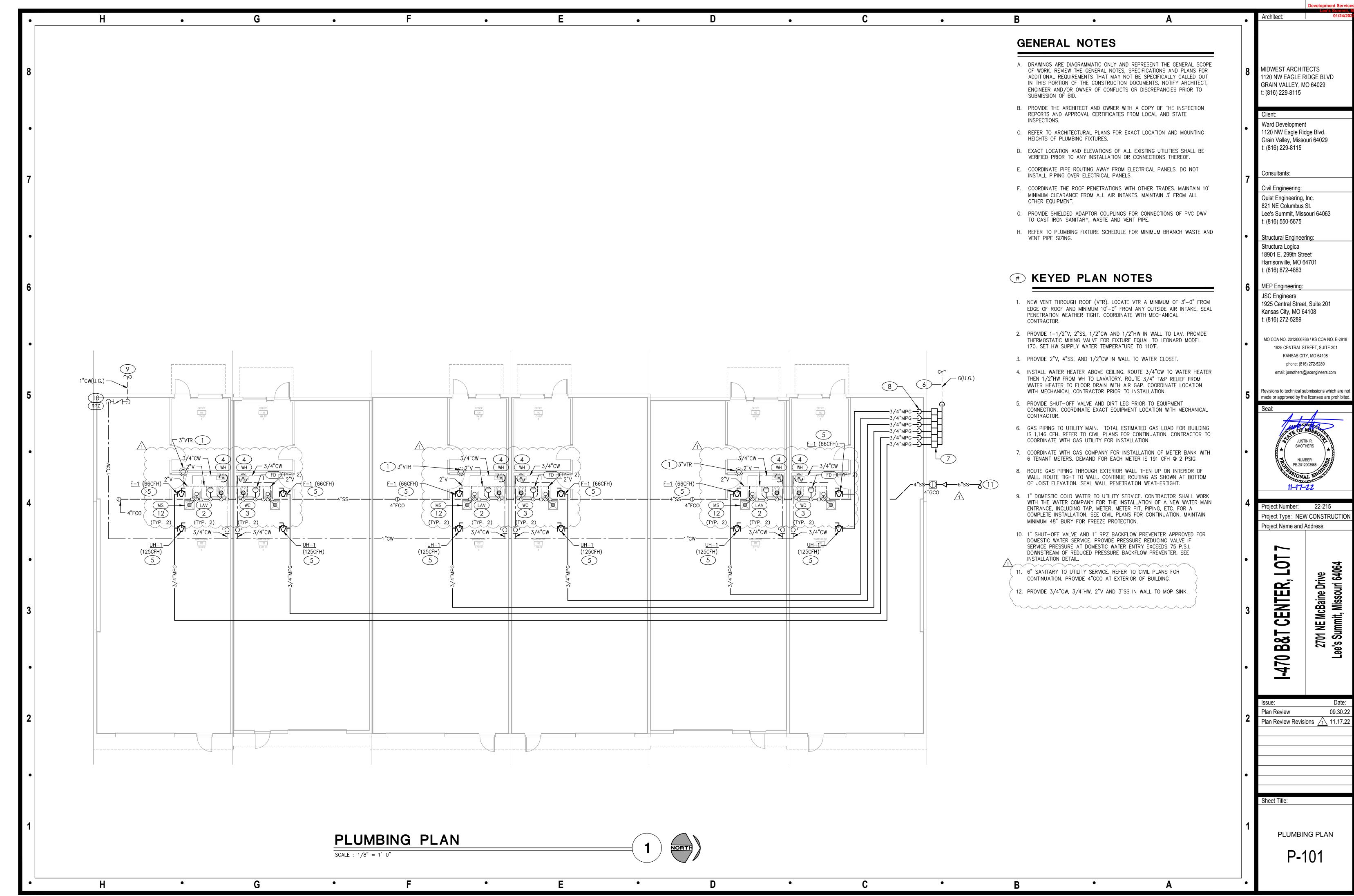




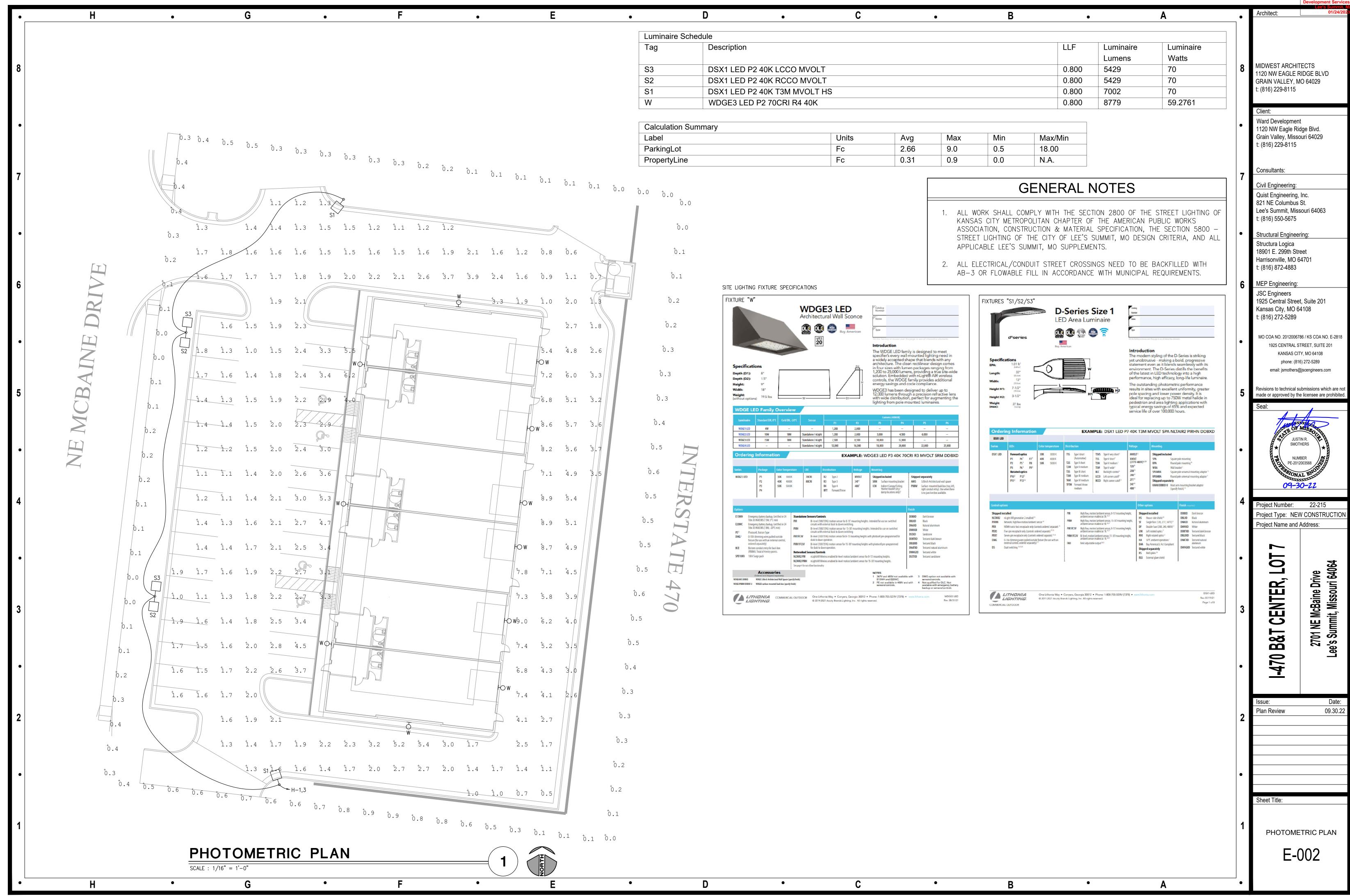
Architect: MECHANICAL AND PLUMBING SPECIFICATIONS M&P SYMBOLS THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, ARE SUPPLY DIFFUSER OR REGISTER. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD <u>. GENERAL PROVISIONS</u> NECESSARILY USED ON THE DRAWINGS. MIDWEST ARCHITECTS G. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF 1120 NW EAGLE RIDGE BLVD HVAC EQUIPMENT & DUCTWORK OR ANVIL. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69. I. PROVIDE AUXILIARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT DUCTWORK. THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED. GRAIN VALLEY, MO 64029 B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR H. SLEEVES J. WHERE DUCTS PASS THROUGH FIRE-RATED FLOORS, WALLS, OR PARTITIONS, PROVIDE FIRESTOPPING PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL APPROVAL AS REQUIRED BY AUTHORITIES. t: (816) 229-8115 BETWEEN DUCT AND WALL. SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND K. WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS OR EXTERIOR WALLS, AND ARE EXPOSED TO VIEW, C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND SPIN-IN FITTING WITH MANUAL VOLUME DAMPER CONTRACTION AND TO ACCOMMODATE PIPE INSULATION. REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. CONCEAL SPACE BETWEEN OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK. INTERIOR PARTITIONS: 16 GAUGE GALVANIZED STEEL. PACK BETWEEN PIPE AND SLEEVE WITH SAME GAUGE AS DUCT. OVERLAP OPENING ON 4 SIDES BY AT LEAST 1-1/2". FASTEN TO DUCT AND Client: E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE Nard Development FITTING AND MANUAL VOLUME DAMPER RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF 10. FLEXIBLE DUCT: 1120 NW Eagle Ridge Blvd. BEFORE FINAL ACCEPTANCE. ELBOW WITH TURNING VANES A. ATCO #086 (R-6), OR EQUAL. Grain Valley, Missouri 64029 F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING B. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1-1/2" THICK. t: (816) 229-8115 NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING CONTRACTOR TO MAINTAIN THE EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS C. MAXIMUM LENGTH OF 6'-0". WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP WHICHEVER IS GREATER. G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF ONE I. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS. RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN A. FLUE FOR GAS FIRED FURNACE SHALL BE AS RECOMMENDED BY THE GAS APPLIANCE MANUFACTURER YEAR FROM FINAL ACCEPTANCE. Consultants: FLUES SHALL BE SCHEDULE 40 PVC OR CPVC PER THE MANUFACTURE'S INSTALLATION REQUIREMENTS. H. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MEP SUPPLY AIR DUCT UP B. PROVIDE MANUFACTURERS STANDARD ACCESSORY ITEMS INCLUDING BIRD PROOF TOP, STORM COLLAR, DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME Civil Engineering: ROOF THIMBLE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. ROOF THIMBLES THROUGH THE OF ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS, OR OBSTRUCTIONS THAT AFFECT HIS BID. SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE SUPPLY AIR DUCT DOWN BUILDING ROOF SHALL BE SUITABLE FOR USE WITH THE ROOF PROVIDED. I. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE MECHANICAL AND PLUMBING DRAWINGS ARE DEVELOPMENT RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA. Quist Engineering, Inc. C. FLUES FOR HEATERS SHALL BE DOUBLE WALL TYPE B EQUAL TO METALBESTOS. PROVIDE ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR B. PIPE INSULATION (ABOVE GRADE): 821 NE Columbus St. EQUIPMENT WITH FLEXIBLE DUCT CONNECTION MANUFACTURER'S STANDARD FITTING AND ACCESSORIES (ROOF THIMBLE, STORM COLLAR, COUNTER INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO 1. THE PIPE INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER Lee's Summit, Missouri 64063 SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS FLASHING, ETC.) AS REQUIRED FOR A COMPLETE INSTALLATION. IN/HR*SQ-FT*F OR LESS. INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK t: (816) 550-5675 FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED INTERFACES WITH OTHER TRADES. MANUAL VOLUME DAMPER PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING J. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS OR WITH A. CENTRIFUGAL CEILING EXHAUSTERS SHALL BE ELECTRICALLY POWERED CENTRIFUGAL TYPE FAN COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. Structural Engineering CODE REQUIREMENTS. THE NOTE OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE. SUITABLE FOR MOUNTING IN THE CEILING WITH A PERFORATED OFF-WHITE METAL GRILLE WITH A SQUARE TO ROUND TRANSITION FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE JOB OR HIGHER STANDARD SHALL PREVAIL. THUMBSCREW ATTACHMENT FOR EASY ACCESS TO FAN HOUSING. UNIT SHALL CONSIST OF A Structura Logica SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP GALVANIZED STEEL HOUSING LINED WITH ACOUSTICAL INSULATION AND SHALL INCLUDE AN INTEGRAL K. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND 18901 E. 299th Street → DUCT TRANSITION ARMAFLEX OR ARMAFLEX 2000. BACKDRAFT DAMPER ON FAN DISCHARGE. MOTOR SHALL BE A PERMANENT SPLIT-CAPACITOR TYPE APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND 4. FOR NON CIRCULATING SYSTEMS THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE Harrisonville, MO 64701 MOTOR, PERMANENTLY LUBRICATED WITH THERMAL OVERLOAD PROTECTION. PROVIDE DISCONNECT WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. TANK AND HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED. THERMOSTAT t: (816) 872-4883 SWITCH OR OTHER MEANS OF DISCONNECT AT MOTOR IN FAN HOUSING. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR INSULATION SCHEDULE: a. DOMESTIC COLD WATER: 13. FURNACE AND CONDENSING UNIT: DUCT MOUNTED SMOKE DETECTOR L. INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AND MEP Engineering: DOMESTIC HOT WATER: A. CONDENSING FURNACES: SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATION GAS FIRED FURNACE SHALL BE FACTORY ASSEMBLED, PRE-WIRED UNIT CONSISTING OF ISOLATION, ETC. REFRIGERANT SUCTION: 1-1/2" FOR PIPING UP TO 1-1/2"ø, JSC Engineers - CEILING DIFFUSER W/FLEX SHEETMETAL CASING, SUPPLY FAN, GAS FIRED HEAT EXCHANGER, AND CONTROLS. CAPACITY M. FURNISH ADEQUATE ACCESS PANELS AND DOORS TO ALLOW FOR FUTURE PIPING ALTERATIONS, 2" FOR PIPING 1-1/2" AND LARGER. 1925 Central Street, Suite 201 DUCT (SEE SPECS) SHALL BE AS SCHEDULED. REPLACEMENT, AND MAINTENANCE OF PIPING. PROPERLY IDENTIFY ALL ACCESS PANELS AND DOORS. C. DUCTWORK INSULATION: Kansas Citv. MO 64108 THE PRIMARY HEAT EXCHANGER SHALL BE ALUMINIZED STEEL CONSTRUCTION WITH A STAINLESS DUCT COVERING: 3/4 LB/CF, FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER AND - NECK SIZE RIGID BRANCH DUCT → t: (816) 272-5289 STEEL SECONDARY HEAT EXCHANGER. 2. OPERATION AND MAINTENANCE MANUALS: FACING. THICKNESS AS SCHEDULED, INSTALLATION IN ACCORDANCE WITH MANUFACTURERS SAME SIZE AS (INCHES) THE FURNACE SHALL BE OF THE CONDENSING TYPE, UTILIZING A SEALED COMBUSTION CHAMBER. A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING RECOMMENDATIONS. DUCT COVERING SHALL BE MINIMUM R-6. DIFFUSER NECK. UNIT SHALL INCLUDE FINNED CAST IRON HEAT EXCHANGER, ALUMINIZED STEEL EXHAUST DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, — AIRFLOW (CFM) a. SUPPLY AIR DUCT: DECOUPLER SECTION AND FINNED STAINLESS STEEL TUBE CONDENSER SECTION. ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT. MO COA NO. 2012006786 / KS COA NO. E-2818 b. RETURN AIR DUCT: B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN 4. THE UNIT SHALL BE EQUIPPED WITH THE MANUFACTURER'S STANDARD CONTROLS INCLUDING 24V 1925 CENTRAL STREET, SUITE 201 THE OPERATING AND MAINTENANCE MANUALS. CONTROL TRANSFORMER, AUTOMATIC SPARK IGNITION, AUTOMATIC GAS VALVE TRAIN, HIGH 8. TESTING, BALANCING AND CLEANING KANSAS CITY, MO 64108 TEMPERATURE LIMIT SWITCH, AND FAN TIMED DELAY RELAY. A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR EXHAUST FAN 3. MANUFACTURERS RETURN AIR INLET ON UNIT SHALL BE PROVIDED WITH 1" THROWAWAY TYPE FILTER AND SLIDE IN phone: (816) 272-5289 COVERED WITH INSULATION. A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE FRAME, MOUNTED ON THE UNIT. B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD email: jsmothers@jscengineers.com INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS 6. FAN SHALL BE A DIRECT DRIVE MULTI-SPEED BLOWER, RESILIENTLY MOUNTED IN THE CASING. FOR A PERIOD OF NOT LESS THAN 15 MINUTES. PER THE LOCAL PLUMBING CODE. WITH NO LEAKS. - FXHAUST GRILLE LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE MOTOR SHALL BE PROVIDED WITH AUTOMATIC THERMAL OVERLOAD PROTECTION. C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN. FURNACE SHALL BE AGA APPROVED. 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS Revisions to technical submissions which are n B. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED EQUIPMENT. IT IS THE HVAC EQUIPMENT & DUCTWORK B. CONDENSING UNIT SHALL BE FACTORY ASSEMBLED AND TESTED AIR-COOLED CONDENSING UNIT made or approved by the licensee are prohibited THAN 2 HOURS. WITH NO LEAKS. RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE CONSISTING OF COMPRESSOR, CONDENSER COIL, FAN, MOTOR, REFRIGERANT RESERVOIR, OPERATING D. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT CONTROLS, ETC. CAPACITY AND ELECTRICAL CHARACTERISTICS SHALL BE AS SCHEDULED. <u>SYMBOL</u> <u>DESCRIPTION</u> INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED, STERILIZED AND OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COMPRESSOR: HERMETICALLY SEALED WITH BUILT—IN OVERLOADS AND VIBRATION ISOLATION. CHLORINATED IN ACCORDANCE WITH THE HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE COST TO THE OWNER. COMPRESSOR MOTOR SHALL HAVE THERMAL AND CURRENT SENSITIVE OVERLOAD DEVICES, SANITARY SEWER (ABOVE GRADE) ____SS-___ THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH INTERNAL HIGH PRESSURE PROTECTION, HIGH AND LOW PRESSURE CUTOUT SWITCHES, START 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED CAPACITOR AND RELAY, 2-POLE CONTACTOR, CRANKCASE HEATER, AND TEMPERATURE SANITARY SEWER (BELOW GRADE) SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT A. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK. ACTUATED SWITCH AND TIMER TO PREVENT COMPRESSOR RAPID CYCLE. IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL COIL SHALL BE COPPER TUBING WITH ALUMINUM FINS: COMPLETE WITH LIQUID ACCUMULATOR CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION SMOTHERS CONDENSATE DRAIN AND LIQUID SUBCOOLER. UNIT SHALL INCLUDE FILTER DRYER, SIGHT GLASS, COMPRESSOR SAMPLES OF WATER FROM THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH. A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS SERVICE VALVE, LIQUID LINE SERVICE VALVE, AND REFRIGERANT PIPING EXTENDED TO EXTERIOR E. NATURAL GAS SYSTEMS SHALL BE TESTED WITH COMPRESSED AIR AT A PRESSURE OF NOT LESS THAN REQUIRED BY FIXTURE MANUFACTURER. -----VENT PIPING OF CASING. 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR A PERIOD OF 2 HOURS B. ALL EXPOSED PIPE IN FINISHED AREAS SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE. PROVIDE CLEANOUTS AT EACH CHANGE IN DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. WITH NO LEAKS 14. ELECTRIC WALL HEATERS G = GAS PIPING LESS THAN 2 PSIMONAL BY F. THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS. A. UNIT SHALL INCLUDE ELECTRIC HEATING ELEMENTS WITH SAFETY AND DISCONNECT DEVICES AS PERFORMANCE OF ALL TESTS SO THAT THEY TESTS MAY BE WITNESSED IF DEEMED NECESSARY. E. CLEANOUTS MPG = GAS PIPING 2 PSI09-30-22 REQUIRED BY NEC, INCLUDING RELAYS, CONTROLLERS AND REQUIRED EQUIPMENT TO FORM A G. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED BALANCING PERSONNEL WHO HAVE UNFINISHED FLOOR (FCO): JR SMITH #4240, OR EQUAL COMPLETE AND FUNCTIONAL HEATER. PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES AND ARE FAMILIAR WITH TESTING AND WALL (WCO): JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR. B. ELEMENTS SHALL BE HEAVY DUTY ALUMINUM-FINNED, COPPER CLAD STEEL SHEATH. PROVIDE COLD WATER PIPING BALANCING PROCEDURES OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL GRADE (GCO): JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER. AUTOMATIC RESET THERMAL OVER-HEAT PROTECTION. THERMAL PROTECTOR SHALL BE LINEAR TYPE Project Number: 22-215 ENVIRONMENTAL BALANCING BUREAU (NEBB). F. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES. TO SENSE TEMPERATURES THE ENTIRE LENGTH OF HEATING ELEMENT. ——HW—— — — HOT WATER PIPING Project Type: NEW CONSTRUCTION BALANCING SHALL INCLUDE THE BALANCING OF THE EQUIPMENT AND AIR DISTRIBUTION SYSTEMS INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. C. FANS SHALL BE DIRECT DRIVE USING PERMANENT SPLIT CAPACITOR TYPE MOTORS WITH BUILT-IN TO PROVIDE DESIGN QUANTITIES INDICATED AND VERIFICATION PERFORMANCE OF ALL EQUIPMENT AUTOMATIC RESET MOTOR OVERLOAD PROTECTION. Project Name and Address: INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL AND AUTOMATIC CONTROLS. PIPE ELBOW DOWN CONDENSATE DRAIN SHALL BE INSTALLED AT 1/8" PER FOOT FALL. WITH IN 30 DAYS OF THE COMPLETION OF THE TESTING AND BALANCING WORK, SUBMIT THE G. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTION TO MATCH THE PIPE SYSTEM IN TEST AND BALANCING REPORT BEARING THE SIGNATURE OF THE TEST AND BALANCE ENGINEER. PIPE ELBOW UP WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED), PROVIDE DIELECTRIC UNIONS ON ALL PIPING THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, CONNECTIONS TO HOT WATER HEATERS AND EXPANSION JOINTS. AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE GATE VALVE \longrightarrow H. ALL SEWER PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING. REPORTS SHALL BE BOUND IN A VINYL BINDER AND THE BINDER LABELLED OR MAY BE AN ELECTRONIC BACKFLOW PREVENTER INSTALL 4" AND SMALLER PIPE AT A MINIMUM OF 2% SLOPE. PDF SUBMITTAL. INSTALL 6" AND LARGER PIPE AT A MINIMUM OF 1% SLOPE. ENTER, McBaine Dri BALL VALVE A. ALL DUCTWORK UNLESS OTHERWISE INDICATED SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 527, LOCKFORMING QUALITY, WITH G60 ZINC COATING IN ACCORDANCE WITH A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND). ASTM A 525, AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. PLUG VALVE TYPE L HARD DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERED FITTINGS. B. DUCTWORK METAL GAUGES, REINFORCING, ETC SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA GATE VALVE: CRANE #428 OR EQUAL. FLOOR CLEANOUT (FCO) "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION FOR A 2" WATER GAUGE STATIC PRESSURE. BALL VALVE: CRANE #932 OR EQUAL C. ALL FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION 当 E B. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING, 1"-3" (UNDERGROUND). 1. TYPE K HARD OR SOFT DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERING STANDARDS," LATEST EDITION. WALL CLEANOUT (WCO) 2701 .ee's Su D. RECTANGULAR DUCT: ර ELBOWS, UNLESS INDICATED OTHERWISE, SHALL BE CONSTRUCTED WITH CENTERLINE RADIUS OF C. SANITARY SEWER AND VENTS (UNDERGROUND, INTERIOR TO BUILDING). FLOOR DRAIN $\mathbf{\Omega}$ NOT LESS THAN 1.5 DUCT WIDTH OR SQUARE ELBOWS WITH DOUBLE WALL STREAMLINE ELBOWS. POLYVINYL CHLORIDE (PVC) DWV PIPE, SCHEDULE 40, SOLVENT JOINT. TAKE-OFF FITTINGS: BRANCH DUCT TAKE-OFF FITTINGS FOR SUPPLY AND EXHAUST SEWER LINES SHALL BE LOCATED IN GENERAL AS SHOWN ON THE DRAWINGS. THE EXACT 2 DIFFUSER/REGISTERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER WITH LOCKING HOSE BIB LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN SUCH A MANNER AS TO MAINTAIN QUADRANT, DAMPER NOT REQUIRED ON RETURN AIR. FOR RECTANGULAR TO ROUND TAKE-OFFS, PROPER CLEARANCES AND SUFFICIENT SLOPE TO ENSURE DRAINAGE. UTILIZE A "BUCKLEY" MODEL 3300 & 3300D OR EQUAL. VENT STACKS SHALL BE EXTENDED FULL SIZE THROUGH THE ROOF AND FLASHED WITH 4 POUND ABBREVIATIONS RETURN AIR ACOUSTIC ELBOWS AND SOUND BOOTS SHALL BE A SQUARE ELBOW WITH NO LEAD SHEETS TURNED DOWN INTO THE STACK AT LEAST 2" AND EXTENDED 12" IN ALL AFF ABOVE FINISHED FLOOR MECHANICAL CONTRACTOR TURNING VANES. DIRECTIONS FROM THE PIPE AT THE ROOF LINE. VENTS THROUGH ROOF SHALL NOT BE LESS BAS BUIDLING AUTOMATION SYSTEM MIN MINIMUM 4. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE A MINIMUM 1 TO 3. THAN 3". PVC PIPING SHALL NOT BE USED FOR VENT PIPING THROUGH THE ROOF. WHERE BACKDRAFT NOISE CRITERIA E. ROUND AND OVAL SPIRAL SEAM DUCT: APPLICABLE FOR ROOFING SYSTEM USED, PROVIDE FLASHING VIA PLEATED EPDM CONE IN LIEU OUTSIDE AIR CFM CUBIC FEET PER MINUTE PROVIDE RADIUS TYPE FITTINGS FABRICATED OF MULTIPLE SECTIONS WITH MAXIMUM 15 DEGREE OF LEAD. ALL VENT STACKS IN OR AT OUTSIDE WALLS SHALL BE OFFSET 1'-6" MINIMUM FROM RETURN AIR DDC DIRECT DIGITAL CONTROL CHANGE OF DIRECTION PER SECTION. UNLESS SPECIFICALLY DETAILED OTHERWISE, USE 45 09.30.22 Plan Review OUTSIDE WALLS BEFORE GOING THROUGH THE ROOF, TO FACILITATE FLASHING. DEGREE LATERALS FOR BRANCH TAKEOFF CONNECTIONS. WHERE 90 DEGREE BRANCHES ARE SUPPLY AIR DIRECT EXPANSION D. CONDENSATE DRAIN AND INDIRECT WASTE (ABOVEGROUND) INDICATED PROVIDE CONICAL TYPE TEES. SMOKE DUCT DETECTOR FXHAUST AIR 1. PVC DWV PIPE, SCHEDULE 40, SOLVENT JOINT. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE MINIMUM 1 TO 3. EXISTING TO FLOOR ABOVE E. NATURAL GAS PIPING: TO FLOOR BELOW FROM FLOOR BELOW ROUND LONGITUDINAL SEAM DUCT: USE FOR RIGID METAL DUCT ON LEAVING SIDE OF DUCT IN 1. SCHEDULE 40 BLACK STEEL PIPING: 2" AND SMALLER WITH SCREWED JOINTS AND 150 LB. CONCEALED LOCATIONS FOR EXTENSION TO FLEX FOR DIFFUSERS. GPM GALLONS PER MINUTE TYPICAL MALLEABLE IRON SCREWED FITTINGS. PIPE 2-1/2" AND LARGER SHALL USE STANDARD WEIGHT F. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS IN WC INCHES OF WATER COLUMN UNDER GROUND BLACK STEEL WELDING FITTINGS WITH WELDED JOINTS. RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASED CAULKING AND GLAZING MAX MAXIMUM WCO WALL CLEANOUT GAS VALVES SHALL BE ROCKWELL 142/143, PLUG VALVE. COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED MBH 1000 BTU PER HOUR W/O WITHOUT SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE I.F.G.C. **ANNOTATION** PROVIDE A.G.A. APPROVED SHUT OFF VALVES AND DIRT LEGS AT CONNECTIONS TO ALL (1) UNCONDITIONED SPACES: CLASS B CLASS C CLASS B (2) CONDITIONED SPACES (PLENUM): CLASS C CLASS B CLASS C EPOXY PAINT ALL EXTERIOR GAS PIPING TO PREVENT CORROSION. SUPPLY 2"WC OR LESS <u>EXHAUST</u> (#) PLAN WORK NOTE <u>RETURN</u> F. REFRIGERANT ASTM B 280, TYPE ACR, HARD DRAWN STRAIGHT LENGTHS, AND SOFT-ANNEALED COILS, G. DUCT SIZES SHOWN ON THE DRAWINGS ARE SHEET METAL SIZES. INCREASE SHEET METAL SIZES Sheet Title: MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED SEAMLESS COPPER TUBING. ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER. AND INSTALLED UNLESS NOTED OTHERWISE) WROUGHT COPPER, ANSI B16.22, STREAMLINED PATTERN, FITTINGS. BRAZED JOINTS, AWS A 5.8 H. WHETHER SHOWN ON PLANS OR NOT, PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH CLASSIFICATION BAG-1 (SILVER). MECHANICAL AND TUBING TO BE FACTORY CLEANED, READY FOR INSTALLATION, AND HAVE ENDS CAPPED TO PLUMBING FIXTURE DESIGNATION PROTECT CLEANLINESS OF PIPE INTERIORS PRIOR TO SHIPPING. PLUMBING 4. SIZE AND INSTALLATION OF PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND CONNECTION POINT OF NEW WORK TO EXISTING SYMBOLS A DETAIL REFERENCE UPPER NUMBER INDICATED DETAIL NUMBER

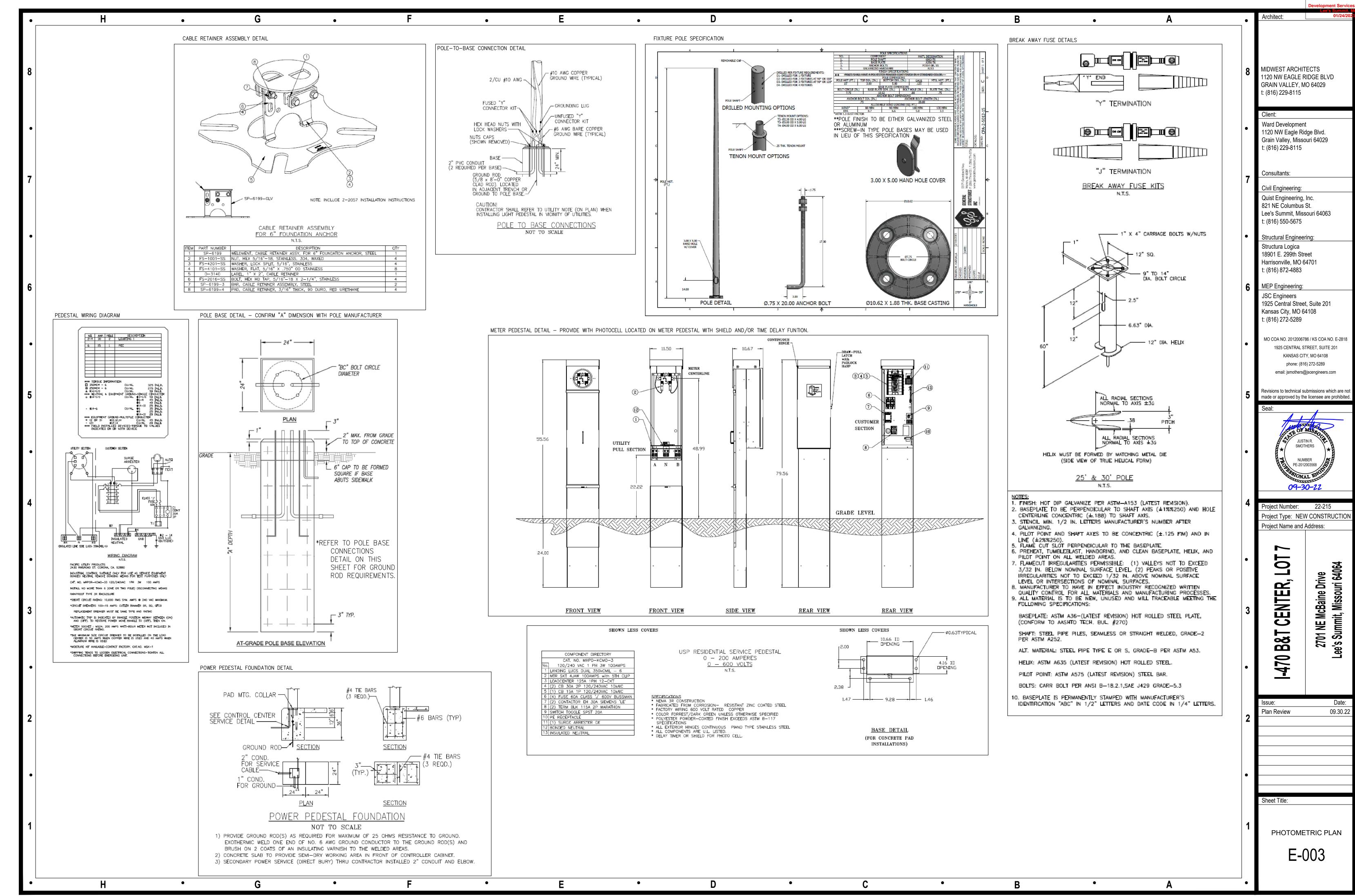


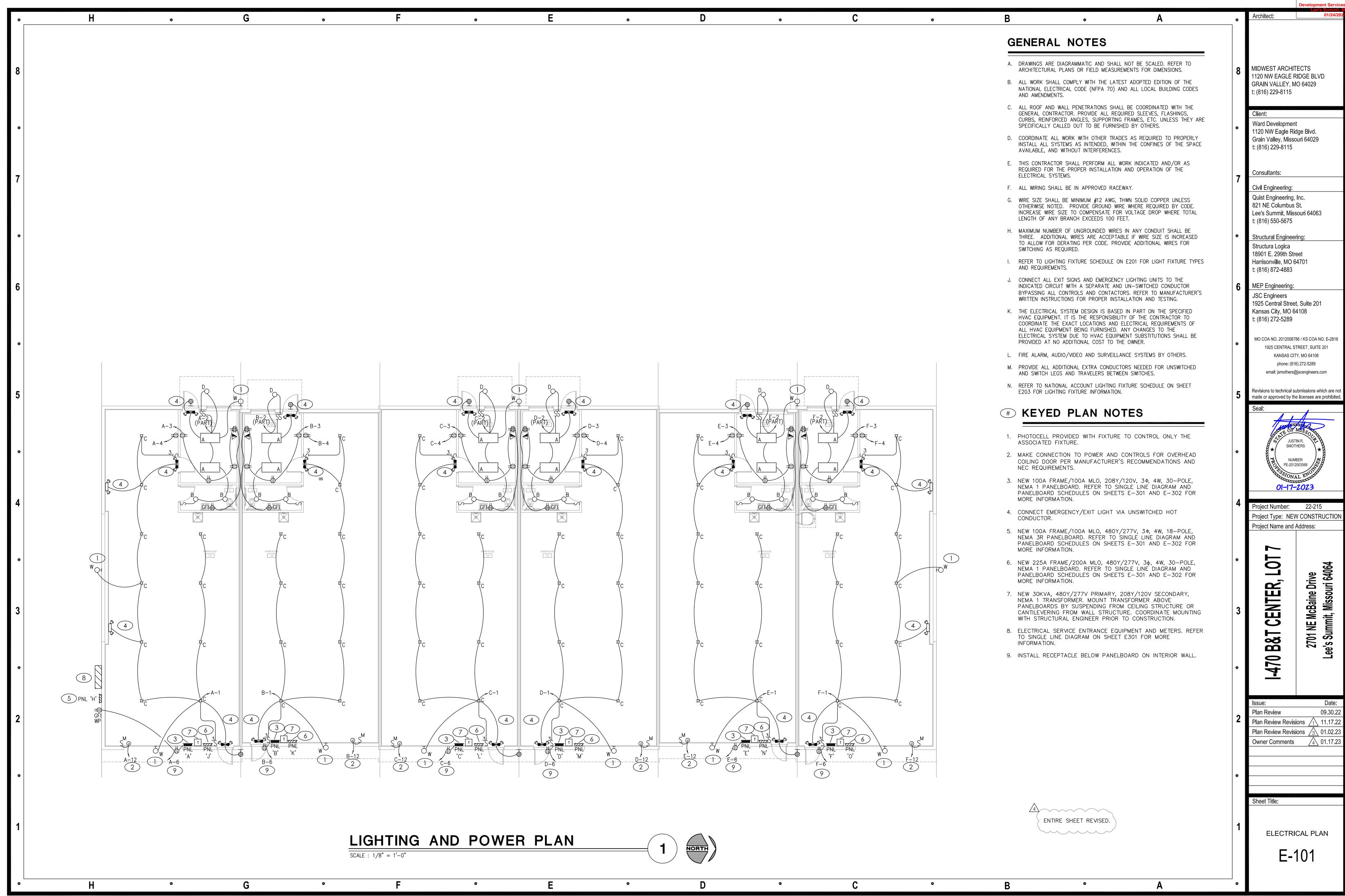


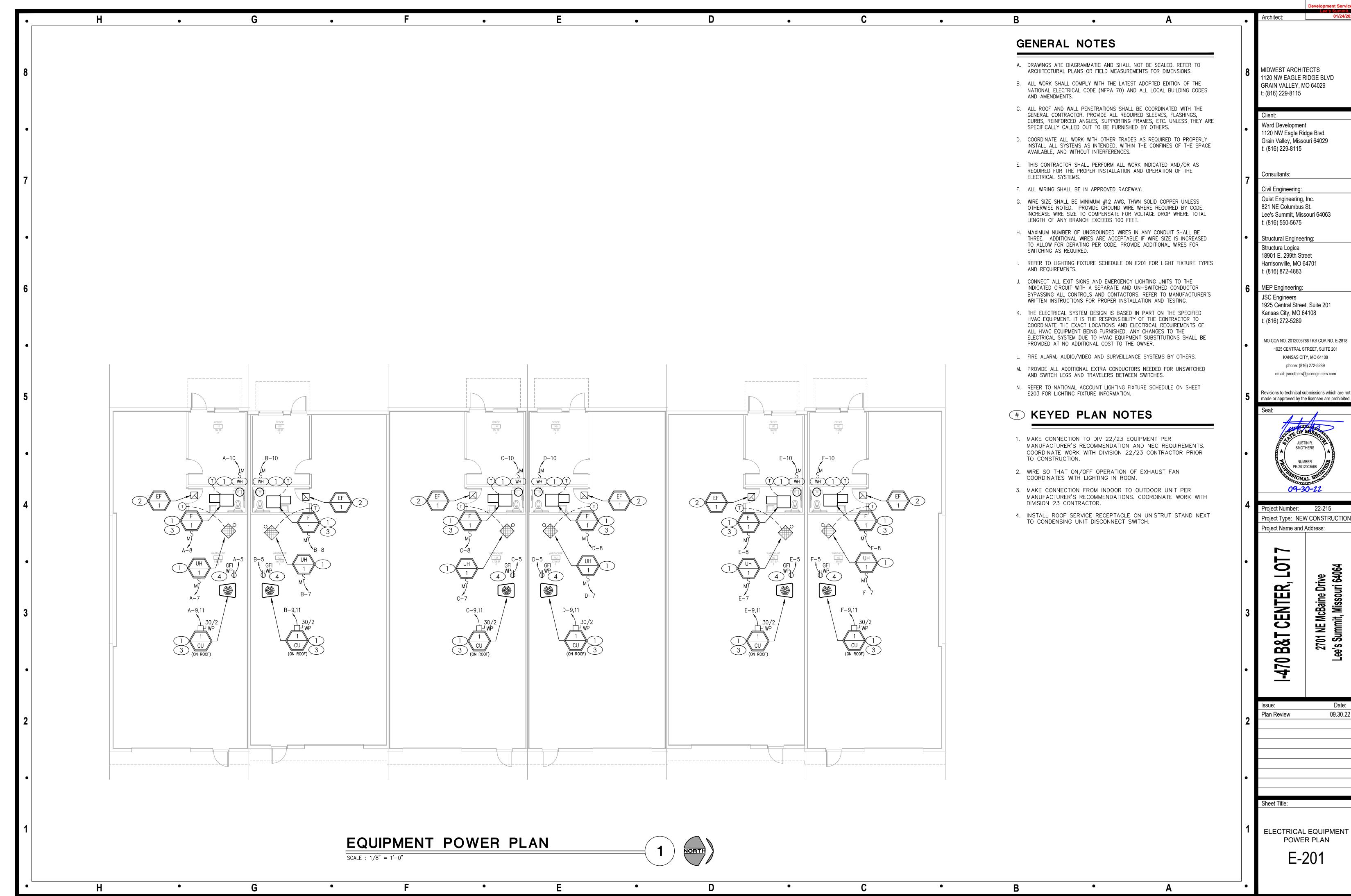


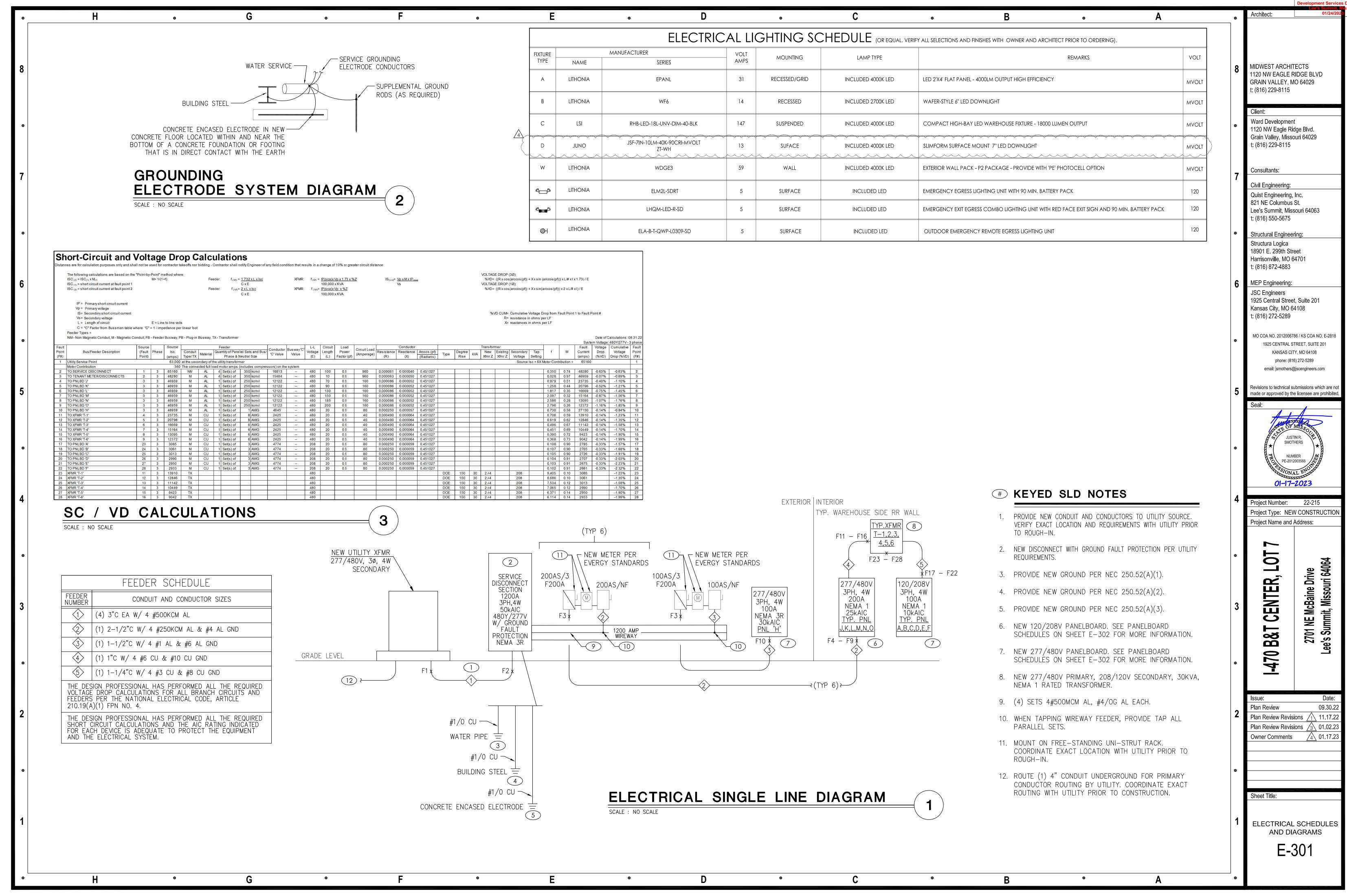
		· · ·		_			B •	
		ELECTRICA	AL SPECIFICATIONS				SYMBOLS LEGEND	
DRAWINGS AND SPECIFIED HEREIN, INCLU A. LIGHTING FIXTURES AS INDICATED AN	RED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN O DING BUT NOT LIMITED TO, THESE MAJOR ITEMS.) SPECIFIED ON THE PLANS. IT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT.	MATERIALS OF EQUAL QUALITY AND AESTHETI ON THE FOR THE MATERIALS SPECIFIED. NO APPROVE OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. ENGINEER DETERMINING EQUAL MATERIALS WIL	NGS ARE USED AS A STANDARD OF QUALITY. ANY C VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE AL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, AFTER BIDDING, THE DECISION OF THE ARCHITECT AND/OR LL BE FINAL. DENTICAL BOUND SETS OF SHOP DRAWINGS ON THE	 J. PANEL BOARDS 1. CIRCUIT BREAKER TYPE AS INDICATED ON HAVE PANEL HAVE PANEL BOARD TYPE PANELS 2. MANUFACTURERS SHALL BE GENERAL ELESIZES, AND RATINGS AS INDICATED ON D 3. THE CIRCUIT BREAKERS SHALL BE OPERA 	CONSTRUCTION WITH BOLT—ON CIRCUIT CTRIC, SQUARE D, SEIMENS, CUTLER—RAWINGS.	T BREAKERS FOR 30 -HAMMER WITH VOLTAGE,	NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, E ARE NECESSARILY USED ON THE DRAWINGS. IG FIXTURES — SYMBOL/LETTER INDICATES LIGHT FIXTURE AS INDICATED ON I	8 NIDWEST 1120 NW I
C. TELEPHONE, TELEVISION, AND FIRE A DBTAIN AND REVIEW ALL OTHER DRAWIN	ARM. OUTLETS AND CONDUIT AS INDICATED. GS INCLUDING REFLECTED CEILING PLAN, INTERIOR AND EX MILL WORK DRAWINGS. COORDINATE INSTALLATION OF ALI	FOLLOWING ITEMS: A. LIGHTING FIXTURE CUTS AND PERFORMANC (TERIOR B. OUTLINE DRAWINGS AND DATA SHEETS OF	E DATA. EACH PANELBOARD, LOAD CENTERS, AND DISTRIBUTION	THE PANEL BOARD WITHOUT DISTURBING DESIGN THAT COMBINATION OF SINGLE-P ASSEMBLED ON THE SAME PANEL. EACH MAN TERMINALS SHALL BE SOLDERLESS ACCEPTABLE.	THE ADJACENT UNITS. BRANCH BREAK DLE, DOUBLE—POLE, AND THREE—POLE BRANCH CIRCUIT SHALL BE CLEARLY I	KERS SHALL BE OF SUCH E BREAKERS CAN BE NUMBERED. BRANCH AND		Client: Ward Dev
OBTAIN SUBMITTAL AND SHOP DRAWING INSTALLATION ACCORDINGLY.	FROM OTHER TRADES AND EQUIPMENT TO COORDINATE CURRENT APPLICABLE CODES AND GOVERNING AGENCIES H	D. WIRING DEVICES AND COVERPLATES. E. ALL CIRCUIT BREAKERS INSTALLED IN PAN 3. SUBMIT ITEMS AT ONE TIME IN A NEAT AND PARTIAL SUBMITTALS WILL NOT BE ACCEPTAB	ELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS. ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT	L. LIGHTING FIXTURES	LL FIXTURES. THE LAMPS SHALL BE	BY THE SAME		Grain Vall t: (816) 22
JURISDICTION. FIRE ALARM SYSTEM, IF REQUIRED PER CONTRACTOR. DESIGN SHALL BE IN ACC SUBMIT STAMPED DRAWINGS TO AHJ FO RESPONSIBLE FOR TESTING AND VERIFY!	BC, SHALL BE DESIGN—BUILD BY OWNER'S/GC'S FIRE ALAF DRDANCE WITH NFPA 72. FIRE ALARM CONTRACTOR SHALL REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR IS IG THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEE ISE LEVELS. ADD HORNS WHERE REQUIRED TO MAINTAIN M	C. SYSTEM GROUNDING 1. GROUNDING SHALL COMPLY WITH REQUIREMEN METALLIC PARTS OF ELECTRICAL EQUIPMENT, GROUNDING CONDUCTOR OF NONMETALLIC SHI RACEWAYS, AND GROUNDED CONDUCTORS OF ETS A 2. GROUNDING CONDUCTOR (NEUTRAL) OF THE WORLD GROUNDING CONDUCTOR AT A SINGLE PLACE	TS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, EATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC THE WIRING SYSTEM SHALL BE GROUNDED. WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED	FRAMES AND HANGERS AS REQUIRED. C	EILING CONSTRUCTION, ARCHITECTURAL EILING CONDITION. HOTOCELLS, CONTRACTORS AND FULL NTROLS INDICATED ON THE DRAWINGS. AGON, GENERAL ELECTRIC, TORK, OR	LIGHTING CONTROL	WALL WASHER	7 Consultan Civil Engir Quist Eng 821 NE Consultan Lee's Sum
PROVIDE FIRE STOP ON ALL PIPING THA WALL RATING. REFER TO ARCHITECTURA CONTRACTOR SHALL PROVIDE FIRE RATE	PENETRATES RATED WALLS. METHOD OF FIRE STOP SHAID DRAWINGS FOR LOCATION OF FIRE RATED WALLS. THIS DENCLOSURES AROUND ALL ROUGH—IN BOXES, PANELS, ES AND SHALL FIRE CAULK ALL OPENINGS IN RATED ASSE	CONDUCTOR (NEUTRAL) TO THE GROUNDING OF ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PLANS OR SPECIFICATIONS. A GROUND BUS SEPARATE FROM THE NEUTRAL	CONDUCTOR CONNECTION SHALL BE LOCATED IN THE PROTECTION OR WHERE OTHERWISE INDICATED ON THE AL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS PROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S	 3. PHOTOCELLS SHALL BE EQUAL TO TORK N. TELEPHONE AND CABLE TELEVISION SYSTEM 1. TELEPHONE WALL OUTLETS SHALL CONSISTENT UNLESS OTHERWISE INDICATED. PROVIDE 	I <u>S</u> IT OF STANDARD BOXES MOUNTED 18"	" ABOVE THE FLOOR	SINGLE FACE EXIT SIGN — UNIVERSAL MOUNTED SINGLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS — UNIVERSAL MTD DOUBLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS — UNIVERSAL MTD	t: (816) 55 Structural Structural
ENTRANCE FROM THE MAIN SERVICE TO CONTRACTOR SHALL COORDINATE THE II	OVIDE CONDUIT, TRENCH, AND BACKFILL FOR ELECTRICAL UTILITY POINT OF ELECTRICAL SERVICE. ELECTRICAL STALLATION OF THE ELECTRICAL SERVICE ENTRANCE WITH	SERVICE 4. RECOMMENDATIONS, PRIOR TO ENERGIZING EQ GROUND BUSES AND NEUTRAL BUSES IN ALL THOSE PROVIDED IN ANY EQUIPMENT SHALL E AS SPECIFIED ABOVE FOR THE SERVICE ENTR	UIPMENT. DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AND BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED	CABLE. 2. CABLE TELEVISION OUTLETS SHALL CONSI UNLESS OTHERWISE INDICATED. PROVIDE CABLE.	ST OF STANDARD BOXES MOUNTED 18 A TERMINAL MOUNTING BOARD FOR TH	HE INCOMING SERVICE	DUAL HEADED EMERGENCY UNIT COMBO DUAL HEADED EMERGENCY AND EXIT SIGN UNIT IG CONTROLS	18901 E. 2 Harrisonvi t: (816) 87
AND CATV SERVICE FROM THE TELEPHO CATV COMPANY POINT OF SERVICE COO	OVIDE CONDUIT, TRENCH, AND BACKFILL FOR PRIMARY PH IE TERMINAL BOARD OR CABINET TO THE PHONE COMPAN' DINATE WITH LOCAL UTILITY COMPANIES.	ONE Y AND THE GROUND BUS IN THE DISTRIBUTION EQUIF WHERE THEY ARE PROVIDED. WHERE LUGS A SHALL BE CONNECTED TO EQUIPMENT ENCLOSE	PMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS RE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT ROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND	O. GUARANTEE 1. GUARANTEE ALL MATERIAL FURNISHED AI FROM DATE OF FINAL ACCEPTANCE OF W TRACEABLE TO MATERIAL FURNISHED AS HEREUNDER, SHALL BE MADE GOOD AT N	ORK. ANY DEFECTS DEVELOPING WITH A PART OF THIS SECTION OR WORKMA	HIN THIS PERIOD, IANSHIP PERFORMED	SINGLE POLE SWITCH @ +48" UNLESS NOTED CO SWITCH BANK @ +48" UNLESS NOTED. LOWER CASE LETTER INDICATES FIXTURE CONTROLLED.	6 MEP Engi JSC Engir 1925 Cent
THE REGULATIONS OF THE LATEST EDITI REQUIREMENTS OF THE POWER, TELEPHO INSTALLATION.	APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, ON OF THE NATIONAL ELECTRIC CODE AND WITH THE NE, AND CATV COMPANIES FURNISHING SERVICES TO THIS INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE	WITH 6. RACEWAYS MAY NOT BE USED AS A GROUND CONDUIT SHALL HAVE SEPARATE CODE SIZED INSURE A CONTINUOUS GROUNDING PATH. 7. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS SHAPE	ING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO			S3 S4 SD SM	3-WAY SWITCH @ +48" UNLESS NOTED 4-WAY SWITCH @ +48" UNLESS NOTED DIMMER SWITCH - SIZE AS REQUIRED @ +48" UNLESS NOTED MANUAL MOTOR STARTER	Kansas Ci t: (816) 27
MINIMUM REQUIREMENTS: A. THE NATIONAL ELECTRICAL MANUFA B. THE NATIONAL ELECTRICAL CODE, INC C. UNDERWRITER LABORATORIES INCORP D. AMERICAN NATIONAL STANDARDS INS E. INTERNATIONAL BUILDING CODE.	TURER'S ASSOCIATION STANDARDS. LUDING LOCAL AMENDMENTS. PRATED STANDARDS.	SOLDERLESS BRONZE GROUNDING DEVICES. D. WIRE CONDUCTOR SIZES SHOWN ON THE DRAWINGS SPECIFIED, ALL WIRE SHALL BE TYPE XHHW CAWG, TYPE THHN/THWN INSULATION FOR FEEL	ARE BASED ON COPPER WIRE. UNLESS OTHERWISE OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 DERS AND BRANCH CIRCUITS 4 AWG AND SMALLER. ALL				WALL SWITCH WITH OCCUPANCY SENSOR. DIGITAL LOW VOLTAGE WALL S +48" UNLESS NOTED. TWO BUTTON DIGITAL LOW VOLTAGE WALL SWITCH. PROVIDES ON/OFF/O +48" UNLESS NOTED. PROVIDE EXTRA CONTROL CABLES NEEDED TO F	D-10V DIMMING. SWITCH
SPECTION OF SITE PRIOR TO SUBMITTING A BID FOR ELECT PROPOSED CONSTRUCTION AND SHALL	RICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF HOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, A ED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLITHE EXISTING CONDITIONS.	THE AND 3. SHALL BE ALUMINUM ALLOW AA-8000 SERIES THE WIRES SHALL BE MARKED WITH COLOR T REQUIRED BY LOCAL ORDINANCES GROUND WI 120V-WHITE, AND LIVE WIRES 208Y/120V ANI AND BLUE (PHASE C). CIRCUIT SHALL BE LA	O SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE RES SHALL BE GREEN, NEUTRAL WIRES SHALL BE D 120/240 SHALL BE BLACK (PHASE A), RED (PHASE B), ABELED IN EACH J—BOX.			(OS) (PP) (PC) (TC)	PHOTOCELL TIMECLOCK	Revisions to made or app Seal:
LABELED CONTAINERS. PROTECT AGAIN OR STORAGE. CONTRACTOR SHALL PRO MATERIALS UNTIL FINAL ACCEPTANCE B OWNER, ANY DAMAGE OR LOSS THAT M	ERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO M	NED, SPLICE KIT OR APPROVED EQUAL. SEAL END ANDLING APPROVED EQUAL. DR 6. PROVIDE SOLID CONDUCTOR FOR 12 AWG AND THE 7. NO WIRE SHALL BE INSTALLED IN THE CONDU MINERALAC NO. 100 OR EQUIVALENT AS A LU	IOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" S OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR O SMALLER. IT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE JBRICANT TO FACILITATE THE INSTALLATION OF THE			POWER ZZZZ ZZZ T	DISTRIBUTION SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD 277/480V, 3 PHASE, 4 WIRE PANELBOARD, UNO 120/208V, 3 PHASE, 4 WIRE PANELBOARD, UNO 120/240V, 1 PHASE, 3 WIRE PANELBOARD, UNO TRANSFORMER	•
COVER AND PROTECT ANY MATERIAL WH	CH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANS TERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDA	IT OR ANCE E. CONDUIT 1. ALL WIRING SHALL BE INSTALLED IN LISTED M SECTIONS. RGS, WITH A 20 MIL PVC COATIN	IETALLIC CONDUIT EXCEPT AS PERMITTED IN OTHER G WILL BE USED WHEN IN CONTACT WITH EARTH. IMC MAY FACT WITH THE EARTH. EMT MAY BE USED IN INDOOR			POWER	<u>DEVICES</u> SPECIAL HEAVY DUTY RECEPTACLE — SIZE AS NOTED.	4 Project Nu
MPLOYEES OR WORK UNDER THIS DIVIS	JLATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY ON OF THE SPECIFICATIONS. AT THE COMPLETION OF THE S, ETC., AND LEAVE THE PREMISES BROOM—CLEAN.	LOCATIONS NOT IN CONTACT WITH EARTH, NO E WORK DAMAGE. PVC MAY BE USED IN OR BELOW (CONDUIT SHALL BE USED FOR INDOOR FINAL	T IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO			<u>•</u>		Project Na
PERFORM ALL EXCAVATION AND BACK FITHE SPECIFICATIONS. USE EXCAVATED DEEMED NECESSARY. PERFORM THE EXCAVATION, CUTTING, FITHE INSTALLATION OF THE EQUIPMENT OF	LLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISMATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARTHURG, REPAIRING, AND FINISHING OF THE WORK NECESSARF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF TH	SION OF 2. WHERE CONDUIT ENTERS OUTLET BOXES, FIXT COMPRESSION CONNECTORS, OR DOUBLE LOCK OR INSULATED THROAT CONNECTORS. FIRML'S EXPOSED CONDUIT PARALLEL TO THE BUILDIN T & B OR APPLETON, OR EQUAL). 3. COVER METALLIC CONDUIT IN CONTACT WITH LAPPED TO PROVIDE 20 MIL. THICKNESS. TA	URES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCREW KNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHINGS Y FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN G LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, EARTH WITH POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 PE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS			— — — — — — — — — — — — — — — — — — —	SINGLE RECEPTACLE @ +18" UNLESS NOTED DUPLEX RECEPTACLE @ +18" UNLESS NOTED DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP	. TO A
PRESENTED ON THESE DRAWINGS ARE A VERIFICATION OF ALL DIMENSIONS, LOCA REVIEW ALL ARCHITECTURAL, STRUCTUR THE REQUIREMENTS OF CONDITIONS SHO OVER ALL OTHER DRAWINGS. DISCREPA	RRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD TIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIR L, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK T WN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECED NCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS	COMPOUND TO BE WATERTIGHT. 4. SCHEDULE 40 PVC CONDUIT SHALL BE PERMI APPROVED AND CEMENTED JOINTS. PENETRA 22° SHALL BE WRAPPED RIGID GALVANIZED S'ENCE 5. FITTINGS AND CONDUIT BODIES SHALL BE STE AND 6. CONDUIT SIZES SHALL BE AS REQUIRED BY CONDUIT SYSTEMS SHALL HAVE AND CONDUIT SYSTEMS SHALL	EL. DIECAST FITTINGS ARE NOT ACCEPTABLE.			GFI AF AF TR WP	GFCI-RATED DUPLEX RECEPTACLE ARC FAULT RATED DUPLEX RECEPTACLE TAMPER RESISTANT RATED DUPLEX RECEPTACLE DUPLEX RECEPTACLE WITH WEATHERPROOF COVERPLATE 1 0 18" UNLESS NOTED	
ATTENTION OF THE ENGINEER IN WRITING NOT REPORTED, THE CONTRACTOR SHALL APPROPRIATE ADJUSTMENTS WILL BE MARESPONSIBLE TO FIELD MEASURE AND CONTRACTOR OF THE PROPRIATE AND CONTRACTOR OF THE P	CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES BID THE GREATER QUANTITY OR BETTER QUALITY, AND DE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE DNFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE LDING DIMENSIONS.	ARE INSTALLATION OF FUTURE WIRE. 8. WIRING, CONDUITS, AND OUTLETS SHALL BE CONDUITED ON THE DRAWINGS.	CONCEALED WITH THE BUILDING STRUCTURE, EXCEPT THAT JITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS HAVE ROOF FLASHING WITH CAULK TYPE COUNTER WATERTIGHT.				JUNCTION BOX DISCONNECT SWITCH — SIZE AND TYPE NOTED COMBINATION FUSED STARTER DISCONNECT SWITCH FUSE SIZE AS INDICA RY SYSTEMS	ATED, STARTER SIZE '1'
EQUIPMENT WILL BE PROPERLY COORDIN LOCATIONS SHALL BE VERIFIED WITH OT STEEL, BEAMS, OR OTHER OBSTRUCTION CAREFULLY VERIFY THE LOCATIONS OBEEN DISTURBED DURING THE INSTALLA COORDINATE THE LOCATION OF THE TRESERVICES WITH THE GENERAL CONTRACT	THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT NOT MATERIALS OF OTHER TRADES. NICHES AND CONDUITS FOR ELECTRICAL AND TELEPHONE UPONS.	ORK, OT JTILITY 1. ALL JONCTION AND OUTLET BOXES CONCEALE BOXES INSTALLED IN POURED CEMENT FLOOR: WATERTIGHT GASKETED COVERS. WHERE BOX COVERING, COVERS SHALL BE OF THE RECES: APPROPRIATE COVER PLATES. 4. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRI	D IN WALLS SHALL BE STEEL. S SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH JES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR SED TYPE TO ACCOMMODATE THE FLOOR COVERING. R, AND SECURITY SYSTEM SHALL BE PROVIDED WITH E ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE			EF 1 D	MECHANICAL EQUIP. CONNECTION, SEE SCHED. ON MECH. PLAN TELEPHONE OUTLET® +18" UNLESS NOTED DATA OUTLET ® +18" UNLESS NOTED COMBINATION TELEPHONE/DATA OUTLET ® +18" UNLESS NOTED	Issue: Plan Revie
OORDINATE HVAC AND PLUMBING EQUI ONTRACTORS. ORD DRAWINGS HE ELECTRICAL CONTRACTOR SHALL M (CLUSIVE PURPOSE OF MAINTAINING A ROM THE WORK INDICATED ON THE DR I THE COMPLETION OF THE PROJECT,	MENT CONNECTION REQUIREMENTS WITH HVAC AND PLUME INTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEV	G WIRING DEVICES (COMMERCIAL) 1. WALL SWITCHES SHALL BE SPECIFICATION GRAD GROUNDED TYPE. SPECIAL APPLICATION RECE GROUND DOWN. 3. DEVICE PLATES SHALL BE EQUAL TO SIERRA WHITE, UNLESS OTHERWISE NOTED.	ADE AC SILENT TYPE SWITCHES, 20A 120/277 VOLT. E, DUPLEX TYPE. NEMA5-20R, 20 AMPERE, 120VOLT PTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH THE SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE NS SHALL BE INSTALLED WITH A HINGED OUTLET			RT	TELEVISION OUTLET @ +60" UNLESS NOTED SMOKE DETECTOR HEAT DETECTOR DUCT SMOKE DETECTOR REMOTE TEST STATION WITH INDICATING LIGHT. MOUNT AT 48" AFF UNO.	
MATERIALS LL MATERIALS SHALL BE NEW AND OF UST CARRY THE UNDERWRITER'S LABO	QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS ATORIES APPROVAL COVERING THE PURPOSE FOR WHICH REQUIREMENTS OF THE CURRENT APPLICABLE CODES ANI	COVER/ENCLOSURE CLEARLY MARKED AND U. EQUAL TO TAYMAC SPECIFICATION GRADE. AND THEY H. SERVICE ENTRANCE SECTION THE SERVICE ENTRANCE EQUIPMENT SHALL BI CARRY THE U.L. LABEL AND SHALL CONFORM	L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, E AS INDICATED ON THE DRAWINGS. EQUIPMENT SHALL TO THE POWER COMPANY REGULATIONS. OVIDED WITH A FULLY RATED COPPER OR ALUMINUM BUS.			I	AUXILIARY SYSTEM TERMINAL CABINET L CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING CONDUIT RUN BELOW FLOOR OR GRADE HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBER	Sheet Title 1 SPE











RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

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8													•	MIDWEST ARCHITECTS 1120 NW EAGLE RIDGE BLVD GRAIN VALLEY, MO 64029 t: (816) 229-8115 Client: Ward Development 1120 NW Eagle Ridge Blvd. Grain Valley, Missouri 64029 t: (816) 229-8115
7														Consultants: Civil Engineering: Quist Engineering, Inc. 821 NE Columbus St. Lee's Summit, Missouri 64063 t: (816) 550-5675
6					PANELBOARD: H (NEW)	FED FROM: METER	R CENTER LIN	NE-SIDE LUGS: MECHANICAL	PANELBOARD: J,K,L,M,N,O (*) BUS AMPS: 225A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 480Y/277V, 3PH, 4W SECTION: 1 CKT DESCRIPTION VO	AIC RATING: 25000 FULLY F SERVES: WAREHOUSE & OF MOUNTING: SURFACE LOCATION: WAREHOUSE SI DLTAMPS/PHASE WIRE BKR P P BKR WIRE	RATED FFICE DE RR WALL WOLTAMPS/PHASE	NE-SIDE LUGS: MECHANICAL EQUIPMENT GROUND BUS SERVICE ENTRANCE RATED DESCRIPTION CKT	6	Structural Engineering: Structura Logica 18901 E. 299th Street Harrisonville, MO 64701 t: (816) 872-4883 MEP Engineering: JSC Engineers 1925 Central Street, Suite 201 Kansas City, MO 64108
5					BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 480Y/277V, 3PH, 4W SECTION: 1 CKT DESCRIPTION VOLTAMPS/P	AIC RATING: 30000 FULLY RATE SERVES: EXTERIOR MOUNTING: SURFACE LOCATION: EXT. WALL SERVICE NO. AMP P P BKR WIRE AMP NO. 12 20 2 1 20 1 20 1 20 1 20 1 20 1 1 20 1 1 1 20 1 1 1 20 1 1 1 1	E ENTRANCE VOLTAMPS/PHASE A B C SPARE SPARE SPARE SPARE PROVIS	SERVICE ENTRANCE RATED DESCRIPTION CKT NO. 2 4 6	1 SUBFEED TO 3,062 3 PNL A,B,C,D,E,F (TYP.) 5 VIA XFMR T-1,2,3,4,5,6 (TYP.) 7 PROVISIONAL SPACE 9 PROVISIONAL SPACE 11 PROVISIONAL SPACE 13 PROVISIONAL SPACE 15 PROVISIONAL SPACE 17 PROVISIONAL SPACE 19 PROVISIONAL SPACE 21 PROVISIONAL SPACE 22 PROVISIONAL SPACE 23 PROVISIONAL SPACE 25 PROVISIONAL SPACE		PROVI	NO. SIONAL SPACE 2 SIONAL SPACE 4 SIONAL SPACE 6 SIONAL SPACE 8 SIONAL SPACE 10 SIONAL SPACE 12 SIONAL SPACE 14 SIONAL SPACE 16 SIONAL SPACE 18 SIONAL SPACE 20 SIONAL SPACE 22 SIONAL SPACE 22 SIONAL SPACE 24 SIONAL SPACE 34 SI	•	t: (816) 272-5289 MO COA NO. 2012006786 / KS COA NO. E-2818 1925 CENTRAL STREET, SUITE 201 KANSAS CITY, MO 64108 phone: (816) 272-5289 email: jsmothers@jscengineers.com Revisions to technical submissions which are not made or approved by the licensee are prohibited.
•					15 PROVISIONAL SPACE 17 PROVISIONAL SPACE SUBTOTAL 210 210	1 1 1	CONN. VA DF 1.00 1.25 1.00 1.00	SIONAL SPACE 16 SIONAL SPACE 18 SUBTOTAL TOTAL DEMAND 525 VA 1 A	27 PROVISIONAL SPACE 29 PROVISIONAL SPACE SUBTOTAL 3,062 TOTAL PHASE A - VA 3,062 LOAD AMPS 11 COOL TOTAL PHASE B - VA 4,927 HEATI AMPS 18 LIGHT	NG	CONN. VA DF 1.00 1.25 1.00 1.25 1.25 1.25	SIONAL SPACE 28 SIONAL SPACE 30 SUBTOTAL TOTAL DEMAND 11,381 VA 14 A	•	JUSTIN R. SMOTHERS NUMBER PE-2012003568 OI-17-2023
•									PANELBOARD: A,B,C,D,E,F (7	「YP) (NEW) FED FROM: AIC RATING: 10000 FULLY R		NE-SIDE LUGS: MECHANICAL EQUIPMENT GROUND BUS		Project Number: 22-215 Project Type: NEW CONSTRUCTION Project Name and Address:
3									NO. A 1 LTG - WAREHOUSE 1,608 3 RCPT - OFFICE 5 RCPT - ROOF SERVICE 7 *PWR - UNIT HTR 1,300 9 *PWR - CU-1 11 13 SPARE	1,260	DE RR WALL VOLTAMPS/PHASE	- WATER HEATER 10 OVERHEAD DOOR 12 E 14	3	B&T CENTER, 2701 NE McBaine Driv ee's Summit, Missouri 6
2									TOTAL PHASE A - VA 3,986 LOAD AMPS 33 COOLI TOTAL PHASE B - VA 4,927 HEATII AMPS 41 LIGHT TOTAL PHASE C - VA 3,327 RECEI AMPS 28 MOTOI TOTAL PNLBD - VA 12,240 SUPP	NG 4,898 1.00 NG 1,300 0 ING 1,762 1.25 PTACLES 1,980 1.0/.5 RS 800 1.00 HEAT 1,500 1,00 REFRIG SIGN/DISP KITCHEN EXISTING LRG MOTOR SHOWWNDV	PROVIS PR	18		Issue: Date: Plan Review 09.30.22 Plan Review Revisions 11.17.22 Plan Review Revisions 3 01.02.23 Owner Comments 4 01.17.23
1									AMPS 34 MISC E PANELBOARD NOTES * = HACR-TYPE CIRCUIT BREAKER	EQUIP 1.00 LTG TRACK	1.00	32 A	1	Sheet Title: ELECTRICAL SCHEDULES
•	<u>H</u>	•	G	•	F •	E	•	D	SCALE : NO SCALE C	• B		1	•	E-302