SPECIAL CONDITIONS, REQUIREMENTS AND NOTES TO OWNER. DEVELOPER AND CONTRACTOR:

1. CONTRACTOR, BUILDER AND SUBCONTRACTORS INVOLVED IN ANY FORM OF CONSTRUCTION USING THESE CONTRACT DOCUMENTS SHALL BE INFORMED OF THE FOLLOWING RESPONSIBILITIES, PERFORMANCE CRITERIA, LIMITATIONS AND RISKS ASSOCIATED WITH CONSTRUCTION. IF THE OWNER, DEVELOPER OR CONTRACTOR IS NOT ABLE TO ACCEPT THE RESPONSIBILITIES OR PERFORMANCE CRITERIA AND LIMITATIONS. NOTIFY THE ENGINEER OF RECORD OR ARCHITECT PRIOR TO START OF CONSTRUCTION. IT SHALL BE EXPRESSLY UNDERSTOOD THAT THE ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE LACK OF PERFORMANCE OF MATERIALS, SYSTEMS OR DESIGNS NOT BEING LIMITED TO ITEMS OUTLINED BELOW. CONTRACTORS AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL CONDITIONS AND RESPONSIBILITIES STATED IN THESE NOTES, PLANS, SECTIONS / DETAILS, AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION OF ANY CONDITIONS OR RESPONSIBILITIES WHICH ARE NOT ACCEPTABLE OR NOT UNDERSTOOD.

2. THE CONTRACTOR SHALL USE ALL STANDARD MEANS TO ENSURE PROPER PROTECTION AND CURING OF ALL CEMENTITIOUS MATERIALS TO REDUCE CRACKING OR SURFACE SPALLING. PLAIN CONCRETE, REINFORCED CONCRETE, OR CONCRETE MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE, CREEP AND RESTRAINING EFFECTS. CRACKS ARE NORMALLY COSMETIC AND THE SYSTEM MAINTAINS SERVICEABILITY AND STRENGTH REQUIREMENTS. JOINTS MAY BE INDICATED TO CONTROL CRACKING, BUT ARE NOT MEANT TO ELIMINATE ALL CRACKING, AS THIS IS NOT PRACTICAL. EXTREME CRACKING MAY BE CAUSED BY POOR MATERIAL OR PLACEMENT. CONTACT THE ENGINEER OF RECORD FOR POSSIBLE REPAIR REQUIREMENTS.

3. FOUNDATION SETTLEMENT MAY CAUSE DISTORTION AND DISTRESS TO THE SUPPORTED STRUCTURE AS WELL AS ADJACENT UTILITIES, SLABS, FOUNDATIONS, ETC. ATTENTION TO PROPER SOIL PREPARATION AND GRADING, AS WELL AS PROPER DRAINAGE AWAY FROM STRUCTURE IS ESSENTIAL IN REDUCING EXPECTED SETTLEMENT.

4. VARIATION IN DIMENSIONS MAY OCCUR AS A RESULT OF THERMAL INFLUENCES, NATURAL DEFLECTIONS AND/OR CAMBERS OF MEMBERS. AS A RESULT, QUANTITIES MAY VARY AND ARCHITECTURAL FINISHES MAY BE AT RISK OF COSMETIC VARIATION OR DAMAGE.

5. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION UNLESS SUCH VARIATIONS ARE ISSUED BY THE ENGINEER. ADDITIONS AND ALTERATIONS MAY BE MADE BY THE ENGINEER BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.

6. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR, SUBCONTRACTOR AND/OR WORKPERSONS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS. IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL WORK EXPLICITLY SHOWN.

7. CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS CANOPIES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

8. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE, SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

9. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH OTHER DISCIPLINES DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION OR VARIATION NOT REPORTED BEFORE THE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

13. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

14. TYPICAL GENERAL STRUCTURAL NOTES AND DETAILS SHALL APPLY. THOUGH NOT NECESSARILY AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN. CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

15. ALL OPENINGS ARE NOT SHOWN ON THESE DRAWINGS. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPENINGS MAY REQUIRE ADDITIONAL REINFORCING OR SUPPORTS AS SHOWN ON TYPICAL DETAILS. IF TYPICAL DETAILS FOR ALL CONDITIONS ARE NOT INCLUDED HEREIN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST IN WRITING ADDITIONAL INFORMATION.

16. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING OFFICIALS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SPECIAL INSPECTION REQUIREMENTS STATED HEREIN ARE PARTIAL. COMPLETE INSPECTION REQUIREMENTS SHALL BE AS DIRECTED BY THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

17. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW A MINIMUM OF 10 WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE ENGINEER'S RECORDS.

#### ELECTRONIC FILES:

1. ELECTRONIC FILES CREATED BY METTEMEYER ENGINEERING, LLC. WILL NOT BE MADE AVAILABLE FOR USE BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR BUILDERS INVOLVED IN ANY FORM OF CONSTRUCTION. BIDS ON THE PROJECT SHALL BE MADE ACCORDINGLY.

#### CONFLICTING REQUIREMENTS:

1. ANY AND ALL CONFLICTS WITHIN THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS AND OTHER DOCUMENTS); OR BETWEEN THE DOCUMENTS AND EXISTING PROJECT CONDITIONS SHALL BE QUANTIFIED BY THE CONTRACTOR(S); AND ALL ASSOCIATED COSTS MUST BE INCLUDED IN THE CONTRACTOR(S) BASE BID; OR ANY AND/OR ALL COSTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S). IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO BRING EACH CONFLICT TO THE ATTENTION OF THE ENGINEER OF RECORD. ALL CONFLICTS SHALL BE IDENTIFIED IN WRITTEN FORM AND SUBMITTED THROUGH THE "REQUEST FOR INFORMATION" (RFI) PROCESS DURING BIDDING. THE ENGINEER OF RECORD SHALL REVIEW ALL IDENTIFIED CONFLICTS AND RENDER TO THE CONTRACTOR(S) THEIR DECISION.

2. IF THE CONTRACTOR(S) DO NOT SUBMIT AN RFI AND/OR DO NOT RECEIVE A DIRECTIVE OR CLARIFICATION IN WRITING FROM THE ENGINEER OF RECORD THROUGH NO FAULT OF THEIR OWN. CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE MORE STRINGENT STANDARD, OR HIGHER LEVEL OF QUALITY AT NO ADDITIONAL COSTS TO THE OWNER.

3. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISHES A DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT.

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITEC

DEFERRED SUBMITTALS:

1. IN ACCORDANCE WITH THE IBC SECTION 106.3.4.2, SPECIALTY ITEMS, PRI AND DESIGN/ BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUF INSTALLER.

- 2. SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:
  - A. WOOD ROOF TRUSSES B. WALL PANELS BUILT W/ WOOD STUDS (ONLY IF WALLS ARE BUIL) C. SIMPSON STRONG-TIE, OR EQUAL, HARDWARE (INCLUDING ALL D. HAND/GUARD RAILS
- E. SIGNS
- 3. SUBMITTALS SHALL INCLUDE: A. CALCULATIONS PREPARED AND SEALED BY AN APPROPRIATELY (THE "SPECIALTY ENGINEER").

B. DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER MAGNITUDES AND LOCATIONS - SEPARATED INTO DEAD, LIVE, WIND COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE.

C. ERECTION OR DESIGN DRAWINGS BEARING THE SPECIALTY ENG ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT (1) REPRODUCIBLE COPY, ONE (1) WET SEALED COPY FOR THE RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUI SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITE A. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.

- B. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCU
- BUILDING CODE REQUIREMENTS.
- C. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSIST DESIGN.
- D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOS

6. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOW STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL. ONLY DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMO MADE BY THE ENGINEER OF RECORD. DEFERRED SUBMITTAL ITEMS SHAL DESIGN AND THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL HAV DOCUMENTS.

#### HAND/GUARD RAILS:

1. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO RESIST A DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUP

2. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGL POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND I SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE BUILDING. THIS LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WI PRECEDING PARAGRAPH.

3. INTERMEDIATE RAILS (ALL THOSE EXCEPT THE HANDRAIL), BALUSTERS DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 SQUARE FOOT, INCLUDING OPENINGS AND SPACE BETWEEN RAILS. REAC NOT REQUIRED TO BE SUPERIMPOSED WITH THOSE ABOVE.

4. WHERE HANDRAILS AND GUARDS ARE DESIGNED IN ACCORDANCE WITH ALLOWABLE STRESS DESIGN (WORKING STRESS DESIGN) EXCLUSIVELY FOR THE ALLOWABLE STRESS FOR THE MEMBERS AND THEIR ATTACHMENTS A BY ONE-THIRD.

5. PROVIDE BLOCKING IN WALLS AT ALL HANDRAIL LOCATIONS.

REINFORCING STEEL (FOR CONCRETE AND MASONRY): 1. REINFORCED CONCRETE IS DESIGNED IN ACCORDANCE WITH THE "BUIL

REINFORCED CONCRETE" (ACI 318) BY THE AMERICAN CONCRETE INSTITUT

2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CON DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND T PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315 INSTITUTE. THE CODE REFERENCED EDITIONS OF CONCRETE REINFORCIN "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS" MAY AL

3. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL REINFORCING BARS UNLE OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706 GRAD STEEL.

4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT TO CENTER OF STEEL, MINIMUM COVER FOR NON-PRESTRESSED CONCRET FOLLOWS, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS:

#### EXPOSURE CONDITION CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

EXPOSED TO EARTH OR WEATHER:

#5 AND SMALLER #6 AND LARGER

### SLABS ON GRADE:

5. LAP SPLICES OF REINFORCING STEEL IN ALL CONCRETE SHALL BE ACCO SPLICE), UNLESS NOTED OTHERWISE. STAGGER SPLICES A MINIMUM OF O WELDING OF REINFORCING BARS IS ALLOWED. CODE REFERENCED ACI C PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BAR INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SF SPLICE TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SU GRADE BEAMS, ETC. UNLESS NOTED OTHERWISE.

6. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCOF UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHO CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS A REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT AND ADEQUATE SHEAR TRANSFER.

7. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE STRAIGHT BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTEI

8. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS STANDARD 19-2, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PL

9. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON C DETAILED AND PLACED PER CONCRETE REINFORCING STEEL INSTITUTE ( HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECUR BEFORE PLACING CONCRETE.

10. AT CORNERS OF FOOTINGS SUPPLY CORNER BARS 4'-0" LONG MINIMUM DIAMETERS).

11. ALL SLABS AND STAIRS NOT SHOWN OTHERWISE SHALL BE 8" THICK AN 6" O.C. EACH WAY CENTERED. ALL EXTERIOR PORCHES AND STOOPS NOT CONSTRUCTED IN ANY STANDARD MANNER, SOLID OR HOLLOW, BUT MUST 12" O.C. MINIMUM EACH WAY. PORCHES SHALL BE DOWELED TO ADJACENT BARS AT 12" O.C. HOOKED OR EMBEDDED 30 DIAMETERS INTO BOTH MEMBE FOOT FOR DRAINAGE UNLESS NOTED OTHERWISE.

12. ACCESSORIES SHALL BE AS SPECIFIED IN CODE REFERENCED EDITION MAXIMUM ACCESSORY SPACING SHALL BE 4'-0" O.C.

 AT ALL HOLES IN SLABS, ADD 2-#5 BARS (LENGTH IS OPENING DIMENSION) EACH OF FOUR SIDES AND ADD 2-#5x5'-0" DIAGONALLY AT EACH OF THE FO WALL OPENINGS REINFORCE SAME, BUT 1-#5 BAR INSTEAD OF 2-#5 BARS, MECHANICAL SPLICE COUPLERS, FLANGE COUPLERS, THREADED COUPLE APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENG

8. FV = FIELD VERIFY

ITEMS, PRE-ENGINEERED COMPONENTS, AL BY THE ENGINEER OF RECORD AND THE	CONCRETE: 1. MINIMUM 28 DAY STRENGTH (fc) AS FOLLOWS: USE TYPE STRENGTH ACI EXPOSURE CLASSIFICATIONS	CONCRETE TESTING SERVICES: 1. TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
DEFINED AS THOSE SPECIFIED IN HE MANUFACTURER, SUPPLIER, OR	FOOTINGS         4000 PSI         F0         S0         W0         C0           INTERIOR SLAB ON GROUND         4000 PSI         F0         S0         W0         C0           EXTERIOR SLAB ON GROUND         5000 PSI         F1         S1         W1         C2	A. FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH EXCEEDING 5 CUBIC YARDS (4 CUBIC METERS), BUT LESS THAN 25 CUBIC YARDS (19 ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS (38 CUBIC METERS) OR FRACTION
ARE BUILT OFF SITE)	2. A MIX DESIGN SHALL BE SUBMITTED FOR REVIEW FOR EACH MIX TYPE AND SHALL INCLUDE ALL MATERIALS TO BE USED, SIEVE ANALYSIS OF AGGREGATE, AND DATA FOR ALL PRODUCTS.	FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGT CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SE FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
DING ALL TRUSS HANGERS)	<ol> <li>AIR ENTRAINMENT AS FOLLOWS:         <ul> <li>A. EXTERIOR CONCRETE SHALL BE PER ASTM C260, 6% +- 1%</li> <li>B. INTERIOR CONCRETE SHALL BE LIMITED TO 3% IN ACCORDANCE WITH ACI 302.1R</li> </ul> </li> <li>FLY ASH MAY BE USED AT CONTRACTOR'S OPTION. IF USED IT SHALL BE LIMITED TO 20% AND MEET ASTM</li> </ol>	B. SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE S THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIC CONCRETE CONSISTENCY APPEARS TO CHANGE.
PRIATELY REGISTERED ENGINEER	<ul><li>6618, CLASS C.</li><li>5. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER</li></ul>	C. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRET VOLUMETRIC METHOD, FOR STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE
ENGINEER, SHOWING LOAD LIVE, WIND AND/OR SEISMIC UCTURE.	ACCORDING TO ACI 301. 6. THE CONCRETE SUPPLIER SHALL STATE THE SLUMP AND ADDITIVES USED IN THE MIX DESIGN.	D. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERA FAHRENHEIT (4.4 DEGREES CELSIUS) AND BELOW AND WHEN 80 DEGREES FAHRENH
IALTY ENGINEER'S SEAL AND THE	<ul> <li>A. MAXIMUM SLUMP FOR EXTERIOR SLABS SHALL BE 4" +/- 1".</li> <li>B. MAXIMUM SLUMP FOR ALL OTHER CONCRETE SHALL BE 3" +/- 1".</li> <li>C. WATER SHALL BE CLEAN AND POTABLE. IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494,</li> </ul>	CELSIUS) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE. E. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M; CAST AND LABORATORY CUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. FIELD-CURED SPE
FOR THE STRUCTURAL ENGINEER OF OR THE BUILDING DEPARTMENT. ER REVIEW COMMENTS ARE NOT	TYPE A OR F, SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX. THE ONLY WATER WHICH MAY BE ADDED ONSITE IS MIX WATER THAT HAS BEEN LEFT OUT AT THE BATCH PLANT. D. CONCRETE DELIVERY TICKET SHALL CLEARLY INDICATE THE AMOUNT OF MIX WATER WHICH HAS BEEN LEFT OUT. MAXIMUM SLUMP SHALL BE 8" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4"	REQUIRED TO VERIFY ADEQUACY OF CURING AND PROTECTION OF CONCRETE OR T REMOVAL OF SHORING AND RESHORING IN MULTISTORY CONSTRUCTION. F. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; TEST TWO LABORATORY-CURED SP
'LY LIMITED TO THE FOLLOWING: EALED.	BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE. SEE DIVISION 3 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.	TWO AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPR TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE II CONCRETE SAMPLING BEYOND THE DAYS ABOVE SHALL BE DIRECTED BY THE CONTI
ACT DOCUMENTS AND INTERNATIONAL	7. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE II CEMENT. CALCIUM CHLORIDE IS NOT ALLOWED.	CONTRACTOR'S COST.
E CONSISTENT WITH THE PRIMARY	8. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING AGENCY.	POST-INSTALLED ANCHORS: 1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CON DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIO
HE IMPOSED LOADS. AD ALLOWANCE PROVIDED THE AL. ONLY AT THE OWNER'S WRITTEN	9. CONCRETE MIXING, PLACEMENT AND QUALITY SHALL BE PER IBC SECTION 1904, ASTM C 94, ASTM C 685, AND ACI 302. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GROUND NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR UPLIFT ANCHORS, CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.	DOCUMENTS. SPECIAL INSPECTIONS ARE REQUIRED PER THE PROVISIONS SET FOR REFERENCED IBC CODE REPORTS. ANCHORS ARE TO BE INSTALLED BY EXPERIENCE CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRO INSTALLATION TRAINING ON INITIAL ANCHORS. SUBSTITUTION REQUESTS, FOR PROD THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE
CCOMMODATE THE SPECIALTY ITEM(S) BE MS SHALL NOT BE INSTALLED UNTIL THEIR ICIAL HAVE APPROVED SUBMITTAL	10. ALL ITEMS THAT ARE CAST INTO CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, EMBEDS, INSERTS, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE. SUPPORT ALL REINFORCING WITH CHAIRS AS REQUIRED. FLOATING IN OF THESE ITEMS IS NOT PERMITTED. REINFORCING, DOWELS, EMBEDS, AND INSERTS SHALL BE CLEAN OF RUST, OILS, AND DIRT	RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGIS PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUI PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE V OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OF REQUIRED BY THE BUILDING CODE.
RESIST A LOAD OF 50 PLF APPLIED IN ANY	PRIOR TO CASTING. 11. CONCRETE SLAB ON GROUND CONTROL JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR	2. CONCRETE ANCHORS
THE SUPPORTS TO THE STRUCTURE.	TYPICAL DETAILS. WHERE CONTROL JOINTS ARE NOT SHOWN ON PLANS, ALL CONCRETE SLABS ON GROUND SHALL BE BOUND BY KEYED, DOWELED OR SAWCUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 144 SQUARE FEET. RATIO OF BOUNDARY DIMENSIONS SHALL NOT EXCEED 1.5:1. LOCATE CONTROL JOINTS OFF OF CORNERS OF DIAMOND ISOLATION LEAVE OUTS AND RE-ENTRANT CORNERS.	A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHAL TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 MECHANICAL ANCHORS INCLUDE:
OP, AND HAVE ATTACHMENT DEVICES AND OPRIATE STRUCTURAL ELEMENTS OF THE ENTLY WITH THE LOADS SPECIFIED IN THE	KEYED OR DOWELED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAWCUT. SAWCUT JOINTS SHALL BE CUT IN SLABS ON GROUND AS SOON AS POSSIBLE WITHIN 24 HOURS AFTER SLAB FINISHING AS MAY BE SAFELY DONE WITHOUT DISLODGING	SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) HILTI KWIK HUS-EZ "KH-EZ" (ICC-ES ESR-3027)
USTERS AND PANEL FILLERS SHALL BE DAD OF 50 POUNDS ON AN AREA EQUAL TO 1	AGGREGATE. 12. PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE	B. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL F TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROV ANCHORS INCLUDE:
LS. REACTIONS DUE TO THIS LOADING ARE	EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE OUTSIDE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.	SIMPSON STRONG-TIE "GT" (ICC-ES ESR-2508) HILTI HIT-HY 200-A (ICC-ES ESR 3187)
SIVELY FOR THE LOADS SPECIFIED ABOVE, IMENTS ARE PERMITTED TO BE INCREASED	13. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO HOT OR COLD WEATHER IN ACCORDANCE WITH ACI 305 AND 306 AND IBC SECTION 1905. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES, FOLLOW ALL MANUFACTURERS RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEERS PRIOR APPROVAL.	STRUCTURAL FIELD OBSERVATION SCHEDULING: <u>NOTIFY THE STRUCTURAL ENGINEER OF RECORD FOR OBSERVATION OF THE FOLLO</u> NOTE: GENERAL CONTRACTOR SHOULD ALLOW ADEQUATE TIME FOR SCHEDULING O VISIT BY THE STRUCTURAL ENGINEER, TYPICALLY THREE TO FOUR DAYS.
NRY):	FOUNDATIONS: 1. GEOTECHNICAL REPORT: NONE PROVIDED	THE ENGINEER OF RECORD'S PERIODIC FIELD OBSERVATIONS ARE NOT TO BE CONS INSPECTIONS AND ARE ONLY OBSERVATIONS OF WORK TO ASSURE GENERAL CONFI
THE "BUILDING CODE REQUIREMENTS FOR E INSTITUTE.	2. THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO PROVIDE SOIL TESTING AND REVIEW DURING CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE THE FOUNDATION	CONTRACT DOCUMENTS. 1. OBSERVE FOUNDATION REINFORCING PRIOR TO CONCRETE POUR AT FIRST BUILD
IALL CONFORM TO THE "ACI STANDARD: 15) AND THE "MANUAL OF ENGINEERING AND 3" (ACI 315R) BY THE AMERICAN CONCRETE	REQUIREMENTS OF THE CONTRACT DOCUMENTS. IF CONDITIONS VARY FROM THAT INDICATED HEREIN, THEN THE GEOTECHNICAL ENGINEER SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.	BUILDING THAT IS NOT DEEMED TYPICAL.2. OBSERVE WOOD FRAMING AFTER 2ND FLOOR FRAMING IS COMPLETE, BUT PRIOR
INFORCING STEEL INSTITUTE'S S" MAY ALSO BE USED.	SLAB ON GRADE:	FLOOR FRAMING AT FIRST BUILDING IN PHASE AND FOR ANY BUILDING THAT IS NOT I 3. OBSERVE WOOD FRAMING AFTER COMPLETION OF WOOD FRAMING AND SHEAR W
S OF ASTM A615. REINFORCING SHALL BE BARS UNLESS NOTED OTHERWISE ON PLANS 1706 GRADE 60 LOW ALLOY WELDABLE	<ol> <li>TYPICAL CONCRETE SLAB ON GROUND SHALL BE 4" THICK WITH 6x6 - W2.1x2.1 WWF OVER A 10 MIL VAPOR RETARDER. PROVIDE (2) #4x4'-0" BARS AT RE-ENTRANT CORNERS.</li> <li>SLAB ON GROUND SUPPORT: MINIMUM 4" LAYER OF GRANULAR BASE CONSISTING OF AN OPEN GRADED CRUSHED STONE (ASTM C33, #57 STONE OR SIMILAR), PER GEOTECHNICAL REPORT.</li> </ol>	PRIOR TO INSULATION AND DRYWALL INSTALLATION, OF FIRST BUILDING IN PHASE AI IS NOT DEEMED TYPICAL.
TEEL NOT NOTED AS "CLEAR" OR "CLR" ARE OCONCRETE REINFORCING SHALL BE AS	3. CONCRETE SLABS ON GROUND SHALL BE SUPPORTED ON SELECT FILL MATERIAL AS NOTED ABOVE. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE. CARE SHALL	CONNECTION TYPE:NAILING:1. JOIST TO SILL OR GIRDER, TOENAIL
MINIMUM COVER TOLERANCES (+/-)	BE TAKEN IN PLACING SLABS ON GRADE SO AS NOT TO DISTURB FILL MATERIAL OR REINFORCING. THE FILL MATERIAL SHALL BE COMPACTED TO NO LESS THAN 95% COMPACTION AT MOISTURE CONTENT RANGE OF 3% BELOW TO 3% ABOVE OPTIMUM MOISTURE CONTENT BEFORE PLACEMENT OF SLABS. REFER TO	2. BRIDGING TO JOIST2 - 8d TOENAIL E.3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST2 - 8d FACE NAIL4. WIDER THAN 1"X6" (25MMx152MM) SUBFLOOR TO JOIST3 - 8d FACE NAIL
3" 3/8" 1 1/2" 3/8"	GEOTECHNICAL REPORT FOR ANY ADDITIONAL REQUIREMENTS. <u>SHALLOW SPREAD FOOTINGS:</u>	5. 2" (52MM) SUBFLOOR TO GIRDER2 - 16d BLIND AN6. BOTTOM PLATE TO JOIST OR BLOCKING16d @ 16" O.C. T'7. BOTTOM PLATE TO JOIST OR BLOCKING, AT SHEAR WALLS3 - 16d @ 16" O.C
1 1/2 3/8 2" 3/8" 1 1/2" 1/4"	<ol> <li>FROST DEPTH IS 36" BELOW GRADE.</li> <li>ALLOWABLE FOOTING BEARING CAPACITY IS 2000 PSF</li> </ol>	8. TOP PLATE TO STUD.         2 - 16d END NAIL           9. STUD TO BOTTOM PLATE         4 - 8d TOENAIL O           10. DOUBLE STUDS         16d @ 24" O.C. F/
L BE ACCORDING TO ACI 318 (CLASS B IUM OF ONE LAP IN LENGTH. NO TACK	3. ALL FOOTINGS SHALL EXTEND TO DEPTH NOTED ABOVE UNLESS NOTED OTHERWISE ON PLANS OR DETAIL. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS, AND LOWEST ADJACENT COMPACTED	11. DOUBLE TOP PLATES16d @ 16" O.C. T12. DOUBLE TOP PLATES, LAP SPLICE8 - 16d13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE3 - 8d TOENAIL14. DUA JOINT TO TOP PLATE10 - 01 - 01 - 01 - 01 - 01 - 01 - 01 -
ED ACI CODE AND DETAIL MANUAL APPLY. NTAL BARS AT ALL CORNERS AND ALL BE SPLICED AT OR NEAR FLOOR LINES.	SUBGRADE (PAD GRADE BEFORE LANDSCAPING) OR NATURAL GRADE WITHIN 5 FEET OF BUILDING FOR PERIMETER FOOTINGS. GRADE IS DEFINED AS TOP OF EXTERIOR PAVING OR CONCRETE WHERE EXTERIOR PAVING OR CONCRETE IS PERMANENTLY LOCATED DIRECTLY ADJACENT TO BUILDING AND EXTENDS AT	14. RIM JOIST TO TOP PLATE8d @ 6" O.C. TOE15. TOP PLATES, LAPS AND INTERSECTIONS2 - 16d FACE NAII16. CONTINUOUS HEADER, TWO PIECES16d @ 16" O.C. AI17. CEILING JOISTS TO PLATE3 - 8d TOENAIL
AT THE SUPPORT IN SPANDRELS, BEAMS,	LEAST 5 FEET FROM BUILDING. 4. FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE FROM LOOSE DEBRIS, STANDING WATER, OR	18. CONTINOUS HEADER TO STUD4 - 8d TOENAIL19. CEILING JOISTS, LAP OVER PARTITIONS3 - 16d MIN. FACE
L BE INCORPORATED IN THE STRUCTURE DITIONAL CONSTRUCTION JOINTS REQUIRED D ON SHOP DRAWINGS. WHEN	UNCOMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT. 5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A	20. CEILING JOISTS TO PARALLEL RAFTERS3 - 16d MIN. FACE21. RAFTER TO PLATE3 - 8d TOENAIL22. 1" (25MM) BRACE TO EACH STUD AND PLATE2 - 8d FACE NAIL23. 1"x8" SHEATHING OR LESS TO EACH BEARING3 - 8d FACE NAIL
AWINGS ARE REQUIRED, THE DINT AND A KEY SHALL BE PROVIDED FOR	<ul> <li>6. SITE PREPARATION AND GRADING REQUIREMENTS OF THE GEOTECHNICAL REPORT AND ANY ADDENDA</li> </ul>	22. T X0 SHEATTING OR LESS TO EACH BEARING         3 - 6d T ACE NAIL           24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING
STRAIGHTENED AND RE-BENT. FIELD LLY NOTED OTHERWISE.	SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR	27. COLLAR TIE TO RAFTER3 - 10d FACE NAI28. JACK RAFTER TO HIP3 - 10d TOENAIL29. ROOF RAFTER TO 2-BY RIDGE BEAM2 - 16d TOENAIL
IECTIONS SHALL CONFORM WITH IBC VN ON PLANS OR DETAILS.	GRADING SHALL BE REPORTED TO THE ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.	30. JOIST TO BAND JOIST
IUM ON CENTERS. ALL BARS SHALL BE STITUTE (CRSI) SPECIFICATIONS AND N. SECURELY TIE ALL BARS IN LOCATION		BOTTOM STAGG AND 2 - 20d FACE EACH SPLICE)
G MINIMUM (2'-0" EACH LEG, OR 30 BAR		LOAD BEARING STUD WALLS ARE DESIGNED
" THICK AND REINFORCED WITH #4 BARS AT OPS NOT OTHERWISE DETAILED MAY BE BUT MUST BE REINFORCED WITH #4 BARS AT ADJACENT WALLS OR GRADE BEAMS WITH #4	ABBREVIATIONS:	BASED ON LATERAL SUPPORT PROVIDED BY OSB WALL SHEATHING. REFER TO GENERAL NOTES ON S0.0 AND DETAILS/ELEVATIONS ON S0.2 FOR EXTERIOR WALL AND INTERIOR LOAD BEARING WALL REQUIREMENTS.
OTH MEMBERS. SLOPE PORCHES 1/8" PER	1. B/ = BOTTOM OF9. G.C. = GENERAL CONTRACTOR2. BRG = BEARING10. H.A.S. = HEADED ANCHOR STUD	
D EDITION OF CRSI DESIGN HANDBOOK.	3. DBE = DECK BEARING ELEVATION 11. JBE = JOIST BEARING ELEVATION	
DIMENSION PLUS 3'-0" LONG EACH WAY) AT DF THE FOUR CORNERS OF THE HOLE. IN 8" #5 BARS, RESPECTIVELY.	<ul> <li>4. EL OR ELEV = ELEVATION</li> <li>5. EOR = ENGINEER OF RECORD</li> <li>12. MEP = MECHANICAL, ELECTRICAL, PLUMBING</li> <li>13. MFR = MANUFACTURER</li> </ul>	
E STRENGTH OF THE BAR.	6. fc = CONCRETE COMPRESSIVE STRENGTH 14. RTU = ROOF TOP UNIT	
	7. FTG = FOOTING15. T/ = TOP OF8. EV = FIELD VERIEY16. U.N.O. = UNI ESS NOTED OTHERWISE	

16. U.N.O. = UNLESS NOTED OTHERWISE

IG TO ASTM C 172 SHALL BE	STRUCTURAL LUMBER: DIMENSIONAL LUMBER / WOOD FRAMING 1. LUMBER SHALL BE GOOD, SOUND, WE	LL SEASONED, S4S, WITH A MOISTU	JRE CONTENT OF 15% MAXIMUM AND	
CH CONCRETE MIX 19 CUBIC METERS), PLUS	THE FOLLOWING ALLOWABLE STRESSES STUDS, PLATES, BLOCKING, & BEAMS:	TREATED SILL PLATES:	LVL BEAMS:	
ON THEREOF. WHEN GTH TESTS FOR EACH SELECTED BATCHES OR	#2 DOUGLAS FIR LARCH OR BETTER A. Fb = 900 PSI B. Fc = 1,350 PSI C. Fv = 180 PSI D. E = 1,600,000 PSI	#1 S.Y.P. A. Fb = 1,400 PSI B. Fc = 1,550 PSI C. Fv = 175 PSI D. E = 1,600,000 PSI	A. Fb = 2,900 PSI B. Fc = 2,500 PSI C. Fv = 290 PSI D. E = 2,000,000 PSI	
E SAMPLE, BUT NOT LESS ITIONAL TESTS WHEN	A. PLATES IN CONTACT WITH CON	NCRETE SHALL BE TREATED #1 SOL	JTHERN YELLOW PINE (S.Y.P.).	
RETE; ASTM C 173, DR EACH COMPOSITE ETE MIX.	STRUCTURAL ENGINEER OF REC	IE AN ALTERNATE SPECIES ONLY W ORD. SUCH THAT NO PIECES WITH LARG		ALL ROLLO
RATURE IS 40 DEGREES NHEIT (27 DEGREES	DEFECTS ARE USED. 2. FRAMING, ROUGH CARPENTRY, AND M	IISCELLANEOUS CARPENTRY WORK	K SHALL BE GOVERNED BY THE	
URE ONE SET OF FOUR SPECIMENS BELOW MAY BE	INTERNATIONAL BUILDING CODE REQUIR CONNECTION, AND GENERAL REQUIREM THIS CONTRACT THAT THE GENERAL CO TO ALL PERTINENT PARTIES.	IENTS OF CHAPTER 23 OF THE COD	E. IT SHALL BE A REQUIREMENT OF	E 22 A HANSKE AND
R TO VERIFY STRENGTH FOR	3. THE GENERAL CONTRACTOR AND FRA CORRECT NAIL SIZE AS SPECIFIED ON TH DRAWINGS. COMMON NAIL SIZES ARE AS	HE CONTRACT DOCUMENTS AND/O	R ON APPROVED TRUSS SHOP	EARL V. ROLLISON ENGINEER LICENSE NO. 10822
IPRESSIVE STRENGTH FROM E INDICATED. ANY NTRACTOR AT THE	DESIGNATION         DIAMETER           8D         0.131"           10D         0.148"           12D         0.148"	R <u>LENGTH</u> 3" 3" 3 1/4"		ENGINEERING CORPORATION MISSOURI LICENSE NO. E-2055
	16D 0.162" 4. THE GENERAL CONTRACTOR AND FRA	3 1/2" MING SUB-CONTRACTOR ARE RES		<b>U R E</b> Auburn Rd. 3-339-4536 ollard.com
CONSTRUCTION DRTH IN BELOW ICED INSTALLERS OR RODUCT	APPROPRIATE NAIL SIZE WHEN USING NA MAY RESULT IN THE REMOVAL OF ALL CO CONTRACTOR'S EXPENSE.	ONSTRUCTION TO DATE AND RECO	NSTRUCTING AT FRAMING	<b>FECTURE</b> 266 S. Mt. Auburn Rd. Cape Girardeau, MO ph: 573-339-4536 info@dillepollard.com
RODUCTS OTHER THE ENGINEER OF EGISTERED	5. THE USE OF NAIL GUNS FOR JOIST HAN 6. DRIVING NAILS INTO EXISTING HOLES IN			<b>EPDILA</b> <b>I T E C T</b> 2 266 S. Mt. A Cape Girar ph: 573- info@dillepo
SUBSTITUTED E VALUES (MINIMUM) /OR STANDARD(S) AS	DIAMETER OF THE NEW NAIL. 7. HOLES DRILLED IN EXTERIOR WALLS, S AND/OR PLUMBING SHALL BE CENTERED			■ Ste. 2 Ste. 2 Com
		XIMUM HOLE DIAMETER		A R (vay PP, vay PP, vay ollard.
HALL HAVE BEEN 193. PRE-APPROVED	2x4 1" 2x6 1"			A R Poplar Bluff, MO ah: 573-778-003: www.dillepollard.
	8. HOLES DRILLED IN NON-LOAD BEARING CENTERED. NO OTHER HOLES OR NOTCH			4061 Hi Poplar I ph: 573 www.dl
L HAVE BEEN OVED ADHESIVE	STUD OR PLATE SIZE         MA           2x4         2"           2x6         3 1	AXIMUM HOLE DIAMETER 1/4"		
	9. HOLES OR NOTCHES IN JOISTS AND RA ENGINEER OF RECORD. CONTRACTOR SI REVIEW.			
	10. MULTIPLE LAMINATIONS (TRIPLE 2x M/ NAILS EACH FACE FOR THREE PLY AND C REQUIRED.			
<u>LLOWING ITEMS:</u> G OF A SITE OBSERVATION	11. TYPICAL MINIMUM NAILING REQUIREN DOCUMENTS.	IENTS ARE PER THE NAILING SCHE	DULE ON THE CONTRACT	
NSIDERED SPECIAL NFORMANCE WITH THE	12. SPECIFIED CONNECTORS ARE SIMPS THE MANUFACTURER'S RECOMMENDATION 13. ALL BEAMS BEARING PERPENDICULA	ONS.		
ILDING IN PHASE AND FOR ANY	THE FULL WIDTH OF THE BEAM. MULTIPLI	E STUDS SHALL CONTINUE TO FOU	INDATION.	öÖ
OR TO COMPLETION OF 3RD DT DEEMED TYPICAL. R WALL COMPONENTS, BUT	ANCHORS AT 32" O.C. MAXIMUM UNLESS SECTION OF PLATE. SCREW ANCHORS SI CLOSER THAN 3" FROM END OF PLATE, R SHEAR WALLS. REFER TO SHEAR WALLS	NOTED OTHERWISE. USE A MINIMU HALL BE PLACED AT A MAXIMUM OI REFER TO IBC CHAPTER 23. SCREW	JM OF TWO SCRÈW ANCHORS PER F 12" FROM END OF PLATE AND NO ANCHOR SPACING MAY DIFFER AT	ONS <sup>-</sup>
E AND FOR ANY BUILDING THAT	15. 2x FRAMED OVERBUILDS NOT OTHER MAXIMUM SPAN OF 8'-0". PROVIDE CRIPP ROOF FRAMING MEMBERS BELOW. DO N	LE WALLS AS REQUIRED. CRIPPLE	WALLS SHALL BEAR DIRECTLY OVER	RENOVATION JCATIO METCALF PARK, KS 662
L	16. CONCENTRATED LOADING SUCH AS C FIXTURES, ETC. WHICH ARE TO BE ATTAC TO THE JOISTS, RAFTERS, TRUSSES, OR	CHED TO ELEVATED FLOOR OR RO	OF STRUCTURES SHALL BE SECURED	
L EACH END AIL AIL	ROOF SHEATHING 1. ROOF SHEATHING SHALL BE 1/2" THICK EDGES. SECURE SHEATHING TO SUPPOF			
AND FACE NAIL :. TYP. FACE NAIL D.C. AIL	O.C. IN THE FIELD. TYPICAL UNLESS NOTI BETWEEN EVERY ROOF TRUSS OR JOIST	ed otherwise. Provide Simpson T.	N PSCL PANEL SHEATHING CLIPS	
L OR 2 -16d END NAIL E FACE NAIL E TYP. FACE NAIL	2. MINIMUM SHEATHING SHEET SIZE SHA HORIZONTALLY PER TYPICAL DETAILS ON	N S0 SHEETS.		
L	3. NAILS USED TO ATTACH SHEATHING SI MEMBER.	HALL HAVE A MINIMUM PENETRATIO	ON OF 1 5/8" INTO THE SUPPORTING	$   \neq  $
OENAIL VAIL ALONG EDGE L	4. WHERE EDGE NAILING OCCURS FOR M 1/2" MINIMUM.			
L ACE NAIL (SEE TABLE 2308.10.4.1) ACE NAIL (SEE TABLE 2308.10.4.1)	5. CONCENTRATED LOADING SUCH AS CE FIXTURES, ETC. WHICH ARE TO BE ATTAC TO THE JOISTS, RAFTERS, TRUSSES, OR	CHED TO ELEVATED FLOOR OR ROUBEAMS, NOT TO THE FLOOR OR RO	OF STRUCTURES SHALL BE SECURED DOF SHEATHING.	B B
	6. A 6" MAXIMUM DRILLED HOLE IS ALLOW ADDITIONAL FRAMING OR REINFORCEME REQUIRED.			
: BEARING IAIL IL OR 2 - 16d FACE NAIL IL OR 2 - 16d FACE NAIL IAIL IAIL	EXTERIOR WALL AND SHEAR WALL SHEA 1. SHEATHING SHALL BE AS NOTED ON TI THICK, 32/16 APA RATED, EXPOSURE 1. B SHEAR WALL SCHEDULE FOR PANEL EDO TO SUPPORTS WITH 0.131"x3" NAILS. PLA EXTERIOR WALLS. REFER TO PLANS AND	HE PLANS AND SCHEDULES. AS A I BLOCKING IS REQUIRED AT EDGES GE BLOCKING REQUIREMENTS AT S ACE NAILS AT 6" O.C. AT EDGES AND	AT ALL EXTERIOR WALLS, REFER TO SHEAR WALLS. SECURE SHEATHING D AT 12" O.C. IN THE FIELD AT	CONFIDENTIAL
VAIL C. FACE NAIL AT TOP AND GGERED ON OPPOSITE SIDES ACE NAILS AT ENDS AND AT	2. MINIMUM SHEATHING SHEET SIZE SHA VERTICALLY PER TYPICAL DETAILS ON SO		NIMUM. SHEATHING SHALL BE LAID	THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND CONTAIN EXCLUSIVE DESIGNS OF DILLE & POLLARD, LLC. ANY
	3. BLOCKING IS REQUIRED AT ALL EDGES EDGE NAIL SPACING IS 4" O.C. OR GREAT O.C. REFER TO TYPICAL DETAILS ON SO	FER. USE 3x BLOCKING WHERE EDO	GE NAIL SPACING IS LESS THAN 4"	USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY DILLE & POLLARD, LLC IS STRICKLY PROHIBITED. THESE DRAWINGS HAVE BEEN
	ARE LIMITED TO S0.0, S0.1 OTHER PLANS, SPECIFICA	I, S0.2, S1.0 AND S2.0. I HEREBY TIONS, ESTIMATES, REPORTS, A TO OR INTENDED TO BE USED F	BE AUTHENTICATED BY MY SEAL DISCLAIM RESPONSIBILITY FOR ALL AND OTHER DOCUMENTS OR FOR ANY PART OR PARTS OF THE	DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE DATE DECEMBER 15, 2023
	EARL V. ROLLISON, PE	2 :	10/10/2022 DATE	GENERAL NOTES JOB NO. 21-1439

KANSAS LICENSE NO: 10822

DATE



BAR		EMBEDMENT						EXTENSION		
SIZE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	90° HOOK	180° HOOK	MINIMUM BEND DIAMETER (IN.)	
#3	6	6	6	6	6	6	5	3	3	
#4	8	7	6	6	6	6	6	3	4	
#5	10	8	7	7	6	6	8	3	5	
#6	12	10	9	8	8	7	9	3	6	
#7	13	12	10	9	9	8	11	4	7	
#8	15	13	12	11	10	9	12	4	8	
#9	17	15	13	12	11	11	14	5	12	
#10	19	17	15	14	13	12	16	6	13	
#11	22	19	17	15	14	13	17	6	15	
OTES:			ON 2 1/2" MIN	IIMUM SIDE C	OVER AND 2"		COVER.	6	15	

## LAP SPLICE LENGTHS (INCHES)

	Fy = 60,000 PSI												
		TENSION (CLASS B SPLICE)									COMPRESSION		
BAR SIZE	OTHER BARS						TOP BARS						
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI-10.000 PSI CONCRETE
#3	23	20	17	16	15	15	29	25	23	21	19	19	12
#4	29	25	23	21	20	19	38	33	30	28	25	24	15
#5	37	32	29	26	24	23	47	41	37	34	32	29	19
#6	43	38	34	32	29	28	56	49	45	41	37	36	23
#7	63	55	50	45	42	39	82	71	64	59	54	51	27
#8	72	63	56	51	47	45	94	81	73	67	62	58	30
#9	81	71	63	58	54	50	106	91	82	75	69	65	34
#10	91	80	71	65	60	56	119	103	93	84	78	73	39
#11	102	88	78	72	67	63	132	114	102	93	86	81	43
#14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51
#18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68

NOTES: TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

DEVELOPMENT LENGTHS IN TENSION ARE BASED ON THE FOLLOWING. NOTIFY ENGINEER IF ONE OF THE FOLLOWING CRITERIA IS NOT MET:

A. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN THE BAR DIAMETER, CLEAR COVER NOT LESS THAN THE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM, OR

B. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2 TIMES THE BAR DIAMETER AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER.

	OTH 3000 PSI	ER BARS				TENS								CO
30		ER BARS												
					OTHER BARS						TOP BARS			
0		4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI CONCRETE	4000 CONC
#3	17	15	13	12	12	12	22	19	17	16	14	14	9	8
#4	22	19	17	16	15	14	29	25	23	21	19	18	11	1
#5	28	24	22	20	18	17	36	31	28	26	24	22	14	1:
#6	33	29	26	24	22	21	43	37	34	31	28	27	17	1
#7	48	42	38	34	32	30	63	54	49	45	41	39	20	17
#8	55	48	43	39	36	34	72	62	56	51	47	44	22	19
#9	62	54	48	44	41	38	81	70	63	57	53	50	25	2
#10	70	61	54	50	46	43	91	79	71	64	60	56	28	2
#11	78	67	60	55	51	48	101	87	78	71	66	62	31	2
#14	93	81	72	66	61	57	121	105	94	86	79	74	38	33
#18	124	108	96	88	81	76	161	140	125	114	106	99	50	43

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

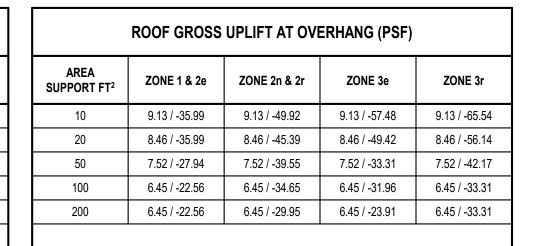
#### TYPICAL GROSS UPLIFT NOTES

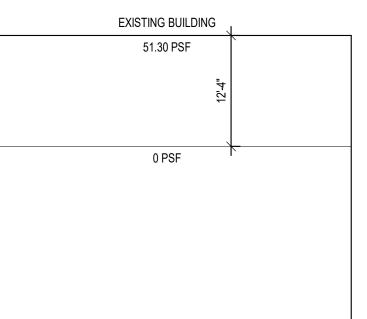
- 1. ALL UPLIFT VALUES ARE AT SERVICE LEVEL.
- 2. NEGATIVE VALUE DENOTES PRESSURE AWAY FROM SURFACE.
- 3. POSITIVE VALUE DENOTES PRESSURE TOWARD THE SURFACE.
- 4. EFFECTIVE DEAD LOAD TO RESIST UPLIFT = 15 PSF.

WALL AND PARAPET PRESSURES (PSF)

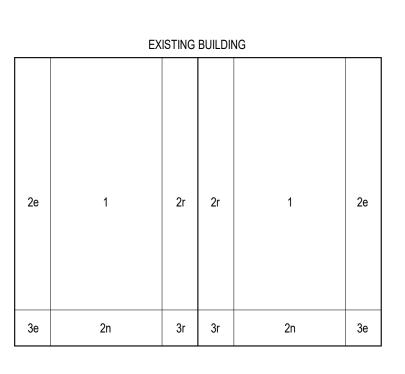
AREA	WA	LLS	PARAPETS		
SUPPORT FT <sup>2</sup>	ZONE 4	ZONE 5	ZONE 4	ZONE 5	
10	15.85 / -17.19	15.85 / -21.22	NA	NA	
20	15.17 / -16.52	15.17 / -19.88	NA	NA	
50	14.51 / -15.58	14.51 / -17.86	NA	NA	
100	13.43 / -14.51	13.43 / -16.52	NA	NA	
200	12.89 / -13.83	12.89 / -15.18	NA	NA	

	ROOF	GROSS UPLIFT	(PSF)	
AREA SUPPORT FT <sup>2</sup>	ZONE 1 & 2e	ZONE 2n, 2r, & 3e	ZONE 3r	
10	9.13 / -29.28	9.13 / -42.71	9.13 / -50.77	
20	8.46 / -29.28	8.46 / -37.34	8.46 / -42.71	
50	7.52 / -18.63	7.52 / -29.28	7.52 / -33.31	
100	6.45 / -9.13	6.45 / -23.91	6.45 / -26.59	
200	6.45 / -9.13	6.45 / -17.86	6.45 / -26.59	





#### BASIS FOR DESIGN - SNOW DRIFTING PLAN В S0.1 Scale: 3/32" = 1'-0"



## A BASIS FOR DESIGN - ROOF GROSS UPLIFT PLAN S0.1 Scale: 3/32" = 1'-0"

#### PRE-ENGINEERED WOOD ROOF TRUSSES:

1. ALL ROOF TRUSSES, CALLED OUT ON PLANS, SHALL BE PRE-ENGINEERED, MANUFACTURED TRUSSES. TRUSS MEMBERS SHALL CONFORM TO DIMENSIONS, SPACING, AND CONFIGURATIONS CALLED OUT IN PLANS AND DETAILS AND SHALL BE DESIGNED FOR SPECIFIED LOADINGS AND ALLOWABLE LIVE LOAD DEFLECTION OF LESS L/360. NOTE: WEB CONFIGURATION MAY VARY FROM THAT SHOWN IN TRUSS PROFILES.

2. SHOP DRAWINGS AND DESIGN FOR ROOF TRUSSES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION. SHOP DRAWING SUBMITTALS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. ROOF TRUSS DESIGN SHALL BE FOR LOADINGS OF 15 P.S.F. DEAD LOAD AND 20 P.S.F. LIVE LOAD ON THE TOP CHORD AND 5 P.S.F. DEAD LOAD ON THE BOTTOM CHORD.

3. REQUIRED BRACING, BLOCKING, BRIDGING, WEB STIFFENERS, ETC. FOR TRUSSES SHALL BE INCLUDED IN THE SHOP DRAWINGS AND SHALL BE IN PLACE BEFORE THE DECKING IS INSTALLED. AS A MINIMUM, TEMPORARY AND PERMANENT BRACING AND CROSS BRACING SHALL BE INSTALLED PER "TPI" COMMENTARY AND RECOMMENDATIONS FOR BRACING OF WOOD TRUSSES.

4. ALL ROOF TRUSSES SHALL BE ANCHORED TO BEARING PLATES WITH A RAFTER TIE EQUAL TO "SIMPSON" H10A. ANCHORS SHALL BE PLACED AT EACH BEARING WALL OF EVERY TRUSS OR AT A MAXIMUM SPACING OF 24" O.C.

5. ALL LUMBER USED FOR ROOF TRUSSES SHALL HAVE NO LARGE KNOTS OR DEFECTS.

6. CONNECTING PLATES SHALL BE PLACED ON BOTH SIDES OF TRUSS JOINTS AND SHALL BE SIZED ADEQUATE TO DEVELOP THE COMPUTED FORCES FOR THE INDIVIDUAL TRUSS MEMBERS WITH A SAFETY FACTOR OF 2.0. CONNECTING PLATES SHALL BE GALVANIZED STEEL EQUAL TO HYDRO-AIR.

7. WHERE ROOF TRUSSES ARE SUPPORTED ON METAL HANGARS OR WHERE TRUSSES TIE INTO ONE ANOTHER, THE TRUSS MANUFACTURER SHALL DESIGN AND SUPPLY THE HANGARS FOR REQUIRED LOADINGS AND NOTE REQUIRED SUPPORT AND ATTACHMENT ON SHOP DRAWINGS.

8. PRE-ENGINEERED TRUSSES ARE BOTTOM CHORD BEARING, U.N.O.

9. THE TRUSS MANUFACTURER SHALL PROVIDE TRANSFER TRUSSES BETWEEN ALL TRUSSES AT EXTERIOR WALLS IF THE TRUSS HEEL OVER THE EXTERIOR WALL TOP PLATES EXCEEDS THE HEIGHT OF AVAILABLE DIMENSIONAL LUMBER. DIMENSIONAL LUMBER BLOCKING MAY BE USED IN LIEU OF TRANSFER TRUSSES IF THE BLOCKING HEIGHT IS EQUAL TO THE TRUSS HEEL HEIGHT. LOCATE DIMENSIONAL LUMBER BLOCKING IN BETWEEN EVERY OTHER TRUSS CAVITY ONLY. THE TOP OF THE TRANSFER TRUSS AND/OR BLOCKING WILL GO ALL THE WAY TO THE BOTTOM OF ROOF DECKING.

10. OVERBUILD CALLED OUT ON FRAMING PLANS SHALL BE PRE-ENGINEERED ROOF TRUSSES @ 24" ON CENTER.

11. END WALL TRUSSES SHALL HAVE VERTICAL WEBS AT 16" ON CENTER SPACING MAXIMUM.

D. S<sub>1</sub> = 0.069 E. SITE CLASS = D

A. RISK CATEGORY = II

A. ROOF (NO REDUCTION) ....

F. SD<sub>S</sub> = 0.102

C. S<sub>S</sub> = 0.096

BASIS FOR DESIGN: 1. BUILDING CODE: IBC 2018

A. ROOF..

2. DEAD LOADS

3. LIVE LOADS

4. SEISMIC LOAD

- G. SD<sub>1</sub> = 0.111 H. SEISMIC DESIGN CATEGORY = B
- I. BASIC SEISMIC FORCE RESISTING SYSTEM = WOOD FRAMED: LIGHT FRAMED WALLS WITH WOOD STRUCTURAL PANELS RATED FOR SEISMIC RESISTANCE.

.20 PSF

....20 PSF

- J. DESIGN BASE SHEAR = 0.60 KIPS K. SEISMIC RESPONSE COEFFICIENT(S), Cs = 0.016
- L. RESPONSE MODIFICATION COEFFICIENT(S), R = 6.5
- M. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

B. SEISMIC IMPORTANCE FACTOR, le = 1.0

- 5. SNOW LOAD
  - A. GROUND SNOW, Pg = 20 PSF B. FLAT ROOF SNOW LOAD, Pf = 14 PSF
  - C. EXPOSURE FACTOR, Ce = 1.0
  - D. IMPORTANCE FACTOR, Is = 1.0 E. THERMAL FACTOR, Ct = 1.0
  - F. RAIN ON SNOW = 0 PSF
  - G. MINIMUM ROOF SNOW LOAD = 20 PSF

#### 5. WIND LOAD

- A. WIND SPEED (3-SECOND GUST) a. ULTIMATE DESIGN WIND SPEED = 110 MPH
- b. SERVICE DESIGN WIND SPEED = 85.21 MPH B. EXPOSURE = "C"
- C. INTERNAL PRESSURE COEFFICIENT = ±0.18 (ENCLOSED BUILDINGS)
- D. COMPONENTS & CLADDING WIND PRESSURES RE: A/S0.1 DIAGRAM

## STATEMENT OF SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PRIMARY BUILDING FRAME / MAIN FORCE RESISTING SYSTEM PER THE LATEST EDITION OF THE IBC.
- REFER TO THE IBC FOR ADDITIONAL INFORMATION RELATED TO THESE TABLES.
- INSPECTIONS AND TESTING SHALL BE PROVIDED BY A QUALIFIED TESTING LABORATORY, RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER OF RECORD.
- REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECT, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTOR PRIOR TO THE FINAL INSPECTION.

SOILS		
IBC TABLE 1705.6		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х

CONCRETE CONSTRUCTION		
IBC TABLE 1705.3		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	-	Х
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	Х
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	-	Х
C. INSPECT ALL OTHER WELDS.	Х	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	Х
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED	Х	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	Х
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	Х
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х

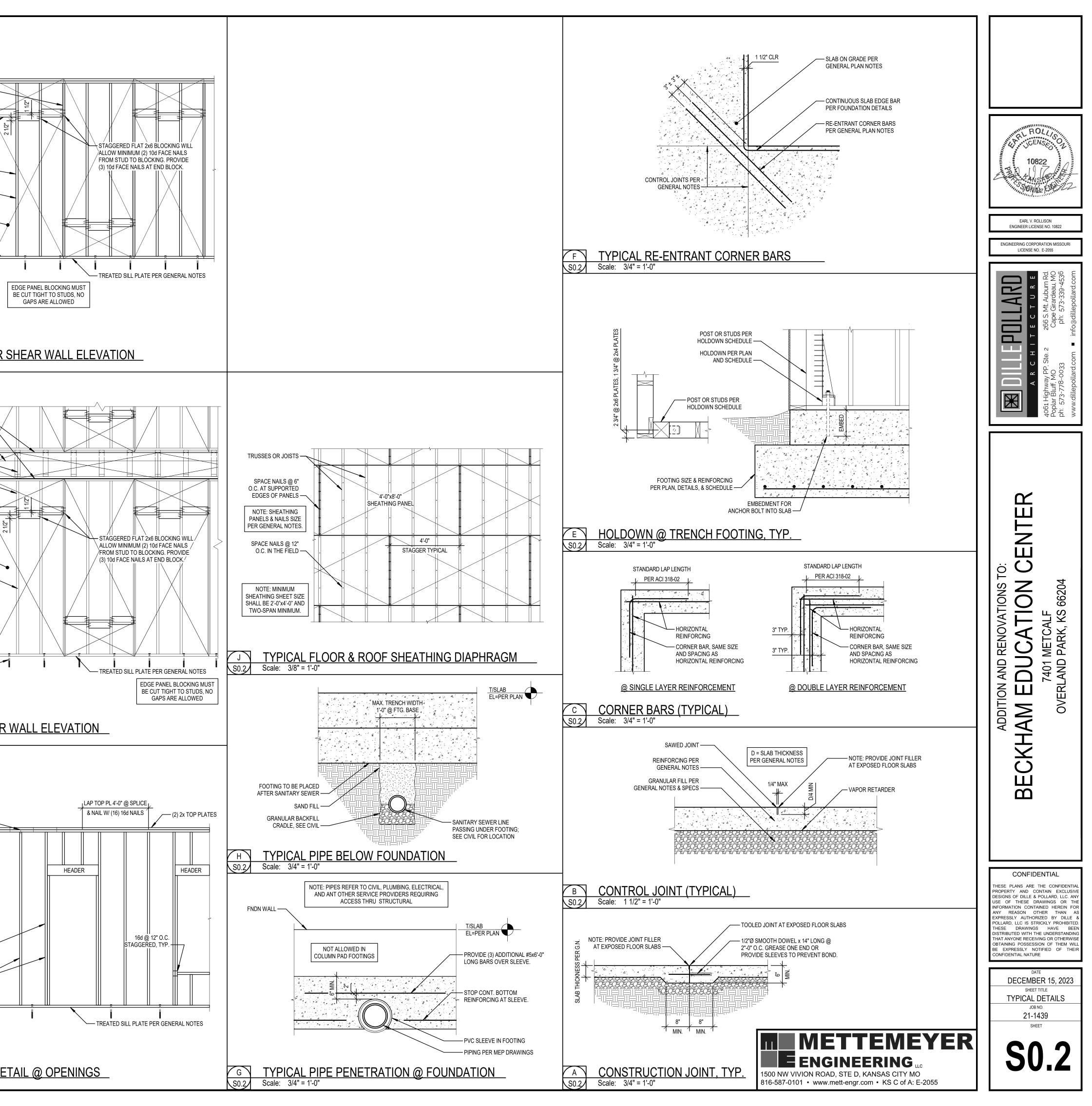
WOOD CONSTRUCTION		
IBC TABLE 1705.5		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. HIGH-LOAD DIAPHRAGMS (NAIL SPACING LESS THAN 6" O.C. AT EDGES):		
A. VERIFY STRUCTURAL PANEL SHEATHING GRADE AND THICKNESSES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
C. VERIFY THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
2. METAL-PLATE-CONNECTED WOOD TRUSSES:		
A. VERIFY THE INSTALLATION OF THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	Х
B. VERIFY DURING CONSTRUCTION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	Х



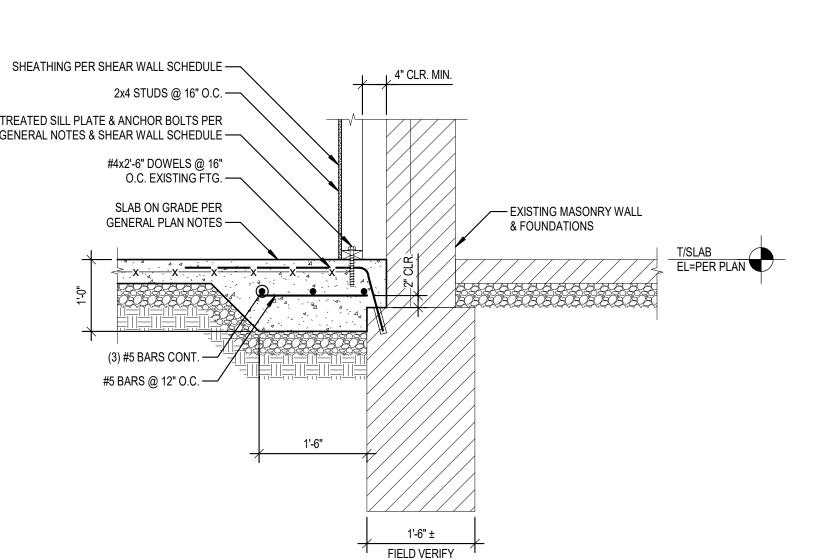
10822 HANSA
EARL V. ROLLISON ENGINEER LICENSE NO. 10822
ENGINEERING CORPORATION MISSOURI LICENSE NO. E-2055
A       R       H       I       E       T       U       R         4061       Highway PP, Ste. 2       266 S. Mt. Auburn Rd.         Poplar Bluff, MO       Phi: 573-778-0033       Phi: 573-339-4536         www.dillepollard.com       info@dillepollard.com
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PROVIDE STUDS @ VERT. SHEATHING JOINTS, TYP.
PROVIDE FLAT 2x6 PANEL EDGE BLOCKING @ HORIZONTAL SHEATHING JOINTS. STAGGER BLOCKING 2-1/2". PROVIDE 1-1/2" OFFSET FROM BLOCK
EDGE TO PANEL JOINT. PROVIDE FASTENERS @ PANEL EDGES AND AT FIELD SUPPORTS PER GENERAL NOTES AND
SHEAR WALL SCHEDULE 2x STUDS PER GENERAL NOTES
SHEATHING @ SHEARWALL, STAGGER HORIZ. JOINTS SEE WALL TYPE
HOLDOWN OR ROD SYSTEM PER SHEAR WALL SCHEDULE & GENERAL NOTES
ANCHOR BOLTS, SPACING PER GENERAL NOTES AND SHEAR WALL SCHEDULE
S0.2 Scale: 3/8" = 1'-0"
GAPS AT OSB PANEL EDGE PER APA OR MFR RECOMMENDATION, TYP.
PROVIDE OSB JOINTS AT TRUSS LOCATIONS NAILING
PER SHEAR WALL SCHEDULE
PROVIDE FLAT 2x6 PANEL EDGE BLOCKING @ HORIZONTAL SHEATHING JOINTS. STAGGER BLOCKING 2-1/2". PROVIDE 1-1/2"
OFFSET FROM BLOCK EDGE TO PANEL JOINT
STAGGER HORIZ. JOINTS FIELD NAILING PER GENERAL NOTES AND SHEAR WALL SCHEDULE
EDGE NAILING PER GENERAL NOTES AND SHEAR WALL SCHEDULE
HOLDOWN OR ROD SYSTEM PER SHEAR WALL SCHEDULE & GENERAL NOTES
ANCHOR BOLTS, SPACING PER GENERAL NOTES AND SHEAR WALL SCHEDULE
L TYPICAL EXTERIOR S0.2 Scale: 3/8" = 1'-0"
(2) 16d EA. STUD, AND 1-10d TOENAIL EA. SIDE FOR
(4) 16d @ CORNER LAPS & CROSSWALL LAPS OF
TOP PLATES -7 16d @ 16" STAGGERED
DOUBLE STUDS @ OPENING, ONE KING STUD AND ONE CRIPPLE STUD, TYP. U.N.O.
NAIL KING STUD TO END OF HEADER WITH (4) 16d NAILS. 2x STUDS @ 16"
O.C. MAX ANCHOR BOLT BETWEEN OPENINGS; 2 BOLTS/BOARD MIN.
(MAX. = 4 <sup>+</sup> .0" O.C.), SPACING PER SHEAR WALL SCHEDULE
K TYPICAL FRAME DE
S0.2 Scale: 3/8" = 1'-0"

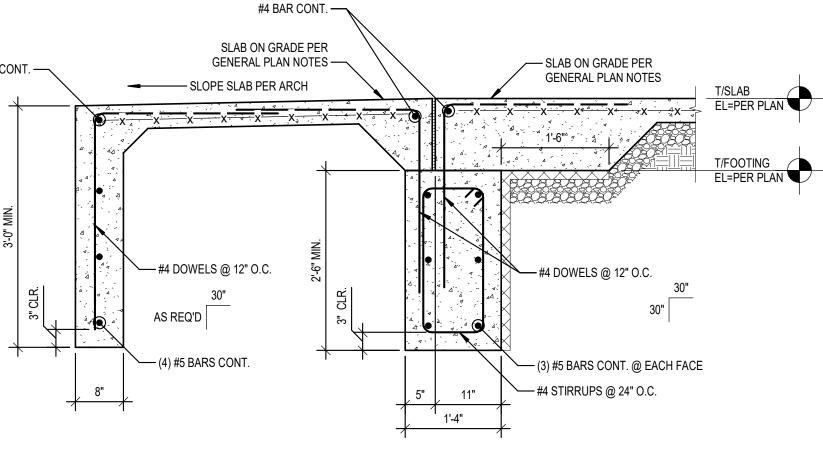
NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.



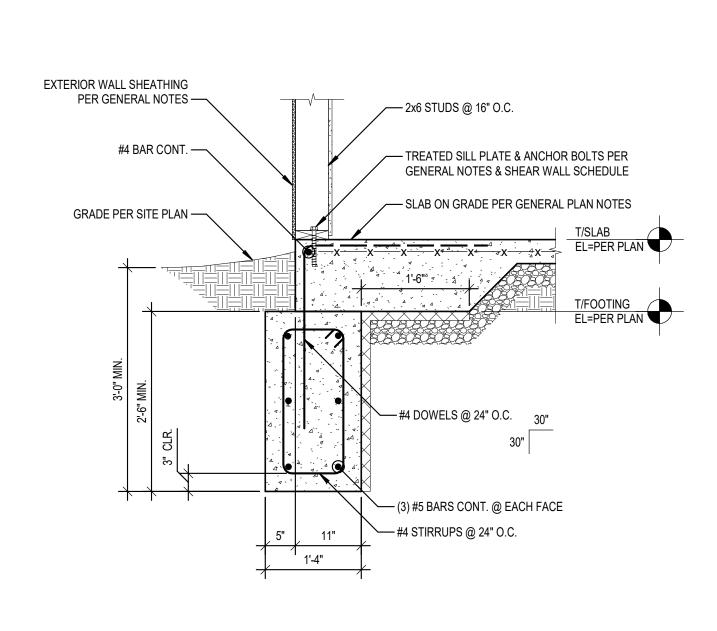
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NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED	

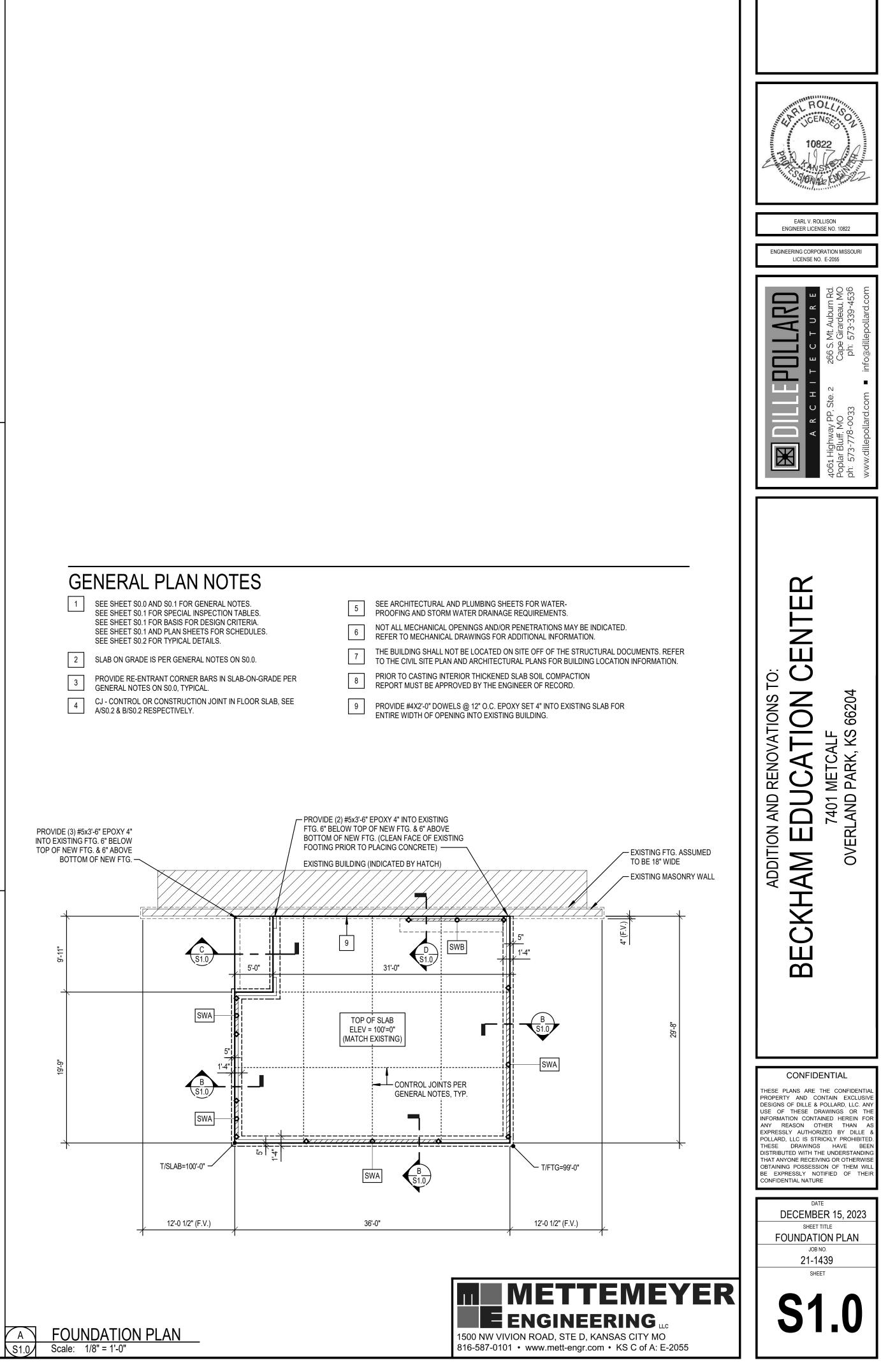


FOUNDATION DETAIL Scale: 3/4" = 1'-0"

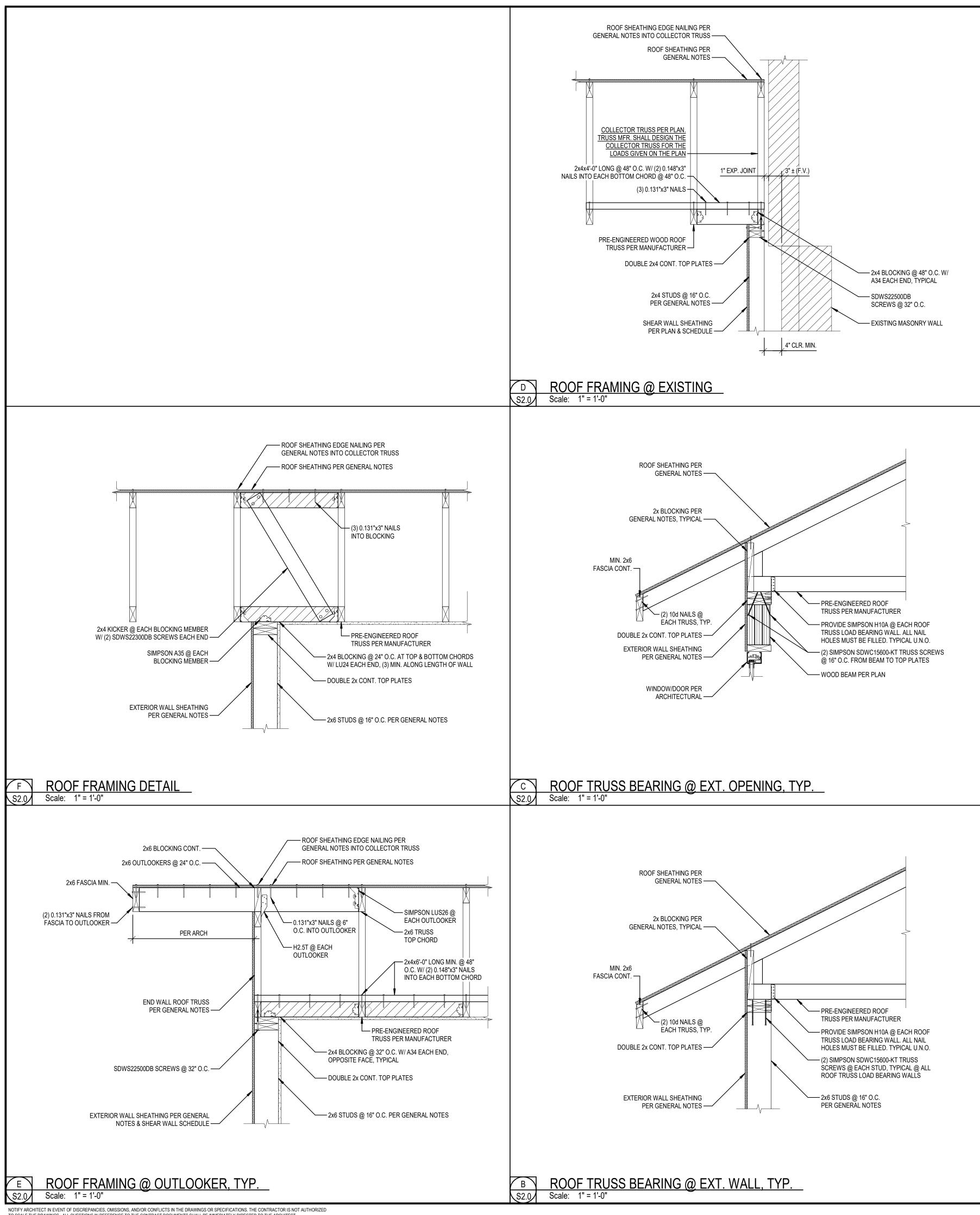


# FOUNDATION DETAIL Scale: 3/4" = 1'-0"



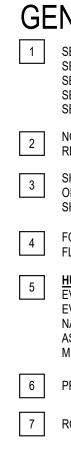


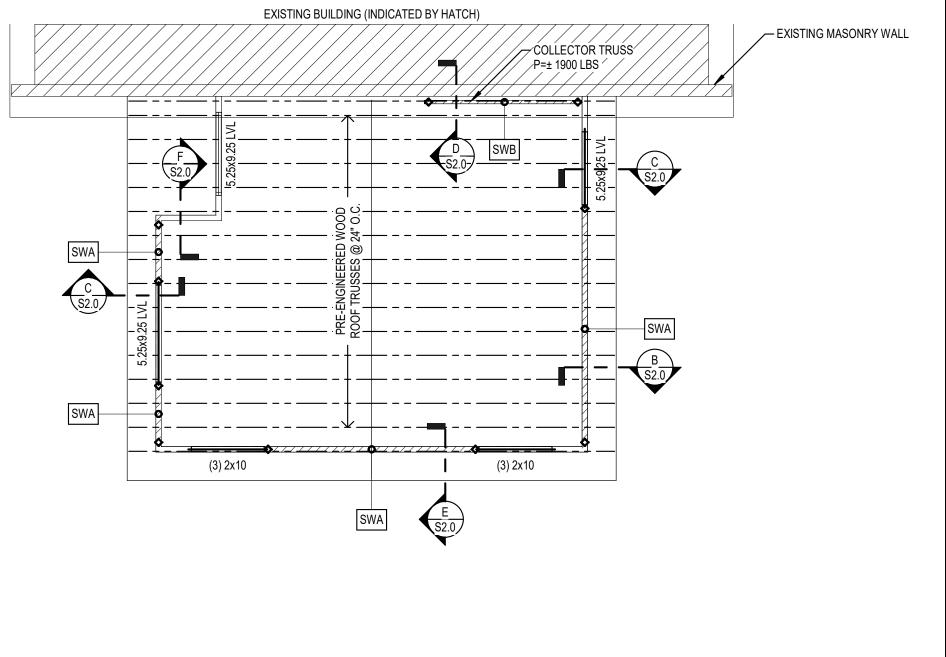
# FOUNDATION DETAIL Scale: 3/4" = 1'-0"



TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

		END POST				SHEATHING	SHEA	THING ATTACH	MENT	SILL BOLTS:		
MARK	END POST (MIN. REQ'D)	ANCHORS HOLDOWN @ FOUNDATION	BLOCK ALL EDGES	FACES OF WALL	WHICH FACE	MATERIAL & NOMINAL THICKNESS	SIZE/TYPE	SIZE/TYPE EDGES O.C. FIEL SPACING SPA		5/8"Øx5" TITEN HD O.C. SPACING	REMARKS	
SWA	(2) 2x6	HDU2-SDS2.5	YES	ONE	EXTERIOR	1/2" OSB	0.131"x3"	6"	12"	32"	5/8"Ø A.T. 8" EMBED IN SLA	
SWB	(2) 2x4	HDU2-SDS2.5	YES	ONE	INTERIOR	1/2" OSB	0.131"x3"	6"	12"	32"	5/8"Ø A.T. 8" EMBED IN SLA	
SWB       (2) 2x4       HDU2-SDS2.5       YES       ONE       INTERIOR       1/2" OSB       0.131"x3"       6"       12"       32"       5/8"Ø A.T. 8" EMBED IN SLAB         NOTES:         1. BUILT UP DOUBLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.         2. BUILT UP TRIPLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.         3. BUILT UP TRIPLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.         3. BUILT UP TRIPLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.         3. BUILT UP TRIPLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED FROM EACH FACE, STAGGER NAILING PATTERN.         3. BUILT UP END POSTS W/ MORE THAN (3) STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED EACH PLY, STAGGER NAILING PATTERN.         4. OSB SHEATHING SHALL BE 32/16 EXPOSURE ONE SHEATHING, UNLESS NOTED OTHERWISE.         5. CONNECTORS ARE SIMPSON STRONG-TIE, UNLESS NOTED OTHERWISE.         6. REFER TO TYPICAL WOOD CONSTRUCTION DETAILS FOR ADDITIONAL REQUIREMENTS ON THE INSTALLATION OF HOLDOWNS AND STRAPS.         7. "STRAP/HOLDOWN @ END POST" REFERS TO THE CONNECTOR AT THE BOTTOM OF THE WALL FOR THE REFERENCED LEVEL.         8. PROVIDE COMMON NAILS FOR ATTACHMENT OF WOOD SHEATHING AND COOLER NAILS FOR ATTACHMENT OF GYPSUM BOARD SHEATHING.         9. HOLDOWN SHALL USE ALL THREAD (A.T.) EPOXY SET W/ SIMPSON SET-3G.												





ROOF FRAMING PLAN Scale: 1/8" = 1'-0" A S2.0

WOOD BEAM/HEADER SCHEDULE						
BEAM TYPE	JACK STUDS	KING STUDS				
(3) 2x10	(1) 2x6	(1) 2x6				
5.25x9.25 LVL	(2) 2x6	(2) 2x6				
NOTES: 1. BUILT UP DOUBLE STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED. 2. BUILT UP TRIPLE STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED FROM EACH FACE, STAGGER NAILING PATTERN. 3. BUILT UP POSTS W/ MORE THAN (3) STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED EACH PLY, STAGGER NAILING PATTERNS. 4. WOOD BEAMS UPSET INTO TRUSS CAVITY SHALL HAVE ENOUGH BEARING STUDS BELOW BEAM TO EQUAL FULL WIDTH OF BEAM.						

## **GENERAL PLAN NOTES**

SEE SHEET S0.0 AND S0.1 FOR GENERAL NOTES. SEE SHEET S0.1 FOR SPECIAL INSPECTION TABLES. SEE SHEET S0.1 FOR BASIS FOR DESIGN CRITERIA. SEE SHEET S0.1 AND PLAN SHEETS FOR SCHEDULES. SEE SHEET S0.2 FOR TYPICAL DETAILS.

NOT ALL MECHANICAL OPENINGS AND / OR PENETRATIONS MAY BE INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

SHEAR WALLS DENOTED W/ HATCH AND DIAMONDS ON PLANS. DIAMONDS INDICATE THE END OF THE SHEAR WALL. REFER TO THE PLANS FOR SHEAR WALL TYPE, SCHEDULES SHEET FOR SHEAR WALL SCHEDULE, AND TYPICAL DETAILS SHEETS FOR ADDITIONAL INFORMATION.

FOR EXTERIOR & SHEAR WALL FRAMING, FRAME DETAIL AT OPENINGS AND 4 FUR EXTERIOR & SHEAR WALL FRAMING, FRAME DETAIL AT OPENINGS FLOOR/ROOF DIAPHRAGM SEE DETAILS ON TYPICAL DETAILS SHEETS.

HURRICANE TIE REQUIREMENTS: EVERY TRUSS @ EXTERIOR LOAD BEARING WALLS - SIMPSON H10A OR USP RT16A. EVERY TRUSS @ INTERIOR LOAD BEARING WALLS - SIMPSON H10A OR USP RT16A. ALL NAIL HOLES MUST BE FILLED, LOCATE TIE ACCORDINGLY. NAIL THROUGH TRUSS PLATES AS REQUIRED TO ENSURE ALL NAILS HOLES ARE FILLED. FRAMER SHALL REVIEW TIE MFR. INSTALLATION REQUIREMENTS TO ENSURE PROPER INSTALLATION.

PRE-ENGINEERED TRUSSES ARE BOTTOM CHORD BEARING, U.N.O.

7 ROOF TRUSS BEARING ELEVATION = PER ARCHITECTURAL DRAWINGS.



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TICENSE NOT LE C T U R E         A R C H I T E C T U R E         A R C H I T E C T U R E         A R C H I T E C T U R E         Poplar Bluff, MO         Ph: 573-778-0033         www.dillepollard.com       info@dillepollard.com
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SHEET TITLE

FRAMING PLAN

JOB NO.

21-1439

SHEET

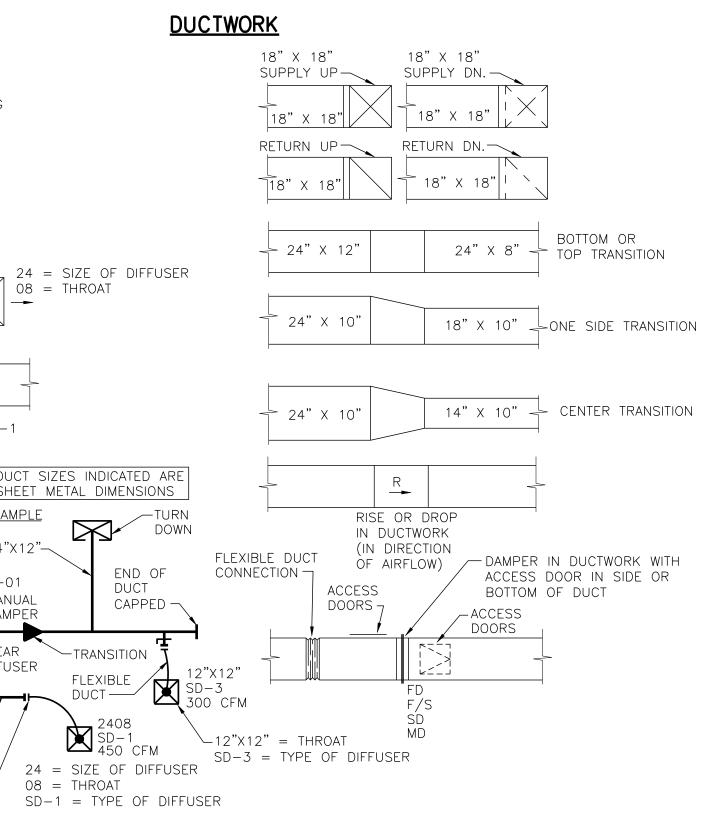
**S2**.

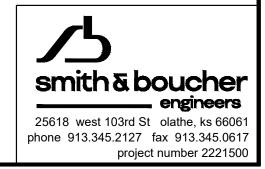
	CONDUIT AND WIRE		COMMUNI	CATIONS		FIRE ALAR	M	F	IVAC	F	PLUMBING	F	PIPING
	ARROWS INDICATE CONDUIT AND WIRE TO PANEL WITH 2-#12 AWG CONDUC		S) TELEPHONE	OUTLET		F MANUAL PULL			CHILLED WATER SUPPLY	<u>_</u>		C+	ELBOW DOWN
	NOTED OR OTHERWISE REQUIRED.		LINE THRU	DEVICE INDICATES A			IC DETECTOR ('D' DENOTES DENOTES BEAM-TYPE)		CHILLED WATER RETURN CHILLED/HOT WATER SUPPLY			+0 +0+	ELBOW UP
	CONDUIT RUN CONCEALED IN WALL O CEILING.	DR ABOVE	•	/DATA OUTLET	L	('R' DENOTES	IN RETURN AIR PLENUM)		CHILLED/HOT WATER RETURN	TW	DOMESTIC TEMPERED WATER	+ <u></u> ;+	
, — — 、	CONDUIT RUN UNDERGROUND OR CON FLOOR SLAB.	NCEALED IN		WITH COMMUNICATI	IONS OUTLET		TECTOR ('D' DENOTES DENOTES PLENUM-TYPE)		HEATING HOT WATER SUPPLY	+		]	CAP
T			<u> </u>	ANTENNA OUTLET	DOD BOARD		ECTOR ('D' DENOTES IN DUCT)		HEATING HOT WATER RETURN COOLING TOWER SUPPLY				
LV	- LOW VOLTAGE CONDUIT AND WIRING					тнеrmodetec	TOR ('D' DENOTES IN DUCT)		COOLING TOWER RETURN		SOIL OR WASTE ABOVE GRADE OR FLOOR		· · · · ·
			SECURITY	,		DH DOOR HOLDE	ATURE AS NOTED		LOW PRESSURE STEAM LOW PRESSURE CONDENSATE RETURN	— — SAN — — ST			
	<u>LIGHTING</u>			• RCUIT TV CAMERA			N N N N N N N N N N N N N N N N N N N		HIGH PRESSURE STEAM - NO'S GIVE GAUGE	<b>— —</b> ST <b>— —</b>			
	BATTERY OPERATED EMERGENCY LIGHT	r (wall moun				FO BELL			PRESSURE IN P.S.I.	ST/0	STORM OVERFLOW ABOVE GRADE OR FLOOR		
	BATTERY OPERATED EMERGENCY LIGHT	r (ceiling mc	DUNTED) DOOR LOCK				SPEAKER – ARROWS DENOTE	— - RTN-50	HIGH PRESSURE RETURN – NO'S GIVE GAUGE PRESSURE IN P.S.I.	<b>—</b> —ST/O <b>—</b> —		X Ø	
$\bigcirc$	SURFACE/RECESSED LIGHT FIXTURE		WT WATCH TOU	JR			IF ANY. ('L' DENOTES SPEAKER AND VISUAL FIRE LIGHT)	RD	REFRIGERANT DISCHARGE	G	GAS (NATURAL)	++	PRESSURE GAUGE WITH GAUGE COCK
•	FLUORESCENT LIGHT FIXTURE		<u> </u>	DOOR LOCK	I		('L' DENOTES COMBINATION SUAL FIRE LIGHT)	RL	REFRIGERANT LIQUID REFRIGERANT SUCTION	LP PD		<del></del> _	TEMPERATURE GAUGE
	FLUORESCENT STRIP FIXTURE		↓ J ▲	NSOR (WALL MOUNT	ED) – SECURITY [	RL REMOTE ALAR	M LAMP		FUEL OIL SUPPLY			+[]+	FLOW INDICATOR
	SHADING DENOTES EMERGENCY FIXTU	RE	-		]	PI POST INDICAT	OR SWITCH		FUEL OIL RETURN	Th we		Ţ	THERMOMETER.
	POLE MOUNTED LIGHT FIXTURE		PUBLIC A	DDRESS		FS FLOW SWITCH		— A — — D —		───∰ WCO ────⇒CO	WALL CLEAN OUT CLEAN OUT	, +⊘+	SITE GLASS
	EXIT LIGHT – DOUBLE FACE – ARRO'	WS AS SHOWI		NE OUTLET		■ F FIREMAN'S PH	IONE JACK	HTS	THERMOSTAT - ('S' DENOTES SENSOR)	© FCO	FLOOR CLEAN OUT		EXPANSION JOINT
	EXIT LIGHT – SINGLE FACE – ARROW		(S) <sub>H</sub> SPEAKER.	('H' DENOTES HORI OLUME CONTROL	N TYPE)	FIRE PROT	TION	⊢⊕ <sub>S</sub> ⊢⊕	HUMIDISTAT – ('S' DENOTES SENSOR) THERMOSTAT/HUMIDITY SENSOR		FLOOR DRAIN, AREA DRAIN, FLOOR SINK		FILTER-DRIER DRIP ASSEMBLY
<u>\$ \$<sup>3</sup> \$<sup>4</sup> \$<sup>K</sup> \$<sup>LV</sup> \$</u>	LIGHTING SWITCHES-SINGLE POLE, 3- KEY, LOW VOLTAGE, PILOT LIGHT	-WAY, 4-WAY,		CONDUIT AND WIRING	·	FP — FIRE PROTE		C02	CARBON DIOXIDE SENSOR	RD ORD	ROOF DRAIN, OVERFLOW ROOF DRAIN	~	
\$ <sup>D</sup>	DIMMER WITH SINGLE POLE SWITCH			DRESS AMPLIFIER AN		HC FIRE HOSE		THC	THERMOSTAT/HUMIDITY SENSOR/CO2 SENSOR	${\triangleleft}$	SHOWER HEAD.		
\$ <sup>D3</sup>	DIMMER WITH THREE WAY SWITCH (WA	ATTAGE NOTED	) □→ BUZZER D) ■⊙ BELL				IMENT VALVE RINKLER HEAD		HUMIDIFIER	<u></u> <u></u> <u></u>	REDUCED PRESSURE BACKFLOW PREVENTER		SHUTOFF VALVE SHUTOFF VALVE IN RISER
\$ <sup>M</sup>	WALL MOUNTED MOTION SENSOR		I INTERCOM	OUTLET	+ <u>}</u>	₩ PENDENT SI	PRINKLER		SUPPLY AIR FLOW INDICATOR	P	PLUMBING VENT RISER CALL-OUT NUMBER		BALANCING VALVE
$\mathbf{\Phi}_{(A)}$	CEILING MOUNTED MOTION SENSOR (LETTER DENOTES TYPE)		i ¥i	OUTLET – MASTER			PRINKLER	<b>-</b> -∕ ▼	RETURN AND EXHAUST AIR FLOW INDICATOR SUPPLY DIFFUSER	#	TEOMIDING VENT RISER GALE GOT NOMIDER		CALIBRATED BALANCING VALVE
Cho-	SWITCH AND DUPLEX RECEPTACLE			STEM RECEPTACLE W DENOTES DOUBLE F		RECESSED S	PRINKLER WITH CLOSURE PLATE		SUPPLY STRIP DIFFUSER	<u>(</u>	<u>GENERAL</u>		RELIEF VALVE
КÙ	DENOTES A WALL MOUNTED FIXTURE					SIDEWALL S	PRINKLER.		RETURN GRILLE OR EXHAUST REGISTER		MECHANICAL NOTE REFERENCE		
	WIRING DEVICES		POWFR D	EVICE AND		ØØ T+− DOUBLE CHE	CK DETECTOR BACKFLOW PREVENTER			2	ELECTRICAL NOTE REFERENCE		TRIPLE DUTY VALVE CHECK VALVE.
¢	DUPLEX RECEPTACLE.		T THERMOSTA		<u> </u>	FIRE PROTE	CTION SIAMESE CONNECTION			$\langle 3 \rangle$	DEMOLITION NOTE REFERENCE		ALITOMATIC CONTROL VALVE (2 WAY)
<del>\$-</del>	LINE THRU DEVICE INDICATES ABOVE		DISCONNEC EXCEPT AS	T SWITCH. 30A-3P NOTED	P, NON-FUSED				IOSPITAL NURSE CALL CONDUIT AND WIRING	4	REVISION NOTE REFERENCE		AUTOMATIC CONTROL VALVE (3-WAY)
	DUPLEX RECEPTACLE WITH ISOLATED (SINGLE AND FOURPLEX SIMILAR)	GROUND		DTOR STARTER	(	<u> </u>	TION SIDEWALK SIAMESE CONNECTION	— N — — M —	MONITOR CONDUIT AND WIRING		CONNECT TO EXISTING WORK		AUTO FLOW CONTROL VALVE
<del>Q_</del>	DUPLEX RECEPTACLE - TOP HALF SV		MAGNETIC M	MOTOR STARTER		⊗i Post indica	TUR VALVE	NMS	NURSE CALL MASTER STATION		DETAIL REFERENCE – NO./SHEET NO.	S	SOLENOID VALVE
5	BOTTOM HALF TO HAVE POWER AT AL		COMBINATIC SWITCH	ON MOTOR STARTER	AND DISCONNECT			N N <sub>2</sub>	NURSE CALL BEDSIDE STATION – SINGLE PATIENT NURSE CALL BEDSIDE STATION – DOUBLE PATIENT		,		
⊖ EM	DUPLEX RECEPTACLE ON EMERGENCY (SINGLE AND FOURPLEX SIMILAR)	POWER	O MOTOR			MEDICAL G	٨٢		EMERGENCY PUSHBUTTON STATION	M1	SECTION CUT - SECTION/SHEET NO.		PRESSURE REDUCING VALVE
			-			WILDICAL C		F_				+()+	
	FOURPLEX RECEPTACLE		L	RD (SEE ONE-LINE)		AC MEDICAL VA			('P' DENOTES PULL CORD)				
<b>□</b> ↔ ₽	FOURPLEX RECEPTACLE SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE				C		CUUM	E <sub>P</sub> DS SS			D		
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX		PANELBOAR DISTRIBUTIC	ON PANELBOARD	C N N	AC MEDICAL VA DX OXYGEN NO MA MEDICAL CO	IDE	E <sub>P</sub> DS SS	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED			UCTWORK 18" X 18"	18" X 18"
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE		PANELBOAR     DISTRIBUTIC     CONTACTOR	ON PANELBOARD	C N N 1	AC MEDICAL VA DX OXYGEN NO MA MEDICAL CO N NITROGEN	CUUM IDE MPRESSED AIR	E <sub>P</sub> DS SS D <sub>B</sub>	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER)			UCTWORK 18" X 18"	18" X 18" SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC	GURATION	PANELBOAR     DISTRIBUTIC     CONTACTOR	DN PANELBOARD	C N N 1 	AC MEDICAL VA DX OXYGEN NO MA MEDICAL CO	DUUM IDE MPRESSED AIR TLET	E <sub>P</sub> DS SS €D <sub>B</sub> H€D <sub>B</sub>	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED			UCTWORK 18" X 18"	SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED	GURATION	PANELBOAR    DISTRIBUTIC    CONTACTOR    AUTOMATIC    PC    PHOTOCELL    J	ON PANELBOARD TRANSFER SWITCH BOX	C N 	AC MEDICAL VA DX ON OXYGEN NO MA MEDICAL CO NA NITROUS OX MA NITROGEN NO OXYGEN OU VACUUM OU MEDICAL AIF	DUUM IDE MPRESSED AIR TLET TLET OUTLET	$E_P$ DS SS $\mathbb{O}_B$ $\mathbb{O}_B$ $\mathbb{O}_Z$ $\mathbb{B}$	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT		TURNING	UCTWORK 18" X 18" SUPPLY UP	SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC	GURATION	PANELBOAR DISTRIBUTIC CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL	ON PANELBOARD TRANSFER SWITCH BOX	C N N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	AC MEDICAL VA DX ON OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) VACUUM OU (A) MEDICAL AIF (N) NITROUS OX	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET	E <sub>P</sub> DS SS ••••B B	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER)			UCTWORK 18" X 18" SUPPLY UP 18" X 18"	SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE	GURATION	PANELBOAR    DISTRIBUTION    CONTACTOR    AUTOMATIC    PC    PHOTOCELL    J    JUNCTION    PUSHBUTTO	ON PANELBOARD TRANSFER SWITCH BOX	C N N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	AC MEDICAL VA DX ON OXYGEN NO MA MEDICAL CO NA NITROUS OX MA NITROGEN NO OXYGEN OU VACUUM OU MEDICAL AIF	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET	$E_{P}$ $DS$ $SS$ $\Phi_{B}$ $\Phi_{Z}$ $B$	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT		TURNING	UCTWORK 18" X 18" SUPPLY UP 18" X 18"	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18"
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY	DX C	PANELBOAR DISTRIBUTIO CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM	ON PANELBOARD TRANSFER SWITCH BOX ON IER HTG	HEATING	AC MEDICAL VA DX ON OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) VACUUM OU (A) MEDICAL AIF (N) NITROUS OX	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN	DS SS $\mathbb{O}_B$ $\mathbb{O}_Z$ B	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT CODE BLUE PUSHBUTTON SUPPLY DIFFUSER, SMOKE DAMPER	2408, SD-1	TURNING VANES RNING VES 2408, SD-1 450, CEM	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12'	SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING	DX D EA E	PANELBOAR DISTRIBUTIO DISTRIBUTIO CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM	ON PANELBOARD TRANSFER SWITCH BOX ON	HEATING HEATER	AC MEDICAL VA DX OXYGEN NO MA NITROUS OX MA MEDICAL CO N NITROGEN (N OXYGEN OU (N O	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE	DS SS D <sub>B</sub> HD <sub>B</sub> D <sub>Z</sub> B SD SDCW	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT CODE BLUE PUSHBUTTON SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER			UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12'	SUPPLY DN.
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY	DX D EA E EAT E	PANELBOAR DISTRIBUTIO CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM	DN PANELBOARD TRANSFER SWITCH BOX DN MER HTG HTR HVU	HEATING HEATER HEATING AND VENTILATING	AC MEDICAL VA DX OXYGEN NO MA NITROUS OX MA MEDICAL CO N NITROGEN (N OXYGEN OU (N O	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN	DS SS $\mathbb{O}_B$ $\mathbb{O}_Z$ B	('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT – CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT – WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT CODE BLUE PUSHBUTTON SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER	2408, SD-1 450 CFM	2408, SD-1 $450 CFM$ $3-WAY$ $24 = SIZE OF DIFFUSEI$ $08 = THROAT$	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12'	SUPPLY DN. 18" X 18" 18" X 18" 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE	DX D EA E EAT E EC E EF E	PANELBOAR DISTRIBUTION CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E POSHBUTTO T TRANSFORM CALLECT EXPANSION CXHAUST AIR INTERING AIR TEMPERATURE CLECTRICAL CONTRACTOR, EMPTY CHECK	DN PANELBOARD TRANSFER SWITCH BOX DN MER HTG HTR HVU ONDUIT HW HWR	HEATING HEATING HEATER HEATING AND VENTILATING DOMESTIC HOT WATER HOT WATER RETURN	AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU	IDE MPRESSED AIR TLET TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED	DS SS DB HDB DZ B SD SDCW SDHW SDRHW SDRHW	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED ('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED ('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> </ul>	2408, SD-1 450 CFM	2408, SD-1 $450 CFM$ $3-WAY$ $24 = SIZE OF DIFFUSEI$ $08 = THROAT$	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12'	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION
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	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN	DX D EA E EAT E EC E EF E EM IN EPO E ER E	PANELBOAR DISTRIBUTIO CONTACTOR CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM DIRECT EXPANSION XHAUST AIR INTERING AIR TEMPERATURE CLECTRICAL CONTRACTOR, EMPTY CH XHAUST FAN NDICATES EMERGENCY CIRCUIT MERGENCY POWER OFF XHAUST REGISTER	ON PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG	HEATING HEATING HEATER HEATING AND VENTILATING DOMESTIC HOT WATER HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY INVERT ELEVATION ISOLATED GROUND	AC MEDICAL VA DX OXYGEN NO MA NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT	DS SS DB HDB DZ B SD SDCW SDHW SDRHW SDRHW SF SP SR ST	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> </ul>	2408, SD-1 450 CFM	2408, SD-1 $450 CFM$ $3-WAY$ $450 CFM$ $450 CFM$ $3-WAY$ $450 CFM$	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12'	SUPPLY DN. 18" X 18" 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER	DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E	PANELBOAR DISTRIBUTION CONTACTOR CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PO PHOTOCELL J JUNCTION E PO PHOTOCELL J JUNCTION E PO PHOTOCELL J JUNCTION E PO PHOTOCELL J TRANSFORM DIRECT EXPANSION CALLED TRANSFORM CALLED TRANSFORM C	DN PANELBOARD TRANSFER SWITCH BOX DN MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL	HEATING HEATING HEATER HEATER HEATING AND VENTILATING DOMESTIC HOT WATER HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY INVERT ELEVATION ISOLATED GROUND 1000 CIRCULAR MILS	AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT	DS SS DB HDB DZ B SD SDCW SDHW SDRHW SDRHW SF SP SR ST ST/O	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SQUARE FEET STATIC PRESSURE SUPPLY REGISTER STORM STORM OVERFLOW	2408, SD-1 450 CFM	2408, SD-1 $450 CFM$ $24 = SIZE OF DIFFUSEI$ $3-WAY$ $450 CFM$	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10'	SUPPLY DN. 18" X 18" 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT
	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN	DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E EWB E	PANELBOAR DISTRIBUTIO CONTACTOR CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM DIRECT EXPANSION XHAUST AIR INTERING AIR TEMPERATURE CLECTRICAL CONTRACTOR, EMPTY CH XHAUST FAN NDICATES EMERGENCY CIRCUIT MERGENCY POWER OFF XHAUST REGISTER	ON PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG		AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT	DS SS DB HDB DZ B SD SDCW SDHW SDRHW SDRHW SF SP SR ST	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> </ul>	2408, SD-1 450 CFM	Z408, SD-1 450 CFM 3-WAY 24" X 10" 24" X 8" SR-1 300 CFM UP NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10'	SUPPLY DN. 18" X 18" 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF PIPE	DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E EWB E EWC E EWH E	PANELBOAR DISTRIBUTIO CONTACTOR CONTACTOR CONTACTOR CONTACTOR AUTOMATIC PC PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM NUICATES EMERGENCY CIRCUIT CATES EMERGENCY CIRCUIT CATES E	ON PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA		AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU	IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN	DS SS DB HDB DZ B SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SQUARE FEET STATIC PRESSURE SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT	Z408, SD-1 450 CFM	Z408, SD-1 450 CFM 3-WAY 24 = SIZE OF DIFFUSEI 08 = THROAT 24" X 10" 24" X 8" SR-1 300 CFM TURN UP ERED AIR EXAMPLE EXAMPLE TURN DOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10' 18" 24" X 10' 18" 10' 10' 10' 10' 10' 10' 10' 10'	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT	DX D EA E EAT E EAT E EF E EM IN EPO E ER E ETR E EWB E EWC E EWH E EXH E	PANELBOAR DISTRIBUTION CONTACTOR CONTACTOR AUTOMATIC PI PHOTOCELL J JUNCTION E PUSHBUTTO T TRANSFORM CALECTRICAL CONTRACTOR, EMPTY CO CALAUST FAN NDICATES EMERGENCY CIRCUIT CALECTRICAL CONTRACTOR, EMPTY CO CALECTRICAL CONTRACTOR, EMPTY CO CALECTRIC WATER COOLER	DN PANELBOARD TRANSFER SWITCH BOX DN MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA	HEATING HEATING HEATER HEATER HEATER HEATING AND VENTILATING DOMESTIC HOT WATER HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY INVERT ELEVATION ISOLATED GROUND 1000 CIRCULAR MILS KILOVOLT KILOVOLT AMPS KILOWATT KILOWATT HOUR	AC MEDICAL VA DX OXYGEN NO MA MEDICAL CO NA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU (X) VACUUM OU (A) MEDICAL AIF (NO NITROUS OX (N) NITROGEN OX MUAF MV UNIT N N/A N/C N/O NF NIC NL NO OA OX	IDE MPRESSED AIR TLET TLET TLET TUTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR	DS SS DB DB DZ B SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> <li>STORM OVERFLOW</li> <li>LOW PRESSURE STEAM</li> <li>SWITCHBOARD</li> </ul>	Z408, SD-1 450 CFM	TURN UP TURN $24^{"} \times 10^{"}$ $24^{"} \times 8^{"} SR-1$ 300 CFM 24 = SIZE OF DIFFUSEI $24 = SIZE OF DIFFUSEI08 = THROAT24^{"} \times 10^{"}1 = 11 = 11 = 124^{"} \times 8^{"} SR-1300 CFMTURN1 = 1$	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10' FLEXIBLE DUCT	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) DAMPER IN DUCTWORK WIT
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIC AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT	DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E EWB E EWC E EWH E EWH E EXH E F/S C FACP F	PANELBOAR DISTRIBUTION CONTACTOR CONTACTOR CONTACTOR PHOTOCELL U JUNCTION F PHOTOCELL U JUNCTION F PUSHBUTTO T TRANSFORM CALECT EXPANSION CXHAUST AIR CONTRACTOR, EMPTY CALE CALECTRICAL CONTRACTOR, EMPTY CALE CALECTRICAL CALECTRICAL CALE CALECTRICAL CALE CALECTRICAL CALECTRICAL CALE CALECTRICAL CALECTRICAL CALE CALECTRICAL CALECTRICAL CALECTR	AN PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA MLL HTR. KW KWH	<ul> <li>— C</li> <li>— N</li> <li>— N</li></ul>	AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) OXYGEN OU (X) VACUUM OU (A) MEDICAL AIF (NO NITROUS OX (N) NITROGEN OX MUAF MV UNIT N N/A N/C N/O NF NIC NL NO OX PD PH	CUUM IDE MPRESSED AIR ILET ILET ILET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE	DS SS DB HDB DZ B SD SDCW SDHW SDRHW SDRHW SDRHW SF SP SR ST ST/O STM SWBD TSTAT TU	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> <li>STORM OVERFLOW</li> <li>LOW PRESSURE STEAM</li> <li>SWITCHBOARD</li> <li>THERMOSTAT</li> <li>TERMINAL UNIT</li> <li>TEMPERED WATER</li> <li>UNIT HEATER</li> </ul>	Z408, SD-1 450 CFM	Z408, SD-1 450 CFM 3-WAY 24" X 10" 24" X 10" 24" X 8" SR-1 300 CFM 24" X 8" SR-1 300 CFM 24" X 10" 24" X 8" SR-1 300 CFM TURN UP ERED AIR 30X FPVAV-01 CAPPED CAPPED	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10' 24" X 10' 18" 10' 10' 10' 10' 10' 10' 10' 10'	SUPPLY DN.         18" X 18"         RETURN DN.         18" X 18"         18" X 10"         ONE SIDE TRANSITION         "         14" X 10"         CENTER TRANSIT         RISE OR DROP         IN DUCTWORK         (IN DIRECTION OF AIRFLOW)         DAMPER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT	DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E EWB E EWC E EWH E EWH E EXH E F/S C FACP F	PANELBOAR   DISTRIBUTION   CONTACTOR   AUTOMATIC   P   AUTOMATIC   P   PHOTOCELL   J   JUNCTION F   P   PUSHBUTTO   T   TRANSFORM   OIRECT EXPANSION XHAUST AIR INTERING AIR TEMPERATURE CLECTRICAL CONTRACTOR, EMPTY CONTRACTOR, EMP	AN PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA MLL HTR. KW KWH		AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN (X) OXYGEN OU (X) VACUUM OU (A) MEDICAL AIF (M) NITROUS OX (N) NITROGEN O (N) NITROGEN O MUAF MV UNIT N N/A N/C N/O NF NIC NL NO OA ORD OX	CUUM IDE MPRESSED AIR ILET TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE	DS SS DB T DB SD DZ B SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SQUARE FEET STATIC PRESSURE SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT TERMINAL UNIT TEMPERED WATER UNIT HEATER UNDERWRITERS LABORATORIES INC.	Z408, SD-1 450 CFM	Z408, SD-1 450 CFM     Z4 = SIZE OF DIFFUSEI       Z408, SD-1 450 CFM     Z4 = SIZE OF DIFFUSEI       Z4" X 10"     Z4 = THROAT       Z4" X 10"     Z4" X 8" SR-1       Z4" X 10"     Z4" X 8" SR-1       Z4" X 10"     Z4" X 8" SR-1       Z4" X 10"     Z4" X 10"	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 10" 24" X 10" 24" X 10" FLEXIBLE DUCT CONNECTION ACCE	SUPPLY DN. 18" X 18" 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) ESS DOM OF DUCT
A A A A A A C A D A F C A F G A H U A F F B D B F P	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM	DX DX D EA E EAT E EC E EF E EM IN EPO E ER E ETR E EWB E EWC E EWH E EWH E EXH E F/S C FACP F FAACP F	PANELBOAR         DISTRIBUTION         CONTACTOR         CONTACTOR         AUTOMATIC         PI         PHOTOCELL         JUNCTION E         PI         PHOTOCELL         JUNCTION E         PI         PHOTOCELL         JUNCTION E         PI         PUSHBUTCO         TRANSFORM         XHAUST AIR         INTERING AIR TEMPERATURE         CLECTRICAL CONTRACTOR, EMPTY CHE         XHAUST FAN         NDICATES EMERGENCY CIRCUIT         IMERGENCY POWER OFF         XHAUST REGISTER         XISTING TO REMAIN         INTERING WET BULB         ILECTRIC WATER HEATER, ELEC. WA         ILECTRIC WATER HEATER, ELEC. WA         XHAUST         COMBINATION FIRE AND SMOKE DAM         IRE ALARM CONTROL PANEL	AN PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA SLL HTR. KW KVA		AC MEDICAL VA DX OXYGEN NO MA MEDICAL CO NA MEDICAL CO NA MEDICAL CO N VACUUM OU A MEDICAL AIF MO NITROUS OX NITROGEN C MUAF MV UNIT N N/A N/C N/O NF NIC NC NC NC NC NC NC NC NC NC N	CUUM IDE MPRESSED AIR ILET TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE	DS SS DB HDB DZ B SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> <li>STORM OVERFLOW</li> <li>LOW PRESSURE STEAM</li> <li>SWITCHBOARD</li> <li>THERMOSTAT</li> <li>TERMINAL UNIT</li> <li>TEMPERED WATER</li> <li>UNIT HEATER</li> <li>UNDERWRITERS LABORATORIES INC.</li> <li>UNNERSUPTIBLE POWER SUPPLY</li> </ul>	2408, SD-1 450 CFM	2408, SD-1 450 CFM 3-WAY 24 = SIZE OF DIFFUSED 08 = THROAT 24" X 10" 24" X 8" SR-1 300 CFM 24" X 8" SR-1 300 CFM TURN UP NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS ERED AIR 30X FPVAV-01 DAMPER TURNSITION TURNSITION TURNSITION CAPPED CAPPED	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 10" 24" X 10" 24" X 10" CONNECTION ACCE DOOL	SUPPLY DN.         18" X 18"         RETURN DN.         18" X 18"         18" X 10"         ONE SIDE TRANSITION         "14" X 10"         CENTER TRANSIT         Rise OR DROP         IN DUCTWORK         (IN DIRECTION OF AIRFLOW)         DAMPER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT         RS         -ACCESS
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■	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BRE AKER BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER SUPPLY CIRCUIT	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         ETR       E         EWB       E         EWC       E         EWH       E         EXH       E         FACP       F         FACP       F         FACP       F         FACP       F         FLA       F         FLA       F         FLA       F         FOR       F	DISTRIBUTION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR PHOTOCELL OU PHOTOCELL OU PHOTOCELL OU PUSHBUTTO T TRANSFORM CALCENTICAL CONTRACTOR, EMPTY CONT CALCENTICAL CONTROL CALCENTICAL CALCENTICAL CONTROL CALCENTICAL CALCENTICAL	AN PANELBOARD TRANSFER SWITCH BOX N MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA KVA KVA LDB LPANEL LP LRA LV LWB LWT MA		AC MEDICAL VA DX O OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN NO NO NO NO NO NO NO NITROUS OX NO NO NO NO NO NA N/A N/C N/O NF NIC NC NC NC NC NC NC NC NC NC N	CUUM IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION	DS SS ●B ●DB ●DZ DZ B SD SDCW SDHW SDRHW SDRHW SDRHW SDRHW SF SP SR ST ST/O STM SWBD TSTAT TU TW UH UL UNO UPS V VAC	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> <li>STORM OVERFLOW</li> <li>LOW PRESSURE STEAM</li> <li>SWITCHBOARD</li> <li>THERMOSTAT</li> <li>TERMINAL UNIT</li> <li>TEMPERED WATER</li> <li>UNIT HEATER</li> <li>UNIT HEATER</li> <li>UNINTERRUPTIBLE POWER SUPPLY</li> <li>VENT PIPE</li> <li>WEDICAL VACUUM</li> <li>VARIABLE AIR VOLUME</li> <li>VARIABLE AIR VOLUME</li> <li>48 = LENC</li> <li>08 = INLET</li> </ul>	Z408, SD-1 450 CFM	2408, SD-1 450 CFM 450 CFM 3-WAY 24 = SIZE OF DIFFUSED 08 = THROAT 24" X 10" 24" X 8" SR-1 300 CFM 24" X 8" SR-1 300 CFM 1000	UCTWORK 18" X 18" SUPPLY UP 18" X 18" RETURN UP 18" X 18" 24" X 12' 24" X 10' 24" X 10' 24" X 10' 24" X 10' 12"X12" = THROAT SD-3 300 CFM 12"X12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) CENTER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT RS FD F/S SD MD
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■	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER SUPPLY CIRCUIT CLEANOUT, CARBON MONOXIDE CARBON DIOXIDE COOLING TOWER RETURN	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         EWB       E         EWB       E         EWH       E         EWH       E         FACP       F         FOO       F         FCO       F         FCO       F         FD       F         FOR       F         FOR       F         FOS       F         FPB       F	DISTRIBUTION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR PHOTOCELL CONTION F PHOTOCELL CONTION F PUSHBUTTO T TRANSFORM CONTROL FAN NDICATES EMERGENCY CIRCUIT CONTRACTOR, EMPTY CONTRACTOR, E	AN PANELBOARD TRANSFER SWITCH BOX ON MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA KVA KVA LDB LPANEL LP LRA LV LWB LWT MA MAU		AC MEDICAL VA DX O OXYGEN NO NITROUS OX MA MEDICAL CO N MEDICAL CO N NITROGEN OXYGEN OU VACUUM OU A MEDICAL AIR NO NITROUS OX NITROGEN C MUAF MV UNIT N N/A N/C N/O NF NIC NL NO OA ORD OX PD PH PIV PNL PRV QTY TURE RA RD REV RG RH	CUUM IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION RETURN GRILLE RELATIVE HUMIDITY DOMESTIC RECIRCULATION HOT WA	DS SS ●B ●DB ●DZ B SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SQUARE FEET STATIC PRESSURE SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT TERMINAL UNIT TEMPERED WATER UNIT HEATER UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY VENT PIPE VENT PIPE MIGH VARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE AIR VOLUME VENT THROUGH ROOF SD-2 = TO WIRE, WATT(S) WITH	Z408, SD-1 450 CFM	2408, SD-1 450 CFM 3-WAY 24" X 10" 24" X 10" 24" X 8" SR-1 300 CFM 24" X 8" SR-1 300 CFM 24" X 10" 24" X 8" SR-1 300 CFM 24" X 10" 24" X 8" SR-1 300 CFM 24" X 10" 24" X 10" 24" X 8" SR-1 300 CFM 24" X 10" 24" X 10" 24" X 10" 24" X 10" 24" X 10" 24" X 10" 24" X 8" SR-1 300 CFM 24" X 10" 24" X 10"	UCTWORK 18" $\times$ 18" SUPPLY UP 18" $\times$ 18" RETURN UP 18" $\times$ 18" 24" $\times$ 12" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 12" $\times$ 12" SD-3 300 CFM 12" $\times$ 12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) CENTER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT RS FD F/S SD MD
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<ul> <li>↓</li> <li>↓</li></ul>	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER SUPPLY CIRCUIT CLEANOUT, CARBON MONOXIDE CARBON DIOXIDE COOLING TOWER SUPPLY COPPER, CONDENSING UNIT CABINET UNIT HEATER DOMESTIC COLD WATER	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         EWB       E         EWR       E         EWR       E         EWR       E         EWR       E         EWR       E         EWR       E         F/S       O         FACP       F         FACP       F         FACP       F         FACP       F         FACP       F         FON       F         FCU       F         FD       F         FLA       F         FON       F         FON       F         FON       F         FON       F         FPB       F         FN       F         G       G         GCO       G	DIRECT EXPANSION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTOCELL CONTACTOR PUSHBUTC CONTRACTOR CON	AN PANELBOARD TRANSFER SWITCH BOX N MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA KVA KUIL HTR. KW KVA LDB LPANEL LP LRA LV LWB LWT MA MAU MDP MCA	<ul> <li>— O</li> <li>— N</li> <li>— N</li></ul>	AC MEDICAL VA DX O OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN NO NO NO NO NO NO NO NO NITROGEN NO NO NO NO NO NO NO NO NO N	CUUM IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION RETURN GRILLE RELATIVE HUMIDITY DOMESTIC RECIRCULATION HOT WA REFRIGERANT LIQUID RUNNING LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT SUCTION	DS SS ● B	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> <li>SUPPLY DIFFUSER, SMOKE DAMPER</li> <li>SOFT DOMESTIC COLD WATER</li> <li>SOFT DOMESTIC HOT WATER</li> <li>SOFT DOMESTIC RECIRCULATION HOT WATER</li> <li>SQUARE FEET</li> <li>STATIC PRESSURE</li> <li>SUPPLY REGISTER</li> <li>STORM</li> <li>STORM OVERFLOW</li> <li>LOW PRESSURE STEAM</li> <li>SWITCHBOARD</li> <li>THERMOSTAT</li> <li>TERMINAL UNIT</li> <li>TEMPERED WATER</li> <li>UNIT HEATER</li> <li>UNDERWRITERS LABORATORIES INC.</li> <li>UNINTERRUPTIBLE POWER SUPPLY</li> <li>VENT PIPE</li> <li>MEDICAL VACUUM</li> <li>VARIABLE AIR VOLUME</li> <li>VARIABLE AIR VOLUME</li> <li>VENT THROUGH ROOF</li> <li>SD-2 = TO</li> <li>WIRE, WATT(S)</li> <li>WITH</li> <li>WITHOUT</li> <li>WET BULB</li> <li>WALL CLEANOUT</li> <li>WALL HYDRANT</li> </ul>	Z408, SD-1 450 CFM	2408, SD-1 450 CFM       24 = SIZE OF DIFFUSEI         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 8" SR-1 300 CFM       100 CFM         TURN UP       NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         UP       UNCT: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         AIR 30X       FPVAV-01 DAMPER         END OF DUCT       END OF DUCT CAPPED         VANUAL DAMPER       END OF DUCT         240 CFM SD-1       2408 SD-1 SD-1         XBOR SD-2 200 CFM RIGID DUCT       24 = SIZE OF DIFFUS SD-1 SD-1         XBOR SD-1       END OF DUCT         24 = SIZE OF DIFFUS SD-1       2408 SD-1 SD-1	UCTWORK 18" $\times$ 18" SUPPLY UP 18" $\times$ 18" RETURN UP 18" $\times$ 18" 24" $\times$ 12" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 12" $\times$ 12" SD-3 300 CFM 12" $\times$ 12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) CENTER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT RS FD F/S SD MD
<ul> <li>↓</li> <li>↓</li></ul>	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER SUPPLY CIRCUIT CLEANOUT, CARBON MONOXIDE CARBON DIOXIDE COOLING TOWER SUPPLY COPPER, CONDENSING UNIT CABINET UNIT HEATER DOMESTIC COLD WATER	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         EWB       E         EWH       E         EWH       E         EXH       E         F/S       C         FACP       F         FCO       F         FCO       F         FCO       F         FCO       F         FCO       F         FD       F         FD       F         FLA       F         FOR       F         FOR       F         FD       F         FD       F         FD       F         FOR       F         FPB       F         FNACP       F         FOR       F         FOR       F         FOR       F         FOR       F         FON       F         F       F         F       F         F       F	DISTRIBUTION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR PHOTOCELL JUNCTION F PUSHBUTTO T TRANSFORM OURECT EXPANSION XHAUST AIR INTERING AIR TEMPERATURE CLECTRICAL CONTRACTOR, EMPTY CONT XHAUST FAN NDICATES EMERGENCY CIRCUIT CMERGENCY POWER OFF XHAUST REGISTER XISTING TO REMAIN INTERING WET BULB CLECTRIC WATER COOLER XISTING TO REMAIN INTERING WET BULB CLECTRIC WATER COOLER ILECTRIC WATER COOLER CLECTRIC WATER COOLER CLECTRI	AN PANELBOARD TRANSFER SWITCH BOX N MER HTG HTR HVU ONDUIT HW HWR HWS IE IG KCMIL KV KVA KVA KVA KVA KUIL HTR. KW KVA LDB LPANEL LP LRA LV LWB LWT MA MAU MDP MCA		AC MEDICAL VA DX O OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN OXYGEN OU VACUUM OU A MEDICAL AIF MO NITROGEN O NITROGEN O NUAF MV UNIT N N/A N/C N/O NF NIC NC NC NC NC NC NC NC NC NC N	CUUM IDE MPRESSED AIR TLET TLET OUTLET IDE OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION RETURN GRILLE RELATIVE HUMIDITY DOMESTIC RECIRCULATION HOT WA REFRIGERANT LIQUID RUNNING LOAD AMPS REVOLUTIONS PER MINUTE	DS SS ● B	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT - CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT - WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT TERMINAL UNIT TEMPERED WATER UNIT HEATER UNIT HEATER UNINTERRUPTIBLE POWER SUPPLY VENT PIPE MEDICAL VACUUM VARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE AIR VOLUME VENT THROUGH ROOF SD-2 = TO WIRE, WATT(S) WITH WALL CLEANOUT	Z408, SD-1 450 CFM	2408, SD-1 450 CFM       24 = SIZE OF DIFFUSEI         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 8" SR-1 300 CFM       100 CFM         TURN UP       NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         UP       UNCT: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         AIR 30X       FPVAV-01 DAMPER         END OF DUCT       END OF DUCT CAPPED         VANUAL DAMPER       END OF DUCT         240 CFM SD-1       2408 SD-1 SD-1         XBOR SD-2 200 CFM RIGID DUCT       24 = SIZE OF DIFFUS SD-1 SD-1         XBOR SD-1       END OF DUCT         24 = SIZE OF DIFFUS SD-1       2408 SD-1 SD-1	UCTWORK 18" $\times$ 18" SUPPLY UP 18" $\times$ 18" RETURN UP 18" $\times$ 18" 24" $\times$ 12" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 12" $\times$ 12" SD-3 300 CFM 12" $\times$ 12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) CENTER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT RS FD F/S SD MD
<ul> <li>↓</li> <li>↓</li></ul>	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER RETURN COOLING TOWER SUPPLY COPPER, CONDENSING UNIT CABINET UNIT HEATER DOMESTIC COLD WATER CHILLED WATER RETURN CHILLED WATER RETURN CHILLED WATER SUPPLY DIRECT DIGITAL CONTROL	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         EWB       E         EWB       E         EWH       E         EWH       E         F/S       O         FACP       F         FACP       F         FQ       FO         FACP       F         FOS       F         FOR       F         FOR       F         FOR       F         FOS       F         FP       F         FP       F         G       G         GCO       G         GND       G         GPM       G	DISTRIBUTION DISTRIBUTION CONTACTOR AUTOMATIC PG PHOTOCELL J JUNCTION F PUSHBUTTO TRANSFORM DIRECT EXPANSION XHAUST AIR INTERING AIR TEMPERATURE LECTRICAL CONTRACTOR EMPTY CON XHAUST FAN NDICATES EMERGENCY CIRCUIT MERGENCY POWER OFF XHAUST FAN NDICATES EMERGENCY CIRCUIT MERGENCY POWER OFF XHAUST REGISTER XISTING TO REMAIN INTERING WET BULB LECTRIC WATER HEATER, ELEC. WA XHAUST COMBINATION FIRE AND SMOKE DAM IRE ALARM CONTROL PANEL IRE ALARM ANNUNCIATOR CONTROL LOOR CLEANOUT AN COIL UNIT IRE DAMPER, FLOOR DRAIN ULL LOAD AMPS LOOR UEL OIL RETURN UEL OIL SUPPLY IRE PROTECTION AN POWERED TERMINAL UNIT AN POW	AN PANELBOARD TRANSFER SWITCH BOX N MER ATT ONDUIT ONDUIT ONDUIT ATT ATT ATT ATT ATT ATT ATT ATT ATT A	<ul> <li>— C</li> <li>M</li> <li></li></ul>	AC MEDICAL VA DX OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN NO OXYGEN OU NO OXYGEN OU NO OXYGEN OU NO NITROUS OX NO NITROGEN OX NO NITROGEN OX NO N/O N/O NF NIC N/O NF NIC NC NC NC NC NC NC NC NC NC N	CUUM IDE MPRESSED AIR TLET TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION RETURN GRILLE RELATIVE HUMIDITY DOMESTIC RECIRCULATION HOT WA REFRIGERANT LIQUID RUNNING LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT SUCTION LOW PRESSURE CONDENSATE RET ROOF TOP UNIT SUPPLY AIR	DS SS DB DB DC DC DC DC DC DC DC DC DC SD SD SD SD SD SD SD SD SD SD SD SD SD	<pre>('P' DENOTES PULL CORD) DUTY STATION STAFF STATION DOME LIGHT - CEILING MOUNTED ('B' DENOTES WITH BUZZER) DOME LIGHT - WALL MOUNTED ('B' DENOTES WITH BUZZER) ZONE DOME LIGHT CODE BLUE PUSHBUTTON SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC COLD WATER SOFT DOMESTIC RECIRCULATION HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SQUARE FEET STATIC PRESSURE SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT TERMINAL UNIT TEMPERED WATER UNIT HEATER UNDERWRITERS LABORATORIES INC. UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VENT PIPE HIGH TAKED WARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE AIR VOLUME WATT(S) WITH WITHOUT WET BULB WALL CLEANOUT WALL HYDRANT WEATHERPROOF</pre>	Z408, SD-1 450 CFM	2408, SD-1 450 CFM       24 = SIZE OF DIFFUSEI         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 8" SR-1 300 CFM       100 CFM         TURN UP       NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         UP       UNCT: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         AIR 30X       FPVAV-01 DAMPER         END OF DUCT       END OF DUCT CAPPED         VANUAL DAMPER       END OF DUCT         240 CFM SD-1       2408 SD-1 SD-1         XBOR SD-2 200 CFM RIGID DUCT       24 = SIZE OF DIFFUS SD-1 SD-1         XBOR SD-1       END OF DUCT         24 = SIZE OF DIFFUS SD-1       2408 SD-1 SD-1	UCTWORK 18" $\times$ 18" SUPPLY UP 18" $\times$ 18" RETURN UP 18" $\times$ 18" 24" $\times$ 12" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 12" $\times$ 12" SD-3 300 CFM 12" $\times$ 12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" 18" X 18" 18" X 10" ONE SIDE TRANSITION 14" X 10" ONE SIDE TRANSIT ONE SIDE TRANSIT ONE SIDE TRANSIT CENTER TR
<ul> <li>↓</li> <li>↓</li></ul>	SINGLE RECEPTACLE CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX DIVIDED POWER POLE FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIG AS NOTED CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY AMPS, AIR (COMPRESSED) AIR CONDITIONING AREA DRAIN, ACCESS DOOR ABOVE FINISH CEILING ABOVE FINISH CEILING ABOVE FINISH GRADE AIR HANDLING UNIT ABOVE FINISHED FLOOR BACKDRAFT DAMPER, BLOWDOWN BACKFLOW PREVENTER BREAKER BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CHILLED/HOT WATER RETURN CHILLED/HOT WATER SUPPLY COPPER, CONDENSING UNIT CABING TOWER RETURN COOLING TOWER RETURN COOLING TOWER SUPPLY COPPER, CONDENSING UNIT CABINET UNIT HEATER DOMESTIC COLD WATER CHILLED WATER RETURN CHILLED WATER SUPPLY	DX       DX         EA       E         EAT       E         EC       E         EF       E         EM       II         EPO       E         EWB       E         EWC       E         EWH       E         EWC       E         EWH       E         F/S       C         FACP       F         FCO       F         FCO       F         FCO       F         FCO       F         FD       F         FD       F         FDR       F         FOR       F         FOR       F         FD       F         FD       F         FOR       F         FOR       F         FOR       F         FD       F         FOR       F         GOND       G         GND       G         GPM       G         HB       H	DIRECT EXPANSION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTOCELL CONTROCELL CONTROCELL CONTROCELL CONTROCE C	AN PANELBOARD TRANSFER SWITCH BOX N MER N MER N MU ONDUIT N M M M M M M M M M M M M M M M M M M		AC MEDICAL VA AC OXYGEN NO NITROUS OX MA MEDICAL CO N NITROGEN NO NO NO NO NO NO NO NO NO N	CUUM IDE MPRESSED AIR TLET TLET TLET OUTLET IDE OUTLET UTLET MAKE UP AIR FAN MIXING VALVE NITROGEN NOT APPLICABLE NORMALLY CLOSED NORMALLY OPEN INDICATES NON-FUSED DEVICE NOT IN CONTRACT NIGHT LIGHT NITROUS OXIDE OUTSIDE AIR OVERFLOW ROOF DRAIN OXYGEN PUMP DISCHARGE PHASE POST INDICATOR VALVE PANEL PRESSURE REDUCING VALVE QUANTITY RETURN AIR ROOF DRAIN REVISION RETURN GRILLE RELATIVE HUMIDITY DOMESTIC RECIRCULATION HOT WA REFRIGERANT LIQUID RUNNING LOAD AMPS REVOLUTIONS PER MINUTE REFRIGERANT SUCTION LOW PRESSURE CONDENSATE RET ROOF TOP UNIT SUPPLY AIR SANITARY	DS SS ●B ●C SD SD SD SD SD SD SD SD SD SD SD SD SD	<ul> <li>('P' DENOTES PULL CORD)</li> <li>DUTY STATION</li> <li>STAFF STATION</li> <li>DOME LIGHT – CEILING MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>DOME LIGHT – WALL MOUNTED</li> <li>('B' DENOTES WITH BUZZER)</li> <li>ZONE DOME LIGHT</li> <li>CODE BLUE PUSHBUTTON</li> </ul> SUPPLY DIFFUSER, SMOKE DAMPER SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT DOMESTIC RECIRCULATION HOT WATER SUPPLY REGISTER STORM STORM OVERFLOW LOW PRESSURE STEAM SWITCHBOARD THERMOSTAT TERMINAL UNIT TEMPERED WATER UNINTERRUPTIBLE POWER SUPPLY VENT PIPE WENT PIPE MEDICAL VACUUM VARIABLE AIR VOLUME VENT THROUGH ROOF SD-2 = TO WIRE, WATT(S) WITH WALL CLEANOUT WALL CLEANOUT WALL CLEANOUT WALL HYDRANT WEATHERPROOF TRANSFORMER	Z408, SD-1 450 CFM 450 CFM VARIABLE VOLUME E VOLUME E VOL	2408, SD-1 450 CFM       24 = SIZE OF DIFFUSEI         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 10"       08 = THROAT         24" X 8" SR-1 300 CFM       100 CFM         TURN UP       NOTE: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         UP       UNCT: DUCT SIZES INDICATED ARE SHEET METAL DIMENSIONS         EXAMPLE AIR 30X       TURN CAPPED         EXAMPLE AIR 30X       END OF DUCT CAPPED         AIR 30X       FPVAV-01 DAMPER         END OF DUCT       END OF DUCT CAPPED         VANUAL DAMPER       END OF DUCT         240 CFM SD-1       2408 SD-1 SD-1         XBOR SD-2 200 CFM RIGID DUCT       24 = SIZE OF DIFFUS SD-1 SD-1         XBOR SD-1       END OF DUCT         24 = SIZE OF DIFFUS SD-1       2408 SD-1 SD-1	UCTWORK 18" $\times$ 18" SUPPLY UP 18" $\times$ 18" RETURN UP 18" $\times$ 18" 24" $\times$ 12" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 24" $\times$ 10" 12" $\times$ 12" SD-3 300 CFM 12" $\times$ 12" = THROAT SD-3 = TYPE OF D	SUPPLY DN. 18" X 18" RETURN DN. 18" X 18" 18" X 18" BOTTOM OR TOP TRANSITION " 18" X 10" ONE SIDE TRANSIT " 14" X 10" CENTER TRANSIT RISE OR DROP IN DUCTWORK (IN DIRECTION OF AIRFLOW) CENTER IN DUCTWORK WIT ACCESS DOOR IN SIDE OR BOTTOM OF DUCT RS FD F/S SD MD

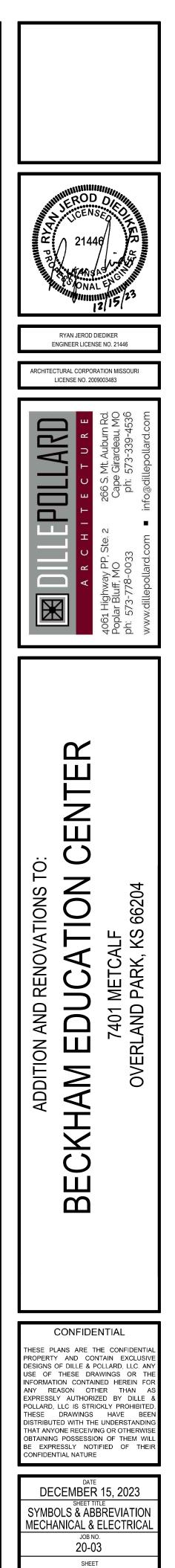
2221500 Kansas Christian College - Beckham Education Center X:\22\22215\2221500\Drawings\01-2221500\_ME1.0.dwg Bootyc Thursday, December 21, 2023 3:32:21 PM Booty Charles Thursday, December 21, 2023 3:32:21 PM

PROJECT NAME: AUTOCAD FILE LOCATION \ NAME: LAST CORRECTION BY ♦ DATE ♦ TIME: PLOTTED BY ♦ DATE ♦ TIME:

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."







**ME1.0** 

SERVICE	DUCT		OTHER REQUIREMENTS		
	SHAPE	CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	
SUPPLY AIR DUCT CONNECTED TO ROOFTOP UNITS	RECTANGULAR	2" WG POSITIVE	В	12	
SUPPLY AIR DUCTS CONNECT TO FURNACES	ROUND	4" WG POSITIVE	В	3	
	(EXPOSED)	SPIRAL SEAM			
RETURN AIR AND TRANSFER AIR BOOT	RECTANGULAR	2" WG POSITIVE	В	12 - RECTANGULAR	1/2" , 3LB DENSITY LINER
TRANSER AIR DUCTWORK	OR ROUND			3 - ROUND	
RETURN AIR DUCTS CONNECTED TO ROOFTOP UNITS	RECTANGULAR	2" WG NEGATIVE	B - RECTANGULAR	12 - RECTANGULAR	
RETURN AIR DUCTS CONNECTED TO FURNACES	OR ROUND		A - ROUND	3 - ROUND	
EXHAUST DUCTS TO THE INLET OF THE FAN	RECTANGULAR	2" WG NEGATIVE	B - RECTANGULAR	12 - RECTANGULAR	
	OR ROUND		A - ROUND	3 - ROUND	
NOTES:					

									<b>ROOFTOP UNIT SCHEDULE</b>				
EDULE		DUCT		SMACNA REQ	UIREMENTS		OTHER RE			RTU-1	RTU-2	RTU-3	
		SHAPE	CLASSIFICATIO			EAKAGE CLASS							<del>_</del>
TO ROOFTOP UN	NITS	RECTANGULAR	2" WG POSITIVE	В		12					TRANE	TRANE	
O FURNACES		ROUND	4" WG POSITIVE	В		3				YHC067E3RLA	YHC067E3RLA	YHC047E3RLA	YHC
		(EXPOSED)	SPIRAL SEAM							5	5	4	
RBOOT		RECTANGULAR	2" WG POSITIVE	В	12	- RECTANGULAR	1/2" , 3LB D	DENSITY LINER	UNIT WEIGHT (LBS.)	999	999	976	
		OR ROUND				3 - ROUND			SUPPLY AIRFLOW (CFM)	1,600	1,600	1,280	
		RECTANGULAR	2" WG NEGATIVE							380	380	241	
O TO FURNACES		OR ROUND RECTANGULAR	2" WG NEGATIVE			3 - ROUND				1.2	1.2	1.25	
		OR ROUND	2 WG NEGATIVE	E B - RECTAN A - ROL		3 - ROUND				1	1	1	
				A-100		3-100ND				DIRECT	DIRECT	DIRECT	C
HEDULE FOR RF	QUIREMENTS ON D	DUCT INSULATION							VFD	N/A	N/A	N/A	
									AMBIENT AIR (DB)	100	100	100	
									ENT. AIR (DB/WB)	81.2/67.2	81.2/67.2	79.3/65.6	83
GRILL	E. REGISTE	R & DIFFUS		ULE					님 LVG. AIR (DB/WB)	58.77/56.65	58.77/56.65	57.04/54.53	60.
					VOLUME					55	55.42	45	
PLAN MAR		R MODEL NUMBER	SERVICE	MOUNT TYPE	DAMPER	MATERIAL	COLOR	REMARKS	SENSIBLE COOLING CAPACITY (MBH)	42	42.0	33.9	
SD-1	TITUS	OMNI 24x24	SUPPLY	LAY-IN	NO	STEEL	WHITE	-	O	11	11	13	
SD-2	TITUS	OMNI 12x12	SUPPLY	LAY-IN/SURFACE	NO	STEEL	WHITE		O   O     Č   REFRIGERANT	R410-A	R410-A	R410-A	F
SD-3	TITUS	272 RL	SUPPLY	SURFACE/DUCT	YES	STEEL	WHITE	NOTE 2,3	NUMBER OF COMPRESSORS	1	1	1	
RG-1	TITUS	355 RL 24x24	RETURN	LAY-IN	NO	STEEL	WHITE	NOTE 1,2	STAGES OF COOLING	1	1	1	
EG-1	TITUS	355 FL	EXHAUST	SURFACE	YES	STEEL	WHITE	NOTE 1,2,3	MINIMUM HEATING AIRFLOW (CFM)	1,600	1,600	1,280	
NOTES:			1						ENT. AIR (DB)	48	48	54.6	
		OLES WHEN USED IN ( OR CEILING MOUNTEI								76.5	76.4	90.3	
		ALANCING DAMPER.	J APPLICATIONS AI	ND PAINTABLE FINK		IOUNTED APPLICAT	IIUNS.						
										60	60	60	
	_								HEATING OUTPUT (MBH)	49.0	49.0	49.0	
JCTWOR	( INSULATI	ION SCHEDL	JLE						STAGES / MODULATION	1	1	1	
VICE			INSULATIO	N						2" PLEATED	2" PLEATED	2" PLEATED	2" F
CEALED DUCTW	ORK AS FOLLOWS:	:								MERV 8	MERV 8	MERV 8	N
PLY AIR (ROUND	AND SQUARE)		1/2", 1 LB.	RIGID FIBERGLASS	BLANKET, BAP	POR BARRIER FACI	ED,			-	-	-	
AUST AIR (ROUNI	D AND SQUARE)		WITH HEAV	Y DUTY FOIL-SCRIN	M-KRAFT FACING	Э.			POWERED/BAROMETRIC	BAROMETRIC	BAROMETRIC	BAROMETRIC	BAR
										-	-	-	
									EXTERNAL STATIC PRESSURE (IN.W.C.)	-	-	-	
ES:										-	-	-	
DUCTWORK SCI	HEDULE FOR TIEMS	S THAT ARE TO BE LIN	IED.						VFD	-	-	-	
									CONTROL SEQUENCE	-	-	-	
	ſ	PIPE INSULA	TION SCH	EDULE - H	/AC				VOLTAGE/PHASE	208/3	208/3	208/3	
	- F	SERVICE				INSULATION				33	33	30	
	-									45	45	40	
CONDENSATE DRAIN1/2" - 2"1/2" FIBERGLASS, ASJREFRIGERANT SUCTION					-	1/2 FIBERGLAS	55, ASJ			LP1-44,46,48	LP1-50,52,54	LP1-56,58,60	LP1
				AI	L	3/4" FLEXIBLE C		ASTOMERIC	U WIRE & CONDUIT	(3)#6,#10G.,3.4"C.	(3)#6,#10G.,3.4"C.	(3)#8,#10G.,3.4"C.	(3)#6,#
	REFRIGERANT HOT GAS       ALL       3/4" FLEXIBLE CLOSED CELL ELASTOMERIC				_				OVERCURRENT DEVICE	NOTE 3	NOTE 3	NOTE 3	N
		REFRIGERANT	)										1 <sup>1</sup>
			)										
	l	REFRIGERANT LIQUIE NOTES: FOR ALL PIPING 2-1/2		OVIDE RIGID FOAM	INSERTS AT AL	L HANGERS AND SU	JPPORT LOCATIO	DNS.	REFERENCE DRAWING/DETAIL REMARKS	N/A 1,2,3,4,5,6	N/A 1,2,3,4,5,6	N/A 1,2,3,4,5,6	1,2

DUCTWORK INSULATION SCHEDULE				
SERVICE	INSULATION			
CONCEALED DUCTWORK AS FOLLOWS:				
SUPPLY AIR (ROUND AND SQUARE)	1/2", 1 LB. RIGID FIBERGLASS BLANKET, BAPPOR BARRIER FACED,			
EXHAUST AIR (ROUND AND SQUARE)	WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING.			

NOTES: 1: SEE DUC

PIPE INSULATION SCHEDULE - HVAC					
SERVICE	PIPE SIZE	INSULATION			
CONDENSATE DRAIN	1/2" - 2"	1/2" FIBERGLASS, ASJ			
REFRIGERANT SUCTION					
REFRIGERANT HOT GAS	ALL	3/4" FLEXIBLE CLOSED			
REFRIGERANT LIQUID					

DRAIN SCHEDULE					
MARK	MANUFACTURER/ MODEL	DESCRIPTION			
FD-1	WADE W-1100-1	CAST IRON DRAIN WITH ADJUSTABLE TOP AND 6" N WITH VANDAL RESISTANT SCREWS. PROVIDE WITH PROVENT SYSTEMS INC.			

NOTES: 1: REFER TO PLANS FOR OUTLET SIZES

2: FURNISH FLOOR DRAINS IN SECURE AREAS WITH SECURITY SCREWS.

PL	PLUMBING EXPANSION TANK SCHEDULE				
DES	IGNATION	PET-1			
	LOCATION	ADMIN			
	MANUFACTURER	THERM-X-TROL			
	MODEL. NO.	ST-12			
	MIN. TEMP. (°F)	40			
	MAX. TEMP. (°F)	140			
	LINE PRESSURE (PSIG)	80			
ΛTA	MAX. PRESSURE (PSIG)	125			
JNIT DATA	TANK SIZE (GAL)	4.4			
INN	ACCEPTANCE (GAL)	3.2			
	HEIGHT (IN.)	15			
	DIAMTER (IN.)	11			
	WEIGHT (LBS.)	9			
REFI	ERENCE DRAWING/DETAIL	ME3.0, P1.0			
REM	ARKS				

DC	DOMESTIC WATER HEATER - ELECTRIC						
DESI	GNATION	DWH-1					
	MANUFACTURER	A.O. SMITH					
	MODEL	DEL-20					
∢	CAPACITY (GALLONS)	20					
DAT	RECOVERY	24 GPH @ 100°F					
UNIT DATA	OUTLET TEMP. (°F)	110					
	NO. OF ELEMENTS	1					
	TOTAL INPUT (KW)	6					
	VOLTS/PHASE	208/3					
SOL	PANEL & CIRCUIT	LP1-68,70,72					
ELEC./CONTROL	WIRE & CONDUIT	(3)#10,#10G.,3/4"C.					
EC./C	OVERCURRENT DEVICE	25A/3P CB					
ЕГ	DISCONNECT	VIA CIRCUIT BREAKER					
REFE	ERENCE DRAWING/DETAIL	ME3.0, P1.0					
REM	ARKS						

AME: LE LOCATION \ NAME: ECTION BY ← DATE ← TIMI ( ← DATE ← TIME: BY EIL BY CT AD

CELL ELASTOMERIC	

NICKEL BRONZE STRAINER TH PROSET TRAP GUARD BY

2: PROVIDE UNIT WITH MODULATING HOT GAS REHEAT

3: PROVIDE UNIT WITH NON-FUSED DISCONNECT SWITCH

4: PROVIDE WITH 24" FACTORY CURB FOR GROUND MOUNT INSTALLATION.

5: PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT AND REMOTE SENSOR(S) AS INDICATED ON THE PLANS. REFER TO SPECIFICAITONS FOR ADD 6: BAROMETRIC EXHAUST TO MAINTAIN BUILDING SPACE PRESSURE.

UNIT HEATER SCHEDULE - ELECTRIC DESIGNATION CUH-1 CUH-2 CORR WEST ENTRANCE CORR NORTH ENTRANCE LOCATION MOUNTING CEILING CEILING MANUFACTURER RAYWALL RAYWALL MODEL RCH SERIES RCH SERIES CFM 425 425 FAN DRIVE DIRECT DIRECT HEATER KW 5.0 5.0 VOLTAGE/PHASE 208/3 208/3 LP1-73,75,77 PANEL & CIRCUIT LP1-79,81,82 (3)#12,#1G., 1/2"C (3)#12,#1G., 1/2"C WIRE & CONDUIT 20A/3P OVERCURRENT DEVICE 20A/3P DISCONNECT INTEGRAL INTEGRAL T-STAT T-STAT CONTROL FERENCE DRAWING/DETAIL M1.0 M1.0 1

1: PROVIDE UNIT WITH MANUFACTURERS THERMOSTAT.

FA	N SCHEDULE	
DESIGNATION		EF-1
MAN	UFACTURER	СООК
MOD	EL	101 ACED
FAN	ТҮРЕ	DOWNBLAST ROOF
SERV	/ICE	RESTROOMS
WEIG	GHT (LBS)	15
	CFM	450
	STATIC PRESSURE	0.25
ATA	FAN RPM	1095
UNIT DATA	POWER (WATTS)	-
UNI	MOTOR HORSEPOWER	0.125
	DRIVE	DIRECT
	SONES / DBA	4.8
A	VOLTAGE/PHASE	120/1
DAT	PANEL & CIRCUIT	LP1-82
SOL	WIRE & CONDUIT	(2)#12,#12G.,1/2"C
NTF	OVERCURRENT DEVICE	20A/1P
00/	DISCONNECT	NOTE 2
CTRL	COMBINATION STARTER	
ELECTRL./CONTROL DATA	CONTROL	TIME CLOCK / NOTE 4
	DAMPER TYPE	BACKDRAFT
REFERENCE DRAWING/DETAIL		ME3.0, M1.0
REMARKS		NOTE 1,3

NOTES: 1: PROVIDE WITH FAN SPEED CONTROL

2: PROVIDE WITH NEMA 3R MOTOR RATED DISCONNECT SWITCH. 3: PROVIDE WITH SLOPED ROOF CURB. COORDINATE WITH ACTUALY ROOF PITCH 4: FAN SHALL RUN DURING OCCUPIED HOURS, COORDINATE WITH OWNER. PROV

7-DAY PROGRAMMABLE TIME CLOCK IN MECHANICAL ROOM.

REFERENCE DRAWING/DETAIL	1011.0	
REMARKS	1	
NOTES:		
BBOY USE LINUT MUTHING A OTHER		

RTU-4
TRANE
HC067E3RLA
5
999
1,600
386
1.2
1
DIRECT
N/A
100
83.1/68.2
60.04/57.65
57
43.0
13
R410-A
1
1
1,600
44.3
73
60
49.0
1
2" PLEATED
MERV 8
-
AROMETRIC
-
-
-
-
-
208/3
33
45
LP1-62,64,66
#6,#10G.,3.4"C.
NOTE 3
N/A
1,2,3,4,5,6

DI	TIONA	L

	RNACE SCHEDULE	
DESI	GNATION	F-1
	MANUFACTURER	TRANE
	MODEL	S9X2B040U3PSB
⊋	CFM	1280
AHU	OUTSIDE AIR CFM	124
	EXTERNAL STATIC PRES. (IN. W.G.)	1
	MOTOR HORSEPOWER	1/2 HP
	MODEL	4TXCB006DS3HCB
Ы	ENT. AIR (DB/WB)	78.8/65.9
COOLING	TOTAL COOLING CAP (MBH)	34.853
S	SENSIBLE COOLING CAP (MBH)	25.909
	STAGE OF COOLING	2
	HEATING INPUT (MBH)	40
Ű	HEATING OUTPUT (MBH)	38.4
HEATING	HEATING TEMPERATURE RISE (DB)	30
뽀	STAGES OF HEATING	2
	MINIMUM AFUE (%)	96
FILTER	FILTER TYPE	MERV 8
Ē	SIZE	
	VOLTAGE/PHASE	120 / 1
ELEC. DATA	PANEL AND CIRCUIT	LP1-78
с С	WIRE AND CONDUIT	(2)#12,#12G.,1/2"C.
ЕГЕ	OVERCURRENT DEVICE	20A/1P
	DISCONNECT	NOTE 2
REFE	RENCE DRAWING/DETAIL	M1.0
REM	ARKS	NOTE 1,3
CC	NDENSING UNIT SCHEDU	JLE
DESI	GNATION	CU-1
	MANUFACTURER	TRANE
∢	MODEL NO.	4TTR6036N
DAT	NOMINAL TONNAGE	3
UNIT DATA	MINIMUM S.E.E.R. @ AHRI	16
	AMBIENT AIR TEMP (°F)	100
	NO COMPRESSORS / STAGES	1 / 2
	VOLTAGE/PHASE	208/1
ELEC DATA	МСА	18.4
	МОСР	30
	PANEL AND CIRCUIT	LP1-74,76
	WIRE AND CONDUIT	(2)#10,#10G.,3/4"C.
	OVERCURRENT DEVICE	30A/2P
	DISCONNECT	30A/NF/2P/3R
REFE	RENCE DRAWING/DETAIL	ME3.0, M1.0

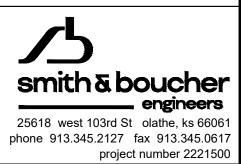
1: PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE POLYPROPELENE INTAKE AND FLUE PIPING WITH CONCENTRIC THRU THE ROOF TERMINATION. SIZE, ROUTE, AND SLOPE AS REQUIRED BY MANUFACTURER. INSULATE ALL INTAKE AND FLUE PIPING AS REQUIRED BY MANUFACTURER.

2: PROVIDE MOTOR RATED TOGGLE SWITCH.

3: PROVIDE WITH 7-DAY PROGRAMMABLE, TOUCH SCREEN THERMOSTAT.

DES	IGNATION	DHWP-1
	LOCATION	MECH ROOM
	MANUFACTURER	BELL & GOSSETT
	MODEL NO.	NBF-36
	SERVICE	DOMESTIC HOT WATER
	PUMP TYPE	INLINE
	GPM	2
	PUMP HEAD (FT.)	20
	MOTOR HORSEPOWER	1/6
	MOTOR RPM	1725
	VOLTAGE/PHASE	120/1
٨TA	PANEL & CIRCUIT	LP1-80
D L	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.
ELEC./CONTROL DATA	OVERCURRENT DEVICE	20A/1P
NOC	DISCONNECT	NOTE 1
EC.X	STARTER	NEMA 0
ЕЦ	COMBINATION STARTER	N/A
	CONTROL	AQUASTAT
REFI	ERENCE DRAWING/DETAIL	ME3.0, P1.0
REM	ARKS	-

1: PROVIDE MOTOR RATED TOGGLE SWITCH.



	21446 DAN LEROD DIEDIKER
ADDITION AND RENOVATIONS TO: ADDITION ADD	ARCHITECTURAL CORPORATION MISSOURI
TABLE DECEMBER 15, 2023 SHEET ITLE MECHANICAL & ELECTRICAL SCHEDULES JOB NO 20-03 SHEET	<b>POLLARD</b> I T E C T U R E 266 S. Mt. Auburn Rd. Cape Girardeau, MO ph: 573-339-4536 info@dillepollard.com
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DECEMBER 15, 2023 SHEET TITLE MECHANICAL & ELECTRICAL SCHEDULES JOB NO. 20-03 SHEET	THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND CONTAIN EXCLUSIVE DESIGNS OF DILLE & POLLARD, LLC. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY DILLE & POLLARD, LLC IS STRICKLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE
~ ~ ~ ~ ~ ~	DECEMBER 15, 2023 SHEET TITLE MECHANICAL & ELECTRICAL SCHEDULES JOB NO. 20-03 SHEET

PROJECT NAME: AUTOCAD FILE LOCATION \ NAME: LAST CORRECTION BY ♦ DATE ♦ TIME: PLOTTED BY ♦ DATE ♦ TIME:

2221500 Kansas Christian College - Beckham Education Center X:\22\22215\2221500\Drawings\01-2221500\_ME2.1.dwg Jblackburn Thursday, December 21, 2023 3:33:13 PM Booty Charles Thursday, December 21, 2023 3:33:13 PM

		FITTINGS				PIP	NG CONNECTIONS		
					4				T
MARK	MFGR./MODEL	DESCRIPTION	MANUFACTURER/MODEL	DESCRIPTION	NOTE	сw	нw	SAN	VENT
NC-1	AMERICAN STANDARD	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL,	SLOAN	SENSOR ACTIVATED, EXPOSED WATER CLOSET SINGLE FLUSH VALVE,	1,5,6	1-1/4"		4"	2"
	AFWALL	WALL MOUNTED FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS,	ECOS	1.28 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM					
	2257.101	1.28 GALLON SIPHON JET FLUSHING ACTION.	8111-1.28	BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD.					
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.		PROVIDE WALL AND SPUD FLANGES.					
	CHURCH	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRATED							
	9500C	BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.							
NC-2	AMERICAN STANDARD	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED	SLOAN	SENSOR ACTIVATED, EXPOSED WATER CLOSET SINGLE FLUSH VALVE,	1,5,6	1-1/4"		4"	2"
	AFWALL	FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS, 1.28 GALLON	ECOS	1.28 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM					
	2257.101	SIPHON JET FLUSHING ACTION.	8111-1.28	BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD.					
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.		PROVIDE WALL AND SPUD FLANGES.					
	CHURCH	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRATED							
	9500C	BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.				0.44			
U-1		ADA COMPLIANT WHITE VIRTEOUS CHINA WALL HUNG URINAL, 3/4" TOP SPUD,	SLOAN	SENSOR ACTIVATED, EXPOSED URINAL FLUSH VALVE, 0.125 GPF, CHROME PLATED,	1,5,6	3/4"		2"	1-1/2"
		SIPHON JET FLUSHING ACTION. MOUNT TOP OF RIM PER ARCHITECTURAL PLANS.	ECOS	FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM BREAKER FLUSH					
	6561.017		8186-0.125	CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD.					
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.		PROVIDE SPUD FLANGES.					
L-1	AMERICAN STANDARD	ADA COMPLIANT LAVATORY: OVAL, SELF-RIMMING, COUNTERTOP, WHITE VITREOUS	SLOAN	SENSOR ACTIVATED FAUCET, 0.5 GPM, CHROME PLATED, 4" CENTERS, BATTERY	2,3,4	1/2"	1/2"	2"	1-1/2"
	AQUALYN	CHINA, FRONT OVERFLOW, 4" CENTER HOLES, GRID STAINER, TAILPIECE.	ETF-650	POWERED, BELOW DECK MANUAL MIXING VALVE.					
			LEONARD	THERMOSTATIC MIXING VALVE.					
S-1	KOHLER	ADA COMPLIANT SINK: 33"X22" 2 COMPARTMENT SINK, 6" DEEP,	CHICAGO FAUCETS	ADA COMPLIANT FAUCET: 8" SWING GOOSENECK SPOUT, LEVER HANDLES, 1.5 GPM	3,5,6	1/2"	1/2"	2"	1-1/2"
	TOCCATA K-4015	STAINLESS STEEL, SOUND DAMPENED, SELF-RIMMING, WITH STRAINER.	1100-GN	AERATOR, BRASS CONSTRUCTION, CHROME FINISH, WITH 4" CENTERS					
		PROVIDE WITH 1/2HP INSINKERATOR BADGER GARBAGE DISPOSAL.	LEONARD	THERMOSTATIC MIXING VALVE.					
S-2	DURCON	LAB SINK: 16"X12" SINGLE COMPARTMENT SINK, 8" DEEP, EPOXY RESIN STAIN AND	CHICAGO FAUCETS	DECK MOUNTED, SINGLE HOLE, 5-1/4" RIGID GOOSENECK SPOUT, CROSS HANDLES,	3,7	1/2"	1/2"	2"	1-1/2"
	U15E	CHEMICAL RESISTANT, UNDERMOUNT, CORNER DRAIN, WITH STRAINER AND PLUG. PROVIDE WITH UNDERSINK SUPPORT.	LWM1-A11-A	LABORATORY NOZZLE, CHROME FINISH.					
			LENOARD	THERMOSTATIC MIXING VALVE.					
			STRIEM	ACID NEUTRALIZATION TANK, POLYETHYLENE CONSTURCTION, 2 GALLON CAPICTIY,					
			LAB RAT LB-2	ABOVE GROUND (CABINET) INSTALLATION. PROVIDE WITH LIMESTONE MEDIA.					
DF-1	ELKAY	ADA COMPLIANT WATER FOUNTAIN: BI-LEVEL, LEFT HAND HIGH, LEFT SIDE BOTTLE			3	1/2"		1-1/2"	1-1/4"
	LZSTL8WS	FILLING STATION, FILTERED, 8 GPH, STAINLESS STEEL, CANE APRON.							<u> </u>
MB-1	GUY GRAY BIM875	ICE MAKER CONNECTION BOX, STEEL BOX AND FRAME.				1/2"			
WH-1	JAY R SMITH	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, STAINLESS				3/4"			<b> </b>
	5509QT	STEEL RECESSED BOX.							
JS-1	MUSTEE	FLOOR MOUNTED, 24" X 24" FIBERGLASS, CAST BRASS GRID DRAIN AND P-TRAP.	MUSTEE	CHROME PLATED BRASS DUAL HANDLE SINK FAUCET, TOP REINFORCING BAR,	5,6	1/2"	1/2"	3"	1-1/2"
	63M	STAINLESS STEEL WALL GAURDS, STAINLESS STEEL BUMPER GUARDS.	63.600A	PAIL HOOK. 5/8" REINFORCED RUBER HOSEWITH BRASS COUPLINGS. RUBBER					1
	63.600, 63.403, 67.2424	SPRING LOADED RUBBER MOPHOLDER.	65.700	HOSE HOLDER ON STAINLESS STEEL WALL PLATE					

NOTES:

1: REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.

2: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.

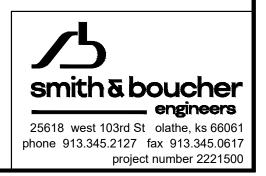
3: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.

4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.

5: PROVIDE CAULK AROUND FIXTURE CONNECTION TO FLOOR/WALL. COLOR BY ARCHITECT.

6: PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED.

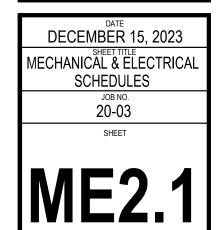
7: PROVIDE WITH ACID RESISTANT PIPE AND FITTINGS BETWEEN SINK OUTLET AND NEUTRALIZATION TANK. COORDINATE INSTALLATION AND ALL PIPING ROUGH-IN WITHIN THE BASE CABINET IN ORDER TO PROVIDE COMPLETE MAINTENANCE ACCESS TO TANK AND WATER STOPS.

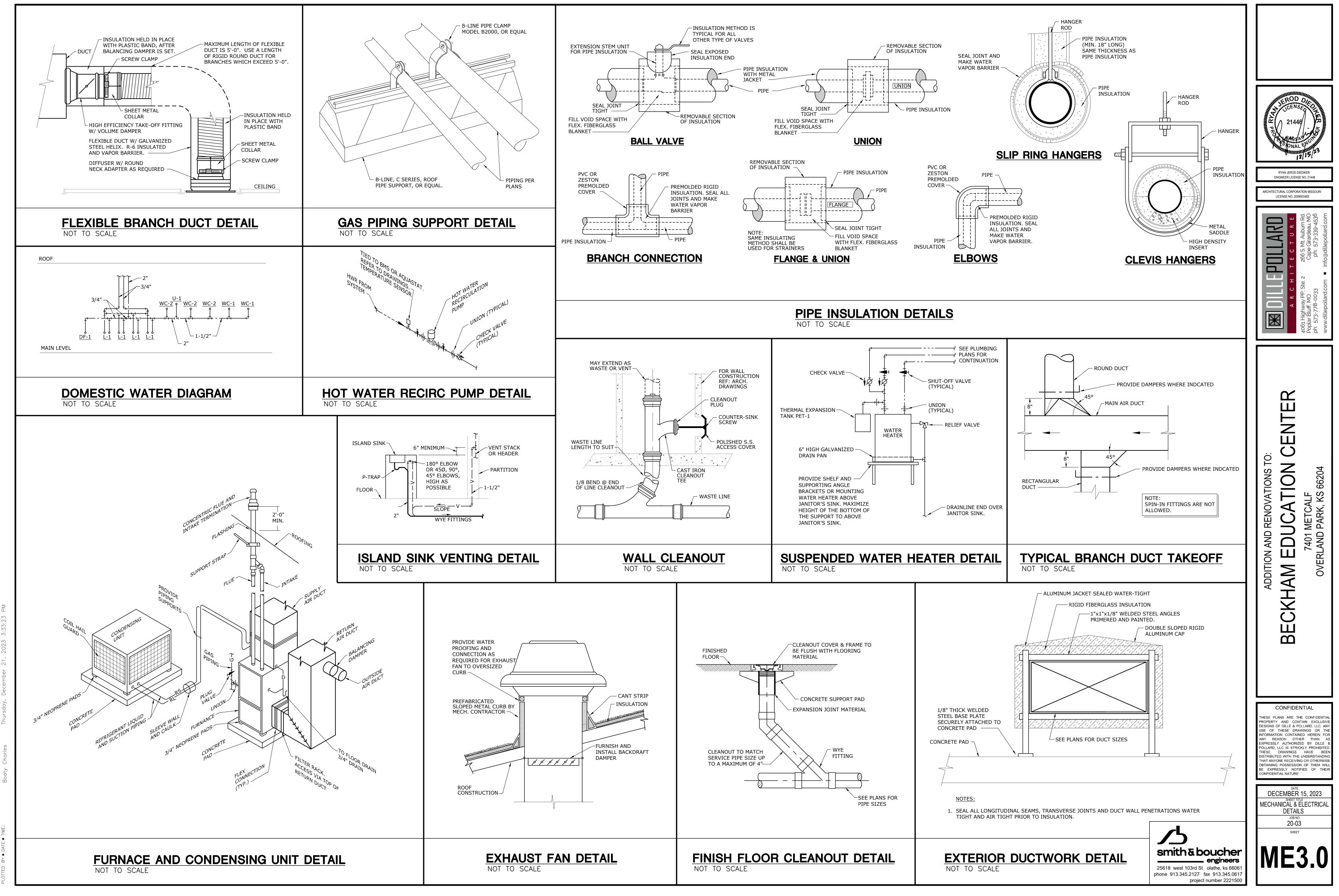


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ARCHITEC	NGINEER LICEN	ISE NO. 21446 RATION MISSOUR	1
		4061 Highway PP, Ste. 2 Poplar Bluff, MO ph: 573-778-0033 ph: 573-339-4536	www.dillepollard.com  info@dillepollard.com
ADDITION AND RENOVATIONS TO:	<b>BECKHAM EDUCATION CENTER</b>	7401 METCALF	



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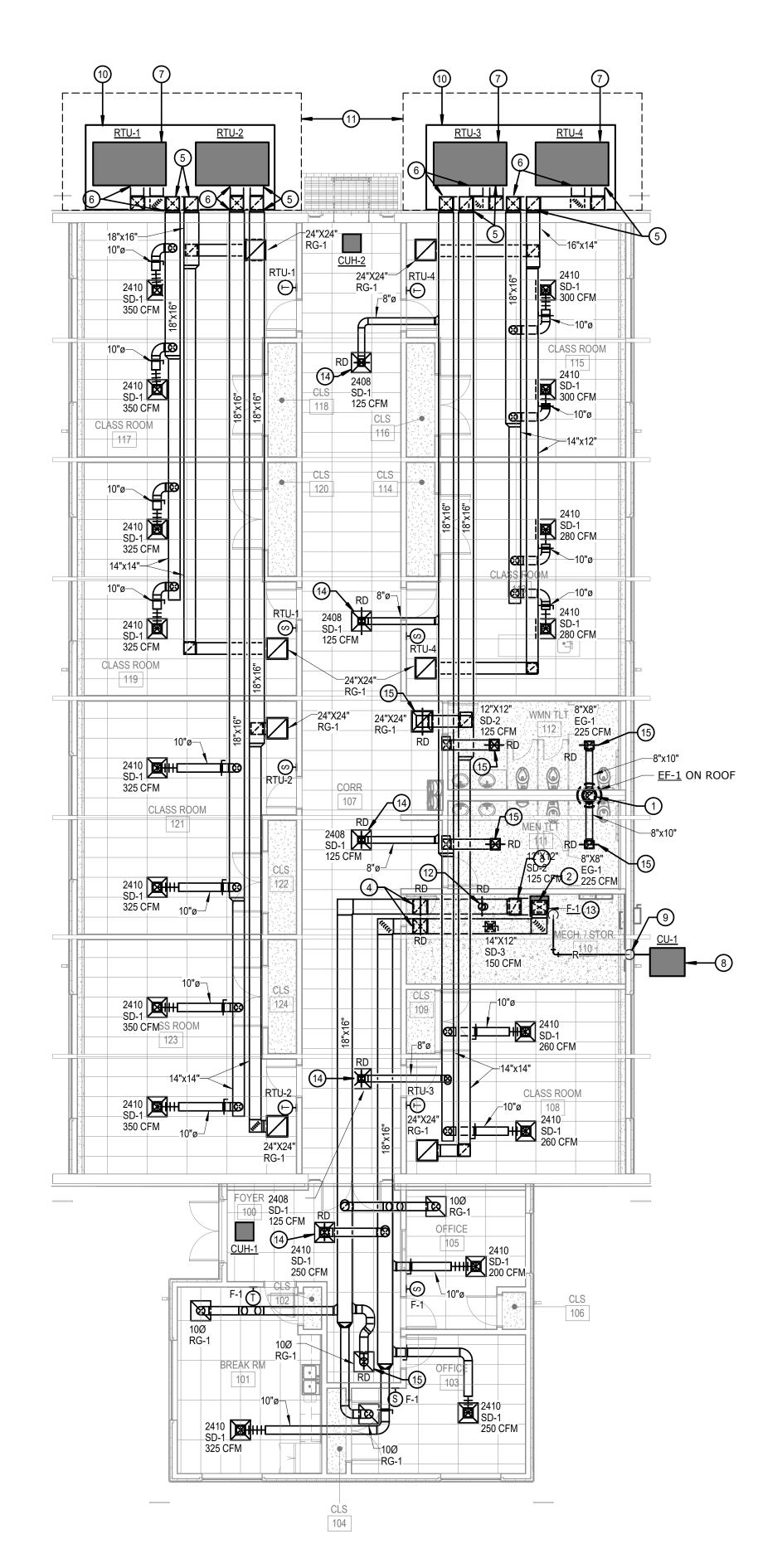




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ATION ∖ BY ♦ DAT E ♦ TIME:

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.



HVAC PLAN 1/8" = 1'-0"

**GENERAL NOTES:** 

- 1. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
- 2. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO PENETRATIONS.
- 3. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES SHALL BE INCREASE TO ACCOUNT FOR LINER.
- 4. DUCT WORK SHALL BE ROUTED THROUGH THE EXISTING ATTIC. CONTRACTOR SHALL FIELD DETERMINE EXACT CONDITIONS. TAKES OFF SHALL BE FROM BOTTOM OF DUCT, AND ROUTED THROUGH THE GYP LID TO ABOVE THE LAY-IN CEILING.
- 5. WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND TEMPERATURE SENSORS ARE SHOWN ON PLANS FOR CLARITY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOWN ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH OBSTRUCTIONS.
- 6. PROVIDE ALL REQUIRED DAMPERS AT FIRE RATED CEILINGS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.

PLAN NOTES:

- 1) 12"X12" EA DUCT UP TO EXHAUST FAN ON ROOF.
- 2 TRANSITION 20"X12" SA DOWN TO FURNACE. PROVIDE FLEXIBLE CONNECTION.
- 3 TRANSITION 20"X12" RA DOWN TO FURNACE. PROVIDE WITH FILTER RACK AND FLEXIBLE CONNECTION.
- (4) SA AND RA DUCTS DOWN FROM ATTIC SPACE INTO MECHANICAL ROOM. ROUTE HIGH AND EXPOSED TO FURNACE. PROVIDE RADIATION DAMPER AT 1-HR SEPARATION.
- 5 16"X16" RA DOWN TIGHT TO BUILDING EXTERIOR, OFFSET AS REQUIRED, AND TRANSITION TO ROOFTOP UNIT INLET. PROVIDE INSULATION PER EXTERIOR DUCTWORK DETAIL.
- 6 16"X16" SA DOWN TIGHT TO BUILDING EXTERIOR, OFFSET AS REQUIRED, AND TRANSITION TO ROOFTOP UNIT INLET. TION TO EXISTING WATER MAIN WITH CIVIL. PROVIDE INSULATION PER EXTERIOR DUCTWORK DETAIL.
- (7) GROUND MOUNT ROOFTOP UNIT ON 24" HIGH CURB. CURB SHALL BE SECURED TO CONCRETE SLAB. REFER TO NOTE 10 AND 11 FOR REQUIRED CLEARANCES.
- (8) INSTALL CONDENSING UNIT ON 4" TALL CONCRETE PAD. PAD SHALL EXTEND 6" BEYOND UNIT.
- (9) PROVIDE REFRIGERANT LINE SET BETWEEN INDOOR COIL AND OUTDOOR CONDENSING UNIT. ROUTE PIPING ABOVE IN ATTIC IF POSSIBLE, AND DOWN IN EXTERIOR WALL. SIZE PER MANUFACTURER'S REQUIREMENTS.
- (10) PROVIDE 4" TALL, REINFORCED CONCRETE PAD FOR ROOFTOP UNITS. PAD SHALL EXTEND MINIMUM 6" ON THE SIDES, 12" IN THE FRONT AND ALL THE WAY BACK TO THE BUILDING.
- 1) DASHED LINE INDICATED LIMITS OF FUTURE SCREENING BY SO AS TO MAINTAIN ALL REQUIRED CLEARANCES WITHIN FUTURE SCREENING. (12)
- 8" DIA OUTSIDE AIR DUCT UP THRU ROOF TO RAIN PROOF WEATHER CAP WITH BIRD SCREEN. PROVIDE WITH BACK DRAFT DAMPER. BALANCE TO SCHEDULED OUTSIDE AIR RATE. PROVIDE RADIATION DAMPER AT 1-HR SEPARATION.
- COORDINATE LOCATION OF FURNACE WITH ELECTRICAL PANELS AND FIRE ALARM PANEL. PROVIDE COMBUSTION AND EXHAUST AIR VENT PIPING THRU ATTIC TO CONCENTRIC VENT KIT THRU ROOF. PROVIDE PIPING AND REQUIRED SIZE PER MANUFACTURER. LOCATE TERMINATION MINIMUM 10 FEET FROM ANY BUILDING EXHAUST OR INTAKE.
- PROVIDE RADIATION DAMPER AT 1-HR SEPARATION. PROVIDE ACCESSIBLE DIFFUSER BALANCING DAMPER PRIOR TO CONNECTION TO DIFFUSER.
- (15) PROVIDE RADIATION DAMPER AT 1-HR SEPARATION.





EROD CENSA 21446 *Ι*ΟΝΔ 12/1 RYAN JEROD DIEDIKER ENGINEER LICENSE NO. 21446 ARCHITECTURAL CORPORATION MISSOUR LICENSE NO. 2009003483 ARI  $\mathbb{X}$  $\mathbf{C}$ Ζ C Ċ ATION 66204 **OVATION** KS METCA PARK, ž EDUC/ ШК AND 7401 I /ERLAND NO ADDITI

CONFIDENTIAL THESE PLANS ARE THE CONFIDENT

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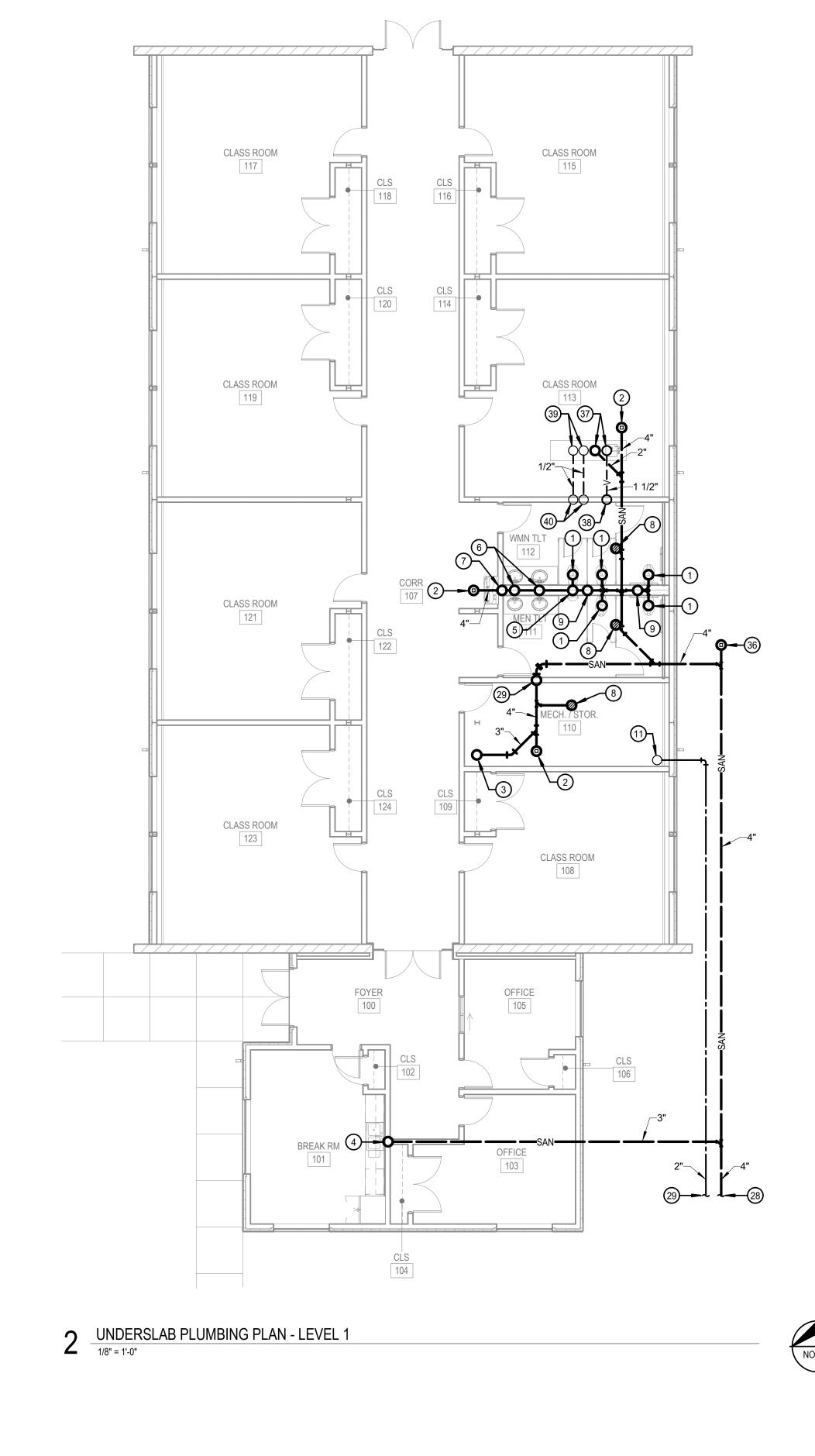
DECEMBER 15, 2023
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**GENERAL NOTES:** 

1. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EOUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.

2. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.

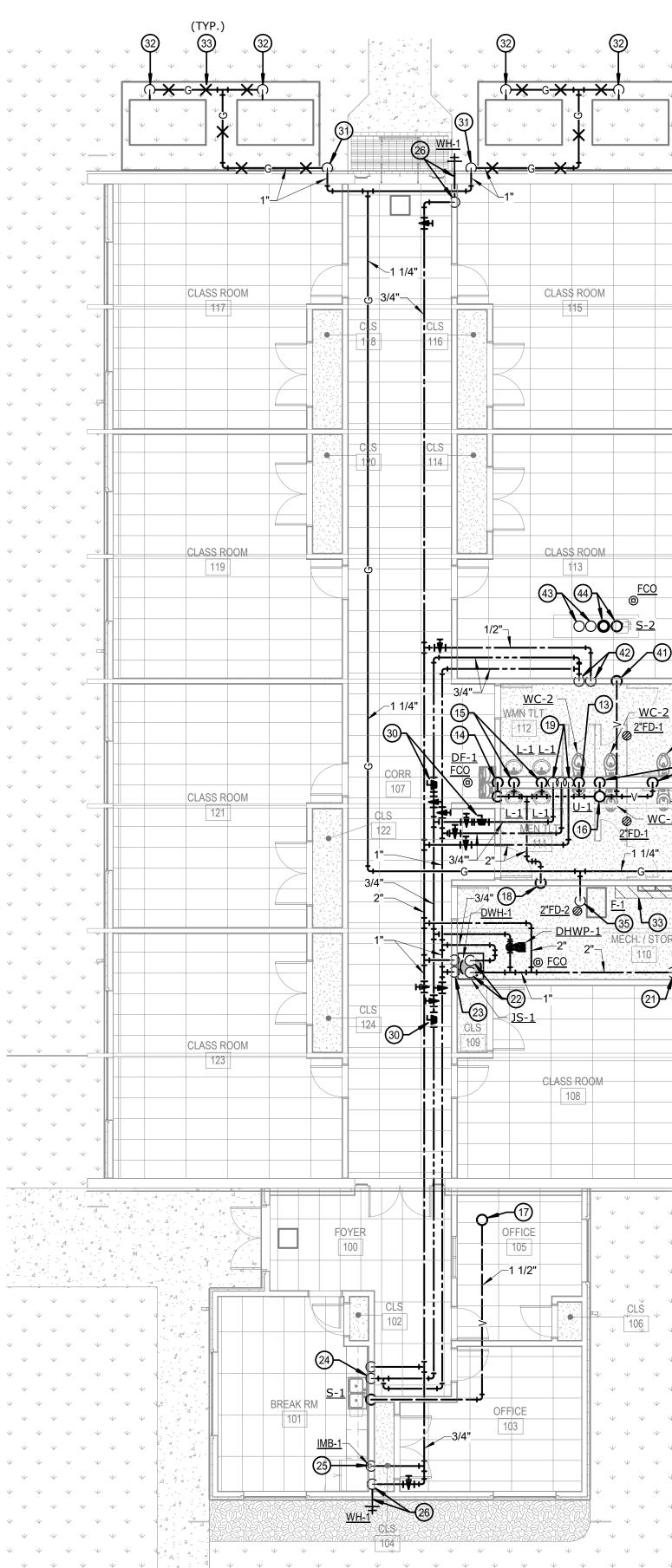
- 3. COORDINATE ALL SLAB CUTTING, REMOVAL, AND PATCHING WITH GENERAL CONTRACTOR AS REQUIRED FOR NEW BELOW GRADE PLUMBING WORK.
- 4. PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUTE FOR SHUT OFF VALVES. REFER TO M/E SCHEDULES AND DETAILS FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.





PLUMBING PLAN 1/8" = 1'-0"

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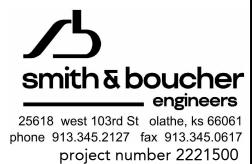




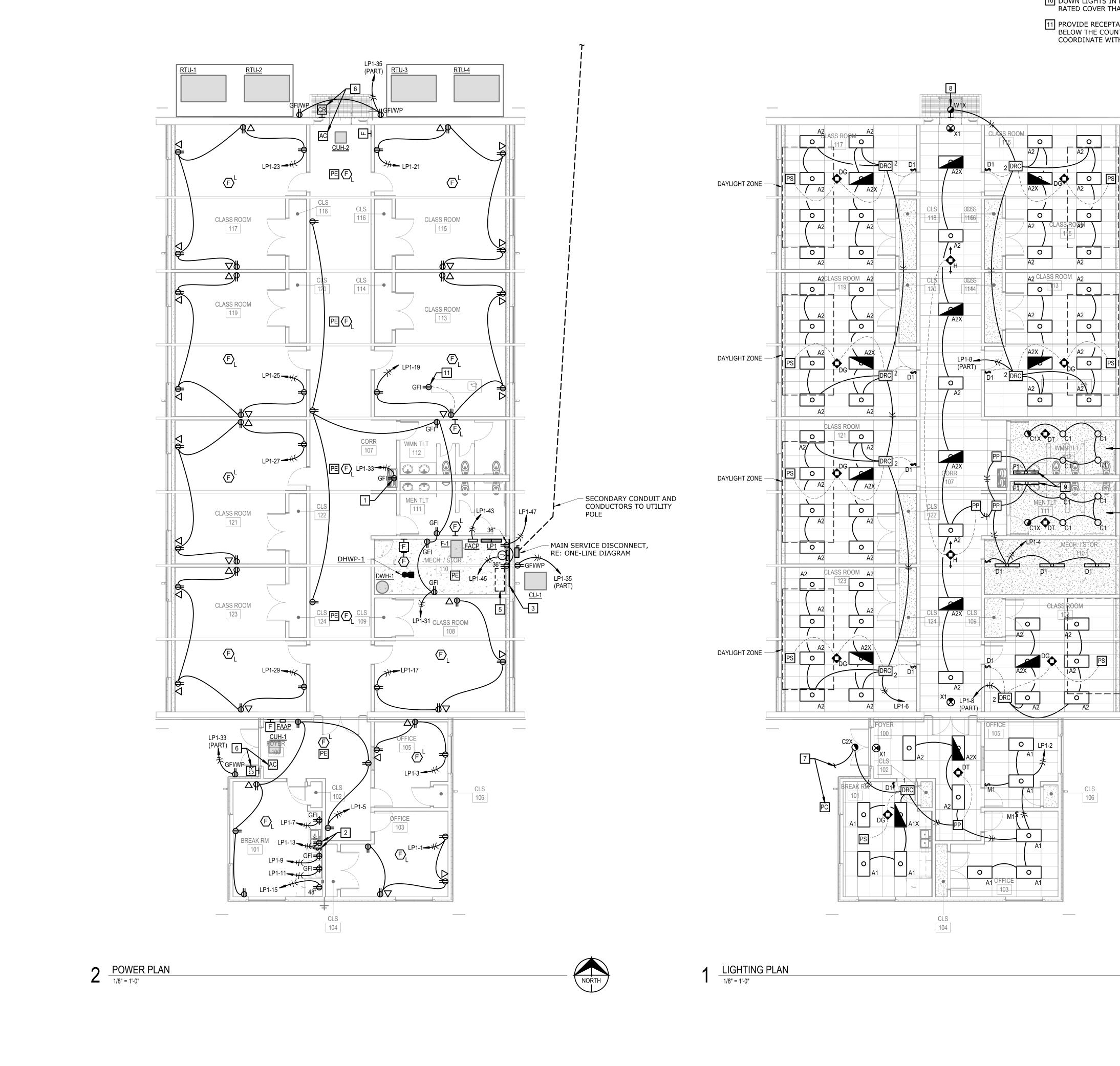
PLAN NOTES: (1) 4" SAN UP TO WATER CLOSET. (2) 4" SAN UP TO FINISH FLOOR CLEANOUT. (3) 3" TRAPPED SAN UP TO JANITOR'S SINK. (4) 3" SAN UP TO 2" SAN UP TO SINK. 5 2" SAN UP TO URINAL. (6) 2" SAN UP TO LAVATORIES. (7) 2" SAN UP TO DRINKING FOUNTAIN. (8) 2" TRAPPED SAN UP TO 2" FLOOR DRAIN. (9) 2" CIRCUIT VENT UP IN WALL. (10) 2" VENT UP IN WALL. (11) 2" WATER SERVICE UP THRU FLOOR. (12) 2" CIRCUIT VENT DOWN THRU FLOOR. (13) 1-1/2" VENT DOWN TO URINAL. (14) 1-1/2" VENT DOWN TO DRINKING FOUNTAIN. (15) 1-1/2" VENT DOWN TO LAVATORIES. (16) 3" VENT UP TO 3" VENT-THRU-ROOF. 17 1-1/2" VENT UP TO 2" VENT-THRU-ROOF. INSTALL VENT-THRU-ROOF ON BACK EAST SIDE. (18) 2" VENT DOWN THRU FLOOR. (19) 2" CW, 3/4" HW, 3/4" RHW DOWN IN WALL TO PLUMBING FIXTURES. REFER TO PLUMBING RISER DIAGRAM FOR CONTINUATION. (20) NO PIPING SHALL PASS DIRECTLY OVER ELECTRICAL EQUIPMENT. (21) 2" CW DOWN TO SHUT-OFF VALVE AND 2" RPZ BACKFLOW DEVICE INSTALLED IN THE VERTICAL, TO 2" WATER SERVICE. (22) 1" CW, 1" HW DOWN TO WATER HEATER. WATER HEATER INSTALLED ON SUPPORT SHELF ABOVE JANITOR'S SINK. REFER TO WATER HEATER DETAIL. (23) 3/4" CW, 3/4" HW DOWN TO JANITOR'S SINK. (24) 1-1/2" VENT, 1/2" CW, 1/2" HW DOWN TO SINK. BELOW SINK, PROVIDE ADDITIONAL HW QUARTER TURN ANGLE VALVE FOR DISH WASHER CONNECTION. COORDINATE WITH APPLIANCE PROVIDER. (25) 1/2" CW DOWN TO ICE-MAKER VALVE BOX. (26) 3/4" CW WITH SHUTOFF VALVE DOWN TO WALL HYDRANT. (27) 2" SAN UP TO SINK. (28) 4" SANITARY TO SANITARY MAIN AT PROPERTY LINE. FIELD DETERMINE EXACT TIE IN LOCATION AND DEPTH. (29) NEW WATER SERVICE, CONTINUE TO EXISTING WATER MAIN. FIELD DETERMINE EXACT LOCATION. COORDINATE REQUIRED METERING WITH UTILITY. (30) RETURN HOT WATER BALANCING VALVE. BALANCE TO 1 GPM. (31) 1" GAS THRU EXTERIOR WALL AND DOWN TIGHT TO BUILDING. PIPING SHALL BE CLEANED AND PREPPED FOR PAINT TO MATCH EXTERIOR FACADE. (32) 3/4" GAS WITH SHUT OFF VALVE, FULL SIZE 6" LONG DIRT LEG, AND UNION PRIOR TO CONNECTION TO GROUND MOUNT ROOF TOP UNIT. COORDINATE WITH MECHANICAL CONTRACTOR. (33) ROUTE AND SUPPORT GAS PIPING ON CONCRETE PAD. INSTALL PIPE SUPPORT PER MANUFACTURER'S RECOMMENDATIONS FOR SPACING AND AT FITTINGS. (34) 1-1/4 GAS DOWN IN WALL AND OUT THRU EXTERIOR TO GAS METER. COORDINATE WITH GAS UTILITY. GAS DELIVERY PRESSURE SHALL BE 7" W.C. AT 280 MBH CONNECTED LOAD.

(35) 1/2" GAS WITH SHUT OFF VALVE, FULL SIZE 6" LONG DIRT LEGS, AND UNION PRIOR TO CONNECTION TO FURNACE.

- (36) 4" SAN UP TO FINISH GRADE CLEANOUT.
- (37) 2" SAN, 1-1/2" ISLAND VENT UP THRU FLOOR IN BASE CABINET FOR LAB SINK.
- (38) 1-1/2" ISLAND VENT UP THRU FLOOR IN WALL.
- (39) 1/2" HW, 1/2" CW UP THRU FLOOR IN BASE CABINET FOR LAB SINK. NO PIPE JOINTS SHALL BE INSTALLED BELOW OR WITHIN THE SLAB.
- 40 1/2" HW, 1/2" CW UP THRU FLOOR IN WALL. NO PIPE JOINTS SHALL BE INSTALLED BELOW OR WITHIN THE SLAB.
- (41) 1-1/2" ISLAND VENT DOWN IN WALL.
- 42 1/2" HW, 1/2" CW DOWN IN WALL.
- (43) 1/2" HW, 1/2" CW DOWN THRU FLOOR.
- (44) 2" SAN,1-1/2" ISLAND VENT DOWN THRU FLOOR.



RYAN JEROD DIEDIKER ENGINEER LICENSE NO. 21446 ARCHITECTURAL CORPORATION MISSOUF LICENSE NO. 2009003483 2  $\mathbb{X}$ Ŷ Ш Ζ Ш Ċ TION 66204 NOVATION KS 4 ľRK,  $\odot$ Ш Ш C  $\geq$ AND 7401 AND NO ш Ĩ R DDIT AM 0  $\overline{\triangleleft}$ CKH, Ш Ω CONFIDENTIAL ESE PLANS ARE THE CONFIDENT PROPERTY AND CONTAIN EXCLUS DESIGNS OF DILLE & POLLARD, LLC. A E OF THESE DRAWINGS OR INFORMATION CONTAINED HEREIN FO ANY REASON OTHER THAN PRESSLY AUTHORIZED BY DILLE OLLARD, LLC IS STRICKLY PROHIBIT THESE DRAWINGS HAVE BE STRIBUTED WITH THE UNDERSTANI HAT ANYONE RECEIVING OR OTHERW OBTAINING POSSESSION OF THEM W E EXPRESSLY NOTIFIED OF TH ONFIDENTIAL NATURE **DECEMBER 15, 2023** SHEET TITLE PLUMBING PLAN 20-03 SHEET



NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT

9 WALL MOUNT FIXTURE ABOVE MIRROR(S).REFER TO ARCHITECTURAL PLANS.

PLAN NOTES:

RATED COVER THAT IS FIRE CAULKED TO GYP CEILING.

11 PROVIDE RECEPTACLE ON END OF BASE CABINET, JUST BELOW THE COUNTER TOP. INSTALLED HORIZONTALLY. COORDINATE WITH MILLWORK PROVIDER.

- DAYLIGHT ZONE

DAYLIGHT ZONE

- DAYLIGHT ZONE

**GENERAL NOTES:** 

- 1. REFER TO M/E SCHEDULES AND DETAILS FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.
- 10 DOWN LIGHTS IN RESTROOM SHALL BE PROVIDED WITH FIRE 2. PROVIDE (1) 1/2" CONDUIT FROM ALL THERMOSTATS UP TO ABOVE NEAREST ACCESSIBLE CEILING OR TO ASSOCIATED HVAC EQUIPMENT. PROVIDE WITH PULLSTRING. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  - 3. PROVIDE (1) 1" CONDUIT FROM EACH PHONE, DATA OR TELEVISION OUTLET SHOWN ON THIS SHEET UP TO ABOVE NEAREST ACCESSIBLE CEILING UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE BLANK FACEPLATES ON ANY UNUSED BOXES.
  - 4. PROVIDE MINIMUM OF 12 INCHES HORIZONTAL SEPARATION BETWEEN LOCATIONS OF BACK-TO-BACK DEVICES AT ALL FIRE RATED WALLS.
  - 5. FIRESTOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS AFTER INSTALLATION IS COMPLETE.
  - 6. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES. DEVICES NOT REFERENCED ON THE ARCHITECTURAL DRAWINGS ARE TYPICAL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS SHEET (REFER TO TYPICAL MOUNTING HEIGHT DETAIL ON SHEET). SPECIFIC MOUNTING HEIGHTS NOTED ON THIS SHEET ARE MEASURED FROM THE CENTER LIN OF THE JUNCTION BOX.
  - 7. CIRCUIT ALL EMERGENCY FIXTURES, EMERGENCY BATTERIES AND EXIT SIGNS TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT SERVING SAME OR ADJACENT ROOM.
  - 8. ON ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES. PROVIDE #10 AWG MINIMUM CONDUCTORS UNLESS NOTED OTHERWISE. APPLY SEALANT BETWEEN MOUNTING PLATE AND WALL SURFACE TO ENSURE A DRY J-BOX.
  - 9. REFER TO LIGHTING CONTROL EQUIPMENT SCHEDULES AND DETAILS FOR ADDITIONAL CONTROL INFORMATION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED. PROVIDE FINAL ADJUSTMENTS AND SETPOINTS WITH REGARDS TO OWNERS PREFERENCES.
  - 10. PROVIDE INFRASTRUCTURE FOR FIRE ALARM DEVICES AS REQUIRED. FIRE ALARM DEVICES SHOWN TO CONVEY SCOPE AND BIDDING PURPOSES ONLY. COORDINATE WITH FIRE ALARM CONTRACTOR EXACT LOCATION OF DEVICES THAT WILL REQUIRE INFRASTRUCTURE, I.E. JUNCTION BOXES AND 1/2" CONDUIT TO NEAREST ACCESSIBLE CEILING. FIRE ALARM CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FIRE ALARM DRAWINGS TO ALL AUTHORITIES HAVING JURISDICTION.
  - 11. PROVIDE INFRASTRUCTURE FOR DOORS AS REQUIRED FOR DOOR HARDWARE, INCLUDING BUT NOT LIMITED TO, DOOR POSITION SWITCHES, CARD READERS, REQUEST TO EXIT, ETC. PROVIDE WITH PULLSTRING. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE SCHEDULE, DOOR HARDWARE CONTRACTOR, AND SECURITY ACCESS CONTRACTOR. ALL LOW VOLTAGE CABLING AND CONTROLS PROVIDED OTHERS.
  - 12. PROVIDE INFRASTRUCTURE FOR SECURITY CAMERAS. CAMERAS SHOWN FOR COORDINATION ONLY. COORDINATE WITH ARCHITECT AND SECURITY CAMERA CONTRACTOR FOR EXACT LOCATIONS. CAMERA AND CABLING PROVIDED BY OTHERS. PROVIDE JUNCTION BOX AND 1/2" CONDUIT TO NEAREST ACCESSIBLE CEILING.
  - 13. PROVIDE INFRASTRUCTURE FOR TELECOMMUNICATIONS. COORDINATE EXACT REQUIREMENTS WITH TELECOMMUNICATIONS CONTRACTOR. EQUIPMENT, DEVICES, AND CABLING PROVIDED BY OTHERS. PROVIDE (1) 1" CONDUIT FROM EACH PHONE, DATA OR TELEVISION OUTLET TO NEAREST ACCESSIBLE CEILING UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE BLANK FACEPLATES ON ANY UNUSED BOXES.
  - 14. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE)

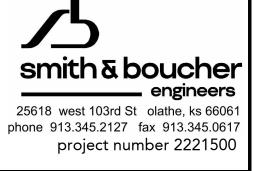
0' - 100' =	#12 AWG.
101' - 150'	= #10 AWG.
151' - 250'	= #8 AWG.

GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.

### PLAN NOTES:

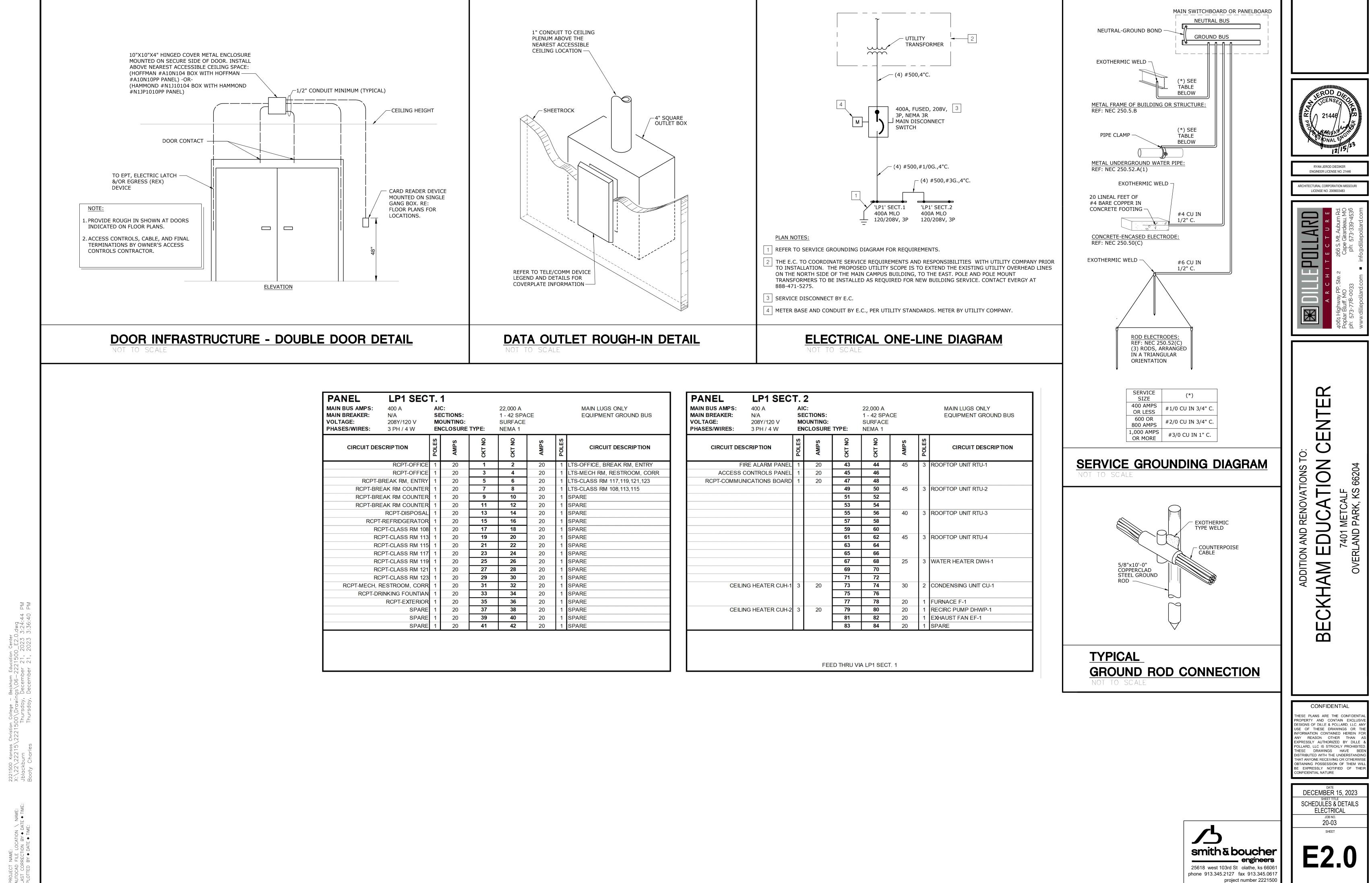
1 COORDINATE LOCATION OF RECEPTACLE FOR DRINKING FOUNTAIN WITH PLUMBING CONTRACTOR.

- 2 RECEPTACLE LOCATED BELOW SINK IN CABINET. PROVIDE TOP HALF OF RECEPTACLE SWITCHED FOR GARBAGE DISPOSAL. PROVIDE BOTTOM HALF UNSWITCHED FOR ADJACENT DISH WASHER. PROVIDE FINAL CONNECTIONS TO APPLIANCES/EQUIPMENT.
- 3 3/4" THICK X 8'-0" TALL FIRE RATED PLYWOOD COMMUNICATION BACKBOARD. PROVIDE LENGHT AS SHOWN. PLYWOOD SHALL BE PAINTED WITH LOW GLOSS, WHITE PAINT PRIOR TO INSTALLATION OF ANY COMMUNICATIONS OR SECURITY EQUIPMENT. PROVIDE GROUND BUS BAR FOR EQUIPMENT GROUNDING. REFER TO DETAIL.
- 4 PROVIDE POWER FOR DOOR ACCESS CONTROLS. ACCESS CONTROLS TO BE PROVIDED BY OWNER.
- 5 SPACE FOR COMMUNICATIONS RACK. COMMUNICATIONS RACK AND ALL COMMUNICATIONS EQUIPMENT TO BE PROVIDED BY OWNER. CONTRACTOR SHALL PROVIDE PATHWAYS FROM RACK (ROOM) TO ALL COMMUNICATIONS DEVICES SHOWN ON PLANS. COORDINATE WITH OWNER'S COMMUNICATION PROVIDER.
- 6 PROVIDE ROUGH-IN FOR ACCESS CONTROLS. REFER TO ROUGH-IN DETAIL. COORDINATE WITH OWNER'S ACCESS CONTROLS PROVIDER.
- 7 CIRCUIT EXTERIOR LIGHT VIA EXTERIOR SOFFIT MOUNT PHOTOCELL. PHOTOCELL EQUAL TO INTERMATIC #EK4336S.
- 8 WALL MOUNT EXTERIOR LIGHT APPROXIMATELY 13'-6" A.F.F. FIXTURE CONTROLLED VIA FACTORY MOUNT PHOTOCELL.



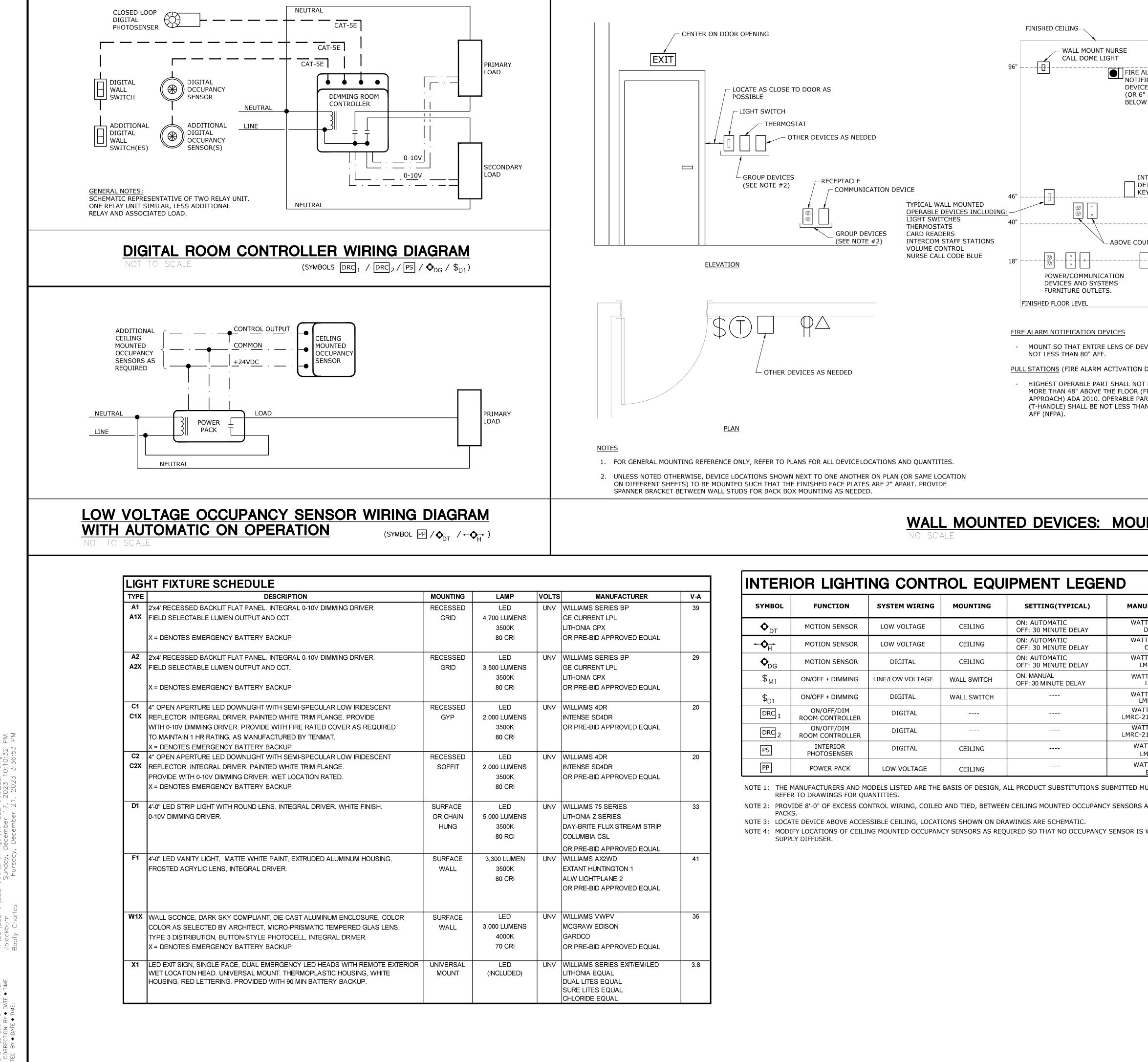
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RYAN JEROD DIEDIKER ENGINEER LICENSE NO. 21446 ARCHITECTURAL CORPORATION MISSOURI							
TICENZE NO. 5000003483       TICENZE NO. 5000003483         TICENZE NO. 573-778-0033       A R C H I T E C T U R E         4061 Highway PP, Ste. 2       266 S. Mt. Auburn Rd. Cape Girardeau, MO Ph: 573-339-4536         ph: 573-778-0033       ph: 573-339-4536         www.dillepollard.com       info@dillepollard.com							
ADDITION AND RENOVATION TO: BECKHAM EDUCATION CENTER 7401 METCALF OVERLAND PARK, KS 66204							
CONFIDENTIAL THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND CONTAIN EXCLUSIVE DESIGNS OF DILLE & POLLARD, LLC. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY DILLE & POLLARD, LLC IS STRICKLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE							
DATE DECEMBER 15, 2023 SHEET TITLE ELECTRICAL PLANS JOB NO. 20-03 SHEET E1_0							





PE:	22,000 A 1 - 42 SPA SURFACE NEMA 1	CE		MAIN LUGS ONLY EQUIPMENT GROUND BUS
CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
1	2	20	1	LTS-OFFICE, BREAK RM, ENTRY
3	4	20	1	LTS-MECH RM, RESTROOM, CORR
5	6	20	1	LTS-CLASS RM 117,119,121,123
7	8	20	1	LTS-CLASS RM 108,113,115
9	10	20	1	SPARE
11	12	20	1	SPARE
13	14	20	1	SPARE
15	16	20	1	SPARE
17	18	20	1	SPARE
19	20	20	1	SPARE
21	22	20	1	SPARE
23	24	20	1	SPARE
25	26	20	1	SPARE
27	28	20	1	SPARE
29	30	20	1	SPARE
31	32	20	1	SPARE
33	34	20	1	SPARE
35	36	20	1	SPARE
37	38	20	1	SPARE
39	40	20	1	SPARE
41	42	20	1	SPARE

MAIN LU EQUIPMI		CE	22,000 A 1 - 42 SPA SURFACE NEMA 1	TYPE:		AI SE MO	ANELLP1 SECN BUS AMPS:400 AN BREAKER:N/ATAGE:208Y/120 VASES/WIRES:3 PH / 4 W
CIRCU	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
ROOFTOP UN	3	45	44	43	20	1	FIRE ALARM PANEL
			46	45	20	1	ACCESS CONTROLS PANEL
			48	47	20	1	RCPT-COMMUNICATIONS BOARD
ROOFTOP UN	3	45	50	49			
			52	51			
			54	53			
ROOFTOP UN	3	40	56	55			
			58	57			
			60	59			
ROOFTOP UN	3	45	62	61			
			64	63			
			<mark>66</mark>	65			
WATER HEAT	3	25	<mark>68</mark>	67			
			70	69			
			72	71			
CONDENSING	2	30	74	73	20	3	CEILING HEATER CUH-1
			76	75			
FURNACE F-1		20	78	77			
RECIRC PUMF	1	20	80	79	20	3	CEILING HEATER CUH-2
EXHAUST FAN	1	20	82	81			
SPARE	1	20	84	83			



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MANUFACTURER	V-A
WILLIAMS SERIES BP	39
GE CURRENT LPL	
LITHONIA CPX	
OR PRE-BID APPROVED EQUAL	
WILLIAMS SERIES BP	29
GE CURRENT LPL	
LITHONIA CPX	
OR PRE-BID APPROVED EQUAL	
WILLIAMS 4DR	20
INTENSE SD4DR	
OR PRE-BID APPROVED EQUAL	
WILLIAMS 4DR	20
INTENSE SD4DR	20
OR PRE-BID APPROVED EQUAL	
WILLIAMS 75 SERIES	33
LITHONIA Z SERIES	
DAY-BRITE FLUX STREAM STRIP	
COLUMBIA CSL	
OR PRE-BID APPROVED EQUAL	
WILLIAMS AX2WD	41
EXTANT HUNTINGTON 1	
ALW LIGHTPLANE 2	
OR PRE-BID APPROVED EQUAL	
WILLIAMS VWPV	36
MCGRAW EDISON	30
GARDCO	
OR PRE-BID APPROVED EQUAL	
WILLIAMS SERIES EXIT/EM/LED	3.8
LITHONIA EQUAL	
DUAL LITES EQUAL SURE LITES EQUAL	
CHLORIDE EQUAL	

INTERIOR LIGHTING CONTROL EQUIPMENT LEGEND							
SYMBOL	FUNCTION	SYSTEM WIRING	MOUNTING	SETTING(TYPICAL)	MANUF		
<b>♦</b> <sub>DT</sub>	MOTION SENSOR	LOW VOLTAGE	CEILING	ON: AUTOMATIC OFF: 30 MINUTE DELAY	WATTS DT		
<b>←\$</b> _H	MOTION SENSOR	LOW VOLTAGE	CEILING	ON: AUTOMATIC OFF: 30 MINUTE DELAY	WATTS CI		
$\mathbf{\Phi}_{DG}$	MOTION SENSOR	DIGITAL	CEILING	ON: AUTOMATIC OFF: 30 MINUTE DELAY	WATTS LMD		
\$ <sub>M1</sub>	ON/OFF + DIMMING	LINE/LOW VOLTAGE	WALL SWITCH	ON: MANUAL OFF: 30 MINUTE DELAY	WATTS D\		
\$ <sub>D1</sub>	ON/OFF + DIMMING	DIGITAL	WALL SWITCH		WATTS LMD		
DRC 1	ON/OFF/DIM ROOM CONTROLLER	DIGITAL			WATTS LMRC-211		
DRC 2	ON/OFF/DIM ROOM CONTROLLER	DIGITAL			WATTS LMRC-212		
PS	INTERIOR PHOTOSENSER	DIGITAL	CEILING		WATT LML		
PP	POWER PACK	LOW VOLTAGE	CEILING		WATT B2		

	DO NOT PLACE SMOKE DETECTOR IN THIS AREA	_	
E ABOVE ' MINIMUM LESS TI V CEILING) FRAME. ALL OT	10UNTED EXIT SIGNS DOORWAYS: MOUNT NO HAN 2" ABOVE DOOR HER AREAS: MOUNT NO & THAN 4" BELOW CEILING.	4" 12" TOP OF DETECTOR ACCEPTABLE HERE	NULL ROD O
ITRUSION ETECTION EYPADS WALL MOUNTED PANIC BUTTONS UNTER DEVICES (REFER TO NOTE BE TYPICAL CONCEALED/ HIDDEN PANIC BUTTONS	PULL STATION (SEE NOTE BELOW)	ELEVATION GENERAL NOTES: 1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS SHOWN OTHERWISE ON THE PLANS. 2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.	21446 PROVIDE C 1 0 0 RYAN JEROD DIEDIKER ENGINEER LICENSE NO. 21446 ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. 2009003483 Dh1: 523-330-4530 Dh1: 523-4530 Dh1: 523-330-4530 Dh1: 523-330-4530 Dh1: 523-330-4530 Dh1: 523-4530 Dh1: 523-330-4530 Dh1: 523-330 Dh1: 523-340 Dh1: 523-
FOLLOWING: • THERM • LIGHT • INTER( • BE • PUSH I	OPERABLE DEVICES INCLUDE, BUT A IOSTATS. ING SWITCHES/DIMMERS/CONTROLS COM-STAFF STATIONS (MASTER STAT BUTTONS CONTROL OR "CALL" DEVICES		A R C H I T E C T A R C H I T E C T 4061 Highway PP, Ste. 2 Poplar Bluff, MO ph: 573-778-0033 ph: 573 www.dillepollard.com info@dillep
W/ ARCHITECTU LIGHT FIXTURES		TAGE OCCUPANCY WIRING DIAGRAM	ADDITION AND RENOVATIONS TO: BECKHAM EDUCATION CENTER 7401 METCALF OVERLAND PARK, KS 66204
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		smithā boucher	DECEMBER 15, 2023 SHEET TITLE SCHEDULES & DETAILS ELECTRICAL JOB NO. 20-03 SHEET

**E2** 

project number 2221500

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