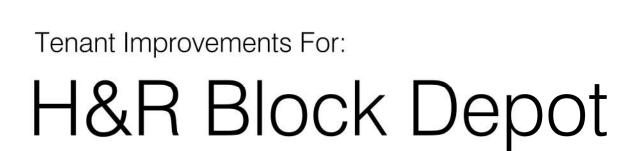




ARCHITECT	STUDIO NORTH ARCH
PLUMBING	
MECHANICAL	
ELECTRICAL	
FIRE PROTECTION	
CONTRACTOR	FOR



Located At:

Lee's Summit Logistics

Building B 🔸 1220 NW Main St • Lee's Summit, MO 64086

## ARCHITECTURAL

A0.01	LEGENDS AND GENERAL NOTES
A0.02	SPECIFICATIONS
A0.03	WALL TYPES   DETAILS
A2.01	FLOOR PLANS
A4.01	INTERIOR ELEVATIONS   DETAILS
A8.01	DOOR & WINDOW SCHEDULE
A8.02	DOOR & WINDOW DETAILS
A8.03	FINISH SCHEDULE   FINISH PLAN
A9.01	REFLECTED CEILING PLAN

# StudioNorth ARCHITECTURE

HITECTURE • 3315 NORTH OAK TRAFFICWAY • KANSAS CITY, MO 64116 • 816.888.7380
DESIGN-BUILD BY GEN CONTRACTOR
RGE CONSTRUCTION • 1307 UNION AVENUE • KANSAS CITY, MO 64101 • 816.608.1800

MECHANICAL DESIGN-BUILD BY GEN CONTRACTOR TO BE SUBMITTED UNDER SEPARATE COVER

PLUMBING DESIGN-BUILD BY GEN CONTRACTOR TO BE SUBMITTED UNDER SEPARATE COVER

ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR TO BE SUBMITTED UNDER SEPARATE COVER

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# SIGNAGE REQUIREMENTS INSTALLED AT THE FOLLOWING LOCATIONS:

LOCATION UNISEX TOILETS (NOT USED) WOMEN'S ROOMS MEN'S ROOMS ACCESSIBLE EXIT DISCHARGE

EXIT DISCHARGE

- ADAAG SECTIONS 703.1, 703.2, 703.3, 703.4, AND 703.5.
- ADAAG SECTION 703.3.
- SIGNS SHALL BE MOUNTED PER THE DETAIL BELOW AND SO THAT TACTILE CHARACTERS ARE A MINIMUM OF 48" ABOVE THE FINISHED FLOOR OR GROUND SURFACE AS MEASURED FROM THE BASELINE OF THE LOWEST CHARACTER AND A MAXIMUM OF 60" ABOVE THE FINISHED FLOOR OR GROUND SURFACE AS MEASURED FROM THE BASELINE OF THE HIGHEST CHARACTER
- MOUNTED ON THE NEAREST ADJACENT WALL.

1/4" "MATTE BLACK" PLASTIC BACKGROUND

"MATTE WHITE" PICTOGRAM (COMPLY W/ ADAAG SECTION 703.6)

"MATTE WHITE" RAISED SANS SERIF CHARACTERS \_ (COMPLY W/ ADAAG SECTION 703.2) GRADE 2 BRAILLE -(COMPLY W/ ADAAG SECTION 703.3)



₽F MEN

1/4" "MATTE BLACK" PLASTIC BACKGROUND

"MATTE WHITE" PICTOGRAM (COMPLY W/ ADAAG SECTION 703.6)

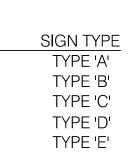
"MATTE WHITE" RAISED SANS SERIF CHARACTERS -(COMPLY W/ ADAAG SECTION 703.2) GRADE 2 BRAILLE -(COMPLY W/ ADAAG SECTION 703.3)

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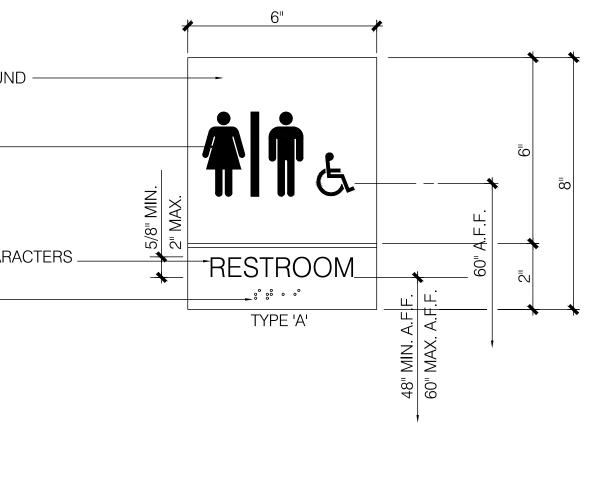
KEY PLAN

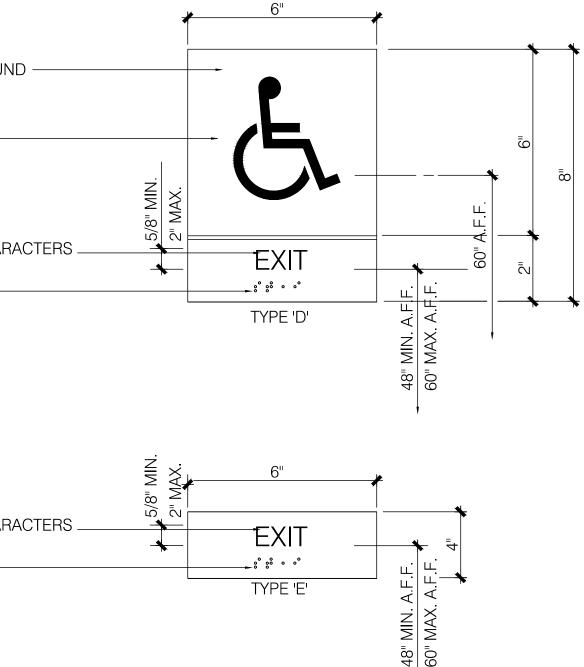


PERMANENT SIGNAGE COMPLYING WITH THE SPECIFICATIONS AND DETAILS BELOW SHALL BE FURNISHED AND



- INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES,
- THE PICTOGRAMS SHALL COMPLY WITH ADAAG SECTION 703.6 AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH ADAAG SECTIONS 703.2 AND 703.5, ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH
- . SIGNS SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, ON THE RIGHT HAND SIDE OF DOUBLE DOORS WITH 2 ACTIVE LEAFS, AND ON THE INACTIVE LEAF OF DOUBLE DOORS WITH ONE ACTIVE LEAF., IF NO WALL SPACE EXISTS ON THE LATCH SIDE OF THE DOOR, SIGNS SHALL BE





# GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE APPLICABLE CODES INDICATED IN THE CODE SUMMARY COLUMN AND ALL LOCAL CODES PRESENTLY IN EFFECT UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
- ALL NEW CONSTRUCTION SHALL COMPLY W/ THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 "ACCESSIBILITY" OF THE INTERNATIONAL BUILDING CODE
- 3. THE OWNER SHALL OBTAIN AN PAY FOR ALL REQUIRED BUILDING PERMITS AND, LICENSES, AND UTILITY CHARGES. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL ARRANGE FOR ALL REQUIRED INSPECTIONS.
- 4. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS & CONDITIONS ON THE JOB SITE PRIOR TO THE BIDDING OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- IN CASES OF DISCREPANCY CONCERNING DIMENSIONS, QUANTITIES AND LOCATION, THE CONTRACTOR SHALL, IN WRITING, CALL TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN SPECIFICATIONS, PLANS, DETAILS OR SCHEDULES. THE ARCHITECT WILL THEN INFORM THE CONTRACTOR, IN WRITING, WHICH DOCUMENT TAKES PRECEDENCE. THERE SHALL BE NO ADJUSTMENT TO THE COST OR TIME OF THE WORK RESULTING FROM CLARIFICATION OF SUCH DISCREPANCIES.
- DIMENSIONS ON DRAWINGS ARE SHOWN TO FINISHED FACE OF WALLS AND PARTITIONS OF EXISTING OR NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS AND ALL OTHER VERTICAL DIMENSIONS ARE TO THE FINISHED FLOOR SURFACE UNLESS OTHERWISE NOTED. 7. ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- RECOMMENDATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES PER THE SPECIFICATIONS. PRIOR TO FORWARDING TO THE ARCHITECT FOR REVIEW. THESE SUBMITTALS MUST BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL AFFIX HIS STAMP TO EACH SUBMITTAL INDICATING HIS REVIEW. SUBMITTALS FORWARDED WITHOUT A STAMP WILL BE RETURNED.
- CONTRACTOR SHALL GUARANTEE ALL WORK AS OUTLINED IN THE OWNER-CONTRACTOR AGREEMENT. 10. ALL CHANGES PROPOSED DURING CONSTRUCTION WHICH RESULT IN A CHANGE TO THE CONTRACT TIME AND/OR SUM SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE OWNER BEFORE SUCH WORK SHALL COMMENCE.
- 11. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-RETARDANT TREATED WOOD BLOCKING BEHIND ALL WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- 12. CONTRACTOR SHALL COORDINATE ALL LOCK AND LATCH SETS AND FINAL KEYING WITH OWNER. DOUBLE KEYED LOCKS ARE NOT PERMITTED ON ANY REQUIRED OR MARKED EXIT. MATCH EXISTING KEYING SYSTEM IF ONE IS EXISTING.
- 13. ALL DOOR HARDWARE ON EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. 14. CONTRACTOR SHALL PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE W/
- THE MANUFACTURER'S RECOMMENDATIONS FOR THE SUBSTRATE AND FINISH BEING APPLIED. 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONSTRUCTION INDICATED TO REMAIN AND SHALL REPAIR AND/OR REPLACE ALL AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION AT A MINIMUM TO THE CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION.
- 16. CONTRACTOR SHALL COORDINATE QUANTITY AND LOCATIONS OF FIRE EXTINGUISHERS WITH THE FIRE DEPARTMENT AND/OR BUILDING DEPARTMENT.
- 17. ALL HIGH-PILED STORAGE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE APPLICABLE EDITION OF THE INTERNATIONAL FIRE CODE
- 18. ALL NEW GLASS AND GLAZING LOCATED IN HAZARDOUS LOCATIONS AS DEFINED IN IBC CHAPTER 24 SHALL MEET THE REQUIREMENTS FOR SAFETY GLAZING AS DEFINED IN CHAPTER 24 19. FURNITURE AND APPLIANCES INDICATED ON PLANS ARE FOR CONCEPTUAL PLANNING PURPOSES ONLY,
- UNLESS NOTED OTHERWISE. CONTRACTOR SHALL VERIFY THE FINAL SPECIFICATIONS, LAYOUT, AND CLEARANCE REQUIREMENTS WITH LANDLORD OR TENANT. 20. CONTRACTOR SHALL COORDINATE CLEAR OPENINGS FOR ALL APPLIANCES PRIOR TO CONSTRUCTION OF CASEWORK.
- 21. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-RETARDANT TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- 22. INTERIOR FINISHES SHALL CONFORM TO IBC CHAPTER 8 AND SECTION 1210
- 23. ALL GYPSUM BOARD AT BATHROOMS, LAUNDRIES, AND WET WALLS SHALL BE MOISTURE RESISTANT. 24. ALL CONSTRUCTION MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE
- A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50. 25. ALL PIPING, LOW VOLTAGE WIRE AND CABLE, OPTICAL FIBER, PNEUMATIC TUBING, AND ALL DUCT AND DUCT COVERINGS, LININGS AND CONNECTORS INSTALLED WITHIN PLENUMS MUST BE RATED FOR PLENUM USE.
- 26. TENANT SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF VOICE AND DATA CABLING AND EQUIPMENT.



EXISTING CONSTRUCTION TO REMAIN.  $\equiv$   $\equiv$   $\equiv$  EXISTING CONSTRUCTION TO BE REMOVED. NEW CONSTRUCTION. WALL TYPE DESIGNATION - REFERENCE FLOOR PLANS FOR LOCATIONS  $- \langle X \rangle$ REFERENCE SHEET A0.03 FOR CONSTRUCTION REQUIREMENTS NAME ROOM NAME AND NUMBER - REFERENCE FLOOR PLAN(S) FOR LOCATIONS. ### REFERENCE FINISH SCHEDULE FOR FINISHES. DOOR AND FRAME DESIGNATION - REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DOOR AND FRAME SCHEDULE FOR REQUIREMENTS ELEVATION SYMBOL • • — ELEVATION NUMBER — SHEET NUMBER SECTION SYMBOL

- SECTION NUMBER

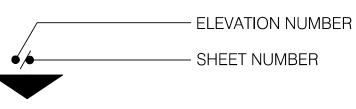
- SHEET NUMBER

DRAWING SYMBOLS LEGEND

ENLARGED DETAIL / ENLARGED PLAN SYMBOL ′ ≛\_\_\_ — DETAIL NUMBER — SHEET NUMBER

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CONSTRUCTION NOTE

DEMOLITION NOTE

**REVISION NOTE** 

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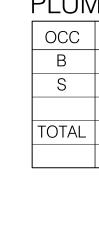
RESTROOM ACCESSORY DESIGNATION - REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A2.01 FOR LEGEND.

GYPSUM BOARD CONTROL JOINT - REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A0.03 FOR CONSTRUCTION REQUIREMENTS

WALL AND/OR COLUMN MOUNTED FIRE EXTINGUISHER (UL RATING 4A-80B:C) W/ MOUNTING BRACKET, ORDINARY HAZARD RATED FOR 1,500 SF PER UNIT OF A (6,000 SF PER EXTINGUISHER). **REFERENCE FLOOR PLAN(S) FOR LOCATIONS** MOUNT SO CENTERLINE OF EXTINGUISHER IS 47" A.F.F.

SEMI-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, ARCHITECTURAL SERIES AL2409-6R, W/MP10 FIRE EXTINGUISHER, CLEAR ALUMINUM SOLID DOOR, AND "FIRE" HANDLE W/ STANDARD FINSH. MOUNT SO CENTERLINE OF CABINET HANDLE IS 47" A.F.F.

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ARCHITECTURE





PROJECT NAME PROJECT ADDRESS PROPOSED USE(S)

TENANT IMPROVEMENTS FOR A TECHNICAL OFFICE AND WAREHOUSE STORAGE COMPONENT SUPPORTING THE COMPANY'S EQUIPMENT NEEDS BY RECEIVING EQUIPMENT TO BE REPAIRED, STORED AND SHIPPED BACK OUT TO COMPANY SITES

INTERNATIONAL BUILDING CODE (IBC) INTERNATIONAL FIRE CODE (IFC) INTERNATIONAL MECHANICAL CODE (IMC) INTERNATIONAL PLUMBING CODE (IPC) NATIONAL ELECTRICAL CODE (NEC) ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

USE & ( USE OFFICE WAREH

ONE-STORY, GROUP B,F,M,S

**BUILDING ELEMENT** Primary Roof construction and associated secondary members

\* ACCESSORY USE AREAS (SEE CODE PLAN) NOT ADDITIVE TO TOTAL OCCUPANT LOAD, EMPLOYEE USE ONLY 748 SF NET/20 SF PER OCCUPANT = 38 OCCUPANTS TRAINING ROOM (20 SF/OCCUPANT) MEANS OF EGRESS  $(109 \text{ occupants}) \times (.2^{"} \text{ per occupant}) = 21.8^{"}$ EGRESS WIDTH REQUIRED: (4) Doors @ 33" CLR = 132" EGRESS WIDTH PROVIDED:

Smoke and heat venting

REPORT SHALL BE PROVIDED AND SUBMITTED UNDER SEPARATE COVER BY THE OWNER. ENERGY COST BUDGET (ECB) - THE REPORT SHALL COMPLY WITH THE CURRENT MANDATORY PROVISIONS OF ASHRAE 90.1 AS ALLOWED BY THE IECC. THE REPORT MUST DEMONSTRATE THE DESIGN ENERGY COST DOES NOT EXCEED THE ENERGY COST BUDGET AS CALCULATED BY THE SIMULATION PROGRAM REQUIREMENTS; AND THE ENERGY EFFICIENCY LEVEL OF COMPONENTS SPECIFIED IN THE BUILDING DESIGN MEET OR EXCEED THE EFFICIENCY LEVEL USED TO CALCULATE THE DESIGN ENERGY COST. TOTAL BUILDING PERFORMANCE-BASED COMPLIANCE - THE REPORT SHALL MEET THE MANDATORY REQUIREMENTS OF THE IECC. THE REPORT MUST DEMONSTRATE THE PROPOSED BUILDING/ DESIGN HAS AN ANNUAL ENERGY COST THAT IS LESS THAN OR EQUAL TO THE ANNUAL ENERGY COST OF THE STANDARD

REFERENCED DESIGN.

NO A0.01 A0.02 A0.03 A2.01 A4.01 A8.02 A8.03

THE UNDERSIGNED ARCHITECT AND STUDIO NORTH ARCHITECTURE DISCLAIM RESPONSIBILITY FOR ALL OTHER CONSTRUCTION DOCUMENTS, AND ANY OTHER SPECIFICATIONS, REPORTS, ESTIMATES, SHOP DRAWINGS, ETC. RELATING TO OR INTENDED TO BE USED FOR ANY PART OF THE ARCHITECTURAL OR ENGINEERING PROJECT, INCLUDING ANY GEOTECHNICAL ENGINEERING SERVICES, OR ENVIRONMENTAL REPORTS. THIS NOTICE IS EXECUTED BY THE UNDERSIGNED AND AUTHENTICATED BY THE ARCHITECTURAL SEAL OF THE PERSON PREPARING THIS NOTICE.

# CODE SUMMARY

## **PROJECT INFORMATION**

H&R BLOCK DEPOT TENANT IMPROVEMENT 1220 NW Main St, Lee's Summit, MO 64086 OFFICE, STORAGE

# PROJECT DESCRIPTION

# APPLICABLE CODES

## **BUILDING DATA**

OCCUPAN	ICY CLASSIFICATION	CONSTRUCTION TYPE	GENERAL BUILDIN	NG HEIGHT & AREA LIMITATIONS
	CLASSIFICATION		S1 Floor Area (At)	Stories, Height
E	Group (B)	Type II-B, SPRINKLERED	92,000 SF	4 Stories, 75 FT. (*1)
HOUSE	Group (S-1)	Type II-B, SPRINKLERED	70,000 SF	3 Stories, 75 FT. (*2)

\*1: BUILDING HEIGHT LIMITED TO 2 STORIES PER U.L. AREA EXCEPTION TAKEN PER 507.5 \*2: BUILDING HEIGHT LIMITED TO 1 STORY PER INCREASED TRAVEL DISTANCE EXCEPTION TAKEN PER 1017.2.2

## BUILDING HEIGHT MODIFICATIONS

TOTAL ALLOWABLE HEIGHT TOTAL CONSTRUCTED HEIGHT

60'-0", 2 STORIES 42'-0", 1 STORY

2018 EDITION

2018 EDITION

2018 EDITION

2018 EDITION

2017 EDITION

# BUILDING AREA MODIFICATIONS

Automatic Sprinkler System Automatic sprinkler system throughout per Section 903.3.1.1 Frontage: Surrounded and adjoined by public ways or yards not less than 60' in width TOTAL ALLOWABLE AREA UNLIMITED TOTAL CONSTRUCTED BUIDLING SHELL AREA ±113,615 SF TOTAL PROPOSED TENANT AREA ±34,090 SF

# \* PROPOSED SPRINKLER IS AN ESFR (EARLY SUPPRESSION FAST RESPONSE) SYSTEM

## OCCUPANCY SEPARATIONS NON-SEPARATED OCCUPANCIES (most restrictive occupancy classification determines allowable area)

GROUP (S-1) MOST RESTRICTIVE OCCUPANCY GROUP ALLOWABLE AREA GROUP S-1, TYPE II-B, 60' YARDS, FULLY SPRINKLERED = UNLIMITED

## FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS (hours)

BUILDING ELEMENT	CONSTRUCTION TYPE (II-B)
Primary structural frame	0 hours
Bearing walls (exterior)	0 hours
Non-bearing walls and partitions (interior)	0 hours
Non-bearing walls and partitions (exterior)	0 hours
	0 bouro

# CALCULATED OCCUPANT LOAD (tenant)

8,027 SF/150 SF PER OCCUPANT = 54 OCCUPANTSOFFICE (150 SF/OCCUPANT) 1,331 SF/300 SF PER OCCUPANT = 5 OCCUPANTSSTORAGE (300 SF/OCCUPANT)  $\underline{24,732} \text{ SF/500 SF PER OCCUPANT} = 50 \text{ OCCUPANTS}$ WAREHOUSE (500 SF/OCCUPANT) TOTAL OCCUPANT LOAD 109 OCCUPANTS

0 hours

# EXIT ACCESS TRAVEL DISTANCE

GROUP B SPRINKLERED = 300', GROUP S-1, SPRINKLERED = 400' None required w/ ESFR sprinkler system per IBC Section 910.1, Exception 2

# PLUMBING FIXTURES (per IPC table 403.1)

			/				
OCCUPANT LOAD		WATER ( MALE	CLOSETS FEMALE	LAVAT MALE	ORIES FEMALE	DRINKING FOUNTAINS	OTHER
54 occ./2=27 men,27 women	wc:1 per 25 1st 50, then 1 per 50 lav: 1 per 40 1st 80, then 1 per 80 drinking fountain : 1 per 100	1.07 *	1.07 *	.67 *	.67 *	.54 *	
55 occ./2=27.5 men,27.5 women	water closet & lav:1 per 100 drinking fountain: 1 per 1,000	.27 *	.27 *	.27 *	.27 *	.05 *	
		*	*	*	*	*	
		1.34 3	1.34 3	.94 2	.94 2	.59	1 service sinks
	REQUIRED-	• •	-PROVIDED				– 1 HI, 1 LOW

# ENERGY CODE STATEMENT

AN ENERGY COST BUDGET (ECB) COMPLIANCE REPORT OR TOTAL BUILDING PERFORMANCE-BASED COMPLIANCE

# PROFESSIONAL SERVICES DISCLAIMER

THIS DISCLAIMER SERVES NOTICE OF ACCEPTANCE OF RESPONSIBILITY AND DISCLAIMER OF RESPONSIBILITY AS TO THE CONTRACT DOCUMENTS PREPARED FOR H&R BLOCK DEPOT TENANT IMPROVEMENTS BY STUDIO NORTH

STUDIO NORTH ARCHITECTURE AND THE UNDERSIGNED ARCHITECT, ARE RESPONSIBLE FOR PREPARATION OF THE FOLLOWING CONSTRUCTION DRAWINGS:

## TITLE

LEGENDS AND GENERAL NOTES SPECIFICATIONS

## WALL TYPES | DETAILS FLOOR PLANS

INTERIOR ELEVATIONS | DETAILS DOOR & WINDOW SCHEDULE

DOOR & WINDOW DETAILS FINISH SCHEDULE | FINISH PLAN REFLECTED CEILING PLAN



	BY GEN CONTRACTOR
MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION



1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Date: Issued For: Permit Submittal Drawn By: F. Crubaugh Reviewed By: F. Crubaugh Revisions:

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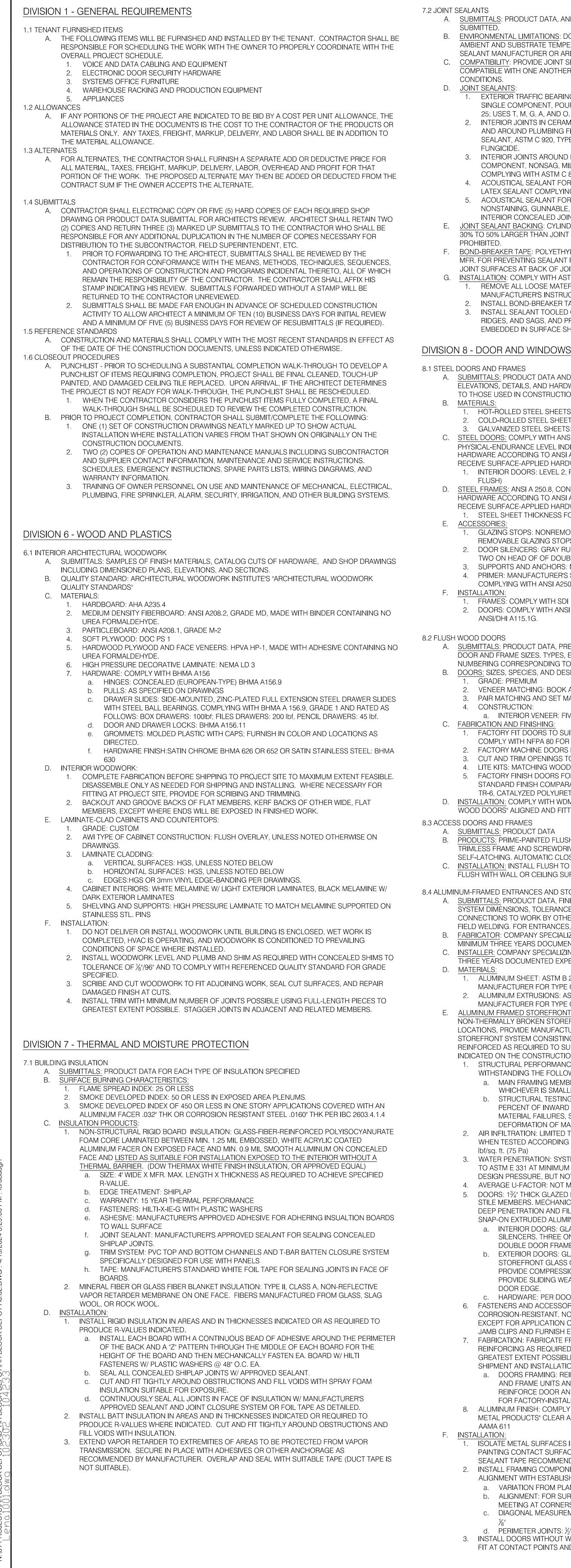
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04.26.24

No. Date Description \_\_\_\_\_ \_\_\_\_\_



LEGENDS AND GENERAL NOTES



A. SUBMITTALS: PRODUCT DATA, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT B. ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4.4 deg C). C. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION

EXTERIOR TRAFFIC BEARING JOINTS WHERE SLOPE PERMITS USE OF POURABLE SEALANT: SINGLE COMPONENT, POURABLE URETHANE SEALANT, ASTM C 920, TYPE S; GRADE P; CLASS 25; USES T, M, G, A, AND O. 2. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE

SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES NT, G, A, AND O; FORMULATED WITH FUNGICIDE. 3. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION SEALANT

COMPLYING WITH ASTM C 834. 4. ACOUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE, NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834. ACOUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, GUNNABLE, SYNTHETIC-RUBBER SEALANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AIRBORNE SOUND. E. JOINT SEALANT BACKING: CYLINDRICAL CLOSED CELL PVC ROD COMPLYING WITH ASTM C330; SIZE 30% TO 50% LARGER THAN JOINT WIDTH. ALL OPEN CELL BACKINGS SUCH AS "DENVER FOAM" ARE

F. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR. FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT. G. INSTALLATION: COMPLY WITH ASTM C 1193; ASTM C 919 FOR ACOUSTICAL JOINTS; AND AS FOLLOWS:

REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES. 2. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED. 3. INSTALL SEALANT TOOLED CONCAVE, FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER,

RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION

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

HOT-ROLLED STEEL SHEETS: ASTM A1011/A 1011M 2. COLD-ROLLED STEEL SHEETS: ASTM A 1008/A 1008M OR ASTM A 620/A 620M 3. GALVANIZED STEEL SHEETS: ASTM A 653/A 653M, A40 OR G40 (ZF120 OR Z120) COATING C. STEEL DOORS: COMPLY WITH ANSI 250.8 FOR LEVEL AND MODEL AND ANSI A250.4 FOR PHYSICAL-ENDURANCE LEVEL INDICATED, 1<sup>3</sup>/<sub>4</sub>" THICK PREPARED FOR MORTISED AND CONCEALED HARDWARE ACCORDING TO ANSI A 250.6 AND ANSI A115 SERIES STANDARDS AND REINFORCED TO RECEIVE SURFACE-APPLIED HARDWARE. 1. INTERIOR DOORS: LEVEL 2, PHYSICAL PERFORMANCE LEVEL B (HEAVY DUTY), MODEL 1 (FULL D. STEEL FRAMES: ANSI A 250.8, CONCEALED FASTENING, PREPARED FOR MORTISED AND CONCEALED

HARDWARE ACCORDING TO ANSI A 250.6 AND ANSI A 115 SERIES STANDARDS AND REINFORCED TO RECEIVE SURFACE-APPLIED HARDWARE. 1. STEEL SHEET THICKNESS FOR INTERIOR FRAMES: PER DOOR SCHEDULE 1. GLAZING STOPS: NONREMOVABLE ON SECURE SIDE OF INTERIOR DOORS; SCREW-APPLIED,

REMOVABLE GLAZING STOPS ON INSIDE. 2. DOOR SILENCERS: GRAY RUBBER PUSH-IN TYPE; THREE ON STRIKE JAMB OF SINGLE DOORS; TWO ON HEAD OF OF DOUBLE DOORS. 3. SUPPORTS AND ANCHORS: MIN. .042" THICK GALVANIZED STEEL SHEET 4. PRIMER: MANUFACTURER'S STANDARD FACTORY APPLIED COAT OF RUST-INHIBITIVE PRIMER COMPLYING WITH ANSI A250.10.

1. FRAMES: COMPLY WITH SDI 105 2. DOORS: COMPLY WITH ANSI A250.8. SHIM AS NECESSARY TO COMPLY WITH SDI 122 AND ANSI/DHI A115.1G.

A. SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES. TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. B. DOORS: SIZES, SPECIES, AND DESIGNS AS INDICATED COMPLYING WITH WDMA I.S.1-A GRADE: PREMIUM

2. VENEER MATCHING: BOOK AND RUNNING 3. PAIR MATCHING AND SET MATCHING

a. INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES

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

4. LITE KITS: MATCHING WOOD STOPS 5. FACTORY FINISH DOORS FOR TRANSPARENT FINISH WITH STAIN AND MANUFACTURER'S STANDARD FINISH COMPARABLE TO AWI, SYSTEM TR-4, CONVERSION VARNISH OR AWI SYSTEM TR-6, CATALYZED POLYURETHANE. D. INSTALLATION: COMPLY WITH WDMA'S "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS" ALIGNED AND FITTED IN FRAMES WITH UNIFORM CLEARANCES AND BEVELS.

B. PRODUCTS: PRIME-PAINTED FLUSH, UNINSULATED ACCESS DOORS FOR WALLS AND CEILINGS WITH TRIMLESS FRAME AND SCREWDRIVER OPERATED LOCK FLUSH WITH FINISHED SURFACE. FIRE-RATED, SELF-LATCHING. AUTOMATIC CLOSING AT FIRE-RATED WALLS OR CEILINGS. C. INSTALLATION: INSTALL FLUSH TO FINISHED DRYWALL SURFACE WITH FRAME TAPED AND SANDED FLUSH WITH WALL OR CEILING SURFACE AND FINISH TO MATCH ADJACENT SURFACE.

8.4 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS A. SUBMITTALS: PRODUCT DATA, FINISH SAMPLES, AND SHOP DRAWINGS INDICATING DESIGN LOADS, SYSTEM DIMENSIONS, TOLERANCES, DETAILS AT JOINTS AND PERIMETER CONDITIONS, FLASHING CONNECTIONS TO WORK BY OTHERS, EXPANSION AND CONTRACTION JOINT LOCATIONS, AND ANY FIELD WELDING. FOR ENTRANCES. INCLUDE HARDWARE SCHEDULE. B. FABRICATOR: COMPANY SPECIALIZING IN MANUFACTURING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE C. INSTALLER: COMPANY SPECIALIZING IN INSTALLING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE

ALUMINUM SHEET: ASTM B 209 (ASTM B 209M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED. 2. ALUMINUM EXTRUSIONS: ASTM B 221 (ASTM B221M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED. ALUMINUM FRAMED STOREFRONTS: AT INTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD NON-THERMALLY BROKEN STOREFRONT SYSTEM MATCHING THE EXTERIOR SYSTEM. AT EXTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD THERMALLY BROKEN, EXTRUDED ALUMINUM STOREFRONT SYSTEM CONSISTING OF FRAMING MEMBERS OF THICKNESS REQUIRED AND REINFORCED AS REQUIRED TO SUPPORT IMPOSED LOADS AND TO FIT THE DIMENSIONS AND DEPTHS INDICATED ON THE CONSTRUCTION DOCUMENTS AND COMPLYING WITH THE FOLLOWING: 1. STRUCTURAL PERFORMANCE: PROVIDE SYSTEMS, INCLUDING ANCHORAGE, CAPABLE OF WITHSTANDING THE FOLLOWING LOADS:

a. MAIN FRAMING MEMBER DEFLECTION: LIMITED TO 1/175 OF CLEAR SPAN OR  $\frac{3}{4}$ " WHICHEVER IS SMALLER. STRUCTURAL TESTING: SYSTEMS WHEN TESTED ACCORDING TO ASTM E 330 AT 150 PERCENT OF INWARD AND OUTWARD WIND-LOAD DESIGN PRESSURE DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, DEFLECTION FAILURES, OR PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT OF CLEAR SPAN. 2. AIR INFILTRATION: LIMITED TO 0.06 CFM/SQ. FT. (0.03 L/s PER SQ. IN.) OF SYSTEM SURFACE AREA WHEN TESTED ACCORDING TO ASTM E 283 AT A STATIC-AIR-PRESSURE DIFFERENCE OF 1.57

3. WATER PENETRATION: SYSTEMS DO NOT EVIDENCE WATER LEAKAGE WHEN TESTED ACCORDING TO ASTM E 331 AT MINIMUM DIFFERENTIAL PRESSURE OF 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 6.24 lbf/sg. ft. (300 Pa). 4. AVERAGE U-FACTOR: NOT MORE THAN 0.69 Btu/sq. ft. x h x deg. f (3.92 W/sq. m x K) PER AAMA 1503. 5. DOORS: 1<sup>3</sup>/<sub>4</sub>" THICK GLAZED DOORS WITH MINIMUM 0.125" THICK EXTRUDED TUBULAR BAIL AND STILE MEMBERS. MECHANICALLY FASTENED CORNERS WITH REINFORCED BRACKETS THAT ARE DEEP PENETRATION AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE-RODS, SNAP-ON EXTRUDED ALUMINUM GLAZING STOPS, AND PREFORMED GASKETS.

a. INTERIOR DOORS: GLAZE WITH  $\frac{1}{4}$ " CLEAR TEMPERED GLASS. PROVIDE ANSI/BHMA A156.16 SILENCERS. THREE ON STRIKE JAMB OF SINGLE DOOR FRAMES AND TWO ON HEAD OF DOUBLE DOOR FRAMES. b. EXTERIOR DOORS: GLAZE WITH INSULATED TEMPERED GLASS UNITS MATCHING

STOREFRONT GLASS OR CLEAR INSULATED GLASS PER CONSTRUCTION DRAWINGS. PROVIDE COMPRESSION WEATHERSTRIPPING AT FIXED STOPS. AT OTHER LOCATIONS, PROVIDE SLIDING WEATHERSTRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE HARDWARE: PER DOOR SCHEDULE

6. FASTENERS AND ACCESSORIES: COMPATIBLE WITH ADJACENT MATERIALS, CORROSION-RESISTANT. NONSTAINING, AND NONBLEEDING. USE CONCEALED FASTENERS EXCEPT FOR APPLICATION OF DOOR HARDWARE. FURNISH THERMALLY BROKEN HEAD AND JAMB CLIPS AND FURNISH END DAMS AT ALL SILL FLASHING. 7. FABRICATION: FABRICATE FRAMING IN PROFILES INDICATED. PROVIDE SUBFRAMES AND REINFORCING AS REQUIRED FOR A COMPLETE SYSTEM. FACTORY ASSEMBLE COMPONENTS TO GREATEST EXTENT POSSIBLE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION.

a. DOORS FRAMING: REINFORCE TO SUPPORT IMPOSED LOADS. FACTORY ASSEMBLE DOOR AND FRAME UNITS AND FACTORY INSTALL HARDWARE TO GREATEST EXTENT POSSIBLE. REINFORCE DOOR AND FRAME UNITS FOR HARDWARE INDICATED. CUT, DRILL, AND TAP FOR FACTORY-INSTALLED HARDWARE BEFORE FINISHING COMPONENTS. 8. ALUMINUM FINISH: COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" CLEAR ANODIC, ARCHITECTURAL CLASS I: AA-M12C22A41, COMPLYING WITH

ISOLATE METAL SURFACES IN CONTACT WITH INCOMPATIBLE MATERIALS, INCLUDING WOOD, BY PAINTING CONTACT SURFACES WITH BITUMINUOUS COATING OR PRIMER, OR BY APPLYING SEALANT TAPE RECOMMENDED BY MANUFACTURER. 2. INSTALL FRAMING COMPONENTS TO PROVIDE A WEATHERPROOF SYSTEM AND TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES TO THE FOLLOWING TOLERANCES: a. VARIATION FROM PLANE: LIMIT TO  $\frac{1}{8}$ " IN 12 FEET;  $\frac{1}{4}$ " OVER TOTAL LENGTH b. ALIGNMENT: FOR SURFACES ABUTTING LINE, LIMIT OFFSET TO  $\frac{1}{16}$ ". FOR SURFACES MEETING AT CORNERS, LIMIT OFFSET TO  $\frac{1}{3}$ . c. DIAGONAL MEASUREMENTS: LIMIT DIFFERENCE BETWEEN DIAGONAL MEASUREMENTS TO

d. PERIMETER JOINTS: ½" MAXIMUM. 3. INSTALL DOORS WITHOUT WARP OR RACK. ADJUST DOORS AND HARDWARE TO PROVIDE TIGHT FIT AT CONTACT POINTS AND SMOOTH OPERATION.

8.5 D	OOR	HARD	WARE	
	Α.	SUB	MITTAL	S: PRODUCT DATA AND HARDWARE SCHEDULE INDICAT
		QUAI		LOCATED ON EACH DOOR WITH DOOR AND HARDWARE
		TO T	HOSE	USED IN CONSTRUCTION DOCUMENTS.
	В.	HAR	DWARE	E: FURNISH PRODUCTS AS SPECIFIED IN THE HARDWARE
				TION DOCUMENTS AND AS FOLLOWS:
		1.	HING	
			a.	APPROVED MANUFACTURERS: HAGER, MCKINNEY, IVE
			b.	QUANTITY: 3 HINGES FOR DOORS 90" OR LESS IN HEIG
				THAN 90" IN HEIGHT.
			C.	BEARING: BALL BEARING HINGES AT ALL LOCATIONS.
			d.	MATERIAL: STAINLESS STEEL OR BRASS/BRONZE HING
			C.I.	
			e.	PINS: NONREMOVABLE PINS FOR EXTERIOR AND PUBL
			0.	ELSEWHERE.
		2.		(SETS AND LATCHSETS:
		<i>L</i> .	<u>а</u> .	BORED LOCKS AND LATCHES: BHMA A156.2, SERIES 40
			а.	(1) APPROVED PRODUCTS: SCHLAGE ND, SARGENT
			b.	
			Ν.	(1) APPROVED PRODUCTS: SARGENT 80 SERIES, COP
			C.	AUXILIARY LOCKS: BHMA A156.5, GRADE 1
			d.	INTERCONNECTED LOCKS AND LATCHES: BHMA A156.
			e.	MORTISE LOCKS AND LATCHES: BHMA A156.13, SERIES
			01	(1) APPROVED PRODUCTS: SCHLAGE L SERIES, SARC
				ML 2000 SERIES
			f.	TRIM: LEVER HANDLE STYLE PER CONSTRUCTION DOC
				MATCH BUILDING STANDARD. IF NOT SPECIFIED AND I
				SCHLAGE "RHODES"; TRIM ON EXIT DEVICES SHALL MA
			g.	CORES: FULL SIZE INTERCHANGEABLE W/ EVEREST 29
			h.	KEYING: PROVIDE CONSTRUCTION KEYING AND COOR
				MASTER-KEY SYSTEM. FURNISH KEY CONTROL SYSTEM
		3.	CLOS	SERS:
		0.	a.	APPROVED MANUFACTURERS LCN, NORTON, SARGEN
			b.	LOCATION: MOUNT CLOSERS ON INTERIOR (ROOM SID
				REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNT
			C.	OPTIONS: FURNISH ADJUSTABLE DELAYED OPENING (A
			÷.	CLOSERS.
		4.	STOF	PS: FURNISH AND INSTALL WALL OR FLOOR STOPS AS AF
		••		THER INDICATED OR NOT.
		5		THERSTRIPPING: AT ALL EXTERIOR DOORS AND AS SCH

8.5 DOOR HARDWARE		
A. <u>SUBMITTALS</u> : PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND	9.3 ACOUSTICAL TILE CEILINGS A. <u>SUBMITTALS</u> : PRODUCT DATA ONLY D. ATTIC STOCK: FURNISH 28% OF FACH TYPE OF CEILING THE BACKAGED WITH PROTECTIVE COVERING	DIVISION -
QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. B. HARDWARE: FURNISH PRODUCTS AS SPECIFIED IN THE HARDWARE SETS CONTAINED IN THE	<ul> <li>B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CEILING TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. ACOUSTICAL TILE PRODUCTS: PROVIDE CEILING TILE IN TYPE AND SIZES INDICATED IN THE</li> </ul>	10.1 TOILET C A. <u>SL</u> AN
CONSTRUCTION DOCUMENTS AND AS FOLLOWS: 1. HINGES:	CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM E 1264, CLASS A MATERIALS, TESTED PER ASTM E 84.	B. <u>PA</u>
a. APPROVED MANUFACTURERS: HAGER, MCKINNEY, IVES, AND STANLEY b. QUANTITY: 3 HINGES FOR DOORS 90" OR LESS IN HEIGHT; 4 HINGES FOR DOORS MORE	D. <u>SUSPENSION SYSTEM</u> : PROVIDE HEAVY DUTY, DIRECT-HUNG, SUSPENSION SYSTEMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM C 635. FURNISH ALUMINUM GRID IN	
THAN 90" IN HEIGHT. c. BEARING: BALL BEARING HINGES AT ALL LOCATIONS.	SHOWERS, KITCHENS, AND OTHER HIGH-HUMIDITY AREAS. 1. ATTACHMENT DEVICES: SIZE FOR FIVE (5) TIMES THE DESIGN LOAD INDICATED IN ASTM C 635,	
<ul> <li>MATERIAL: STAINLESS STEEL OR BRASS/BRONZE HINGES WITH STAINLESS STEEL PINS FOR EXTERIOR.</li> </ul>	TABLE 1, DIRECT HUNG UNLESS OTHERWISE INDICATED. 2. WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/ (A 641 M),	C. Pli
e. PINS: NONREMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE; NON-RISING ELSEWHERE.	CLASS 1 ZINC COATING, SOFT TEMPER WITH A YIELD STRENGTH AT LEAST THREE (3) TIMES THE HANGER DESIGN LOAD (ASTM C 635, TABLE 1, DIRECT HUNG), BUT NOT LESS THAN 0.135"	C. <u>PII</u> D. <u>BF</u> Of
<ul> <li>2. LOCKSETS AND LATCHSETS:</li> <li>a. BORED LOCKS AND LATCHES: BHMA A156.2, SERIES 4000, GRADE 1,</li> <li>(1) ADDROVED DRODUCTS: SCUL ACE ND. SARCENT 10 LINE. CORDIN DUSSION IN CLASSO</li> </ul>	DIAMETER WIRE. 3. SEISMIC STRUTS: MANUFACTURER'S STANDARD PRODUCT DESIGNED TO ACCOMMODATE SEISMIC FORCES	E. <u>FA</u>
<ul> <li>(1) APPROVED PRODUCTS: SCHLAGE ND, SARGENT 10 LINE, CORBIN RUSSWIN, CL3300</li> <li>b. EXIT DEVICES: BHMA A156.3, GRADE 1</li> <li>(1) APPROVED PRODUCTS: SARGENT 80 SERIES, CORBIN RUSSWIN, VON DUPRIN 98/99</li> </ul>	SEISMIC FORCES. 4. HOLD-DOWN CLIPS: PROVIDE HOLD-DOWN CLIPS ON CEILING TILE IN ENTRANCE VESTIBULES, COMPUTER ROOMS EMPLOYING DRY CHEMICAL FIRE-SUPPRESSION SYSTEMS, AND OTHER	
<ul> <li>c. AUXILIARY LOCKS: BHMA A156.5, GRADE 1</li> <li>d. INTERCONNECTED LOCKS AND LATCHES: BHMA A156.12, SERIES 5000, GRADE 1</li> </ul>	AREAS AS INDICATED. E. INSTALLATION: COMPLY WITH ASTM C 636 AND CISCA'S "CEILING SYSTEMS HANDBOOK".	č
<ul> <li>e. MORTISE LOCKS AND LATCHES: BHMA A156.13, SERIES 1000, GRADE 1</li> <li>(1) APPROVED PRODUCTS: SCHLAGE L SERIES, SARGENT 8200 SERIES, CORBIN RUSSWIN</li> </ul>	1. SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATION ACTIVITIES HAVE TERMINATED,	
ML 2000 SERIES f. TRIM: LEVER HANDLE STYLE PER CONSTRUCTION DOCUMENTS OR IF NOT SPECIFIED,	AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED. 2. INSTALL CEILING GRID AS INDICATED TO BE SYMMETRICAL ABOUT BOTH AXES OF EACH ROOM	
MATCH BUILDING STANDARD. IF NOT SPECIFIED AND NO STANDARD EXISTS, MATCH SCHLAGE "RHODES"; TRIM ON EXIT DEVICES SHALL MATCH LOCKSETS.	USING NOT LESS THAN HALF-SIZE TILE UNLESS INDICATED OTHERWISE ON THE REFLECTED CEILING PLAN.	
<ul> <li>g. CORES: FULL SIZE INTERCHANGEABLE W/ EVEREST 29 S123 KEYWAY STANDARD.</li> <li>h. KEYING: PROVIDE CONSTRUCTION KEYING AND COORDINATE FINAL KEYING WITH OWNER'S MASTER-KEY SYSTEM. FURNISH KEY CONTROL SYSTEM, INCLUDING CABINET.</li> </ul>	<ol> <li>SUPPORT SUSPENSION SYSTEM INDEPENDENTLY OF DUCTS, PIPES, AND CONDUITS.</li> <li>SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6" OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY.</li> </ol>	
<ul> <li>a. APPROVED MANUFACTURERS LCN, NORTON, SARGENT</li> </ul>	5. PROVIDE MATCHING PERIMETER MOLDING INSTALLED IN BEAD OF ACOUSTICAL SEALANT AT ALL LOCATIONS WHERE CEILING INTERSECTS VERTICAL SURFACES. USE MATCHING PRE-FORMED	F. IN PII
b. LOCATION: MOUNT CLOSERS ON INTERIOR (ROOM SIDE) OF DOOR OPENING. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS NECESSARY.	<ul><li>CLOSURES AT ROUND OR CURVED OBSTRUCTIONS.</li><li>6. FIELD-CUT EDGES SHALL MATCH PROFILE OF FACTORY EDGES.</li></ul>	US TH
<ul> <li>OPTIONS: FURNISH ADJUSTABLE DELAYED OPENING (ADA ACCESSIBLE) FEATURE ON ALL CLOSERS.</li> </ul>	9.4 RESILIENT FLOOR TILE AND WALL BASE	1
<ol> <li>STOPS: FURNISH AND INSTALL WALL OR FLOOR STOPS AS APPROPRIATE FOR ALL DOORS WHETHER INDICATED OR NOT.</li> </ol>	A. <u>SUBMITTALS</u> : PRODUCT DATA AND THREE (3) SAMPLES OF EACH TILE AND BASE SPECIFIED FOR VERIFICATION PURPOSES.	
<ol> <li>WEATHERSTRIPPING: AT ALL EXTERIOR DOORS AND AS SCHEDULED, PROVIDE WEATHERSTRIPPING ON HEAD AND JAMBS AND DRIP-SWEEP AT SILL.</li> <li>SMOKE GASKETING: PROVIDE SMOKE GASKETING AT ALL FIRE-RATED DOORS.</li> </ol>	B. <u>ATTIC STOCK</u> : FURNISH ONE (1) BOX FOR EACH 50 BOXES OR FRACTION THEREOF OF EACH TYPE OF FLOOR TILE AND 20' OF EACH COLOR AND TYPE OF WALL BASE PACKAGED WITH PROTECTIVE	10.2 SIGNS:
7. THRESHOLDS: PROVIDE THRESHOLDS AT ALL EXTERIOR DOORS AND AS SCHEDULED. C. INSTALLATION: MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND HARDWARE	COVERING AND LABELED FOR STORAGE. C. RESILIENT TILE PRODUCTS: PROVIDE FLOOR TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION	A. RE B. M/
INSTITUTE, UNLESS OTHERWISE INDICATED.	DOCUMENTS COMPLYING WITH THE FOLLOWING: 1. VINYL COMPOSITION TILE: 12"x12"X <sup>1</sup> / <sub>8</sub> " COMPLYING WITH ASTM F 1066. 2. SOLID VINYL THE: 12"X12"X <sup>1</sup> /4" COMPLYING WITH ASTM F 1700.	
8.6 GLAZING	<ol> <li>SOLID VINYL TILE: 12"X12"X<sup>1</sup>/<sub>8</sub>" COMPLYING WITH ASTM F 1700</li> <li>RUBBER FLOOR TILE: 24"X24"X<sup>1</sup>/<sub>8</sub>" COMPLYING WITH ASTM F 1344.</li> <li>STATIC DISSIPATIVE TILE: 12"X12"X<sup>1</sup>/<sub>8</sub>" GROUNDED PER MFR. RECOMMENDATIONS.</li> </ol>	10.3 FIRE EXT A. RE
A. <u>QUALITY STANDARDS:</u> 1. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR	<ul> <li>D. <u>RESILIENT WALL BASE</u>: ASTM TYPE TS (RUBBER, VULCANIZED THERMOSET) <sup>1</sup>/<sub>8</sub>" THICK, FURNISHED IN COILS IN STYLES AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS WITH JOB-FORMED INSIDE</li> </ul>	AN 10.4 TOILET A
<ol> <li>1201 AND ANSI Z97.1.</li> <li>2. GLAZING PUBLICATIONS: WHERE APPLICABLE, COMPLY WITH WITH THE PUBLISHED</li> </ol>	AND OUTSIDE CORNERS. E. <u>INSTALLATION ACCESSORIES</u> :	A. RE AC
RECOMMENDATIONS OF THE FOLLOWING: a. GANA PUBLICATIONS: "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE". b. SIGMA PUBLICATIONS: SIGMA TM-3000, "VERTICAL GLAZING GUIDELINES"	1. LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT, OR BLENDED HYDRAULIC CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY FLOORING	DIVISION <sup>-</sup>
B. <u>GLASS</u> 1. FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY g3	MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS. 2. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS	11.1 APPLIAN A. RE
2. HEAT-TREATED FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRED BY CODE OR INSTALLATION	PRODUCTS AND SUBSTRATE CONDITIONS. F. <u>TILE INSTALLATION</u> : 1. PREPARE CONCRETE SUBSTRATES PER ASTM F 710. VERIFY THAT SUBSTRATES ARE DRY AND	FL
CONDITIONS. 3. MIRROR GLASS: ASTM C 1036, TYPE I, CLASS 1, QUALITY q1, SILVER COATED PER FS DDM411C,	FREE OF CURING COMPOUNDS, SEALERS AND HARDENERS. 2. LAY OUT TILES SO WIDTHS AT OPPOSITE EDGES OF ROOM ARE EQUAL AND NOT LESS THAN	DIVISION -
6.0mm THICK, WITH EDGES FLAT POLISHED. C. <u>FABRICATED GLASS PRODUCTS:</u>	HALF-WIDTH. 3. LAY TILES IN PATTERNS INDICATED WITH GRAIN DIRECTION ALTERNATING IN ADJACENT TILES,	
<ol> <li>SEALED INSULATING-GLASS UNITS: PREASSEMBLED UNITS COMPLYING WITH ASTM E 774 FOR CLASS CBA UNITS WITH TWO SHEETS OF GLASS SEPARATED BY A 1/2-INCH DEHYDRATED SPACE FILLED WITH AIR. EXTERIOR GLASS COLOR TO MATCH EXISTING. INTERIOR GLASS SHALL BE</li> </ol>	<ul> <li>UNLESS NOTED OTHERWISE.</li> <li>4. CLEAN, SEAL, AND WAX RESILIENT FLOORING IN ACCORDANCE WITH MANUFACTURER'S</li> </ul>	12.1 FABRIC F A. <u>SL</u> OF
CLEAR. a. WARRANTY: 10 YEAR WARRANTY TO INCLUDE REPLACEMENT OF SEALED UNITS	INSTRUCTIONS. G. WALL BASE AND ACCESSORY INSTALLATION:	B. W.
EXHIBITING SEAL FAILURE, INTERPANE DUSTING OR MISTING. E. INSTALLATION:	1. CONFIRM THAT SOLID BACKING IS PROVIDED BEHIND ALL WALL BASE. AREAS WHERE GYPSUM BOARD IS HELD MORE THAN $\frac{1}{2}$ " ABOVE SLAB SHALL BE FILLED IN PRIOR TO BASE INSTALLATION.	C. AC D. PF
1. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE	<ol> <li>INSTALL WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE IN MAXIMUM LENGTHS POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT</li> </ol>	D. <u>11</u>
CONTAINED IN GANA'S "GLAZING MANUAL". 2. SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR	FIXTURES. 3. INSTALL TRANSITION STRIPS WHERE FLOORING MATERIALS MEET OR WHERE EDGE OF TILE IS	
CHARACTERISTICS. 3. AFTER GLASS INSTALLATION IS COMPLETE, REMOVE GLAZING MATERIALS AND LABELS FROM FINISHED SURFACES, AND THOROUGHLY CLEAN GLASS AND ADJACENT FRAMING AND	EXPOSED AS INDICATED IN THE FINISH SCHEDULE.	3
SURFACES. REPEAT AS NECESSARY PRIOR TO FINAL WALK-THROUGH.	9.5 CARPET AND CARPET TILE A. <u>SUBMITTALS</u> : THREE (3) SAMPLES OF EACH CARPET OR CARPET TILE SPECIFIED FOR VERIFICATION	
DIVISION 9 - FINISHES	PURPOSES. B. <u>ATTIC STOCK</u> : FURNISH FULL-WIDTH CARPET EQUAL TO 5% OF EACH TYPE AND COLOR CARPET INSTALLED, PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.	2
9.1 GYPSUM BOARD ASSEMBLIES	C. <u>CARPET PRODUCTS</u> : PROVIDE CARPET IN PATTERNS AND COLORS AND WITH BACKINGS AS INDICATED IN THE CONSTRUCTION DOCUMENTS WITH CRITICAL RADIANT FLUX CLASSIFICATION CLASS I, NOT LESS	
A. <u>STEEL FRAMING MEMBERS</u> : COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS:	THAN 0.45 W/SQ. CM PER ASTM E 648. ORDER ALL MATERIALS FROM THE SAME FACTORY DYE LOT. D. INSTALLATION: COMPLY WITH CRI 104, SECTION 6.1, "SITE CONDITIONS; TEMPERATURE AND HUMIDITY".	
<ol> <li>STEEL SHEET COMPONENTS: COMPLY WITH ASTM C645 WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT ZINC COATING.</li> <li>THE MUDE: ASTM A C41/A C41MA CLASS 1 ZINC COATING. SOFT TEMPER. 000511 DIAMETER OR</li> </ol>	FOR BROADLOOM PRODUCTS COMPLY WITH CRI 104, SECTION 8, "DIRECT GLUE-DOWN" AND SECTION 12 "CARPET ON STAIRS". FOR CARPET TILE COMPLY CRI 104, SECTION 13 "CARPET MODULES (TILES)".	E. <u>IN</u> VE
<ol> <li>TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER0625" DIAMETER OR DOUBLE STRAND OF .0475" DIAMETER WIRE.</li> <li>WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER0162" DIAMETER.</li> </ol>	<ol> <li>VERIFY CARPET MATCH PRIOR TO CUTTING TO CONFIRM NO VARIATION BETWEEN DYE LOTS.</li> <li>LAY CARPET TILE IN PATTERN AS INDICATED ON CONSTRUCTION DOCUMENTS AND SO WIDTHS</li> </ol>	v E 1
<ul> <li>B. <u>PANEL PRODUCTS</u>: PROVIDE IN THICKNESS AND TYPE INDICATED IN THE CONSTRUCTION DRAWINGS IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS FOLLOWS:</li> </ul>	AT OPPOSITE EDGES OF ROOM ARE EQUAL AND NOT LESS THAN HALF-WIDTH. 3. LAY OUT BROADLOOOM CARPET TO LOCATE SEAMS IN AREAS OF LEAST TRAFFIC, AND OUT OF AREAS OF PIVOTING TRAFFIC. AT DOORWAYS, CENTER SEAMS UNDER DOOR IN CLOSED	
<ol> <li>GYPSUM WALLBOARD: ASTM C 1396, TYPE 'X' WITH TAPERED EDGES, SAG-RESISTANT TYPE FOR CEILING SURFACES.</li> </ol>	POSITION. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET MANUFACTURER. 4. MAINTAIN UNIFORMITY OF CARPET DIRECTION AND LAY OF PILE WITH PATTERN PARALLEL TO	
2. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630, TYPE 'X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED	<ul><li>WALLS.</li><li>5. INSTALL BROADLOOM CARPET IN MANUFACTURER'S RECOMMENDED CONTACT ADHESIVE AND</li></ul>	3
C. <u>ACCESSORIES</u> : 1. TRIM: ASTM 1047, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED ZINC, OR PLASTIC	CARPET TILE IN MANUFACTURER'S RECOMMENDED EASY RELEASE ADHESIVE. ROLL WITH APPROPRIATE ROLLER FOR COMPLETE CONTACT OF ADHESIVE TO CARPET BACKING.	
a. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE b. EXPOSED PANEL EDGES: PROVIDE LC-BEAD (J-BEAD) UNLESS NOTED OTHERWISE; USE	<ol> <li>TRIM CARPET NEATLY AND TIGHT TO WALLS AND AROUND INTERRUPTIONS</li> <li>INSTALL TRANSITION STRIPS AT CARPET TERMINATIONS AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS</li> </ol>	DIVISION -
<ul> <li>TEAR-AWAY BEAD WHERE GYP. BD. MEETS WINDOW FRAMES OR CEILING GRID.</li> <li>CONTROL JOINTS: PROVIDE WHERE INDICATED OR APPROXIMATELY 30'-0" MAX. CONTACT</li> </ul>	DOCUMENTS.	13.1 FIRE ALA
ARCHITECT FOR LOCATIONS IF NOT INDICATED. 2. SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED)	9.6 PAINTING A. <u>SUBMITTALS</u> : PRODUCT DATA AND THREE (3) DRAW-DOWN SAMPLES OF EACH COLOR AND SHEEN	A. CO B. <u>HO</u>
3. ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PAINTABLE, NONSTAINING LATEX. D. <u>INSTALLATION</u> :	SPECIFIED. B. <u>ATTIC STOCK</u> : FURNISH ONE (1) GALLON OF EACH PAINT COLOR AND SHEEN, IN CONTAINERS, PROPERLY LABELED AND SEALED.	TC 13.2 FIRE SUF
<ol> <li>FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT AND PROVIDE BRACING AS</li> </ol>	C. <u>PRODUCTS</u> : PROVIDE MANUFACTURER'S BEST QUALITY PAINTS OF COLOR AND SHEEN AS INDICATED IN THE CONSTRUCTION DOCUMENTS THAT ARE FORMULATED AND RECOMMENDED BY	A. CO B. SU
NECESSARY FOR PROPER SUPPORT WHETHER INDICATED OR NOT. 2. GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD	MANUFACTURER FOR APPLICATION INDICATED. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.	At RE
ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK AND FINISH AS FOLLOWS: a. LEVEL 1 (EMBED TAPE AT JOINTS): AT CONCEALED AREAS UNLESS A HIGHER LEVEL IS	<ul> <li>D. <u>APPLICATION</u>:</li> <li>1. EQUIPMENT: APPLY COATINGS BY BRUSH, ROLLER, SPRAY, OR OTHER APPLICATORS</li> </ul>	AF C. <u>SF</u>
INDICATED OR REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLY. b. LEVEL 2 (EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE.	ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. WHEN SPRAYED, EXTERIOR COATINGS SHALL BE BACK-ROLLED FOLLOWING SPRAY APPLICATION. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS	SH G` D. LA
FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT): AT SUBSTRATES BEHIND TILE.	FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS. 2. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE. PROVIDE A FINISH FREE OF CLOUDINESS.	D. <u>D</u> . Sl CE
C. LEVEL 4 (EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT): AT ALL WALLS RECEIVING FLAT, EGGSHELL, OR SATIN SHEEN PAINT OR	SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS.	
d. LEVEL 5 (EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT	E. <u>PAINT SYSTEMS - INTERIOR</u> : PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE INTERIOR SUBSTRATE INDICATED	DIVISION <sup>-</sup>
COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY THIN SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH COAT): AT	<ol> <li>GYPSUM BOARD: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER PRIMER</li> <li>NATURAL FINISH WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER</li> </ol>	15.1 GENERA A. CO B. IF
ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD CEILINGS)	<ol> <li>FERROUS METAL: SEMIGLOSS ACRYLIC ENAMEL: TWO COATS OVER FERROUS METAL PRIMER</li> <li>ZINC COATED METAL: ACRYLIC ENAMEL; GLOSS: TWO COATS OVER GALVANIZED METAL PRIMER</li> </ol>	DE "P
	9.7 FIBERGLASS REINFORCED PLASTIC PANELS (FRP): INSTALL FRP PANELS TO 8'-0" HIGH AND INCLUDING TRIM AND ACCESSORIES HIGH ON ALL WALLS BEHIND JANITOR SINKS AND MOP BASINS (COLOR PER SCHEDULE).	DIVISION -
<ul> <li>A. <u>SUBMITTALS</u>: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF</li> <li>EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.</li> <li>ATTIC STOCK: EURNISH 2% OF EACH TYPE OF CERAMIC THE PACKAGED WITH PROTECTIVE COVERING</li> </ul>		16.1 GENERA
<ul> <li>B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CERAMIC TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. TILE: COMPLY WITH STANDARD GRADE REQUIREMENTS IN ANSI A137.1 "SPECIFICATIONS FOR CERAMIC</li> </ul>		A. ( 16.2 WIRING [
TILE" FOR PRODUCTS AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS. D. INSTALLATION MATERIALS:		A. [ B. ]
1. THIN-SET MORTAR: a. TYPICAL INTERIOR INSTALLATIONS: LATEX/POLYMER MODIFIED PORTLAND CEMENT		-
COMPLYING WITH ANSI A108.5 AND ANSI 118.4. 2. GROUT: UNSANDED FOR JOINTS $\frac{1}{16}$ WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN $\frac{1}{16}$ IN		

<ul> <li>DOOR HARDWARE</li> <li>A. <u>SUBMITTALS</u>: PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.</li> <li>B. <u>HARDWARE</u>: FURNISH PRODUCTS AS SPECIFIED IN THE HARDWARE SETS CONTAINED IN THE CONSTRUCTION DOCUMENTS AND AS FOLLOWS:         <ol> <li>HINGES:</li> <li>APPROVED MANUFACTURERS: HAGER, MCKINNEY, IVES, AND STANLEY</li> </ol> </li> </ul>	<ul> <li>9.3 ACOUSTICAL TILE CEILINGS <ul> <li>A. <u>SUBMITTALS</u>: PRODUCT DATA ONLY</li> <li>B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CEILING TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. <u>ACOUSTICAL TILE PRODUCTS</u>: PROVIDE CEILING TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM E 1264, CLASS A MATERIALS, TESTED PER ASTM E 84.</li> <li>D. <u>SUSPENSION SYSTEM</u>: PROVIDE HEAVY DUTY, DIRECT-HUNG, SUSPENSION SYSTEMS AS INDICATED IN</li> </ul></li></ul>	<u>DIV</u> 10.1
<ul> <li>b. QUANTITY: 3 HINGES FOR DOORS 90" OR LESS IN HEIGHT; 4 HINGES FOR DOORS MORE THAN 90" IN HEIGHT.</li> <li>c. BEARING: BALL BEARING HINGES AT ALL LOCATIONS.</li> <li>d. MATERIAL: STAINLESS STEEL OR BRASS/BRONZE HINGES WITH STAINLESS STEEL PINS FOR EXTERIOR.</li> <li>e. PINS: NONREMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE; NON-RISING ELSEWHERE.</li> <li>2. LOCKSETS AND LATCHSETS:</li> <li>a. BORED LOCKS AND LATCHES: BHMA A156.2, SERIES 4000, GRADE 1,</li> </ul>	<ul> <li>THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM C 635. FURNISH ALUMINUM GRID IN SHOWERS, KITCHENS, AND OTHER HIGH-HUMIDITY AREAS.</li> <li>1. ATTACHMENT DEVICES: SIZE FOR FIVE (5) TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, DIRECT HUNG UNLESS OTHERWISE INDICATED.</li> <li>2. WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/ (A 641 M), CLASS 1 ZINC COATING, SOFT TEMPER WITH A YIELD STRENGTH AT LEAST THREE (3) TIMES THE HANGER DESIGN LOAD (ASTM C 635, TABLE 1, DIRECT HUNG), BUT NOT LESS THAN 0.135" DIAMETER WIRE.</li> <li>3. SEISMIC STRUTS: MANUFACTURER'S STANDARD PRODUCT DESIGNED TO ACCOMMODATE</li> </ul>	
<ul> <li>(1) APPROVED PRODUCTS: SCHLAGE ND, SARGENT 10 LINE, CORBIN RUSSWIN, CL3300</li> <li>b. EXIT DEVICES: BHMA A156.3, GRADE 1 <ul> <li>(1) APPROVED PRODUCTS: SARGENT 80 SERIES, CORBIN RUSSWIN, VON DUPRIN 98/99</li> </ul> </li> <li>c. AUXILIARY LOCKS: BHMA A156.5, GRADE 1</li> <li>d. INTERCONNECTED LOCKS AND LATCHES: BHMA A156.12, SERIES 5000, GRADE 1</li> <li>e. MORTISE LOCKS AND LATCHES: BHMA A156.13, SERIES 1000, GRADE 1 <ul> <li>(1) APPROVED PRODUCTS: SCHLAGE L SERIES, SARGENT 8200 SERIES, CORBIN RUSSWIN ML 2000 SERIES</li> </ul> </li> <li>f. TRIM: LEVER HANDLE STYLE PER CONSTRUCTION DOCUMENTS OR IF NOT SPECIFIED, MATCH BUILDING STANDARD. IF NOT SPECIFIED AND NO STANDARD EXISTS, MATCH</li> </ul>	<ul> <li>SEISMIC FORCES.</li> <li>4. HOLD-DOWN CLIPS: PROVIDE HOLD-DOWN CLIPS ON CEILING TILE IN ENTRANCE VESTIBULES, COMPUTER ROOMS EMPLOYING DRY CHEMICAL FIRE-SUPPRESSION SYSTEMS, AND OTHER AREAS AS INDICATED.</li> <li>E. <u>INSTALLATION</u>: COMPLY WITH ASTM C 636 AND CISCA'S "CEILING SYSTEMS HANDBOOK".</li> <li>1. SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATION ACTIVITIES HAVE TERMINATED, AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED.</li> <li>2. INSTALL CEILING GRID AS INDICATED TO BE SYMMETRICAL ABOUT BOTH AXES OF EACH ROOM USING NOT LESS THAN HALF-SIZE TILE UNLESS INDICATED OTHERWISE ON THE REFLECTED</li> </ul>	
<ul> <li>SCHLAGE "RHODES"; TRIM ON EXIT DEVICES SHALL MATCH LOCKSETS.</li> <li>g. CORES: FULL SIZE INTERCHANGEABLE W/ EVEREST 29 S123 KEYWAY STANDARD.</li> <li>h. KEYING: PROVIDE CONSTRUCTION KEYING AND COORDINATE FINAL KEYING WITH OWNER'S MASTER-KEY SYSTEM. FURNISH KEY CONTROL SYSTEM, INCLUDING CABINET.</li> <li>3. CLOSERS: <ul> <li>a. APPROVED MANUFACTURERS LCN, NORTON, SARGENT</li> <li>b. LOCATION: MOUNT CLOSERS ON INTERIOR (ROOM SIDE) OF DOOR OPENING. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS NECESSARY.</li> <li>c. OPTIONS: FURNISH ADJUSTABLE DELAYED OPENING (ADA ACCESSIBLE) FEATURE ON ALL</li> </ul> </li> </ul>	<ol> <li>CEILING PLAN.</li> <li>SUPPORT SUSPENSION SYSTEM INDEPENDENTLY OF DUCTS, PIPES, AND CONDUITS.</li> <li>SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6" OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY.</li> <li>PROVIDE MATCHING PERIMETER MOLDING INSTALLED IN BEAD OF ACOUSTICAL SEALANT AT ALL LOCATIONS WHERE CEILING INTERSECTS VERTICAL SURFACES. USE MATCHING PRE-FORMED CLOSURES AT ROUND OR CURVED OBSTRUCTIONS.</li> <li>FIELD-CUT EDGES SHALL MATCH PROFILE OF FACTORY EDGES.</li> </ol>	
<ul> <li>CLOSERS.</li> <li>4. STOPS: FURNISH AND INSTALL WALL OR FLOOR STOPS AS APPROPRIATE FOR ALL DOORS WHETHER INDICATED OR NOT.</li> <li>5. WEATHERSTRIPPING: AT ALL EXTERIOR DOORS AND AS SCHEDULED, PROVIDE WEATHERSTRIPPING ON HEAD AND JAMBS AND DRIP-SWEEP AT SILL.</li> <li>6. SMOKE GASKETING: PROVIDE SMOKE GASKETING AT ALL FIRE-RATED DOORS.</li> <li>7. THRESHOLDS: PROVIDE THRESHOLDS AT ALL EXTERIOR DOORS AND AS SCHEDULED.</li> <li>C. <u>INSTALLATION:</u> MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE, UNLESS OTHERWISE INDICATED.</li> </ul>	<ul> <li>9.4 RESILIENT FLOOR TILE AND WALL BASE</li> <li>A. <u>SUBMITTALS</u>: PRODUCT DATA AND THREE (3) SAMPLES OF EACH TILE AND BASE SPECIFIED FOR VERIFICATION PURPOSES.</li> <li>B. <u>ATTIC STOCK</u>: FURNISH ONE (1) BOX FOR EACH 50 BOXES OR FRACTION THEREOF OF EACH TYPE OF FLOOR TILE AND 20' OF EACH COLOR AND TYPE OF WALL BASE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. <u>RESILIENT TILE PRODUCTS</u>: PROVIDE FLOOR TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH THE FOLLOWING: <ol> <li>VINYL COMPOSITION TILE: 12"x12"X<sup>1</sup>/<sub>8</sub>" COMPLYING WITH ASTM F 1066.</li> </ol> </li> </ul>	10.2
<ul> <li>GLAZING</li> <li>A. <u>QUALITY STANDARDS:</u> <ol> <li>SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 AND ANSI Z97.1.</li> <li>GLAZING PUBLICATIONS: WHERE APPLICABLE, COMPLY WITH WITH THE PUBLISHED RECOMMENDATIONS OF THE FOLLOWING:</li> </ol> </li> </ul>	<ol> <li>SOLID VINYL TILE: 12"X12"X%" COMPLYING WITH ASTM F 1700</li> <li>RUBBER FLOOR TILE: 24"X24"X%" COMPLYING WITH ASTM F 1344.</li> <li>STATIC DISSIPATIVE TILE: 12"X12"X%" GROUNDED PER MFR. RECOMMENDATIONS.</li> <li><u>RESILIENT WALL BASE</u>: ASTM TYPE TS (RUBBER, VULCANIZED THERMOSET) %" THICK, FURNISHED IN COILS IN STYLES AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS WITH JOB-FORMED INSIDE AND OUTSIDE CORNERS.</li> <li><u>INSTALLATION ACCESSORIES</u>:         <ol> <li>LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT, OR BLENDED</li> </ol> </li> </ol>	10.3 10.4
<ul> <li>a. GANA PUBLICATIONS: "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE".</li> <li>b. SIGMA PUBLICATIONS: SIGMA TM-3000, "VERTICAL GLAZING GUIDELINES"</li> <li>B. <u>GLASS</u> <ol> <li>FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY q3</li> <li>FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY q3</li> <li>HEAT-TREATED FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRED BY CODE OR INSTALLATION</li> </ol> </li> </ul>	<ul> <li>HYDRAULIC CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY FLOORING MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS.</li> <li>2. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS.</li> <li>F. <u>TILE INSTALLATION</u>:         <ul> <li>PREPARE CONCRETE SUBSTRATES PER ASTM F 710. VERIFY THAT SUBSTRATES ARE DRY AND</li> </ul> </li> </ul>	<u>DIVI</u> 11.1
<ul> <li>CONDITIONS.</li> <li>3. MIRROR GLASS: ASTM C 1036, TYPE I, CLASS 1, QUALITY q1, SILVER COATED PER FS DDM411C, 6.0mm THICK, WITH EDGES FLAT POLISHED.</li> <li>C. <u>FABRICATED GLASS PRODUCTS:</u> <ol> <li>SEALED INSULATING-GLASS UNITS: PREASSEMBLED UNITS COMPLYING WITH ASTM E 774 FOR CLASS CBA UNITS WITH TWO SHEETS OF GLASS SEPARATED BY A 1/2-INCH DEHYDRATED SPACE</li> </ol> </li> </ul>	<ul> <li>FREE OF CURING COMPOUNDS, SEALERS AND HARDENERS.</li> <li>2. LAY OUT TILES SO WIDTHS AT OPPOSITE EDGES OF ROOM ARE EQUAL AND NOT LESS THAN HALF-WIDTH.</li> <li>3. LAY TILES IN PATTERNS INDICATED WITH GRAIN DIRECTION ALTERNATING IN ADJACENT TILES, UNLESS NOTED OTHERWISE.</li> <li>4. CLEAN, SEAL, AND WAX RESILIENT FLOORING IN ACCORDANCE WITH MANUFACTURER'S</li> </ul>	<u>DIV</u> 12.1
FILLED WITH AIR. EXTERIOR GLASS COLOR TO MATCH EXISTING. INTERIOR GLASS SHALL BE CLEAR. a. WARRANTY: 10 YEAR WARRANTY TO INCLUDE REPLACEMENT OF SEALED UNITS EXHIBITING SEAL FAILURE, INTERPANE DUSTING OR MISTING. E. <u>INSTALLATION:</u> 1. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS,	<ul> <li>INSTRUCTIONS.</li> <li>G. <u>WALL BASE AND ACCESSORY INSTALLATION</u>: <ol> <li>CONFIRM THAT SOLID BACKING IS PROVIDED BEHIND ALL WALL BASE. AREAS WHERE GYPSUM BOARD IS HELD MORE THAN <sup>1</sup>/<sub>2</sub>" ABOVE SLAB SHALL BE FILLED IN PRIOR TO BASE INSTALLATION.</li> <li>INSTALL WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE IN MAXIMUM LENGTHS</li> </ol></li></ul>	
<ul> <li>GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL".</li> <li>2. SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR CHARACTERISTICS.</li> <li>3. AFTER GLASS INSTALLATION IS COMPLETE, REMOVE GLAZING MATERIALS AND LABELS FROM FINISHED SURFACES, AND THOROUGHLY CLEAN GLASS AND ADJACENT FRAMING AND</li> </ul>	<ul> <li>POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT FIXTURES.</li> <li>3. INSTALL TRANSITION STRIPS WHERE FLOORING MATERIALS MEET OR WHERE EDGE OF TILE IS EXPOSED AS INDICATED IN THE FINISH SCHEDULE.</li> </ul>	
SURFACES. REPEAT AS NECESSARY PRIOR TO FINAL WALK-THROUGH.	<ul> <li>9.5 CARPET AND CARPET TILE</li> <li>A. <u>SUBMITTALS</u>: THREE (3) SAMPLES OF EACH CARPET OR CARPET TILE SPECIFIED FOR VERIFICATION PURPOSES.</li> <li>B. ATTIC STOCK: FURNISH FULL-WIDTH CARPET EQUAL TO 5% OF EACH TYPE AND COLOR CARPET</li> </ul>	
<ul> <li>VISION 9 - FINISHES</li> <li>GYPSUM BOARD ASSEMBLIES <ul> <li>A. STEEL FRAMING MEMBERS: COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS:</li> <li>1. STEEL SHEET COMPONENTS: COMPLY WITH ASTM C645 WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT ZINC COATING.</li> <li>2. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER0625" DIAMETER OR DOUBLE STRAND OF .0475" DIAMETER WIRE.</li> <li>3. WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER0162" DIAMETER.</li> <li>B. PANEL PRODUCTS: PROVIDE IN THICKNESS AND TYPE INDICATED IN THE CONSTRUCTION DRAWINGS IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS FOLLOWS:</li> <li>1. GYPSUM WALLBOARD: ASTM C 1396, TYPE 'X' WITH TAPERED EDGES, SAG-RESISTANT TYPE FOR</li> </ul> </li> </ul>	<ul> <li>INSTALLED, PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. <u>CARPET PRODUCTS</u>: PROVIDE CARPET IN PATTERNS AND COLORS AND WITH BACKINGS AS INDICATED IN THE CONSTRUCTION DOCUMENTS WITH CRITICAL RADIANT FLUX CLASSIFICATION CLASS I, NOT LESS THAN 0.45 W/SQ. CM PER ASTM E 648. ORDER ALL MATERIALS FROM THE SAME FACTORY DYE LOT.</li> <li>D. <u>INSTALLATION</u>: COMPLY WITH CRI 104, SECTION 6.1, "SITE CONDITIONS; TEMPERATURE AND HUMIDITY". FOR BROADLOOM PRODUCTS COMPLY WITH CRI 104, SECTION 8, "DIRECT GLUE-DOWN" AND SECTION 12 "CARPET ON STAIRS". FOR CARPET TILE COMPLY CRI 104, SECTION 13 "CARPET MODULES (TILES)".</li> <li>1. VERIFY CARPET MATCH PRIOR TO CUTTING TO CONFIRM NO VARIATION BETWEEN DYE LOTS.</li> <li>2. LAY CARPET TILE IN PATTERN AS INDICATED ON CONSTRUCTION DOCUMENTS AND SO WIDTHS AT OPPOSITE EDGES OF ROOM ARE EQUAL AND NOT LESS THAN HALF-WIDTH.</li> <li>3. LAY OUT BROADLOOOM CARPET TO LOCATE SEAMS IN AREAS OF LEAST TRAFFIC, AND OUT OF AREAS OF PIVOTING TRAFFIC. AT DOORWAYS, CENTER SEAMS UNDER DOOR IN CLOSED</li> </ul>	
<ul> <li>CEILING SURFACES.</li> <li>WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630, TYPE 'X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED</li> <li>C. <u>ACCESSORIES</u>:         <ol> <li>TRIM: ASTM 1047, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED ZINC, OR PLASTIC</li> </ol> </li> </ul>	<ul> <li>POSITION. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET MANUFACTURER.</li> <li>4. MAINTAIN UNIFORMITY OF CARPET DIRECTION AND LAY OF PILE WITH PATTERN PARALLEL TO WALLS.</li> <li>5. INSTALL BROADLOOM CARPET IN MANUFACTURER'S RECOMMENDED CONTACT ADHESIVE AND CARPET TILE IN MANUFACTURER'S RECOMMENDED EASY RELEASE ADHESIVE. ROLL WITH APPROPRIATE ROLLER FOR COMPLETE CONTACT OF ADHESIVE TO CARPET BACKING.</li> <li>6. TRIM CARPET NEATLY AND TIGHT TO WALLS AND AROUND INTERRUPTIONS</li> </ul>	
<ul> <li>a. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE</li> <li>b. EXPOSED PANEL EDGES: PROVIDE LC-BEAD (J-BEAD) UNLESS NOTED OTHERWISE; USE TEAR-AWAY BEAD WHERE GYP. BD. MEETS WINDOW FRAMES OR CEILING GRID.</li> <li>c. CONTROL JOINTS: PROVIDE WHERE INDICATED OR APPROXIMATELY 30'-0" MAX. CONTACT ARCHITECT FOR LOCATIONS IF NOT INDICATED.</li> <li>2. SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED)</li> </ul>	<ul> <li>7. INSTALL TRANSITION STRIPS AT CARPET TERMINATIONS AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS.</li> <li>9.6 PAINTING         <ul> <li>A. SUBMITTALS: PRODUCT DATA AND THREE (3) DRAW-DOWN SAMPLES OF EACH COLOR AND SHEEN</li> </ul> </li> </ul>	<u>DIV</u> 13.1
<ol> <li>ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PAINTABLE, NONSTAINING LATEX.</li> <li>INSTALLATION:         <ol> <li>FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT AND PROVIDE BRACING AS NECESSARY FOR PROPER SUPPORT WHETHER INDICATED OR NOT.</li> <li>GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK AND FINISH AS FOLLOWS:</li></ol></li></ol>	<ul> <li>SPECIFIED.</li> <li>B. <u>ATTIC STOCK</u>: FURNISH ONE (1) GALLON OF EACH PAINT COLOR AND SHEEN, IN CONTAINERS, PROPERLY LABELED AND SEALED.</li> <li>C. <u>PRODUCTS</u>: PROVIDE MANUFACTURER'S BEST QUALITY PAINTS OF COLOR AND SHEEN AS INDICATED IN THE CONSTRUCTION DOCUMENTS THAT ARE FORMULATED AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.</li> <li>D. <u>APPLICATION</u>: <ol> <li>EQUIPMENT: APPLY COATINGS BY BRUSH, ROLLER, SPRAY, OR OTHER APPLICATORS ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. WHEN SPRAYED, EXTERIOR COATINGS SHALL BE BACK-ROLLED FOLLOWING SPRAY APPLICATION. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS.</li> <li>PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE. PROVIDE A FINISH FREE OF CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR OTHER SURFACE</li> </ol> </li> </ul>	13.2
<ul> <li>COAT): AT ALL WALLS RECEIVING FLAT, EGGSHELL, OR SATIN SHEEN PAINT OR WALLCOVERING)</li> <li>d. LEVEL 5 (EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY THIN SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH COAT): AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD CEILINGS)</li> </ul>	<ul> <li>IMPERFECTIONS.</li> <li>E. <u>PAINT SYSTEMS - INTERIOR</u>: PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE INTERIOR SUBSTRATE INDICATED</li> <li>1. GYPSUM BOARD: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER PRIMER</li> <li>2. NATURAL FINISH WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER</li> <li>3. FERROUS METAL: SEMIGLOSS ACRYLIC ENAMEL: TWO COATS OVER FERROUS METAL PRIMER</li> <li>4. ZINC COATED METAL: ACRYLIC ENAMEL; GLOSS: TWO COATS OVER GALVANIZED METAL PRIMER</li> </ul>	<u>DIV</u> 15.1
CERAMIC TILE A. <u>SUBMITTALS</u> : PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF	9.7 FIBERGLASS REINFORCED PLASTIC PANELS (FRP): INSTALL FRP PANELS TO 8'-0" HIGH AND INCLUDING TRIM AND ACCESSORIES HIGH ON ALL WALLS BEHIND JANITOR SINKS AND MOP BASINS (COLOR PER SCHEDULE).	DIV
<ul> <li>EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.</li> <li>B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CERAMIC TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.</li> <li>C. <u>TILE</u>: COMPLY WITH STANDARD GRADE REQUIREMENTS IN ANSI A137.1 "SPECIFICATIONS FOR CERAMIC TILE" FOR PRODUCTS AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS.</li> <li>D. <u>INSTALLATION MATERIALS</u>: <ol> <li>THIN-SET MORTAR:</li> <li>TYPICAL INTERIOR INSTALLATIONS: LATEX/POLYMER MODIFIED PORTLAND CEMENT COMPLYING WITH ANSI A108.5 AND ANSI 118.4.</li> </ol> </li> <li>2. GROUT: UNSANDED FOR JOINTS <sup>1</sup>/<sub>16</sub>" WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN <sup>1</sup>/<sub>16</sub>" IN</li> </ul>		16.1 16.2

2. GROUT: UNSANDED FOR JOINTS  $\frac{1}{16}$  WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN  $\frac{1}{16}$  IN COLOR INDICATED OR TO BE SELECTED. a. TYPICAL INTERIOR INSTALLATIONS: STANDARD CEMENT GROUT WITH INTEGRAL STAIN INHIBITORS (TEC ACCUCOLOR XT, OR EQUAL) 3. SETTING BED ACCESSORIES: ANSI A 108.1A E. INSTALLATION METHODS: COMPLY WITH TILE INSTALLATION STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" AND TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" THAT APPLY TO THE MATERIALS AND METHODS INDICATED BELOW:

1. OVER GYPSUM BOARD: TCA W243 (THIN-SET MORTAR BONDED TO GYPSUM BOARD) 3. ELEVATED CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SLAB) F. TERMINATIONS: WHERE CUT TILE IS SPECIFIED AS THE TOP COURSE ON WALL WAINSCOTING OR WALL BASE WITH AN EXPOSED TOP EDGE, THE FACTORY EDGE SHALL BE USED AS THE EXPOSED EDGE. G. CONFLICTS: IF NOT ADDRESSED ON DRAWINGS, WHERE ELECTRICAL DEVICES OR TOILET ACCESSORIES STRADDLE THE TRANSITION FROM THE TOP EDGE OF WAINSCOT WALL TILE TO GYPSUM

BOARD SUBSTRATE, CONTACT ARCHITECT FOR RESOLUTION. H. GROUT JOINTS: JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE AND AS RECOMMENDED BY THE MFR. BASED ON THE TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED

OTHERWISE. 2. TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE, UNLESS INDICATED OTHERWISE. 3. INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING CARE TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION. 4. SEALER: AFTER FULLY CURED, GROUT SHALL BE SEALED WITH TWO (2) COATS OF COMMERCIAL

QUALITY PENETRATING SILICONE SEALER.

## DIVISION 10 - SPECIALTIES

- 1 TOILET COMPARTMENTS A. SUBMITTALS: SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, CONNECTION DETAILS, AND DETAILS OF WALL SUPPORTS, PRODUCT DATA, AND COLOR CHARTS B. PANEL, PILASTER, AND DOOR MATERIALS (TYPE AS INDICATED ON DRAWINGS)
  - ENAMELED STEEL: a. STEEL SHEETS FOR COLOR COATED FINISH: MILL-PHOSPHATIZED, CORROSION RESISTANT STEEL SHEET: ASTM A 591/A 591M, CLASS C, OR ASTM A 653/A 653M. b. CORE MATERIAL: SOUND DEADENING HONEYCOMB OF RESIN-IMPREGNATED KRAFT PAPER IN THICKNESS REQUIRED TO PROVIDE FINISHED THICKNESS OF 1" MINIMUM FOR DOORS, PANELS AND SCREENS, 1<sup>7</sup>/<sub>4</sub>" MINIMUM FOR PILASTERS,
- . PILASTER SHOES AND SLEEVES (CAPS): STAINLESS STEEL, NOT LESS THAN 3" HIGH) . BRACKETS: STIRRUP, CHROME-PLATED, NONFERROUS, CAST ZINC ALLOY (ZAMAC), STAINLESS STEEL OR CLEAR ANODIZED ALUMINUM. E. FABRICATION: MOUNTING AND BRACING TYPE AS INDICATED ON CONSTRUCTION DOCUMENTS
- DOORS: 24" WIDE IN-SWINGING DOORS FOR STANDARD COMPARTMENTS; 36" WIDE OUT-SWINGING DOORS WITH MINIMUM 32" WIDE CLEAR OPENING FOR HANDICAP ACCESSIBLE COMPARTMENTS, UNLESS NOTED OTHERWISE. 3. DOOR HARDWARE: CAST ZINC ALLOY (ZAMAC), STAINLESS STEEL, OR CLEAR ANODIZED
- ALUMINUM COMPLYING WITH AMERICANS WITH DISABILITIES ACT FOR HANDICAP ACCESSIBLE COMPARTMENTS. a. HINGES: SELF-CLOSING, ADJUSTABLE TO HOLD DOOR OPEN AT ANY ANGLE UP TO 90 DEGREES
- b. LATCHES AND KEEPERS: RECESSED UNIT DESIGNED FOR EMERGENCY ACCESS AND WITH COMBINATION RUBBER-FACED DOOR STRIKE AND KEEPER c. COAT HOOK: COMBINATION HOOK AND RUBBER-TIPPED BUMPER, SIZED TO PREVENT
- DOOR FROM HITTING COMPARTMENT-MOUNTED ACCESSORIES. d. DOOR BUMPER: RUBBER-TIPPED BUMPERS AT OUT-SWINGING DOORS
- e. DOOR PULL: PROVIDE AT OUT-SWINGING DOORS. F. INSTALLATION: INSTALL UNITS RIGID. STRAIGHT. LEVEL. AND PLUMB WITH NOT MORE THAN %" BETWEEN. PILASTERS AND PANELS AND NOT MORE THAN 1" BETWEEN PANELS AND WALLS. PROVIDE BRACKETS, PILASTER SHOES, BRACING, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. USE THEFT-RESISTANT EXPOSED FASTENERS FINISHED TO MATCH HARDWARE. USE SLEEVE NUTS FOR THROUGH-BOLT APPLICATIONS.
- 1. ALIGN BRACKETS FOR PILASTERS WITH BRACKETS AT WALLS. 2. SET HINGES ON IN-SWINGING DOORS TO HOLD OPEN APPROXIMATELY 30 DEGREES FROM CLOSED POSITION WHEN UNLATCHED. SET HINGES ON OUT-SWINGING DOORS TO RETURN TO FULLY CLOSED POSITION.

## A. REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, SIZE, AND LOCATIONS FOR SIGNAGE. B. MATERIALS: BLACK LAMINATE FACES WITH BLACK EDGES AND RAISED WHITE GRAPHICS AND TEXT

# 0.3 FIRE EXTINGUISHERS AND CABINETS:

A. REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, SIZE AND LOCATIONS OF FIRE EXTINGUISHERS AND CABINETS.

0.4 TOILET AND BATH ACCESSORIES A. REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET AND BATH ACCESSORIES

## VISION 11 - EQUIPMENT 1 APPLIANCES

A. REFERENCE CONSTRUCTION DRAWINGS FOR QUANTITY, AND LOCATION OF APPLIANCES TO BE FURNISHED BY TENANT.

## DIVISION 12 - FURNISHINGS

## 1 FABRIC ROLLER SHADES

A. SUBMITTALS: PRODUCT DATA AND MATERIAL SAMPLES FOR SHADE FABRIC OPTIONS AND FASCIA OPTIONS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE PATTERNS AND COLORS. B. WARRANTIES:

- 1. ROLLER SHADE HARDWARE, CHAIN, AND SHADECLOTH: 10 YEARS ACCEPTABLE MANUFACTURERS: MECHOSHADE SYSTEMS, INC., HUNTER-DOUGLAS CONTRACT
- D. <u>PRODUCTS</u>: 1. CONFIGURATION: ONE-PIECE UNITS EXTENDING FROM WINDOW HEAD TO SILL, UNLESS NOTED OTHERWISE, BETWEEN-JAMB MOUNTED. 2. TYPE:
- a. MANUALLY OPERATED, CHAIN DRIVEN, SUNSCREEN ROLLER SHADES. 3. SHADE CLOTH: VISUALLY TRANSPARENT SINGLE THICKNESS, NON-RAVELING, ANTI-STATIC, FADE AND STAIN RESISTANT FABRIC CONTAINING PVC, POLYESTER, OR VINYL RANGING FROM 6.00 OZ/SQ. YD - 20.70 OZ. SQ. YD. IN PATTERNS AND COLORS TO BE SELECTED FOM MANUFACTURER'S FULL AVAILABLE RANGE.
- a. OPENNESS FACTOR: 3% b. FIRE-TEST RESPONSE CHARACTERISTICS: COMPLY WITH NFPA 701-99
- 4. ACCESSORIES: a. FASCIA: FURNISH CONTINUOUS REMOVABLE EXTRUDED ALUMINUM FASCIA TO FULLY CONCEAL BRACKETS, SHADE ROLLER, AND FABRIC ON THE TUBE THAT ATTACHES TO SHADE MOUNTING BRACKETS WITHOUT THE USE OF ADHESIVES, MAGNETIC STRIPS OR EXPOSED FASTENERS. PROVIDE END CAPS WHERE WHERE MOUNTING CONDITIONS EXPOSE OUTSIDE OF ROLLER SHADE BRACKETS. E. INSTALLATION: FURNISH AND INSTALL SHADES ON ALL EXTERIOR GLASS EXCEPT LOBBY AND
- VESTIBULE GLASS, UNLESS NOTED OTHERWISE. 1. INSTALL SHADES AFTER FINISH WORK IS COMPLETE AND AMBIENT TEMPERATURE AND HUMIDITY ARE AT LEVELS INTENDED FOR OCCUPANCY, EXCEPT AT TWO LOCATIONS WHERE BLINDS WILL
- BE CONCEALED WITHIN FURRING. 2. ADJUST AND BALANCE SHADES TO OPERATE SMOOTHLY, EASILY, SAFELY, AND FREE FROM BINDING THROUGH ENTIRE OPERATIONAL RANGE. FABRIC SHALL HANG STRAIGHT WITHOUT CURLING OR RAVELING AND SHALL NOT SHIFT MORE THAN  $\frac{1}{8}$ " IN EITHER DIRECTION PER 8' OF
- SHADE HEIGHT DUE TO WARP DISTORTION OR WEAVE DESIGN. CLEAN SURFACES JUST PRIOR TO OCCUPANCY.

## DIVISION 13 - SPECIAL CONSTRUCTION

1 FIRE ALARM A. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF FIRE ALARM SYSTEMS. B. HORN/STROBE DEVICES: HORN/STROBE DEVICES SHALL BE "WHITE" AND SHALL BE CEILING MOUNTED TO MAXIMUM EXTENT FEASIBLE; WALL-MOUNTED WHERE NECESSARY.

3.2 FIRE SUPPRESSION SYSTEMS A. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF FIRE SUPPRESSION SYSTEMS B. SUBMITTALS: SHOP DRAWINGS INDICATING LAYOUT AND PROPOSED HEIGHTS OF PIPING AND HEADS, AND PRODUCT DATA FOR VALVES, HEADS, AND ALARMS, INCLUDING CALCULATIONS. SUBMIT REQUIRED NUMBER OF SETS TO AUTHORITIES HAVING JURISDICTION FOR REVIEW, COMMENT, AND APPROVAL. SPRINKLER HEADS AND ESCUTCHEONS: IN SUSPENDED ACOUSTICAL TILE CEILINGS, SPRINKLER HEADS SHALL BE PENDANT SEMI-RECESSED CHROME PLATED WITH CHROME PLATED ESCUTCHEONS. IN GYPSUM BOARD CEILINGS SPRINKLER HEADS SHALL BE CONCEALED WITH WHITE ENAMEL COVERS. D. LAYOUT: SPRINKLER HEADS SHALL BE LAID OUT TO FALL IN "CENTER-OF-TILE" WHEN INSTALLED IN

SUSPENDED ACOUSTICAL TILE CEILINGS AND SHALL BE LAID OUT SYMMETRICALLY IN GYPSUM BOARD

DIVISION 15 - MECHANICAL

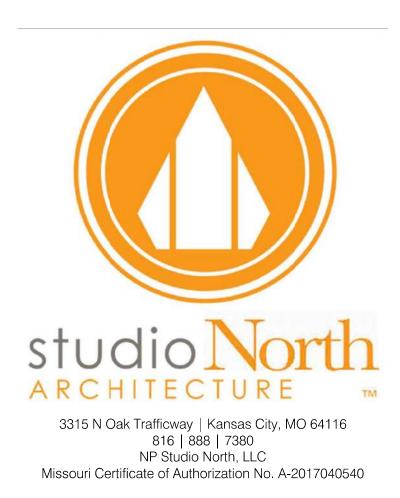
CEILINGS

1 GENERAL A. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF MECHANICAL AND PLUMBING SYSTEMS. B. IF ANY INTERSTITIAL SPACES WILL BE UTILIZED FOR RETURN AIR AND RIGID WALL INSULATION IS DETAILED TO BE INSTALLED ON EXTERIOR WALLS ABOVE CEILINGS, ALL RETURN AIR MUST BE DUCTED. "PLENUM RETURN IS PROHIBITED"

## DIVISION 16 - ELECTRICAL

.1 GENERAL A. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF ELECTRICAL SYSTEMS. 5.2 WIRING DEVICES AND COVER PLATES

A. DEVICE COLOR: WHITE THROUGHOUT, UNLESS NOTED OTHERWISE B. DEVICE COVER PLATES: WHITE THROUGHOUT, UNLESS NOTED OTHERWISE.



PLUMBING DESIGN-BUILD BY GEN CONTRACTOR MECHANICAL DESIGN-BUILD BY GEN CONTRACTOR ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION



1220 NW Main St Lee's Summit. MO 64086

Project No. 2024-032 Date: Drawn By: F. Crubaugh Reviewed By: F. Crubaugh Revisions: No. Date Description

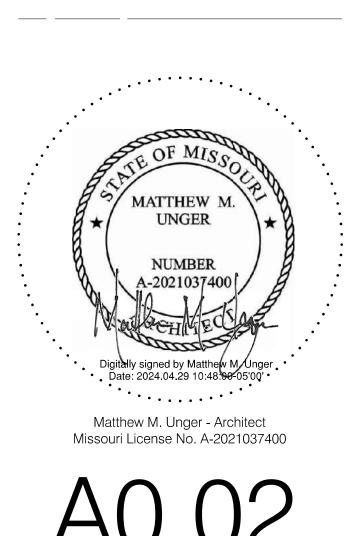
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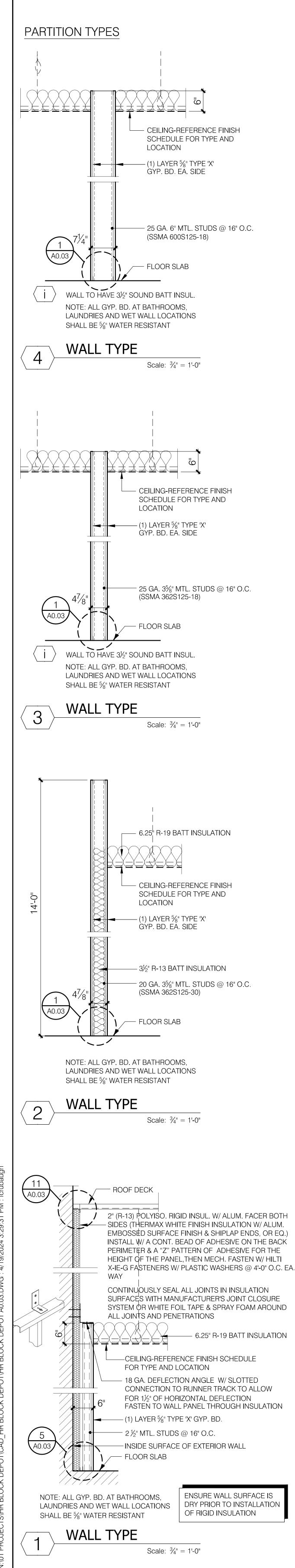
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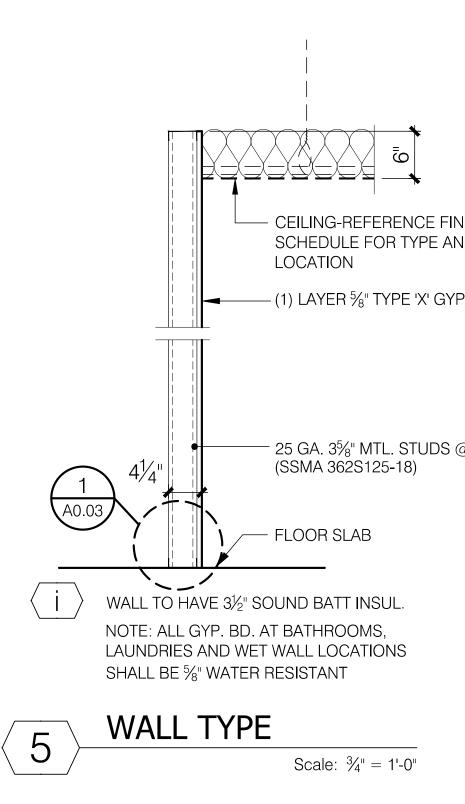
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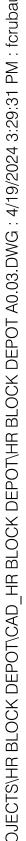
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**SPECIFICATIONS** 









	TUD IZE	GA.	Fy (ksi)	SSMA SECTION	COMPOSITE MAX. HEIGHT (GYP. BD. ON BOTH SIDES)	NON COMPOSITE MAX. HEIGHT (FULLY BRACED
	1	25	33	162S125-18	10'-1"	6'-11"
		22	33	162S125-27	10'-7"	8'-2"
		20	33	162S125-30	10'-9"	8'-5"
		22S	33	162S125-33	-	8'-8"
2	21⁄2"	25	33	250S125-18	12'-10"	9'-7"
		22	33	250S125-27	13'-11"	11'-3"
		20	33	250S125-30	14'-5"	11'-7"
		22S	33	250S125-33	14'-3"	12'-0"
		18	33	250S125-43	-	13'-0"
	3 5⁄8"	25	33	362S125-18	15'-2"	12'-2"
		22	33	362S125-27	16'-6"	15'-0"
		20	33	362S125-30	16'-7"	15'-6"
		22S	33	362S125-33	17'-5"	16'-0"
		18	33	362S125-43	-	17'-5"
		16	50	362S125-54	_	18'-7"
		14	50	362S125-68	_	19'-11"
	4"	25	33	400S125-18	15'-11"	12'-10"e
		22	33	400S125 <b>-</b> 27	17'-8"	16'-2"
		20	33	400S125-30	17'-8"	16'-8"
		22S	33	400S125-33	18'-3"	17'-3"
		18	33	400S125-43	-	18'-10"
		16	50	400S125-54	-	20'-2"
		14	50	400S125-68	_	21'-6"
	6"	25	33	600S125-18	20'-1"	-
		22	33	600S125-27	24'-4"	21'-6"e
		20	33	600S125-30	24'-7"	22'-11"
		22S	33	600S125-33	25'-6"	23'-9"
		18	33	600S125-43		26'-1"
		16	50	600S125-54		27'-11"
		14	50	600S125-68		30'-0"
$\vdash$	8"	18	33	800S125-43	_	32'-9"
	-	16	50	800S125-54		35'-2"
		14	50	800S125-68	-	38'-1"
		12	50	800S137-97		43'-11"

1. LIMITING HEIGHTS ARE BASED ON 16" STUD SPACING, 5 PSF LOAD, AND L/240 MAX. ALLOWABLE DEFLECTION AS CONTAINED IN THE STEEL STUD MANUFACURER'S ASSOCIATION (SSMA) SPAN TABLES.

MATERIAL DESIGN THICKNESS IS THE BASE METAL THICKNESS IN MILS.

3. Fy = YIELD STRENGTH OF STEEL

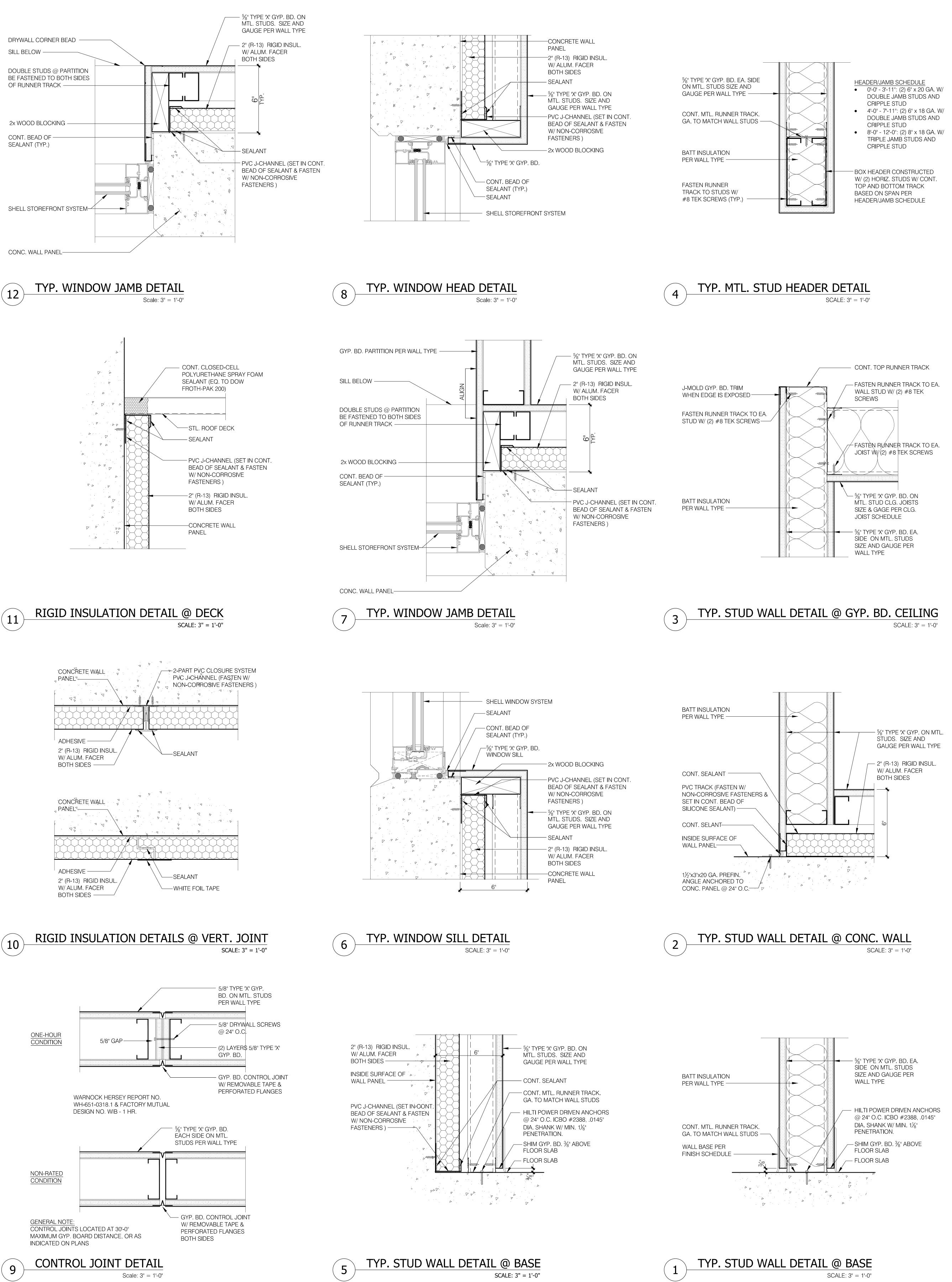
4. COMPOSITE LIMITING HEIGHTS ARE BASED ON A SINGLE LAYER OF  $\frac{5}{8}$ " TYPE 'X' GYP. BD. INSTALLED IN THE VERTICAL ORIENTATION TO BOTH SIDES OF THE WALL OVER FULL HEIGHT USING MIN. NO. 6 TYPE S DRYWALL SCREWS SPACED A MAXIMUM OF 16" O.C.

NON-COMPOSITE LIMITING HEIGHTS ARE BASED ON STEEL PROPERTIES ONLY WITHOUT THE CONTRIBUTION OF SHEATHING TO STRENGTH AND STIFFNESS OF THE ASSEMBLY. PROPERLY FASTENED SHEATHING IS REQUIRED FOR MEMBERS TO BE CONSIDER FULLY BRACED.

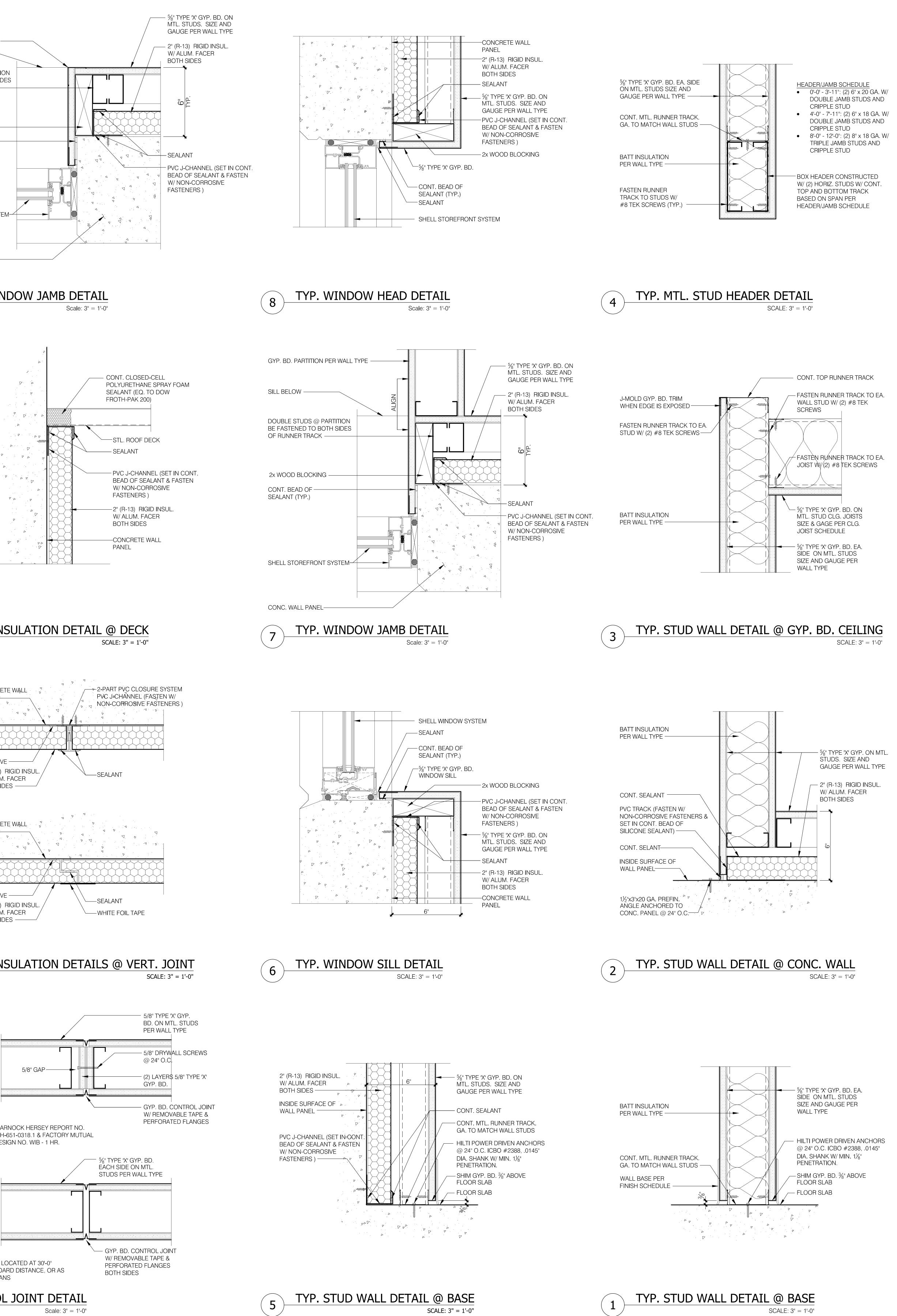
- 6. ALL RUNNER TRACK SHALL MATCH THE GAUGE/THICKNESS OF THE STUDS.
- 7. LIMITING HEIGHTS W/ AN "e" DESIGNATION REQUIRE WEB STIFFENERS AT ENDS.

## **GENERAL NOTES**

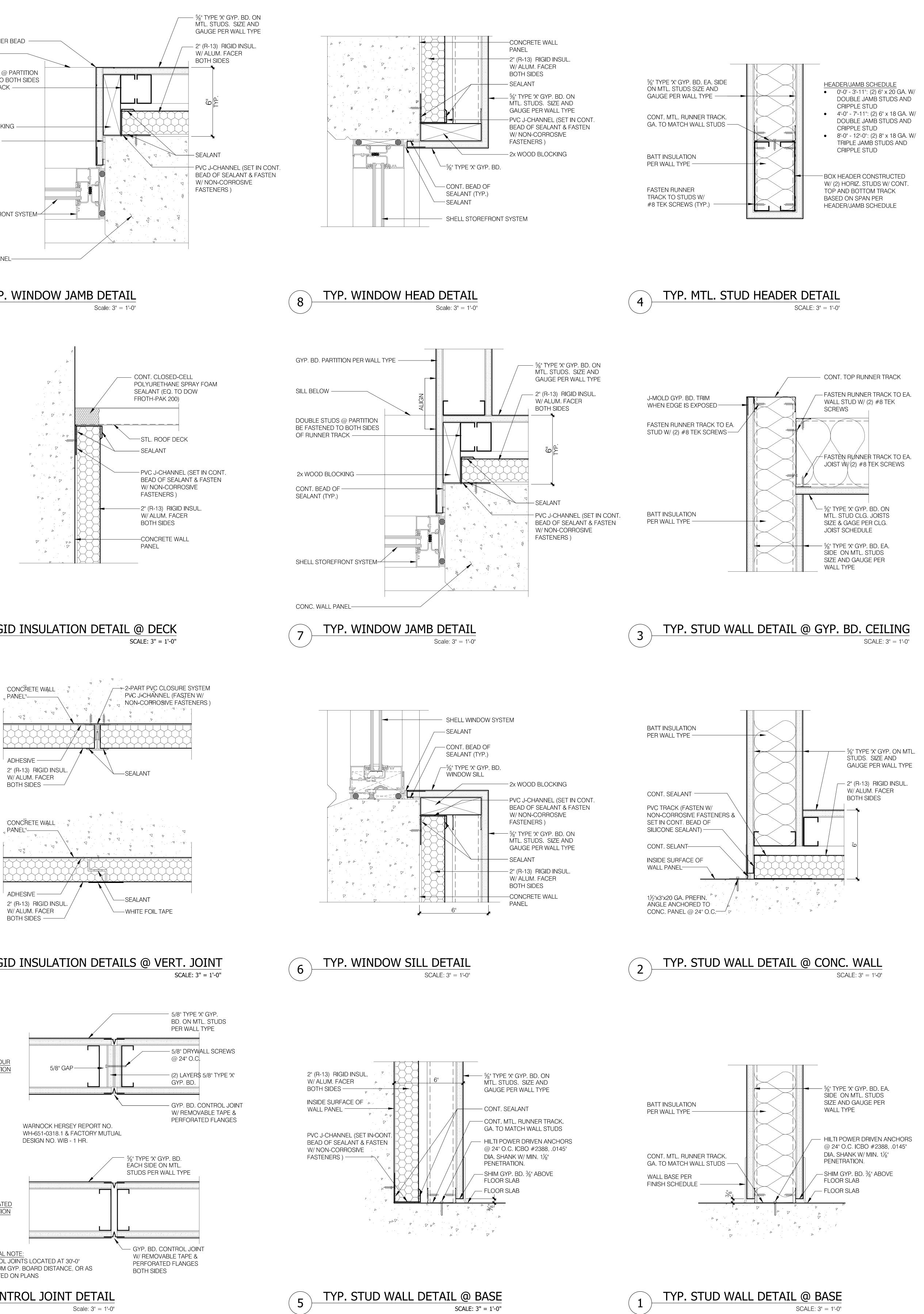
- 1. DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
- . ALL GYPSUM BD. SHALL BE  $\frac{5}{8}$ " TYPE 'X'. 3. ALL GYPSUM BD. AT BATHROOMS. LAUNDRIES, AND WET
- WALL LOCATIONS SHALL BE  $\frac{5}{3}$ " TYPE 'X' MOISTURE RESISTANT. 4. SHEATHING EQUAL TO "DENS-SHIELD" SHALL BE PROVIDED
- BEHIND ALL TILED SHOWER AND TUB AREAS. 5. GYPSUM BD. CONTROL JOINTS SHALL BE INSTALLED WHERE INDICATED OR AT 30'-0" O.C. MAX. SPACING IF NOT
- INDICATED. 6. BOTTOM RUNNER TRACK SHALL BE FASTENED TO SLAB W/ HILTI POWER DRIVEN ANCHORS ICBO #2388, .0145" DIA.
- SHANK W/ MIN.  $1\frac{1}{8}$ " PENETRATION @ 24" O.C.. 4. PARTITIONS NOT EXTENDING TO UNDERSIDE OF STRUCTURE
- SHALL BE BRACED PER MFR. RECOMMENDATIONS. 5. CONCEALED FIRE RETARDANT TREATED WOOD BLOCKING SHALL BE INSTALLED BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, HANDRAILS, AND OTHER WALL MOUNTED ACCESSORIES AS REQUIRED FOR ADEQUATE SUPPORT.



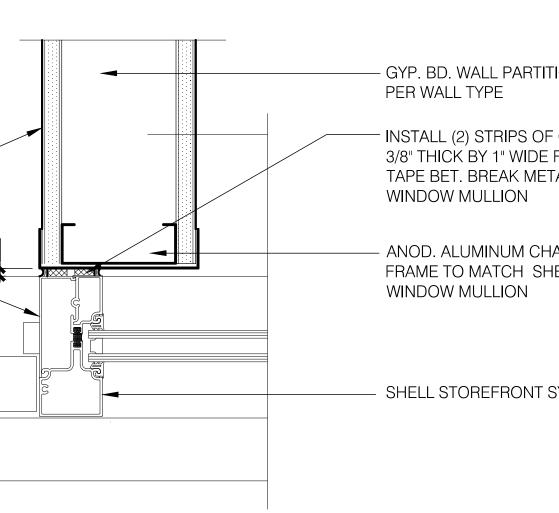












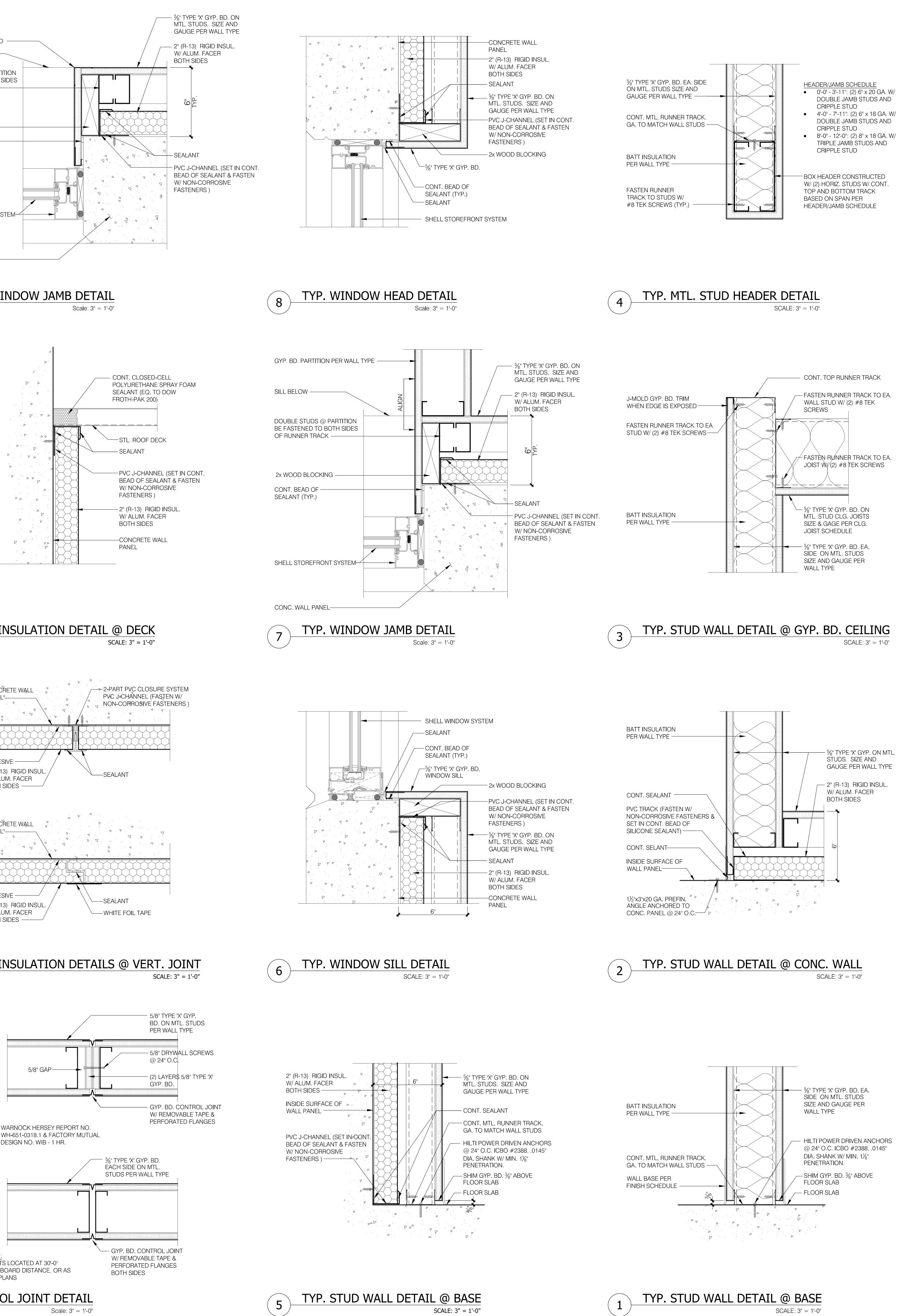
– GYP. BD. WALL PARTITION

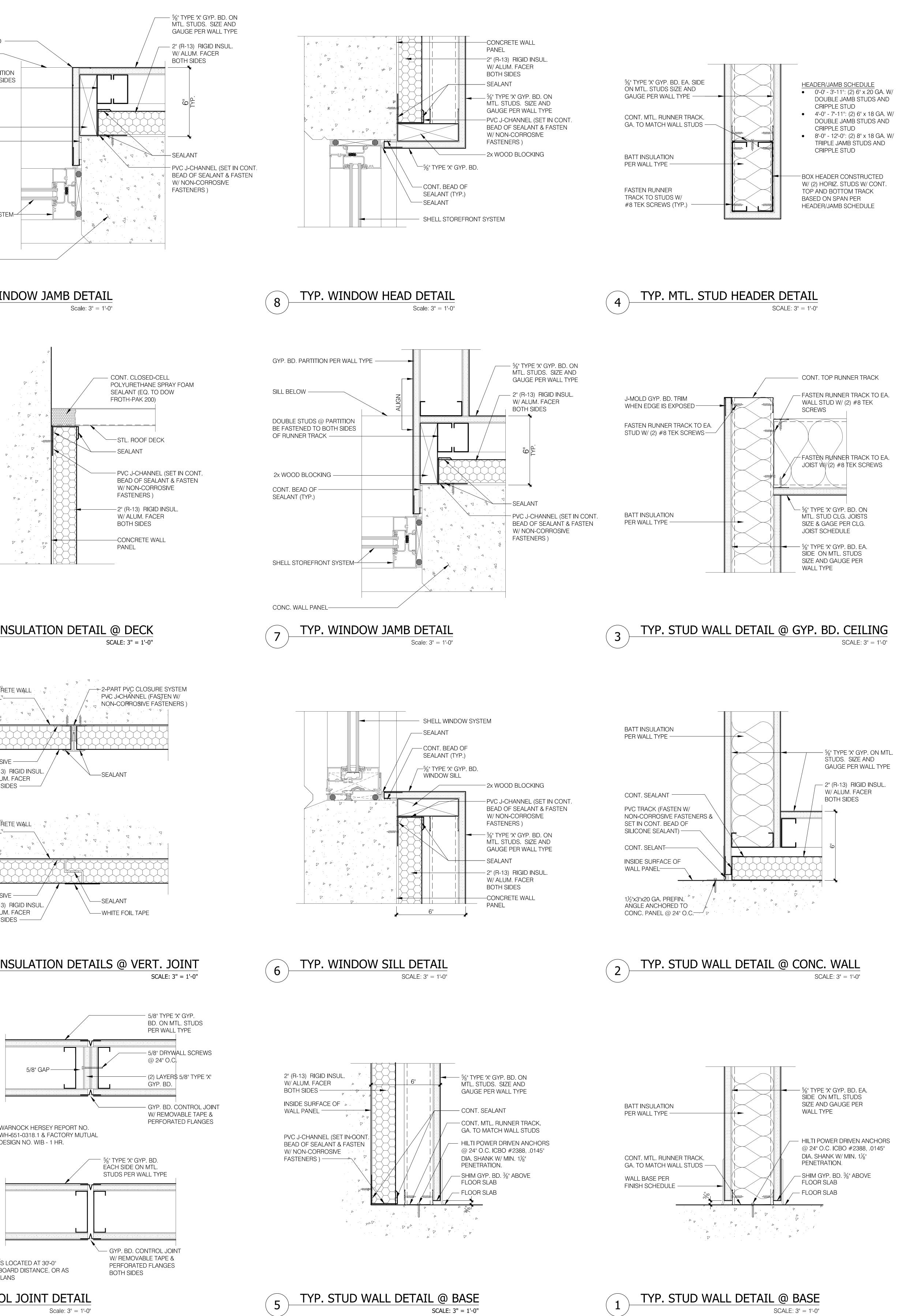
- INSTALL (2) STRIPS OF CONT. 3/8" THICK BY 1" WIDE FOAM TAPE BET. BREAK METAL AND

- ANOD. ALUMINUM CHANNEL FRAME TO MATCH SHELL

SHELL STOREFRONT SYSTEM



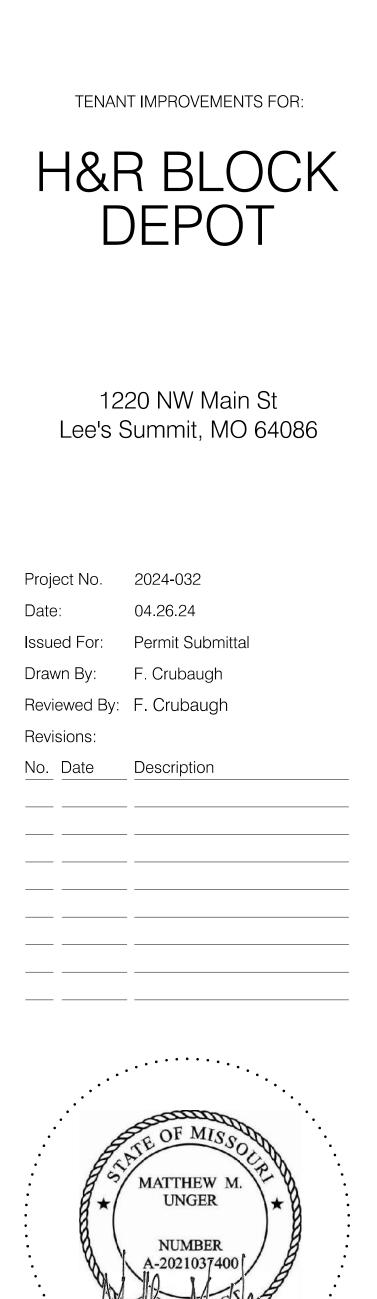




13 TYP. WALL/MULLION CONNECTION Scale: 3" = 1'-0"



MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION



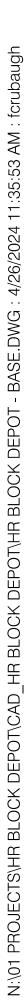
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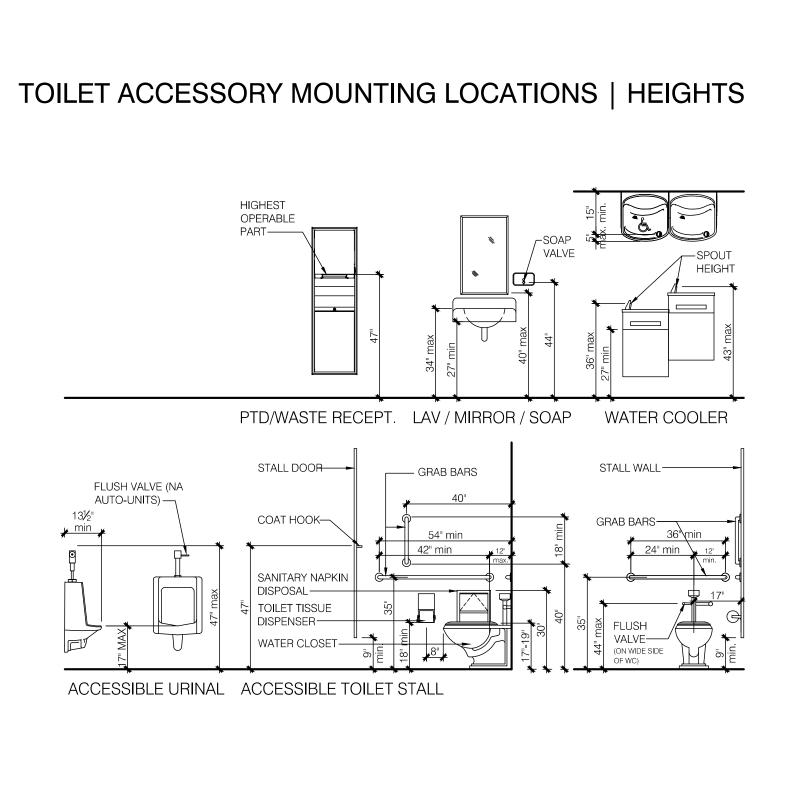
Matthew M. Unger - Architect

Missouri License No. A-2021037400

A0.03

WALL TYPES | DETAILS





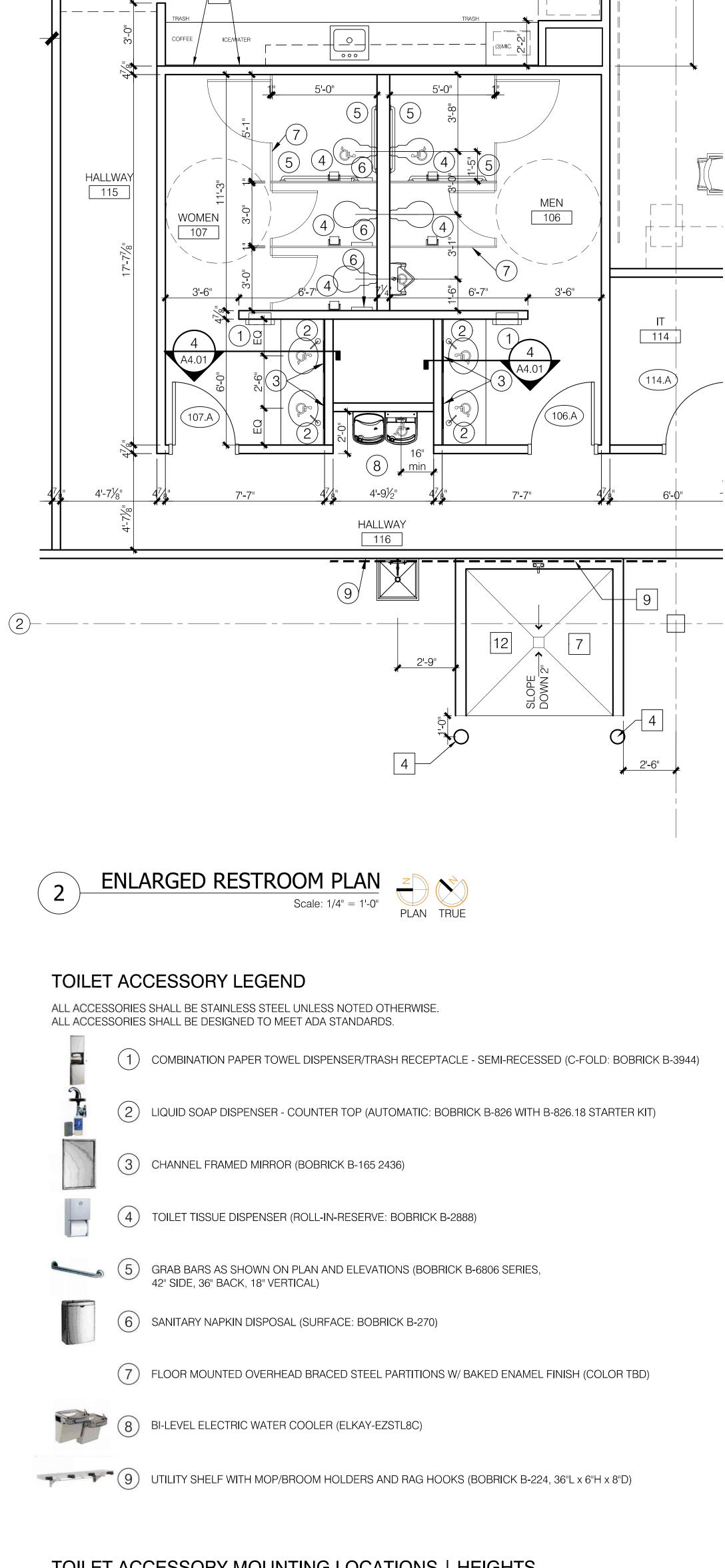
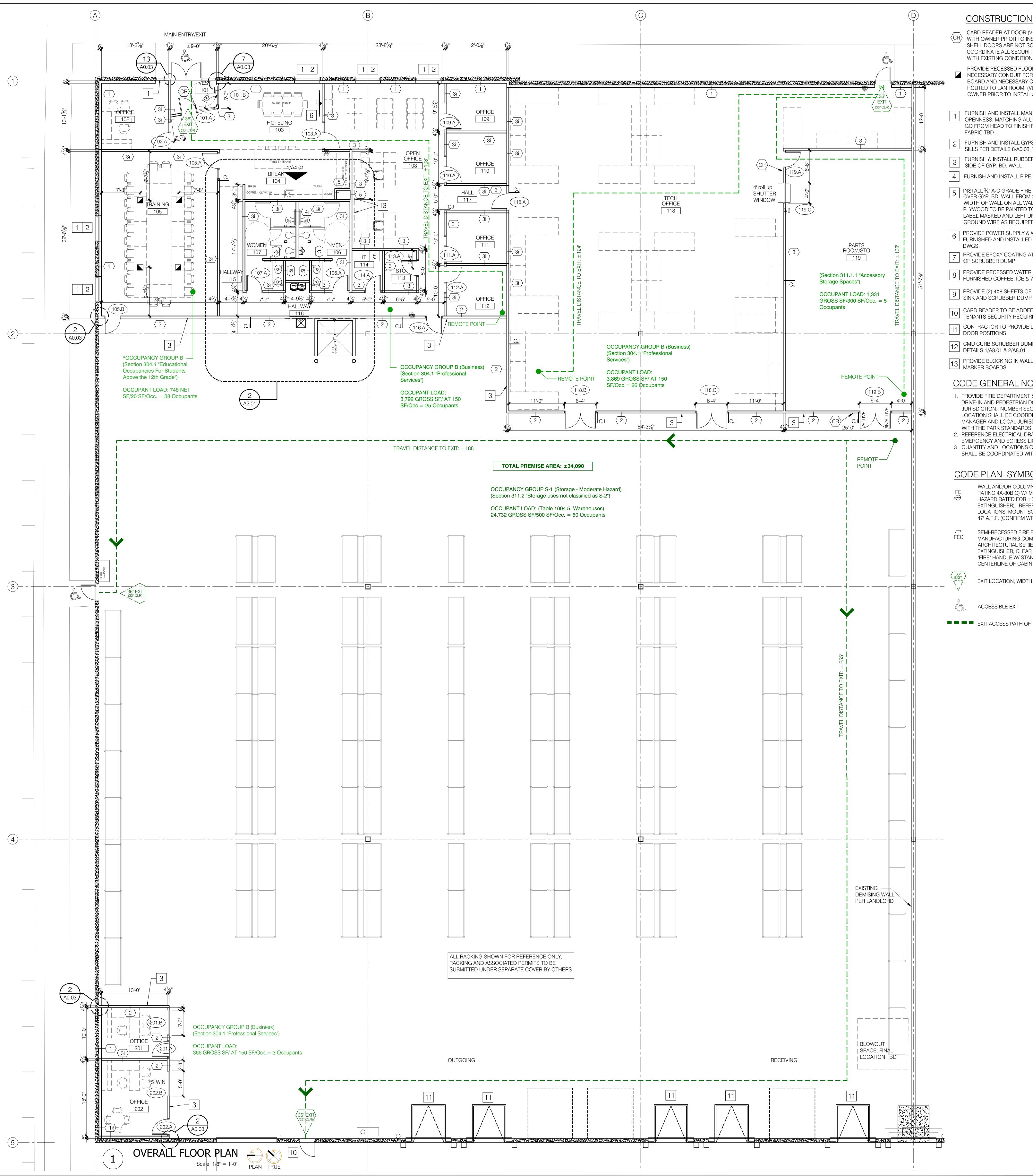


TABLE BY TENANT

1/A4.01



# CONSTRUCTION NOTES:

- $\neg$  CARD READER AT DOOR (VERIFY FINAL LOCATION  $\langle CR \rangle$  with owner prior to installation. Note: SHELL DOORS ARE NOT SCHEDULED COORDINATE ALL SECURITY REQUIREMENTS WITH EXISTING CONDITIONS)
- PROVIDE RECESSED FLOOR BOX AS SHOWN ON PLAN W/ NECESSARY CONDUIT FOR POWER ROUTED TO PANEL BOARD AND NECESSARY CONDUIT(S) FOR DATA/VOICE ROUTED TO LAN ROOM. (VERIFY FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION)
- FURNISH AND INSTALL MANUAL FABRIC ROLLER SHADES, 3% ] OPENNESS, MATCHING ALUMINUM FASCIA COVERS, SHADE TO GO FROM HEAD TO FINISH FLOOR OR SILL WHERE EXISTS, FABRIC TBD .
- 2 FURNISH AND INSTALL GYPSUM BOARD WINDOW HEAD, JAMB & \_\_\_\_\_ SILLS PER DETAILS 8/A0.03, 7/A0.03, 6/A0.03
- FURNISH & INSTALL RUBBER BASE AND PAINT ON WAREHOUSE SIDE OF GYP. BD. WALL
- 4 FURNISH AND INSTALL PIPE BOLLARD PER DETAIL 3/A8.01
- INSTALL <sup>3</sup>/<sub>4</sub>" A-C GRADE FIRE RESISTIVE PLYWOOD BACK BOARD OVER GYP. BD. WALL FROM 36" A.F.F. TO 84" A.F.F. FOR THE FUL WIDTH OF WALL ON ALL WALLS. GRADE SHALL FACE OUT & PLYWOOD TO BE PAINTED TO MATCH ADJACENT WALL WITH FIRE LABEL MASKED AND LEFT UNPAINTED. INSTALL COPPER GROUND WIRE AS REQUIRED
- PROVIDE POWER SUPPLY & WOOD BACKING FOR OWNER **FURNISHED AND INSTALLED FLAT SCREEN T.V.(S) PER ELECT.**
- PROVIDE EPOXY COATING AT FLOOR AND CURBS OF SCRUBBER DUMP
- PROVIDE RECESSED WATER SUPPLY BOX BEHIND TENANT **B** FURNISHED COFFEE, ICE & WATER DISPENSERS
- PROVIDE (2) 4X8 SHEETS OF FRP-1 WITH TRIM BEHIND FLOOR SINK AND SCRUBBER DUMP
- CARD READER TO BE ADDED TO EXISTING DOOR PER
- TENANTS SECURITY REQUIREMENTS CONTRACTOR TO PROVIDE LIFTS ON ALL EXISTING DOCK
- CMU CURB SCRUBBER DUMP, REF PLAN AND SECTION

PROVIDE BLOCKING IN WALL FOR TENANT PROVIDED GLASS MARKER BOARDS

- CODE GENERAL NOTES
- 1. PROVIDE FIRE DEPARTMENT SIGNAGE AT ALL OVERHEAD, DRIVE-IN AND PEDESTRIAN DOORS AS REQUIRED BY THE LOCAL JURISDICTION. NUMBER SEQUENCING, SIZE, COLOR AND LOCATION SHALL BE COORDINATED WITH THE PROPERTY MANAGER AND LOCAL JURISDICTION TO ENSURE COMPLIANCE
- 2. REFERENCE ELECTRICAL DRAWINGS FOR EXIT SIGNAGE, EMERGENCY AND EGRESS LIGHTING 3. QUANTITY AND LOCATIONS OF FIRE EXTINGUISHERS SHOWN SHALL BE COORDINATED WITH THE LOCAL FIRE MARSHAL
- CODE PLAN SYMBOLS LEGEND
- WALL AND/OR COLUMN MOUNTED FIRE EXTINGUISHER (UL RATING 4A-80B:C) W/ MOUNTING BRACKET, ORDINARY HAZARD RATED FOR 1,500 SF PER UNIT OF A (6,000 SF PER EXTINGUISHER). REFERENCE FLOOR PLAN(S) FOR LOCATIONS. MOUNT SO CENTERLINE OF EXTINGUISHER IS 47" A.F.F. (CONFIRM WITH FIRE MARSHAL)
- SEMI-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, ARCHITECTURAL SERIES AL2409-6R, W/MP10 FIRE EXTINGUISHER, CLEAR ALUMINUM SOLID DOOR, AND "FIRE" HANDLE W/ STANDARD FINSH. MOUNT SO CENTERLINE OF CABINET HANDLE IS 47" A.F.F.
- EXIT LOCATION, WIDTH, AND CLEAR WIDTH.
- ACCESSIBLE EXIT
- EXIT ACCESS PATH OF TRAVEL

- ARCHITEC 3315 N Oak Trafficway | Kansas City, MO 64116 816 | 888 | 7380 NP Studio North, LLC Missouri Certificate of Authorization No. A-2017040540
- PLUMBING DESIGN-BUILD BY GEN CONTRACTOR DESIGN-BUILD MECHANICAL BY GEN CONTRACTOR ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION



1220 NW Main St
Lee's Summit, MO 64086

Project No.
Date:
Issued For:
Drawn By:
Reviewed By:
Revisions:
No. Date

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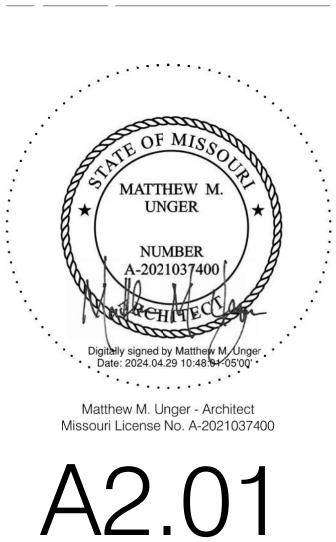
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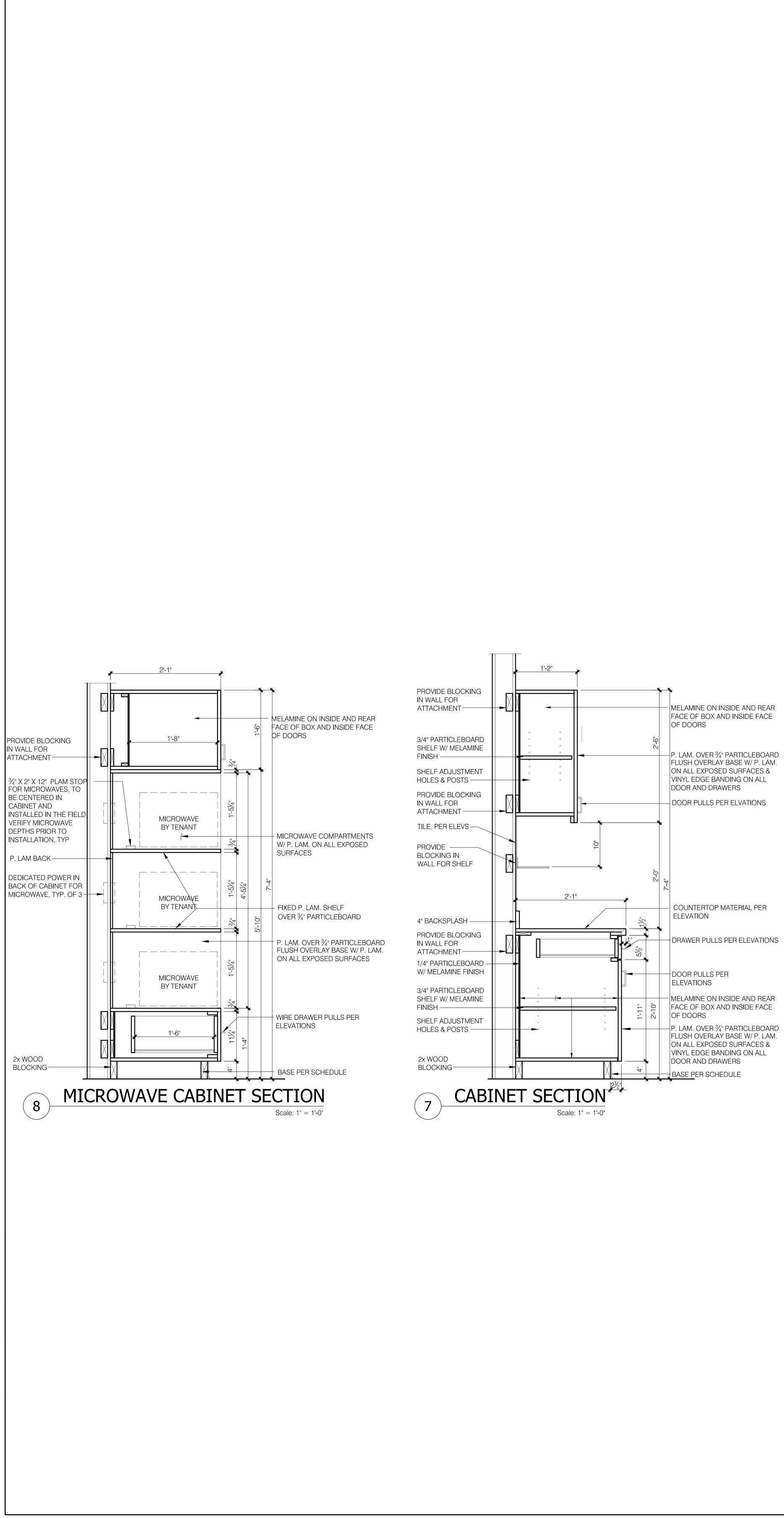
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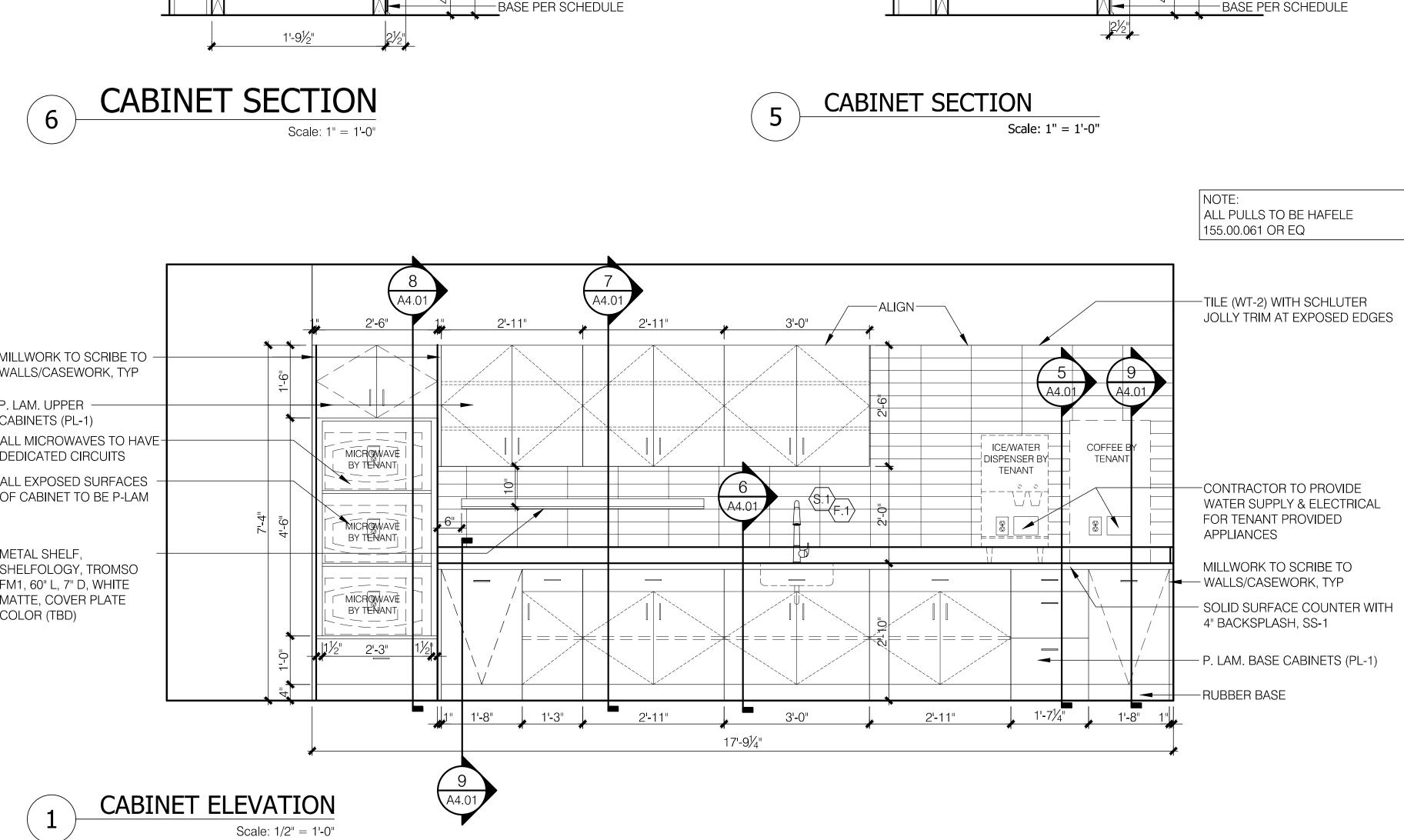
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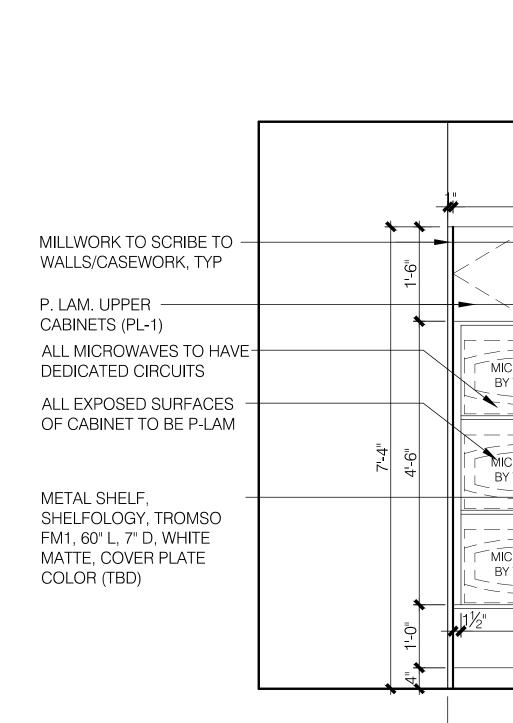
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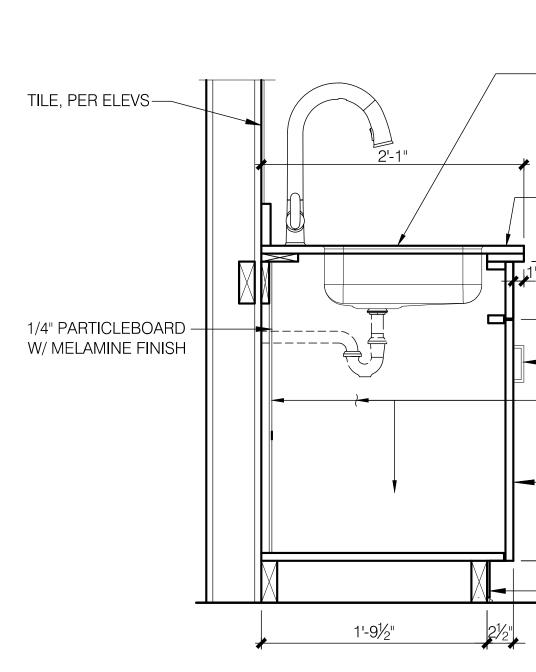


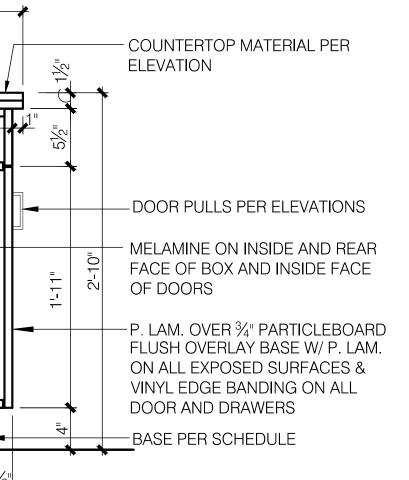








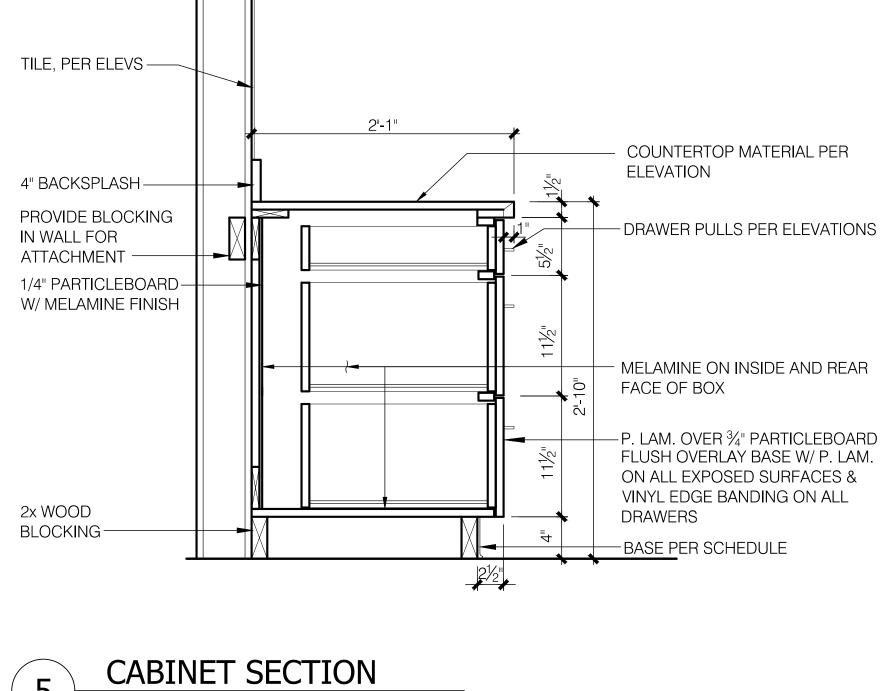


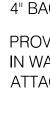


- UNDERMOUNT SINK @ SOLID

(6  $\frac{1}{2}$ " MAX. DEPTH & REAR DRAIN)

SURFACE COUNTERTOPS





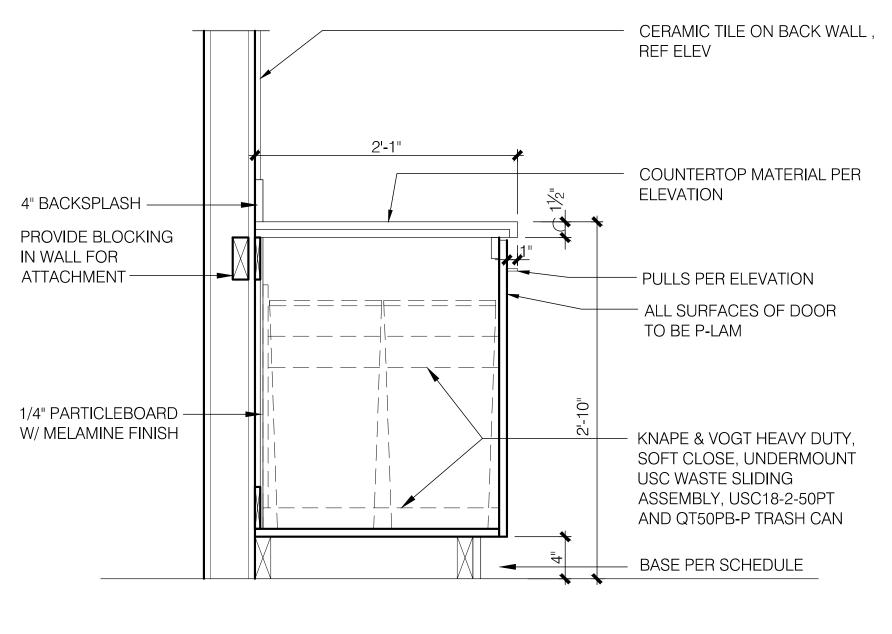




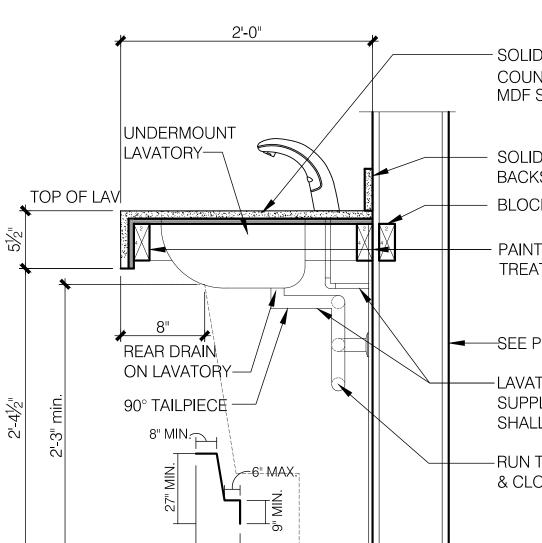
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MECHANICALDESIGN-BUILD BY GEN CONTRACTORELECTRICALDESIGN-BUILD BY GEN CONTRACTORFIRE PROTECTIONDESIGN-BUILD BY GEN CONTRACTORCONTRACTORFORGE CONSTRUCTION	PLUMBING		DESIGN-BUILD CONTRACTOR
BY GEN CONTRACTORFIRE PROTECTIONDESIGN-BUILDBY GEN CONTRACTOR	MECHANICAL		
BY GEN CONTRACTOR	ELECTRICAL		
CONTRACTOR FORGE CONSTRUCTION	FIRE PROTECTION		
	CONTRACTOR	FORGE C	ONSTRUCTION



## COFFEE BAR - SECTION Scale: 1" = 1'-0"



## - SOLID SURFACE COUNTERTOP OVER 1/2" MDF SUBSTRATE, SS-1

- SOLID SURFACE BACKSPLASH — BLOCKING

— PAINTED 2x4 PRESSURE TREATED WD. FRAME

SEE PLAN FOR WALL TYPE -LAVATORY HOT WATER SUPPLY AND DRAIN PIPES SHALL BE INSULATED & CLOSE TO WALL

## VANITY DETAIL Scale: 1" = 1'-0"

17" MIN.

## GENERAL NOTES:

- 1. REFERENCE DRAWING A8.03 FOR FINISH LEGEND AND ROOM
- FINISH SCHEDULE 2. REFERENCE DRAWING A2.01 FOR TOILET ACCESSORIES AND
- MOUNTING HEIGHTS 3. REFERENCE PLUMBING DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS

## TYPICAL CASEWORK NOTES

- 1. CABINET SHELVES SHALL BE HELD BACK  $\frac{1}{2}$ " FROM BACK FACE OF DOOR, TYP.
- 2. ALL SHELF POSTS SHALL BE SATIN CHROME 3. CABINETS CONSTRUCTION SHALL BE FLUSH OVERLAY W/ $\frac{1}{8}$ " REVEAL BETWEEN DOORS & DRAWERS,
- 4. CABINETS SHALL HAVE CONCEALED EUROPEAN-STYLE HINGES AT CABINET DOORS, HEAVY-DUTY DUOMATIC AS MANUFACTURED BY HAFELE, OR EQUAL, DRAWER GLIDES SHALL BE HEAVY DUTY, ACCURIDE OR EQUAL
- 5. INTERIOR OF CABINETS SHALL BE WHITE MELAMINE

## PLUMBING SCHEDULE

- UNDERMOUNT ADA SINKS \*\*\*ALL ADA COMPLIANT SINKS TO HAVE
- SINGLE BOWL UNDERMOUNT ADA COMPLIANT STAINLESS STEEL SINK, ELKAY ELUHAD211555; 23.5" x 18.25" x 5.375"

REAR DRAIN AND 6  $\frac{1}{2}$ " MAX. DEPTH

- FAUCET SCHEDULE
- $\langle F.1 \rangle$  KRAUS OLETTO PULL DOWN FAUCET IN SPOT FREE STAINLESS FINISH, KPF-2620 1.75 GPM FLOW RATE

# H&R BLOCK DEPOT 1220 NW Main St

TENANT IMPROVEMENTS FOR:

# Lee's Summit, MO 64086

Project No. 2024-032 Date: Issued For: Permit Submittal Drawn By: F. Crubaugh Reviewed By: F. Crubaugh Revisions: No. Date Description

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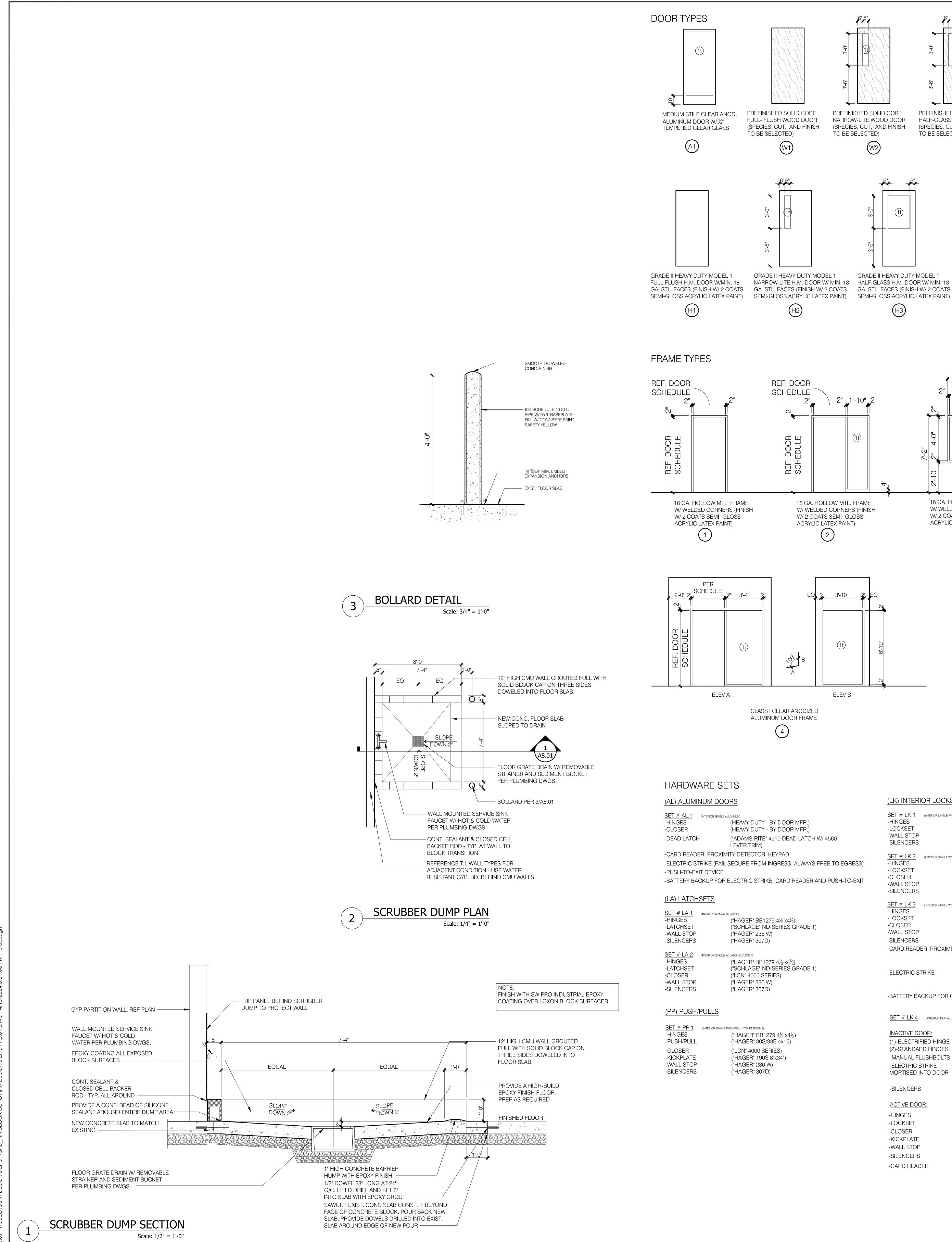
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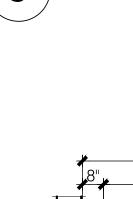


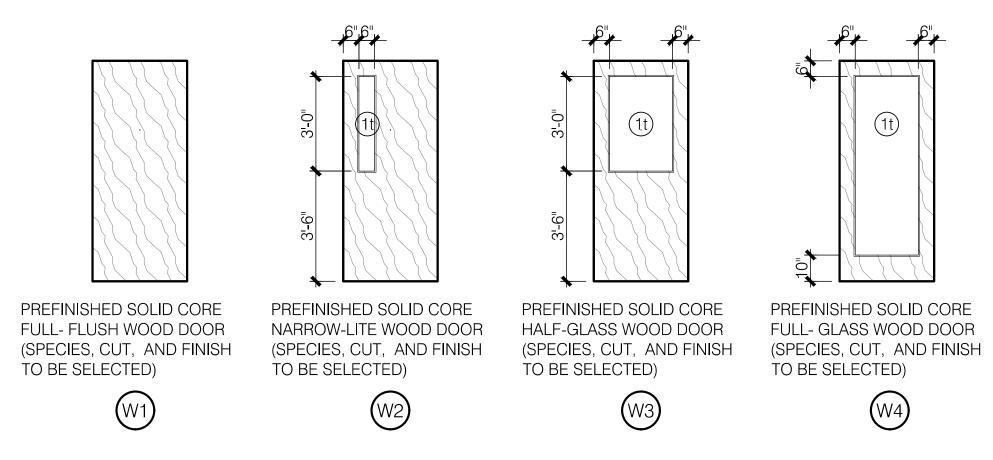


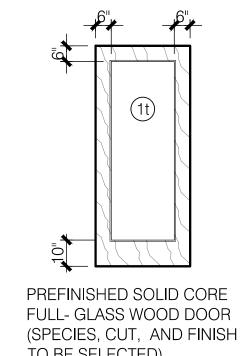
INTERIOR ELEVATIONS | DETAILS





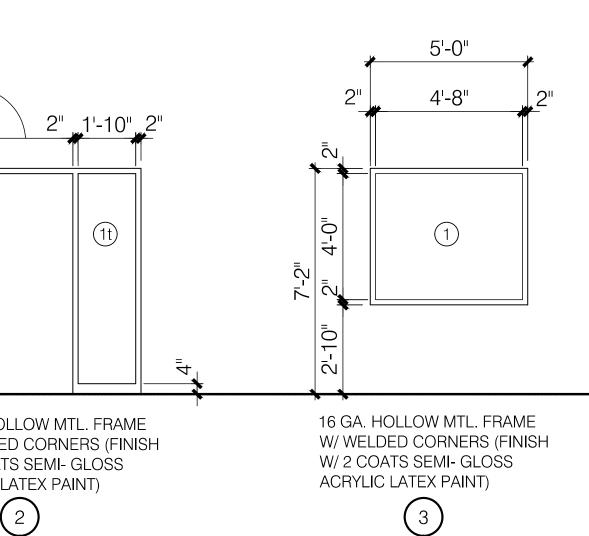






(W4)

# (H3)





(LK) INTERIOR LOCKSETS	

SET # LK.4 (INTERIOR PAIR W/ LOCK, CLOSERS & MANUAL FLUSH BOLTS)

INACTIVE DOOR: (1)-ELECTRIFIED HINGE (2)-STANDARD HINGES ("HAGER" BB1279  $4\frac{1}{2} \times 4\frac{1}{2}$ )

-SILENCERS

ACTIVE DOOR:
-HINGES
-LOCKSET
-CLOSER
-KICKPLATE
-WALL STOP

-SILENCERS -CARD READER

ROOM NAME		DOOR / WINDOW	FRA	ME		DETAILS		HARDWARE	RATING	REMARKS		
	NO.	SIZE (WxHx1 <sup>3</sup> ⁄ <sub>4</sub> " U.N.O.)	TYPE	MAT.	TYPE	MAT.	JAMB	HEAD	SILL			1
VEST 101.A 3'-0"x7'-0"				WD	4	AL	6/A8.02	7/A8.02	*	*	*	CR
VEST	101.B	WINDOW	-	-	4	AL	8/A8.02	7/A8.02 SIM	*	*	*	*
OFFICE	102.A	3'-0"x7'-0"	W1	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LK.1	*	*
HOTELING	103.A	3'-0"x7'-0"	W4	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LA.1	*	*
FRAINING	105.A	3'-0"×7'-0"	W1	WD	2	HM	1&3/A8.02	2&4/A8.02	*	LA.1	*	*
TRAINING	105.B	3'-0"x7'-0"	H2	НМ	1	НМ	1A8.02	2/A8.02	*	LA.1	*	2
MEN	106.A	3'-0"x7'-0"	W1	WD	1	НМ	1/A8.02	2/A8.02	*	PP.1	*	*
WOMEN	107.A	3'-0"x7'-0"	W1	WD	1	НМ	1/A8.02	2/A8.02	*	PP.1	*	*
OFFICE	109.A	3'-0"x7'-0"	W1	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LK.1	*	*
OFFICE	110.A	3'-0"x7'-0"	W1	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LK.1	*	*
DFFICE	111.A	3'-0"x7'-0"	W1	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LK.1	*	*
OFFICE	112.A	3'-0"x7'-0"	W1	WD	2	НМ	1&3/A8.02	2&4/A8.02	*	LK.1	*	*
STORAGE	113.A	3'-0"x7'-0"	W1	WD	1	HM	1/A8.02	2/A8.02	*	LK.1	*	*
Т	114.A	3'-0"×7'-0"	W1	WD	1	HM	1/A8.02	2/A8.02	*	LK.1	*	*
HALLWAY	116.A	3'-0"x7'-0"	НЗ	НМ	1	НМ	1A8.02	2/A8.02	*	LA.1	*	2
FECH OFFICE	118.A	3'-0"x7'-0"	W3	WD	1	НМ	1/A8.02	2/A8.02	*	LA.1	*	*
FECH OFFICE	118.B	PAIR 3'-0"x7'-0"	НЗ	НМ	1	НМ	1/A8.02	2/A8.02	*	PP.1	*	1
TECH OFFICE	118.C	PAIR 3'-0"x7'-0"	H3	НМ	1	НМ	1/A8.02	2/A8.02	*	PP.1	*	1
PARTS ROOM/STO	119.A	3'-0"x7'-0"	W1	WD	1	HM	1/A8.02	2/A8.02	*	LK.3	*	CR, 2
PARTS ROOM/STO	119.B	PAIR 3'-0"x7'-0"	H3	НМ	1	HM	1/A8.02	2/A8.02	*	LK.4	*	CR, 1
PARTS ROOM/STO	119.C	WINDOW SHUTTER	-	-	-	-	11&5/A8.02	9/A8.02	9/A8.02	-	*	
OFFICE	201.A	3'-0"×7'-0"	H1	НМ	1	HM	1/A8.02	2/A8.02	*	LK.1	*	2
OFFICE	201.A 201.B	WINDOW	_	-	3	HM	3/A8.02	4/A8.02	*	_	*	*
	201.B 202.A	3'-0"x7'-0"	H1	- HM	1	HM	1/A8.02	2/A8.02	*	 LK.1	*	*
	202.A 202.B	WINDOW	-	<u> </u>	3	HM	3/A8.02	4/A8.02	*		*	2
								4// 0.02				

CR = CARD READER

1. DOOR CLOSERS TO HAVE HOLD OPEN OPTION 2. DOOR TO HAVE KICK PLATE

## ABBREVIATIONS ALUMINUM CR CARD READER GLASS HM HOLLOW METAL MFR MANUFACTURER ML STL TID TRAFFIC IMPACT DOOR

WD WOOD

## MHO MAGNETIC HOLD OPEN MAGNETIC LOCK STEEL

# GLASS TYPE LEGEND

- (1) 1/4" CLEAR GLASS
- (1t) 1/4" CLEAR TEMPERED GLASS
- (2t) 1/2" CLEAR TEMPERED GLASS
- (3) INSULATED CLEAR GLASS
- (3t) INSULATED CLEAR TEMPERED GLASS
- (4) INSULATED TINTED GLASS (4t) INSULATED TINTED TEMPERED GLASS

- GENERAL NOTES
- 1. ALL DOORS SHALL BE  $1\frac{3}{4}$ " THICK UNLESS NOTED OTHERWISE. 2. ALL HARDWARE SHALL COMPLY WITH APPLICABLE
- REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)
- 3. ALL DOOR HARDWARE SHALL BE FINISH US26D OR EQUIVALENT.
- 4. ALL LATCHSETS AND LOCKSETS SHALL BE EQUIPPED WITH LEVER TYPE OPERATING TRIM.
- 5. ALL CLOSERS SHALL BE LOCATED ON ROOM SIDES OF DOORS. 6. CONTRACTOR'S HARDWARE CONSULTANT SHALL BE
- RESPONSIBLE FOR DETERMINING APPROPRIATE HARDWARE FUNCTION AND OPTIONS. 7. ALL DOORS SHALL BE EQUIPPED WITH
- INTERCHANGEABLE CORES WITH EVEREST 29 S123 KEYWAY. 8. CONTRACTOR SHALL COORDINATE FINAL KEYING WITH OWNER/LANDLORD. ALL LOCKS SHALL BE
- MASTERKEYED TO PARK DEVELOPMENT STANDARD. 9. FLOOR STOP(S) SHALL BE FURNISHED WHERE ADJACENT WALL DOES NOT ACCOMMODATE WALL STOP(S)

-MANUAL FLUSHBOLTS ("HAGER" 282D -12") -ELECTRIC STRIKE (FAIL SECURE FROM INGRESS SIDE ALWAYS FREE TO MORTISED INTO DOOR ÈGRESS, CONTRACTOR TO PROVIDE ELECTRIC STRIKE PER SECURITY VENDORS SPECIFICATION ) ("HAGER" 307D) ("HAGER" BB1279 4½ x4½) ("SCHLAGE" ND-SERIES GRADE 1)

("LCN" 4040XP SERIES, WITH HOLD OPEN FUNCTION) ("HAGER" 190S 8"x34") ("HAGER" 236 W) ("HAGER" 307D)

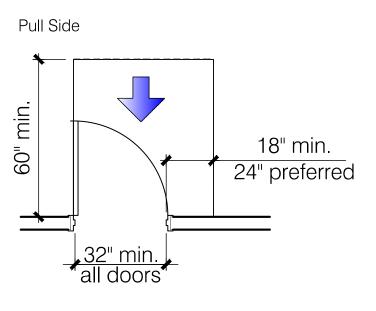
(BY OWNERS SECURITY VENDOR, CONTRACTOR TO PROVIDE CONDUIT AND PULL STRING TO FINAL LOCATION)



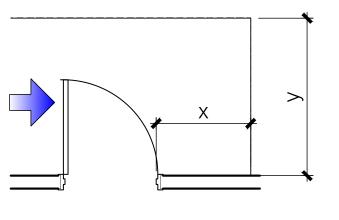
PLUMBING	DESIGN-BUILD BY GEN CONTRACTOR
MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION

MANEUVERING CLEARANCES AT DOORS

NOTE: All doors in alcoves shall comply with the clearances for front approaches

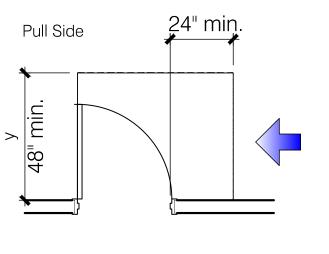


Front Approaches - Swinging Doors Pull Side



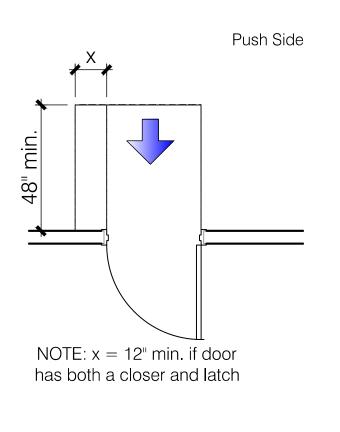
NOTE:  $x = 36^{\circ}$  min. if  $y = 60^{\circ}$ x = 42" min. if y = 54"

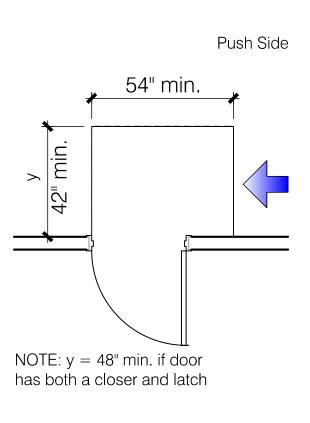
Hinge Side Approaches - Swinging Doors

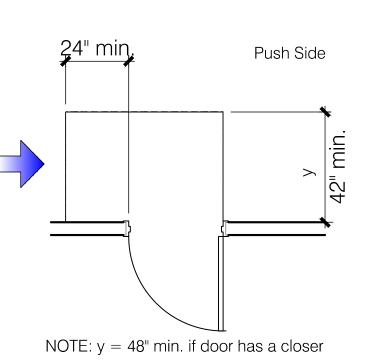


NOTE:  $y = 54^{"}$  min. if door has a closer

Latch Side Approaches - Swinging Doors

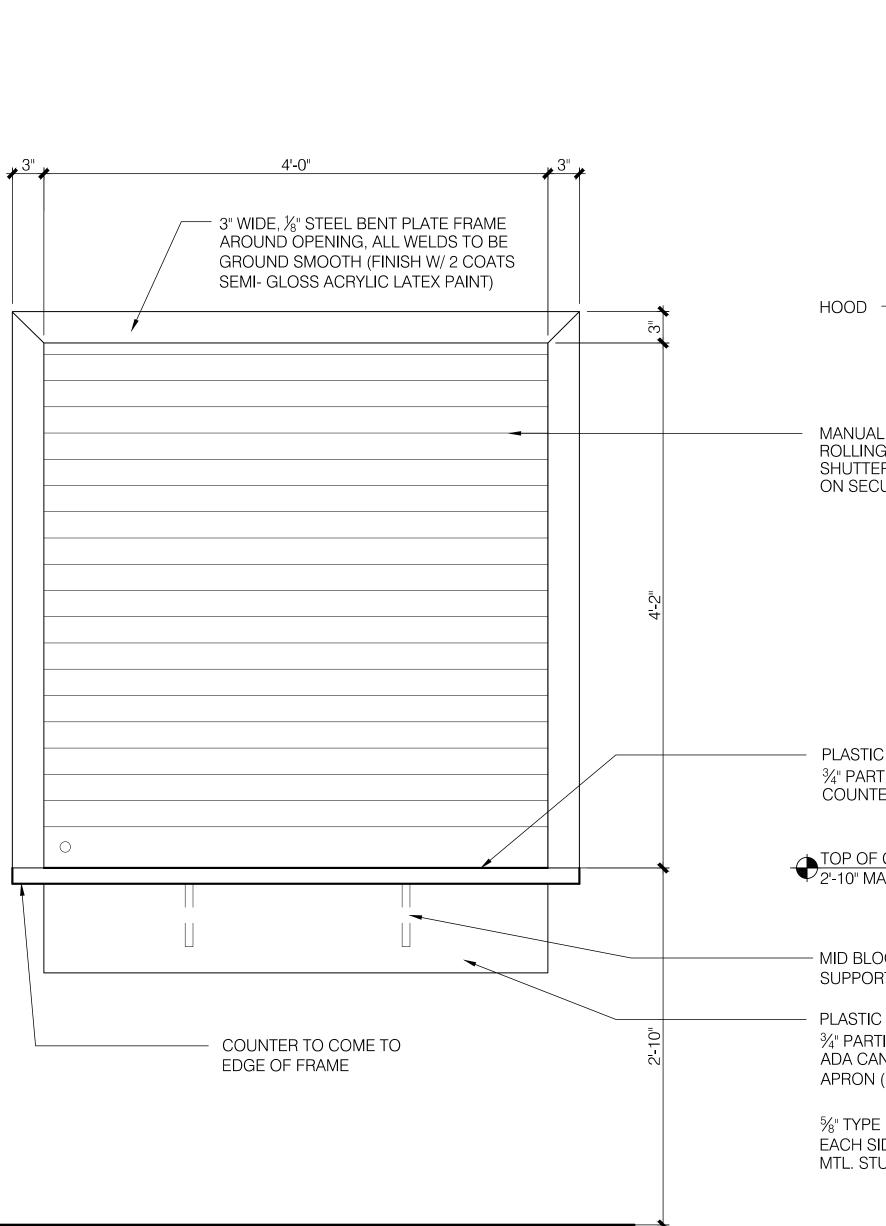


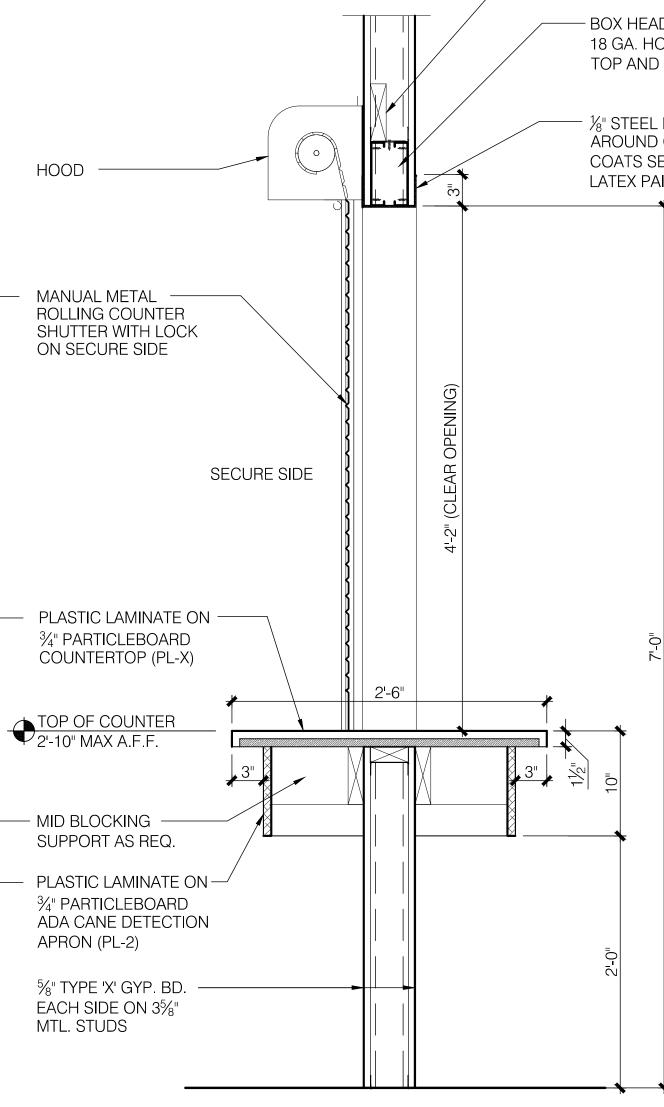




H&F	
	20 NW Main St Summit, MO 64086
Project No. Date: Issued For: Drawn By: Reviewed By: Revisions: <u>No.</u> Date	2024-032 04.26.24 Permit Submittal F. Crubaugh F. Crubaugh Description
	ATE OF MISSOLING
· · · · · · · · · · · · · · · · · · ·	MATTHEW M. UNGER NUMBER A-2021037400 tally signed by Matthew M. Unger ate: 2024.04.29 10:48:04-05'00' thew M. Unger - Architect ri License No. A-2021037400

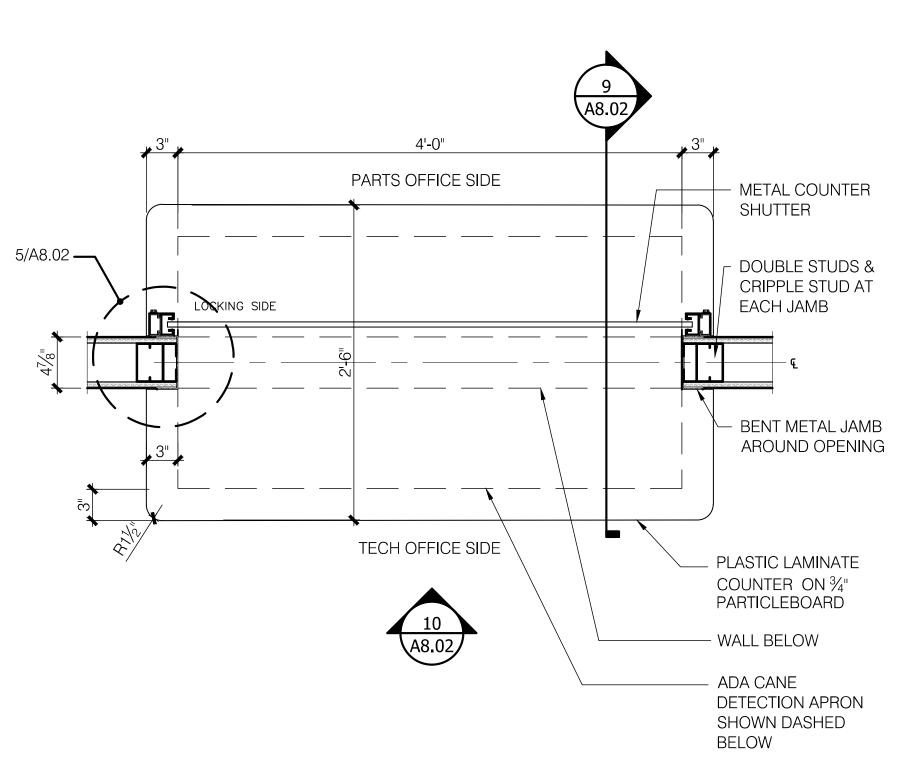
DOOR & WINDOW SCHEDULE



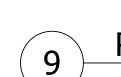


## PASS-THRU WINDOW PLAN Scale: 1" = 1'-0"

(11)

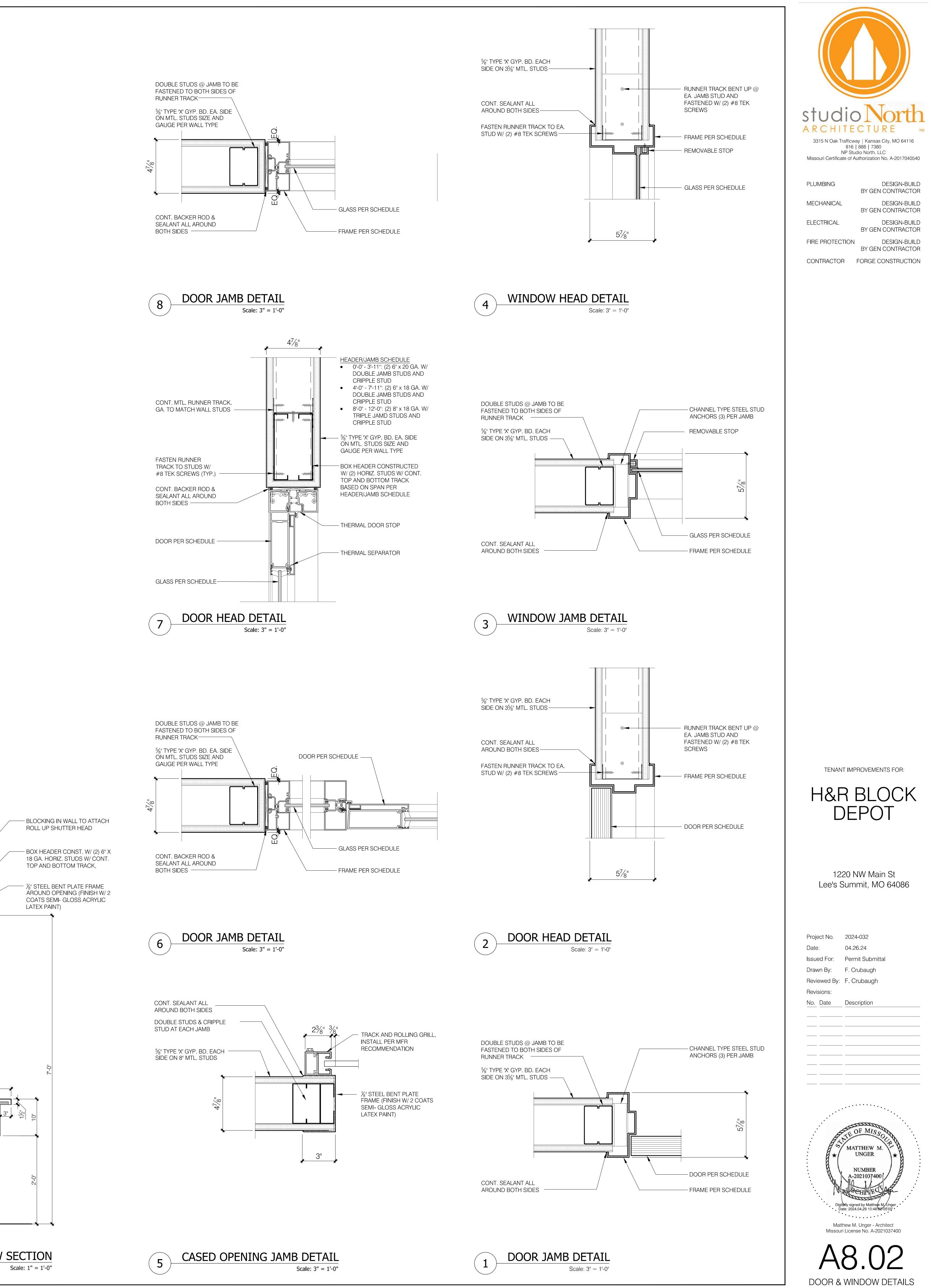


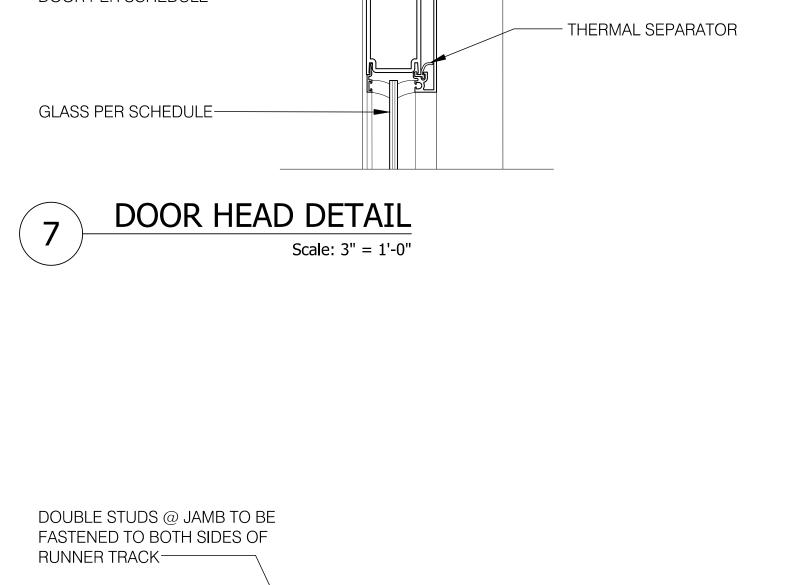
# 10 PASS-THRU WINDOW ELEVATION Scale: 1" = 1'-0"

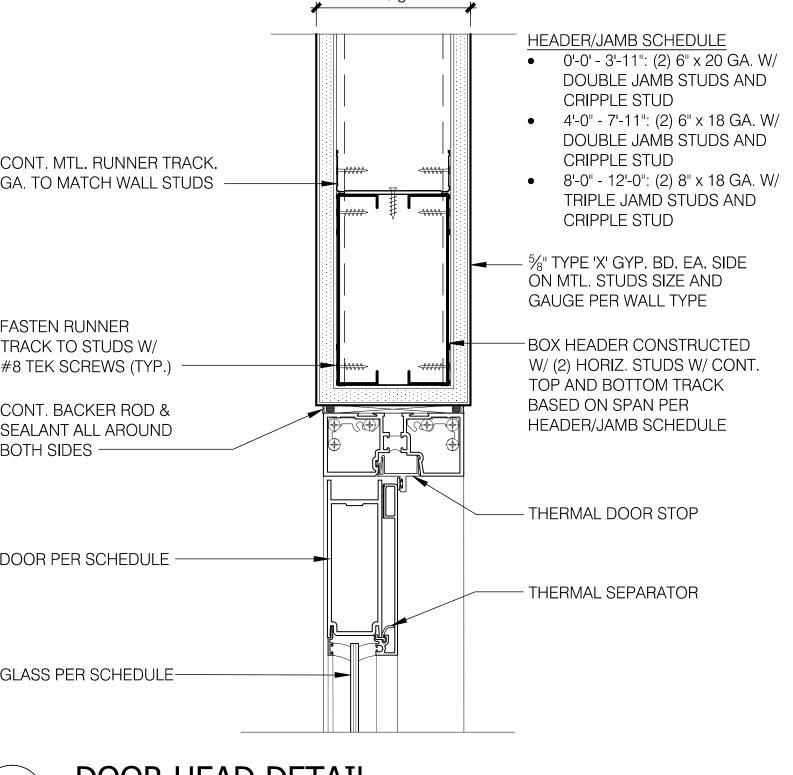


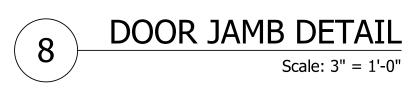
# 9 ROLLING SHUTTER WINDOW SECTION Scale: 1" = 1'-0"

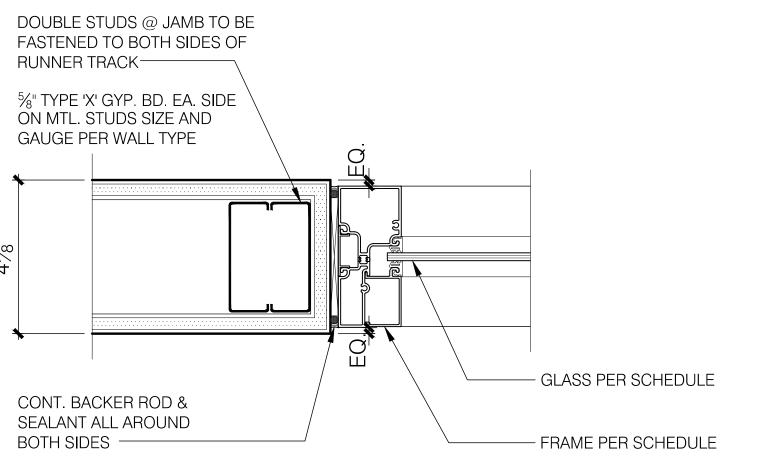


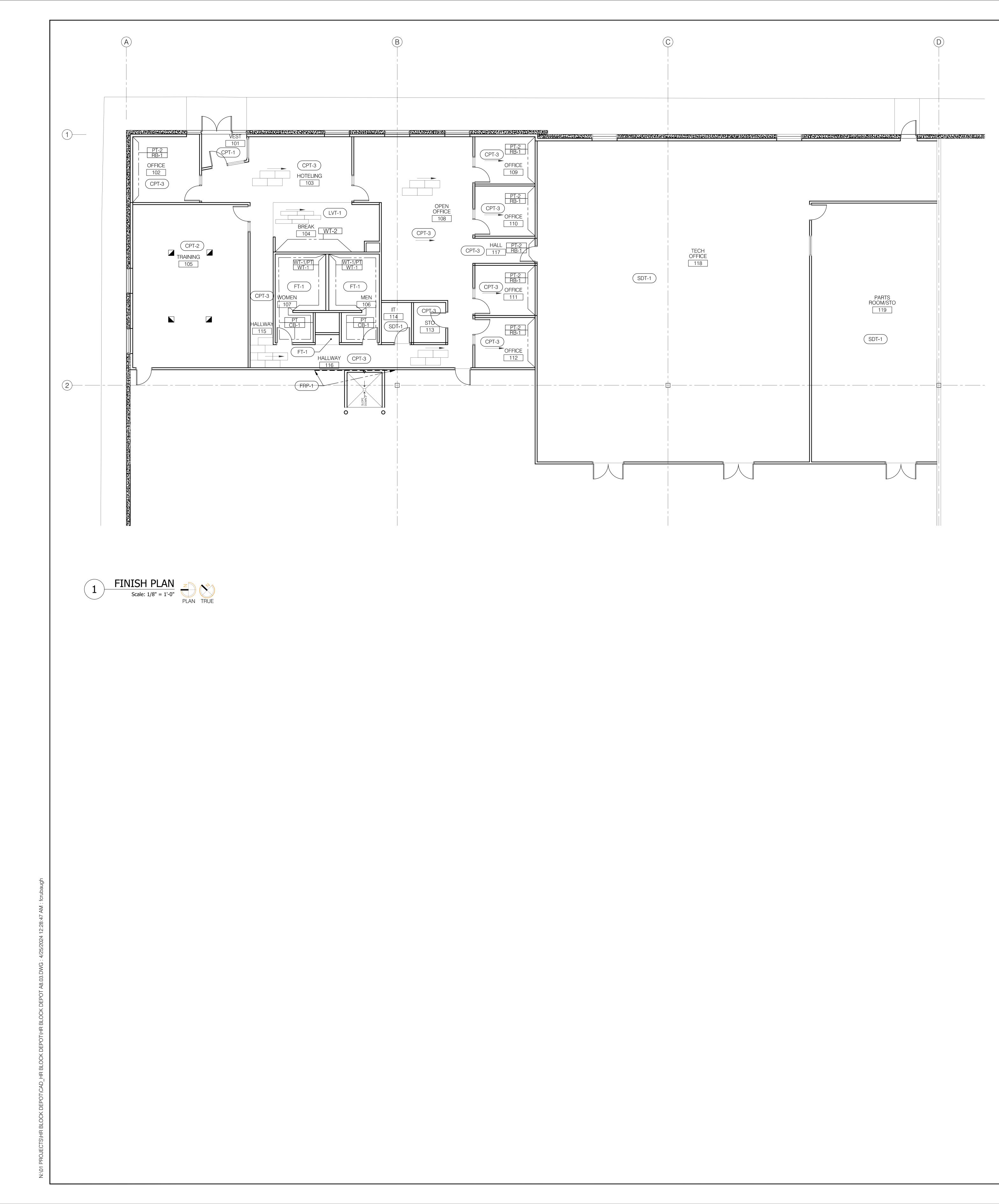












ROOM FLOOR BASE								WA	ALLS		CEILING			REMARKS
NO.	NAME	1	N	E	S	W	N	Е	S	W	MAT.	FIN.	HGT.	
101	VEST	CPT-1	RB	RB	RB	RB	PT	PT	PT	PT	GB-1			
102	OFFICE	CPT-3	RB	RB	RB	RB	PT-2	PT	PT	PT	SAT-1			
103	HOTELING	CPT-3	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
104	BREAK	LVT-1	RB	RB	RB	RB	PT	PT	PT	WT-2/PT	GB-1			2
105	TRAINING	CPT-2	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
106	MEN	FT-1	WT-1/CB	СВ	СВ	WT-1/CB	WT-1/PT	PT	PT	WT-1/PT	GB-1			1, 3
107	WOMEN	FT-1	СВ	СВ	WT-1/CE	BWT-1/CB	PT	PT	WT-1/PT	WT-1/PT	GB-1			1, 3
108	OPEN OFFICE	CPT-3	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
109	OFFICE	CPT-3	RB	RB	RB	RB	PT	PT	PT-2	PT	SAT-1			
110	OFFICE	CPT-3	RB	RB	RB	RB	PT	PT	PT-2	PT	SAT-1			
111	OFFICE	CPT-3	RB	RB	RB	RB	PT	PT	PT-2	PT	SAT-1			
112	OFFICE	CPT-3	RB	RB	RB	RB	PT	PT	PT-2	PT	SAT-1			
113	STORAGE	CPT-3	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
114	П	SDT-1	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
115	HALLWAY	CPT-3	RB	-	RB	RB	PT	-	PT	PT	SAT-1			
116	HALLWAY	CPT-3	-	RB	-	RB	-	PT	-	PT	SAT-1			
117	HALL	CPT-3	-	RB	RB	RB	-	PT	PT-2	PT	SAT-1			
118	TECH OFFICE	SDT-1	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
119	PARTS ROOM/STO	SDT-1	RB	RB	RB	RB	PT	PT	PT	PT	SAT-1			
201	OFFICE	CPT-3	RB	RB	RB	RB	PT-2	PT	PT	PT	SAT-1			
202	OFFICE	CPT-3	RB	RB	RB	RB	PT <b>-</b> 2	PT	PT	PT	SAT-1			

## REMARKS

1. CB-1 TO OCCUR ON WALLS WITHOUT WT-1 2. REFERENCE SHEET A4.01 FOR LOCATION OF TILE AT MILLWORK ELEVATION 3. REFERENCE FINISH PLAN FOR LOCATION OF FINISHES

# FINISH SCHEDULE LEGEND

## FLOOR FINISHES

CPT: (MODULAR CARPET TILE - INSTALL PER MFR'S INSTRUCTIONS) CPT-1: MFR: TBD, PATTERN: TBD, COLOR: TBD, INSTALLATION PATTERN: TBD (WALKOFF, BUDGET \$40 SY MATERIAL COST, NOT INCLUDING TAX, SHIPPING, GLUE, ACCESSORIES, MARKUP, INSTALL COST ETC) CPT-2: MFR: TBD, PATTERN: TBD, COLOR: TBD, INSTALLATION PATTERN: TBD (BUDGET \$25 SY MATERIAL COST, NOT INCLUDING TAX, SHIPPING, GLUE, ACCESSORIES, MARKUP, INSTALL COST ETC) CPT-3: PROVIDED BY TENANT AND INSTALLED BY CONTRACTOR

LVT: (5mm LUXURY VINYL TILE) \*\*NOTE NO FLOORING TRANSITIONS REQUIRED BETWEEN 5mm LVT AND CARPET TILE\*\* LVT-1: PROVIDED BY TENANT AND INSTALLED BY CONTRACTOR)

SDT:  $(12"x12"x_8"$  STATIC DISSIPATIVE TILE) SDT-1: MFR: ROPPE EDS, STYLE: STATIC DISSIPATIVE, COLOR: TBD, INSTALLATION PATTERN: RANDOM FT: (FLOOR PORCELAIN TILE W/ $\frac{1}{8}$ " MAX. STAIN RESISTANT GROUT) PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINT IN SLAB FT-1: MFR: TBD, STYLE: TBD, COLOR: TBD, SIZE: TBD, INSTALLATION PATTERN: TBD, GROUT COLOR: TBD (BUDGET \$5 SF MATERIAL COST, NOT INCLUDING TAX, SHIPPING, ACCESSORIES, MARKUP, INSTALL COST ETC)

## N: (NO FINISH) BASE FINISHES

- RB: (VULCANIZED RUBBER WALL BASE) RB-1: SIZE: 4", STYLE: COVE, MFR: ROPPE:, COLOR: TBD
- CB: (CERAMIC TILE W/ $\frac{1}{8}$ " MAX. STAIN RESISTANT GROUT JOINTS (SEE MATCHING FLOOR TILE FOR GROUT SELECTION) CB-1: 6" CUT TILE TO MATCH FT-1, SCHLUTER JOLLY AT EXPOSED EDGES
- N: (NO FINISH)

## WALL FINISHES

- PT: (ACRYLIC LATEX PAINT 2 FINISH COATS OVER PRIMER) ALL ACCENT PAINT LOCATIONS TBD PT-1: MFR: TBD, COLOR: TBD, SHEEN: EGGSHELL (FIELD COLOR) PT-2: MFR: TBD, COLOR: TBD, SHEEN: EGGSHELL (ACCENT COLOR) PT-3: MFR: TBD, COLOR: TBD, SHEEN: SEMI-GLOSS (HM DOOR AND FRAMES)
- FRP: (FIBERGLASS REINFORCED PLASTIC WALL PANELS W/ STANDARD BATTENS, EDGE AND CORNER TRIM) FRP-1: MFR: TBD, COLOR: TBD, HEIGHT: TBD
- WT: (WALL TILE W/  $\frac{1}{8}$ " MAX. STAIN RESISTANT GROUT JOINTS (SEE MATCHING FLOOR TILE FOR GROUT SELECTION) WT-1: MFR: TBD, STYLE: TBD, COLOR: TBD, SIZE: TBD, INSTALLATION PATTERN: TBD, GROUT COLOR: TBD, HEIGHT: 72", WALL TILE TO START AT FLOOR TILE, EXPOSED TOP AND CORNERS HAVE SCHLUTER JOLLY TRIM (BUDGET \$5 SF MATERIAL COST, NOT INCLUDING TAX, SHIPPING, ACCESSORIES, MARKUP, INSTALL COST ETC) WT-2: MFR: TBD, STYLE: TBD, COLOR: TBD, SIZE: TBD, INSTALLATION PATTERN: TBD, GROUT COLOR: TBD, EXPOSED TOP AND CORNERS HAVE SCHLUTER JOLLY TRIM (BUDGET \$6 SF MATERIAL COST, NOT INCLUDING TAX, SHIPPING, ACCESSORIES, MARKUP, INSTALL COST ETC)

## N: (NO FINISH) **CEILING FINISHES**

- SAT: (ACOUSTICAL CEILING TILE IN SUSPENDED GRID)
  - SAT-1: SIZE: 24"x24", MFR: USG, STYLE: ORION 75, GRID: 9/16" HEAVY DUTY WHITE
- GB: (GYPSUM WALLBOARD W/ FLAT FINISH ACRYLIC LATEX PAINT 2 FINISH COATS OVER PRIMER) GB-1: MFR: SHERWIN WILLIAMS, COLOR: SW 7005 "PURE WHITE", SHEEN: FLAT N: (NO FINISH)

# CASEWORK FINISHES

## PL: (PLASTIC LAMINATE)

- PL-1: (CABINET FRONTS), MFR: TBD, COLOR: TBD (PRICE PREMIUM LAMINATE) PL-2: (PASS TROUGH COUNTER), MFR: TBD, COLOR: TBD (PRICE PREMIUM LAMINATE)
- SS: (SOLID SURFACE) SS-1: (COUNTERTOPS), TYPE: QUARTZ, MFR: TBD, COLOR: TBD, PRICE GROUP 2

## GENERAL FINISH NOTES

1. PAINT COLOR FOR HOLLOW MTL. DOORS AND FRAMES PT-TBD (SEMII-GLOSS SHEEN)	
2. PROVIDE RUBBER TRANSITION STRIPS AT LOCATIONS WHERE DISSIMILAR FLOOR MATERIALS MEET	
3. PROVIDE ALUMINUM "SCHLUTER" TRANSITION STRIPS WHERE CERAMIC TILE MEETS DISSIMILAR FLOOR MATERIALS	
4. PROVIDE CONTINUOUS 6" BATT INSULATION ABOVE ALL CEILINGS	
5. FURNISH AND INSTALL RUBBER WALL BASE (RB-1) AND PAINT (PT-TBD) ON WAREHOUSE FACE OF ALL GYP. BD. WALL	.S

OOR MATERIALS



PLUMBING DESIGN-BUILD BY GEN CONTRACTOR MECHANICAL DESIGN-BUILD BY GEN CONTRACTOR ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION



1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Revisions:

Date: 04.26.24 Issued For: Permit Submittal Drawn By: F. Crubaugh Reviewed By: F. Crubaugh

No. Date Description

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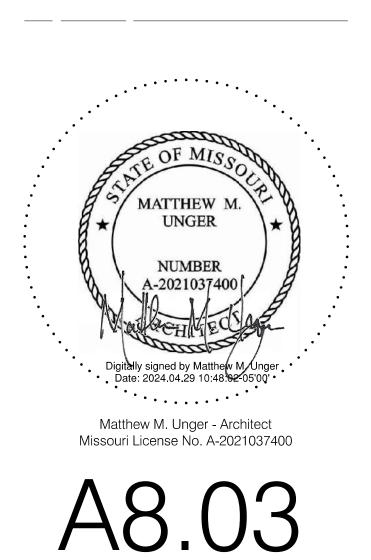
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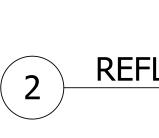
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FINISH SCHEDULE | FINISH PLAN



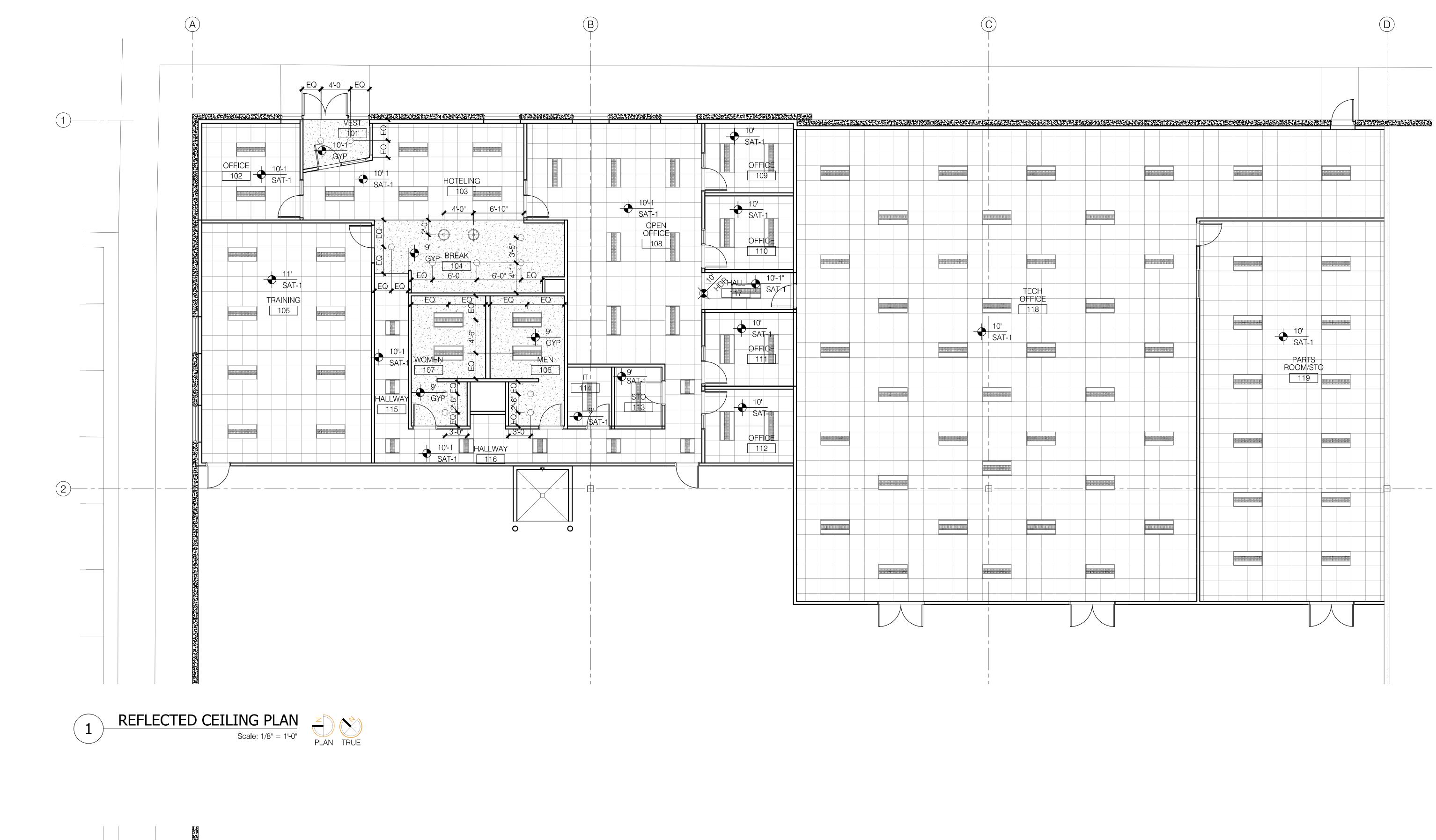


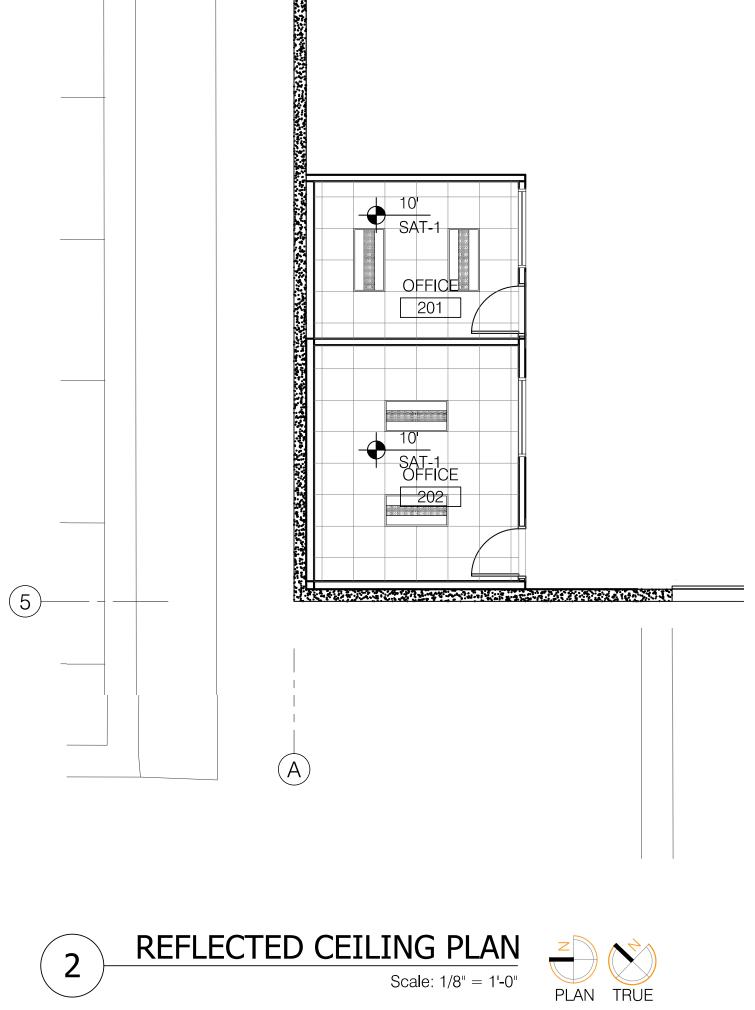
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## REFLECTED CEILING PLAN LEGEND

- 1. ALL CEILING GRID SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. SUPPORT SHALL NOT BE FROM METAL FLOOR OR ROOF DECK.
- 2. ALL MECHANICAL ELEMENTS SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL MEMBERS AND NO BUILDING ELEMENTS SHALL BE CONNECTED
- TO OR SUSPENDED FROM DUCTWORK. 3. IF ANY INTERSTITIAL SPACES WILL BE UTILIZED FOR RETURN AIR AND RIGID WALL INSULATION IS DETAILED TO BE INSTALLED ON EXTERIOR WALLS ABOVE CEILINGS, ALL RETURN AIR MUST BE DUCTED. "PLENUM RETURN IS PROHIBITED"

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2'-0"x 4'-0" SUSPENDED ACOUSTICAL CEILING TILE RE: FINISH SCHEDULE FOR SPECIFICATIONS FLAT FINISH ACRYLIC LATEX PAINT ON GYP. BD. 2 FINISH COATS OVER PRIMER

## 2'-0"x 4'-0" LED LIGHT FIXTURE - CENTER BASKET TROFFER (GYP. BD. RECESSED AT RESTROOMS)

RE: ELECTRICAL DWGS. FOR SPECIFICATIONS 2'-0"x 2'-0" LED LIGHT FIXTURE - CENTER BASKET TROFFER (GYP. BD. RECESSED AT RESTROOMS) RE: ELECTRICAL DWGS. FOR SPECIFICATIONS RECESSED CAN LIGHT

RE: ELECTRICAL DWGS. FOR SPECIFICATIONS

DECORATIVE ACOUSTIC PENDANT MFR: TBD RE: ELECTRICAL DWGS. FOR SPECIFICATIONS



PLUMBING	DESIGN-BUILD BY GEN CONTRACTOF
MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOF
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOF
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOP
CONTRACTOR	FORGE CONSTRUCTION



1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Date: Revisions: No. Date Description \_\_\_\_\_

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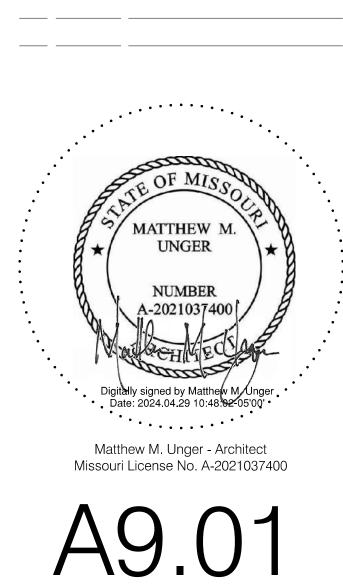
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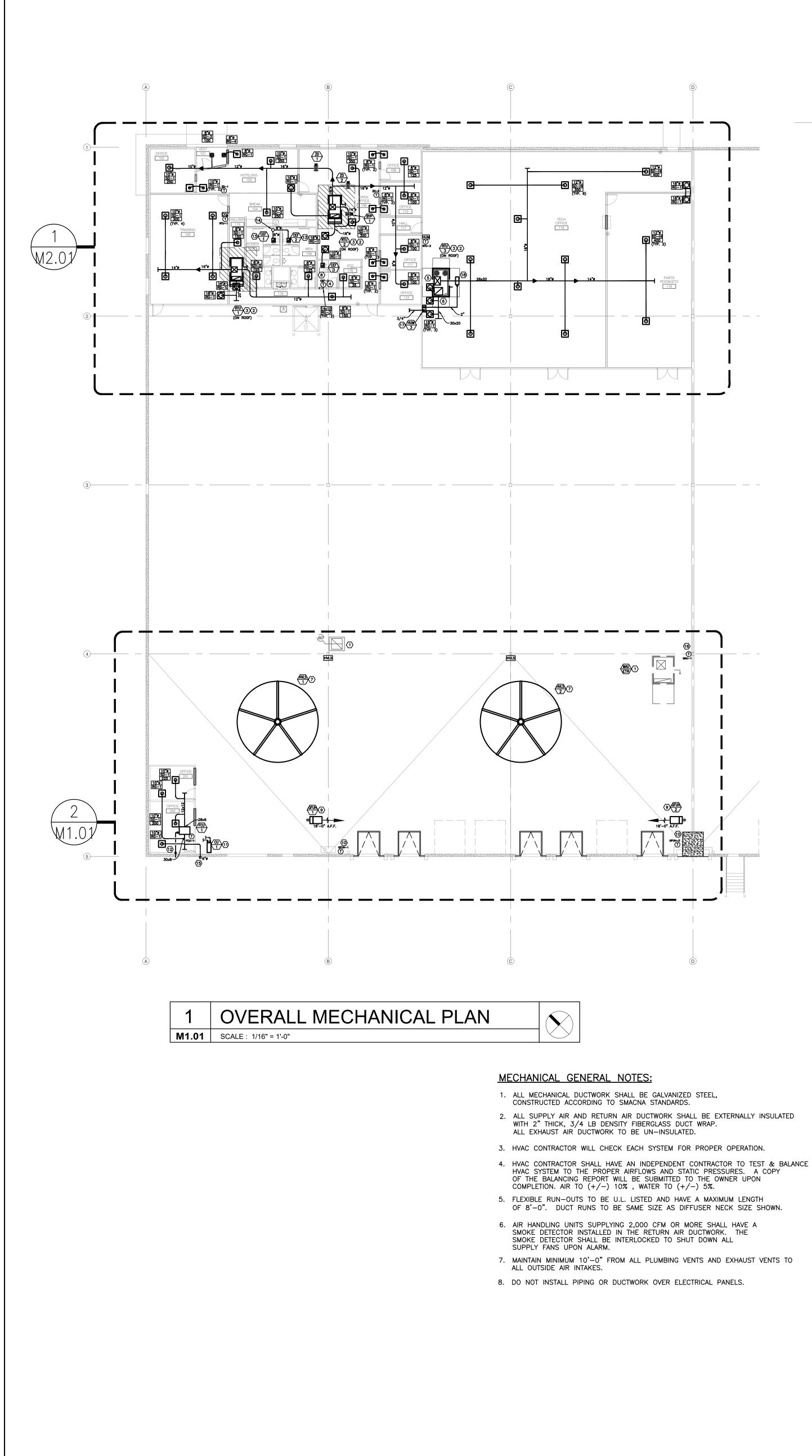
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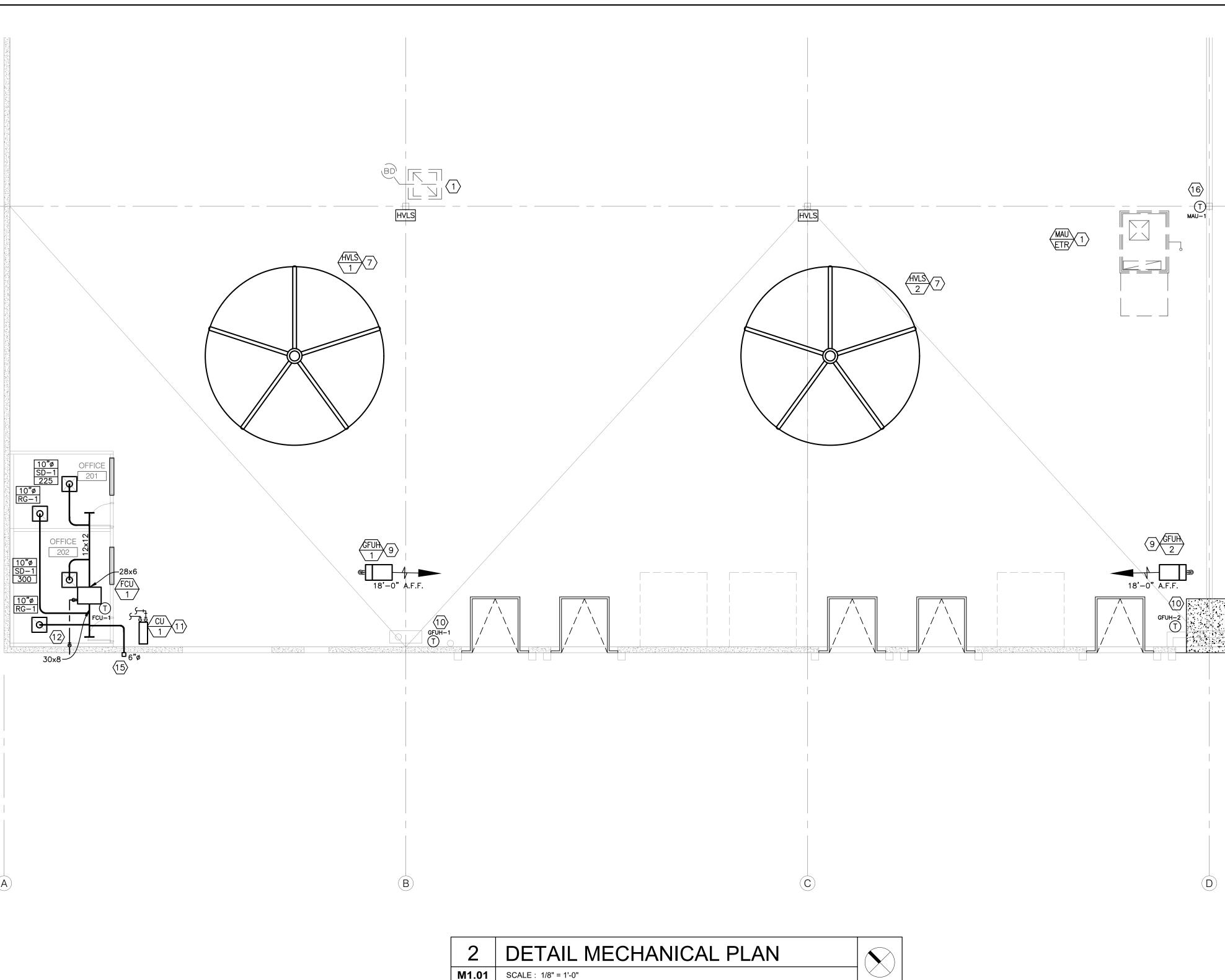
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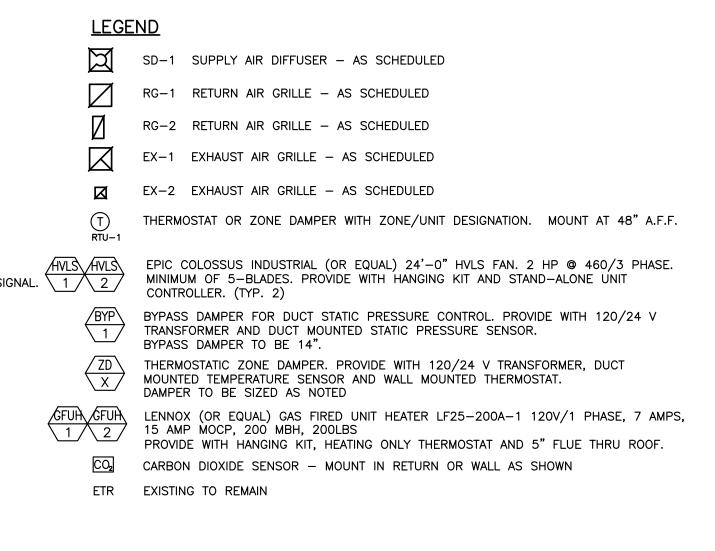
REFLECTED CEILING PLAN

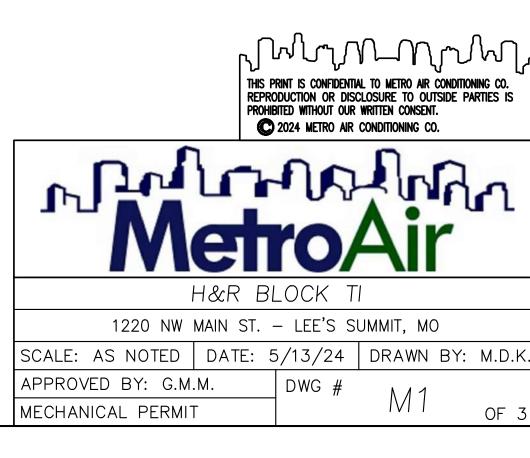


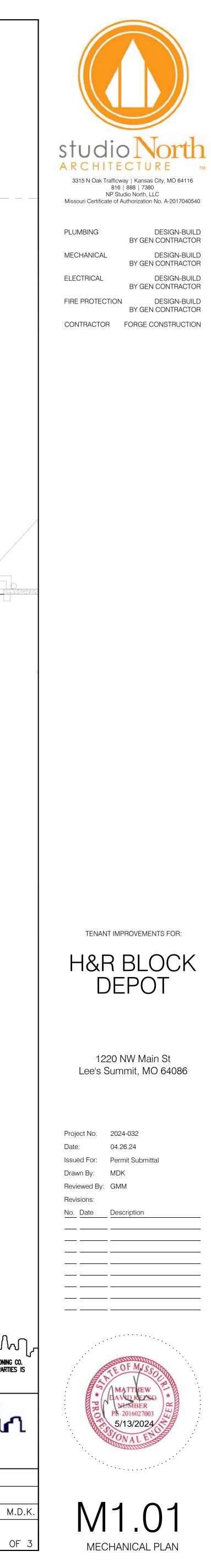


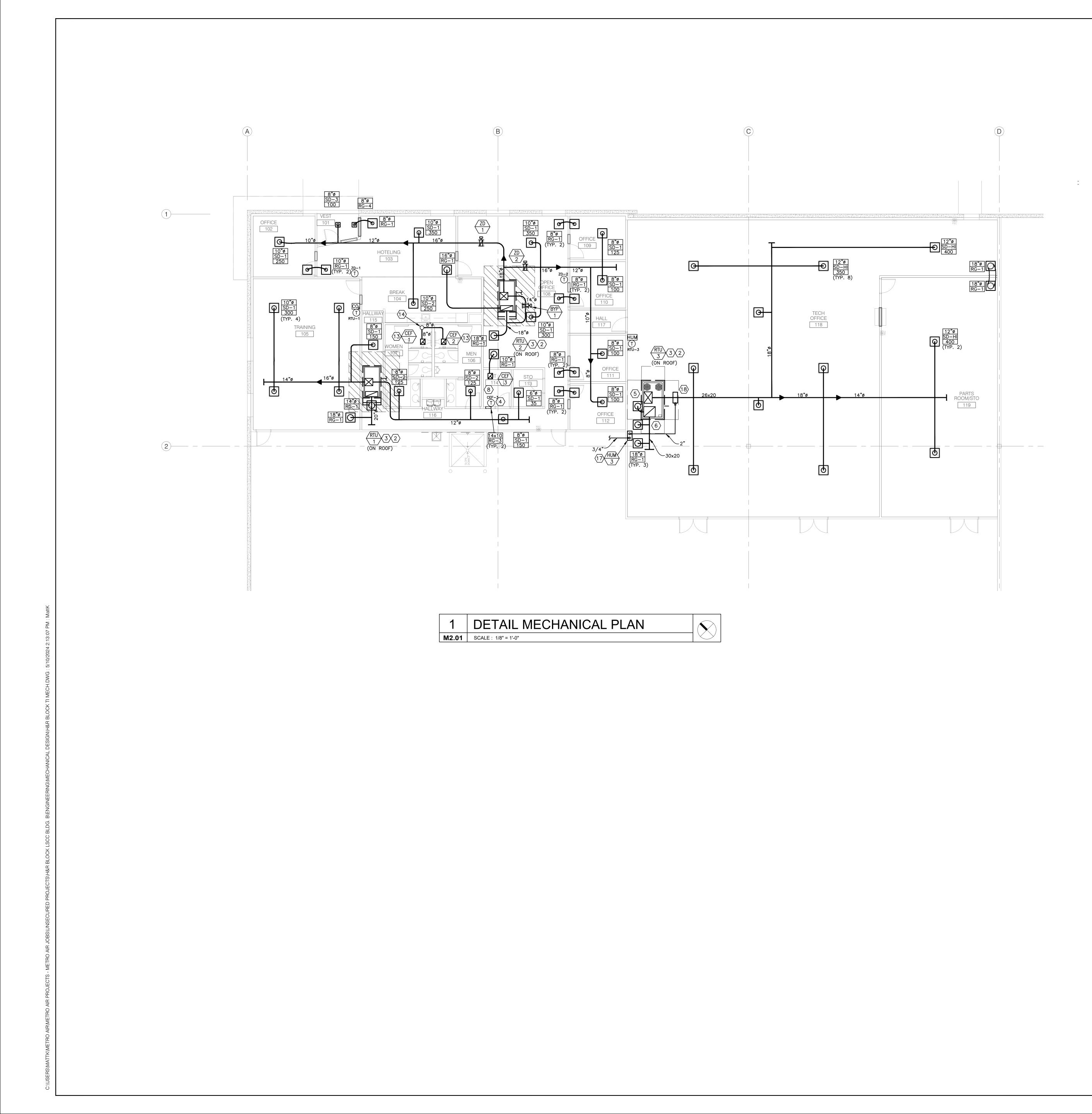
MECHANICAL PLAN NOTES:

- $\langle 1 \rangle$  existing shell building equipment to remain as currently installed.
- $\langle 2 \rangle$  ROUTE CONDENSATE PIPING TO DISCHARGE ON ROOF. (TYP ALL RTU'S)
- $\rangle$  coordinate location of RTU with fire suppression piping and structure. Provide internally lined SUPPLY AIR RETURN AIR DUCT DROP THRU ROOF. TRANSITION SUPPLY AIR AND RETURN AIR DUCTWORK BELOW ROOF DECK TO DUCTWORK AS SHOWN/NOTED AND PROVIDE WITH EXTERNAL DUCT INSULATION PER GENERAL NOTES.
- $\langle 4 \rangle$  LINE VOLTAGE THERMOSTAT FOR CEILING EXHAUST FAN CONTROL. THERMOSTAT TO BE INSTALLED BY ELECTRICIAN. (5) transition supply air from curb opening to 26x20 below roof.
- $\langle 6 
  angle$  TRANSITION RETURN AIR FROM CURB OPENING TO 30x20 BELOW ROOF.
- $\overline{7}$  HVLS FAN CONTROLLER TO BE INSTALLED ON ADJACENT COLUMN. ALL CONDUIT, CONTROLS AND WIRING BY OTHERS. COORDINATE EXACT LOCATION OF HVLS FANS WITH FIRE SUPPRESSION PIPING AND WAREHOUSE LIGHTING. HVLS FANS TO BE INSTALLED PER NFPA GUIDELINES AND BE INTERLOCKED WITH FIRE ALARM TO SHUT DOWN UPON SIGNAL. ASSOCIATED INTERLOCK WIRING BY FIRE ALARM CONTRACTOR.
- (8) RTU ZONE CONTROLLER LOCATION. PROVIDE WITH REQUIRED 120V POWER. (G) GAS-FIRED UNIT HEATER FLUE THRU ROOF. VERIFY SIZING WITH EQUIPMENT MANUFACTURER. MAINTAIN A
- $\sim$  MINIMUM OF 10'-0" FROM EDGE OF ROOF. 5" FLUE FOR LENNOX MODEL LF25-200 MBH. INSTALL AT 18'-0" A.F.F.
- (10) PROVIDE WITH WALL MOUNTED, HEATING ONLY THERMOSTAT MOUNTED ON WALL AT 4'-0" A.F.F. COORDINATE FINAL LOCATION WITH TENANT.
- $\langle 11 \rangle$  provide wall bracket for installation of condensing unit. Provide with drip pan.
- $\langle 12 \rangle$  ROUTE CONDENSATE THRU EXTERIOR WALL AND SPLASH ON GRADE.
- $\langle 13 \rangle$  Ceiling mounted exhaust air fan to be interlocked with restroom light switch. (by others)
- 10"¢ EXHAUST AIR DUCTWORK UP THRU ROOF WITH WEATHERCAP. MAINTAIN A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKES.
- $\langle 15 \rangle$  provide 6" outside air thru wall with weathercap. Wall coring by others.
- (16) RELOCATE EXISTING MAU CONTROLLER AS REQUIRED.
- 17 PROVIDE ELECTRIC STEAM GENERATING HUMIDIFIER. MOUNT ON WALL AT 2'-0" BELOW CEILING LEVEL TO TOP OF HUMIDIFIER. ROUTE STEAM PIPING TO DUCT MOUNTED STEAM MANIFOLD. PROVIDE DRAIN FROM HUMIDIFIER TO FLOOR DRAIN PROVIDED BY PLUMBER. PROVIDE 1/2" DOMESTIC WATER CONNECTION AND BACKFLOW AS REQUIRED. (BY OTHERS) PROVIDE 2" STEAM LINE FROM HUMIDIFIER TO DUCT MOUNTED DISPERSION TUBE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUBMITTAL.
- 18 PROVIDE DUCT MOUNTED STEAM DISPERSION MANIFOLD. CONNECT TO STEAM AND PROVIDE CONDENSATE AS REQUIRED.



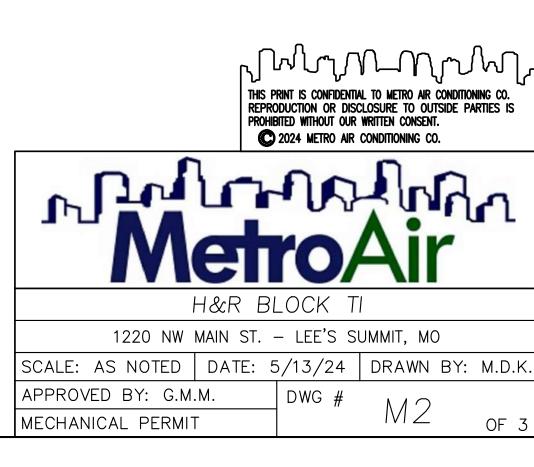


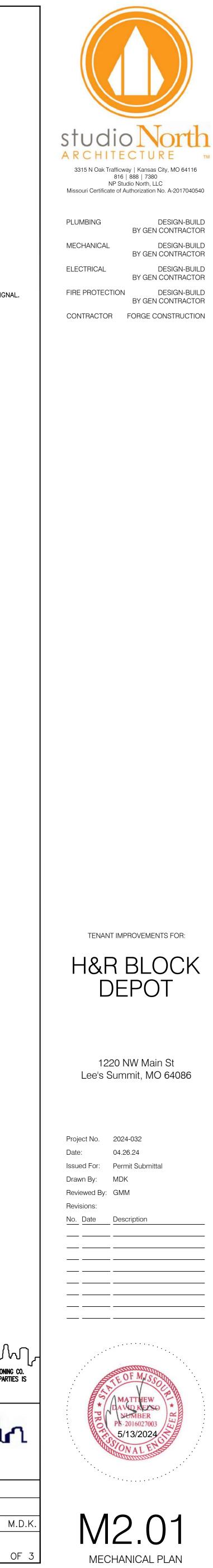




## MECHANICAL PLAN NOTES:

- $\langle \underline{1} \rangle$  existing shell building equipment to remain as currently installed.
- $\left< 2 \right>$  ROUTE CONDENSATE PIPING TO DISCHARGE ON ROOF. (TYP ALL RTU'S)
- 3 COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED SUPPLY AIR RETURN AIR DUCT DROP THRU ROOF. TRANSITION SUPPLY AIR AND RETURN AIR DUCTWORK BELOW ROOF DECK TO DUCTWORK AS SHOWN/NOTED AND PROVIDE WITH EXTERNAL DUCT INSULATION PER GENERAL NOTES.
- 4 LINE VOLTAGE THERMOSTAT FOR CEILING EXHAUST FAN CONTROL. THERMOSTAT TO BE INSTALLED BY ELECTRICIAN. 5 TRANSITION SUPPLY AIR FROM CURB OPENING TO 26×20 BELOW ROOF.
- $\overline{6}$  TRANSITION RETURN AIR FROM CURB OPENING TO 30x20 BELOW ROOF.
- 7HVLS FAN CONTROLLER TO BE INSTALLED ON ADJACENT COLUMN. ALL CONDUIT, CONTROLS AND WIRING BY OTHERS.<br/>COORDINATE EXACT LOCATION OF HVLS FANS WITH FIRE SUPPRESSION PIPING AND WAREHOUSE LIGHTING.<br/>HVLS FANS TO BE INSTALLED PER NFPA GUIDELINES AND BE INTERLOCKED WITH FIRE ALARM TO SHUT DOWN UPON SIGNAL.<br/>ASSOCIATED INTERLOCK WIRING BY FIRE ALARM CONTRACTOR.
- 8 RTU ZONE CONTROLLER LOCATION. PROVIDE WITH REQUIRED 120V POWER.
- 9 GAS-FIRED UNIT HEATER FLUE THRU ROOF. VERIFY SIZING WITH EQUIPMENT MANUFACTURER. MAINTAIN A MINIMUM OF 10'-0" FROM EDGE OF ROOF. 5" FLUE FOR LENNOX MODEL LF25-200 MBH. INSTALL AT 18'-0" A.F.F.
- (10) PROVIDE WITH WALL MOUNTED, HEATING ONLY THERMOSTAT MOUNTED ON WALL AT 4'-0" A.F.F. COORDINATE FINAL LOCATION WITH TENANT.
- $\langle 11 \rangle$  provide wall bracket for installation of condensing unit. Provide with drip pan.
- $\overline{\langle 12 \rangle}$  route condensate thru exterior wall and splash on grade.
- $\langle \overline{13} \rangle$  ceiling mounted exhaust air fan to be interlocked with restroom light switch. (by others)
- $10^{\circ}$  20 EXHAUST AIR DUCTWORK UP THRU ROOF WITH WEATHERCAP. MAINTAIN A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKES.
- $\langle 15 \rangle$  PROVIDE 6" OUTSIDE AIR THRU WALL WITH WEATHERCAP. WALL CORING BY OTHERS.
- 16 RELOCATE EXISTING MAU CONTROLLER AS REQUIRED.
- PROVIDE ELECTRIC STEAM GENERATING HUMIDIFIER. MOUNT ON WALL AT 2'-0" BELOW CEILING LEVEL TO TOP OF HUMIDIFIER. ROUTE STEAM PIPING TO DUCT MOUNTED STEAM MANIFOLD. PROVIDE DRAIN FROM HUMIDIFIER TO FLOOR DRAIN PROVIDED BY PLUMBER. PROVIDE 1/2" DOMESTIC WATER CONNECTION AND BACKFLOW AS REQUIRED. (BY OTHERS) PROVIDE 2" STEAM LINE FROM HUMIDIFIER TO DUCT MOUNTED DISPERSION TUBE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUBMITTAL.
- 18 PROVIDE DUCT MOUNTED STEAM DISPERSION MANIFOLD. CONNECT TO STEAM AND PROVIDE CONDENSATE AS REQUIRED.





1 -	SECTION 1500 - MECHANICAL GENERAL PROVISIONS			ROOFTOP HVAC UNIT		
1.1 A.	DESCRIPTION: Division 15 shall be governed by all applicable provisions of the Contract Documents. The Mechanical Contractor shall furnish, install and connect all materials, equipment, apparatus, mechanical systems and incidentals required for complete and working installation. The Contractor shall supply all necessary labor, equipment, tools, insurance, taxes services; and The Contractor shall assume full responsibility for all obligations associated with completion of mechanical work as provided by the Contract Documents.					
	STANDARDS, REGULATIONS AND CODES: The work shall comply with the edition of the applicable standards, regulations and codes currently in force of all State and location authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the Uniform Plumbing and Mechanical Codes shall apply to this work.	RETU	L SIZE RN AIR DROP			
	The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with. The Mechanical Contractor shall be licensed to perform mechanical work in the municipality in which the project is	1. PROVII THAN	REQUIRE	NING THROUGH R ED TO ALLOW DU DR PROVIDE FULL	CTS TO PAS	SS T
D.	located. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.		$\left(1\right)$	) ROOFTC	<u>)PUN</u>	<u>  T</u>
	LOCAL CONDITIONS: The Contractor shall carefully examine the local conditions and existing installations and shall thoroughly familiarize himself with all existing conditions which may affect his work. The Contractor shall locate all existing utilities and protect them during the execution of the work.		U			
B.	The Contractor shall examine the Architectural, Mechanical and Electrical Drawings and Specifications to familiarize himself with the type of construction, materials, and equipment to be used for all work and how it will affect the installation of his contract.	EXHAUST FAN 1. CONTRC THE EXHAUST	ÚL:	ID CEF-2) LI INTERLOCKED WIT	TH WALL MOU	JNTED
	CUTTING AND PATCHING: All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Architect. All areas disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Architect.	1. DESCRIF EACH SINGLE- DIRECT EXPAN ECONOMIZERS	PTION: ZONE PAC ISION COC	TANT VOLUME WITH S CKAGED ROOFTOP L DLING COIL, GAS HE SE 0-100% FULLY MO	JNIT (RTU) WIL AT, SINGLE-S	LL BE SPEED
	OPERATION DURING CONSTRUCTION: Mechanical equipment shall not be used during construction unless instructed by the General Contractor. The mechanical contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project at additional costs to the GC and/or owner.	DETERMINED <sup>-</sup> THERMOSTAT. 3. SUPPLY	IALL BE FL THROUGH AIR FAN:	JRNISHED WITH A TH I A USER-ADJUSTABI	LE PROGRAM	IMABL
.6	Warranty periods shall not commence until final acceptance by the Owner/Substantial Completion. SAFETY REGULATIONS:	FAN SHALL CY FAN SHALL OF 4. MECHAN	CLE ON A PERATE CO NICAL COO	OLING:	NG OR COOL	.ING. \
	All Mechanical work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.	SUPPLY FAN W	VILL BE EN CTORY CC	E COOLING COMPRE NERGIZED (AUTO MC DNTROL SEQUENCES MOSTAT.	DE) AND STA	GE C
A.	The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat and orderly manner.	5. GAS HE/ THE RTU SHAL HEATING FROM	ATING: _L CYCLE ( M THE ZOI	GAS HEATING STAGE NE SENSOR, THE SU THE SPACE HEATING	JPPLY FAN WIL	LL BE
	The Contractor shall clean and maintain his portion of the work as specified in the General Conditions. The Contractor shall remove from the premises all waste material present as a result of his work.	THERMOSTAT. 6. ECONOI	MIZER:	THE SPACE HEATING		
.8 A.	GRAPHIC REPRESENTATION AND JOB CONDITIONS: The drawings shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned; and do not necessarily indicate every required item.		IMUM POS SHALL SET	VHEN ECONOMIZER SITION AND FULL OP THE		
B.	The Architectural drawings take precedence over the mechanical drawings in the representation of the general construction work.	7. UNOCCI DURING UNOC	UPIED MO CCUPIED N	DE: MODE, THE UNIT SHA POINT IS EXCEEDED,		
C. .9	Arrange work in a neat, well organized manner. Coordinate work with other trades involved. GUARANTEES:	8. BAROME THE BAROMET	ETRIC REL	rs, plus or minus / .ief damper: .f damper consist		
A.	The Contractor shall guarantee all work performed and materials and equipment furnished under this contract, against defects in materials and workmanship for a period of one year from the Date of the Owner's Final Acceptance of the Work, or as noted in each section.	WHEN UNIT IS	e air dam Not in eg	IPER: CONOMIZER MODE # IMUM PER THE UNIT		
	MOTORS AND CONTROLS: All motors furnished under this specification shall be recognized manufacturer, of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.	CLOSED WHEN 10. SMOKE UPON DETECT OUTDOOR AIR SMOKE DETEC	N THE SUF DETECTIC ION OF SI DAMPERS CTOR INST	PPLY FAN IS OFF. ON CONTROL: MOKE FROM THE RE S SHALL CLOSE. ON ALLATION BY OTHEF CTOR TO THE EMER	TURN DUCT S CE THE DETER RS, AS NECES	SMOK CTOF SSARY
						DOW
	PIPING IN ELECTRICAL ROOMS: No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is	11. CO2: WHERE WALL	MOUNTED	) CO2 SENSOR IS SH LEDMINIMUM AND M	HOWN/NOTED	
	No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided.	11. CO2: WHERE WALL	MOUNTED	CO2 SENSOR IS SH	HOWN/NOTED	
A.	No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided. END OF SECTION SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING	11. CO2: WHERE WALL	MOUNTED	CO2 SENSOR IS SH	HOWN/NOTED	
A. .1	No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided.	11. CO2: WHERE WALL	MOUNTED	CO2 SENSOR IS SH	HOWN/NOTED	
A. .1 A.	No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided. END OF SECTION SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING SCOPE: The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect. SHEET METAL: Provide ductwork shown with necessary dampers. Construction of new galvanized prime grade steel sheets per	11. CO2: WHERE WALL BETWEEN THE	MOUNTEE	D CO2 SENSOR IS SH LEDMINIMUM AND M	HOWN/NOTED MAXIMUM VEN	ITILAT
A. 1 A.	No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided. END OF SECTION SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING SCOPE: The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items berein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect.	11. CO2: WHERE WALL BETWEEN THE	MOUNTED	CO2 SENSOR IS SH		
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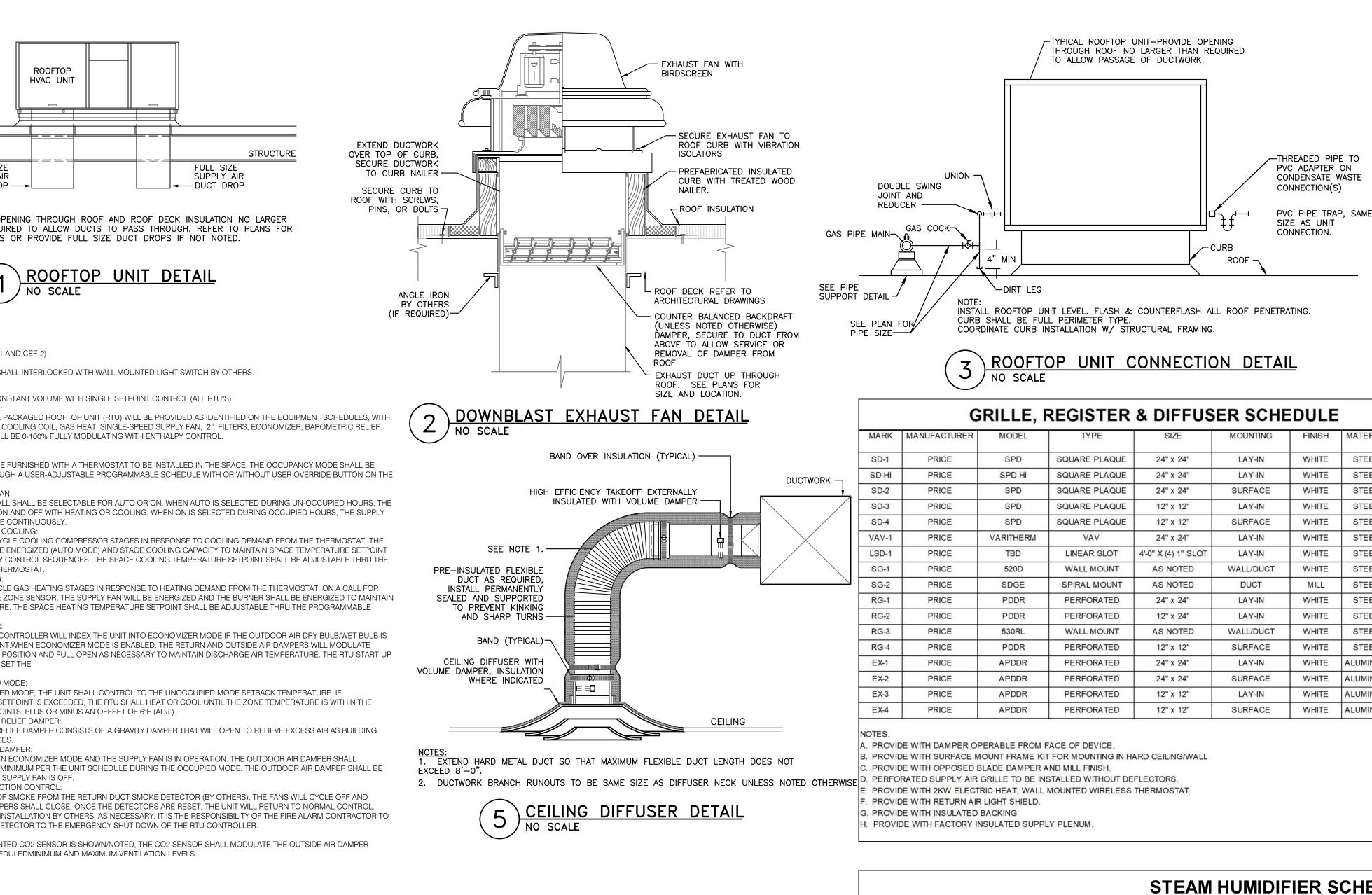
OVIDE WITH 25'-0", 1/4" LIQUID AND 1/2" SUCTION PRE-INSULATED LINESET AS REQUIRED. ECTRICAL CONTRACTOR TO PROVIDE WIRING BETWEEN CU AND FCU. OUTE CONDENSATE TO DISCHARGE AT GRADE AS REQUIRED. ATING CAPACITY BASED ON TEMPERATURES SHOWN.

MANUFACTURER MODEL LENNOX KGB060S4B LENNOX KGB060S4B LENNOX SGH120H4M UIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE. OVIDE WITH 2", 30% EFFICIENT PLEATED THROWAWAY AIR FILTERS. OVIDE WITH MANUFACTURERS STANDARD 14" INSULATED ROOF CURB.

OVIDE WITH PLEATED FILTERS AND HAIL GUARDS. OVIDE WITH FACTORY MOUNTED ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.

OVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.

G. RETURN AIR SMOKE DETECTOR FURNISHED AND INSTALLED BY OTHERS.



## EXHAUST FAN SCHEDULE

MANUFACTURER	QUANTITY	MODEL	LOCATION/	SERVICE	FAN			ELECTRICAL	WEIGHT	NOTES	
			MOUNTING		CFM	ESP (IN)	RPM	HP/WATTS	(V/PH)	(LBS)	
GREENHECK	1	SP-A250	CEILING	RESTROOM EXHAUST	225	0.375	1315	1000	120/1	24	A, B, E
GREENHECK	1	SP-A250	CEILING	RESTROOM EXHAUST	225	0.375	1315	1000	120/1	24	A, B, E
GREENHECK	1	SP-A250	CEILING	IT ROOM	200	0.375	1315	1000	120/1	24	A, D, D

## VIDE FACTORY MOUNTED DISCONNECT SWITCH. RLOCK EXHAUST FAN WITH RESTROOM LIGHT SWITCH.

NISH WITH WALL MOUNTED LINE VOLTAGE THERMOSTAT. THERMOSTAT TO BE INSTALLED BY ELECTRICAL CONTRACTOR AND INTERLOCKED WITH ASSOCIATED LOUVER. VIDE WITH UNIT MOUNTED SPEED CONTROLLER, HANGING BRACKET, BACKDRAFT DAMPER, ROUND DUCT CONNECTION AND WHITE GRILLE.

## DUCTLESS SPLIT SYSTEM HEAT PUMP EQUIPMENT SCHEDULE

ANUFACTURER MODEL		TYPE	SU	SUPPLY FAN		COOLING COIL		HEATING COIL		ELECTR	ICAL	VENTILATION	WEIGHT	NOTES
			CFM	ESP (IN)	TH (MBH)	SH (MBH)	TH (MBH)	°F	MCA	MOCP	V/PH	(CFM)	(LBS)	
LENNOX	MMDB018S4-2P	DUCTED FAN-COIL	529		18	12	20	50°F	1			30	60	F, G
LENNOX	MPC018S4S-1P	CONDENSING UNIT							18	25	208/1		125	A - E

OVIDE WITH WIRED TEMPERATURE CONTROLLER.

N-COIL TO BE POWERED FROM CONDENSING UNIT POWER CIRCUIT. REFER TO INSTALLATION INSTRUCTIONS.

PPORT CONDENSING FROM TILT WALL WITH CONDENSER HANGING BRACKET.

# PACKAGED ROOFTOP UNIT (DX COOLING/GAS HEAT)

	NOMINAL	QUANTITY	SERVICE	UNIT		SUPF	PLY FA	N		COOLI	NG COI	-	(	GAS HEAT	ING	MINIMUM	DESIGN/MAX	E	LECTRIC	CAL	WEIGHT	ARI MINUMU
	TONNAGE			TYPE	CFM	ESP (IN)	HP	FAN	SAT	TH	SH	COOLING STAGES	INPUT (MBH)	OUTPUT (MBH)	STAGES	VENTILATION (CFM)	VENTILATION (CFM)	MCA	MOCP	V/PH	(LBS)	EER (SEER)
						(11)		STAGES	(DD/VVD)			STAGES				(CFIVI)						(SEEK)
В	5	1	MAIN OFFICE	CV	2,000	0.75	1.0	1	58/57	60	47	1	108	86	2	215	215	13	20	460/3	1,050	11.0
В	5	1	MAIN OFFICE	CV	2,000	0.75	1.0	1	58/57	60	47	1	108	86	2	215	215	13	20	460/3	1,050	11.0
N	10	1	TECH ROOM	CV	4,000	0.75	3.0	2	59/58	120	93	2	180	144	2	365	365	24	30	460/3	2,000	11.0
	2	2	2	<i></i>		2	S	1889 - D					13 - U		5		2	8	50)			50 

DISCONNECT SWITCH AND GFCI OUTLET TO BE FURNISHED BY ELECTRICIAN. PROVIDE WITH FACOTRY MOUNTED HOT-GAS REHEAT COIL FOR DEHUMIDIFICATION.

ILLE, I	REGISTER	& DIFFUS	RILLE, REGISTER & DIFFUSER SCHEDULE												
MODEL	TYPE	SIZE	MOUNTING	FINISH	MATERIAL	NOTES									
SPD	SQUARE PLAQUE	24" x 24"	LAY-IN	WHITE	STEEL	G									
SPD-HI	SQUARE PLAQUE	24" x 24"	LAY-IN	WHITE	STEEL	G									
SPD	SQUARE PLAQUE	24" x 24"	SURFACE	WHITE	STEEL	G, B									
SPD	SQUARE PLAQUE	12" x 12"	LAY-IN	WHITE	STEEL	G									
SPD	SQUARE PLAQUE	12" x 12"	SURFACE	WHITE	STEEL	G, B									
ARITHERM	VAV	24" x 24"	LAY-IN	WHITE	STEEL	G									
TBD	LINEAR SLOT	4'-0" X (4) 1" SLOT	LAY-IN	WHITE	STEEL	Н									
520D	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	А									
SDGE	SPIRAL MOUNT	AS NOTED	DUCT	MILL	STEEL	A, C									
PDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	STEEL	G									
PDDR	PERFORATED	12" x 24"	LAY-IN	WHITE	STEEL	G									
530RL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	B, G									
PDDR	PERFORATED	12" x 12"	SURFACE	WHITE	STEEL	B, G									
APDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	ALUMINUM	A, B, G									
APDDR	PERFORATED	24" x 24"	SURFACE	WHITE	ALUMINUM	G									
APDDR	PERFORATED	12" x 12"	LAY-IN	WHITE	ALUMINUM	A, B, G									
APDDR	PERFORATED	12" x 12"	SURFACE	WHITE	ALUMINUM	A, B, G									

UNIT

SERVED

RTU-1

RTU-2

RTU-3

FCU-1

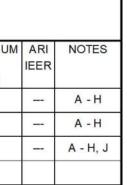
STEAM HUMIDIFIER SCHEDULE														
MARK	MANUFACTURER	QUANTITY	MODEL	TYPE	LOCATION/	CAPACITY	TOTAL AIRFLOW	OUTSIDE AIR	кw		LECTRIC		WEIGHT	NOTES
				(GAS OR ELECTRIC)	MOUNTING	(LBS/HR)	(CFM)	(CFM)		MCA	MOCP	V/PH	(LBS)	
HUM -1	NEPTRONIC	1	SKE4-N20M-480-3	ELECTRIC	SPACE	60	4,000	400	20	25		460/3	290	A - E
NOTES:														
	OUNTED AIRLFOW PR E FACTORY MOUNTED													

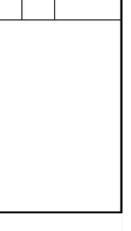
. PROVIDE FIELD MOUNTED HIGH-LIN ). WATER SUPPLY WITH SHUT-OFF VALVE AND BACKFLOW (IF REQUIRED) BY OTHERS.

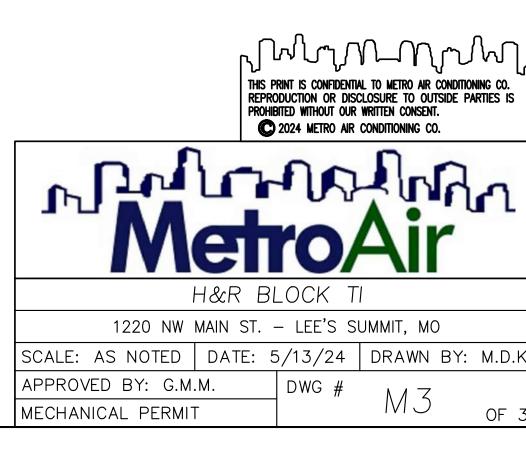
# . PROVIDE WITH CONDENSATE DRAIN COOLER AS REQUIRED.

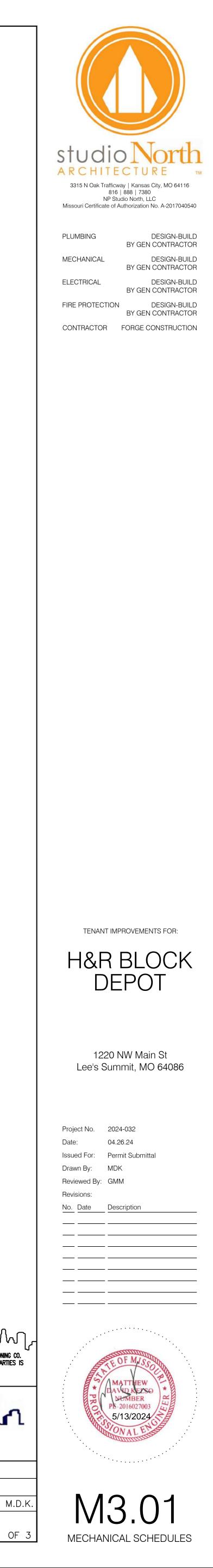
	OUTSIDE AIR CALCULATIONS												
OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000	FIXED SEATING	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR	REQUIRED OUTSIDE AIR	TOTAL REQUIRED	NOTE	S				
OFFICE	105	5	10-161 C-0	1	5	0.06	9	А					
CORRIDOR	350					0.06	21	А					
RESTROOMS	340	-				0.06	20	А					
TRAINING/CLASSROOM	750	28	24	21	5	0.06	165	А					
REQUIRED VENTILATION													
OFFICE	1,415	5		7	5	0.06	120	А					
LOBBY	340	10		3	5	0.06	37	А					
CORRIDOR/VEST	50					0.06	3	A					
BREAK ROOM	240	25		6	5	0.06	44	A					
	-				REQUIRE	D VENTILATION	205	CFM	С				
OFFICE	5,100	5	10	26	5	0.06	356	А					
					REQUIRE	D VENTILATION	356	CFM	С				
OFFICE	325	5		2	5	0.06	28	А					
					REQUIRE	D VENTILATION	28	CFM	С				

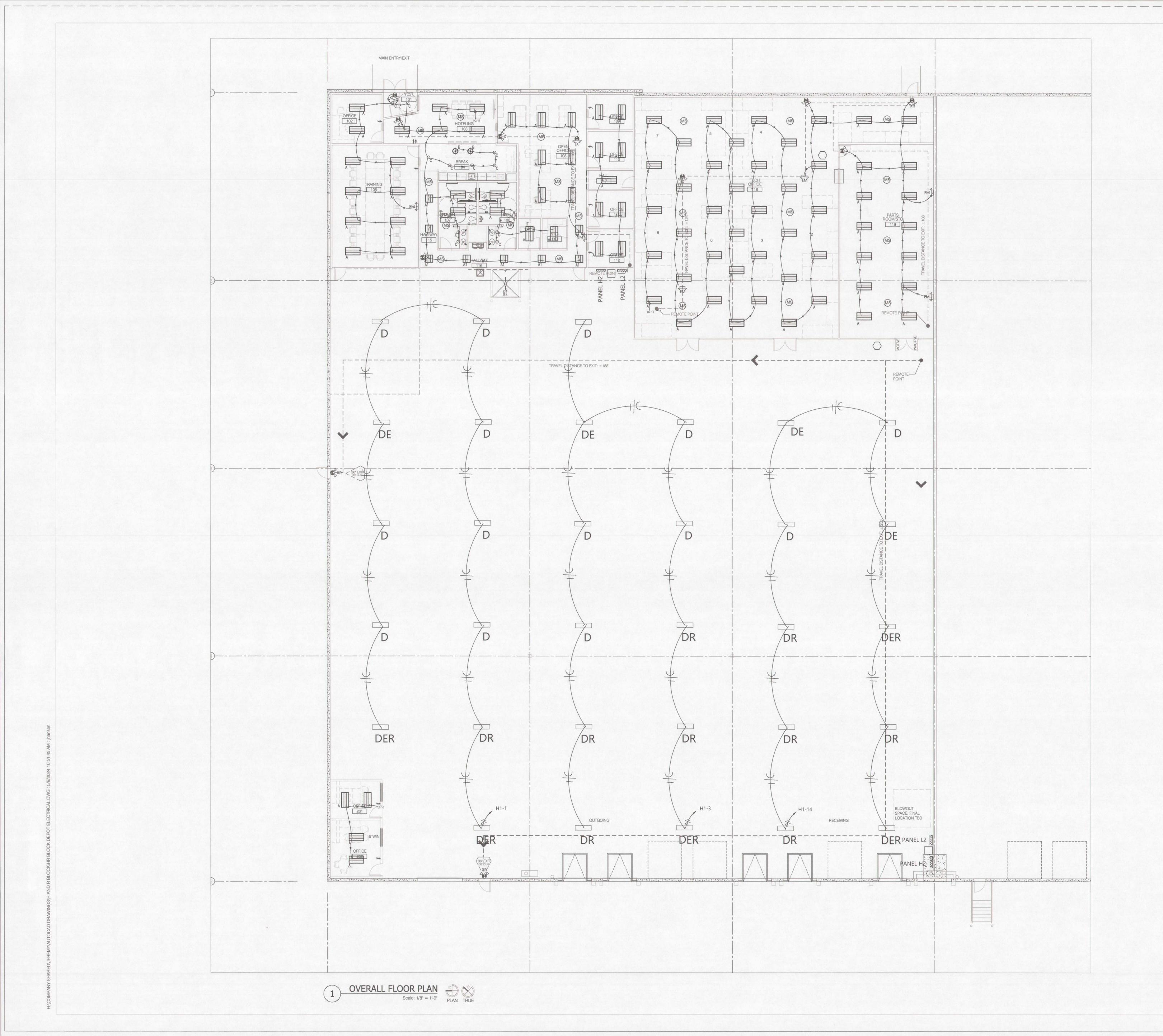
VENTILATION RATES ARE TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY. 3. VENTILATION IS BASED ON TOTAL QUANTITY OF PEOPLE TAKEN FROM NUMBER OF ACTUAL SEATING SHOWN ON ARCHITECTURAL FLOOR PLAN. REFER TO EQUIPMENT SCHEDULES FOR ACTUAL VENTILATION AIRFLOWS. OCCUPANCY REDUCED FROM 5 PEOPLE PER 1,000 SF TO ACTUAL OCCUPANTS PER TENANT.











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HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539



BY GEN CONTRACTOR

DESIGN-BUILD

BY GEN CONTRACTOR

BY GEN CONTRACTOR

BY GEN CONTRACTOR

PLUMBING

MECHANICAL

ELECTRICAL DESIGN-BUILD

FIRE PROTECTION DESIGN-BUILD

CONTRACTOR FORGE CONSTRUCTION

TENANT IMPROVEMENTS FOR:

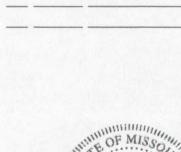
H&R BLOCK DEPOT

## 1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Date: 04.26.24 Reviewed By: Revisions: No. Date Description ----------\_\_\_\_\_

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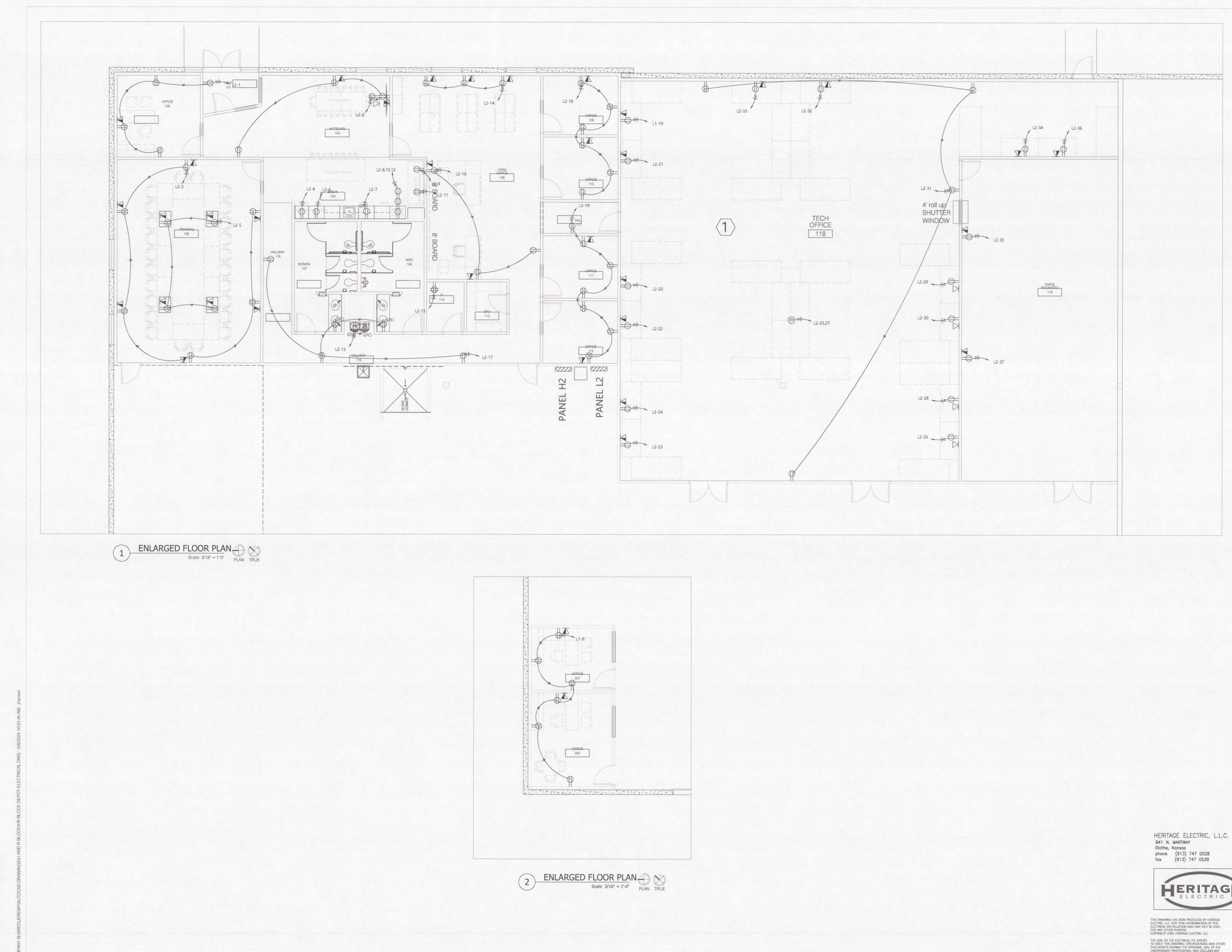
Issued For: Permit Submittal Drawn By: F. Crubaugh

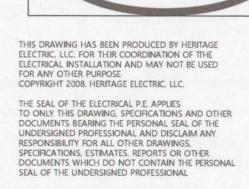




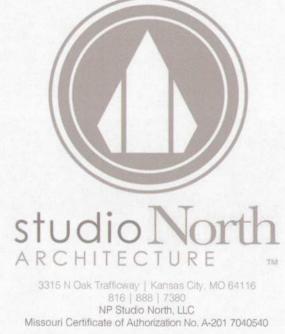












PLUMBING	DESIGN-BUILD BY GEN CONTRACTOR
MECHANICAL	DESIGN-BUILD BY GEN CONTRACTOR
ELECTRICAL	DESIGN-BUILD BY GEN CONTRACTOR
FIRE PROTECTION	DESIGN-BUILD BY GEN CONTRACTOR
CONTRACTOR	FORGE CONSTRUCTION

TENANT IMPROVEMENTS FOR:



## 1220 NW Main St Lee's Summit, MO 64086

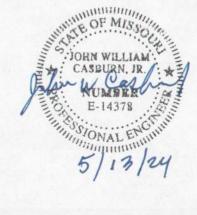
Project No. 2024-032 Date: 04.26.24 Reviewed By: Revisions:

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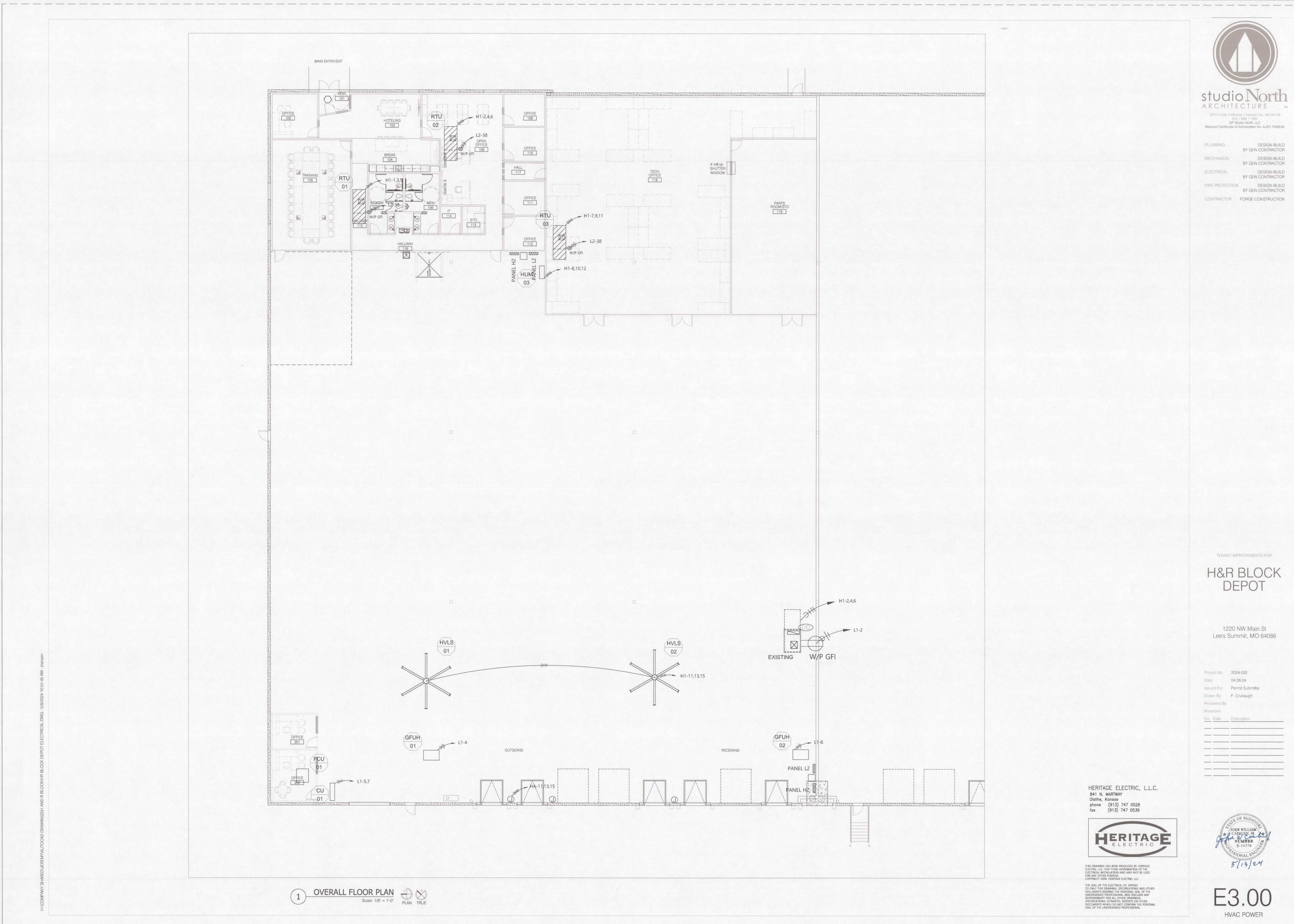
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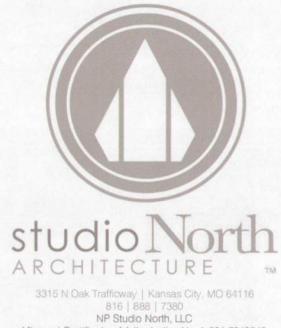
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Missouri Certificate of Authorization No. A-201 7040540

PLUMBING

MECHANICAL

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TENANT IMPROVEMENTS FOR:



## 1220 NW Main St Lee's Summit, MO 64086

## Project No. 2024-032 Date: 04.26.24 Reviewed By: Revisions:

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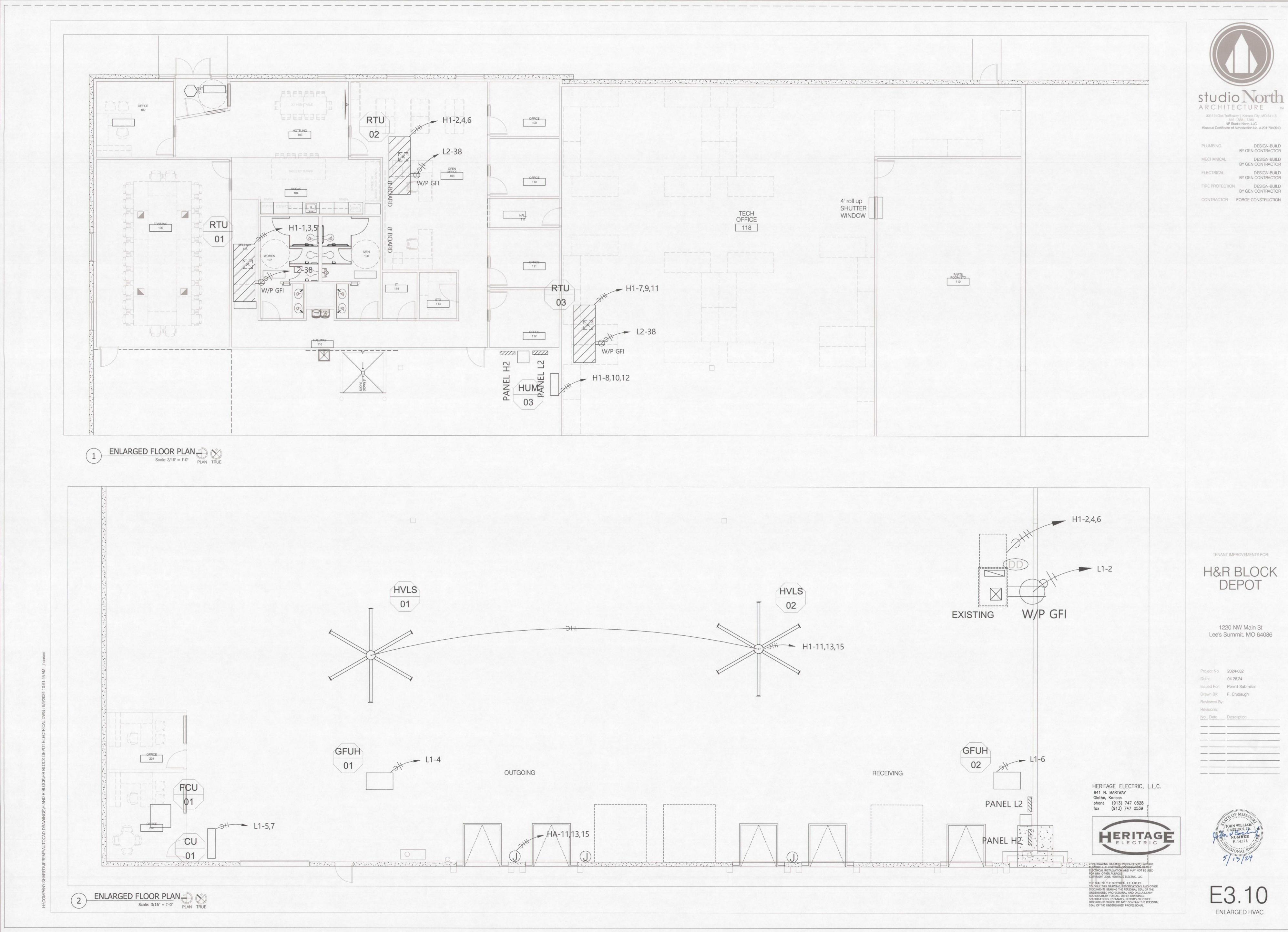
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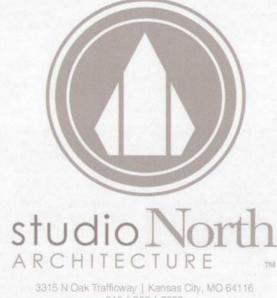
Issued For: Permit Submittal Drawn By: F. Crubaugh

No. Date Description









816 | 888 | 7380 NP Studio North, LLC Missouri Certificate of Authorization No. A-201 7040540

PLUMBING

MECHANICAL

DESIGN-BUILD BY GEN CONTRACTOR DESIGN-BUILD BY GEN CONTRACTOR ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION

TENANT IMPROVEMENTS FOR:

H&R BLOCK DEPOT

## 1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Date: 04.26.24 Reviewed By: Revisions:

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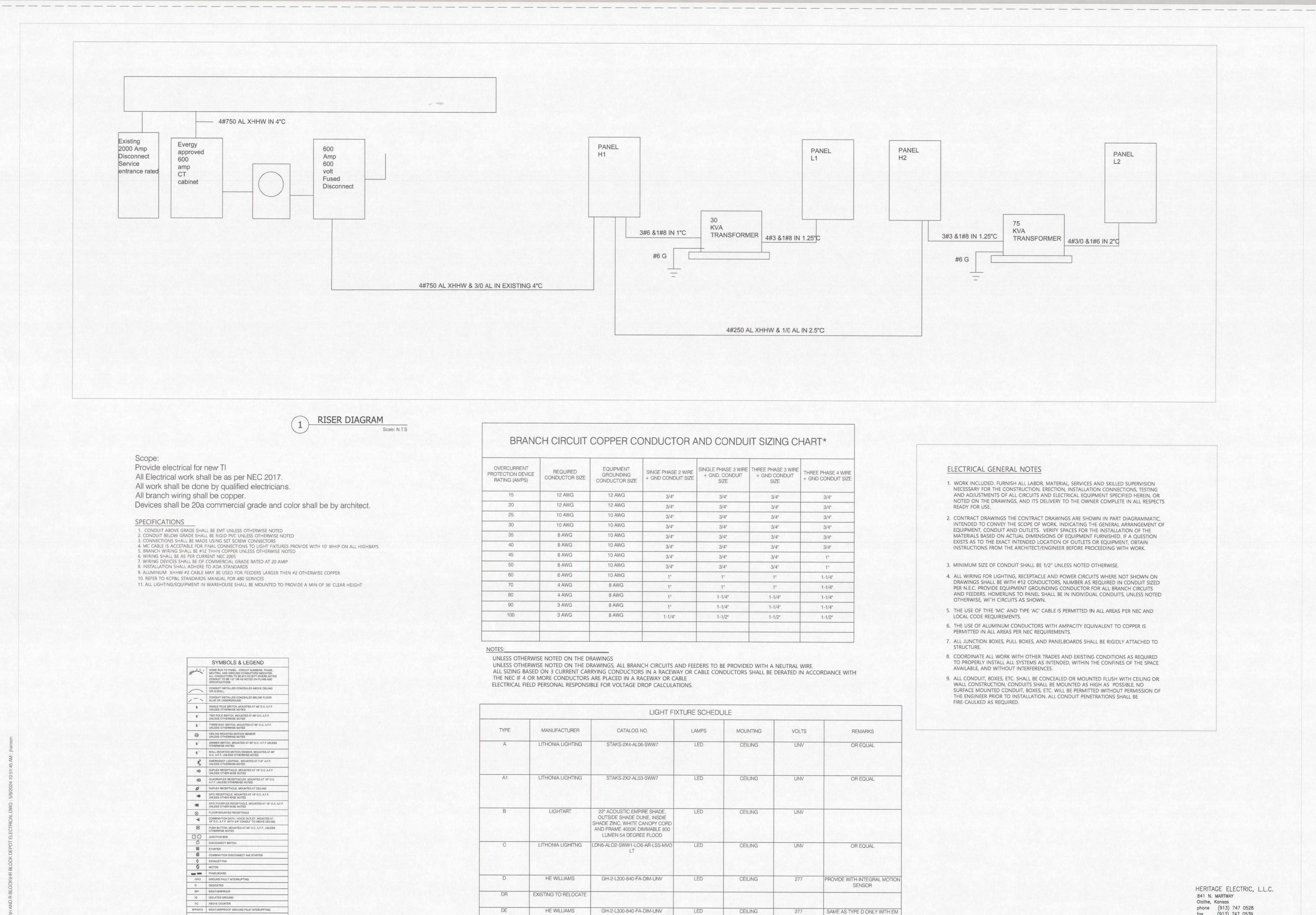
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WP/GFCI WEATHERPROOF GROUND FAULT INTERUPPTING ALL SYMBOLS NOT NECESSARILY REFERENCED ON PLAN

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

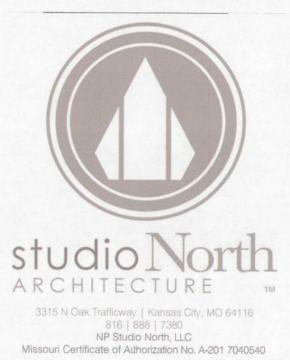
		LIGHT FIX	TURE SCHEDU	JLE		
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	LITHONIA LIGHTING	STAKS-2X4-AL06-SWW7	LED	CEILING	UNV	OR EQUAL
A1	LITHONIA LIGHTING	STAKS-2X2-AL03-SWW7	LED	CEILING	UNV	OR EQUAL
В	LIGHTART	22" ACOUSTIC EMPIRE SHADE, OUTSIDE SHADE DUNE, INSDIE SHADE ZINC, WHITE CANOPY CORD AND FRAME 4000K DIMMABLE 800 LUMEN 54 DEGREE FLOOD	LED	CEILING	UNV	
С	LITHONIA LIGHITNG	LDN6-ALO2-SWW1-LO6-AR-LSS-MVO LT	LED	CEILING	UNV	OR EQUAL
D	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	PROVIDE WITH INTEGRAL SENSOR
DR	EXISTING TO RELOCATE					
DE	HE WILLIAMS	GH-2-L300-840-FA-DIM-UNV	LED	CEILING	277	SAME AS TYPE D ONLY BALLAST
DER	EXISTING TO RELOCATE					
EM	COMPASS	CUS2Q	LED	WALL	UNV	OR EQUAL
X1	Compass	CCR	LED	WALL	UNV	OR EQUAL
EX	COMPASS	CCR	LED	WALL	UNV	EXISTING
ERH	COMPASS	CUWZ-PC	LED	WALL	UNV	EXISITNG

	MARTWAY	ECTRIC,	L.L.
Olathe,	Kansas		
phone	(913)	747 0528 747 0539	
fax	(913) /	4/ 0539	



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## MECHANICAL

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DESIGN-BUILD BY GEN CONTRACTOR DESIGN-BUILD BY GEN CONTRACTOR DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION

TENANT IMPROVEMENTS FOR:



## 1220 NW Main St Lee's Summit, MO 64086

Reviewed By: Revisions:

No. Date Description \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Project No. 2024-032 04.26.24 Issued For: Permit Submittal Drawn By: F. Crubaugh

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4.00

RISER

PANEL			277						NEW
ССТ	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA
1	WAREHOUSE LIGHTS	2475	20/1	2#12,1#12G	A	2.#12-1.#12G	1	25/3	4432
3	WAREHOUSE LIGHTS	2475	20/1	2#12-1#12G	В	2-#12-1.#12G			4432
5	OVERHEAD DOOR	200	20/3	4#10-1-#12G	C	2-#12-1#12G	8		4432
7		200			A			200/3	41665
9		200	3		В				41890
11	HVLS FAN	1000	20/3	4#10-1#12G	C				39595
13		1000			A			30/3	5400
15		1000			В				5400
17	WAREHOUSE LIGHTS	2250			C				5400
19	OVERHEAD DOOR POWER	1500	20/3		A			30/3	5400
21		1500			В				5400
23		1500			C				5400
25	INSTAPAK MACHINE	3400	20/3		A				
27		3400			В			1000	
29		3400			C				
31					A				
33					B				
35					C				
37					A	3-#8,1#10G		100/3	6640
39					B			-	4060
41					C			-	4640
NOTES:					LOAD SU	MMARY	CONN	NEC	DEM
	1 NEMA 1 ENCLOSURE				1-LIGHTIN	G	7200	1.25	5
1	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	15340	NEC	12
	3				3-KITCHE		0	0.65	
					4HVAC		136446		136
					5-NON-CO	NT	50700	1	50
					LARGEST	MOTOR	0	0.25	
					TOTAL V		209686		208
					TOTALA		252.2		2

PANE	L: H2 200	DA MLO	277	7/ 480 V, 3PH,	4W.+GRND.				NEW P
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA
1	RTU 1	3601	20/3	3#12,1-#12G	A	3#12,1#12G		20/3	3601
3		3601			B				3601
5		3601			C			182. 3.	3601
7	RTU 3	6648	25/3	3#10,1-#12G	A	3#10, 1#12G		30/3	6925
9		6648		. Constant South	B				6925
11		6648			C				6925
13	OFFICE LIGHTING	2670	20/1	2#12,1#12G	A		Sold Break		
15	OFFICE LIGHTING	2695	20/1	2#12,1-#12G	В				
17					C				
19					A				
21					B				
23					C				
25					A			(	
27					B				
29					C		A Second Second		
31					A				
33					B				
35					C				
37					A	3#3,1#8G		100/3	18220
39					В			-	18420
41			-		С			-	18820
NOTES:					LOAD SU	MMARY	CONN	NEC	DEM
	1 NEMA 1 ENCLOSURE				1-LIGHTIN		5365	1.25	6706.2
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT		55460	NEC	32730
	3				3-KITCHE		0	0.65	
					4HVAC		62325	1	6232
					5-NON-CO	INT	0	1	(
					LARGEST		0	0.25	-
					TOTALV		123150		101761.2
					TOTALA		148.1		122.4
					TIGINEN		140.1		166.

1

# COMcheck Software Version 4.1.1.0 Interior Lighting Compliance Certificate

Energy Code:	90.1 (2016) Standard				
Project Title:	H&R Block Depot				
Project Type:	New Construction				
Construction Site:	Owner/Agent:	Designer/C	ontractor:		
1220 NW Main St		Jeremy H			
Lee's Summit, MO 64086		Heritage 841 N. M	Electric artway Driv	e	
		Olathe, K			
		913-747-			
		Jhansen@	heritage-el	ectric.cor	n
Allowed Interior Lighting Pow	IAP.				
Anowed interior Lighting Fow					
	A	B	C		D
Area	a Category	Floor Area (ft2)	Allowed Watts / ft		(B X C)
1-Office		9440	0.79		7458
2-Warehouse		24544	0.48		11781
		To	al Allowed W	atts =	19239
Proposed Interior Lighting Po	wer				
	A	В	С	D	E
Fixture ID : Description	n / Lamp / Wattage Per Lamp / Ballast	Lamps/	# of	Fixture	(C X D)
			ET la character a	Watt.	
		Fixture	Fixtures		
		Fixture	Fixtures		
1-Office LED 1: A: 2X4: Other:		Fixture 1	90	55	4950
<u>1-Office</u> LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other:		1	90 8	55 45	360
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other:		1 1 1	90 8 2	55 45 50	360 100
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other:		1	90 8	55 45	360
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse		1 1 1 1	90 8 2 11	55 45 50 25	360 100 275
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other:		1 1 1	90 8 2 11 32	55 45 50 25 225	360 100 275 7200
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other:		1 1 1 1	90 8 2 11	55 45 50 25 225	360 100 275 7200
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse	sign 33% better than code	1 1 1 1	90 8 2 11 32	55 45 50 25 225	360 100 275 7200
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other:		1 1 1 1	90 8 2 11 32	55 45 50 25 225	3 1 2 72
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other: Interior Lighting PASSES: De Interior Lighting Compliance	Statement	1 1 1 1 1	90 8 2 11 32 Total Propos	55 45 50 25 225 ed Watts =	360 100 275 7200 = 12885
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other: Interior Lighting PASSES: De Interior Lighting Compliance Compliance Statement: The propo	Statement osed interior lighting design represented in ns submitted with this permit application.	1 1 1 1 1 1 this document is co	90 8 2 11 32 Total Propos	55 45 50 25 225 ed Watts =	360 100 275 7200 12885
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other: Interior Lighting PASSES: De Interior Lighting Compliance Compliance Statement: The propose specifications, and other calculation designed to meet the 90.1 (2016)	Statement osed interior lighting design represented in ns submitted with this permit application. Standard requirements in COM <i>check</i> Versi	1 1 1 1 1 1 this document is co	90 8 2 11 32 Total Propos	55 45 50 25 225 ed Watts =	360 100 275 7200 12885
1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other: Interior Lighting PASSES: De Interior Lighting Compliance Compliance Statement: The propo	Statement osed interior lighting design represented in ns submitted with this permit application. Standard requirements in COM <i>check</i> Versi	1 1 1 1 1 1 this document is co	90 8 2 11 32 Total Propos	55 45 50 25 225 ed Watts =	360 100 275 7200 12885
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1-Office LED 1: A: 2X4: Other: LED 2: A1: 2X2: Other: LED 3: B: PENDENT: Other: LED 4: C: CAN LIGHT: Other: 2-Warehouse LED 5: D: HIGHBAY: Other: Interior Lighting PASSES: De Interior Lighting Compliance Compliance Statement: The propose specifications, and other calculation designed to meet the 90.1 (2016)	Statement osed interior lighting design represented in ns submitted with this permit application. Standard requirements in COM <i>check</i> Versi	1 1 1 1 1 1 this document is co	90 8 2 11 32 Total Propos	55 45 50 25 225 ed Watts =	360 100 275 7200 12885

Project Title: H&R Block Depot Data filename: Untitled.cck

	SERVES		CCT
	MAU-1 EXISTING		2
			4
			6
	PANELH2	174910 1991	8
1			10
		Second Street	12
	BATTERY CHARGER		14
			16
			18
	BATTERY CHARGER		20
			22
			24
			26
		1.00	28
			30
			32
			34
			36
	TRANSFORMER		38
	TRANSFORMER		40
	TRANSFORMER		42
			a second and
	LOAD BALANCE PER	PHASE	
	PHASE A		72112
	PHASE B		6975
	PHASE C	Contraction of the	67817
1	LOWEST PHASE PLU		
	67817	+ 10%	74598.7
	PHASES ARE BALANC	ED	

ANE	L: L1 100	MB	120	/ 208 V, 3PH,	4W.+GRND					NEW	
т	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	DOCK POWER	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	840	GFCI RECEPTACLE	2
3	DOCK POWER	600	20/1	2-#12,1-#12G	В	2-#12,1-#12G	Sus Sel Vin	20/1	840	GFUH 1	4
5	CU-1	2600	25/3	2-#12,1-#12G	C	2-#12,1-#12G		20/1	840	GFUH 2	6
7		2600	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	1200	OFFICE RECEPS	8
9	WAREHOUSE RECEP	1200	20/1	2-#12,1-#12G	B	2-#12,1-#12G		20/1	220	OFFICE LIGHTS	10
11	WAREHOUSE RECEP	1200	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	-		12
13	WAREHOUSE RECEP	1200	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1			14
15	WAREHOUSE RECEP	1200	20/1	2-#12,1-#12G	B	2-#12,1-#12G		20/1			16
17			20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1			18
19			20/1	2-#12,1-#12G	A			20/1		SPARE	20
21			20/1	2-#12,1-#12G	В			20/1		SPARE	22
23	SPARE		20/1	•	C			20/1		SPARE	24
25	SPARE		20/1		A			20/1		SPARE	26
27	SPACE			-	B				1.5	SPACE	28
29	SPACE				C		the second second second	1000		SPACE	30
31	SPACE			-	A					SPACE	32
33	SPACE				B			124-11-1		SPACE	34
35	SPACE				C					SPACE	36
37	SPACE				A				-	SPACE	38
39	SPACE				В					SPACE	40
41	SPACE				C	-			-	SPACE	42
ES:					LOAD SU	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTIN	G	220	1.25	275	PHASEA	
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	3440	NEC	3440	PHASEB	
	3				3-KITCHE	N	0	0.65	(	PHASEC	
					4-HVAC		6880	1	6880	LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	0	1	(	4060 + 10%	
					LARGEST	MOTOR	0	0.25	(	REBALANCE LOADS	-
					TOTAL V	A	10540		10595	5	
					TOTAL A		29.3		29.4		

	SERVES		CCT
	RTU 2	The second second	2
-			4
1			6
	HUM-1		8
			10
			12
			14
			16
			18
			20
			22
	Carlo Anna Anna		24
			26
			28
			30
			32
			34
			36
	TRANSFORMER		38
	TRANSFORMER		40
	TRANSFORMER		42
	LOAD BALANCE PER P	HASE	
5	PHASE A		41665
)	PHASE B	And the second second	41890
)	PHASE C		39595
;	LOWEST PHASE PLUS	10%	
)	39595	+ 10%	43554.5
	PHASES ARE BALANCI		

31	OFACE			•	A					SPACE	
39	SPACE			-	B				-	SPACE	40
41	SPACE				C				-	SPACE	42
OTES:					LOAD SU	IMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
UTLO.							and the second se				
	1 NEMA 1 ENCLOSURE				1-LIGHTI	A Section of the sect	220			275 PHASEA	
	2 PROVIDE BOLT ON BREAKERS				2-RECEP	TACLES	3440	) NEC	34	140 PHASE B	
	3				3-KITCHE	EN	(	0.65		0 PHASEC	1.
					4-HVAC		6880	) 1	68	80 LOWEST PHASE PLUS 10%	
					5-NON-CO	ONT	(			0 4060 + 10%	
						TMOTOR		0 0.25		0 REBALANCE LOADS	
					TOTAL		1054	100	105		
_					TOTALA	AMPS	29.	3	2	9.4	
ANE	L: L2 20	0 MB	120	208 V, 3PH, 4	W.+GRND.					NEW PANEL	
Т	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	OFFICE RECEP	800	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	800	HOTELING	2
3	TRAINGING ROOM RECEP	1200	20/1	2-#12,1-#12G	B	2-#12,1-#12G		20/1	1600	COFFE MACHINE	4
5	TRAINING ROOM FLOOR BOX	800	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	1600	ICE/WATER	6
7	BREAK ROOM GECI		-	2-#12, 1-#12G		2-#12,1-#12G					
1		800	20/1		A			20/1	1500	MICROWAVE	8
9	REFIGERATOR	1200	20/1	2-#12, 1-#12G	B	2-#12,1-#12G		20/1	1500	MICROWAVE	10
11	REFIGERATOR	1200	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	1500	MICROWAVE	12
13	DRINKING FOUNTAIN	800	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	600	OPEN OFFICE RECEPS	14
15	IT ROOM QUAD	800	20/1	2-#12, 1-#12G	В	2-#12,1-#12G		20/1	600	OPEN OFFICE RECEPS	16
17	HALLWAY RECEP	1000	20/1	2-#12, 1-#12G		2-#12,1-#12G		20/1	1200	OFFICE RECEPS	
312		14050/12			C	- Water State Billion			-		18
19	TECH OFFICE	1920	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	1400	OFFICE RECEPS	20
21	TECH OFFICE	1920	20/1	2-#12, 1-#12G	B	2-#12,1-#12G		20/1	1920	TECH OFFICE	22
23	TECH OFFICE	1920	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	1920	TECH OFFICE	24
25	TECH OFFICE	1920	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	1920	TECH OFFICE	26
27	TECH OFFICE	1920	20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1	5 (PS2)	TECH OFFICE	28
29	TECH OFFICE	1920	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	1920	TECH OFFICE	30
31	TECH OFFICE	1920	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	1920	TECH OFFICE	32
33	TECH OFFICE	1920	20/1	2-#12, 1-#12G	B	2-#12,1-#12G		20/1	1920	TECH OFFICE	34
35	PARTS OFFICE	1920	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	1920	TECH OFFICE	36
37	PARTS OFFICE	1920	20/1	2-#12, 1-#12G	A			20/1		SPARE	38
39	SPARE		20/1		В			20/1		SPARE	40
41	SPARE		20/1		C			20/1		SPARE	
			and a set of the set o								42
43	SPARE		20/1		A			20/1		SPARE	44
45	SPARE		20/1		В			20/1		SPARE	46
47	SPARE	S. S. C. S.	20/1		C			20/1		SPARE	48
49	SPACE				A					SPACE	50
51	SPACE				В					SPACE	52
53	SPACE		-		C					SPACE	54
55	SPACE				A					SPACE	56
57	SPACE				B			1		SPACE	58
59	SPACE				C			1000		SPACE	60
61	SPACE				A					SPACE	62
			-								V
ES:					LOAD SUN	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING	G	0	1.25	(	PHASE A	18
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT/		55460	NEC		PHASE B	18
	3				3-KITCHEN	and the second se	0	0.65	-	PHASEC	18
						A		0.05			10
					4-HVAC		0	1	-	LOWEST PHASE PLUS 10%	
					5-NON-CON		0	1	(	18220 + 10%	20
					LARGEST	MOTOR	0	0.25	(	PHASES ARE BALANCED	
									-		
					TOTAL VA		55460		32730		



D Allowed Watts (B X C) 7458 11781 = 19239 D E xture (CXD) Vatt.

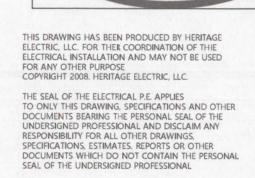
 
 55
 4950

 45
 360

 50
 100

 25
 275
 225 7200 Watts = 12885 

Report date: 05/09/24 Page 1 of 5





HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539



3315 N Oak Trafficway | Kansas City, MO 64116 816 | 888 | 7380 NP Studio North, LLC Missouri Certificate of Auhorization No. A-201 7040540

PLUMBING DESIGN-BUILD BY GEN CONTRACTOR MECHANICAL DESIGN-BUILD BY GEN CONTRACTOR ELECTRICAL DESIGN-BUILD BY GEN CONTRACTOR FIRE PROTECTION DESIGN-BUILD BY GEN CONTRACTOR CONTRACTOR FORGE CONSTRUCTION

TENANT IMPROVEMENTS FOR:



## 1220 NW Main St Lee's Summit, MO 64086

Project No. 2024-032 Date: 04.26.24 Reviewed By: Revisions: No. Date Description -----

Issued For: Permit Submittal Drawn By: F. Crubaugh

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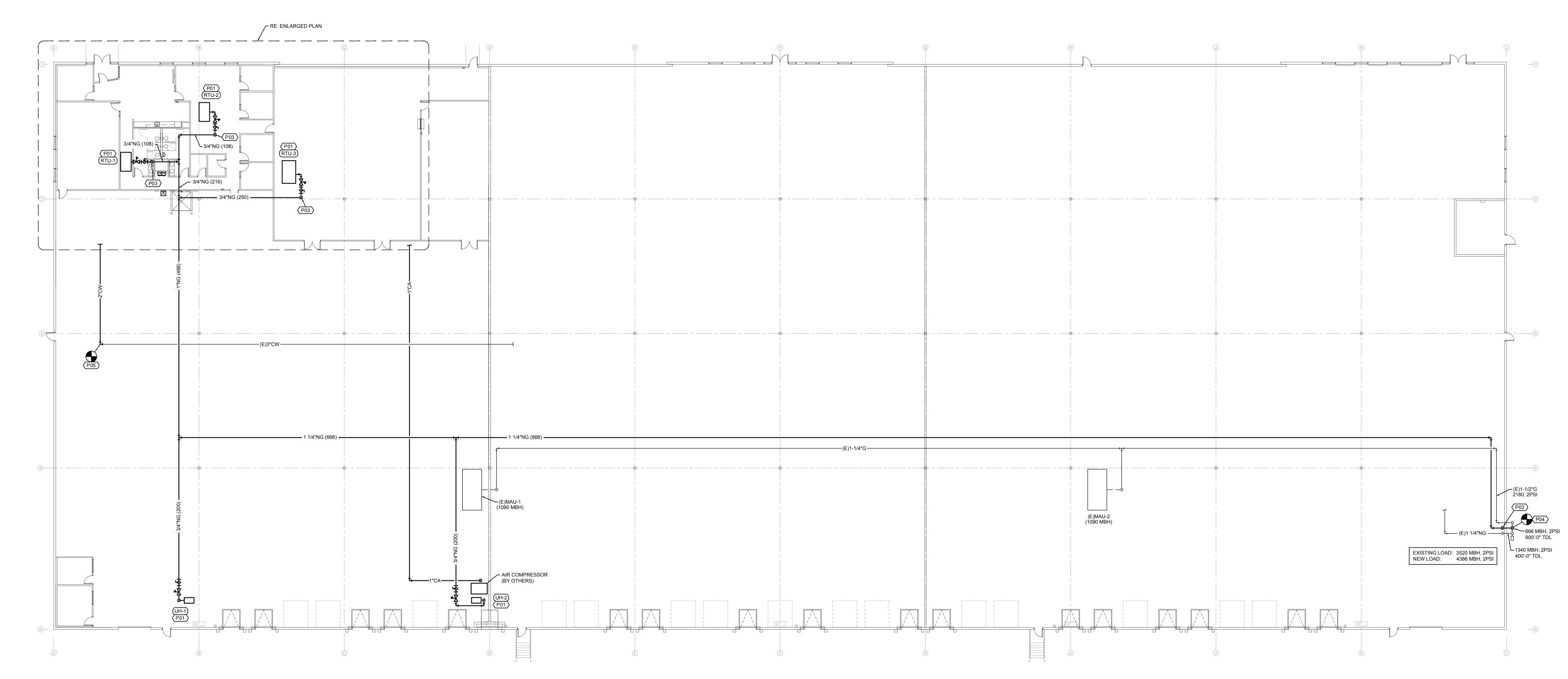
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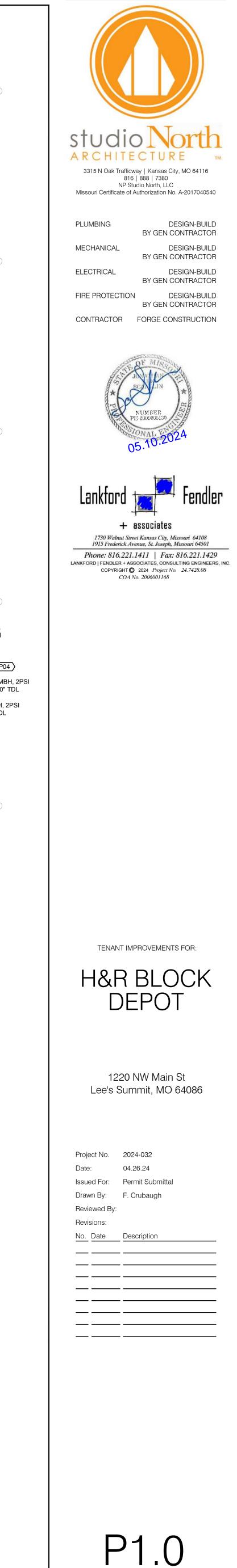




## N FLOOR PLAN-PLUMBING SCALE:1/16"=1'-0"

## FLOOR PLAN NOTES

- 1. CONNECT TO MECHANICAL EQUIPMENT WITH GAS COCK, DIRT LEG, AND UNION. PROVIDE PRESSURE REGULATOR WITHIN 10'-0" OF UNIT CONNECTION. INLET: 2PSI, OUTLET: 7" WC.
- 2. ROUTE GAS PIPING UP TIGHT TO INTERIOR AND SUSPENDED ACROSS CEILING SPACE AS INDICATED.
- 3. ROUTE GAS PIPING UP THROUGH ROOF, RE: DETAIL.
- 4. CONNECT TO EXISTING GAS PIPING AS CLOSE TO METER AS POSSIBLE.
- 5. CONNECT TO EXISTING COLD WATER STUBOUT. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING.



FLOOR PLAN- PLUMBING



ENLARGED FLOOR PLAN-PLUMBING

## 220 100 PLUMBING SPECIFICATIONS

## 1.0 SCOPE: A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation and to provide complete working systems of the Plumbing Systems, including hot and cold water, waste and vent, storm drainage, fixtures, equipment and other items described in

- these specifications, as illustrated in the accompanying drawings or as directed by the Architect/Engineer. B. Extend piping systems as indicated on contract documents or to point of connection as follows:
- 1. Points of connection within the existing building.
- 2.0 PIPING, FITTINGS AND VALVES:
- A. Provide hot and cold water supply to each and every fixture, piece of equipment and to systems where makeup water is required. B. Provide service valves for each item of equipment, at branch piping, fixture groups, individual fixtures and elsewhere as indicated or required. Provide balance valves, strainers, check valves and other valves as
- indicated or required by the application. C. Provide a union or flanged connection between each item of equipment and its service valve. Copper to ferrous pipe connections shall have isolation coupling, flange or union.

D. Domestic water, interior, above ground -

- 1. Pipe, copper tube: 2-1/2" and Smaller Type "L" hard temper copper, wrought or cast copper fittings, Lead free 95/5 or Eagle Hard Silvabrite or "CB" solder joints, or roll grooved mechanical joints or pressure seal joint fittings with EPDM O-ring seals. 2. Provide valves where indicated on the drawings, where required by code, or required for service.
- a. 1/4 turn Service -
- 1) 1/2" thru 2" Nibco 585-66-LF bronze lead free, 600 PSIG, full port, stainless steel ball and stem. 2) Provide isolation valves where indicated on drawing, including at branches, terminations, each piece of equipment and elsewhere as required by code.
- b. Check, Strainers and Miscellaneous -1) Check - 1/2" thru 2" - Nibco 413-Y-LF bronze lead free, 200 PSIG, PTFE seats, Y-pattern check valve.
- 2) Check 1/2" thru 2" Nibco 480-Y-LF lead free, 200 PSIG, PTFE seats, spring loaded, resilient disc, spring loaded inline non-slam check valve, in pump discharge.
- 3. Securely anchor and support piping, valves and fittings, with adequate provisions for expansion and contraction. Grade lines, free of traps, to low point at cut-off and drain valve.
- 4. Hot and cold supply lines to have manufactured pre-charged piston type water hammer arresters sized and installed in accordance with PDI-WH 201. Install at each solenoid actuated quick closing valve location including but not limited to dishwashers, clothes washers, ice makers, electronic faucets and similar items. Sioux Chief, JR Smith or equal. Provide access panel where required.
- E. Natural Gas --

## 1. Pipe above ground:

- a. 2" and smaller Schedule 40 black steel piping with threaded fittings.
- b. 4" and smaller Schedule 40 black steel pipe with pressure seal steel fittings. Viega Megapress XL, Apollo PowerPress or equal.
- 2. Valves & Connectors: a. Shutoff Service -
- 1) 1/2" thru 1" Nibco GB-1A, brass body, chrome plated brass ball, PTFE seats, screwed ends, 5 PSIG per CGA, lever handle.
- 2) 1/2" thru 2" Nordstrom 142, iron lubricated tapered plug valve, 200 PSIG, threaded ends. b. Regulator, 3/4" thru 1-1/2" - Fisher type S, spring loaded diaphragm, 1.5" WC to 2.5 PSIG discharged pressure, threaded, vented to atmosphere.
- c. Flex Connectors, Metraflex GASCT 300 series stainless steel braided hose with carbon steel threaded ends 3. Natural gas piping in return air plenum, where permitted shall be either installed in vented fabricated
- enclosure; sleeved and vented; or welded or one piece.

## 4. Paint exterior natural gas piping with corrosion inhibiting paint, color to be selected. F. Sanitary sewer, vent, interior --

- 1. Pipe Standard weight cast iron hubless with no-hub shielded mechanical joints; solid wall schedule 40 PVC, ABS with solvent cement joints; vents may be galvanized malleable iron. 2. Plastic piping shall not be allowed in return air plenums.
- 3. Floor or equipment drains shall be provided at all locations where equipment is indirect wasted. Floor drains shall be provided outside all ADA showers for roll-in applications or where there is no threshold.
- 4. All gravity drainage shall be graded per code but not less than 1/8" per foot unless noted otherwise, except that piping sizes up thru 2-1/2" shall be sloped at 1/4" per foot. Piping sizes up thru 4" to be sloped at 1/4" per foot where possible and where required by local codes.
- 5. Vents shall be sloped upward in direction of flow. G. Sanitary sewer, vent, below grade --
- 1. Pipe Standard weight cast iron hubless with no-hub heavy duty mechanical joint fittings; solid wall schedule 40 PVC, ABS with solvent cement joints. 2. All gravity drainage shall be graded per code but not less than 1/8" per foot unless noted otherwise, except
- that piping sizes up thru 2-1/2" shall be sloped at 1/4" per foot. Piping sizes up thru 4" to be sloped at 1/4" per foot where possible and where required by local codes.
- 3. Vents below grade shall be 2" minimum size and shall be sloped up in direction of flow.
- H. Compressed Air -
- 1. Pipe Copper tube -Type "L" hard temper, wrought or cast copper fittings, Lead free 95/5 or Eagle Hard Silvabrite or "CB" solder 2. Valves, service - 1/2" - 2" Nibco S-585-70, 1/4 turn, 600 PSIG, full port, stainless steel ball and stem.
- 3. Outlets Terminate with male pipe with air valve rated for compressed air, chrome angle stop, compression fitting, equipment connection in accordance with equipment vendor requirements. 4. All pipe material, joints and outlets to be in accordance with dental vendor drawings and details.
- 3.0 CLEANOUTS, TEST TEES, TRAPS AND TRAP SEALS:
- A. Provide cleanout at the base of each stack or riser, at ends of runs greater than 100', each 135° aggregate change of direction in horizontal piping, where indicated on the drawings or as required by code. Cleanouts shall be the same size as pipe up to 4" diameter, 4" cleanouts for larger pipe unless otherwise noted.
- A. All traps shall be deep seal type with liquid seal not less than specified by code. B. Where trap primers are not specified provide all floor and hub drains with trap seal with EPDM or silicone
- diaphragm, conforming to requirements of ASSE 1072 or 1017.2. Provent Proset Series SG22 or TG22, Sioux Chief series 835, Rectorseal SS series or acceptable equal. 4.0 SLEEVES AND SEALS, FLASHINGS, ROOF PIPE SUPPORTS AND UV PROTECTION:
- A. Flash all pipes and vents extending through roof. Flashing details shall be in accordance with roof
- manufacturer's requirements. B. Continuous roof piping penetrations shall be made weather tight, conform to roof manufacturer warranty.
- C. Roof pipe supports shall be prefabricated with UV resistant rubber base, unistrut channel and pipe clamp,
- length and height for consistent pipe elevation to suit application. Mi-Fab C6 series or acceptable equal.
- D. Plastic piping without UV inhibiters which is exposed to UV radiation from sunlight shall be protected by coating with a UV resistant paint.

Cross-Connection Control and Hydraulic Research.

5.0 CROSS- CONNECTIONS AND INTERCONNECTIONS: A. No plumbing device or piping shall be installed which will provide cross-connection or interconnection between a distributing supply or waste so as to make possible the backflow or back-siphonage of polluted water into the potable water supply system. Where the possibility of back-siphonage exists, water supply to the fixture shall be introduced through a suitable backflow preventer device suitable for the hazard protected. Installed backflow preventers must be approved through the University of Southern California Foundation for

1. They may be an air gap, anti-syphon valve, atmospheric vacuum breaker, pressure vacuum breaker, double check, reduced pressure backflow preventer or as otherwise required by the authority having iurisdiction.

- 6.0 PLUMBING EQUIPMENT: A. Water heaters, pumps, expansion tanks and other equipment shall be as scheduled or by acceptable equal by one of the following:
- Water Heaters and Accessories: Water Heaters: A.O. Smith, State, Rheem, Bradford White Expansion Tanks: Watts, Amtrol, Armstrong, Elbi, Taco, Wessels.

## B. Water Heater Installation

- 1. Pipe water heater drains and/or pan drains to indirect waste per code and as noted or detailed. Water heater P&T relief valves shall be piped independently, indirectly wasted 6" above receptor per code and as noted or detailed.
- 2. Install vacuum relief valve on each bottom fed storage water heater, installed above the top of the water heater on cold water inlet piping.
- 3. Mount water heaters on concrete floor pads, suspended from structure on steel rods, on steel floor stands or wall bracket steel frames as indicated on drawings.
- 4. Suspended heaters up to 50 gallons may be mounted utilizing prefabricated steel support platform, HoldRite SWHP series or acceptable equal.
- 5. Where water heaters are mounted overhead, on wood floor or other location requiring containment, mount water heaters in drain pan with 1" minimum drain, HoldRite QP series, acceptable equal or field fabricated equivalent
- 6. Water piping connections to water heaters shall be metallic, no plastic piping is permitted within 18" of a water heater connection. Stainless steel flexible connectors with union ends may be used, HoldRite or acceptable equal. Provide 18" minimum flexible corrugated copper or braided stainless steel connector hoses with compression ends for water heaters with 3/4" water connections.

## 7.0 INSULATION:

A. Pipe insulation shall conform to the International Energy Conservation Code. B. Insulate all cold water, hot water piping, Owens Corning or acceptable equal

1. Cold water piping insulation: 1" fiber glass sectional pipe covering with universal vapor barrier jacket. 2. Hot Water piping insulation: 1" (pipe sizes up thru 1-1/4") 1-1/2" (pipe sizes 1-1/2" and above) fiber glass

sectional pipe covering with universal all service jacket. C. At Contractor's option, Armacell AP Armaflex unicellular insulation or acceptable equal with 25/50 flame and smoke rating with equal thermal performance may be substituted for fiberglass products.

D. Seal all joints on cold water insulation to maintain vapor barrier. E. Insulation shall run continuously thru hangers and supports without interruption.

F. Refer to plumbing fixture schedule for protective insulation of fixture drains and water piping for compliance

with ADA requirements for People with Disabilities. 1. Pipe coverings may be omitted where protection from injury (such as shrouds or casework) is provided by other trades.

2. Provide comparable protection for accessory items such as disposers where items are exposed to contact beneath ADA designated fixtures.

## 8.0 PIPE SUPPORTS AND ROUTING:

B. Routing

A. Hangers and Supports 1. Piping shall be supported in accordance with industry standards including support methods, sizes and spacing. All supports and installation shall conform to MSS SP58 and 69 and Fed Spec WW-H-171E and

A-A-1192A. 2. Pipe Slopes: Install hangers and supports to provide indicated or required pipe slopes to provide for drainage and venting

3. Each piping system shall be independently supported with no piping bearing on another and installed such that no weight of piping is borne by the equipment 4. Space hangers and supports within maximum piping span length indicated in MSS SP-58. Install building

attachments at required locations for proper piping support. 5. Hangers shall be designed to allow for expansion and contraction of pipe lines and shall be of adequate size to permit covering when required. Provide protective saddles and blocking where supporting insulated

piping to prevent crushing insulation. 1. Piping shall be routed as shown on drawings, parallel to building lines unless otherwise shown,

## coordinated with building structure and other trades. Adjust pipe routing and drop locations with necessary pipe offsets or changes in elevation to accommodate beams and other obstructions. 9.0 EQUIPMENT AND PIPE LABELS:

A. Equipment labels shall be provided for all plumbing equipment and shall be self-adhesive engraved plastic, blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number. B. Pipe labels for domestic water, waste, and vent piping shall be preprinted, color-coded, with 1-1/2" lettering indicating service, and showing flow direction, locate pipe labels where piping is exposed or above accessible

ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and locations as follows:

1. Near each valve and control device. 2. Near each branch connection, excluding short takeoffs for fixtures and terminal units. Where flow pattern is not obvious, mark each pipe at branch.

3. Near major equipment items and other points of origination and termination. 4. Spaced at maximum intervals of 50 feet along each run. Reduced intervals to 25 feet in areas of congested

piping and equipment. 5. On piping above removable acoustical ceilings, omit intermediately spaced labels.

## 10.0 MISCELLANEOUS

A. Indirect wastes shall discharge full size thru an air gap to a floor, equipment drain, sanitary floor sink or hub drain. The floor or equipment drain grate shall be fitted with a funnel, the sanitary floor sink shall have a partial grate or the grate shall be omitted. Drains shall be located so they are accessible and not a tripping hazard. B. Provide escutcheons at all penetrations of exposed walls and ceilings. Escutcheons shall be chrome plated brass in occupied areas, prime paint finish for unoccupied areas unless otherwise noted. Escutcheons for exterior or moist areas shall be brass.

11.0 PROTECTION OF WORK A. Protection

1. Protect and cover piping and fixture waste and water openings to prevent entry of dirt and debris.

2. Cover and protect fixtures and plumbing equipment to prevent damage.

## 12.0 TEST, ADJUSTMENTS AND CLEANING: A. Soil, waste and vent piping testing:

1. Initial Piping Water Test: Fill with water to the top of the highest point of the system extending through roof.

Systems may be tested in whole or part. The system shall remain leak free under test for a minimum period of Fifteen (15) minutes

## a. Gravity Drain Test: Either 10' water column or at a pressure not less than 10% above that the piping will be subjected to during nominal operation

b. Where applicable, isolate new portions of the system(s) piping with test tee and Oatey Clean Seal inflatable plug prior to testing. 2. Final Piping Test: The completed system(s) shall be visually inspected to determine compliance with all

codes and standards. Where required by the building official, the completed system shall be smoke tested with all traps water filled and system pressured to 1" WC for a minimum period of fifteen (15) minutes. B. Water, gas, and compressed air line testing:

## 1. Water piping shall be purged and tested with compressed air or water at 50 PSIG above the operating

pressure but not to exceed the pressure rating of piping system materials for a period of 2 hours with no measurable pressure drop. 2. Natural gas lines shall be inspected and blown out with dry compressed air or nitrogen to purge of debris

and tested at 1-1/2 times the operating pressure or a minimum of 25 PSIG pressure with no measurable pressure drop. All test procedures including duration of test shall be in accordance with NFPA 54 and the International Fuel Gas Code

3. Compressed air lines shall be blown out with dry compressed air or nitrogen to purge of debris and tested at 1-1/2 times the operating pressure or a minimum of 150 PSIG air pressure for a period of 2 hours with

no measurable pressure drop. 4. Where applicable, isolate new portions of pressure piping from existing piping with valves prior to testing. C. After successful testing, sterilize water system with an approved solution in accordance with local health

Contractor to submit all test data and other documentation for record.

## 13.0 FIXTURE BRANCH PIPING:

officials

A. Fixture branch and connection sizes shall be as shown in the plumbing fixture schedule on the drawings and not less than required by code.

B. Minimum waste or vent size below slab on grade shall be 2".

14.0 PLUMBING FIXTURES: A. Refer to plumbing fixture schedule for plumbing fixtures and accessories. Include all fittings and accessories

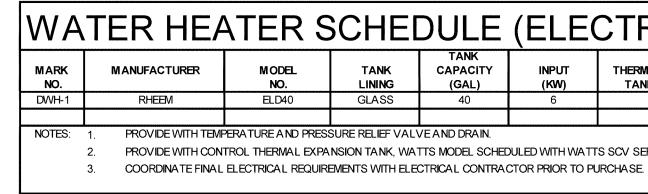
provide flexible insulation wrap on braided water supplies in lieu of specified molded vinyl wrap.

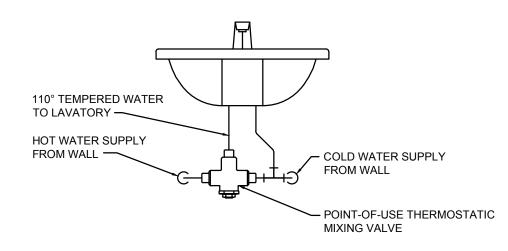
as required for a complete working system.

B. Where required for ADA compliance, provide lavatory and sink offset drain and tailpiece assembly. C. At contractor option, flexible stainless steel braided hose, 125 PSIG rated, with non-toxic liner and compression fittings may be used in lieu of chrome plated brass riser tube. Where ADA complinace is required,

END OF SECTION

MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZ				
ARK NO.	FIATORETTPE	WANUFACTURER	MODEL NO.	DESCRIPTION	сw нv		WASTE	VENT	
WC-1	WATER CLOSET (ADA)	AMERICAN-STANDARD	3043.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT. SLOAN "G2 OPTIMA PLUS" 8111-1.6-OR (1.6 GPF) BATTERY OPERATED ELECTRONIC DIAPHRAGM FLUSH VALVE WITH WANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: BEMIS 1055SSC WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.		-	4"	2"	
WC-2	WATER CLOSET	AMERICAN-STANDARD	2234.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGA TED BOWL, WITH 1-1/2" TOP SPUD. 15" RIM HEIGHT. SLOAN "G2 OPTIMA PLUS" 8111-1.6-OR (1.6 GPF) BATTERY OPERATED ELECTRONIC DIAPHRAGM FLUSH VALVE WITH MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: BEMIS 1055SSC WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS.	1"	-	4"	2"	
U-1	URINAL (ADA)	AMERICAN-STANDARD	6590.001 "WA SHBROOK"	WHITE VITREOUS CHINA, WALL-HUNG, HIGH EFFICIENCY WASHOUT FLUSH ACTION, INTEGRAL FLUSHING RIM, 3/4" TOP SPUD, 2" OUTLET. SLOAN "OPTIMA PLUS" G2 8186-1.0 (1.0 GPF) BATTERY OPERATED ELECTRONIC FLUSH VALVE WITH MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: J. R. SMITH URINAL SUPPORT. NOTE: MOUNT FXTURE RIM 17" ABOVE FINISHED FLOOR.	3/4"	-	2"	1-1/2'	
L-1	LAVATORY (ADA)	D'VONTZ	DV1813RTUWH	18" x 13" RECTANGULAR VITREOUS CHINA, WITH FRONT OVERFLOW AND UNDER COUNTER MOUNT. ZURN Z6915-XL BATTERY POWERED, DECK MOUNTED, FAUCET WITH 4" CENTERS, SENSOR OPERATION, AND 0.5 GPM OUTLET. ACCESSORIES: PROVIDE WATTS LFG480 THERMOSTATIC MIXING VALVE, GRID DRAIN WITH TAILPIECE, SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH ANGLE STOPS AND CONCEALED ARM LAVATORY SUPPORT. PROVIDE WITH FULLY MOLDED FLEXIBLE VINY L INSULATION KIT COVER TRAP, SUPPLIES AND STOPS, TRUEBRO E-Z LAV GUARD. NOTE: MOUNT FIXTURE RIM 31" ABOVE FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"	
S-1	SINK (ADA)	DAYTON	DCFU2816	SINGLE COMPARTMENT UNDERMOUNT SINK, 18 GA, TYPE 304 STAINLESS STEEL, 6-1/2" DEEP BOWL. AMERICAN STANDARD 7077300 "COLONY PRO" SINGLE HOLE, DECK MOUNTED FAUCET WITH CERAMIC OPERATING CARTRIDGE, SINGLE LEVER HANDLE, AND PULL DOWN SPRAY. ACCESSORIES: STRAINER WITH 1-1/2" TAILPIECE, 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME- PLATED RISERS WITH ANGLE STOPS. GARBAGE DISPOSAL: MOEN GXP33C PRO SERIES 1/3 HP WITH POWER CORD.	1/2"	1/2"	2"	1-1/2	
JS-1	JANITOR SINK	ZURN	Z1996-24	SIZE 24" X 24" X 10", COMPOSITE SERVICE SINK WITH COMPOSITE DRAIN, STAINLESS STEEL STRAINER, 3" DRAIN CONNECTION. ZURN Z843M1 WITH QUARTER TURN CERAMIC OPERATING CARTRIDGES, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE HOSE THREAD OUTLET, 369 LEVER HANDLES, FLANGED ADJUSTABLE SUPPLY ARM AND INTEGRAL SUPPLY STOPS AND CHECK VALVES. ACCESSORIES: EXTRUDED VINYL BUMPER GUARDS ON EXPOSED SIDES, RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET.	1/2"	1/2"	3"	2"	
SD-1	SCRUBBER DUMP	ZURN	Z843M1	WALL MOUNTED FAUCET WITH QUARTER TURN CERAMIC OPERATING CARTRIDGES, VACUUM BREAKER SPOUT, PAIL HOOK AND WALL BRACE, 3/4" MALE HOSE THREAD OUTLET, 369 LEVER HANDLES, FLANGED ADJUSTABLE SUPPLY ARM AND INTEGRAL SUPPLY STOPS AND CHECK VALVES.	1/2"	1/2"	-	-	
DF-1	DRINKING FOUNTAIN (ADA)	ELKAY	EZSTL8LC	ADA BARRIER-FREE BI-LEVEL COOLER, 8.0 G.P.H. (50° F WATER WITH 90° F AIR TEMPERATURE), PUSH BAR ACTIVATION, STAINLESS STEEL COOLER TOP, HEAVY GAUGE VINYL CLAD STEEL CABINET WITH GREY FINISH. 120V/1PH/60HZ. ACCESSORIES: 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED SUPPLY AND STOP, J.R. SMITH FLOOR MOUNTED TYPE SUPPORT WITH "PRO-SET" UPRIGHTS. NOTES: MOUNT WITH SPOUT 35" ABOVE FINISH FLOOR.	1/2"	-	1-1/2"	1-1/2	
IM-1	ICE MAKER WALL BOX	SIOUX CHIEF	696-G1000 SERIES	RECESSED ICE MAKER WALL BOX WITH QUARTER TURN VALVE AND 1/2" INLET, ABS COVER.	1/2"			-	
FD-1	FLOOR DRAIN	ZURN	FD-2210	GENERAL PURPOSE, PVC BODY WITH ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS. NOTE: PROVIDE WITH RECTORSEAL TRAP SEAL IN OUTLET OF FLOOR DRAIN. MATCH OUTLET SIZE.	-	-	2"	1-1/2	
FD-2	EQUIPMENT DRAIN	WATTS	FD-344-Y	EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, AND ROUND DUCTILE IRON STRAINER.	_	<b>I</b>	3"	1-1/2	





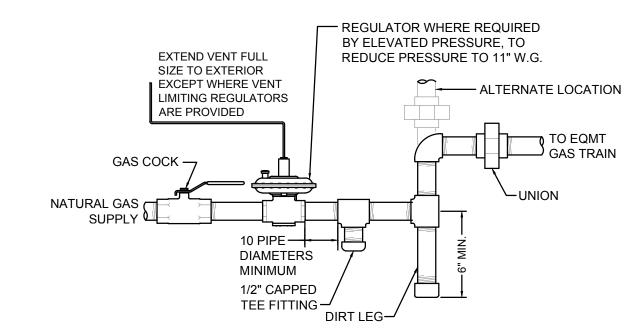
## POINT-OF-USE MIXING VALVE NO SCALE

## 1. CONTRACTOR TO INSTALL WHERE INDICATED ON PLANS IN ACCESSIBLE LOCATION.

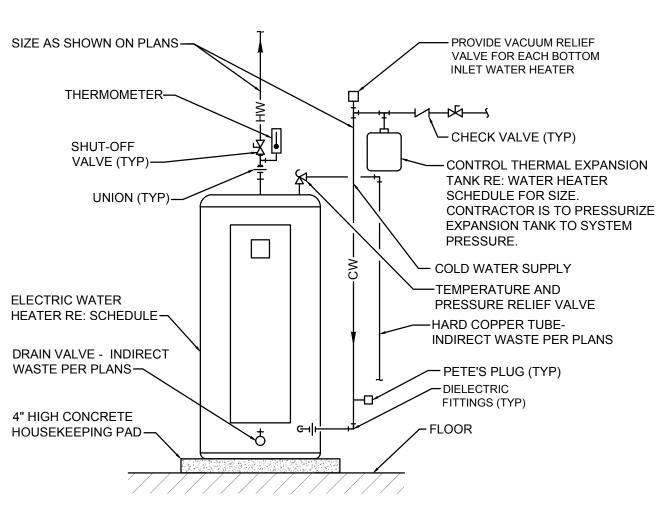
- 2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 3. WATER HEATERS THAT ARE NOT RECIRCULATED SHALL BE EQUIPPED WITH AN INLET AND OUTLET HEAT TRAP, WHETHER INTEGRAL OR EXTERNAL, IN ACCORDANCE WITH THE IECC ENERGY CODE.
- 4. FOR DOMESTIC WATER SYSTEMS UTILIZING PVC, CPVC OR PEX, PROVIDE 18" MINIMUM COPPER OR BREADED STAINLESS STEEL HOSE CONNECTIONS.

NO SCALE

	HEDULE (ELECTRIC)												
TANK	CAPACITY	INPUT	THERMAL EXPANSION				NOTES						
LINING	(GAL)	(KW)	TANK MODEL NO.	VOLT	ø	HZ							
GLASS	40	6	PLT-5	208	1	60	1,2,3						



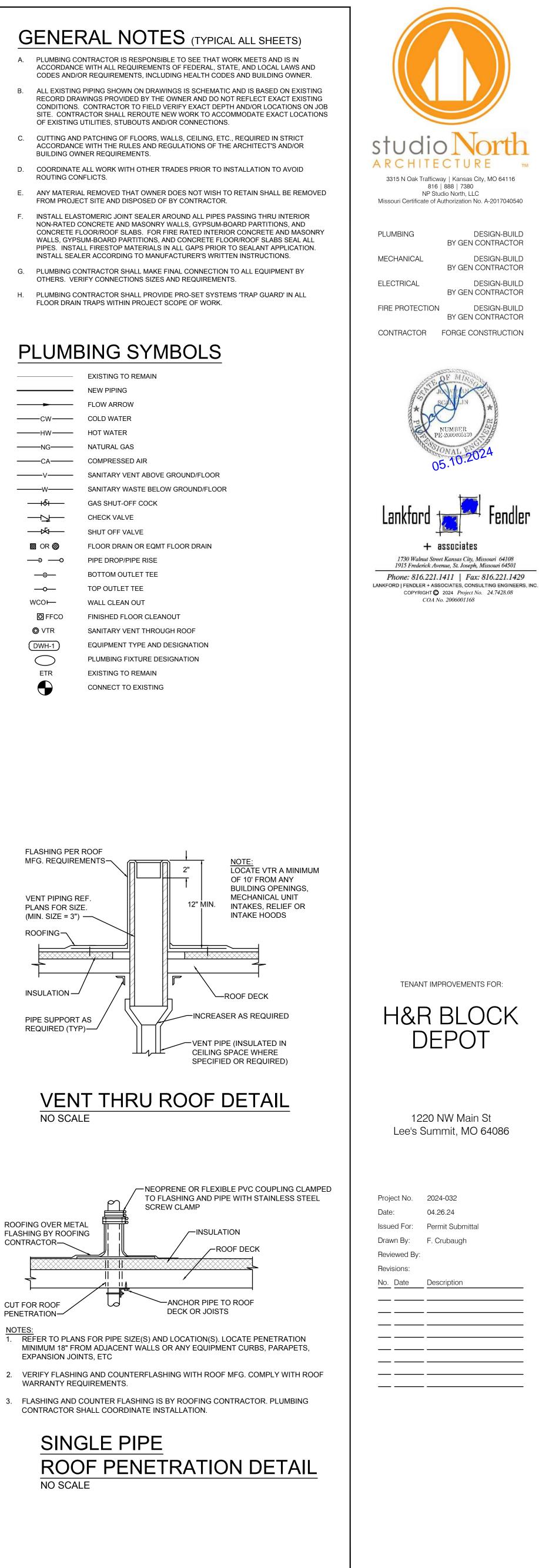
GAS EQUIPMENT **CONNECTION DETAIL** NO SCALE



ELECTRIC WATER HEATER DETAIL

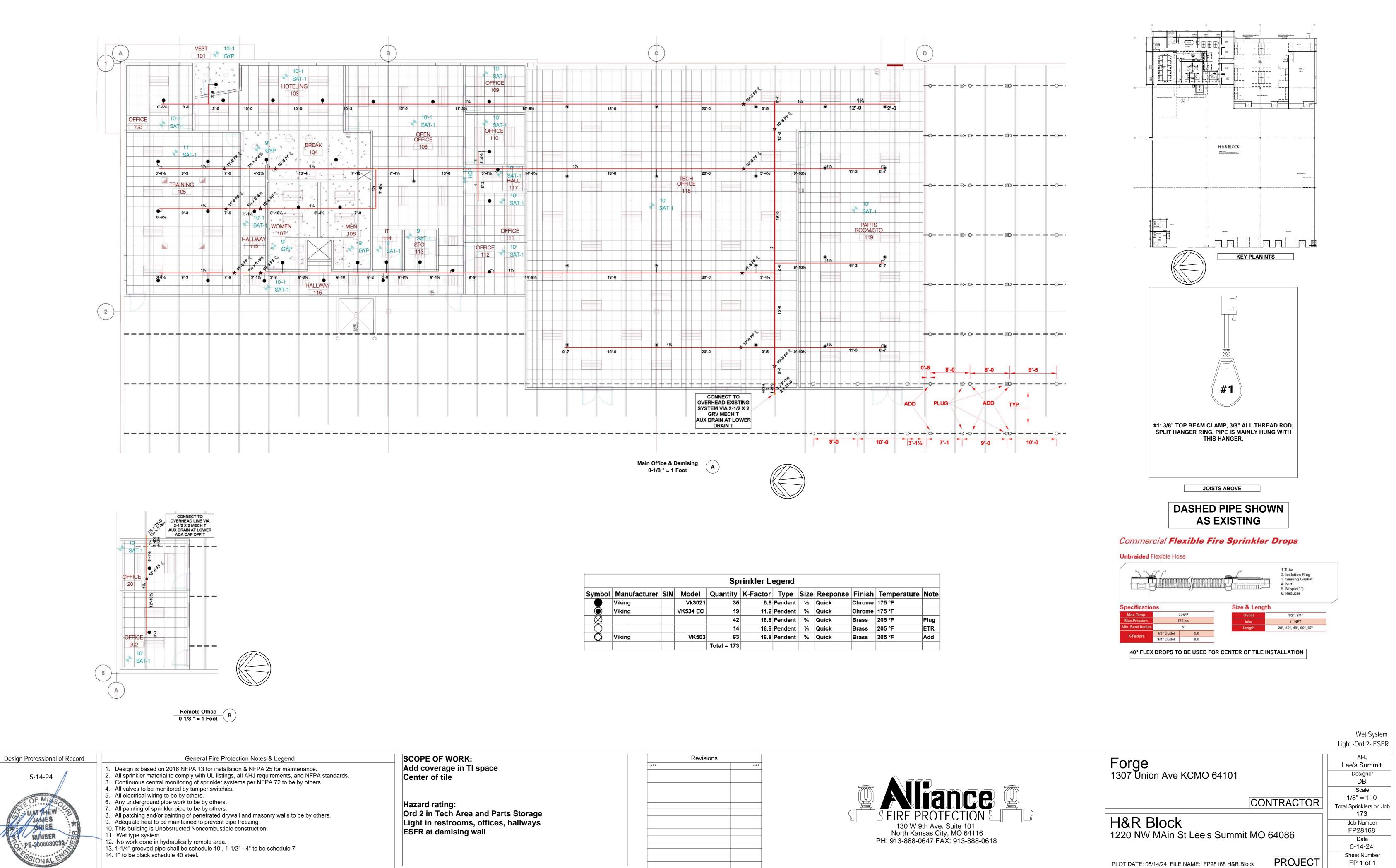
- OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- BUILDING OWNER REQUIREMENTS.
- ROUTING CONFLICTS.
- FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- н FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.

	EXISTING TO REMAIN
	NEW PIPING
<b></b>	FLOW ARROW
CW	COLD WATER
——HW——	HOT WATER
NG	NATURAL GAS
——СА——	COMPRESSED AIR
V	SANITARY VENT ABOVE GROUND/FLOOR
W	SANITARY WASTE BELOW GROUND/FLOOR
<del>k</del> i	GAS SHUT-OFF COCK
	CHECK VALVE
——这——	SHUT OFF VALVE
🛛 OR 🖉	FLOOR DRAIN OR EQMT FLOOR DRAIN
<u></u> ے ہے	PIPE DROP/PIPE RISE
<del></del>	BOTTOM OUTLET TEE
<b>_~</b>	TOP OUTLET TEE
wcom	WALL CLEAN OUT
O FFCO	FINISHED FLOOR CLEANOUT
<b>Ø</b> VTR	SANITARY VENT THROUGH ROOF
DWH-1	EQUIPMENT TYPE AND DESIGNATION
$\bigcirc$	PLUMBING FIXTURE DESIGNATION
ETR	EXISTING TO REMAIN
$\bigcirc$	CONNECT TO EXISTING
-	



ROOFING OVER METAL FLASHING BY ROOFING CONTRACTOR-CUT FOR ROOF PENETRATION-

P2.0UMBING NOTES, SYMBOLS DETAILS, & SCHEDULES



	Sprinkler Legend													
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note			
	Viking		Vk3021	35	5.6	Pendent	1/2	Quick	Chrome	175 °F				
Ó	Viking		VK534 EC	19	11.2	Pendent	3⁄4	Quick	Chrome	175 °F				
Ø				42	16.8	Pendent	3⁄4	Quick	Brass	205 °F	Plug			
Ō				14	16.8	Pendent	3⁄4	Quick	Brass	205 °F	ETR			
Ő	Viking		VK503	63	16.8	Pendent	3⁄4	Quick	Brass	205 °F	Add			
				Total = 173										