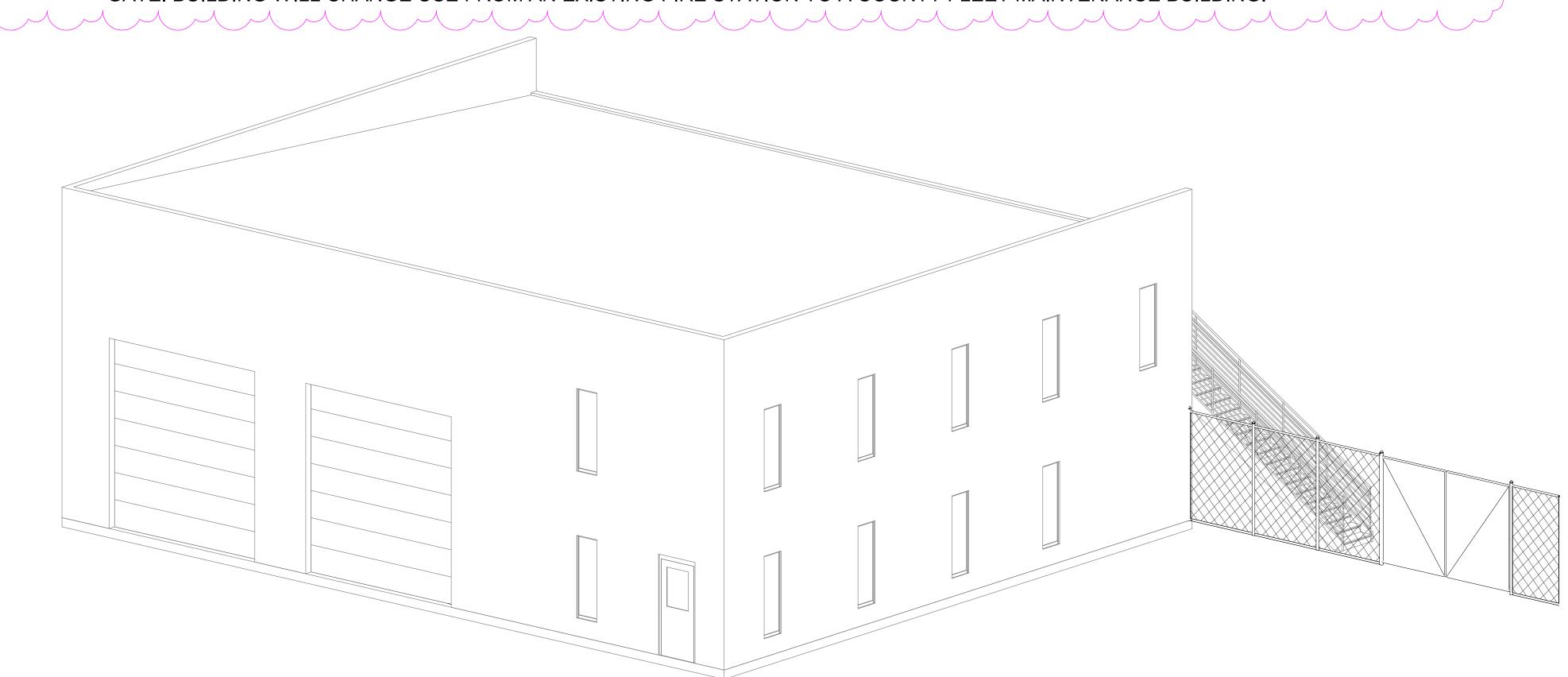
FIRESTATION 15 RENOVATION

PERMIT SET

INTERIOR BUILDING RENOVATION WITH SOME MINOR EXTERIOR ADDITIONS THAT INCLUDE A COVERED CONCRETE PAD AND A NEW CHAIN-LINK FENCE AND GATE. BUILDING WILL CHANGE USE FROM AN EXISTING FIRE STATION TO A COUNTY FLEET MAINTENANCE BUILDING.





	PROJECT DIR	ECTORY	
OWNER:	FORSYTH COUNTY 514 WEST MAPLE STREET SUITE 1201 CUMMING, GA 30040	MELODY FONTANA TEL: 470-622-9695 mlfontana@forsythco.com	
ARCHITECT:	JERICHO DESIGN GROUP 208 PIRKLE FERRY RD SUITE C CUMMING, GA 30040	DOUG SHAW TEL: 678-983-5992 dshaw@jericho-design.com	
MECHANICAL ELECTRICAL & PLUMBING:	CONWAY AND OWEN 1455 BLUEGRASS LAKES PKWY ALPHARETTA, GA 30004	KEN BOVE TEL: 678-820-4608 kbove@conway-owen.com	

City of Cumming
Department of Utilities
Heather McKeldín

Key box shall be located on the

Forsyth County Department of

John Barlow

SHEET NO.	SHEET NAME
01 COVER	
CS-1.01	COVER SHEET
1	-
02 LIFE SAFETY	
LS-1.01	LIFE SAFETY
1	
03 GENERAL	
G-1.01	ADA REGULATORY DETAILS & DIAGRAMS
G-2.01	PARTITION TYPES
G-3.01	SPECIFICATIONS
G-3.02	SPECIFICATIONS
G-3.03	SPECIFICATIONS
G-3.04	SPECIFICATIONS
G-3.05	SPECIFICATIONS
G-3.06	SPECIFICATIONS
8 07a ARCHITECTURAL SITE	
AS-1.01	SITE PLAN
1	0.1.2.1.2.1.1
07b ARCHTECTURAL - EXISTING	3
E-1.01	EXISTING PLANS - LEVEL 1 & 2
1	1
07c ARCHTECTURAL - DEMO	
0.0,4.0	
D-1.01	DEMOLITION PLANS - LEVEL 1 & 2

DRAWING INDEX

07d ARCHITECTURAL		
A-1.01	REFERENCE FLOOR PLANS - LEVEL 1 & 2	
A-2.01	REFLECTED CEILING PLANS - LEVEL 1 & 2	
A-4.01	EXTERIOR ELEVATIONS AND DOOR DETAILS	
3		
08 INTERIORS		
ID-1.01	FINISH SCHEDULE & GENERAL NOTES	
ID-2.01	FINISH & REFERENCE PLAN - LEVEL 1 & LEVEL 2	
ID-6.01	FURNITURE EQUIPMENT PLANS - LEVEL 1 & LEVEL 2	
ID-7.00	SIGNAGE DIAGRAMS	
ID-7.01	SIGNAGE PLANS - LEVEL 1 & LEVEL 2	
5	1	
09 ELECTRICAL		
E0.1	ELECTRICAL LEGENDS. AND NOTES	
E0.2	ELECTRICAL NOTES, AND DETAILS	
E0.3	COMCHECK	
E1.1	DEMOLITION PLAN - ELECTRICAL	
E1.2	FLOOR PLAN - ELECTRICAL	
E1.3	FLOOR PLAN - LIGHTING	
E1.4	FLOOR PLAN - MECHANICAL AND FIRE ALARM	
E2.1	PANEL SCHEDULES AND RISER DIAGRAM	

SHEET NO.	SHEET NAME	
10 MECHANICAL		
M-0.01	LEGENDS AND SCHEDULES - HVAC	
M-0.02	SPECIFICATIONS	
M-0.03	DETAILS - HVAC	
M-1.00	DEMOLITION PLANS - HVAC	
M-1.01	FLOOR PLANS - HVAC	
5		
11 PLUMBING		
P0.01	LEGENDS AND SCHEDULES - PLUMBING	
P0.02	DETAILS - PLUMBING	
P1.00	DEMOLITION PLAN - PLUMBING	
P1.01	FLOOR PLANS - DOMESTIC WATER AND COMPRESSED AIR	
P1.02	FLOOR PLANS - SANITARY AND VENT	
F 1.02		
P1.03	ISOMETRIC VIEW - SANITARY AND VENT	



VICINITY MAP

ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR ALUM. **ALUMINUM** HEIGHT INSTALLED BY CONTRACTOR JOINT BLDG. BUILDING LANDLORD MANUFACTURER MATERIAL **COLD FORMED METAL FRAMING** MAXIMUM **CENTER LINE MECHANICAL** CONTROL JOINT CONCRETE MASONRY UNIT NON-COMBUSTIBLE COORD. COORDINATE NOT IN CONTRACT COLUMN CONC. CONCRETE N.T.S. NOT TO SCALE CONT. CONTINUOUS OVERFLOW DRAIN DIAMETER OPPOSITE DWG. DRAWING PLASTIC LAMINATE D.S. DOWN SPOUT PLYWD. PLYWOOD EA. EACH ELEV. **ELEVATION** PRESSURE TREATED ELEC. **ELECTRIC** ON CENTER EQUIPMENT SUPPLIER E.S. R.D. **ROOF DRAIN** EXP. **EXPANSION** SUPPLIED BY OWNER S.B.O. EXT. **EXTERIOR** SCHED. SCHEDULE E.W.C. ELECTRIC WATER COOLER SIMILAR FLOOR DRAIN STEEL FIRE EXTINGUISHER CABINET STRUCT. STRUCTURAL

TOP OF

TYPICAL

VERTICAL

WITH

WOOD

W.W.F. WELDED WIRE FABRIC

TYP.

VWC

TONGUE AND GROOVE

VINYL WALL COVERING

U.N.O. UNLESS NOTED OTHERWISE

SECTION MARK
'SIM' - SIMILAR
'OH' - OPPOSITE HAND

ENLARGED
PLAN / DETAIL
MARK

O01

DOOR REFERENCE NUMBER

OFFICE

101

ROOM NAME & NUMBER

A

COLUMN AND GRID NUMBER

STEEL, IRON

WINDOW REFERENCE NUMBER

WOOD

SOLID GROUT

MORTAR NET

WOOD DIMENSIONAL

PLASTER, GYPSUM WALLBOARD

SHEATHING

1. THESE DRAWINGS ARE THE PROPERTY OF JERICHO DESIGN GROUP, LLC AND SHALL NOT BE REPRODUCED OR COPIED (PHYSICALLY AND/OR DIGITALLY) IN PART OF WHOLE. THEY ARE TO BE USED FOR THIS PROJECT ONLY AND ARE NOT TO BE USED ON ANY OTHER PROJECT.

2. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO AGREE AND BE MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT

MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT SEPARATELY. SHOULD ANY ITEMS BE OMITTED FROM THE DRAWINGS AND BE HEREIN SPECIFIED, OR VICE VERSA, IT SHALL BE EXECUTED THE SAME AS IF SHOWN AND COMBINED IN BOTH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ENTIRE SET TO EACH SUBCONTRACTOR.

3. THE CONTRACTOR IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AFTER FULL REVIEW OF CONTRACT DOCUMENTS TO INCLUDE BUT NOT LIMITED TO ERRORS, OMISSIONS, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITH THE DRAWINGS/SPECIFICATIONS OR AS RELATED TO FIELD CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT IMMEDIATELY TO

DISCUSS A RESOLUTION.

4. DO NOT SCALE THE DRAWINGS UNDER ANY CONDITION.

5. WORK PERFORMED SHALL BE IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS PER INDUSTRY STANDARDS. ALL REQUIRED PERMITS AND FEES ASSOCIATED ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR NECESSARY FOR START AND COMPLETION OF THE PROJECT. COPIES OF INSPECTIONS AND PERMITS SHALL BE FURNISHED TO OWNER AT REQUEST AND/OR AT PROJECT CLOSEOUT.

6. CONTRACTOR TO TAKE PRECAUTIONS IN PROTECTING THE WORK DURING CONSTRUCTION. ANY DAMAGE TO BE RESTORED TO ORIGINAL CONSTRUCTION BY THE CONTRACTOR. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION BY THE CONTRACTOR. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

7. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE ARCHITECT FOR CONSIDERATION ONLY IF IMPACT TO SCHEDULE, COST CHANGE OR QUALITY OF PRODUCT. ACCEPTANCE BY ARCHITECT DOES NOT

IDENTIFY PRODUCT TO BE OF BETTER QUALITY THAN SPECIFIED PRODUCT.

8. SEAL ALL EXTERIOR PENETRATIONS AND VOIDS ON EXTERIOR BUILDING

ENVELOPE.

9. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF
ANY CONSTRUCTION ACTIVITIES. NOTIFY THE ARCHITECT OF ANY
DISCREPANCIES BETWEEN FIELD CONDITION/S AND CONTRACT DOCUMENTS
PRIOR TO ANY CONSTRUCTION ACTIVITY IN AREA OF CONCERN.
 10. THE LOCATION OF THE EXISTING UTILITIES & STRUCTURES SHOWN HEREIN
ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY THE EXISTENCE & ACTUAL LOCATIONS OF ALL, SHOWN OR NOT
SHOWN. ANY DAMAGES RESULTING BY CONTRACTORS' ACTIVITIES SHALL BE
REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING & SHORING FOR
ALL WORK DURING THE CONSTRUCTION PERIOD.
 12. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING

SCREWS, NAILS & OTHER FASTENING DEVICES TO AVOID GALVANIC CORROSION.

13. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS, OR SPECIFICATIONS, UNLESS NOTED OTHERWISE.

14. ALL DIMENSIONS ARE WITNESSED TO THE OUTSIDE FACE OF MASONRY, FACE OF STUD, CENTER OF COLUMN, TOP OF STRUCTURAL CONCRETE SLAB OR ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE.

OR ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE.

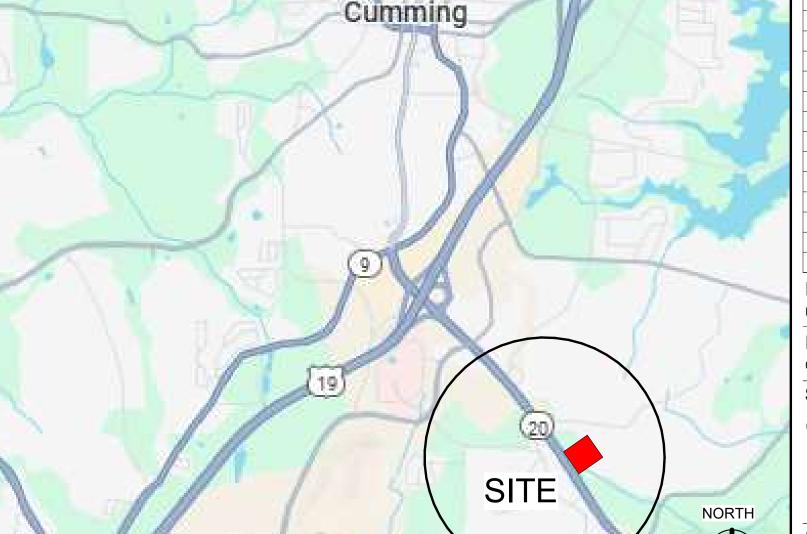
15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.

16. INTERIOR PARTITION MOVEMENT CONTROL - VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR

** The Level 2 will be an Add Alt #1 for bidding.

INCOMPLETE CONDITION.



JERICHO design group

208 Pirkle Ferry Road, Suit Cumming, GA 30040





FOCO FIRE STATION 15 RENOVATIONS

FORS

PRINT RECORD

No. DATE DESCRIPTION

1 08/22/2025 PERMIT COMMENTS

Drawn By Checked I

Drawn By
RA

Checked By
JDG

Date
08/01/2025

Sheet Title

COVER SHEET

Sheet No.

CS-1.01

LEASED FOR PERMIT

2/2025 10:32:20 AM

F.O.

F.O.F.

FOIC

FRP

F.O.M.

FINISHED FLOOR

FACE OF FINISH

FACE OF MASONRY

BY CONTRACTOR

FIRE RETARDANT

FRANCHISEE

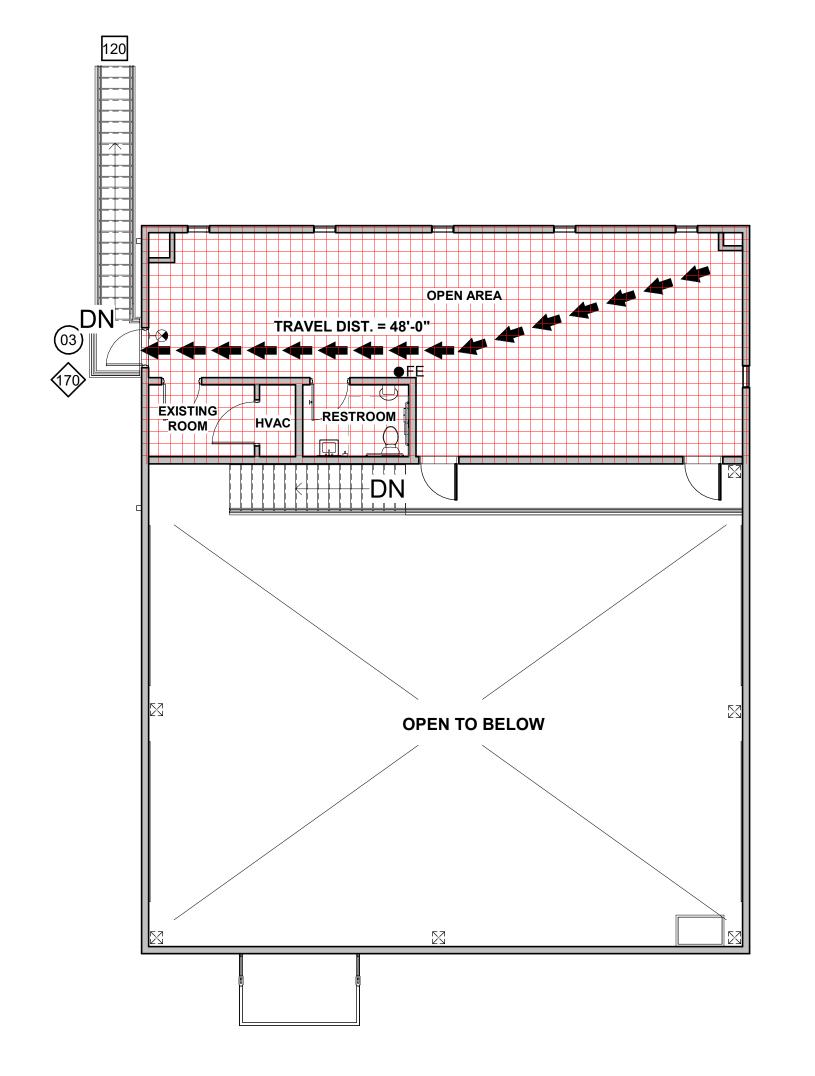
FIELD VERIFY

FURNISHED BY OWNER INSTALLED

FIBERGLASS REINFORCED POLYESTER

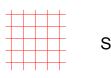
FLOOR

FACE OF





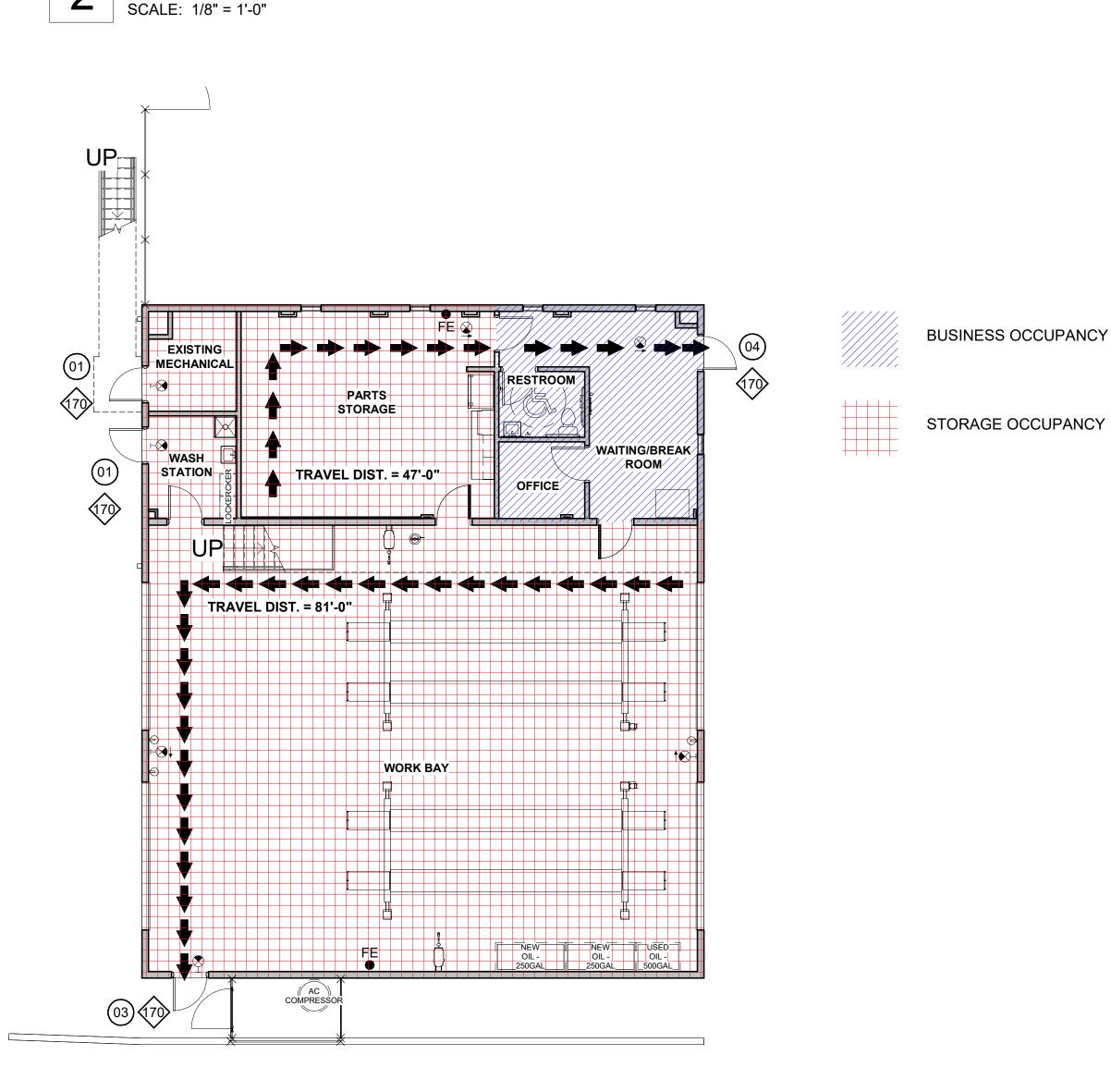
BUSINESS OCCUPANCY



STORAGE OCCUPANCY

2 FP02 - SECOND FLOOR - LIFE SAFETY

SCALE: 1/8" = 1'-0"



BUILDING DATA

OCCUPANCY CLASSIFICATION: MIXED/NONSEPARATED (LSC 3.3.196.10/IBC 508.3) STORAGE (LSC 6.1 & CHPT 42) & BUSINESS (LSC 6.1 & CHPT 38)

TYPE OF CONSTRUCTION (IBC 602): TYPE II-B, UNPROTECTED, SPRINKLERED

HEIGHT AND AREA LIMITS (IBC): ALLOWABLE HEIGHT (TABLE 504.3): 75FT -TYPE II-B CONSTRUCTION (BOTH 'B' AND 'S') ACTUAL HEIGHT: 24'

ALLOWABLE STORIES ABOVE GRADE PLANE (TABLE 504.4) -OCCUPANCY 'B': 4 STORIES -OCCUPANCY 'S': 3 STORIES **ACTUAL STORIES: 2 STORIES**

ALLOWABLE AREA FACTOR (TABLE 506.2) -OCCUPANCY 'B': 69,000SF -OCCUPANCY 'S': 52,500SF ACTURAL AREA: 4,080SF

LEVEL 1 = 3,074 GSF

LEVEL 2 = 1,006 GSF

TOTAL = 4,080 GSF

BUILDING AREAS (IBC): BUILDING OCCUPANCY (LSC):

LEVEL 1 = 09

LEVEL 2 = 03

TOTAL = 12

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (LSC CHAPT 10.2.2.1): INTERIOR EXIT ENCLOSURES: CLASS A OR B (7.1.4.1)

INTERIOR FLOOR FINISH IN EXIT ENCLOSURES: CLASS II (7.1.4.2)

FIRE RATING CRITERIA (IBC) TABLE 601: PRIMARY STRUCTURAL FRAME 0 HOUR 0 HOUR 0 HOUR 0 HOUR 0 HOUR 0 HOUR

0 HOUR

208 Pirkle Ferry Road, Suite C Cumming, GA 30040





APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020)(2022)(2024)

2018 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2020)

2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2020)(2022)(2023)

2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)(2024)

2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020)(2022)

¹ 2023 NATIONAL ÉLECTRICAL CODE ¹ NO GEORGIA AMENDMENTS /1 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)(2022)

BEARING WALLS

EXTERIOR

NONBEARING WALLS

TABLE 602: NONBEARING WALLS

EXTERIOR (11' - B)

PARTY & FIRE WALLS (TABLE 706.4): 2 HOUR

VERTICAL SHAFT ENCLOSURES (713.4): 1 HOUR

INTERIOR

INTERIOR FLOOR SYSTEM

ROOF SYSTEM

2018 NFPA 101, LIFE SAFETY CODE WITH GEORGIA CURRENT AMENDMENTS 2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE

WITH GEORGIA CURRENT AMENDMENTS 2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKER

2010 ADA STANDARDS, PER RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER 120-3-20A

SYSTEMS WITH GEORGIA CURRENT AMENDMENTS

LIFE SAFETY PLAN LEGEND

SEPARATION PER IBC CHAPTER 5

■ ■ ■ ■ ■ ■ ■ ■ 2-HOUR RATED PARTITION ■ ■ ■ ■ ■ 1-HOUR RATED PARTITION

■■■■■■■■■ SMOKE PARTITION NON-RATED PARTITION

EXTINGUISHER LOCATION PER NFPA 10

FIRE EXTINGUISHER IN RECESSED CABINET

• FE BRACKET MOUNTED FIRE EXTINGUISHER

CAPACITY PER LSC TABLE 7.3.3.1

STAIRS = 0.3"/PERSON DOORS = 0.2"/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY

72"W DOOR = 68" CLR. = 340 CAPACITY

96"W DOOR = 92" CLR. = 460 CAPACITY DOORS PER IBC 1010.1

EXIT SIGNS PER IBC 1013

EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) (REFER TO PLANS FOR ROOM OCCUPANCY CALCULATIONS) ACCESSORY STORAGE AREAS. MECHANICAL, ELECTRICAL ROOMS = 500 GSF/PERSON

OCCUPANCY LOAD FACTOR LSC 7.3.1.2 W/GEORGIA AMENDMENTS

ASSEMBLY (CONCENTRATED) = 7 NSF/PERSON

AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT

ASSEMBLY (UNCONCENTRATED) = 15 NSF/PERSON CLASSROOM/TRAINING = 20 NSF/PERSON **BUSINESS AREAS** = 150 GSF/PERSON

ALLOWABLE DISTANCE PER LSC 12.2.6 TRAVEL DISTANCE LIMIT - MAX. 100 FT. SPRINKLERED

COMMON PATH LIMIT - MAX. 100 FT. SPRINKLERED

DEAD END LIMIT - MAX. 100 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS)

NUMBER OF EXITS PER IBC 1006 & LSC 7.4.1.2 00 EGRESS CAPACITY OF STAIR (00) ACTUAL EGRESS COUNT

00 EGRESS CAPACITY OF EXIT

PLUMBING FIXTURE REQUIREMENTS (IBC 2902.01)				
OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
BUSINESS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1
STORAGE	1 PER 100	1 PER 100	1 PER 100	1

									PRII	NT RECORD
	PLI	JMBING F	IXTURE C	OUNT: (TO	OTAL OCC	UPANCY '	12)		No. 1	DATE 08/22/2025 PERM
OCCUPANCY	WATER CL	OSETS	LAVATORIE	≣S	DRINKING F	OUNTAINS	SERVICE S	NK		
BUSINESS	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED		
3 PERSONS	1	1	1	1	0*1	1	0*2	0		
STORAGE	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED		
9 PERSONS	1	1	1	1	0*1	0	1	1		
TOTAL	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED		
12 PERSONS	2	2	2	2	0	1	1	1		

*1 - Per Plumbing Code Section 410.2 - "Drinking fountains shall not be required for an occupant load of 25 or fewer." *2 - Per Plumbing Code Section 403.1 - "For business and mercantile classifications with an occupancy load of 15 or fewer, service sinks shall not be required."

ATIO

DESCRIPTION

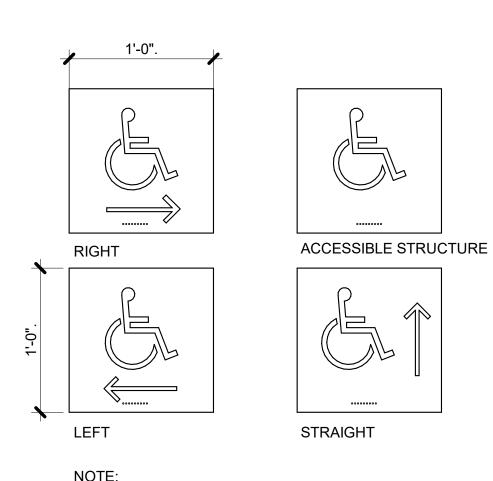
08/22/2025 PERMIT COMMENTS

Checked By Drawn By Job No. Date 08/01/2025 Sheet Title

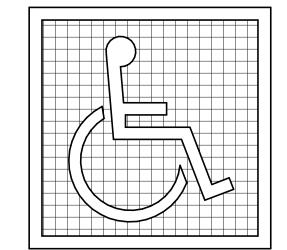
LIFE SAFETY

FP01 - FIRST FLOOR - LIFE SAFETY

SCALE: 1/8" = 1'-0"



NOTE: 5/8"-2" UPPER CASE TEXT RAISED 1/32" IN SANS SERIF OR SIMPLE SERIF TYPEFACE WITH GRADE II BRAILLE

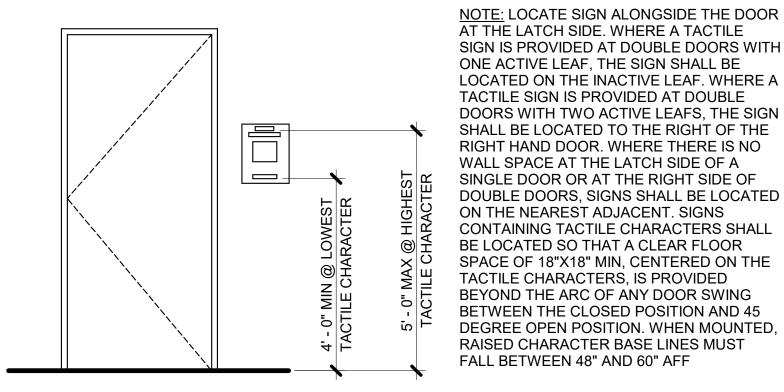


A. SYMBOL PROPORTIONS **B. DISPLAY CONDITIONS**

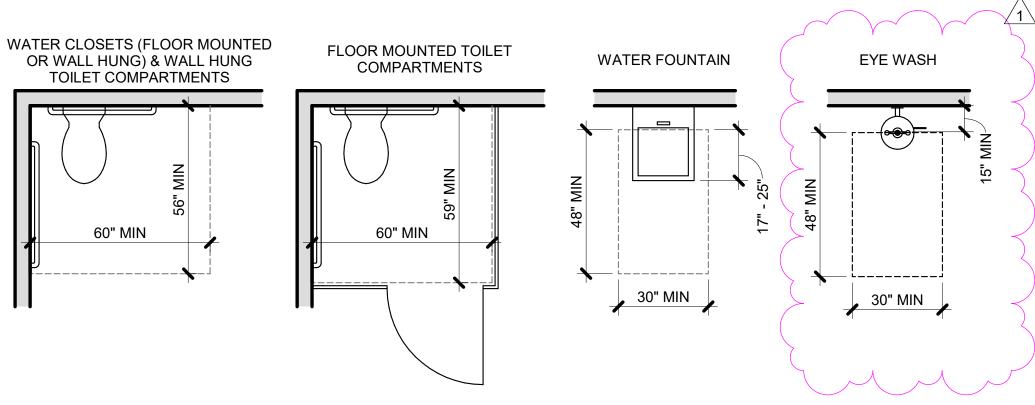
NOTE:

SYMBOL SIZE SHALL BE AS SCHEDULED IN SIGN LAYOUT DIAGRAMS. STROKE WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

SIGN LETTERS/ NUMBERS WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.



SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"X18" MIN, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHEN MOUNTED, RAISED CHARACTER BASE LINES MUST FALL BETWEEN 48" AND 60" AFF



3 ADA CLEARANCES

SCALE: 3/8" - 41 0" SCALE: 3/8" = 1'-0"





STROKE WIDTH

1:5 1:10

20% 10%

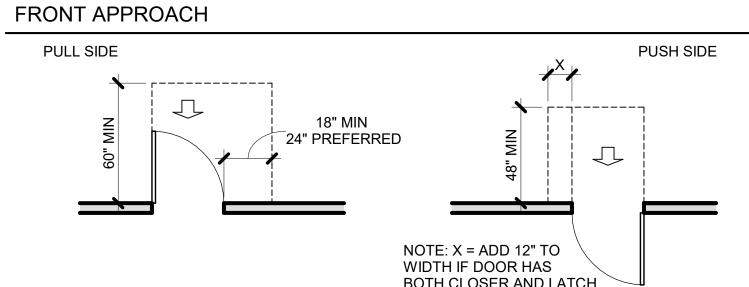
MIN - MAX

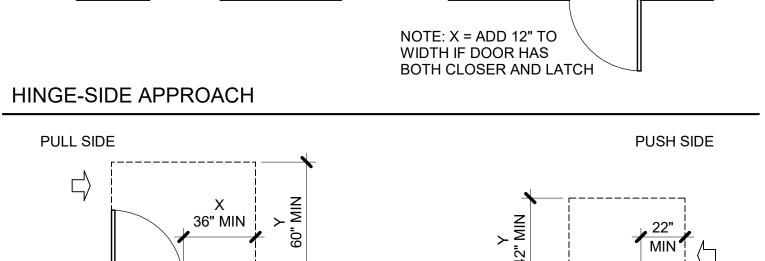
0.059" - 0.063"

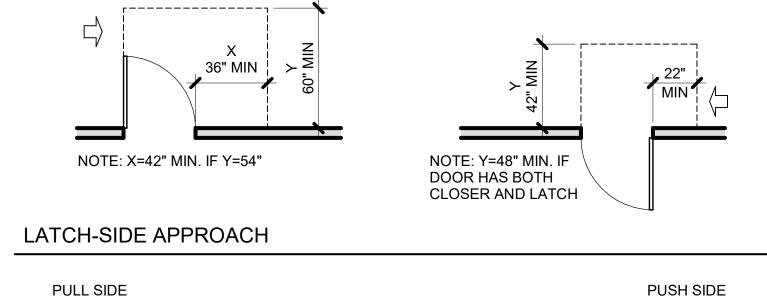
0.241" - 0.300"

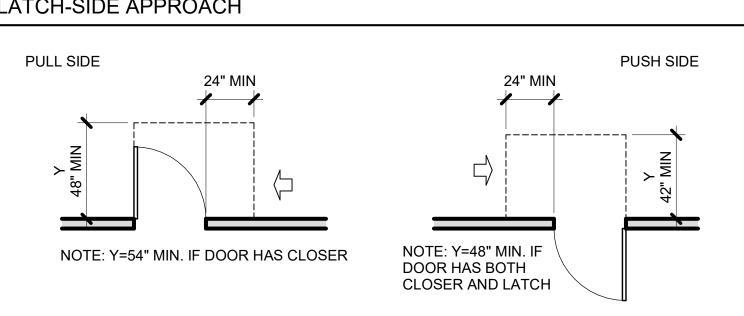
0.090" - 0.100"











1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE.

2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8"(15.9mm) AND A MAXIMUM OF 2" (51mm) HIGH.

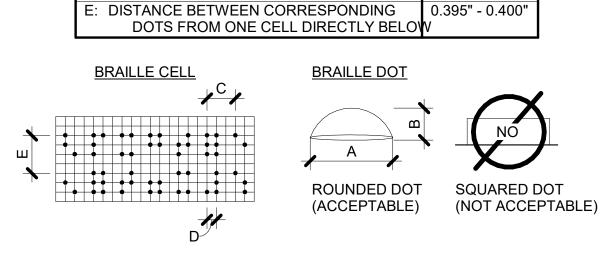
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.

4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.

ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT SMALLER THAN 1 INCH. NOR NARROWER THAN THE 3:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

5. BRAILLE: GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. SEE CHART FOR DIMENSIONS.

6 BRAILLE REQUIREMENTS
SCALE: 12" - 4" 0"



TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

60%

C: DISTANCE BETWEEN CORRESPONDING

DOTS IN ADJACENT CELLS

D: DISTANCE BETWEEN DOTS IN THE

CHARACTER WIDTH

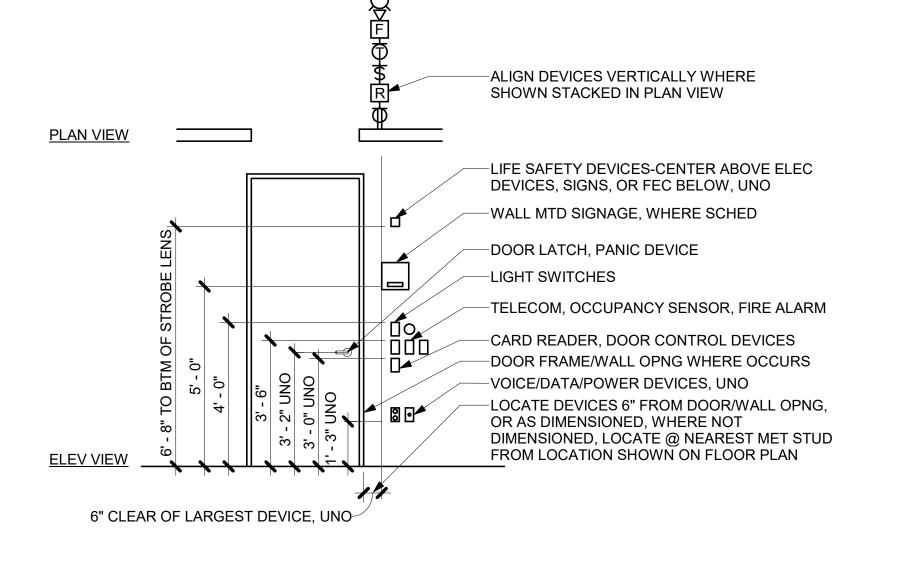
100%

B: DOT HEIGHT

MEASUREMENT RANGE

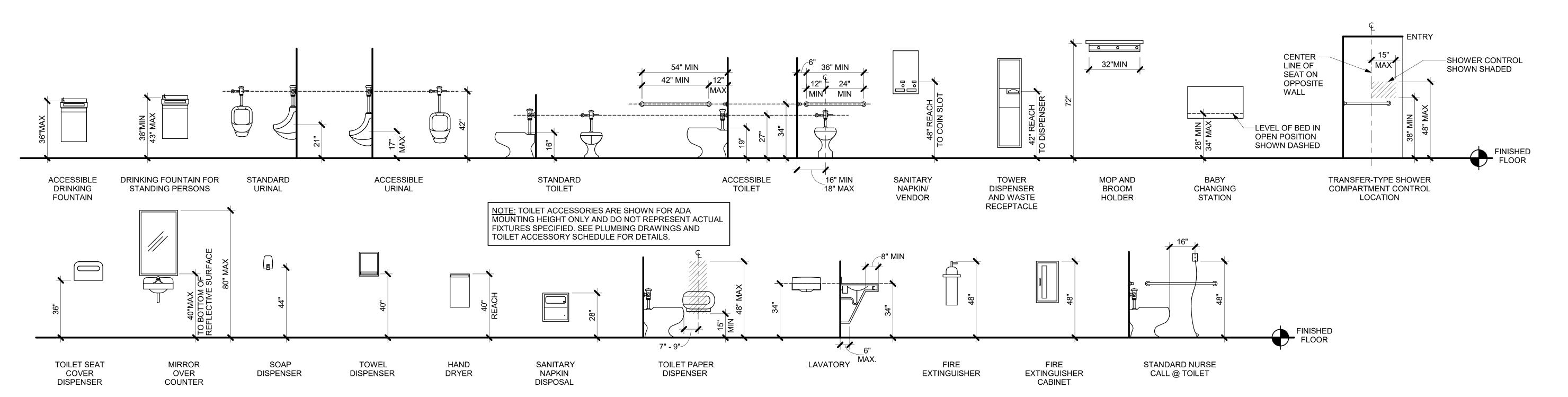
A: DOT BASE DIAMETER

SAME CELL





DOOR CLEARANCES



PRINT RECORD DESCRIPTION No. DATE 08/22/2025 PERMIT COMMENTS Drawn By **Checked By** JDG Job No. Date

208 Pirkle Ferry Road, Suite C Cumming, GA 30040

08/01/2025 25018 Sheet Title **ADA REGULATORY DETAILS &**

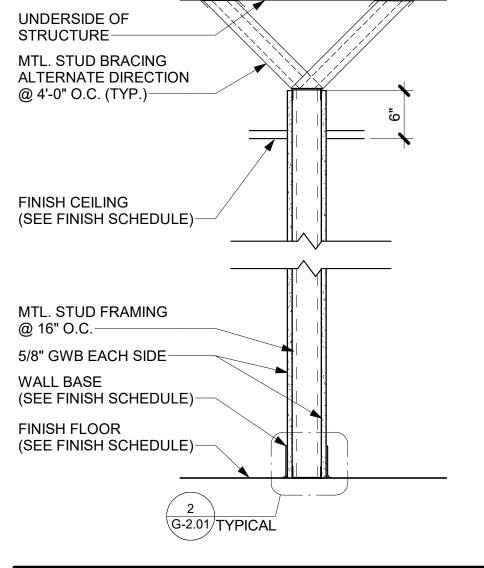
Sheet No.

Final Approval Subject to Field Inspection

DIAGRAMS

RELEASED FOR PERMIT

MOUNTING HEIGHTS



MTL. STUD PARTITION TO 6" ABOVE CEILING						
WALL TYPE	DESCRIPTION	FIRE RATING	U.L.#	STC		
В3	3 5/8" MTL. STUD	N/A	N/A	N/A		

	TRUCTURE————		
AL	TL. STUD BRACING TERNATE DIRECTION 4'-0" O.C. (TYP.)———		
(S SC	NISH CEILING EEE SCHEDULE)————————————————————————————————————		
@ 5/8 W (S FII	TL. STUD FRAMING 16" O.C. 8" GWB ONE SIDE ALL BASE EE FINISH SCHEDULE) NISH FLOOR EE FINISH SCHEDULE)		
	G-2.01	SIMILAR	·
M	TL. STUD FURRING	G TO 6" A	BOVE CEILING

TL. STU	JD FURRING TO 6"	ABOVE CEIL	ING	
ALL TYPE	DESCRIPTION	FIRE RATING	U.L.#	STC
H1	7/8" HAT CHANNELS (NO ACOUSTIC BATTING)	N/A	N/A	N/A





GENERAL PARTITION NOTES

- STUD DESIGN CRITERIA: ALL INTERIOR, NON-LOAD BEARING METAL STUDS SHALL BE 20 GAUGE (MIN.) UNLESS OTHERWISE NOTED. PROVIDE 5 PSF MIN. APPLIED LATERAL LOAD, L/240 MAX. DEFLECTION.
- 2. ALL FIRE RATED PARTITIONS MUST EXTEND AND SEAL TO STRUCTURE ABOVE.

 3. INSTALLATION OF GYPSLIM BOARD, BACKER BOARD, AND BASE BOARD, SHALL, CONFORM.
- 3. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- 4. PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH INCLUDING RESTROOMS.

 5. PROVIDE 5/8" GYPSUM BOARD UNI ESS OTHERWISE NOTED.
- 5. PROVIDE 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED.6. PROVIDE 5/8" TYPE X GYPSUM BOARD AT FIRE RATED PARTITIONS.
- PROVIDE 3/8 TYPE X GYPSOM BOARD AT FIRE RATED PARTITIONS.
 METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
- 8. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS, ACCESSORIES, FIXTURES, FURNITURE OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. PROVIDE BLOCKING TO MATCH THE OVERALL HEIGHT AND WIDTH OF ALL WALL MOUNTED MONITORS AND TVS.
 WHEN INSTALLING GYPSUM BOARD, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF
- THE MOST CURRENT EDITION OF THE GYPSUM ASSOCIATION "GA-600" FIRE RESISTANCE DESIGN MANUAL AND THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.

 11. PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE SHALL HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE.
- GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.

 12. GYPSUM BOARD SHALL BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL
- OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".

 13. THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS SHALL BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE CONCRETE FLOOR SLAB AND SHALL BE SEALED FOR THE FULL
- DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.

 14. REFER TO THE LIFE SAFETY FLOOR PLANS FOR EXTENT OF FIRE WALL RATINGS.

 15. ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF STRUCTURE O
- 15. ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF STRUCTURE OR FLOOR DECK ABOVE.
 16. PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE
- MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
- 17. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.
- 18. REFER TO INTERIOR FINISH SCHEDULE FOR ALL WALL FINISHES.

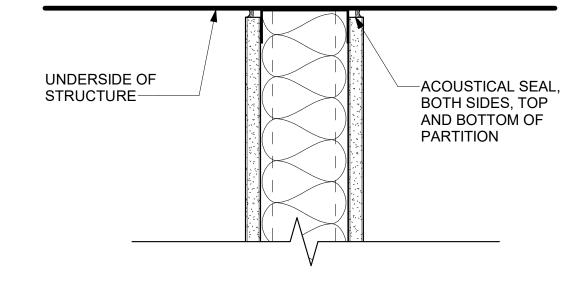
 19. ALL FIRE AND/OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING
- BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2018 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS AND WALLS. SUGGESTED WORDING '(--) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS.



208 Pirkle Ferry Road, Suite C Cumming, GA 30040

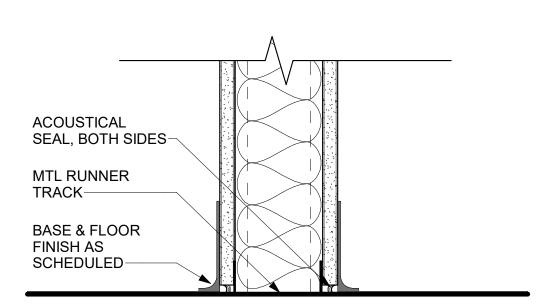






3 HEAD OF WALL DETAIL

SCALE: 3" = 1'-0"



2 BOTTOM OF WALL DETAIL

SCALE: 3" = 1'-0"

FOCO FIRE STATION 15 RENOV.

PRINT RECOR	
No. DATE	DESCRIPTION
Drawn By	Checke
JDG	JDG

PARTITION TYPES

Forsyth County Reviewed

By reviewing the plant for Could Compliance, it does not relieve the owner, design professionals, contractors or their representatives from the responsibility to comply with all local, state and restorate closes and senarized in check of every item and does not pervent this department from requiring corrections during construction. Any children of the county of the county is considered to the county of the c

heet No. **G-2.0**1 A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and 1. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control. 2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project. A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter: 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, 3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable. 4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional 6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities. B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an 1. Submit an electronic document, combining the request form with supporting data into single document. 1. Submit substitution requests by completing the form attached to this section. See this section for additional information and C. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time D. Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule. 1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost 2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors. a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request. 1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval. A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner. A. Accepted substitutions change the work of the Project. They will be documented and incorporated into Work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the A. Include completed Substitution Request Forms as part of the Project record. Include both approved and rejected Requests. A. A facsimile of the Substitution Request Form (During Construction) required to be used on the Project is included in Section 012500.01-A. Comply with requirements of Section 017000 - Execution and Closeout Requirements for coordination of execution of administrative tasks B. Contractor shall perform excavations in accordance with OSHA 1926 Subpart P and O.C.G.A Title 25 chapter 9 (2017). C. Contractor shall perform all work in accordance with the most current version of the regulation of the Federal Occupational Safety and 1. Contractor shall have at least one "competent" member of its company with OSHA 10 training (minimum) on-site at all times during a 2. Contractor's subcontractors shall have at least one "competent" member of its company with OSHA 10 training on site at all times 3. Contractor shall maintain a daily log of all subcontractors onsite performing work. Log shall contain the name of company, 5. OSHA 10 training is a minimum requirement and certification must be valid within a minimum of three (3) years of the certification date. Any superseding OSHA certification must be valid within a minimum of three (3) years of the certification date. B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for _____ access, traffic, D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF, MS Word, or MS Excel) format, as appropriate to the document, and transmitted via an Internet-based submittal service that receives, logs and stores documents, provides 1. Besides submittals for review, information, and closeout, this procedure applies to Requests for Interpretation (RFIs), progress documentation, contract modification documents (e.g. supplementary instructions, change proposals, change orders), applications for payment, field reports and meeting minutes, Contractor's correction punchlist, and any other document any participant wishes to make 4. Subcontractors, suppliers, and Architect's consultants will be permitted to use the service at no extra charge. 5. Users of the service need an email address, internet access, and PDF review software that includes ability to mark up and apply electronic stamps (such as Adobe Acrobat, www.adobe.com. or Bluebeam PDF Revu, www.bluebeam.com), unless such software 6. Paper document transmittals will not be reviewed: emailed electronic documents will not be reviewed. 7. All other specified submittal and document transmission procedures apply, except that electronic document requirements do not apply C. Training: One, one-hour, web-based training session will be arranged for all participants, with representatives of Architect and Contractor D. Project Closeout: Architect will determine when to terminate the service for the project and is responsible for obtaining archive copies of 5. Designation of personnel representing the parties to Contract, _____ and Architect. 6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures. Scheduling. D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.03 SITE MOBILIZATION MEETING

4. Contractor's superintendent.

1. Use of premises by Owner and Contractor.

4. Temporary utilities provided by Owner.

6. Security and housekeeping procedures.

10. Procedures for maintaining record documents.

11. Requirements for start-up of equipment.

8. Application for payment procedures.

3. Construction facilities and controls provided by Owner.

5. Major subcontractors.

2. Owner's requirements.

9. Procedures for testing.

those affected by decisions made.

4. Contractor's superintendent.

1. Review minutes of previous meetings

8. Maintenance of progress schedule.

13. Other business relating to work.

3.05 CONSTRUCTION PROGRESS SCHEDULE

B. Photography Type: Digital; electronic files.

1. Completion of site clearing.

3. Provide factual presentation

1. Delivery Medium: Via email.

3.08 REQUESTS FOR INTERPRETATION (RFI)

interpretation is definitely not included.

the Conditions of the Contract).

A. Definition: A request seeking one of the following:

rendering unnecessary the issuance of a formal RFI.

1. Prepare a separate RFI for each specific item

a. Use AIA G716 - Request for Information

2. Prepare in a format and with content acceptable to Owner.

any of its consultants, due toprocessing of such RFIs.

3. Discrete and consecutive RFI number, and descriptive subject/title.

number and/or specification section number, title, and paragraph(s).

3. Highlight items requiring priority or expedited response.

follow up with an appropriate Change Order request to Owner.

A. Submit to Architect for review a schedule for submittals in tabular format.

A. When the following are specified in individual sections, submit them for review:

A. When the following are specified in individual sections, submit them for information:

C. Samples will be reviewed for aesthetic, color, or finish selection.

B. Submit for Architect's knowledge as contract administrator or for Owner.

purposes described in Section 017800 - Closeout Submittals.

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

D. Submit for Owner's benefit during and after project completion.

Coordinate with Contractor's construction schedule and schedule of values.

information), description of item of work covered, and role and name of subcontractor.

2. Format schedule to allow tracking of status of submittals throughout duration of construction.

original RFI, identified as specified above.

G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.

4. Highlight items for which a timely response has not been received to date.

2. Note dates of when each request is made, and when a response is received.

1. Indicate current status of every RFI. Update log promptly and on a regular basis.

2. Owner's, Architect's, and Contractor's names.

4. Issue date, and requested reply date.

progress meeting minutes.

3.09 SUBMITTAL SCHEDULE

review deadline dates.

3.10 SUBMITTALS FOR REVIEW

1. Product data.

in Contract Documents.

Design data.

2. Certificates.

3. Test reports.

4. Inspection reports.

5. Manufacturer's instructions.

6. Manufacturer's field reports.

3.12 SUBMITTALS FOR PROJECT CLOSEOUT

7. Other types indicated.

017800 - Closeout Submittals:

Warranties.

Bonds.

Project record documents.

5. Other types as indicated.

2. Operation and maintenance data.

2. Shop drawings.

Samples for selection.

4. Samples for verification.

3.11 SUBMITTALS FOR INFORMATION

PDF file per submittal.

3.07 COORDINATION DRAWINGS

Excavations in progress.

E. Views:

general outline for remainder of work.

3.06 PROGRESS PHOTOGRAPHS

those affected by decisions made.

3. Field observations, problems, and decisions.

6. Review of RFIs log and status of responses.

11. Maintenance of quality and work standards.

5. Review of submittals schedule and status of submittals.

7. Review of off-site fabrication and delivery schedules.

9. Corrective measures to regain projected schedules.

10. Planned progress during succeeding work period.

D. Within 10 days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

3. Foundations in progress and upon completion.

6. Final completion, minimum of ten (10) photos.

5. Enclosure of building, upon completion.

4. Structural framing in progress and upon completion.

2. Consult with Architect for instructions on views required.

4. Identification of problems that impede, or will impede, planned progress.

12. Effect of proposed changes on progress schedule and coordination.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

D. In addition to periodic, recurring views, take photographs of each of the following events:

2. File Naming: Include project identification, date and time of view, and view identification.

timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.

3. Prepare using software provided by the Electronic Document Submittal Service.

a. Approval of submittals (use procedures specified elsewhere in this section).

b. Approval of substitutions (see Section - 016000 - Product Requirements)

2. Unacceptable Uses for RFIs: Do not use RFIs to request the following::

b. Do not forward requests which solely require internal coordination between subcontractors.

render an actionable response. They will be returned without a response, with an explanatory notation.

6. Annotations: Field dimensions and/or description of conditions which have engendered the request.

applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum

C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

1. Include written certification that major contractors have reviewed and accepted proposed schedule.

Major subcontractors.

2. Review of work progress.

3.04 PROGRESS MEETINGS

C. Attendance Required:

Contractor.

Owner.

D. Agenda:

3. Architect.

5. Survey and building layout.

B. Attendance Required:

1. Contractor.

2. Owner.

3. Architect.

. Agenda:

A. Project Coordinator will schedule meeting at the Project site prior to Contractor occupancy.

12. Inspection and acceptance of equipment put into service during construction period.

A. Schedule and administer meetings throughout progress of the work at maximum bi-monthly intervals.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

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D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and
 E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and
A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a
A. Submit photographs with each application for payment, taken not more than 3 days prior to submission of application for payment.
 C. Provide photographs of site and construction throughout progress of work produced by an experienced photographer, acceptable to
     1. Provide non-aerial photographs from four cardinal views at each specified time, until date of Substantial Completion.
     4. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.
  F. Digital Photographs: 24 bit color, minimum resolution of 1024 by 768, in JPG format; provide files unaltered by photo editing software.
     3. Point of View Sketch: Include digital copy of point of view sketch with each electronic submittal; include point of view identification in
      4. PDF File: Assemble all photos into printable pages in PDF format, with 2 to 3 photos per page, each photo labeled with file name; one
     1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from
     them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space
     (interference); or when an item of work is described differently at more than one place in Contract Documents
B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes,
 C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a
         a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
 D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their
      1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information
         c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
         d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of
      3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to
     4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no
     additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
        a. The Owner reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect, and
 E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
      1. Official Project name and number, and any additional required identifiers established in Contract Documents.
     5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail
     7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination
     issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If
  F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate
 H. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing
 the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following
     1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in
  I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the
  project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and
     1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered,
     and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
     2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the
     3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
     4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the
     3. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for
     4. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and
        a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work,
              allow for additional time to make corrections or revisions to initial submittals, and time for their review.
   3. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed
 D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents
                                                                                                                                                          B. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.
 C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section
                                                                                                                                                           C. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for
                                                                                                                                                           preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-
                                                                                                                                                           used materials or equipment.
                                                                                                                                                          D. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the
                                                                                                                                                           specifications.
                                                                                                                                                           E. Provide: To furnish and install.
                                                                                                                                                          F. Supply: Same as Furnish.
                                                                                                                                                      PART 2 PRODUCTS - NOT USED
                                                                                                                                                      PART 3 EXECUTION - NOT USED
                                                                                                                                                      END OF SECTION 014216
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3.13 NUMBER OF COPIES OF SUBMITTALS A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected. B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect. 1. After review, produce duplicates. 2. Retained samples will not be returned to Contractor unless specifically so stated. 3.14 SUBMITTAL PROCEDURES A. General Requirements: 1. Use a single transmittal for related items. 2. Submit separate packages of submittals for review and submittals for information, when included in the same specification section. a. Use Form AIA G810. 4. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix. 5. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy. 6. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents. a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned. 7. Deliver each submittal on date noted in submittal schedule, unless an earlier date has been agreed to by all affected parties, and is of the benefit to the project. a. Upload submittals in electronic form to Electronic Document Submittal Service website. 8. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work. 9. Provide space for Contractor and Architect review stamps. 10. When revised for resubmission, identify all changes made since previous submission. 11. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements. 12. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use. 13. Submittals not requested will not be recognized or processed. B. Product Data Procedures: 1. Submit only information required by individual specification sections. 2. Collect required information into a single submittal. 3. Do not submit (Material) Safety Data Sheets for materials or products. C. Shop Drawing Procedures: 1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related 2. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings. D. Samples Procedures: 1. Transmit related items together as single package. 2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations. 3.15 SUBMITTAL REVIEW A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action. B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken. C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals. 1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet. D. Architect's and consultants' actions on items submitted for review: 1. Authorizing purchasing, fabrication, delivery, and installation: a. "Approved", or language with same legal meaning. b. "Approved as Noted, Resubmission not required", or language with same legal meaning. 1) At Contractor's option, submit corrected item, with review notations acknowledged and incorporated. c. "Approved as Noted, Resubmit for Record", or language with same legal meaning. 1) Resubmit corrected item, with review notations acknowledged and incorporated. Resubmit separately, or as part of project record documents. 2) Non-responsive resubmittals may be rejected. 2. Not Authorizing fabrication, delivery, and installation: a. "Revise and Resubmit". 1) Resubmit revised item, with review notations acknowledged and incorporated. 2) Non-responsive resubmittals may be rejected. 1) Submit item complying with requirements of Contract Documents. E. Architect's and consultants' actions on items submitted for information: 1. Items for which no action was taken: a. "Received" - to notify the Contractor that the submittal has been received for record only. 2. Items for which action was taken: a. "Reviewed" - no further action is required from Contractor. END OF SECTION 013000 SECTION 013216 CONSTRUCTION PROGRESS SCHEDULE PART 1 GENERAL 1.01 SECTION INCLUDES A. Preliminary schedule. B. Construction progress schedule, with network analysis diagrams and reports. 1.02 SUBMITTALS A. Within 10 days after date of Agreement, submit preliminary schedule. B. If preliminary schedule requires revision after review, submit revised schedule within 10 days. C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review. D. Within 10 days after joint review, submit complete schedule. E. Submit updated schedule with each Application for Payment. F. Submit in PDF format. G. Submit under transmittal letter form specified in Section 013000 - Administrative Requirements. 1.03 SCHEDULE FORMAT A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section B. Scale and Spacing: To allow for notations and revisions. PART 2 PRODUCTS - NOT USED PART 3 EXECUTION 3.01 PRELIMINARY SCHEDULE A. Prepare preliminary schedule in the form of a preliminary network diagram. 3.02 CONTENT A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction. B. Identify each item by specification section number. 0 C. Identify work of separate stages and other logically grouped activities. D. Include conferences and meetings in schedule. E. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month. F. Provide legend for symbols and abbreviations used. 3.03 NETWORK ANALYSIS A. Prepare network analysis diagrams and supporting mathematical analyses using the Critical Path Method (CPM). B. Illustrate order and interdependence of activities and sequence of work; how start of a given activity depends on completion of preceding activities, and how completion of the activity may restrain start of subsequent activities. C. Mathematical Analysis: Tabulate each activity of detailed network diagrams, using calendar dates, and identify for each activity: 1. Preceding and following event numbers. 2. Activity description. 3. Estimated duration of activity, in maximum 15 day intervals. 4. Earliest start date. Earliest finish date. 6. Actual start date. 7. Actual finish date. 8. Latest start date. Latest finish date. 10. Total and free float; float time shall accrue to Owner and to Owner's benefit. 11. Monetary value of activity, keyed to Schedule of Values. 12. Percentage of activity completed. 13. Responsibility. 14. Long lead items with start and finish dates. D. Analysis Program: Capable of compiling monetary value of completed and partially completed activities, accepting revised completion dates, and recomputation of all dates and float. E. Procurement: Include separate procurement activities for the following long lead-time items and for major items that require more than 60 days including, but not limited to, submittals, approvals, purchasing, fabrication, delivery, and installation. F. Required Reports: List activities in sorts or groups: 1. By preceding work item or event number from lowest to highest. 2. By amount of float, then in order of early start. 3.04 REVIEW AND EVALUATION OF SCHEDULÉ A. Participate in joint review and evaluation of schedule with Architect at each submittal. B. Evaluate project status to determine work behind schedule and work ahead of schedule. C. After review, revise as necessary as result of review, and resubmit within 10 days. 3.05 UPDATING SCHEDULE A. Maintain schedules to record actual start and finish dates of completed activities. B. Indicate progress of each activity to date of revision, with projected completion date of each activity. C. Annotate diagrams to graphically depict current status of Work. D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes. E. Indicate changes required to maintain Date of Substantial Completion. F. Submit reports required to support recommended changes. 3.06 DISTRIBUTION OF SCHEDULE A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned No. DATE B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules END OF SECTION 013216 **SECTION 014000 QUALITY REQUIREMENTS** PART 1 GENERAL CONTRACTOR'S DESIGN-RELATED PROFESSIONAL DESIGN SERVICES 1. Coordination: Contractor's professional design services are subject to requirements of project's Conditions for Construction 2. Base design on performance and/or design criteria indicated in individual specification sections. SUBMITTALS 1. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information. 2. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor. 1. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located. TESTING AND INSPECTION AGENCIES AND SERVICES 1. Contractor shall employ and pay for services of an independent testing agency to perform specified services and testing. 2. If required for th Project, the Owner will retain the services of a qualified licensed Architect or Engineer to serve as "Special Inspector(s)" to perform inspections pursuant to the Statement of Special Inspections in the Contract Documents. Approved "Special Inspector(s)" shall provide testing and verification reports to the Owner, Architect, building official, and structural engineer of record which indicate the inspected work was done in conformance with approved Construction Documents. PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED END OF SECTION 014000 SECTION 014100 REGULATORY REQUIREMENTS PART 1 GENERAL 1.01 SUMMARY OF REFERENCE STANDARDS A. Regulatory requirements applicable to this project are the following: As indicated on Drawings B. 29 CFR 1910 - Occupational Safety and Health Standards; Current Edition. PART 2 PRODUCTS - NOT USED Date PART 3 EXECUTION - NOT USED 08/01/2025 END OF SECTION 014100 Sheet Title SECTION 014216 DEFINITIONS PART 1 GENERAL 1.01 SUMMARY A. Other definitions are included in individual specification sections. 1.02 DEFINITIONS A. Furnish: To supply, deliver, unload, and inspect for damage.

208 Pirkle Ferry Road, Suite C Cumming, GA 30040





PRINT RECORD DESCRIPTION

Checked By Drawn By JDG Job No. 25018

SPECIFICATIONS

Sheet No.

Sonya M. Whetstone Final Approval Subject to Field Inspec

H. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

J. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work

Order as a separate line item and adjust the Contract Sum.

K. Promptly enter changes in Project Record Documents.

affected by the change, and resubmit.

I. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in

A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and

D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other

1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations;

E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

G. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or

C. Examine and verify specific conditions described in individual specification sections.

B. Seal cracks or openings of substrate prior to applying next material or substance.

B. Require attendance of parties directly affecting, or affected by, work of the specific section.

3. Building foundation, column locations, ground floor elevations, and _____.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated. E. Make neat transitions between different surfaces, maintaining texture and appearance.

I. Maintain a complete and accurate log of control and survey work as it progresses.

A. Clean substrate surfaces prior to applying next material or substance.

C. Notify Architect four days in advance of meeting date.

A. Verify locations of survey control points prior to starting work.

B. Promptly notify Architect of any discrepancies discovered.

D. Prepare agenda and preside at meeting:

2. Review coordination with related work.

F. Utilize recognized engineering survey practices.

H. Periodically verify layouts by same means.

3.05 GENERAL INSTALLATION REQUIREMENTS

avoid waste due to necessity for replacement.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

3.06 CUTTING AND PATCHING 1. Complete the work. 3.07 REPAIR OF THE WORK to required labels and identification. 3.08 PROGRESS CLEANING sheet materials. 3.10 ADJUSTING soil or stains remain. matter upon inspection. a. List spaces in sequential order starting with exterior areas and then proceeding from lowest floor to highest floor. b. Organize items in each space by major element including, but not limited to, ceiling, individual walls, floors, equipment, and building systems. c. Include the following at the top of each page: 1) Project name. Project number. 3) Date of list. 4) Name of Architect. 5) Name of Contractor 6) Page number d. Submit list of incomplete items in MS Excel electronic file format. Architect will return annotated file. 3.13 SUBSTANTIAL COMPLETION PROCEDURES A. Request for Substantial Completion Inspection: Minimum 10 days prior to submitting request for inspection to determine date of Substantial Completion, submit the following that are incomplete: 1. Certificates of Release: Releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities, occupancy permits operating certificates, and similar releases. 2. Closeout Submittals: Including, but not limited to, the following: a. Project record documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information. b. Warranties, workmanship bonds, maintenance service agreements, final certifications, and similar information.

locations indicated.

a. Schedule of Maintenance Materials.

Substantial Completion, submit the following that are incomplete:

7. Advising Owner of changeover in utility services.

10. Completion of final cleaning requirements.

1. Advising Owner of pending insurance changeover requirements.

3. Advising Owner's personnel of changeover insecurity provisions.

4. Completion of startup and testing of systems and equipment.

list of items identified to be completed or corrected and submit to Architect.

1. Indicate value of each item and reasons why work is incomplete.

2. Final changeover of permanent locks and delivery of keys to Owner.

5. Preventive maintenance of equipment used prior to Substantial Completion.

8. Conduct inspection and walkthrough with Owner and local emergency responders.

9. Termination and removal of temporary facilities, mockups, construction tools, and similar elements.

6. Changeover information related to Owner occupancy, use, operation, and maintenance.

4. Testing, adjusting, and balancing records.

Sustainable design submittals

A. Whenever possible, execute the work by methods that avoid cutting or patching. B. Perform whatever cutting and patching is necessary to: 2. Fit products together to integrate with other work. 3. Provide openings for penetration of mechanical, electrical, and other services. 4. Match work that has been cut to adjacent work. 5. Repair areas adjacent to cuts to required condition. 6. Repair new work damaged by subsequent work. 7. Remove samples of installed work for testing when requested. 8. Remove and replace defective and non-complying work. C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition. D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces. E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval. F. Restore work with new products in accordance with requirements of Contract Documents. G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces. H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 078400, to full thickness of the penetrated element. 1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit. 2. Match color, texture, and appearance. 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish. A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion. B. Repair or remove and replace, defective construction C. Repair includes, but is not limited to, replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and D. Where damaged or worn items cannot be repaired or restored, provide replacements Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition. E. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials. F. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that show evidence of G. Do not paint over "UL" and other required labels and identification including mechanical and electrical nameplates. Remove paint applied H. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity I. Replace burned-out lamps, lamps noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface(s) to be cleaned. 1. Do not use cleaning agent that are potentially hazardous to health or property or that might damage finished surfaces. B. Employ experienced workers or professional cleaners for final cleaning. 1. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. 2. Comply with manufacturer's written instructions. C. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition. D. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the E. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust. F. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury. 3.09 PROTECTION OF INSTALLED WORK A. Protect installed work from damage by construction operations. B. Provide special protection where specified in individual specification sections. C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage. D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings. E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer. G. Remove protective coverings when no longer needed; reuse or recycle coverings if possible. A. Adjust operating products and equipment to ensure smooth and unhindered operation. A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface(s) to be cleaned. 1. Do not use cleaning agent that are potentially hazardous to health or property or that might damage finished surfaces. B. Clean Project site, yard, and grounds, in areas disturbed by construction activities including landsape development areas of rubish, waste material, litter, and other foreign substances. C. Paved Areas: Sweep paved areas broom clean and remove petrochemical spills, stains, and other foreign deposits. D. Rake grounds that are not planted, mulched, or paved to a smooth, even-textured surface. E. Remove tools, construction equipment, machinery, and surplus material from Project site. F. Remove snow and ice to provide safe access to building. G. Clean exposed exterior and interior, hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. H. Avoid disturbing natural weathering of exterior surfaces. I. Restore reflective surfaces to their original condition. J. Remove debris and surface dust from limited access spaces including, but not limited to, roofs, plenums, shafts, trenches, equipment vaults manholes attics and similar spaces K. Sweet concrete floors broom clean in unoccupied spaces. L. Vacuum carpet and similar soft surfaces to remove debris and excess nap. Clean according to manufacturer's recommendations if visible M. Clean transparent materials including mirrors and glass in doors and windows. 1. Remove glazing compounds and other noticeable, vision-obscuring materials. 2. Polish mirrors and glass taking care not to scratch surfaces. N. Remove labels that are not permanent. O. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. 1. Remove excess lubrication, paint and mortar droppings, and other foreign substances. P. Clean plumbing fixtures to a sanitary condition, free of stains including stains resulting from water exposure. Q. Replace disposable air filters and clean permanent air filters. R. Clean exposed surfaces of diffusers, registers, and grills. S. Clean ducts, blowers, and coils if units were operated without filters furing construction or that display contamination with particulate T. Clean luminaires, lamps, globes, and reflectors to function with full efficiency. U. Leave Project clean and ready for occupancy. V. Construction Waste Disposal: Comply with waste disposal requirements in 017419 -Construction Waste Management and Disposal. 3.12 CONTRACTOR'S LIST OF INCOMPLETE ITEMS (PUNCH LIST) A. List of Incomplete Items (Punch List): Prepare and submit list of items to be completed and corrected indicating the value of each item on the list and reason(s) why the work is incomplete. 1. Organization of Llst: Include name and identification of each space and area affected by construction operations, incomplete items and items needing correction. Including areas disturbed by Contractor that are outside the limits of construction.

1. Burning on the project site. 2. Burying on the project site. 3. Dumping or burying on other property, public or private. 4. Other illegal dumping or burying. F. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials. 1.02 DEFINITIONS A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like. B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations. C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity. D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity. E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure. F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others. H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste. I. Return: To give back reusable items or unused products to vendors for credit. J. Reuse: To reuse a construction waste material in some manner on the project site. K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others. L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water. M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste. N. Toxic: Poisonous to humans either immediately or after a long period of exposure. O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged. P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material. 1.03 SUBMITTALS A. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report. 1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment. 2. Submit Report on a form acceptable to Owner. 3. Landfill Disposal: Include the following information: a. Identification of material. b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project disposed of in landfills. c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost. d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost. 4. Incinerator Disposal: Include the following information: a. Identification of material. b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project delivered to incinerators. c. State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost. d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost. 5. Recycled and Salvaged Materials: Include the following information for each: a. Identification of material, including those retrieved by installer for use on other projects. b. Amount, in tons or cubic yards (cubic meters), date removed from the project site, and receiving party. c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost. e. Certification by receiving party that materials will not be disposed of in landfills or by incineration. 6. Material Reused on Project: Include the following information for each: a. Identification of material and how it was used in the project. b. Amount, in tons or cubic yards (cubic meters). c. Include weight tickets as evidence of quantity. 7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method. PART 2 PRODUCTS - NOT USED PART 3 EXECUTION 3.01 WASTE MANAGEMENT PROCEDURES A. See Section 013000 for additional requirements for project meetings, reports, submittal procedures, and project documentation. B. See Section 015000 for additional requirements related to trash/waste collection and removal facilities and services. C. See Section 016000 for waste prevention requirements related to delivery, storage, and handling D. See Section 017000 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and 3.02 WASTE MANAGEMENT PLAN IMPLEMENTATION A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan. B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, Owner, and Architect. C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project. D. Meetings: Discuss trash/waste management goals and issues at project meetings. 1. Prebid meeting. 2. Preconstruction meeting. Regular job-site meetings E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers. 1. Provide containers as required. 2. Provide adequate space for pick-up and delivery and convenience to subcontractors. 3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials. F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations. G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of to prevent contamination of recyclable materials. H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse. I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site. END OF SECTION 017419

PART 1 GENERAL

materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order SECTION 017610 TEMPORARY PROTECTIVE COVERINGS

PART 1 GENERAL 1.01 SECTION INCLUDES A. Temporary protective coverings for installedfloors, walls, and other surfaces. 1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023. 1.03 SUBMITTALS A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes available; and installation instructions B. Shop Drawings: Indicate existing finished surfaces to be protected. PART 2 PRODUCTS 2.01 GENERAL

A. Provide materials that are easily removed without damage to the surfaces covered and with the following characteristics: Water resistant. 2. Flame retardant 2.02 MATERIALS A. Sheet Materials: 1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in

accordance with ASTM E84. B. Rolled Materials: 1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84. C. Corner and Door Jamb Protection Materials: 1. Cardboard, shaped specifically for application. D. Tape: Type recommended by protective covering material manufacturer.

1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed

1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents

3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance,

2. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final

inspection, with Architect comments. Revise content of all document sets as required prior to final submission.

2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:

A. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete

B. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow

Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating

3.02 INSTALLATION A. Install in accordance with manufacturer's instructions. B. Trim or overlap sheet materials to fit area to be covered. C. Roll out and cut rolled materials to fit area to be covered. D. Tape seams. Avoid taping directly to finished surfaces. E. Install door jamb protection to full height of opening. 3.03 REMOVAL

A. Remove dirt and debris from surfaces to be protected.

SECTION 017800 CLOSEOUT SUBMITTALS

A. Substantial Completion procedures.

D. Operation and maintenance data.

F. Operation and Maintenance Data:

B. Final Completion procedures.

C. Project record documents.

E. Warranties and bonds.

H. Warranties and Bonds:

PART 2 PRODUCTS - NOT USED

Specifications.

inapplicable information.

Addenda.

3.01 PROJECT RECORD DOCUMENTS

PART 3 EXECUTION

3.01 PREPARATION

PART 1 GENERAL

1.02 SUBMITTALS

1.01 SECTION INCLUDES

A. Remove protective coverings prior to Date of Substantial Completion. Reuse or recycle materials if possible. END OF SECTION 017610

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.

3. Submit two sets of revised final documents in final form within 10 days after final inspection.

A. Maintain on site one set of the following record documents; record actual revisions to the Work:

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

listing the date of acceptance as the beginning of the warranty period.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

F. Record Drawings: Legibly mark each item to record actual construction including:

C. Store record documents separate from documents used for construction.

diagrams. Do not use Project Record Documents as maintenance drawings.

4. Change Orders and other modifications to the Contract.

D. Record information concurrent with construction progress.

1. Changes made by Addenda and modifications.

1. Field changes of dimension and detail.

3.02 OPERATION AND MAINTENANCE DATA

2. Details not on original Contract drawings.

C. Certified List of Incomplete Items: Final submittal at Final Completion.

D. Certificates of Release: From authorities having jurisdiction.

E. Certificate of Insurance: For continuing coverage.

documents within ten days after acceptance.

G. Field Report: For pest control inspection.

within 10 days after acceptance

11. Touch up paint and repair and restore marred, exposed finishes to eliminate visual defects. . Substantial Completion Inspection: Minimum 10 days prior to date of work will be completed and ready for final inspection and tests, submit a written request for inspection to determine Substantial Completion. 1. Upon receipt of request, Architect will either proceed with inspection or notify Contractor of incomplete items. 2. After inspection, Architect will prepare the Certificate of Substantial Completion or will notify Contractor of incomplete items either on the Contractor's list or additional items identified by Architect that must be completed or corrected before Certificate will be issued. a. Request reinspection when the work identified in previous inspections as incomplete is completed of corrected. b. Results of completed inspection will be the basis of requirements for final completion. D. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive

3.14 FINAL COMPLETION PROCEDURES A. Request for Final Completion Inspection: Prior to submitting request for inspection to determine date of Final Completion, submit the 2. Final Correction Punch List: Certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected

3. Maintenance Materials Submittals: Including, but not limited to, tools, spare parts, extra materials, and similar items, delivered to

B. Request for Substantial Completion Inspection: Minimum 10 days prior to submitting request for inspection to determine date of

6. Instruction and training of Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.

(punch list), endorsed and dated by Architect stating that each item has been completed or otherwise resolved for acceptance. 3. Certificate of Insurance: Evidence of final, continuing insurance coverage complying with in insurance requirements. 4. Pest control final inspection report. 5. Final completion photographic documentation. B. Final Completion Inspection: Minimum 10 days prior to date the Work will be complete and ready for final inspection and testing, submitt a request for inspection to determine date of final inspection to determine acceptance. 1. Upon receipt of request, Architect will either proceed with inspection or notify Contractor of incomplete items 2. After inspection, Architect will prepare the Certificate for Payment or will notify Contractor of items that must be completed or corrected

before Certificate will be issued. a. Request reinspection when the work identified in previous inspections as incomplete or uncorrected is complete or corrected 3.15 CLOSEOUT PROCEDURES A. Make submittals that are required by governing or other authorities. B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion. C. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.

D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection. E. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas. F. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection. G. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion. 3.16 MAINTENANCE A. Provide service and maintenance of components indicated in specification sections. B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial

Completion or the length of the specified warranty, whichever is longer. C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required. D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component. E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

SECTION 017419 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL 3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES A. For Each Product, Applied Material, and Finish: 1.01 WASTE MANAGEMENT REQUIREMENTS A. Owner requires that this project generate the least amount of trash and waste possible. B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible. D. Contractor Reporting Responsibilities: Submit periodic Waste Disposal Reports; report landfill disposal, incineration, recycling, salvage, and reuse regardless of to whom the cost or savings accrues; use the same units of measure on required reports. E. Methods of trash/waste disposal that are not acceptable are:

and details of installation. Provide recommendations for inspections, maintenance, and repair. D. Additional information as specified in individual product specification sections. E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products. 3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS A. For Each Item of Equipment and Each System: 1. Description of unit or system, and component parts. 2. Identify function, normal operating characteristics, and limiting conditions. 3. Include performance curves, with engineering data and tests. 4. Complete nomenclature and model number of replaceable parts. B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products. C. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed. D. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions. E. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions. 1. Include HVAC outdoor and exhaust air damper calibration strategy. a. Include provisions which ensure that full closure of dampers can be achieved. F. Provide servicing and lubrication schedule, and list of lubricants required. G. Include manufacturer's printed operation and maintenance instructions. H. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance. 3.05 WARRANTIES AND BONDS A. Submit written warranties and bonds as required in individual Sections and indicated to commence on dates other than the date of Substantial Completion or when delay in submittal of warranties might limit Owner's rights under warranty. B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor. C. Verify that documents are in proper form, contain full information, and are notarized. D. Retain warranties and bonds until time specified for submittal. E. Organization: Orderly sequence based on the Table of Contents in the Project Manual. F. Format: 1. Electronic File: PDF format a. Provide single, electronis PDF file with bookmarks to enable navigation to each item. b. Provide bookmarked table of contents at beginning of file. 2. Paper Warranties: a. Manual: Bind in commercial quality 8-1/2 by 11 inch (216 by 279 mm) three D side ring binders with durable plastic covers. b. Cover: Identify each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of Contractor and equipment supplier; and name of responsible company principal. c. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item. d. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal. END OF SECTION 017800 SECTION 017900 DEMONSTRATION AND TRAINING PART 1 GENERAL 1.01 SUMMARY A. Demonstration of products and systems to be commissioned and where indicated in specific specification sections. B. Training of Owner personnel in operation and maintenance is required for: All software-operated systems HVAC systems and equipment. Plumbing equipment. 4. Electrical systems and equipment. C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for: . Roofing, waterproofing, and other weather-exposed or moisture protection products. Items specified in individual product Sections. 1.02 SUBMITTALS A. See Section 013000 - Administrative Requirements, for submittal procedures; except: 1. Make all submittals specified in this section, and elsewhere where indicated for commissioning purposes, directly to the Commissioning Authority. 2. Submit one copy to the Commissioning Authority, not to be returned. B. Draft Training Plans: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees. 1. Submit to Commissioning Authority for review and inclusion in overall training plan. Submit not less than four weeks prior to start of training. . Revise and resubmit until acceptable. 4. Provide an overall schedule showing all training sessions. 5. Include at least the following for each training session: Identification, date, time, and duration. Description of products and/or systems to be covered. Name of firm and person conducting training; include qualifications. d. Intended audience, such as job description. e. Objectives of training and suggested methods of ensuring adequate training. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc. Media to be used, such a slides, hand-outs, etc Training equipment required, such as projector, projection screen, etc., to be provided by Contractor. C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session. . Include applicable portion of O&M manuals. Include copies of all hand-outs, slides, video presentations, etc., that are not included in O&M manuals. Provide one extra copy of each training manual to be included with operation and maintenance data. D. Training Reports: 1. Identification of each training session, date, time, and duration. Sign-in sheet showing names and job titles of attendees. 3. List of attendee questions and written answers given, including copies of and references to supporting documentation required for clarification; include answers to questions that could not be answered in original training session. 4. Include Commissioning Authority's formal acceptance of training session. 1.03 QUALITY ASSURANCE A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems. 1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems 2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications. PART 2 PRODUCTS - NOT USED PART 3 EXECUTION 3.01 DEMONSTRATION - GENERAL A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in B. Demonstrations conducted during Functional Testing need not be repeated unless Owner personnel training is specified. . Demonstration may be combined with Owner personnel training if applicable. D. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance. Perform demonstrations not less than two weeks prior to Substantial Completion 2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months. E. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures. 1. Perform demonstrations not less than two weeks prior to Substantial Completion. 3.02 TRAINING - GENERAL A. Conduct training on-site unless otherwise indicated. B. Owner will provide classroom and seating at no cost to Contractor. C. Do not start training until Functional Testing is complete, unless otherwise specified or approved by the Commissioning Authority. Provide training in minimum two hour segments. Contractor shall video tape all training sessions and provide the recording flies to the Owner. F. The Commissioning Authority is responsible for determining that the training was satisfactorily completed and will provide approval G. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; H. Review of Facility Policy on Operation and Maintenance Data: During training discuss: 1. The location of the O&M manuals and procedures for use and preservation; backup copies. 2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific 3. Typical uses of the O&M manuals. . Product- and System-Specific Training: . Review the applicable O&M manuals. . For systems, provide an overview of system operation, design parameters and constraints, and operational strategies. 3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance. Provide hands-on training on all operational modes possible and preventive maintenance. . Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures. 6. Discuss common troubleshooting problems and solutions. Discuss any peculiarities of equipment installation or operation. 8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage. 9. Review recommended tools and spare parts inventory suggestions of manufacturers. 10. Review spare parts and tools required to be furnished by Contractor.

1. Product data, with catalog number, size, composition, and color and texture designations.

detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against

C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition,

once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor

within three days END OF SECTION 017900 SECTION 020342 REMOVAL AND SALVAGE OF PERIOD CONSTRUCTION MATERIALS PART 2 PRODUCTS (NOT USED)

11. Review spare parts suppliers and sources and procurement procedures.

PART 3 EXECUTION 2.01 PERIOD TREATMENT, GENERAL A. See Section 013591 for special procedure requirements related to elements and features of historical significance and value. 2.02 GENERAL PROCEDURES A. Drawings indicating existing construction, building services, and site utilities are based on casual field observation and existing record documents only. 1. Report discrepancies to Architect before disturbing existing historic elements.

J. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response

2. Beginning of work constitutes acceptance of existing conditions that are apparent upon examination at that time. B. Separate spaces in which removals and salvage operations are conducted from occupied spaces. 1. Provide, erect, and maintain temporary dustproof partitions; see Section 015000. 2.03 ENVIRONMENTAL CONTROLS

A. Comply with federal, state, and local regulations pertaining to water, air, solid waste, recycling, chemical waste, sanitary waste, sediment, and noise pollution. 2.04 ITEMS TO BE SALVAGED A. General: Salvage elements and components to the maximum extent possible. Maintain a chain of custody of salvaged materials, including the condition of such materials before and after salvage operations.

A. Remove existing nonhistoric elements as indicated and as required to allow direct access to period construction elements indicated to be restored or salvaged for reuse. B. Protect existing historic elements. 1. Prevent movement of structure; provide temporary, removable shoring and bracing if necessary.

2. Perform cutting to accomplish removals neatly, minimizing overcutting. 2.06 MATERIALS TO BE RECYCLED

A. Recycle removed nonhistoric materials to the maximum extent possible. Remove recyclable materials by hand wherever possible. B. Recycle items indicated on drawings. END OF SECTION 020342

208 Pirkle Ferry Road, Suite C Cumming, GA 30040



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PRINT RECORD		
No.	DATE	DESCRIPTION
Draw	n By	Checked By
JDG		JDG
Date		Job No.
08/01/20		25018

Sheet No. Final Approval Subject to Field Inspect

Sheet Title

SPECIFICATIONS

Requirements.

PART 3 EXECUTION

3.02 PREPARATION

acceptance of existing conditions.

3.03 PREINSTALLATION MEETINGS

those affected by decisions made.

2. Grid or axis for structures.

3.04 LAYING OUT THE WORK

3 01 FXAMINATION

2. Provide sound retardant partitions of construction and in locations indicated on drawings.

C. Maintain weatherproof exterior building enclosure, except for interruptions required for replacement or modifications; prevent water and

D. Remove existing work as indicated and required to accomplish new work. 1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction indicated. 2. Remove items indicated on drawings. E. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated. 1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components. 2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service. B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or 3. Verify that abandoned services serve only abandoned facilities before removal. C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and 4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification. F. Protect existing work to remain. D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse 1. Prevent movement of structure. Provide shoring and bracing as required. 2. Perform cutting to accomplish removal work neatly and as specified for cutting new work. 3. Repair adjacent construction and finishes damaged during removal work. 4. Patch to match new work. 3.05 DEBRIS AND WASTE REMOVAL A. Remove debris, junk, and trash from site. B. Leave site in clean condition, ready for subsequent work. C. Clean up spillage and wind-blown debris from public and private lands. END OF SECTION 024119 SECTION 061053 MISCELLANEOUS ROUGH CARPENTRY PART 1 GENERAL 1.01 SECTION INCLUDES A. Preservative treated wood materials. B. Fire retardant treated wood materials. C. Communications and electrical room mounting boards. D. Concealed wood blocking, nailers, and supports. E. Miscellaneous wood nailers, furring, and grounds. 1.02 REFERENCE STANDARDS A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023. B. ASTM D2898 - Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing; 2010 (Reapproved 2017). C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023. D. AWPA U1 - Use Category System: User Specification for Treated Wood; 2023. E. PS 1 - Structural Plywood; 2019. D. Break up paving within site boundaries to permit natural moisture drainage; leave pieces not larger than 1 square yard (1 square meter). F. PS 20 - American Softwood Lumber Standard; 2021. 1.03 SUBMITTALS A. Product Data: Provide technical data on wood preservative materials and application instructions. 1.04 DELIVERY, STORAGE, AND HANDLING H. Break up concrete slabs on grade within site boundaries to permit natural moisture drainage; leave pieces not larger than 1 square yard (1 A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation. B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, and installation. PART 2 PRODUCTS 2.01 GENERAL REQUIREMENTS A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies. 1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements. 2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless P. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as specified in otherwise indicated 2.02 DIMENSION LUMBER A. Sizes: Nominal sizes as indicated on drawings, S4S. B. Moisture Content: S-dry or MC19. C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring: 1. Lumber: S4S, No.2 or Standard Grade. 2. Boards: Standard or No.3. 4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access 2.03 CONSTRUCTION PANELS A. Communications and Electrical Room Mounting Boards: PS 1, A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84. 2.04 ACCESSORIES A. Fasteners and Anchors: 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere. 2.05 FACTORY WOOD TREATMENT 10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications. 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements. 2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level D. Do not begin removal until vegetation to be relocated has been removed and vegetation to remain has been protected from damage. and type of treatment in accordance with AWPA standards. B. Fire Retardant Treatment: 1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood. b. Treat exterior rough carpentry items. 1. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials c. Do not use treated wood in direct contact with ground. 2. Interior Type A: AWPA U1, Use Category UCFA, Čommodity Specification H, low temperature, low hygroscopic type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood. b. Interior rough carpentry items are to be fire retardant treated. c. Treat rough carpentry items as indicated. d. Do not use treated wood in applications exposed to weather or where the wood may become wet. C. Preservative Treatment: 1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A. A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits a. Kiln dry lumber after treatment to maximum moisture content of 19 percent. 2. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F. a. Kiln dry plywood after treatment to maximum moisture content of 19 percent. E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to PART 3 EXECUTION 3.01 PREPARATION F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to A. Coordinate installation of rough carpentry members specified in other sections. 3.02 INSTALLATION - GENERAL A. Select material sizes to minimize waste. H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone. Identify and mark, in same manner B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking. C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants. 3.03 BLOCKING, NAILERS, AND SUPPORTS A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim. B. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud 3.04 ROOF-RELATED CARPENTRY A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation. B. Provide wood curb at roof openings except where prefabricated curbs are specified and where specifically indicated otherwise. Form corners by alternating lapping side members. 3.05 INSTALLATION OF CONSTRUCTION PANELS A. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches (610 mm) on center on edges and into studs in field of board. 1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly. 2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs. B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or 3. Install adjacent boards without gaps. 4. Size and Location: As indicated on drawings. 3.06 SITE APPLIED WOOD TREATMENT C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and A. Apply preservative treatment compatible with factory applied treatment at site-sawn cuts, complying with manufacturer's instructions. D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse B. Allow preservative to dry prior to erecting members. 3.07 CLEANING A. Waste Disposal: See Section 017419 - Construction Waste Management and Disposal. 1. Comply with applicable regulations. 2. Do not burn scrap on project site. 3. Do not burn scraps that have been pressure treated. 4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities. B. Do not leave wood, shavings, sawdust, etc. on the ground or buried in fill. C. Prevent sawdust and wood shavings from entering the storm drainage system. END OF SECTION 061053 SECTION 064100 ARCHITECTURAL WOOD CASEWORK PART 1 GENERAL 1.01 SECTION INCLUDES A. Specially fabricated cabinet units. B. Hardware. 1.02 REFERENCE STANDARDS A. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022. B. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016). C. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata. D. BHMA A156.9 - Cabinet Hardware; 2020. E. NEMA LD 3 - High-Pressure Decorative Laminates; 2005. 1.03 SUBMITTALS A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories. 1. Scale of Drawings: 1-1/2 inch to 1 foot (125 mm to 1 m), minimum. B. Product Data: Provide data for hardware accessories. C. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches (300 mm) square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish. D. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish. 1.04 QUALITY ASSURANCE A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of 1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project. 2. Single Source Responsibility: Provide and install this work from single fabricator. 1.05 DELIVERY, STORAGE, AND HANDLING A. Protect units from moisture damage. 8. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to 1.06 FIELD CONDITIONS A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy. PART 2 PRODUCTS 2.01 CABINETS A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise. B. Plastic Laminate Faced Cabinets: Custom grade. 1. Finish - Exposed Exterior Surfaces: Decorative laminate. 1. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials 3. Finish - Semi-Exposed Surfaces: Decorative laminate 4. Finish - Concealed Surfaces: Manufacturer's option. 5. Door and Drawer Front Edge Profiles: Square edge with thick applied band. 6. Grained Face Layout for Cabinet and Door Fronts: Flush panel. a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit. 7. Adjustable Shelf Loading: 40 psf (19.5 gm/sq cm). a. Deflection: L/144. 8. Cabinet Style: Flush overlay. 9. Cabinet Doors and Drawer Fronts: Flush style. C. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to 10. Drawer Side Construction: Multiple-dovetailed. 11. Drawer Construction Technique: Dovetail joints. D. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to 2.02 WOOD-BASED COMPONENTS subsequent construction, using substantial barricades if necessary. A. Wood fabricated from old growth timber is not permitted. E. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities. 2.03 PANEL CORE MATERIALS F. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone. Identify and mark, in same manner A. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and as other utilities to remain, utilities to be reconnected. pressure; comply with ANSI A208.2. 3.04 SELECTIVE DEMOLITION FOR ALTERATIONS 1. Grade: 115: moisture resistance: MR10. A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only. 2. Panel Thickness: 1 inch (25.4 mm). 1. Verify construction and utility arrangements are as indicated. 2.04 THERMALLY FUSED LAMINATE PANELS 2. Report discrepancies to Architect before disturbing existing installation. A. Thermally Fused Laminate (TFL): Melamine- or polyester-resin-saturated decorative papers; for fusion to composite wood substrates 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting under heat and pressure. 1. Test in accordance with NEMA LD 3 Section 3. B. Separate areas in which demolition is being conducted from areas that remain occupied. 2. Panel Core Substrate: Particleboard. 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 015000 in locations indicated on Color: White.

2.05 LAMINATE MATERIALS

A. Manufacturers:

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1. Arborite: www.arborite.com/#sle.
     2. Formica Corporation: www.formica.com/#sle.
     3. Panolam Industries International, Inc: www.panolam.com/#sle.
    4. Wilsonart LLC: www.wilsonart.com/#sle.
  . High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
 C. Provide specific types as indicated.
F. Field Quality Control Plan:
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1. Horizontal Surfaces: HGS, 0.048 inch (1.22 mm) nominal thickness, colors as indicated, finish as indicated.
        2. Vertical Surfaces: VGS, 0.028 inch (0.71 mm) nominal thickness, colors as indicated, finish as indicated.
        3. Cabinet Liner: CLS, 0.020 inch (0.51 mm) nominal thickness, colors as indicated, finish as indicated.
        4. Laminate Backer: BKL, 0.020 inch (0.51 mm) nominal thickness, undecorated; for application to concealed backside of panels faced
        with high pressure decorative laminate.
2.06 COUNTERTOPS
  A. Countertops: See Section 123600.
2.07 ACCESSORIES
   A. Adhesive: Type recommended by fabricator to suit application.
   B. Plastic Edge Banding: Extruded PVC, flat shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
        1. Color: As selected by Architect from manufacturer's standard range.
    C. Fasteners: Size and type to suit application.
    D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed
    locations and stainless steel or chrome-plated finish in exposed locations.
     E. Concealed Joint Fasteners: Threaded steel
    F. Grommets: Standard plastic grommets for cut-outs, in color to match adjacent surface.
2.08 HARDWARE
   A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
   B. Metal Z-Shaped Wall Cabinet Support Clips: Paired, cleated, structural anchorage components applied to back of cabinets and walls for
    wall cabinet mounting.
       1. Material: Extruded Aluminum.
       Products:
            a. Eagle Mouldings, Inc; Eagle Z-Clips: www.eagle-aluminum.com/#sle.
     C. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards and coordinated self rests, polished
     chrome finish, for nominal 1 inch (25 mm) spacing adjustments.
     D. Drawer and Door Pulls: TO BE MOCKETT DP55A STAINLESS STEEL OR APPROVED EQUALS, must be ADA compliant.
    E. Drawer Slides:
        1. Type: Full extension.
        2. Static Load Capacity: Commercial grade, heavy duty.
        3. Mounting: Side mounted.
        4. Stops: Integral type.
        5. Features: Provide self closing/stay closed type.
        Manufacturers:
           a. Accuride International, Inc: www.accuride.com/#sle.
            b. Blum, Inc: www.blum.com/#sle.
            c. Grass America Inc: www.grassusa.com/#sle.
            d. Hettich America, LP: www.hettich.com/#sle.
            e. Knape & Vogt Manufacturing Company: www.knapeandvogt.com/#sle.
            f. Sugatsune America. Inc: www.sugatsune.com/#sle.
     F. Hinges: European style concealed self-closing type, steel with nickel-plated finish.
        1. Manufacturers:
            a. Blum. Inc: www.blum.com/#sle.
            b. Grass America Inc: www.grassusa.com/#sle.
            c. Hettich America, LP: www.hettich.com/#sle.
            d. Sugatsune America, Inc: www.sugatsune.com/#sle.
2.09 FABRICATION
   A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
   B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
   C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and
    D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints
    hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. (Locate
    counter butt joints minimum 600 mm from sink cut-outs.)
       1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
       2. Cap exposed plastic laminate finish edges with plastic trim.
    E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches (400 mm) on center.
   F. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
PART 3 EXECUTION
3.01 EXAMINATION
   A. Verify adequacy of backing and support framing.
   B. Verify location and sizes of utility rough-in associated with work of this section.
3.02 INSTALLATION
   A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
   B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
    C. Use fixture attachments in concealed locations for wall mounted components.
     D. Use concealed joint fasteners to align and secure adjoining cabinet units.
     E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (0.79 mm). Do not use additional overlay trim for
    this purpose.
    F. Secure cabinets to floor using appropriate angles and anchorages.
    G. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush
    with surrounding surfaces.
3.03 ADJUSTING
   A. Test installed work for rigidity and ability to support loads.
   B. Adjust moving or operating parts to function smoothly and correctly.
3.04 CLEANING
  A. Clean casework, counters, shelves, hardware, fittings, and fixtures.
END OF SECTION 064100
SECTION 079200 JOINT SEALANTS
PART 1 GENERAL
1.01 SECTION INCLUDES
  A. Nonsag gunnable joint sealants.
   B. Self-leveling pourable joint sealants.
    C. Joint backings and accessories.
    D. Owner-provided field quality control.
1.02 REFERENCE STANDARDS
  A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015
(Reapproved 2022).
  B. ASTM C834 - Standard Specification for Latex Sealants; 2017 (Reapproved 2023).
    C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
   D. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).
    E. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2022.
   F. ASTM C1521 - Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints; 2019 (Reapproved 2020).
1.03 SUBMITTALS
   A. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
        1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
        2. List of backing materials approved for use with the specific product.
        3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
        4. Substrates the product should not be used on.
        5. Substrates for which use of primer is required.
        6. Substrates for which laboratory adhesion and/or compatibility testing is required.
        7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
        8. Sample product warranty.
    B. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical
    characteristics, installation instructions, and recommended tools.
    C. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for
   D. Samples for Verification: Where custom sealant color is specified, obtain directions from Architect and submit at least two physical
    samples for verification of color of each required sealant
    E. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.
     F. Installation Plan: Submit at least four weeks prior to start of installation.
   G. Preinstallation Field Adhesion Test Plan: Submit at least two weeks prior to start of installation.
   H. Field Quality Control Plan: Submit at least two weeks prior to start of installation.
    I. Preinstallation Field Adhesion Test Reports: Submit filled out Preinstallation Field Adhesion Test Reports log within 10 days after
     completion of tests; include bagged test samples and photographic records.
    J. Installation Log: Submit filled-out log for each length or instance of sealant installed.
    K. Field Quality Control Log: Submit filled-out log for each length or instance of sealant installed, within 10 days after completion of
    inspections/tests; include bagged test samples and photographic records, if any.
    L. Manufacturer's qualification statement.
    M. Installer's qualification statement.
   N. Executed warranty.
1.04 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years
    documented experience.
   B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented
    C. Installation Plan: Include schedule of sealed joints, including the following:
        1. Joint width indicated in Contract Documents.
        2. Joint depth indicated in Contract Documents; to face of backing material at centerline of joint.
        3. Approximate date of installation, for evaluation of thermal movement influence.
        4. Installation Log Form: Include the following data fields, with known information filled out.
            a. Unique identification of each length or instance of sealant installed.
            b. Location on project.
            c. Substrates.
            d. Sealant used.
            e. Stated movement capability of sealant.
            f. Primer to be used, or indicate no primer is used.
            g. Size and actual backing material used.
            h. Date of installation.
            i. Name of installer.
            j. Actual joint width; provide space to indicate maximum and minimum width.
            k. Actual joint depth to face of backing material at centerline of joint.

    Air temperature.

    D. Preinstallation Field Adhesion Test Plan: Include destructive field adhesion testing of one sample of each combination of sealant type and
    substrate, except interior acrylic latex sealants, and include the following for each tested sample.
        1. Identification of testing agency.
        2. Preinstallation Field Adhesion Test Log Form: Include the following data fields, with known information filled out.
            a. Substrate; if more than one type of substrate is involved in a single joint, provide two entries on form, for testing each sealant
            substrate side separately.
            b. Test date.
           c. Location on project.
            d. Sealant used.
            e. Stated movement capability of sealant.
            f. Test method used.
            g. Date of installation of field sample to be tested.
            i. Copy of test method documents.

    Age of sealant upon date of testing.

             k. Test results, modeled after the sample form in the test method document.
            I. Indicate use of photographic record of test.
   E. Owner will employ an independent testing agency to perform the field quality control inspection and testing as referenced in PART 3 of this
    section and as follows, to prepare and submit the field quality control plan and log, and to provide recommendations of remedies in the case
```

1. Visual inspection of entire length of sealant joints.

small erasable whiteboard positioned next to joint.

3. Field testing agency's qualifications.

G. Field Adhesion Test Procedures:

2. Destructive field adhesion testing of sealant joints, except interior acrylic latex sealant.

b. If any failures occur in the first 1,000 linear feet (305 linear m), continue testing

possibility that more tests than minimum specified may be necessary.

2. Have a copy of the test method document available during tests.

1. Allow sealants to fully cure as recommended by manufacturer before testing.

at frequency of one test per 500 linear feet (152 linear m) at no extra cost to Owner

out and lines for multiple tests per sealant/substrate combinations; include visual inspection and specified field testing; allow for

3. Take photographs or make video records of each test, with joint identification provided in the photos/videos; for example, provide

1.05 WARRANTY PART 2 PRODUCTS A. Scope: d. Joints where installation of sealant is specified in another section. e. Joints between suspended panel ceilings/grid and walls. B. Exterior Joints: NOT USED C. Interior Joints: Use nonsag latex or silicone sealant, unless otherwise indicated. 1. Wall and Ceiling Joints in Nonwet Areas: Acrylic emulsion latex sealant. 2. Floor Joints in Wet Areas: Nonsag polyurethane non-traffic-grade sealant suitable for continuous liquid immersion. 3. Wall, Ceiling, and Floor Joints Where Tamper-Resistance is Required: Non-sag tamper-resistant silyl-terminated polyurethane 4. Joints between Tile in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white. 5. In Sound-Rated Assemblies: Acrylic emulsion latex sealant. D. Interior Wet Areas: restrooms and kitchens; fixtures in wet areas include plumbing fixtures, countertops, cabinets, and other similar items. E. Sound-Rated Assemblies: Walls and ceilings identified as STC-rated, sound-rated, or acoustical. F. Areas Where Tamper-Resistance is Required: As indicated on drawings. 2.02 JOINT SEALANTS - GENERAL A. Sealants and Primers: Provide products with acceptable levels of volatile organic compound (VOC) content; see Section 016116. B. Colors: As indicated on drawings. 2.03 NONSAG JOINT SEALANTS A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic. 1. Movement Capability: Plus 100 percent and minus 50 percent, minimum 2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248. 3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants. 4. Color: To be selected by Architect from manufacturer's standard range 5. Service Temperature Range: Minus 20 to 180 degrees F (Minus 29 to 82 degrees C). B. Mildew-Resistant Silicone Sealant: ASTM C920, Grade NS, Uses M and A; single component, mildew resistant; not expected to withstand continuous water immersion or traffic. Color: White. C. Tamper-Resistant, Silyl-Terminated Polyurethane (STPU) Sealant: ASTM C920, Grade NS, Uses M and A; single component; not expected to withstand continuous water immersion or traffic. 1. Movement Capability: Plus and minus ____ percent, minimum 2. Hardness Range: 25 to 30, Shore A, when tested in accordance with ASTM C661. D. Nonsag Traffic-Grade Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; explicitly approved by manufacturer for continuous water immersion and traffic without the necessity to recess sealant below traffic surface. 1. Movement Capability: Plus and minus 25 percent, minimum. 2. Hardness Range: 20 to 30, Shore A, when tested in accordance with ASTM C661. E. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, nonstaining, nonbleeding, nonsagging; not intended for exterior 1. Color: To be selected by Architect from manufacturer's standard range. F. Noncuring Butyl Sealant: Solvent-based, single component, nonsag, nonskinning, nonhardening, nonbleeding; nonvapor permeable; intended for fully concealed applications 2.04 SELF-LEVELING JOINT SEALANTS A. Self-Leveling Polyurethane Sealant: ASTM C920, Grade P, Uses M and A; single or multicomponent; explicitly approved by manufacturer for traffic exposure; not expected to withstand continuous water immersion . 1. Movement Capability: Plus and minus 25 percent, minimum. 2. Hardness Range: 35 to 55, Shore A, when tested in accordance with ASTM C661. 3. Color: To be selected by Architect from manufacturer's standard range. 2.05 ACCESSORIES A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application. 1. Type for Joints Not Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type C - Closed Cell Polyethylene. 2. Type for Joints Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type C - Closed Cell Polyethylene. B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application. C. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to D. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials. E. Primers: Type recommended by sealant manufacturer to suit application; nonstaining. PART 3 EXECUTION 3.01 EXAMINATION A. Verify that joints are ready to receive work. B. Verify that backing materials are compatible with sealants. C. Verify that backer rods are of the correct size. D. Preinstallation Adhesion Testing: Install a sample for each test location indicated in the test plan. 1. Test each sample as specified in PART 1 under QUALITY ASSURANCE article. 2. Notify Architect of date and time that tests will be performed, at least seven days in advance. Record each test on Preinstallation Adhesion Test Log as indicated. 4. If any sample fails, review products and installation procedures, consult manufacturer, or take other measures that are necessary to ensure adhesion; retest in a different location; if unable to obtain satisfactory adhesion, report to Architect. 5. After completion of tests, remove remaining sample material and prepare joints for new sealant installation. 3.02 PREPARATION A. Remove loose materials and foreign matter that could impair adhesion of sealant. B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions. C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193. D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable. 3.03 INSTALLATION A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions. B. Provide joint sealant installations complying with ASTM C1193 C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated. D. Install bond breaker backing tape where backer rod cannot be used. E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces. F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed. G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface. 3.04 FIELD QUALITY CONTROL A. Owner will employ an independent testing agency to perform field quality control inspection and testing as specified in PART 1 under **QUALITY ASSURANCE article.** B. Non-Destructive Adhesion Testing: If there are any failures in first 100 linear feet (30 linear m), notify Architect immediately. C. Destructive Adhesion Testing: If there are any failures in first 1,000 linear feet (300 linear m), notify Architect immediately. D. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation. E. Repair destructive test location damage immediately after evaluation and recording of results. END OF SECTION 079200 SECTION 081113 HOLLOW METAL DOORS AND FRAMES PART 1 GENERAL 1.01 SECTION INCLUDES A. Non-fire-rated hollow metal doors and frames. B. Hollow metal frames for wood doors. C. Thermally insulated hollow metal doors with frames. D. Detention security hollow metal doors and frames. E. Hurricane-resistant hollow metal doors and frames. F. Hollow metal borrowed lites glazing frames. G. Accessories, including glazing.
1.02 REFERENCE STANDARDS A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010. B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2022. C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames: 2020. D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2023. E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2020. F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023. G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2021a. H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023. I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023. J. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021). K. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016. L. FEMA P-361 - Safe Rooms for Tornadoes and Hurricanes: Guidance for Community and Residential Safe Rooms; 2021. M. FLA (PAD) - Florida Building Code Online - Product Approval Directory; Current Edition. N. ICC 500 - ICC/NSSA Standard for the Design and Construction of Storm Shelters; 2020. O. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017. P. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002. R. NAAMM HMMA 840 - Guide Specifications For Receipt, Storage and Installation of Hollow Metal Doors and Frames; 2017. S. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014. T. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2023. 1.03 SUBMITTALS A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes. B. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements. 1. Contractor shall cooperate with testing agency and repair failures discovered and destructive test location damage. C. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project. D. Manufacturer's Qualification Statement. E. Installer's Qualification Statement. 1.04 QUALITY ASSURANCE a. For each different sealant and substrate combination, allow for one test every 100 feet (30 m) in the first 1,000 linear feet (305 A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years linear m), and one test per 1,000 linear feet (305 linear m) thereafter, or once per floor on each elevation. documented experience B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented C. Maintain at project site copies of reference standards relating to installation of products specified. 1.05 DELIVERY, STORAGE, AND HANDLING 4. Field Quality Control Log Form: Show same data fields as on Preinstallation Field Adhesion Test Log, with known information filled

4. Record the type of failure that occurred, other information required by test method, and the information required on the Field Quality 5. When performing destructive tests, also inspect the opened joint for proper installation characteristics recommended by manufacturer, and report any deficiencies. 6. Deliver the samples removed during destructive tests in separate sealed plastic bags, identified with project, location, test date, and 7. If any combination of sealant type and substrate does not show evidence of minimum adhesion or shows cohesion failure before minimum adhesion, report results to Architect. H. Destructive Field Adhesion Test: Test for adhesion in accordance with ASTM C1521, using Destructive Tail Procedure. 1. Sample: At least 18 inches (457 mm) long. 2. Minimum Elongation Without Adhesive Failure: Consider the tail at rest, not under any elongation stress; multiply the stated movement capability of the sealant in percent by two; then multiply 1 inch (25.4 mm) by that percentage; if adhesion failure occurs before the 1-inch mark is that distance from the substrate, the test has failed. 3. If either adhesive or cohesive failure occurs before minimum elongation, take necessary measures to correct conditions and retest; record each modification to products or installation procedures. 4. Record results on Field Quality Control Log. Repair failed portions of joints. I. Field Adhesion Tests of Joints: Test for adhesion using most appropriate method in accordance with ASTM C1521, or another applicable method as recommended by manufacturer. A. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer. B. Extended Correction Period: Correct defective work within 2-year period commencing on Date of Substantial Completion. 2.01 JOINT SEALANT APPLICATIONS 1. Exterior Joints: NOT USED 2. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items. a. Joints between door, window, and other frames and adjacent construction. b. In sound-rated wall and ceiling assemblies, gaps at electrical outlets, wiring devices, piping, and other openings; between wall/ceiling and other construction; and other flanking sound paths. 1) Exception: Through-penetrations in sound-rated assemblies that are also fire-rated. 3. Do not seal the following types of joints: a. Intentional weep holes in masonry. b. Joints indicated to be treated with manufactured expansion joint cover, or some other type of sealing device. c. Joints where sealant is specified to be provided by manufacturer of product to be sealed.

208 Pirkle Ferry Road, Suite C Cumming, GA 30040

PRINT RECORD No. DATE DESCRIPTION Drawn By **Checked By** JDG

Job No. Date 08/01/2025 25018

Sheet Title

SPECIFICATIONS

Sheet No.

Forsyth County Reviewe Sonya M. Whetstone Final Approval Subject to Field Inspec

humidity damage.

A. Hollow Metal Doors and Frames: 1. Ceco Door, an Assa Abloy Group company: www.assaabloydss.com/#sle. 2. Curries, an Assa Abloy Group company: www.assaabloydss.com/#sle. 3. Fleming Door Products, an Assa Abloy Group company: www.assaabloydss.com/#sle.

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted

C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might

A. Manufacturer Warranty: Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name

1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing

1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS),

A. Veneer Facing for Transparent Finish: Natural birch, veneer grade in accordance with quality standard indicated, plain sliced (flat cut).

bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.

1.06 WARRANTY

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 DOORS AND PANELS

and register with manufacturer.

A. Wood Veneer Faced Doors:

unless noted otherwise

2.03 DOOR AND PANEL CORES

2.04 DOOR FACINGS

1. Krieger Specialty Products: www.kriegerproducts.com/#sle.

3. Oregon Door: www.oregondoor.com/#sle.

1. Provide solid core doors at each location.

4. VT Industries, Inc: www.vtindustries.com/#sle.

A. Doors: See drawings for locations and additional requirements.

2. Masonite Architectural: www.architectural.masonite.com/#sle.

2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.

with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.

2. Wood veneer facing with factory transparent finish as indicated on drawings.

core construction.

B. Facing Adhesive: Type I - waterproof. 2.05 DOOR CONSTRUCTION A. Fabricate doors in accordance with door quality standard specified. B. Cores Constructed with stiles and rails: C. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions. D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality

E. Provide edge clearances in accordance with the quality standard specified. 2.06 FINISHES - WOOD VENEER DOORS A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows: Transparent a. System - 11, Polyurethane, Catalyzed. b. Stain: As selected by Architect. c. Sheen: Flat. B. Factory finish doors in accordance with approved sample. C. Seal door top edge with color sealer to match door facing. 2.07 ACCESSORIES A. Hollow Metal Door Frames: See Section 081113. PART 3 EXECUTION 3.01 EXAMINATION A. Verify existing conditions before starting work. B. Verify that opening sizes and tolerances are acceptable. C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment. A. Install doors in accordance with manufacturer's instructions and specified quality standard. B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door. C. Use machine tools to cut or drill for hardware. D. Coordinate installation of doors with installation of frames and hardware. A. Comply with specified quality standard for fit and clearance tolerances. B. Comply with specified quality standard for telegraphing, warp, and squareness. 3.04 ADJUSTING A. Adjust doors for smooth and balanced door movement. B. Adjust closers for full closure. END OF SECTION 081416 SECTION 087100 - DOOR HARDWARE PART 1 - GENERAL 1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section. 1.2 SUMMARY A. This Section includes commercial door hardware for the following: Swinging doors. B. Door hardware includes, but is not necessarily limited to, the following: . Mechanical door hardware. . Cylinders specified for doors in other sections. C. Related Sections: . Division 08 Section "Hollow Metal Doors and Frames". Division 08 Section "Flush Wood Doors". D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction. . ANSI A117.1 - Accessible and Usable Buildings and Facilities. . ICC/IBC - International Building Code. B. NFPA 70 - National Electrical Code. 4. NFPA 80 - Fire Doors and Windows. 5. NFPA 101 - Life Safety Code. S. NFPA 105 - Installation of Smoke Door Assemblies. State Building Codes, Local Amendments. standard shall be interpreted as referring to the latest edition of that standard: . ANSI/BHMA Certified Product Standards - A156 Series. 2. UL10C - Positive Pressure Fire Tests of Door Assemblies. . ANSI/UL 294 - Access Control System Units. 4. UL 305 - Panic Hardware. ANSI/UL 437- Key Locks. 1.3 SUBMITTALS A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes. thickness, hand, function, and finish of door hardware. 3. Content: Include the following information: a. Type, style, function, size, label, hand, and finish of each door hardware item. Manufacturer of each item. c. Fastenings and other pertinent information. d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule. e. Explanation of abbreviations, symbols, and codes contained in schedule. f. Mounting locations for door hardware. g. Door and frame sizes and materials. Warranty information for each product. and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores. D. Informational Submittals by manufacturer and witnessed by a qualified independent testing agency. 1.4 CLOSEOUT SUBMITTALS A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures. required in Division 01, Project Record Documents. 1.5 QUALITY ASSURANCE A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance. B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD). C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying. E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted Each unit to bear third party permanent label indicating compliance with the referenced testing standards. G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document: 1. Function of building, purpose of each area and degree of security required. Plans for existing and future key system expansion.

1. Vertical Edges: Any option allowed by quality standard for grade.

1. Provide solid blocks at lock edge for hardware reinforcement.

2. Provide solid blocking for other throughbolted hardware.

2. "Running Match" each pair of doors and doors in close proximity to each other.

Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule." 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. omittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door . Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as

maximum 2" wide stiles. Manufacturers: 2.9 SURFACE DOOR CLOSERS 1. Heavy duty surface mounted door closers shall have a 30-year warranty. 2. Manufacturers:

PART 3 - EXECUTION

3. Requirements for key control storage and software. 4. Installation of permanent keys, cylinder cores and software. 5. Address and requirements for delivery of keys. H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals,

the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware hardware schedules, templates and physical product samples as required. 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades. Review sequence of operation narratives for each unique access controlled opening. 4. Review and finalize construction schedule and verify availability of materials. 5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule. 1.6 DELIVERY, STORAGE AND HANDLING A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization. B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements. B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

18 WARRANTY A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents. B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following: Structural failures including excessive deflection, cracking, or breakage

Electrical component defects and failures within the systems operation. C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion. PART 2 - PRODUCTS 2.1 MATERIALS A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position. 2.2 BUTT HINGES A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

Deterioration of metals, metal finishes, and other materials beyond normal weathering.

Faulty operation of the hardware.

Manufacturers:

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.

b. Three Hinges: For doors with heights 61 to 90 inches. c. Four Hinges: For doors with heights 91 to 120 inches. d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required: a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified

B. Hinge Weight and Base Material: Unless otherwise indicated, provide the following: a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy 4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors. a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs. Manufacturers:

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.

Threaded mortise cylinders with rings and cams to suit hardware application.

3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.

until finishes have been completed on substrates involved. A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a the door face allowing the push plate to sit flat against the door. Section "Joint Sealants." 3.4 FIELD QUALITY CONTROL 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching 3.5 ADJUSTING Large Format Interchangeable Cores: Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and and ventilating equipment and to comply with referenced accessibility requirements. restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by 3.6 CLEANING AND PROTECTION manufacturer's United States patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting. 1. Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified B. Clean adjacent surfaces soiled by door hardware installation. C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy. 1.2 DEMONSTRATION Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements. 1.3 DOOR HARDWARE SETS Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.

H. Key Registration List (Bitting List): 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software. 2. Provide transcript list in writing or electronic file as directed by the Owner. A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers: a. Lund Equipment (LU). b. MMF Industries (MM). c. Telkee (TK). 2.6 CYLINDRICAL LOCKS AND LATCHING DEVICES

A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein. Manufacturers: a. Corbin Russwin Hardware (RU) - CLX3300 Series. b. Sargent Manufacturing (SA) - 10X Line.

2.7 LOCK AND LATCH STRIKES A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows: 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing. 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications. B. Standards: Comply with the following:

Strikes for Mortise Locks and Latches: BHMA A156.13. Strikes for Bored Locks and Latches: BHMA A156.2. 3. Strikes for Auxiliary Deadlocks: BHMA A156.36. 4. Dustproof Strikes: BHMA A156.16. 2.8 CONVENTIONAL EXIT DEVICES

a. Pemko (PE).

published security keying system policy.

Keyway: Manufacturer's Standard

and supplied to support existing systems.

b. Sargent (SA) - Degree DG1.

Change Keys per Cylinder: Two (2)

a. Corbin Russwin (RU) - Access 3 AP.

Manufacturers:

Tubular deadlocks and other auxiliary locks

for use with only the core manufacturer's cylinder and door hardware.

Keying System: Each type of lock and cylinders to be factory keyed.

Key Quantity: Provide the following minimum number of keys:

Master Keys (per Master Key Level/Group): Five (5).

G. Construction Keying: Provide temporary keyed construction cores.

Construction Control Keys (where required): Two (2).

5. Permanent Control Keys (where required): Two (2).

3. Construction Keys (where required): Ten (10).

New System: Key locks to a new key system as directed by the Owner.

2.4 CYLINDERS AND KEYING

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria: Exit devices shall have a five-year warranty. 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets. 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and

template book for specific requirements. 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets. 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration. 6. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. 7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs

a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets. b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets. 8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor. 9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for

10. Dummy Push Bar: Nonfunctioning push bar matching functional push bar. 11. Rail Sizing: Provide exit device rails factory sized for proper door width application. 12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets. B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices.

Listed manufacturers shall meet all functions and features as specified herein. a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.

b. Sargent Manufacturing (SA) - 80 Series. A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors. 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1. 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets. . Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

a. Corbin Russwin Hardware (RU) - DC6000 Series. b. Norton Rixson (NO) - 7500 Series. c. Sargent Manufacturing (SA) - 351 Series.

Door Closers, Surface Mounted (Unitrol): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted closers with door stop mechanism to absorb dead stop shock on arm and top hinge. Hold-open arms to have a spring loaded mechanism in addition to shock absorber assembly. Arms to be provided with rigid steel main arm and secondary arm lengths proportional to the door

a. Corbin Russwin Hardware (RU) - Unitrol Series. b. Norton Rixson (NO) - Unitrol Series. 2.10 ARCHITECTURAL TRIM A. Door Protective Trim

2. DHI TDH-007-20: Installation Guide for Doors and Hardware

General: Door protective trim units to be of type and design as specified below or in the Hardware Sets. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets. 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications. 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick. 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes. 6. Manufacturers: a. Rockwood (RO).

DOOR STOPS AND HOLDERS A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets. B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders. Manufacturers: a. Rockwood (RO).

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated. B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784. 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from

stocks maintained by manufacturer. F. Manufacturers: Pemko (PF) 2.13 FABRICATION A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet

metal screws. Provide screws according to manufacturers recognized installation standards for application intended. A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products. B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

3.1 EXAMINATION A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance. B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing. 3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series. B. Wood Doors: Comply with ANSI/DHI A115-W series. 3.3 INSTALLATION A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals. B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations: 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and

3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and

4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with

. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation. A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include

list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected. A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware. A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the

architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality. Quantities listed are for each pair of doors, or for each single door. The supplier is responsible for handing and sizing all products. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. B. Manufacturer's Abbreviations:

MK - McKinney PE - Pemko 3. SA - SARGENT 1. NO - Norton

5. RO - Rockwood END OF SECTION 087100

E. Gypsum wallboard.

Elements; 2009 (Reapproved 2016).

Housing: 2023.

SECTION 092116 GYPSUM BOARD ASSEMBLIES PART 1 GENERAL 1.01 SECTION INCLUDES A. Performance criteria for gypsum board assemblies. B. Resilient sound isolation clips. C. Acoustic insulation. D. Gypsum sheathing.

F. Joint treatment and accessories 1.02 REFERENCE STANDARDS A. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017 (Reapproved 2022). B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured

C. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2020. D. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2022. E. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2022.

F. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019. G. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017. H. ASTM C1280 - Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing; 2018. I. ASTM C1629/C1629M - Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels; 2023.

J. ASTM C1658/C1658M - Standard Specification for Glass Mat Gypsum Panels: 2019, with Editorial Revision (2020). K. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; L. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and

M. ASTM E413 - Classification for Rating Sound Insulation; 2022. N. GA-216 - Application and Finishing of Gypsum Panel Products; 2021. O. UL 2079 - Standard for Tests for Fire Resistance of Building Joint Systems; Current Edition, Including All Revisions. A. Product Data:

1. Provide data on gypsum board, accessories, and joint finishing system. B. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals. Submit control join layout for walls and ceilings. 1.04 DELIVERY, STORAGE, AND HANDLING A. Store gypsum products and accessories indoors and keep above freezing. Elevate boards above floor, on nonwicking supports, in accordance with manufacturer's recommendations.

B. Store metal products to prevent corrosion. PART 2 PRODUCTS 2.01 GYPSUM BOARD ASSEMBLIES A. Provide completed assemblies complying with ASTM C840 and GA-216. B. Interior Partitions, Indicated as Sound-Rated: Provide completed assemblies with the following characteristics: 1. Acoustic Attenuation: STC as indicated calculated in accordance with ASTM E413, based on tests conducted in accordance with

C. Shaft Walls at HVAC Shafts: Provide completed assemblies with the following characteristics: 1. Air Pressure Within Shaft: Sustained loads of 5 lbf/sq ft (0.24 kPa) with maximum mid-span deflection of L/240.

2. Acoustic Attenuation: STC of 50-54 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM D. Shaft Walls at Elevator Shafts: Provide completed assemblies with the following characteristics: 1. Air Pressure Within Shaft: Intermittent loads of 5 lbf/sq ft (0.24 kPa) with maximum mid-span deflection of L/240.

2. Acoustic Attenuation: STC of 50-54 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E. Fire-Resistance-Rated Assemblies: Provide completed assemblies with the following characteristics:

1. Meet requirements of tested, rated assemblies indicated on Drawings with hours of fire resistance indicated on Drawings. 2.02 METAL FRAMING MATERIALS A. Nonstructural Steel Framing for Application of Gypsum Board: See Section 092216.

3. Gold Bond Building Products, LLC provided by National Gypsum Company: www.goldbondbuilding.com/#sle.

B. Structural Steel Framing for Application of Gypsum Board: See Section 054000. 2.03 BOARD MATERIALS A. Manufacturers - Gypsum-Based Board: 1. CertainTeed Corporation: www.certainteed.com/#sle.

2. Georgia-Pacific Gypsum: www.gpgypsum.com/#sle.

4. USG Corporation: www.usg.com/#sle. 5. Substitutions: See Section 016000 - Product Requirements. B. Gypsum Board for Walls and Ceilings: Application: As indicated on drawings. 2. Surface Abrasion: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.

3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M. Soft Body Impact: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M. 5. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. 6. Type: Fire-resistance-rated Type X, UL or WH listed. 7. Thickness: 5/8 inch (16 mm).

8. Edges: Tapered. 9. Glass Mat Faced Products: a. Basis of Design: Georgia-Pacific Gypsum; DensArmor Plus Abuse-Resistant: www.gpgypsum.com/#sle. b. Substitutions: See Section 016000 - Product Requirements. C. Impact Resistant Wallboard:

 Application: High-traffic areas indicated. 2. Surface Abrasion: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M. 3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M. 4. Hard Body Impact: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.

5. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. 6. Type: Fire-resistance-rated Type X, UL or WH listed. 7. Thickness: 5/8 inch (16 mm). Glass Mat Faced Products:

a. Basis of Design: Gold Bond Building Products, LLC provided by National Gypsum Company; Gold Bond XP High-Impace Panel: www.goldbondbuilding.com/#sle. b. Substitutions: See Section 016000 - Product Requirements. D. Exterior Sheathing Board: Sizes to minimize joints in place; ends square cut.

1. Application: Exterior sheathing, unless otherwise indicated. 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. 3. Glass Mat Faced Sheathing: Glass mat faced gypsum substrate as defined in ASTM C1177/C1177M. 4. Core Type: Regular and Type X, as indicated. 5. Type X Thickness: 5/8 inch (16 mm). 6. Regular Board Thickness: 5/8 inch (16 mm).

7. Edges: Square. 8. Glass Mat Faced Products: a. CertainTeed Corporation; GlasRoc Type X Exterior Sheathing: www.certainteed.com/#sle. b. Georgia-Pacific Gypsum; DensGlass Sheathing: www.gpgypsum.com/#sle. c. Georgia-Pacific Gypsum; DensGlass Fireguard Sheathing: www.gpgypsum.com/#sle.

d. Gold Bond Building Products, LLC provided by National Gypsum Company; Gold Bond eXP Fire-Shield Sheathing: www.goldbondbuilding.com/#sle. e. USG Corporation; Securock Brand UltraLight Glass-Mat Sheathing Firecode X 5/8 in. (15.9 mm): www.usg.com/#sle. f. Substitutions: See Section 016000 - Product Requirements. E. Shaftwall and Coreboard: Type X; 1 inch (25 mm) thick by 24 inches (600 mm) wide, beveled long edges, ends square cut.

1. Glass Mat Faced Type: Glass mat shaftliner gypsum panel or glass mat coreboard gypsum panel as defined in ASTM 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.

2.04 GYPSUM BOARD ACCESSORIES A. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit type, unfaced; thickness as required for STC. B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant. C. Water-Resistive Barrier: See Section 072500 D. Finishing Accessories: ASTM C1047, extruded aluminum alloy (6063 T5) or galvanized steel sheet ASTM A924/A924M G90, unless

noted otherwise. 1. Types: As detailed or required for finished appearance. 2. Special Shapes: In addition to conventional corner bead and control joints, provide U-bead at exposed panel edges. E. Joint Accessories and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.

1. Corner Beads: Low profile, for 90 degree outside corners. 2. Expansion Joints: a. Fire-Resistance Rated: 1 hour when joint system tested in accordance with UL 2079.

b. Type: V-shaped metal with factory-installed protective tape. F. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions. 1. Fiberglass Tape: 2 inch (50 mm) wide, coated glass fiber tape for joints and corners, except as otherwise indicated.

2. Joint Compound: Setting type, field-mixed. G. Finishing Compound: Surface coat and primer, takes the place of skim coating.

H. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant. I. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch (0.84 to 2.84 mm) in Thickness: ASTM C954; steel drill screws, corrosion-resistant J. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in

PART 3 EXECUTION 3.01 EXAMINATION A. Verify that project conditions are appropriate for work of this section to commence. 3.02 SHAFT WALL INSTALLATION

A. Shaft Wall Framing: Install in accordance with manufacturer's installation instructions. 1. Install studs at spacing required to meet performance requirements. B. Shaft Wall Liner: Cut panels to accurate dimensions and install sequentially between special friction studs. 1. On walls over sixteen feet high, screw-attach studs to runners top and bottom.

2. Seal perimeter of shaft wall and penetrations with acoustical sealant.

Sheet No. Forsyth County Reviewe Sonya M. Whetstone

Final Approval Subject to Field Inspec

208 Pirkle Ferry Road, Suite C

Cumming, GA 30040



No. DAT	TE DESCRIPTION
NO. DAI	DESCRIPTION

Job No. Date 08/01/2025

Sheet Title **SPECIFICATIONS**

3.03 ACOUSTIC ACCESSORIES INSTALLATION

G. ANSI A108.5 - Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood)

H. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-

I. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and

J. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout;

N. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile

O. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile

P. ANSI A108.20 - American National Standard Specifications for Exterior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile

Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar; 2020.

R. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2019.

S. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension

K. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2017 (Reaffirmed 2022).

Q. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation: 2019.

T. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar; 2019.

U. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.

L. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2018.

M. ANSI A108.12 - Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Modified Dry-Set Mortar; 2023.

Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar; 2023.

W. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes: 2019a. X. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2023. 1.03 ADMINISTRATIVE REQUIREMENTS A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by affected 1.04 SUBMITTALS A. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and B. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, ceramic accessories, and setting details. C. Samples: Mount tile and apply grout on two plywood panels, minimum 18 by 18 inches (457 by 457 mm) in size illustrating pattern, color variations, and grout joint size variations D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements. E. Master Grade Certificate: Submit for each type of tile, signed by the tile manufacturer and tile installer. F. Installer's Qualification Statement: 1. Submit documentation of National Tile Contractors Association (NTCA) or Tile Contractors' Association of America (TCAA) 2. Submit documentation of completion of apprenticeship and certification programs. 3. Submit documentation of Natural Stone Institute Accreditation. G. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods. H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. 1. Extra Tile: 10 square feet (1 square meters) of each size, color, and surface finish combination. 1.05 QUALITY ASSURANCE A. Maintain one copy of ANSI A108/A118/A136 and TCNA (HB) on site. B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five C. Installer Qualifications: Natural Stone Institute (NSI) Accredited Commercial B Contractor (light commercial): www.naturalstoneinstitute.org/#sle. D. Installer Qualifications: 1. Company specializing in performing tile installation, with minimum of five years of documented experience. a. Accredited Five-Star member of the National Tile Contractors Association (NTCA) or Trowel of Excellence member of the Tile Contractors' Association of America (TCAA). 2. Installer Certification: a. Ceramic Tile Education Foundation (CTEF): Certified Tile Installer (CTI). b. Apprenticeship Program: Installer has achieved Journeyworker status through an apprenticeship from the International Union of Bricklayers and Allied Craftworkers (IUBAC) or a U.S. Department of Labor (DOL)-recognized program. c. Advanced Certifications for Tile Installers (ACT): Certification in the installation of membranes, large format tile, and grouts. d. International Masonry Training and Education Foundation (IMTEF): Supervisor Certification Program (SCP). 1.06 MOCK-UPS A. Construct tile mock-up where indicated on drawings, incorporating all components specified for the location. 1. Minimum Size of Mock-Up: 5 ft by 5 ft (1524 mm by 1524 mm) minimum, for each type of tile. 2. Demolish mock-up when directed by Architect, and remove debris from the site. 1.07 DELIVERY, STORAGE, AND HANDLING A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions. 1.08 FIELD CONDITIONS A. Do not install solvent-based products in an unventilated environment. B. Maintain ambient and substrate temperature above 50 degrees F (10 degrees C) and below 100 degrees F (38 degrees C) during installation and curing of setting materials. PART 2 PRODUCTS 2.01 TILE A. Manufacturers: 1. Basis of Design: As indicated on drawings. 2. Substitutions: See Section 016000 - Product Requirements. 2.02 TRIM AND ACCESSORIES A. Ceramic Trim: Matching bullnose and cove base ceramic shapes in sizes coordinated with field tile. Applications: a. Open Edges: Bullnose. b. Inside Corners: Jointed. c. Floor to Wall Joints: Cove base. 2. Manufacturers: Same as for tile. B. Non-Ceramic Trim: Satin natural anodized extruded aluminum, style and dimensions as indicated on drawings, for setting using tile mortar or adhesive. 1. Applications: a. Open edges of wall tile. b. Open edges of floor tile. c. Wall corners, outside and inside. d. Transition between floor finishes of different heights. e. Thresholds at door openings. f. Expansion and control joints, floor and wall. a. Floor to wall joints. h. Borders and other trim as indicated on drawings. Manufacturers: a. Basis of Design: Schluter-Systems: www.schluter.com/#sle. b. Substitutions: See Section 016000 - Product Requirements. 2.03 SETTING MATERIALS A. Provide setting and grout materials from same manufacturer. 1. ARDEX Engineered Cements: www.ardexamericas.com/#sle. 2. Custom Building Products: www.custombuildingproducts.com/#sle. 3. LATICRETE International, Inc: www.laticrete.com/#sle. 4. Substitutions: See Section 016000 - Product Requirements C. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15. 1. Applications: Use this type of bond coat where Large and Heavy Tile (LHT) mortar is indicated. a. ARDEX Engineered Cements; S 28: www.ardexamericas.com/#sle. b. Custom Building Products; Complete Contact-LFT Premium Rapid Setting Large Format Tile Mortar, with Multi-Surface Bonding Primer: www.custombuildingproducts.com/#sle. c. LATICRETE International, Inc; MULTIMAX LITE: www.laticrete.com/#sle. d. Substitutions: See Section 016000 - Product Requirements. 2.04 GROUTS A. Provide setting and grout materials from same manufacturer. B. Manufacturers: 1. ARDEX Engineered Cements: www.ardexamericas.com/#sle. 2. Custom Building Products: www.custombuildingproducts.com/#sle. 3. LATICRETE International, Inc: www.laticrete.com/#sle. 4. Substitutions: See Section 016000 - Product Requirements C. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout. Applications: Use this type of grout where indicated and where no other type of grout is indicated. 2. Use sanded grout for joints 1/8 inch (3.2 mm) wide and larger; use unsanded grout for joints less than 1/8 inch (3.2 mm) wide. 3. Color(s): As indicated on drawings. 4. Products: a. ARDEX Engineered Cements; ARDEX FL: www.ardexamericas.com/#sle. b. Custom Building Products; Prism Color Consistent Grout: www.custombuildingproducts.com/#sle. c. LATICRETE International, Inc; LATICRETE PERMACOLOR Grout: www.laticrete.com/#sle. d. Substitutions: See Section 016000 - Product Requirements. 2.05 MAINTENANCE MATERIALS A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type. 1. Applications: Between tile and plumbing fixtures. 2. Color(s): As selected by Architect from manufacturer's full line. 3. Products a. ARDEX Engineered Cements; ARDEX SX: www.ardexamericas.com/#sle. b. Custom Building Products; Commercial 100% Silicone Caulk: www.custombuildingproducts.com/#sle. c. LATICRETE International, Inc; LATICRETE LATASIL: www.laticrete.com/#sle. d. Substitutions: See Section 016000 - Product Requirements. B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout. 1. Composition: Water-based colorless silicone. 2. Color(s): As selected by Architect from manufacturer's full line. C. Grout Release: Temporary, water-soluble pre-grout coating. a. Custom Building Products; Aqua Mix Grout Release: www.custombuildingproducts.com/#sle. b. Substitutions: See Section 016000 - Product Requirements. 2.06 ACCESSORY MATERIALS A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing. 1. Crack Resistance: No failure at 1/8 inch (3.2 mm) gap, minimum. 2. Fluid or Trowel Applied Type: a. Material: Synthetic rubber or Acrylic. b. Thickness: 20 mils (0.5 mm), maximum. 1) LATICRETE International, Inc; LATICRETE Blue 92 Anti-Fracture Membrane: www.laticrete.com/#sle. 2) Substitutions: See Section 016000 - Product Requirements. B. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 7/16 inch (11 mm) thick; 2 inch (51 mm) wide coated glass fiber tape for joints and corners. Products: a. Custom Building Products; WonderBoard Lite Backerboard: www.custombuildingproducts.com/#sle. b. Substitutions: See Section 016000 - Product Requirements. PART 3 EXECUTION 3.01 EXAMINATION A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile. B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive C. Verify that subfloor surfaces are dust free and free of substances that could impair bonding of setting materials to subfloor surfaces. D. Cementitious Subfloor Surfaces: Verify that substrates are ready for tiling installation by testing for moisture and alkalinity (pH). a. Alkalinity (pH): ASTM F710. b. Internal Relative Humidity: ASTM F2170. c. Moisture Vapor Emission: ASTM F1869. 2. Obtain instructions if test results are not within limits recommended by tiling material manufacturer and setting material manufacturer. 3. Follow moisture and alkalinity remediation procedures in Section 090561 E. Verify that required floor-mounted utilities are in correct location. 3.02 PREPARATION A. Protect surrounding work from damage. B. Vacuum clean surfaces and damp clean. C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances. D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge. E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions. 3.03 INSTALLATION - GENERAL A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.20, manufacturer's instructions, and TCNA (HB) recommendations. B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings. C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints. D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout. E. Form internal angles square and external angles bullnosed. F. Install non-ceramic trim in accordance with manufacturer's instructions.

G. Sound tile after setting. Replace hollow sounding units.

appropriate to prevent three-sided bonding.

2. Expansion Joints: EJ171D.

3. Perimeter Joints: EJ171G.

3.05 INSTALLATION - WALL TILE

3.06 CLEANING

3.07 PROTECTION

END OF SECTION 093000

with TCNA (HB) Method W244F.

A. Clean tile and grout surfaces.

3.04 INSTALLATION - FLOORS - THIN-SET METHODS

1. Control or Contraction Joints: EJ171B.

H. Keep control and expansion joints free of mortar, grout, and adhesive.

high performance, polymer modified grout, unless otherwise indicated.

A. Do not permit traffic over finished floor surface for 4 days after installation.

I. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

1. Use uncoupling membrane under all tile unless other underlayment is indicated.

V. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium

3.01 EXAMINATION 3.05 TOLERANCES 3.06 CLEANING PART 1 GENERAL B. Resilient base. Chloride; 2023. 1.03 SUBMITTALS PART 2 PRODUCTS J. Grout tile joints unless otherwise indicated. Use latex-portland cement grout unless otherwise indicated . K. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as 1. Manufacturers: a. Basis of Design: As indicated on D A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with b. Substitutions: See Section 016000 - Product Requirements. 2. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified. 3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253. B. Install tile-to-tile floor movement joints in accordance with TCNA (HB) Methods as follows: 4. Total Thickness: 0.125 inch (3.2 mm). 5. Color and Pattern: As indicated on drawings. 2.02 RESILIENT BASE A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; Style B, Cove. 1. Manufacturers: A. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244, using membrane at showers in accordance a. Basis of Design: As indicated on Drawings. b. Substitutions: See Section 016000 - Product Requirements. 2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253. 3. Height: 4 inches (100 mm). 4. Thickness: 0.125 inch (3.2 mm). 5. Finish: Satin. 6. Length: Roll. 7. Color: As indicated on drawings.

SECTION 095100 ACOUSTICAL CEILINGS PART 1 GENERAL 1.01 SECTION INCLUDES A. Suspended metal grid ceiling system. B. Acoustical units. C. Supplementary insulation above ceiling. 1.02 REFERENCE STANDARDS A. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2022. B. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2019. C. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2022. D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2023. 1.03 ADMINISTRATIVE REQUIREMENTS A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved. B. Do not install acoustical units until after interior wet work is dry. 1.04 SUBMITTALS A. Product Data: Provide data on suspension system components and acoustical units. B. Shop Drawings: Indicate grid layout and related dimensioning. C. Evaluation Service Reports: Show compliance with specified requirements D. Samples: Submit two samples 6 by 6 inch (152 by 152 mm) in size illustrating material and finish of acoustical units. E. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention. F. Designer's qualification statement. G. Manufacturer's qualification statement. H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. 1. Extra Acoustical Units: Quantity equal to 5 percent of total installed. 1.05 QUALITY ASSURANCE A. Designer Qualifications for Seismic Design: Perform under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed at the State in which the Project is located. B. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience. C. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience. 1.06 FIELD CONDITIONS A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to, during, and after acoustical unit installation. PART 2 PRODUCTS 2.01 MANUFACTURERS A. Acoustic Panels: 1. Armstrong World Industries, Inc: www.armstrongceilings.com/#sle. 2. Rockfon: www.rockfon.com/#sle. 3. USG Corporation: www.usg.com/ceilings/#sle 4. Substitutions: See Section 016000 - Product Requirements. B. Suspension Systems: 1. Same as for acoustical units. 2. Substitutions: See Section 016000 - Product Requirements. 2.02 ACOUSTICAL UNITS A. Acoustical Units - General: ASTM E1264, Class A. B. Acoustical Panels: Painted mineral fiber, with the following characteristics: 1. Basis of Design: As indicated on the Drawings. 2. Size: 24 by 24 inches (610 by 610 mm). 3. Color: White. 4. Suspension System: 15/16-inch (24 mm) exposed grid. 2.03 SUSPENSION SYSTEM(S) A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, and splices as required. B. Exposed Suspension System: Hot-dipped galvanized steel grid with steel cap. 1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M. 2. Profile: Tee; 15/16 inch (24 mm) face width. 3. Finish: Baked enamel. 4. Color: White. C. Suspension Systems for ACC-1 and ACC-2: As specified in this Section. A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified. B. Hanger Wire: 12 gauge, 0.08 inch (2 mm) galvanized steel wire. C. Hold-Down Clips: Manufacturer's standard clips to suit application. D. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application. E. Perimeter Moldings: Same metal and finish as grid. 1. Size: As required for installation conditions and specified Seismic Design Category. 2. Angle Molding: L-shaped, for mounting at same elevation as face of grid. 3. Acoustical Sealant For Perimeter Moldings: Non-hardening, non-skinning, for use in conjunction with suspended ceiling system. F. Acoustical Insulation: See Section 092116. 1. Thickness: 2 inch (51 mm). G. Touch-up Paint: Type and color to match acoustical and grid units. PART 3 EXECUTION A. Verify existing conditions before starting work. B. Verify that layout of hangers will not interfere with other work 3.02 PREPARATION A. Install after major above-ceiling work is complete B. Coordinate the location of hangers with other work. 3.03 INSTALLATION - SUSPENSION SYSTEM A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section. B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360. C. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size. D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions. Install in bed of acoustical sealant. 2. Use longest practical lengths. 3. Overlap and rivet corners. E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members. F. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch (9 mm) clearance between grid ends and wall. G. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance. H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability. I. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components J. Do not eccentrically load system or induce rotation of runners. K. Form expansion joints as detailed. Form to accommodate plus or minus 1 inch (25 mm) movement. Maintain visual closure. 3.04 INSTALLATION - ACOUSTICAL UNITS A. Install acoustical units in accordance with manufacturer's instructions. B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function. C. Fit border trim neatly against abutting surfaces. D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents. E. Cutting Acoustical Units: Cut to fit irregular grid and perimeter edge trim. 2. Make field cut edges of same profile as factory edges. 3. Double cut and field paint exposed reveal edges. F. Where round obstructions occur, provide preformed closures to match perimeter molding. G. Lay acoustical insulation for a distance of 48 inches (1219 mm) either side of acoustical partitions as indicated. H. Install hold-down clips on panels within 20 ft (6 m) of an exterior door. I. Coordinate with fire detection and suppression systems and to comply with applicable codes. A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m). B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees. A. Clean surfaces. B. Replace damaged or abraded components. END OF SECTION 095100 SECTION 096500 RESILIENT FLOORING 1.01 SECTION INCLUDES A. Resilient tile flooring. C. Installation accessories 1.02 REFERENCE STANDARDS A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020) B. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022. C. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2018). D. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021. E. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium F. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a. G. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023. A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available: and installation instructions. B. Shop Drawings: Indicate seaming plans and floor patterns. C. Verification Samples: Submit two samples, 12 by 12 inch (305 by 305 mm) in size illustrating color and pattern for each resilient flooring product specified D. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports. E. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable. F. Installer's Qualification Statement G. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. 1. One full, unopened box of each type and color. 2. Extra Wall Base: 100 linear feet (30.4 linear meters) of each type and color. 1.04 QUALITY ASSURANCE A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience. B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience. C. Testing Agency Qualifications: Independent firm specializing in performing concrete slab moisture testing and inspections of the type specified in this section. 1.05 DELIVERY, STORAGE, AND HANDLING A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run B. Store all materials off of the floor in an acclimatized, weather-tight space. C. Maintain temperature in storage area between 55 degrees F (13 degrees C) and 90 degrees F (72 degrees C). D. Protect roll materials from damage by storing on end. E. Do not double stack pallets. 1.06 FIELD CONDITIONS A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F (21 degrees C) to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F (13 degrees C). 2.01 PLANK TILE FLOORING A. Vinyl Plank Tile: Printed film type, with transparent or translucent wear layer; acoustic interlayer or backing.

C. Adhesive for Vinyl Flooring: Manufacturers: a. Basis of Design: H.B. Fuller Construction Products, Inc. TEC Flexera HT - High Tack Premium Universal PSA Adhesive: www.tecspecialty.com/#sle. b. Substitutions: Section 016000 - Product Requirements. Moldings, Transition and Edge Strips: Same material as flooring. Filler for Coved Base: Plastic. PART 3 EXECUTION 3.01 EXAMINATION A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate. B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH). 1. Test as Follows: a. Alkalinity (pH): ASTM F710. b. Internal Relative Humidity: ASTM F2170. c. Moisture Vapor Emission: ASTM F1869. 2. Conduct tests by an independent testing agency acceptable to Owner. 3. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials 4. Follow moisture and alkalinity remediation procedures in Section 090561. 3.02 PREPARATION A. Prepare floor substrates as recommended by flooring and adhesive manufacturers. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is fully cured. Clean substrate. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed. INSTALLATION - GENERAL A. Starting installation constitutes acceptance of subfloor conditions. Install in accordance with manufacturer's written instructions. Adhesive-Applied Installation: Fit joints and butt seams tightly Set flooring in place, press with heavy roller to attain full adhesion. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated. Metal Strips: Attach to substrate before installation of flooring using stainless steel screws. Resilient Strips: Attach to substrate using adhesive. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints. G. Install flooring in recessed floor access covers, maintaining floor pattern. H. At movable partitions, install flooring under partitions without interrupting floor pattern. 3.04 INSTALLATION - TILE FLOORING A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions B. Install plank tile with a random offset of at least 6 inches (152 mm) from adjacent rows. 3.05 INSTALLATION - RESILIENT BASE A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints. B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units. Install base on solid backing. Bond tightly to wall and floor surfaces. D. Scribe and fit to door frames and other interruptions. 3.06 CLEANING A. Remove excess adhesive from floor, base, and wall surfaces without damage. B. Clean in accordance with manufacturer's written instructions. 3.07 PROTECTION A. Prohibit traffic on resilient flooring for 48 hours after installation. END OF SECTION 096500 SECTION 099123 INTERIOR PAINTING PART 1 GENERAL 1.01 SECTION INCLUDES A. Surface preparation. B. Field application of paints. C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following: 1. Aluminum and galvanied metal. 2. Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and ferrous metal. 5. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment. a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated. b. In finished areas, paint shop-primed items. c. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces. d. Paint dampers exposed behind louvers, grilles, to match face panels. Do Not Paint or Finish the Following Items: 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory 2. Items indicated to receive other finishes. 3. Items indicated to remain unfinished. 4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment. 5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items. 6. Floors, unless specifically indicated. 7. Ceramic and other tiles. 9. Acoustical materials, unless specifically indicated. 10. Concealed pipes, ducts, and conduits. 1.02 DEFINITIONS A. Comply with ASTM D16 for interpretation of terms used in this section. 1.03 REFERENCE STANDARDS A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition. B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2023. C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020. D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition. E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016). F. SSPC-SP 2 - Hand Tool Cleaning; 2024. G. SSPC-SP 6 - Commercial Blast Cleaning; 2007. 1.04 SUBMITTALS A. Product Data: Provide complete list of products to be used, with the following information for each: 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel"). 2. MPI product number (e.g., MPI #47). 3. Cross-reference to specified paint system products to be used in project; include description of each system. 4. Manufacturer's installation instructions. B. Samples: Submit four paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified. 1. Where sheen is specified, submit samples in only that sheen. 2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required. 3. Allow 30 days for approval process, after receipt of complete samples by Architect. 4. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry, have been C. Certification: By manufacturer that paints and finishes comply with VOC limits specified. D. Manufacturer's Instructions: Indicate special surface preparation procedures. E. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used. F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. 1. Extra Paint and Finish Materials: 1 gal (4 L) of each color; from the same product run, store where directed. 2. Label each container with color in addition to the manufacturer's label. 1.05 QUALITY ASSURANCE A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience. 1.06 MOCK-UP A. Provide one accent wall as directed by Architect to demonstrate color and finish. B. Provide door and frame assembly illustrating paint color, texture, and finish. C. Locate where directed by Architect. D. Mock-up may remain as part of the work. 1.07 DELIVERY, STORAGE, AND HANDLING A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability. B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing. C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions. D. Handling: Maintain a clean, dry storage area to prevent contamination or damage to materials. 1.08 FIELD CONDITIONS A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations. C. Provide lighting level of 80 fc (860 lux) measured mid-height at substrate surface. PART 2 PRODUCTS 2.01 MANUFACTURERS A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions. B. Paints: 1. Behr Process Corporation: www.behr.com/#sle. 2. Pittsburgh Paints: www.ppgpaints.com/#sle. 3. Sherwin-Williams Company: www.sherwin-williams.com/#sle. C. Primer Sealers: Same manufacturer as top coats. D. Substitutions: See Section 016000 - Product Requirements. 2.02 PAINTS AND FINISHES - GENERAL A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint. 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags. 2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience. 3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with 4. Supply each paint material in quantity required to complete entire project's work from a single production run. 5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's B. Volatile Organic Compound (VOC) Content: 1. Provide paints and finishes that comply with the most stringent requirements specified in the following: a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings. b. Architectural coatings VOC limits of the State in which the Project is located. 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction. C. Flammability: Comply with applicable code for surface burning characteristics. D. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full E. Colors: To be selected from manufacturer's full range of available colors. 1. Selection to be made by Architect after award of contract.

2. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.

A. Metal: Structural steel columns, joists, trusses, beams, miscellaneous and ornamental iron, structural iron, and ferrous metal.

a. Primer: Sherwin-Williams Company; Pro Industrial Pro-Cryl Universal Primer, B6601310 Series.

b. Top Coats: Primer: Sherwin-Williams Company; Pro Industrial Acrylic Semi-Gloss, B66-650 Series.

4. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling under which they are mounted.

5. In utility areas, finish equipment, piping, conduit, and exposed duct work in colors according to the color coding scheme indicated.

3. Extend colors to surface edges; colors may change at any edge as directed by Architect.

2. Primer: Sherwin-Williams Company: Premium Wall and Wood Primer, B28W8111.

2.03 PAINT SYSTEMS - INTERIOR

B. Wood: Trim for Opaque Finish.

1. One primer coat and two top coats.

1. Latex Systems: One primer coat and two top coats.

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

208 Pirkle Ferry Road, Suite C

Cumming, GA 30040



PRINT RECORD No. DATE DESCRIPTION **Checked By** Drawn By

Job No. Date 08/01/2025

Sheet Title

SPECIFICATIONS

Sheet No.

Setting Epoxy Adhesive; 2023.

Setting and -Grout Epoxy; 2023.

Grout: 1999 (Reaffirmed 2024).

Panels/Slabs; 2020.

and Dimension Stone; 2005 (Reaffirmed 2021).

Stone Installation: 2014 (Reaffirmed 2019).

Forsyth County Reviewed 3. Top Coats: Primer: Sherwin-Williams Company; Scuff Tuff Interior Waterbased Enamel, Semi-Gloss, S26-50 Series. Sonya M. Whetstone

Final Approval Subject to Field Inspec

C. Gypsum Board:

G. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics H. Tempered Mirror Glass: Tempered safety glass, ASTM C1048; and ASTM C1036 Type I. Class 1, Quality Q2, with silvering as required. I. Adhesive: Two component epoxy type, waterproof. J. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type. K. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate. 2.03 FINISHES A. Stainless Steel: Satin finish, unless otherwise noted. B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted. C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel. D. Powder-Coated Steel: Clean, degrease, and neutralize. Follow immediately with a phosphatizing treatment, prime coat, and two finish coats of powder coat enamel. E. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices. F. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake. G. Back paint components where contact is made with building finishes to prevent electrolysis. 2.04 COMMERCIAL TOILET ACCESSORIES A. Toilet Accessories: As indicated on Drawings. B. Grab Bars: Stainless steel, smooth surface. 1. Standard Duty Grab Bars: a. Push/Pull Point Load: 250 pound-force (1112 N), minimum. b. Dimensions: 1-1/4 inch (32 mm) outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, exposed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar. c. Finish: Satin. d. Length and Configuration: As indicated on drawings. 2.05 COMMERCIAL SHOWER AND BATH ACCESSORIES A. Shower and Bath Accessories: As indicated on Drawings. 2.06 UTILITY ROOM ACCESSORIES A. Mop and Broom Holder: 0.05 inch (1.3 mm) thick stainless steel, Type 304, hat-shaped channel. 1. Holders: Three spring-loaded rubber cam holders. 2. Length: Manufacturer's standard length for number of holders. Products a. Basis of Design: Bradley Corporation; Model 9954 b. Substitutions: 016000 - Product Requirements. PART 3 EXECUTION 3.01 EXAMINATION A. Verify existing conditions before starting work. B. Verify exact location of accessories for installation. C. Verify that field measurements are as indicated on drawings. 3.02 PREPARATION A. Deliver inserts and rough-in frames to site for timely installation. B. Provide templates and rough-in measurements as required. 3.03 INSTALLATION A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings. B. Install plumb and level, securely and rigidly anchored to substrate. C. Mounting Heights: As required by accessibility regulations and indicated on Drawings. 3.04 PROTECTION A. Protect installed accessories from damage due to subsequent construction operations. END OF SECTION 102800 SECTION 104400 FIRE PROTECTION SPECIALTIES PART 1 GENERAL 1.01 SECTION INCLUDES A. Fire extinguishers. B. Fire extinguisher cabinets. C. Accessories. 1.02 REFERENCE STANDARDS A. FM (AG) - FM Approval Guide; Current Edition. B. NFPA 10 - Standard for Portable Fire Extinguishers; 2022. C. UL (DIR) - Online Certifications Directory; Current Edition. 1.03 SUBMITTALS A. Product Data: Provide extinguisher operational features, extinguisher ratings and classifications, color and finish, anchorage details, and B. Shop Drawings: Indicate locations of cabinets, cabinet physical dimensions, and rough-in measurements for recessed cabinets. C. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements. D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements. E. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements. 1.04 FIELD CONDITIONS A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients. PART 2 PRODUCTS 2.01 MANUFACTURERS A. Fire Extinguishers: 1. Activar Construction Products Group, Inc. - JL Industries: www.activarcpg.com/#sle. 2. Ansul, a Tyco Business: www.ansul.com/#sle. 3. Kidde, a unit of United Technologies Corporation: www.kidde.com/#sle. 4. Nystrom. Inc: www.nystrom.com/#sle. 5. Pyro-Chem, a Tyco Business: www.pyrochem.com/#sle. 6. Substitutions: See Section 016000 - Product Requirements. B. Fire Extinguisher Cabinets and Accessories: 1. Activar Construction Products Group, Inc. - JL Industries: www.activarcpg.com/#sle. 2. Kidde, a unit of United Technologies Corporation: www.kidde.com/#sle. 3. Larsen's Manufacturing Co: www.larsensmfg.com/#sle. 4. Nystrom, Inc: www.nystrom.com/#sle. 5. Potter-Roemer: www.potterroemer.com/#sle. 6. Substitutions: See Section 016000 - Product Requirements. 2.02 FIRE EXTINGUISHERS A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent. 1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated. B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge. 1. Class: A:B:C type. 2. Size: 10 pound (4.54 kg). 3. Finish: Baked polyester powder coat, color as selected. 4. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to 120 degrees F (49 degrees C). 2.03 FIRE EXTINGUISHER CABINETS A. Cabinet Construction: Non-fire rated. 1. Formed primed steel sheet; 0.036 inch (0.9 mm) thick base metal. B. Cabinet Configuration: Semi-recessed and recessed type. 1. Size to accommodate accessories. 2. Projected Trim: Returned to wall surface, with 1-1/2 inch (39 mm) projection, and 1-1/2 inch (39 mm) wide face. 3. Provide cabinet enclosure with right angle inside corners and seams, and with formed perimeter trim. C. Door: 0.036 inch (0.9 mm) metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with D. Door Glazing: Tempered glass, clear, 1/8 inch (3 mm) thick, and set in resilient channel glazing gasket. E. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors. F. Fabrication: Weld, fill, and grind components smooth. G. Finish of Cabinet Exterior Trim and Door: No.4 - Brushed stainless steel. H. Finish of Cabinet Interior: White colored enamel. 2.04 ACCESSORIES A. Extinguisher Brackets: Formed steel, chrome-plated. B. Lettering: "FIRE EXTINGUISHER" decal, or vinyl self-adhering, prespaced black lettering in accordance with authorities having jurisdiction PART 3 EXECUTION 3.01 EXAMINATION A. Verify existing conditions before starting work. B. Verify rough openings for cabinet are correctly sized and located. 3.02 INSTALLATION A. Install in accordance with manufacturer's instructions. B. Install cabinets plumb and level in wall openings, distance from finished floor to inside bottom of cabinet as indicated on drawings. C. Secure rigidly in place. D. Place extinguishers in cabinets. 3.03 MAINTENANCE A. Provide a separate maintenance contract for specified maintenance service. 3.04 MAINTENANCE - SELF-SERVICE FIRE EXTINGUISHERS A. Monthly Inspections: Inspect self-service fire extinguishers on monthly basis in accordance with manufacturer's instructions, and requirements of the authorities having jurisdiction (AHJ). B. Annual Inspections: Inspect self-service fire extinguishers on annual basis in accordance with manufacturer's instructions, and requirements of the authorities having jurisdiction (AHJ). C. Inspection Certification Tag: Provide new tag indicating acceptable condition of fire extinguisher, date of inspection, and name of selfservice inspector for each inspection. END OF SECTION 104400 SECTION 107316.13 METAL CANOPIES PART 1 GENERAL 1.01 SECTION INCLUDES A. Attached metal canopies 1.02 REFERENCE STANDARDS A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022. B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard. C. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021. D. ASTM A572/A572M - Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel; 2021, with Editorial E. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a. F. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021. G. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric): 2021. H. ASTM B308/B308M - Standard Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles; 2020. I. ASTM B429/B429M - Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube; 2020. J. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs; 2022. K. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile L. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021. M. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023). N. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020). O. FM DS 1-28 - Wind Design; 2015, with Editorial Revision (2022). A. Product Data: Submit product data sheets, including material descriptions and finishes, and preparation instructions and recommendations B. Shop Drawings: Prior to commencement of fabrication, submit detailed shop drawings, showing profiles, sections of components, finishes, and fastening details. C. Design Data: Submit comprehensive structural analysis of design for the specified loads. Stamp and sign calculations by professional 1. Indicate compliance with FM requirements. D. Samples for Selection: Provide the following: 1. Coating Samples: 3-inch by 3-inch (75 by 75 mm) samples in manufacturer's standard colors.

2. Fascia and Louver/Infill: 6-inch (152 mm) long indicating profile and finish.

3. Decking: 6-inch (152 mm) long indicating profile and finish. 4. Outrigger Plate and Tube Frame: 6-inch (152 mm) long indicating louvers and supports. E. Designer's Qualification Statement.

B. Package using methods that prevent damage during shipping and storage on site.

C. Store materials under cover and elevated above grade.

F. Manufacturer's Qualification Statement. G. Erector's Qualification Statement. H. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work. with manufacturer.

I. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered

1.04 QUALITY ASSURANCE A. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located. 1. Comply with applicable code for submission of design calculations as required for acquiring permits.

2. Cooperate with regulatory agency or authorities having jurisdiction (AHJ), and provide data as requested. B. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project. 1. Not less than five vears of documented experience. C. Erector Qualifications: Company specializing in performing the work of this section.

1. Not less than five years of documented experience and approved by canopy manufacturer. D. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and no more than 12 months before start of scheduled welding work. 1.05 DELIVERY, STORAGE, AND HANDLING A. Deliver materials to project site ready for erection.

1.06 WARRANTY A. Metal Canopies: Correct defective work within a two year period after Date of Substantial Completion. B. Finish Warranty: Provide manufacturer's one year warranty on factory finish against cracking, peeling, and blistering. PART 2 PRODUCTS 2.01 MANUFACTURERS A. Metal Canopies: 1. MASA Architectural Canopies: www.architecturalcanopies.com.

2. Peachtree Protective Covers: www.peachtreecovers.com. 3. Substitutions: See Section 016000 - Product Requirements. 2.02 PERFORMANCE REQUIREMENTS A. Factory Mutual Classification: Class 1 and windstorm resistance of 1-90, in accordance with FM DS 1-28. B. Design and fabricate systems to resist wind, snow, and live loads without failure, damage, or permanent deflection in accordance with

C. Thermal Movement: Thermal Movement: Design canopy system to accommodate thermal movement caused by ambient temperature range of 120 degrees F (49 degrees C) and surface temperature range of 180 degrees F (82 degrees C) without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects on assembly components. 2.03 METAL CANOPIES

A. Shop Fabricated Aluminum Canopy B. Configuration: Layout and dimensions, column layout, canopy clearance, fascia profile, and roof covering design as indicated on 1. Structural Framing System: Aluminum.

2. Covering Material: Aluminum. 3. Drainage Concept: Water collected in decking conducted into perimeter gutters and discharged through downspouts. 2.04 COMPONENTS A. Structural Aluminum Framing: Alloy and temper 6063-T5, 6063-T6, or 6061-T6. 1. Extruded Shapes and Tubes: ASTM B221 (ASTM B221M).

2. Rolled or Extruded Structural Shapes: ASTM B308/B308M. 3. Extruded Structural Pipe and Tube: ASTM B429/B429M. 4. Sheet and Plate: Alloy 5052, 5005, or 6061-T651, ASTM B209/B209M B. Covering: 1. Aluminum Decking:

D. Fabricate connections for bolt, nut, and washer connectors.

2.06 FINISHES

a. Interlocking extruded aluminum decking modules. 1) Extruded Decking: ASTM B221 (ASTM B221M), Alloy and temper 6005-T5, 6061-T6, or 6063-T6. b. Decking Orientation: As indicated on drawings. C. Anchor Bolts: ASTM A307 or ASTM A572/A572M, formed with bent shank, assembled with template for casting into concrete. 1. Minimum exposed thread of 7 inches (178 mm) above footing and 23 inch (584 mm) minimum embedment. 2. Provide nuts and washers as required for column leveling and plumbing. D. Exposed Gutters and Downspouts: Aluminum with AAMA superior organic coating, color to match canopy covering, manufacturer's

recommended size for canopy specified. 2.05 SHOP FABRICATION A. Provide a complete system ready for erection at project site. B. Shop fabricate to the greatest extent possible; disassemble if necessary for shipping. C. Weld aluminum members in accordance with AWS D1.2/D1.2M.

A. Aluminum Framing and Decking: 1. Superior Performing Organic Coatings: AAMA 2605, multiple coats, thermally cured, polyvinylidene fluoride system. 2. Color: To be selected by Architect from manufacturer's full range. 2.07 ACCESSORIES A. Structural Bolts: ASTM F3125/F3125M, Grade A325, minimum 3/4 inch (19 mm) diameter.

B. Trim, Closure Pieces, and Flashings: Same material, thickness and finish as sheet metal decking; factory-fabricated to required profiles. C. Fasteners, Non-Structural: ASTM F593 stainless steel or ASTM A307 carbon steel. PART 3 EXECUTION 3.01 EXAMINATION

A. Examine substrates and site area for conditions that might prevent satisfactory installation. B. Verify that bearing surfaces are ready to receive this work. C. Do not proceed with installation until all conditions are satisfactory. 3.02 INSTALLATION - FRAMING A. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection B. Do not field cut or alter structural members without approval.

C. After erection, prime welds, abrasions, and surfaces not shop primed. 3.03 INSTALLATION - CANOPY COVERING A. Install in accordance with manufacturer's instructions and NRCA (RM), NRCA (WM), and [FM] applicable requirements. B. Fasten metal decking to metal support members, aligned level and plumb. C. Install fascia panels, trim, flashing, and gutters and downspouts. D. Separate dissimilar metals using concealed bituminous paint.

3.04 TOLERANCES A. Maximum Variation from Level: Plus/Minus 1/8 inch (3.175 mm). 3.05 CLEANING A. Clean surfaces of dust and debris; follow manufacturer's cleaning instructions for the finish used.

E. Touch-up damaged finish coating using material provided by manufacturer to match original coating.

A. Protect canopy after installation to prevent damage due to other work until Date of Substantial Completion. END OF SECTION 107316.13

SECTION 113013 RESIDENTIAL APPLIANCES PART 1 GENERAL SECTION INCLUDES 1. Kitchen appliances. REFERENCE STANDARDS

1. UL (DIR) - Online Certifications Directory; Current Edition. SUBMITTALS 1. Product Data: Manufacturer's data indicating dimensions, capacity, and operating features of each piece of residential equipment 2. Copies of Warranties: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer

QUALITY ASSURANCE 1. Electric Appliances: Listed and labeled by UL (DIR) and complying with NEMA Standards (National Electrical Manufacturers Association). WARRANTY 1. Provide five (5) year manufacturer warranty on refrigeration system of refrigerators.

PART 2 PRODUCTS KITCHEN APPLIANCES 1. Appliances: As indicated on Drawings.. PART 3 EXECUTION EXAMINATION

Provide ten (10) year manufacturer warranty on magnetron tube of microwave ovens.

1. Verify utility rough-ins are provided and correctly located. INSTALLATION 1. Install in accordance with manufacturer's instructions. ADJUSTING

1. Adjust equipment to provide efficient operation. END OF SECTION 113013

SECTION 123600 COUNTERTOPS PART 1 GENERAL 1.01 SECTION INCLUDES

E. Installer's qualification statement.

a. Manufacturers:

a. Manufacturers:

1. Material: Steel.

1) Arborite: www.arborite.com/#sle.

2) Formica Corporation: www.formica.com/#sle.

1) Avonite Surfaces: www.avonitesurfaces.com/#sle.

2) Dupont: www.corian.com/#sle.

A. Fixed Top-Mounted Countertop Support Brackets:

3) Lamin-Art, Inc: www.laminart.com/#sle.

A. Countertops for manufactured casework. B. Wall-hung counters. 1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023. B. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016). C. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata. D. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013. E. NEMA LD 3 - High-Pressure Decorative Laminates; 2005. 1.03 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including: 1. Preparation instructions and recommendations. 2. Storage and handling requirements and recommendations.

D. Test Reports: Chemical resistance testing, showing compliance with specified requirements.

Specimen warranty. B. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other C. Verification Samples: For each finish product specified, minimum size 6 inches (150 mm) square, representing actual product, color, and

F. Installation Instructions: Manufacturer's installation instructions and recommendations. G. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces. 1.04 QUALITY ASSURANCE

A. Fabricator Qualifications: Natural Stone Institute (NSI) Accredited Natural Stone Fabricator; www.naturalstoneinstitute.org/#sle. B. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience and approved by manufacturer. 1.05 DELIVERY, STORAGE, AND HANDLING A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction. 1.06 FIELD CONDITIONS A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. PART 2 PRODUCTS

2.01 COUNTERTOPS A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise. B. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate. 1. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch (1.2 mm) nominal thickness.

> 4) Panolam Industries International, Inc: www.panolam.com/#sle. 5) Wilsonart: www.wilsonart.com/#sle b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.

c. Finish: Matte or suede, gloss rating of 5 to 20. d. Surface Color and Pattern: As indicated on drawings. 2. Exposed Edge Treatment: Molded PVC edge with T-spline, sized to completely cover edge of panel. a. Color: As indicated on drawings. 3. Back and End Splashes: Same material, same construction. 4. Fabricate in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 11 - Countertops, Custom Grade.

C. Solid Surfacing Countertops: Solid surfacing sheet or plastic resin casting over continuous substrate. 1. Flat Sheet Thickness: 1/2 inch (12 mm), minimum. 2. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.

3) LG Hausys America, Inc: www.lghausysusa.com/#sle. 4) Wilsonart: www.wilsonart.com/#sle. b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84. c. Finish on Exposed Surfaces: Polished, gloss rating of 55 to 80. d. Color and Pattern: As indicated on drawings.

3. Other Components Thickness: 1/2 inch (12 mm), minimum. 4. Exposed Edge Treatment: Built up to minimum 1-1/4 inch (32 mm) thick; edge profile as indicated on drawings. 5. Back and End Splashes: Same sheet material, square top; minimum 4 inches (102 mm) high. 6. Fabricate in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 11 - Countertops, Premium Grade.

2.02 MATERIALS A. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined. B. Joint Sealant: Mildew-resistant silicone sealant, clear. 2.03 ACCESSORIES

2. Finish: Manufacturer's standard, factory-applied, textured powder coat. a. Centerline Brackets; Front Mounting Countertop Support: www.countertopbracket.com/#sle. 2.04 FABRICATION A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush. 1. Join lengths of tops using best method recommended by manufacturer.

2. Fabricate to overhang fronts and ends of cabinets 1 inch (25 mm) except where top butts against cabinet or wall. 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes. B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.

1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue. 2. Height: 4 inches (102 mm), unless otherwise indicated. C. Solid Surfacing: Fabricate tops up to 144 inches (3,657 mm) long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions. PART 3 EXECUTION

A. Do not begin installation until substrates have been properly prepared. B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding. C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations. 3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation. B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project 3.03 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required. B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch (16 mm). C. Seal joint between back/end splashes and vertical surfaces.

3.04 TOLERANCES A. Variation From Horizontal: 1/8 inch in 10 feet (3 mm in 3 m), maximum. B. Offset From Wall, Countertops: 1/8 inch (3 mm) maximum; 1/16 inch (1.5 mm) minimum.

3.05 CLEANING A. Clean countertops surfaces thoroughly. 3.06 PROTECTION A. Protect installed products until completion of project. B. Touch-up, repair or replace damaged products before Date of Substantial Completion

END OF SECTION 123600 SECTION 124813 ENTRANCE FLOOR MATS AND FRAMES

C. Field Joints: 1/8 inch (3 mm) wide, maximum.

3.01 EXAMINATION

PART 1 GENERAL

PART 1 GENERAL

1.01 SECTION INCLUDES A. Extruded aluminum entrance floor grilles. B. Recessed mat frames. 1.02 SUBMITTALS

A. Product Data: Provide data indicating properties of walk-off surface, component dimensions and recessed frame characteristics. B. Shop Drawings: Indicate dimensions and details for recessed frame. 1. For recessed frames located within a dimensionally restricted area, show dimensions of space within which the frame will be

C. Samples: Submit two samples, 12 by 12 inch (305 by 305 mm) in size illustrating pattern, color, finish, and edging. D. Maintenance Data: Include cleaning instructions, and stain removal procedures. PART 2 PRODUCTS 2.01 MANUFACTURERS A. Entrance Floor Grilles and Gratings:

. Activar Construction Products Group - JL Industries; Entrance Grilles: www.activarcpg.com/#sle. Babcock-Davis: www.babcockdavis.com/#sle. Balco, Inc: www.balcousa.com/#sle. . Construction Specialties, Inc: www.c-sgroup.com/#sle. Pawling Corporation: www.pawling.com/#sle.

6. Reese Enterprises, Inc: www.reeseusa.com/#sle.

2.02 ENTRANCE FLOOR GRILLES AND GRATINGS - NOT USED 2.03 FABRICATION A. Construct recessed mat frames square, tight joints at corners, rigid. Coat surfaces with protective coating where in contact with

B. Fabricate mats in single unit sizes; fabricate multiple mats where indicated on drawings. PART 3 EXECUTION 3.01 EXAMINATION A. Verify that floor opening for mats are ready to receive work. 3.02 PREPARATION A. Mats: Verify size of floor recess before fabricating mats.

 B. Vacuum clean floor recess. 3.03 INSTALLATION A. Install frames to achieve flush plane with finished floor surface. B. Install walk-off surface in floor recess flush with finish floor after cleaning of finish flooring.

A. Maximum Gap Formed at Recessed Frame From Mat Size: 1/4 inch (6 mm). END OF SECTION 124813 SECTION 323113 CHAIN LINK FENCES AND GATES

1.01 SECTION INCLUDES A. Posts, rails, and frames. B. Wire fabric. C. Concertin wire. D. Concrete. E. Accessories. 1.02 REFERENCE STANDARDS

A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017. B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023. ASTM A392 - Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric; 2011a (Reapproved 2022). D. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023.

E. ASTM F567 - Standard Practice for Installation of Chain-Link Fence; 2023. F. ASTM F1043 - Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework; 2018 (Reapproved G. ASTM F1083 - Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures; 2018

H. CLFMI CLF-FIG0111 - Field Inspection Guide; 2014. I. CLFMI CLF-PM0610 - Product Manual; 2017. J. CLFMI CLF-SFR0111 - Security Fencing Recommendations; 2014.

K. CLFMI WLG 2445 - Wind Load Guide for the Selection of Line Post and Line Post Spacing; 2023.

L. FS RR-F-191/1D - Fencing, Wire and Post Metal (Chain-Link Fence Fabric); 1990. 1.03 SUBMITTALS A. Product Data: Provide data on fabric, posts, accessories, fittings and hardware. B. Design Calculations: For high wind load areas, provide calculations for fence fabric and accessory selection as well as line post spacing

and foundation details. See CLFMI WLG 2445 for line post and spacing guidance. C. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components. See CLFMI CLF-SFR0111 for planning and design recommendations. D. Manufacturer's Installation Instructions: Indicate installation requirements.

E. Fence Installer Qualification Statement. F. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines. 1.04 QUALITY ASSURANCE A. Fence Installer: Company with demonstrated successful experience installing similar projects and products, with not less than five years

of documented experience. A. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS 2.01 COMPONENTS A. Corner and Terminal Posts: 2.38 inch (60 mm) diameter. B. Top and Brace Rail: 1.66 inch (42 mm) diameter, plain end, sleeve coupled. C. Fabric: 2 inch (51 mm) diamond mesh interwoven wire, 6 gauge, 0.1920 inch (4.9 mm) thick, top selvage knuckle end closed, bottom

selvage twisted tight. D. Tension Wire: 6 gauge, 0.1920 inch (4.9 mm) thick steel, single strand. E. Tie Wire: Aluminum alloy steel wire. 2.02 MATERIALS A. Posts, Rails, and Frames:

1. ASTM A1011/A1011M, Designation SS; hot-rolled steel strip, cold formed to pipe configuration, longitudinally welded construction, minimum yield strength of 50 ksi (345 MPa); zinc coating complying with ASTM F1043 and ASTM F1083. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D. 3. Comply with CLFMI CLF-PM0610.

B. Wire Fabric: 1. ASTM A392 zinc coated steel chain link fabric. Comply with CLFMI CLF-PM0610. C. Concertina Wire: Zinc-coated steel, as indicated on Drawings.

D. Wire: E. Concrete: 1. Type specified in drawings.

2.03 ACCESSORIES A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer. B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

A. Components: Galvanized in accordance with ASTM A123/A123M, at 1.7 ounces per square foot (530 g/sq m). B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M. C. Accessories: Same finish as framing. PART 3 EXECUTION

3.01 PREPARATION A. Removal: Obstructions or debris. 3.02 INSTALLATION A. Install framework, fabric, accessories and gates in accordance with ASTM F567.

P. Perform three random field inspections confirming proper installation.

SEE SUBSEQUENT DISCIPLINE DRAWINGS FOR ADDITIONAL SPEC SECTIONS

B. Place fabric on outside of posts and rails. C. Set intermediate posts plumb, in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water D. Line Post Footing Depth Below Finish Grade: ASTM F567.

E. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567. F. Brace each gate and corner post to adjacent line post with horizontal center brace rail. Install brace rail one bay from end and gate G. Provide top rail through line post tops and splice with 6 inch (150 mm) long rail sleeves.

H. Do not stretch fabric until concrete foundation has cured 28 days. I. Stretch fabric between terminal posts or at intervals of 100 feet (30 m) maximum, whichever is less. Position bottom of fabric 2 inches (50 mm) above finished grade. K. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches (380 mm) on centers.

L. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips. M. Install bottom tension wire stretched taut between terminal posts. N. Install hardware and gate with fabric to match fence. O. Peen all bolts upon installation.

3.03 TOLERANCES A. Maximum Variation From Plumb: 1/4 inch (6 mm). B. Maximum Offset From True Position: 1 inch (25 mm). C. Do not infringe on adjacent property lines. 3.04 FIELD QUALITY CONTROL

A. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and B. Post Settings: Randomly inspect three locations against design for: Hole diameter. 2. Hole depth.

3. Hole spacing. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design. D. Concertina Wire: Randomly inspect three locations against design for: 1. Diameter of loops.

2. Quantity of loops per length of fence. Height of loops. E. Workmanship: Verify neat installation free of defects. See CLFMI CLF-FIG0111 for field inspection guidance.

A. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required. B. Clean fence with mild household detergent and clean water rinse well.

C. Remove mortar from exposed posts and other fencing material using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water D. Touch up scratched surfaces using materials recommended by manufacturer. Match touched-up paint color to factory-applied finish. END OF SECTION 323113

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SPECIFICATIONS

Sheet No.

Grind welded joints smooth.

F. Zinc Alloy: Die cast, ASTM B86.

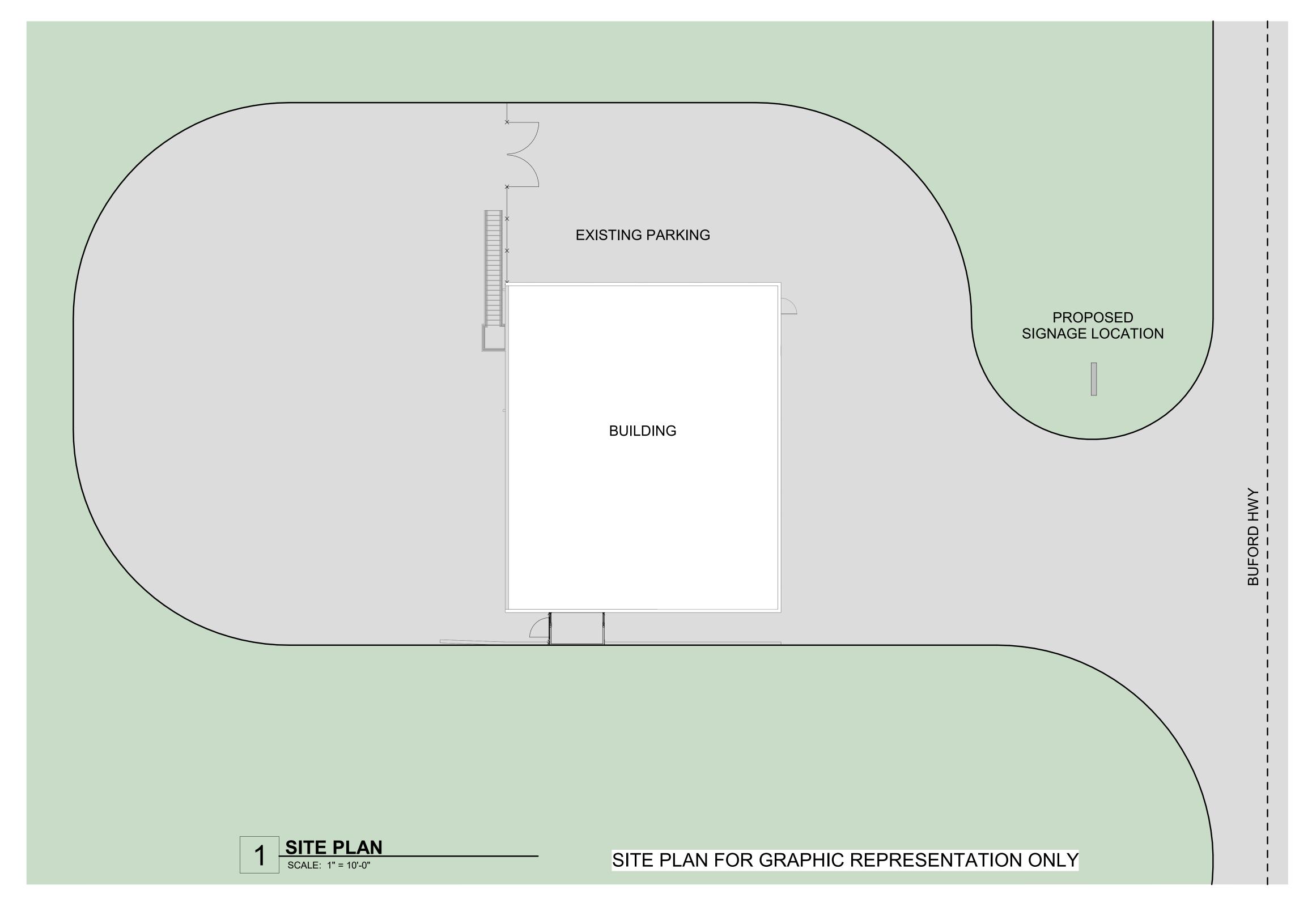
C. Stainless Steel Sheet: ASTM A666, Type 304.

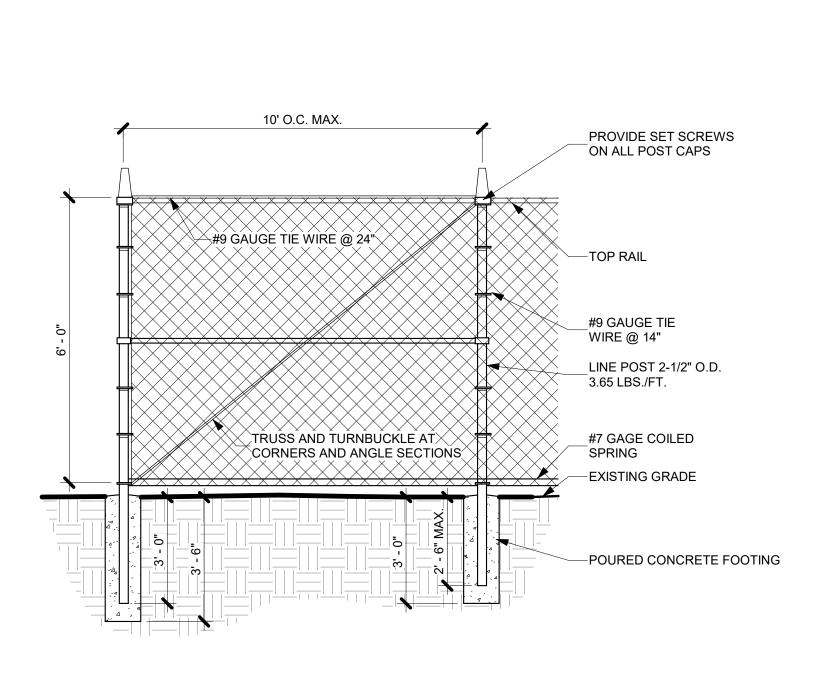
2. Fabricate units made of metal sheet of seamless sheets with flat surfaces.

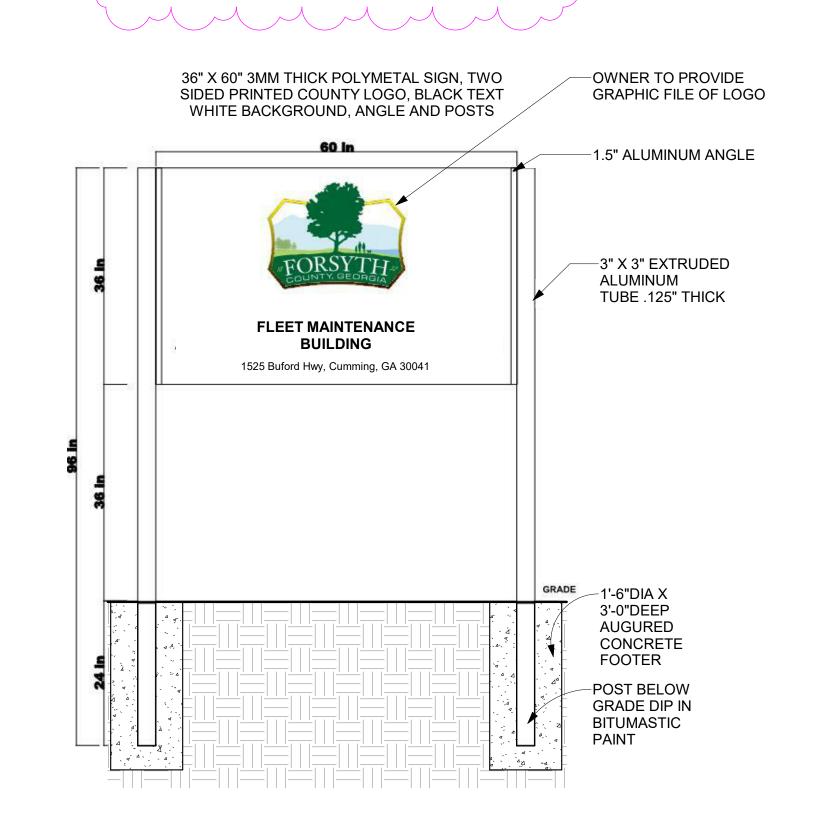
D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.

B. Keys: Provide two keys for each accessory to Owner; master key lockable accessories.

E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.







SIGNAGE TO BE REVIEWED AND PERMITTED SEPARATELY

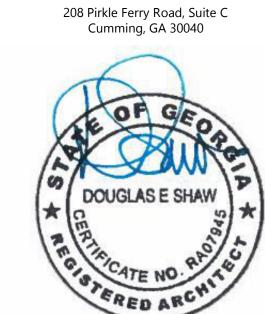
3 CHAIN LINK FENCE DETAIL

SCALE: 3/8" = 1'-0"

2 SIGNAGE

NOT TO SCALE







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Sheet Title

SITE PLAN

MECHANICAL

EXISTING LAUNDRY

EXISTING FRAME. NO DOOR.

EXISTING FLOOR TRENCH DRAIN LOCATED HERE

1 EXISTING PLAN - LEVEL 1

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

EXISTING KITCHEN

VENDING MACHINE——

EXISTING —WORK BAY—

LOCKER LOCKER LOCKER LOCKER LOCKER LOCKER

EXISTING RESTROOM

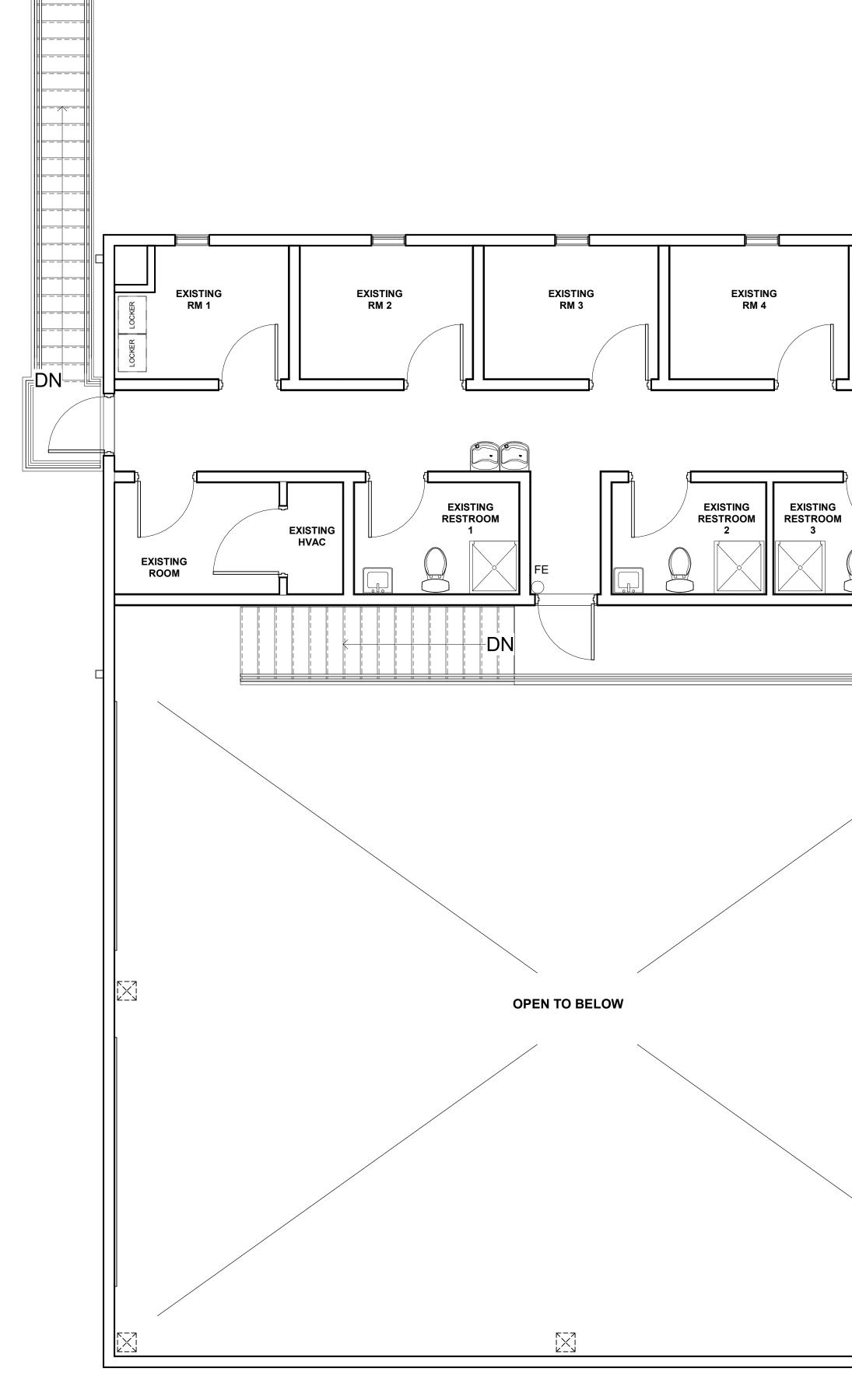
-REFRIDGERATOR

EXISTING STRUCTURE—

EXISTING RETAINING WALL

EXISTING STORAGE

EXISTING OFFICE



2 EXISTING PLAN - LEVEL 2

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

Sheet No.

LEVEL 1 & 2

EXISTING PLANS -

Drawn By

Date

08/01/2025

Sheet Title

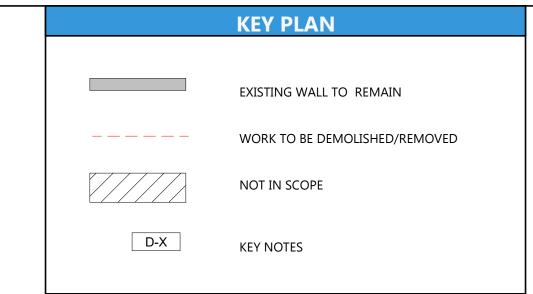
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KEY NOTES - DEMOLITION

- D-1 DEMOLISH EXISTING PARTITION IN ITS ENTIRETY TO EXTENTS INDICATED IN PREPARATION OF NEW CONSTRUCTION. COORD. W/ ARCH, MECH, ELEC, AND PLUMBING DWGS AND SPECIFICATIONS
- D-2 REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. TURN OVER
- TO OWNER IF REQUESTED BY THE OWNER. D-2.1 REMOVE EXISTING DOOR PANEL AND HARDWARE IN ITS ENTIRETY. LEAVE DOOR
- FRAME INTACT. TURN OVER TO OWNER IF REQUESTED BY THE OWNER. D-3 DEMOLISH EXISTING FLOORING TO FACE OF EXISTING CONCRETE SLAB AND BASE IN ITS ENTIRETY. PREPARE EXISTING SURFACES FOR INSTALLATION OF NEW
- D-4 DEMOLISH EXISTING CEILING TILES/GRID, LIGHT FIXTURES AND DEVISES IN ITS ENTIRETY. COORD. EXTENTS OF DEMOLITION W/ MECH, ELEC, PLUMBING DWGS
- AND SPECIFICATIONS IN PREPARATION OF NEW CONSTRUCTION D-5 GC TO TURN OVER ALL EXISTING MOVABLE WORKING EQUIPMENT TO OWNER FOR SURPLUS IN ITS ENTIRETY. ALL OTHER NON-OPERATING EQUIPMENT TO BE REMOVED AND DISPOSED OF BY THE GC.
- D-7 DEMOLISH EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY. COORDINATE EXTENTS OF DEMOLITION W/ NEW CONSTRUCTION. REFERENCE ARCH, MECH, ELEC, PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SCOPE
- D-8 REMOVE EXISTING WALL TILE TO FACE OF PARTITION MOUNTING SURFACE; PATCH AND OR REPAIR PARTITION SURFACE IN PREPARATION FOR NEW CONSTRUCTION/FINISHES. WALLS TO BE SUITABLE FOR INSTALLATION OF NEW FINISHES. GC TO PROVIDE SCOPE TO REPLACE ANY METAL STUDS AFFECTED IN DEMOLITION OF MATERIAL.
- D-9 REMOVE EXISTING FIRE EXTINGUISHER/ CABINET IN ITS ENTIRETY; STORE UNTIL SCHEDULED RE-INSTALLATION W/ NEW CONSTRUCTION. REFERENCE PLAN FOR
- NEW LOCATION. D-10 REMOVE EXISTING "IN MEMORY" PLAQUE SIGNAGE AND TURN OVER TO OWNER. D-11 REMOVE EXISTING VINYL SIGNAGE FROM DOOR AND PREP FOR EXTENTS OF NEW
- CONSTRUCTION. D-12 DEMOLISH EXISTING STAND OFF LETTER SIGNAGE FROM EXTERIOR OF BUILDING. TURN OVER TO OWNER. PATCH AND REPAIR BRICK AS REQUIRED.
- CONSTRUCTION. D-14 DEMOLISH EXISTING MILLWORK IN ITS ENTIRETY. PREP WALLS FOR EXTENTS OF NEW CONSTRUCTION.
- D-15 SAND AND PREPARE STAIR TREADS, RISERS, HAND RAIL, STRINGER, ETC. TO RECEIVE NEW PAINT IN NEW CONSTRUCTION PHASE.

D-13 DEMOLISH EXISTING WINDOW BLINDS AND PREP FOR EXTENTS OF NEW

GENERAL DEMO NOTES

- CONTRACTOR TO TAKE CARE IN REMOVAL OF ANY ITEMS SCHEDULED OR NOT SCHEDULED FOR REUSE, SUCH AS FIXTURES, CEILING TILES, DOORS, DOOR FRAMES, HARDWARE, ETC. ITEMS TO BE OFFERED TO BUILDING OWNER FOR STOCK.
- DEMOLITION SHALL BE COMPLETED DURING THE HOURS OUTLINED IN CONTRACT
- DUST FREE BARRIERS MUST BE MAINTAINED AND SECURED @ CEILING TO FLOOR BETWEEN OCCUPIED AREAS AND AREAS OF DEMOLITION EXCEPT @ ENTRANCE AND EXIT TO SPACE.
- ALL EXISTING SECURITY CAMERAS TO REMAIN. PROTECT DURING DEMOLITION.
- AREAS/WALLS DAMAGED BY CONSTRUCTION EFFORTS DUE TO DEMOLITION OF ADJACENT PARTITIONS SHALL BE PATCHED AND PREPARED FOR NEW FINISHES.
- SEE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR FULL EXTENT OF DEMOLITION.
- GENERAL CONTRACTOR SHALL COORDINATE ALL PARTITION PENETRATIONS REQUIRED FOR INSTALLATION OF RENOVATION/NEW CONSTRUCTION. DEMOLITION PLANS ARE REPRESENTATIVE OF

GENERAL CONTRACTOR SHALL COORDINATE ANY HAZARDOUS ABATEMENT W/ OWNERS

PLUMBING/FIRE PROTECTION DOCUMENTS. GENERAL CONTRACTOR SHALL COORDINATE "ALL DEMOLITION" W/ EXISTING MECHANICAL,

ELECTRICAL, PLUMBING, STRUCTURAL & CIVIL.

SHALL BE COORDINATED W/ STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, &

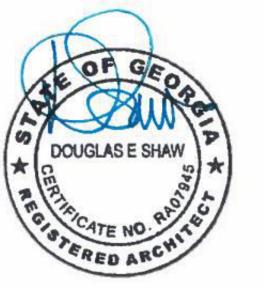
- GENERAL CONTRACTOR SHALL COORDINATE EXACT EXTENTS OF DEMOLITION W/ RENOVATION & NEW CONSTRUCTION. SEE ARCHITECTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS, NARRATIVES & SPECIFICATIONS FOR ADDITIONAL DEMOLITION W/ RESPECT TO RENOVATION/NEW CONSTRUCTION.
- IF DOCUMENTS/SPECIFICATIONS DO NOT ADDRESS RENOVATION/NEW CONSTRUCTION WHERE DEMOLITION HAS OCCURRED, IT'S THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PATCH/MATCH &/OR REPAIR ADJACENT AREAS *AFFECTED BY DEMOLITION) TO PRE-EXISTING CONDITION PRIOR TO DEMOLITION.

DEMOLITION PARAMETERS & ADDITIONAL WORK REQUIRED FOR PREPARATION OF EXISTING BUILDING

GENERAL CONTRACTOR SHALL CONSULT W/ OWNER TO DETERMINE IF OWNER WISHES TO SALVAGE & RETAIN OWNERSHIP OF ITEM/S BEING DEMOLISHED. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO MAKE EVERY EFFORT TO SALVAGE ITEM/S IN AREAS TO BE DEMOLISHED AT THE REQUEST OF THE



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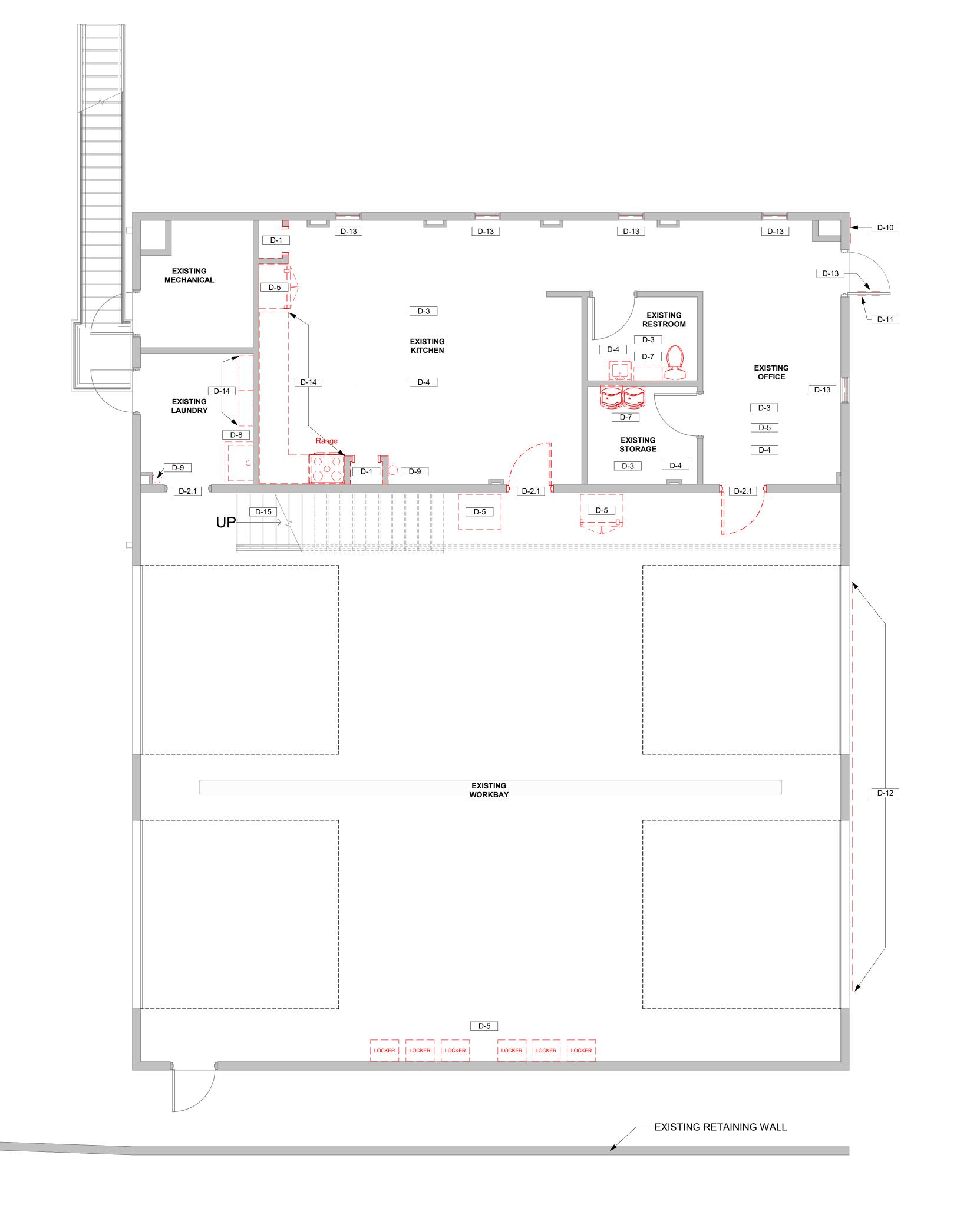
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DEMOLITION PLANS -LEVEL 1 & 2

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Sheet No.





KEY PLAN

KEY NOTES - DEMOLITION REFLECTED CEILING PLAN

KEY NOTE # DESCRIPTION

1.

DC-1 DEMOLISH EXISTING CEILING TILE, GRID, AND LIGHT FIXTURES. PREPARE FOR EXTENTS OF NEW CONSTRUCTION.

DC-2 EXISTING CEILING GRID AND TILES TO REMAIN. REPLACE WATER DAMAGED OR DISCOLORED TILES WITH EXISTING TILES FROM SPACE THAT ARE IN BETTER CONDITION. DEMOLISH EXISTING LIGHT FIXTURE. REPAIR AND PREPARE GRID FOR EXTENTS OF NEW CONSTRUCTION.

DC-3 REMOVE LAMPS NOT IN WORKING CONDITION. FIXTURES TO REMAIN.

6.

GENERAL DEMO NOTES

CONTRACTOR TO TAKE CARE IN REMOVAL OF ANY ITEMS SCHEDULED OR NOT SCHEDULED FOR REUSE,

SUCH AS FIXTURES, CEILING TILES, DOORS, DOOR FRAMES, HARDWARE, ETC. ITEMS TO BE OFFERED TO BUILDING OWNER FOR STOCK.

DUST FREE BARRIERS MUST BE MAINTAINED AND SECURED @ CEILING TO FLOOR BETWEEN OCCUPIED AREAS AND AREAS OF DEMOLITION EXCEPT @ ENTRANCE AND EXIT TO SPACE.

4. ALL EXISTING SECURITY CAMERAS TO REMAIN. PROTECT DURING DEMOLITION.

DEMOLITION SHALL BE COMPLETED DURING THE HOURS OUTLINED IN CONTRACT

5. AREAS/WALLS DAMAGED BY CONSTRUCTION EFFORTS DUE TO DEMOLITION OF ADJACENT PARTITIONS SHALL BE PATCHED AND PREPARED FOR NEW FINISHES.

6. SEE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR FULL EXTENT OF DEMOLITION.

GENERAL CONTRACTOR SHALL COORDINATE ALL PARTITION PENETRATIONS REQUIRED FOR INSTALLATION OF RENOVATION/NEW CONSTRUCTION. DEMOLITION PLANS ARE REPRESENTATIVE OF DEMOLITION PARAMETERS & ADDITIONAL WORK REQUIRED FOR PREPARATION OF EXISTING BUILDING SHALL BE COORDINATED W/ STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, & PLUMBING/FIRE PROTECTION DOCUMENTS.

GENERAL CONTRACTOR SHALL COORDINATE ANY HAZARDOUS ABATEMENT W/ OWNERS

GENERAL CONTRACTOR SHALL COORDINATE "ALL DEMOLITION" W/ EXISTING MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL & CIVIL.

10. GENERAL CONTRACTOR SHALL COORDINATE EXACT EXTENTS OF DEMOLITION W/ RENOVATION & NEW CONSTRUCTION. SEE ARCHITECTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS, NARRATIVES & SPECIFICATIONS FOR ADDITIONAL DEMOLITION W/ RESPECT TO RENOVATION/NEW CONSTRUCTION.

IF DOCUMENTS/SPECIFICATIONS DO NOT ADDRESS RENOVATION/NEW CONSTRUCTION WHERE DEMOLITION HAS OCCURRED, IT'S THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PATCH/MATCH &/OR REPAIR ADJACENT AREAS *AFFECTED BY DEMOLITION) TO PRE-EXISTING CONDITION PRIOR TO DEMOLITION.

GENERAL CONTRACTOR SHALL CONSULT W/ OWNER TO DETERMINE IF OWNER WISHES TO SALVAGE & RETAIN OWNERSHIP OF ITEM/S BEING DEMOLISHED. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO MAKE EVERY EFFORT TO SALVAGE ITEM/S IN AREAS TO BE DEMOLISHED AT THE REQUEST OF THE OWNER.

JERICHO design group

208 Pirkle Ferry Road, Suite C Cumming, GA 30040





CO FIRE STATION 15 RENOVATION

FORSYTH COUNTY

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No. DATE DESCRIPTION

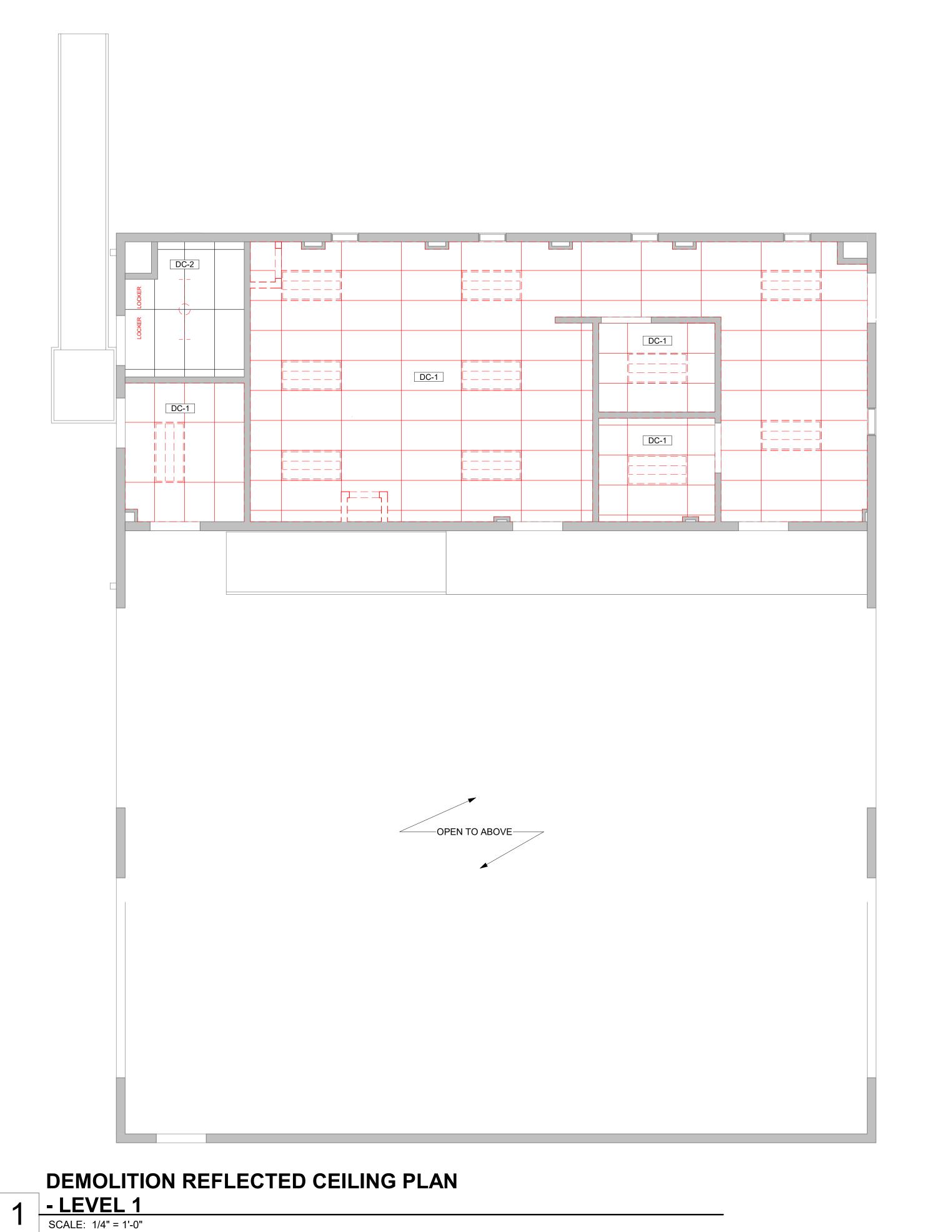
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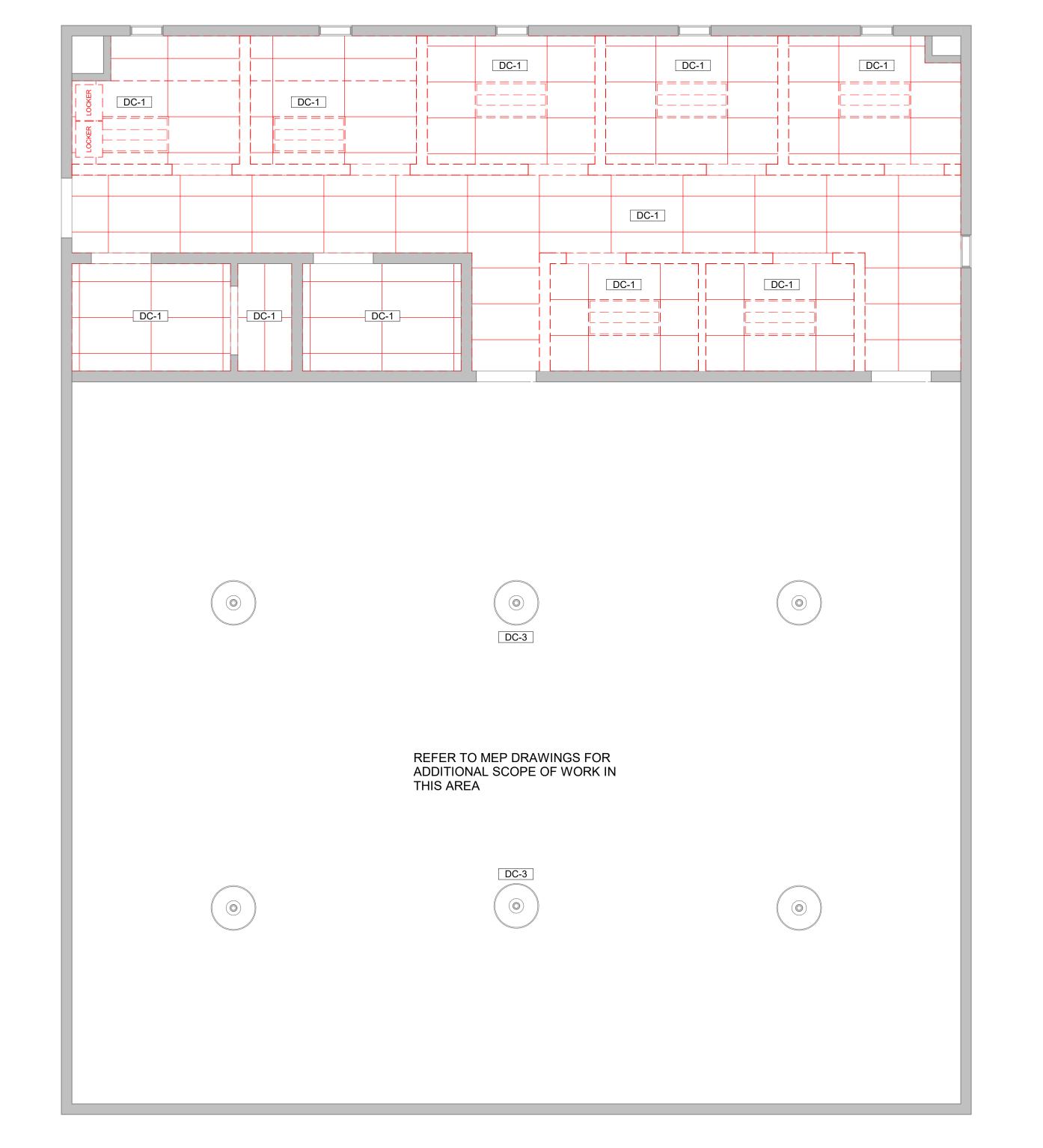
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DEMOLITION RCP LEVEL 1 & 2

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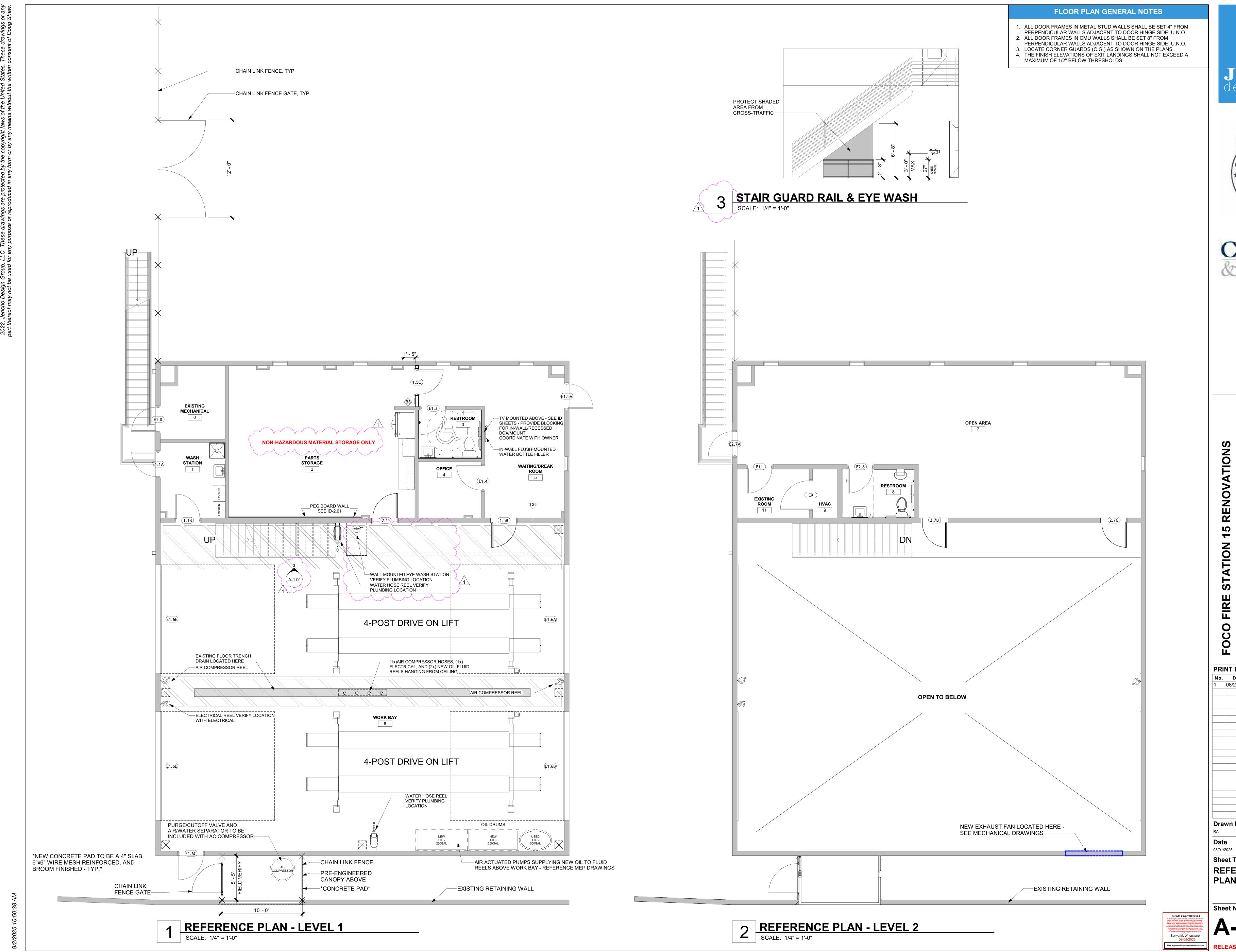


DEMOLITION REFLECTED CEILING PLAN

2 - LEVEL 2

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

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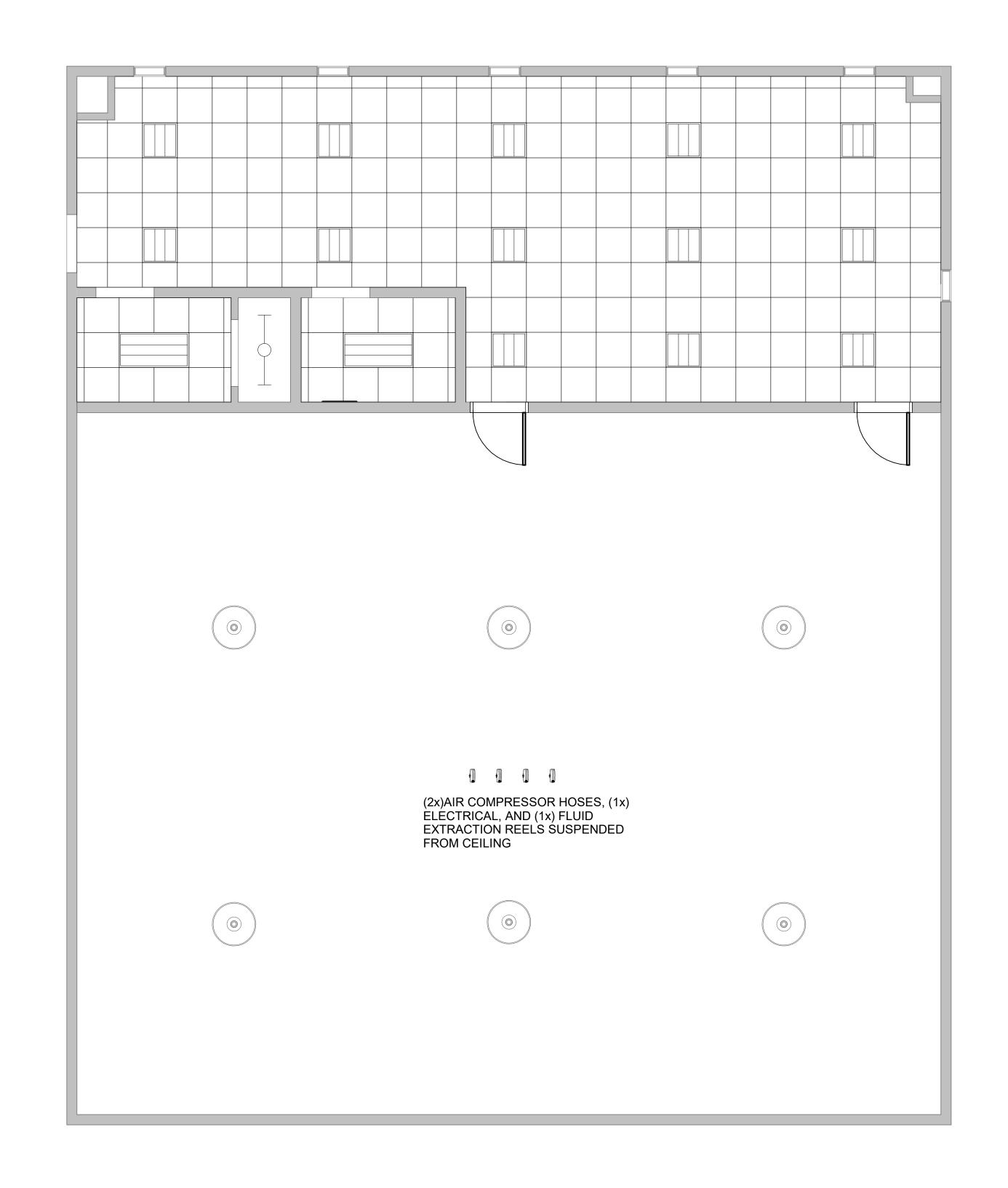
REFERENCE FLOOR PLANS - LEVEL 1 & 2

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ECTRICAL AND

RCP SHOWN ON THIS DOCUMENT IS FOR GRAPHIC ILLUSTRATION ONLY AND SHALL NOT BE USED AS AN ACCURATE REPRESENTATION OF MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK.



DOUGLAS E SHAW

REPARED ARCHITE

208 Pirkle Ferry Road, Suite C Cumming, GA 30040

CONVEN

IRE STATION 15 RENOVATION

FORSYTH COUNTY

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No. DATE DESCRIPTION

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Date Job No.

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Sheet Title

REFLECTED CEILING PLANS - LEVEL 1 & 2

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Code Complance, it does not provide a construction of the construction. Any or con

7' - 10" ACT-1)

7' - 10" ACT-1

USED OIL -500GAL

7' - 10" ACT-1

OPEN TO ABOVE

7' - 10" ACT-1)

ARCHITECT IN WRITING.

9. ALL EXPOSED CEILINGS PAINTED WITH DRYFALL, U.N.O.

			DO	OR				FRAME			DETAILS		DOOR	
NO.	ELEVATION	WIDTH	HEIGHT	THICK.	MATL.	FINISH	ELEVATION	MATL.	FINISH	HEAD	JAMB	SILL	HARDWARE	NOTES
I.1B	F	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1		PTD				6.0	DOOR PANEL REPLACEMENT ONLY - EXISTING FRAME - FIELD VERIFY DIMENSIONS
1.5B	HG	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1		PTD				6.0	DOOR PANEL REPLACEMENT ONLY - EXISTING FRAME - FIELD VERIFY DIMENSIONS. INCLUDE SMOKE SEAL.
.5C	F	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1	HM	PTD	4/A-1.01	3/A-1.01		5.0	
2.1	HG	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1		PTD				5.0	DOOR PANEL REPLACEMENT ONLY - EXISTING FRAME - FIELD VERIFY DIMENSIONS. INCLUDE SMOKE SEAL.
2.7B	HG	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1		PTD				6.0	DOOR PANEL REPLACEMENT ONLY - EXISTING FRAME - FIELD VERIFY DIMENSIONS
2.7C	HG	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PTD	1		PTD				6.0	DOOR PANEL REPLACEMENT ONLY - EXISTING FRAME - FIELD VERIFY DIMENSIONS

DOOR HARDWARE TYPE																																												
		C	LOS	SER			Н	INGE	ES							•	TRIM	/1								H	IAND	LES	ET /	LOC	KSE	T / L	ATC	Н			S	ECI	JRIT	ΥE	ETC) .		
HARDWARE CODE	APPLICATION	STANDARD CLOSER	CLOSER W/ STOP, HOLD OPEN	3	CONTINUOUS HINGE	OFFSET PIVOTS	STANDARD HINGE	BALL-BEARING HINGE	NON-FERROUS BB WITH N.R.P.	CONCEALED PIVOTS	HINGE	WEATHERSTRIP / GASKETING	BUMPERS	FI OOR SWEEP	WALL-MOUNT DOOR STOP	KICK-DOWN HOLD OPEN	FLOOR STOP	RAIN DRIP	MOP PLATE	KICK PLATE	ARMOR PLATE	LOCK GUARD	MODELINE OVI INDEP (DEAD BOLT)	ONT PULL & PUSE	ERSET	ENTRY LOCKSET	OFFICE LEVERSET	OFFICE LOCKSET	STOREROOM LEVERSET	FRIVACT LOCKSET	PANIC BAR EXIT DEVICE	PUSH/PULL LEVERSET WITH PLATE	EXTENDED DECORATIVE PULL	LADDER STYLE BACK TO BACK	RY LOCKSET	SE PULL (RECESS PULL)	30LTS	ב ב ב ב	IC CARD READ!	IMAGINETIC LOCK PLATE & COVER		FIRE ALARM SYSTEM	HARDWARE COMMI	ENTS
INT-LOCK	MGR OFFICES (WOOD OR HM)							•				-	•				•											•		•														
INT-OFFICE	OFFICE DOOR (WOOD OR HM)							•					•				•					-	•		•		•																	
INT-REST	RESTROOM DOOR	•						•					•				•						•							•														
INT-ST	STORAGE DOOR	•					•						•				•												•								•							
INT-COR	CORRIDOR DOOR (WOOD OR HM)	•						•					•				•								•												•							
INT-ST-LK	JANITORS CLOSET, TEL DATA	•						•					•		\perp	•	•		•									•	\perp															
INT-ENT	INTERIOR ENTRANCE DOOR			•				•					•				•			•						•											(•	•					

DOOR HARDWARE SCHEDULE - SEE SPECIFICATIONS 08 7100 FOR DETAILS

SET 1.0 - EXTERIOR - OPEN AREA

- 1 CONTINUOUS HINGE	CFS CP-HD1 x Length Required		PE
- 1 RIM EXIT DEVICE, EXIT ONLY	43 8810 EO	US32D	SA
- 1 SURFACE CLOSER	UNI7500	600x689	NO
- 1 KICK PLATE	K1050 10" high CSK BEV	US32D	RO
- 1 GASKETING	303CSTST (Head & Jambs)		PE
- 1 RAIN GUARD	346C x Width of Frame Head		PE
- 1 SWEEP	315CN x Door Width		PE
- 1 THRESHOLD	2009APK x Length Required x MSES25SS		PE

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Provide ANY and ALL necessary blankouts and cover plates for the frame and door.

SET 2.0 - EXTERIOR - WORK BAY DOOR: E1.6C

- 1 CONTINUOUS HINGE	CFS CP-HD1 x Length Required		PE
- 1 RIM EXIT DEVICE, NIGHTLATCH	DG1 64 16 43 8804 ETMD	US32D	SA
- 2 PERMANENT CORE	DGI 6300	US15	SA
- 1 SURFACE CLOSER	UNI7500	600x689	NO
- 1 KICK PLATE	K1050 10" high CSK BEV	US32D	RO
- 1 GASKETING	303CSTST (Head & Jambs)		PE
- 1 RAIN GUARD	346C x Width of Frame Head		PE
- 1 SWEEP	315CN x Door Width		PE
- 1 THRESHOLD	2009APK x Length Required x MSES25SS		PE

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Provide ANY and ALL necessary blankouts and cover plates for the frame and door.

SET 3.0 - EXTERIOR - MECHANICAL, WASH STATION DOOR: E1.0, E1.1A

			5-
- 1 CONTINUOUS HINGE	CFSCP-HD1 x Length Required		PE
- 1 STOREROOM/CLOSET LOCK	DG164 10XG04 LMD	US26D	SA
- 1 PERMANENT CORE	DGI 6300	US15	SA
- 1 SURFACE CLOSER	UNI7500	600x689	NO
- 1 KICK PLATE	K1050 10" high CSK BEV	US32D	RO
- 1 GASKETING	303CSTST (Head & Jambs)		PE
- 1 RAIN GUARD	346C x Width of Frame Head		PE
- 1 SWEEP	315CN x Door Width		PE
- 1 THRESHOLD	2009APK x Length Required x MSES25SS		PE
- 1 LATCH PROTECTOR	320CXL	US32D	RO
Natar			
Notes:	are the supplier shall field inspect existing condi		

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Provide ANY and ALL necessary blankouts and cover plates for the frame and door.

SET 4.0 - EXTERIOR - WAITING/BREAK ROOM DOOR: E1.5A

- 1 CONTINUOUS HINGE - 1 ENTRY/OFFICE LOCK - 1 PERMANENT CORE - 1 SURFACE CLOSER - 1 KICK PLATE - 1 GASKETING - 1 RAIN GUARD - 1 SWEEP	CFS_CP-HD1 x Length Required DG164 10XG05 LMD DGI 6300 UNI7500 K1050 10" high CSK BEV 303CSTST (Head & Jambs) 346C x Width of Frame Head 315CN x Door Width	US26D US15 600x689 US32D	PE SA SA NO RO PE PE PE
- 1 SWEEP - 1 THRESHOLD	315CN x Door Width 2009APK x Length Required x MSES25SS		PE PE
- 1 LATCH PROTECTOR	320CXL	US32D	RO

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

-Provide ANY and ALL necessary blankouts and cover plates for the frame and door.

DOOR HARDWARE SCHEDULE - SEE SPECIFICATIONS 08 7100 FOR DETAILS

SET 5.0 - PARTS STORAGE DOOR: 1.5C, 2.1

- 1 KICK PLATE K1050 10" high CSK BEV US32D RO - 1 FLOOR/WALL STOP (AS REQ'D) 403 (or) 446 (As Required) US26D RO - 3 SILENCER 608-RKW RO	- 1 FLOOR/WALL STOP (AS REQ'D)	403 (or) 446 (As Required)		RO
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-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Where possible install closer on door for optimum aesthetics.

SET 6.0 - OPEN AREA, WAITING/BREAK ROOM, WASH STATION DOOR: 1.1B, 1.5B, 2.7B, 2.7C

 3 HINGE, FULL MORTISE 1 CLASSROOM LOCK 1 PERMANENT CORE 1 SURFACE CLOSER 1 KICK PLATE 1 FLOOR/WALL STOP (AS REQ'D) 3 SILENCER 	TA2714 (Size as Required) DG164 10XG37 LMD DGI 6300 7500 (mount as req'd per application) K1050 10" high CSK BEV 403 (or) 446 (As Required) 608-RKW	US26D US26D US15 689 US32D US26D	MK SA SA NO RO RO RO
---	---	---	--

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Where possible install closer on door for optimum aesthetics.

SET 7.0 - OFFICE DOOR: E1.4

- 1 PERMANENT CORE DGI 6300	Size as Required) US26D XG05 LMD US26D US15 46 (As Required) US26D US15	MK SA SA RO RO RO
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-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

SET 8.0 - EXISTING ROOM DOOR: E11

- 3 HINGE, FULL MORTISE	TA2714 (Size as Required)	US26D	MI
- 1 STOREROOM/CLOSET LOCKSET	DG164 10XG04 LMD	US26D	SA
- 1 PERMANENT CORE	DGI 6300	US15	SA
- 1 SURFACE CLOSER	7500 (mount as req'd per application)	689	N
- 1 KICK PLATE	K1050 10" high CSK BEV	US32D	R
- 1 MOP PLATE	K1050 4" high CSK BEV	US32D	R
- 1 FLOOR/WALL STOP (AS REQ'D)	403 (or) 446 (As Required)	US26D	R
- 1 GASKETING	S88BL (Head & Jambs)		PE

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed. -Where possible install closer on door for optimum aesthetics.

DOOR GENERAL NOTES

- REFER TO ADA REGULATORY DIAGRAMS FOR MORE INFORMATION SEE GENERAL SPECIFICATIONS FOR DOOR AND FRAME FINISHES.
- . ALL DOOR HARDWARE SHALL BE HANDICAP ACCESSIBLE, COMPLYING WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. WHERE DISCREPANCIES OCCUR BETWEEN THE DOOR SCHEDULE NOTES AND HARDWARE SPECIFICATIONS, NOTIFY THE ARCHITECT OF DISCREPANCIES TO RECEIVE DIRECTION ON HOW TO PROCEED.
- . TIE MAGNETIC LOCK INTO FIRE ALARM. REFER TO THE PARTITION TYPE OR APPLICABLE WALL SECTION AND
- THEN TO TYPICAL DOOR DETAILS FOR APPROPRIATE DETAIL. 6. ALL EXTERIOR HOLLOW METAL DOORS TO BE INSULATED AND
- GALVANIZED. 7. ALL EXTERIOR DOORS TO BE WEATHER STRIPPED AND HAVE CLOSERS.
- 8. ALL FIRE RATED DOORS TO HAVE CLOSERS 9. PROVIDE METAL TRANSITION STRIPS AT THE FOLLOWING FLOORING TRANSITIONS: WOOD-PORCELAIN, WOOD-CARPET, CARPET-PORCELAIN.

HG

DOOR HARDWARE SCHEDULE - SEE SPECIFICATIONS 08 7100 FOR DETAILS

TA2714 (Size as Required)

K1050 10" high CSK BEV

TA2714 (Size as Required)

10XU15 LMD

608-RKW

K1050 4" high CSK BEV

608-RKW

RM817

7500 (mount as req'd per application)

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware

-At existing openings with new hardware the supplier shall field inspect existing conditions prior to bidding to verify the specified hardware

US26D US26D

US32D

US32D

US26D

US15

US26D

US26D

US26D

RO

RO

SA

RO

689

SINGLE DOOR

DOUBLE DOOR F2

DOOR ELEVATIONS

FRAME ELEVATIONS

SET 9.0 - RESTROOM DOOR: E1.3, E2.8

- 1 SURFACE CLOSER

- 1 KICK PLATE

- 1 MOP PLATE

- 3 SILENCER

- 1 COAT HOOK

SET 10.0 - HVAC DOOR: E9

- 3 SILENCER

- 3 HINGE, FULL MORTISE

- 1 PASSAGE LATCH

- 3 HINGE, FULL MORTISE

- 1 PRIVACY LOCK WITH INDICATOR V33 10XU65 VSL

- 1 FLOOR/WALL STOP (AS REQ'D) 403 (or) 446 (As Required)

-Where possible install closer on door for optimum aesthetics.

- 1 FLOOR/WALL STOP (AS REQ'D) 403 (or) 446 (As Required)

will work as required. Provide alternate solutions and proposals as needed.

will work as required. Provide alternate solutions and proposals as needed.

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

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

DOOR MATERIAL TYPE

HOLLOW

DOOR AS

SEALANT

SCHEDULED-

BOTH SIDES-

METAL FRAME

STL - STEEL WD - WOOD

- FINISH TYPE ALUM - ALUMINUM STD - STAIN HM - HOLLOW METAL PTD - PAINT PF - PREFINISHED PLAM - PLASTIC LAM CLAD SCWD - SOLID CORE WOOD
- **GLAZING TYPE** FRAME MATERIAL TYPE T - CLEAR TEMPERED GLASS ALUM - ALUMINUM HM - HOLLOW METAL

ABBREVIATIONS LEGEND



-METAL STUDS -

WALL TYPE

-SOUND

-VERIFY ATTACHMENT COMPATIBLE WITH

PRE-ENGINEERED METAL BUILDING

-NEW PRE-ENGINEERED CANOPY. - BY

VERIFY TYPE/STYLE BEST SUITED FOR

THIS CONDITION (EXISTING PEMB)

Level 2 11' - 4"

-NEW CHAIN LINK FENCE, TYP.

-EXISTING RETAINING WALL

Level 1 0' - 0"

-NEW CHAIN LINK FENCE GATE, TYP.

OTHERS

INSULATION

(BOTH SIDES)

-5/8" GYPSUM BOARD

SEE PLANS FOR



Cumming, GA 30040



-METAL STUDS -SEE PLANS FOR SOUND WALL TYPE INSULATION-**BOX HEADER -**-5/8" GYPSUM BOARD SEE STRUCTURAL (BOTH SIDES) -SEALANT BOTH SIDES -HOLLOW METAL FRAME -DOOR AS SCHEDULED

PRINT RECORD No. DATE DESCRIPTION **Checked By** Drawn By RA/HS Date Job No. 08/01/2025

Sheet Title

EXTERIOR ELEVATIONS AND DOOR DETAILS

Sheet No.

Forsyth County Reviewed

WEST ELEVATION

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

NEW CHAIN LINK

FENCE GATE, TYP. **NEW CHAIN LINK** FENCE, TYP.

PLASTIC LAMINATE AND COUNTERTOPS PL-1: PLASTIC LAMINATE MFR: WILSONART COLOR: LOFT OAK, 7968K-12 FINISH: SOFTGRAIN FINISH **INSTALL:** CABINETS VERTICAL EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN SOLID SURFACE HI-MACS URBAN CONCRETE

SS-1: MFR: COLOR: FINISH: POLISHED THICKNESS: 1CM

RB-1: WALL BASE MFR: MOHAWK STYLE: 4" COVE COLOR: TBD LOCATION:

AS SPECIFIED TB-1: TILE BASE MFR: STP STYLE: **STRIATIONS** COLOR: GRAY MATTE FINISH: SIZE: 6" X 24" **GROUT:** MAPEI ALABASTER INSTALL MONOLITHIC.WALL AND FLOOR GROUT LINES TO ALIGN LOCATION: RESTROOMS **CONTACT:** SEE FT-1

WB-1: WINDOW BLINDS MFR: SWF CONTRACT STYLE: CLASSICS 1" CORDLESS MINI BLINDS

MATERIAL: ALUMINUM

WINDSWEPT PEWTER

EXTERIOR WINDOWS

STAINLESS STEEL

USE AT TILE BASE

METAL COVE TRIM

STAINLESS STEEL

INSTRUCTIONS.

SMOOTH SURFACE

4'0" X 8'0" SHEETS

METAL TRIM

SCHLUTER

RESTROOMS

SCHLUTER

DILEX-AHK

S1005-A

FINEC-SQ

LOCATIONS: ALL EXTERIOR DOORS WITH LITES AND ALL

INSTALL ACCORDING TO MANUFACTURER

FIBERGLASS REINFORCED PLASTIC

PROVIDE WITH BATTEN, PVC TRIMS AND

BASE ON WALLS IN JANITOR & WAITING.

RUN HORIZONTALLY TO BE 48" HIGH ABOVE

CORNER GUARDS AS REQUIRED.

MARLITE. BASIS OF DESIGN

COLOR:

MT-1:

MFR:

STYLE:

FINISH:

NOTES:

MCT-1

MFR:

STYLE:

FINISH:

NOTES:

FRP-1:

MFR:

SIZE:

CLASS:

NOTES:

PATTERN

COLOR:

LOCATION:

1. ALL INTERIOR FINISH SPECIFICATIONS ARE INCLUDED HEREIN OR IN THE ATTACHED SPECIFICATIONS IF APPLICABLE. DISCREPANCIES, OMISSIONS AND DISCONTINUED OR DELAYED MATERIALS ARE TO BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY FOR RESOLUTION PRIOR TO PROCEEDING. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR DISCREPANCIES OR OMISSIONS THAT ARISE DUE TO CHANGES BY ANOTHER PARTY AFTER INITIAL DRAWING ISSUANCE DATE UNLESS RECORDED AS A REVISION BY ARCHITECT.

FINISH PLAN GENERAL NOTES

2. SUBSTITUTIONS OF FINISH MATERIALS MUST BE SUBMITTED IN WRITTEN FORM AND ACTUAL SAMPLES PROVIDED. FOR REVIEW BY THE DESIGN PROFESSIONAL AND USER GROUP. CONSTRUCTION PROFESSIONAL MUST RECEIVE APPROVAL SIGNATURE BEFORE PROCEEDING. REVIEW OF SUBSTITUTIONS DUE TO A CHANGE IN THE ORIGINAL

SCHEDULE OR BUDGET MAY BE CONSIDERED ADDITIONAL SERVICES. . INSTALL ALL FINISH MATERIALS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. REMEDIATION OF MOISTURE IN THE CONCRETE, AS IT RELATES TO THE FLOORING MATERIAL AND ITS INSTALLATION MUST BE STRICTLY

ADHERED TO IN ORDER TO AVOID RISK OF VOIDING WARRANTY 4. ONLY ONE DYE-LOT OF EACH STYLE AND COLOR SPECIFIED IN THE FINISH SCHEDULE SHALL BE USED.

5. REMOVE FINISH MATERIALS FROM PACKING AND ALLOW TO ACCLIMATIZE TO AREA OF INSTALLATION ACCORDING TO MANUFACTURER'S SPECIFICATIONS. 6. ALL SURFACES WHICH ARE TO RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH FOR SCHEDULE

FINISH MATERIAL. 7. ALL MISCELLANEOUS GRILLES, PLATES, ETC. OCCURRING ON WALLS OR CEILINGS ARE TO BE FINISHED TO MATCH WALL OR CEILING ON WHICH THEY OCCUR. CONSULT DESIGN PROFESSIONAL ON FINAL FINISH.

8. ALL PAINTED SURFACES ARE TO RECEIVE ONE PRIME COAT AND A MINIMUM OF TWO FINISH COATS. APPLY ADDITIONAL COATS OF PRIME AND FINISH PAINT AS REQUIRED UNTIL EXISTING UNDERCOAT OR OTHER CONDITIONS ARE FULLY CONCEALED AND PAINT FILM IS OF A UNIFORM FINISH, COLOR AND APPEARANCE. REFER TO SPECIFICATION SECTION 099123 INTERIOR PAINTING FOR CLARIFICATION. 9. PAINT FOR DOOR FRAMES AND DOORS WHEN APPLICABLE, WILL BE SHERWIN WILLIAMS PRO-CLASSIC

10. - NOTE REMOVED 11. PRIOR TO FLOORING INSTALLATIONS. PERFORM A CALCIUM CHLORIDE MOISTURE TEST TO ENSURE MOISTURE CONTENT MEETS MANUFACTURER'S ACCEPTABLE LEVELS. CONSTRUCTION PROFESSIONAL TO DOCUMENT AND

WATERBORNE ACRYLIC SEMI-GLOSS B-31 SERIES, BASIS OF DESIGN.

12. FLOORING TRANSITIONS WILL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION., U.N.O. 13. WHERE FLOORING MATERIALS OF DIFFERING THICKNESS MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES

AND SMOOTH AS REQUIRED. 14. INSTALL CERAMIC, PORCELAIN AND STONE TILES WITH MANUFACTURER'S MINIMUM RECOMMENDED GROUT WIDTH, U.N.O.; GROUT TO BE SEALED

15. INSTALL REDUCER STRIPS WHERE FLOORING MATERIALS CHANGE, U.N.O., INSTALL VINYL REDUCER STRIP TO MATCH SCHEDULED BASE. 16. PAINT FIRE EXTINGUISHER CABINETS SEMI-GLOSS TO MATCH WALL ON WHICH IT OCCURS.

17. BASE CABINET PLASTIC LAMINATE TOE KICKS TO MATCH CORRESPONDING BASE CABINET PLASTIC LAMINATE SPECIFICATION, U.N.O.

18. ALL AREAS TO RECEIVE LVP. RUBBER BASE, EGGSHELL WALL PAINT AND SEMI-GLOSS DOOR FRAME, U.N.O. 19. ALL WET WALLS TO RECEIVE PORCELAIN TILES TO HAVE CEMENT BACKER BOARD 20. SUBMIT SAMPLES OF ALL FINISH MATERIALS TO THE DESIGN PROFESSIONAL FOR APPROVAL PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. SUBMIT ACTUAL COLOR AND FINISH OF PAINT ON 8-1/2" X 11" SAMPLES. SAMPLES OF NATURAL STONE OR OTHER MATERIAL WITH WIDE VARIATIONS SHALL COME FROM ACTUAL MATERIAL TO BE USED.

21. PREPARE SURFACES FOR ACCEPTING OF FINISHES PER MANUFACTURER'S RECOMMENDATIONS. 22. WHEN BASE IS CONTINUOUS OR TRANSITIONED ON AN OUTSIDE CORNER WHERE FLOOR MATERIALS OF DIFFERENT THICKNESS OCCUR, SET BASE ON TOP OF LOWER FLOORING MATERIAL AND TRIM THE BOTTOM OF BASE AT THE HIGHER FLOORING SUCH THAT IT IS BOTH TIGHT TO THE FLOORING AND ALIGNS WITH THE BASE AT THE LOWER FLOORING AT THE TOP EDGE. NOTE: WOOD BASE TO BE INSTALLED AFTER FLOORING IS INSTALLED. 23. PROVIDE BLOCKING IN AREAS DESIGNED TO RECEIVE OVERHEAD CABINETS OR WALL PEG BOARD.

24. IF DESIGN PROFESSIONAL'S WRITTEN DESCRIPTION OF COLOR NAME. NUMBER AND MANUFACTURER'S INFORMATION ARE IN CONFLICT, CONTACT DESIGN PROFESSIONAL FOR CLARIFICATION BEFORE ORDERING MATERIALS. 25. ALL CASEWORK TO RECEIVE TOPS FABRICATED IN SOLID SURFACE, U.N.O. REFER TO INTERIOR ELEVATIONS FOR

CLARIFICATION. 26. PROVIDE BLOCKING IN AREAS DESIGNATED TO RECEIVE OVERHEADS IN ALL OFFICES. TYPICAL CONDITION TO OCCUR AT WALL PARALLEL TO RETURN

27. COVERPLATES ON DEVICES TO MATCH EXISTING WITH RECEPTACLES TO MATCH EXISTING.

MILLWORK GENERAL NOTES

REFER TO INTERIOR ELEVATIONS, WHICH IDENTIFY THE ROOM AND WALL (NORTH, SOUTH, EAST OR WEST) ON WHICH THE CABINETRY IS LOCATED. COORDINATE ALSO WITH FLOOR PLANS. 2. SPECIALIZED CABINET SECTIONS ONLY ARE KEYED OR NOTED ON

CABINET ELEVATIONS. OTHER CABINET SECTIONS ILLUSTRATE TYPICAL CONSTRUCTION & NOT EVERY DOOR AND/OR DRAWER VARIATION IS

ALL WORKSURFACES & COUNTERTOPS ARE SS-1 U.N.O. 4. PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETRY (INCLUDING KNEE SPACES). PROVIDE PLAM CLAD TRIM AND FILLER PANELS WHERE EQUIPMENT IS

LOCATED WITHIN CABINET UNITS. 6. PROVIDE SIDE SPLASHES WHERE COUNTERTOPS ABUT WALLS AT

SIDES - U.N.O. PROVIDE COUNTERTOP BRACE SUPPORTS AT 48" O.C. MAX. @ KNEE SPACES & LAVATORY COUNTERS, U.N.O. 8. PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETRY ATTACHED

9. CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O ON ELEVATION(S). 10. - NOTE REMOVED -

TO WALLS. SEE DETAILS FOR ATTACHMENT DETAILS.

11. PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF AND SEAL TIGHT ALL CONCEALED OPENINGS

CABINET HARDWARE:

DOOR HINGES TO BE BLUM 71T5580 CHROMED, CONCEALED, SELF-CLOSING DRAWER SLIDES TO BE HEAVY DUTY ACCURIDE HAFELE #3634, DRAWER PULLS TO BE MOCKETT DP55A STAINLESS STEEL OR APPROVED **EQUALS**

MILLWORK REVEALS: PITTCON, VENEER CHANNEL, VPR75-38/38

ALL P-LAM CASEWORK TO PER AWI STANDARDS

12. ALL MILLWORK/CASEWORK TO BE PL-1 U.N.O.

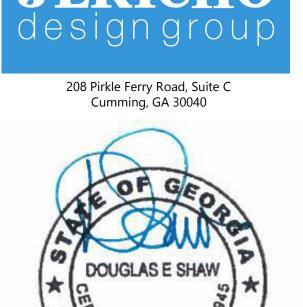
INTERIOR ELEVATION NOTES

. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT OUTLINED IN "EQUIPMENT LEGEND" WITH OWNER & OWNER'S MEDICAL EQUIPMENT REPRESENTATIVE. THIS INCLUDES VERTICAL AND HORIZONTAL MOUNTING HEIGHTS OF ALL DEVICES. COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING. THE ARCHITECT SHALL RECEIVE SHOP DRAWINGS SHOWING FINALIZED SELECTION OF EQUIPMENT AND SPECIFICA MODEL NUMBERS REVIEWED BY DESIGN TEAM/ENGINEERS PRIOR TO PROCEEDING WITH SCOPE OF WORK.

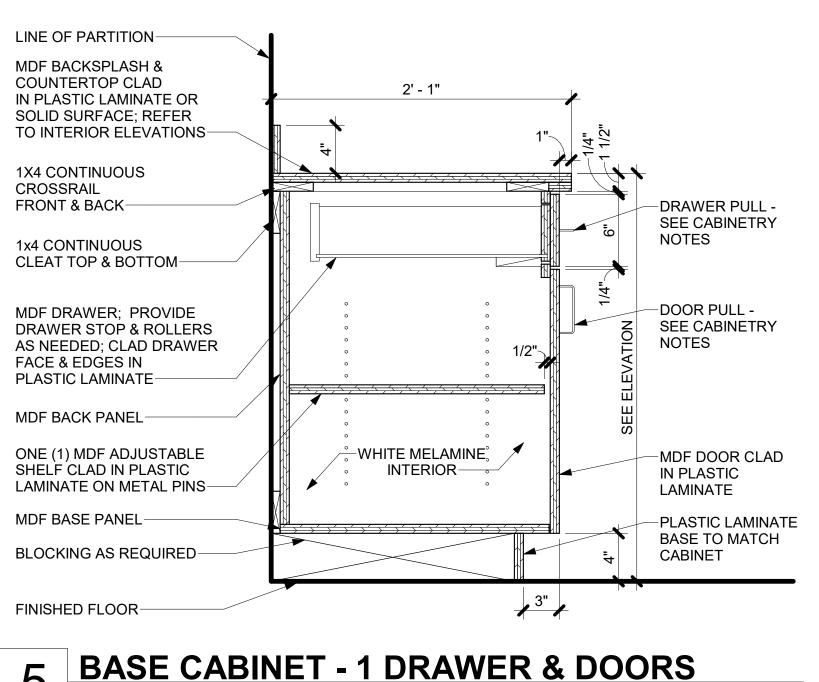
. ELECTRICAL OUTLETS ARE ONLY SHOWN FOR COORDINATION WITH EQUIPMENT, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.. . LOW VOLTAGE BY OWNER'S REPRESENTATIVE.

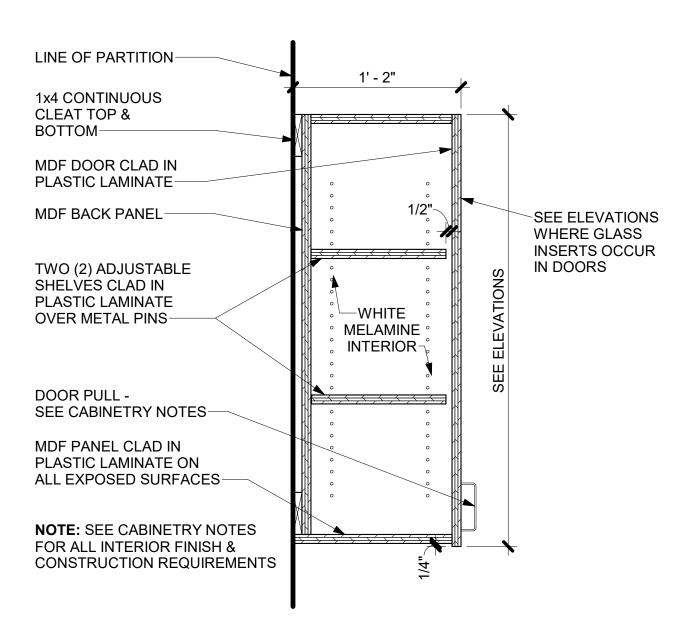
I. FURNITURE SHOWN IS TO BE PROVIDED BY OWNER U.N.O. GENERAL CONTRACTOR TO COORDINATE WITH OWNER ON DELIVERY SCHEDULE.



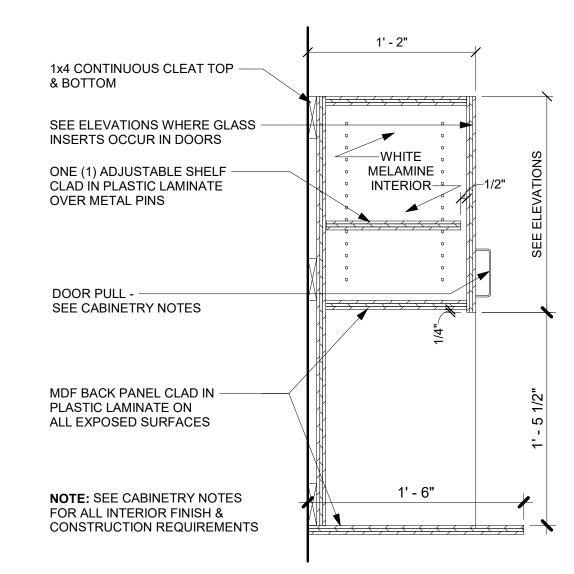




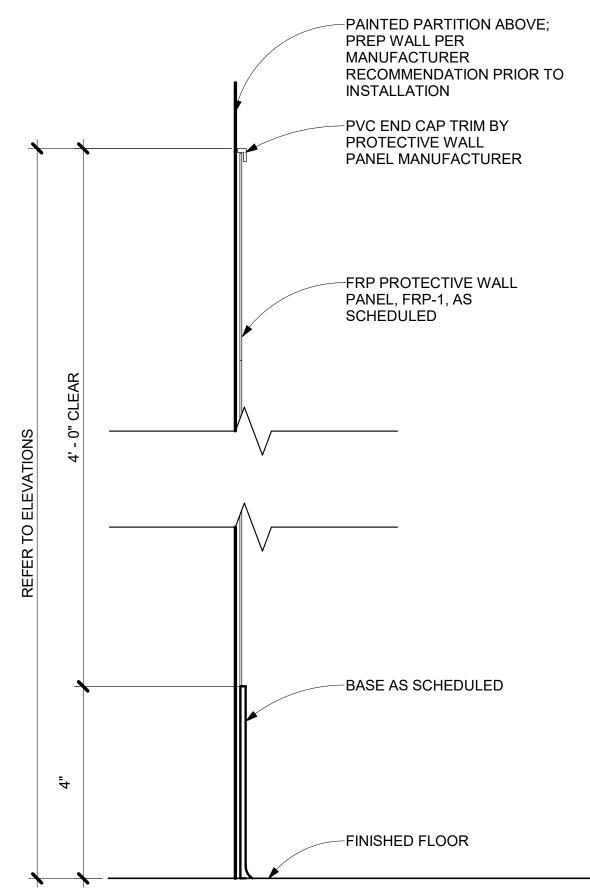




UPPER CABINET - DOOR



UPPER CABINET - DOOR WITH SHELF



WALL PROTECTION DETAIL

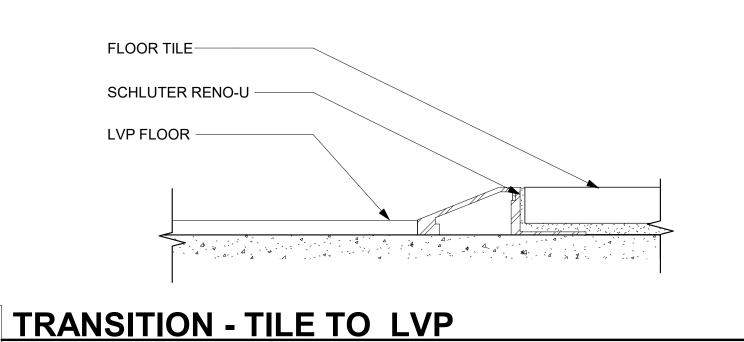
PRINT RECORD No. DATE **DESCRIPTION Checked By** Drawn By Checker Author Job No. Date 08/01/2025 Sheet Title FINISH SCHEDULE &

GENERAL NOTES

Sheet No.

RELEASED FOR PERMIT

Final Approval Subject to Field Inspect



A TANK TRANSITION LVP TO CONRETE

*** DENOTES DOOR CENTERLINE.**

IF APPLICABLE

LVP FLOORING-

REDUCER STRIP,

SEALED CONCRETE

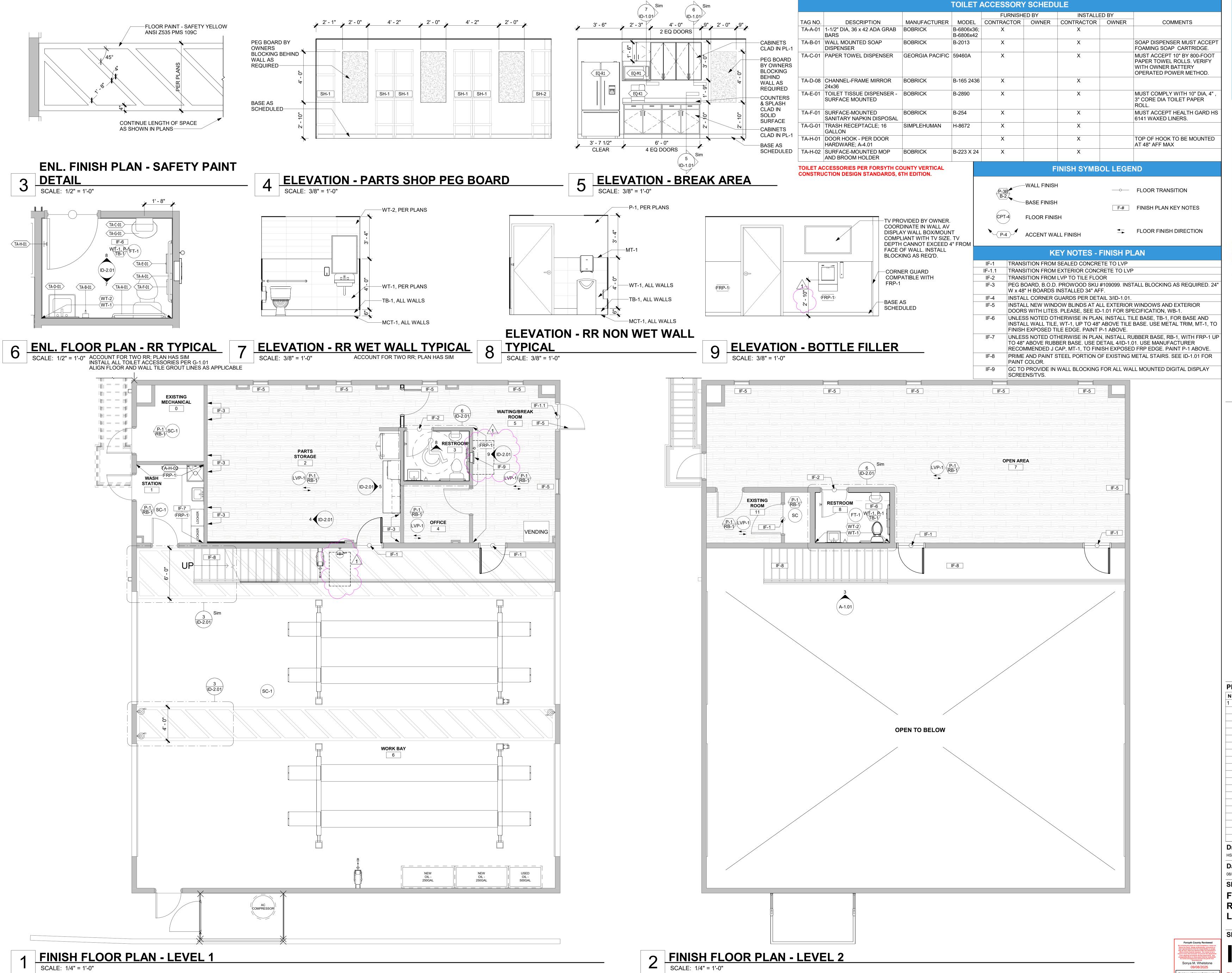
ADHESIVE:

FLOORING

PARTITION TYPE AS SCHEDULED CORNER GUARD, **COORDINATE WITH** FRP-1 SPEC

CORNER GUARD DETAIL

Forsyth County Reviewed Sonya M. Whetstone



JERICHO design group

> 208 Pirkle Ferry Road, Suite C Cumming, GA 30040





O FIRE STATION 15 RENOVATIO

PRINT RECORD

No. DATE DESCRIPTION

1 08/22/2025 PERMIT COMMENTS

Drawn By
HS

Checked By
JDG

Date Job No. 08/01/2025 25018

Sheet Title
FINISH &
REFERENCE PLAN

LEVEL 1 & LEVEL 2

Sheet No.

ID-2.01
RELEASED FOR PERMIT

GENERAL CONTRACTOR TO COORDINATE SCHEDULED ITEMS WITH OWNER AND OWNER'S EQUIPMENT REPRESENTATIVE. THIS INCLUDES VERTICAL AND HORIZONTAL MOUNTING HEIGHTS OF ALL DEVICES, COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL

FURNITURE, FIXTURE & EQUIPMENT GENERAL NOTES

- LOW VOLTAGE BY OWNER'S EQUIPMENT REPRESENTATIVE, U.N.O.
 FURNITURE & EQUIPMENT SHOWN HATCHED IS TO BE PROVIDED BY
- GENERAL CONTRACTOR TO COORDINATE WITH OWNER/OWNER REPRESENTATIVE ON DELIVERY SCHEDULE AND INSTALLATION FOR

	EQL	JIPMENT SCH	EDULI	E (EQ-)		
		FURNISHEI	O BY	INSTALLED) BY	
TAG NO.	DESCRIPTION	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
EQ-K1	KEURIG	X		X		
EQ-L1	EXISTING LOCKER		Χ	X		
EQ-M1	MICROWAVE	X		X		
EQ-R1	EXISTING REFRIGERATOR		Х	Х		CONTRACTOR TO STORE AND RELOCATE AT END O PROJECT
EQ-TV1	TV		Х	Х		COORDINATE AN IN WALL SWING ARM, AV DISPLAY WALL BOX/MOUNT COMPLIANT WITH TV SIZE DEPTH CANNOT EXCEED A FROM FACE OF WALL.
EQ-V1	EXISTING DRINK VENDING MACHINE		Х	Х		CONTRACTOR TO STORE AND RELOCATE AT END O PROJECT

	FURNITURE SCHEDULE (F-)										
		FURNISHE	D BY	INSTALLED) BY						
TAG NO.	DESCRIPTION	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES					
CH-01	TASK CHAIR		X		Х	NIC					
CH-02	DINING CHAIR		Х		X	NIC					
SH-1	ULINE SHELVING, 18"D x 48"L - H-5188	X		X							
SH-2	ULINE SHELVING, 18"D X 36"L - H-5186	X		X							
TB-01	CAFE TABLE		Х		Х	NIC					
WS-01	DESK		Х		X	NIC					



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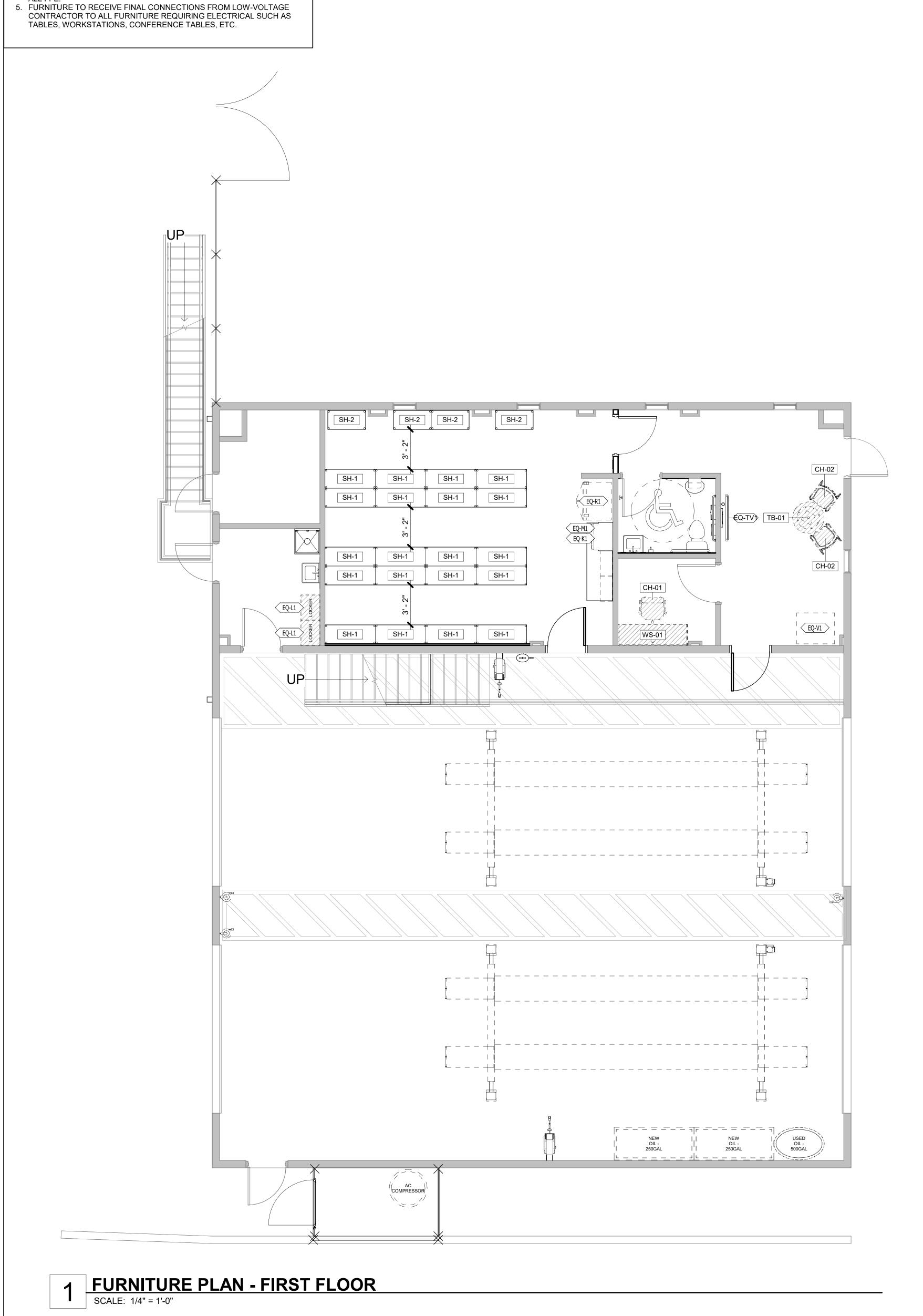
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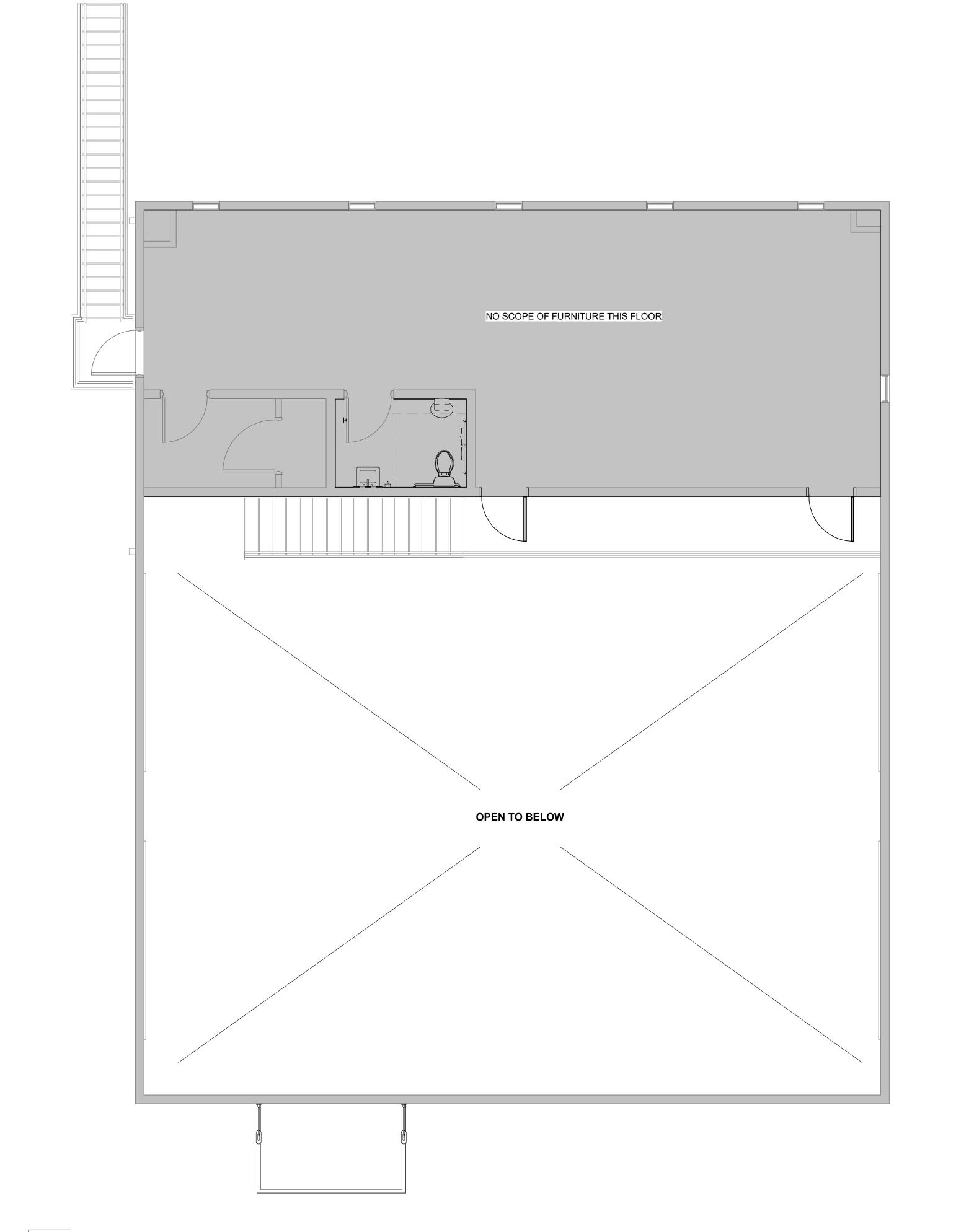
Checked By JDG Date Job No. 08/01/2025

Sheet Title

FURNITURE **EQUIPMENT PLANS -**LEVEL 1 & LEVEL 2

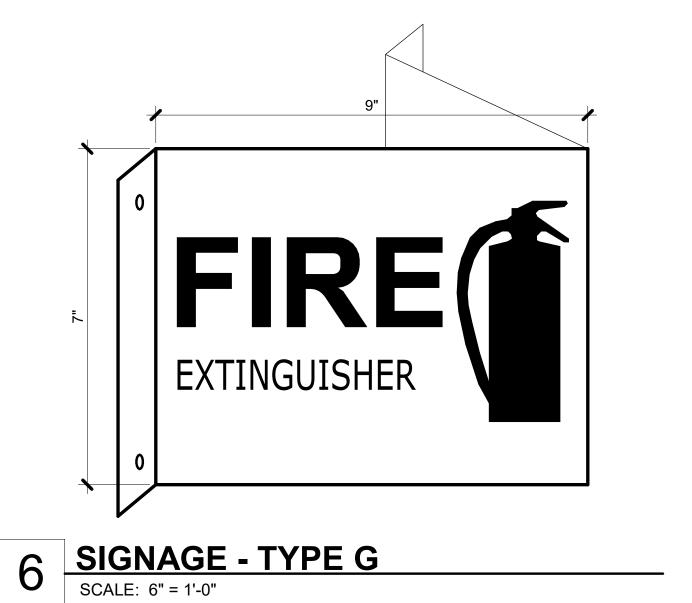
Sheet No.





2 FURNITURE/EQUIPMENT PLAN - LEVEL 2

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



SHUT-OFF **SWITCH**

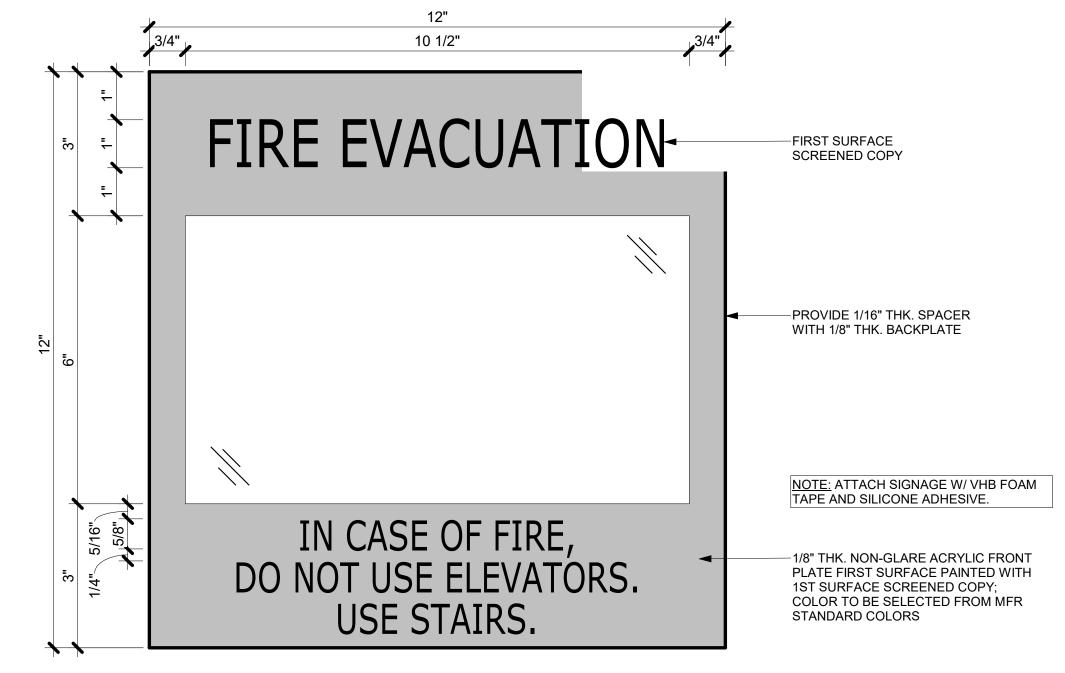
FONT TYPE: ARIAL BLACK REGULAR FONT SIZE: 1.6 INCHES FONT COLOR: WHITE BACKGROUND: RED, RGB 223, 25, 32

LOCATE PER BUILDING CONDITIONS.

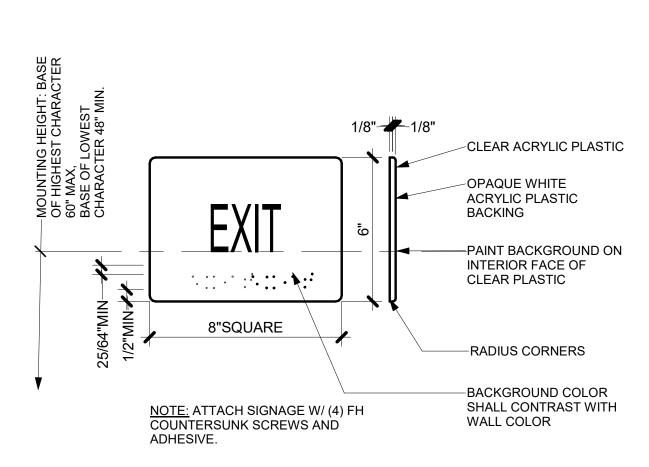
8 SIGNAGE - TYPE J
SCALE: 1 1/2" = 1'-0"



SCALE: 1 1/2" = 1'-0"

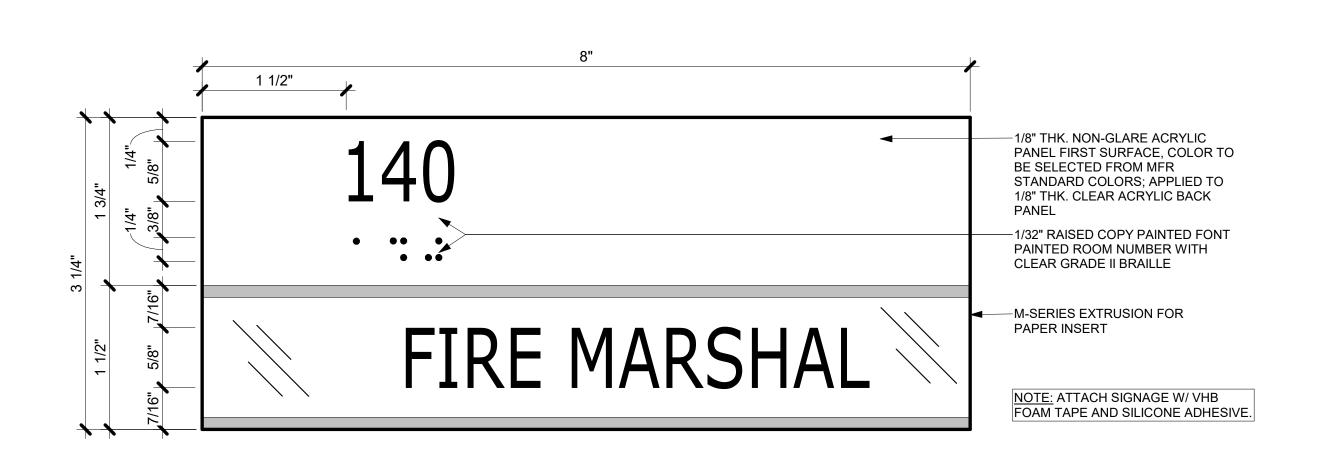


5 SIGNAGE - TYPE F
SCALE: 6" = 1'-0"



4 SIGNAGE - TYPE E

SCALE: 3" = 1'-0"



3 SIGNAGE - TYPE D

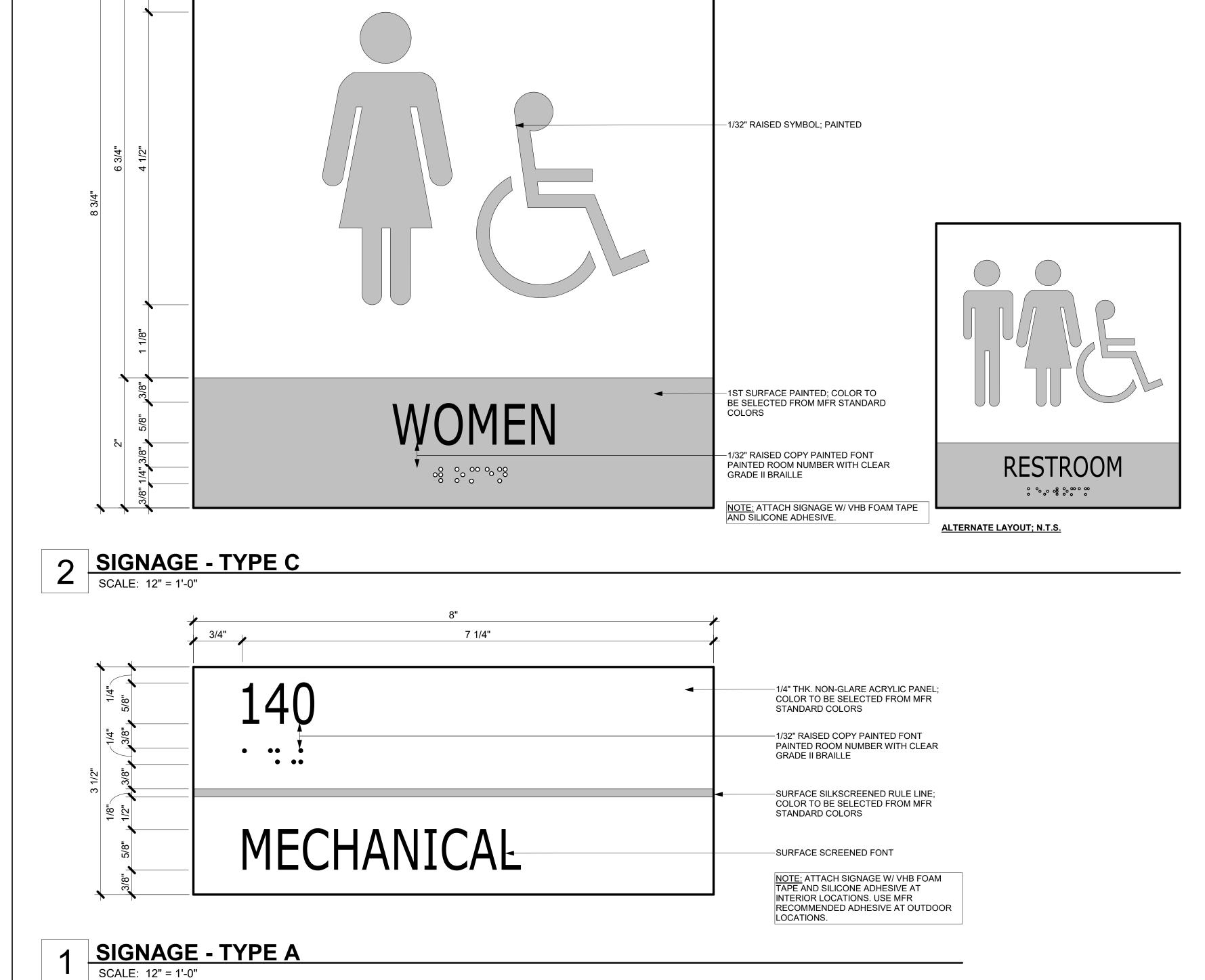
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CONWAY &OWEN

PRINT RECORD No. DATE DESCRIPTION **Checked By** Drawn By JDG Job No. Date 08/01/2025 25018 Sheet Title

SIGNAGE DIAGRAMS

Sheet No. Forsyth County Reviewed ID-7.00 Sonya M. Whetstone 09/08/2025 Final Approval Subject to Field Inspection **RELEASED FOR PERMIT**



-- 1/4" THK. NON-GLARE ACRYLIC PANEL, 1ST SURFACE PAINTED; COLOR TO BE SELECTED FROM MFR STANDARD





PRINT RECORD DESCRIPTION Checked By JDG Drawn By

Date Job No. 08/01/2025

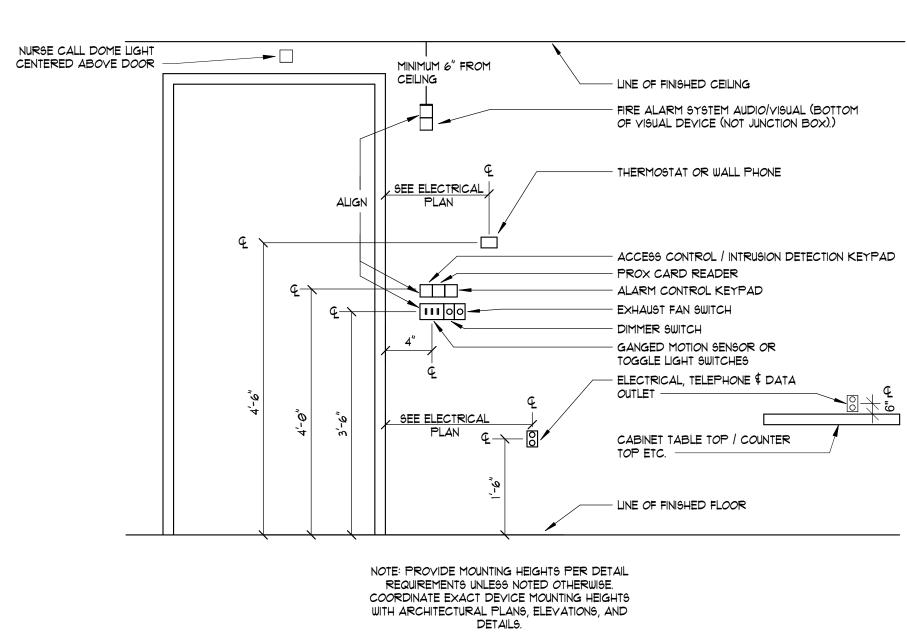
Sheet Title SIGNAGE PLANS -LEVEL 1 & LEVEL 2

Sheet No.

ABBREVIATIONS			
SYMBOL	DESCRIPTION DESCRIPTION		
AC	ABOVE COUNTER		
AFF / AFG	ABOVE FINISHED FLOOR / ABOVE FINISHED GRADE		
BFG	BELOW FINISHED GRADE		
(E) / (R) / (D)	EXISTING / RELOCATED / DEMOLISH		
EM	EMERGENCY		
EP <i>O</i>	EMERGENCY POWER-OFF		
NL	NIGHT LIGHT		
SCP	SECURITY CONTROL PANEL		
UNO	UNLESS NOTED OTHERWISE		
WP	WEATHER PROOF		
XFMR	TRANSFORMER		
XFMR	TRANSFORMER		

YOICE/DATA AND SECURITY NOTES

1. PROVIDE OUTLET BOX WITH ¾" EMPTY CONDUIT WITH PULL STRING (UNLESS NOTED OTHERWISE ON PLANS) TO 6" ABOVE ACCESSIBLE CEILING FOR ALL WALL MOUNTED VOICE/DATA AND SECURITY DEVICES. 2. PROVIDE POWER FOR SECURITY SYSTEM DEVICES AS REQUIRED.



1 TYPICAL ELECTRICAL DEVICE MOUNTING DETAIL
NOT TO SCALE

LIGHTING CONTROLS LEGEND				
SYMBOL	DESCRIPTION			
\$ \$ ³ \$ ⁴ \$ ^L	STANDARD / 3-WAY / 4-WAY / LOW VOLTAGE SWITCH			
\$D,3 \$D,LV	STANDARD / 3-WAY / LOW VOLTAGE 0-10V DIMMING SWITCH			
\$ ^T \$ ^{MC}	TIMER / MOMENTARY CONTACT SWITCH			
\$ ^{OR}	OVERRIDE SWITCH			
os	DUAL TECH OCCUPANCY SENSOR / 0-10Y DIMMING OCCUPANCY SENSOR / DUAL RELAY OCCUPANCY SENSOR, DUAL TECH YACANCY SENSOR - WALL MOUNTED. COLOR TO MATCH STANDARD OUTLETS			
©S (VS)	DUAL TECH OCCUPANCY SENSOR / DUAL TECH VACANCY SENSOR - CEILING MOUNTED. PROVIDE ACCESSORIES AS REQUIRED.			
O S	DAYLIGHT SENSOR			
PP	POWER PACK FOR OCCUPANCY SENSOR - TYPE AS REQUIRED.			
RC) #	ROOM CONTROLLER FOR OCCUPANCY SENSOR $\$$ DAYLIGHT SENSOR - TYPE AS REQUIRED. (PROVIDE WITH $\#$ 0-104 DIMMING RELAYS - SEE FLOOR PLANS FOR QTY.)			
G T	GENERATOR TRANSFER DEVICE			
LC	LIGHTING CONTROL STATION			

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
	FIRE ALARM/MASS NOTIFICATION VISUAL NOTIFICATION ONLY - WALL MOUNTED / CEILING MOUNTED, '#' INDICATES CANDELA
Ĭ Ĭ _c	FIRE ALARM HORN NOTIFICATION ONLY - WALL MOUNTED / CEILING MOUNTED
	FIRE ALARM/MASS NOTIFICATION SPEAKER NOTIFICATION ONLY - WALL MOUNTED / CEILING MOUNTED, 'W' INDICATES SPEAKER WATTAGE
* × * × c	FIRE ALARM HORN \$ VISUAL NOTIFICATION - WALL MOUNTED / CEILING MOUNTED, '#' INDICATES CANDELA
	FIRE ALARM/MASS NOTIFICATION SPEAKER \$ VISUAL NOTIFICATION - WALL MOUNTED / CEILING MOUNTED # INDICATES CANDELA, "W" INDICATES SPEAKER WATTAGE
(S) _P	SMOKE DETECTOR - CEILING MOUNTED, '?' INDICATES TYPE OF SMOKE DETECTOR, 'AS' - AIR SAMPLING, 'I' - IONIZATION, 'P' - PHOTOELECTRIC, 'RB' - RELAY BASE, 'SB' - SOUNDER BASE
<u>(9)</u>]	SMOKE DETECTOR - DUCT MOUNTED (QUANTITY AS REQUIRED BY NFPA)
6 9	SMOKE ALARM - CEILING MOUNTED
(9)H)	COMBINATION SMOKE/HEAT DETECTOR - CEILING MOUNTED
$\langle H \rangle_{p}$	HEAT DETECTOR - CEILING MOUNTED, '?' INDICATES TYPE OF HEAT DETECTOR, 'F' - FIXED, 'RC' - RATE COMPENSATION, 'R' - RATE OF RISE, 'R/F' - RATE OF RISE/FIXED, 'T' - THERMAL
⟨H⟩→	HEAT DETECTOR - LINE TYPE
< <u></u>	FLAME DETECTOR - CEILING MOUNTED, '?' INDICATES TYPE OF FLAME DETECTOR, 'I' - INFRARED, 'U' - ULTRAVIOLET, 'UI' - ULTRAVIOLET/INFRARED, 'VR' - VISIBLE RADIATION
O _?	GAS DETECTOR, '?' INDICATES TYPE OF FLAME DETECTOR, 'CO' - CARBON MONOXIDE, 'CO2' - CARBON DIOXIDE, 'CH4' - METHANE, 'HCL' - HYDROGEN CHLORIDE
[FIREMAN'S PHONE, '?' INDICATES TYPE OF FLAME DETECTOR, 'R' - RECESSED PHONE CABINET, 'S' - SURFACE MOUNTED PHONE CABINET, 'J' - FIREMAN'S JACK
DCL DH	CONTROL MODULES - DOOR CLOSER AND MAGNETIC DOOR HOLD OPEN
WF VS	SUPERVISORY MODULES - FLOW SWITCH AND TAMPER SWITCH. COORDINATE QUANTITY AND LOCATION WITH FIRE SPRINKLER CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
>	FIRE SMOKE DAMPER - PROVIDE SMOKE DETECTOR AND CONTROL POWER AS REQUIRED. COORDINATE VOLTAGE AND CONNECTION REQUIREMENTS WITH EQUIPMENT BEING PROVIDED. PROVIDE CONTROL WIRING TO CONNECT FSD WITH FIRE ALARM SYSTEM FOR MONITORING AND

SHEET LIST ELECTRICAL			
SHEET NUMBER	SHEET NAME		
EØ.1	ELECTRICAL LEGENDS, AND NOTES		
EØ.2	ELECTRICAL NOTES, AND DETAILS		
EØ.3	COMCHECK		
E1.1	DEMOLITION PLAN - ELECTRICAL		
E1.2	FLOOR PLAN - ELECTRICAL		
El.3	FLOOR PLAN - LIGHTING		
E1.4	FLOOR PLAN - MECHANICAL AND FIRE ALARM		
E2.1	PANEL SCHEDULES AND RISER DIAGRAM		

GENERAL LEGEND				
SYMBOL	DE6CRIPTION			
	DEVICES TO BE DEMOLISHED (APPLIES TO DEMOLITION PLANS ONLY)			
	CONDUIT RUN CONCEALED IN WALL OR CEILING			
	LOW VOLTAGE WIRE RUN CONCEALED IN WALL OR CEILING			
	CONDUIT RUN CONCEALED IN THE FLOOR, UNDERGROUND, OR UNDER THE ELEVATED SLAB			
	CONDUIT RUN EXPOSED. ROUTE PARALLEL/PERPENDICULAR TO WALLS AND STRUCTURE.			
	CIRCUITS HOMERUN TO THE PANEL			
	NUMBER OF CONDUCTORS (GROUND NOT SHOWN)			
~~	FLEXIBLE CONDUIT OR CORD			
-	120/2087 PANELBOARD OR DISTRIBUTION PANEL			
	277/480V PANELBOARD OR DISTRIBUTION PANEL			
SB	SWITCHBOARD OR DISTRIBUTION BOARD			
Ť	TRANSFORMER (FLOOR OR CEILING MOUNTED NOTED ON PLANS)			
	DISCONNECT (FRAME AND POLES TO MATCH OVER CURRENT PROTECTION REQUIRED PER NEC OR AS NOTED)			
	PLYWOOD BACKBOARD. $\frac{3}{4}$ D(uno) \times 8' H (uno) \times WIDTH AS SHOWN ON PLANS. PAINT WITH FIRE RETARDANT PAINT PRIOR TO INSTALL.			
\boxtimes	MOTOR STARTER			
⊠ ¹	COMBINATION MOTOR STARTER \$ DISCONNECT			
Î	EMERGENCY POWER OFF SWITCH			
ATS	AUTOMATIC TRANSFER SWITCH			
SP	SURGE PROTECTION DEVICE			

				ELECTRICAL LEGEND
	SYM	1B <i>C</i>	L	DESCRIPTION
Ţ) (Φ		DUPLEX RECEPTACLE - WALL MOUNTED / CEILING MOUNTED / FLOOR MOUNTED
	Ф	#	#	GFCI DUPLEX / GFCI QUAD RECEPTACLE
4	₹ (#		QUAD RECEPTACLE - WALL MOUNTED / CEILING MOUNTED / FLOOR MOUNTED
₽	#		#	DUPLEX / GFCI DUPLEX / QUAD / QUAD GFCI RECEPTACLE - WALL MOUNTED ABOVE COUNTER
P	4	#	*	USB COMBO - DUPLEX / GFCI DUPLEX RECEPTACLE / QUAD / QUAD GFCI RECEPTACLE \$ (2) USB CHARGING PORTS
7	#	#	#	USB COMBO - DUPLEX / GFCI DUPLEX RECEPTACLE / QUAD / QUAD GFCI RECEPTACLE \$ (2) USB CHARGING PORTS - WALL MOUNTED ABOVE COUNTER
	(?		USB CHARGING PORT DEVICE
	•	F	P	ISOLATED GROUND DUPLEX / SWITCH CONTROLLED DUPLEX RECEPTACLE
	•	•		ISOLATED GROUND DUPLEX / SWITCH CONTROLLED DUPLEX RECEPTACLE - WALL MOUNTED ABOVE COUNTER
9	2 (O	D	JUNCTION BOX - WALL MOUNTED / CEILING MOUNTED / FLOOR MOUNTED - CONDUIT TO 6" ABOYE ACCESSIBLE CEILING AS REQUIRED
	(φ		SPECIAL VOLT/AMP RECEPTACLE
	(φ		SINGLE RECEPTACLE
	[П		GFCI DEVICE
		\$ ^M		MOTOR RATED SWITCH
7	7 (\supset		DATA OUTLET - WALL MOUNTED / CEILING MOUNTED / FLOOR MOUNTED - PROVIDE JUNCTION BOX W/ 1 1/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90° ELBOW ABOVE CEILING WITH PLASTIC GROMME
7	7 (9		COMBINATION DATA \$ CABLE OUTLET - WALL MOUNTED / CEILING MOUNTED / FLOOR MOUNTED - PROVIDE JUNCTION BOX W/ 1 1/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90° ELBOW ABOVE CEILING WITH PLASTIC GROMMET.
	\forall	4	7	DATA / COMBINATION DATA \$ CABLE OUTLET - WALL MOUNTED ABOVE COUNTER - PROVIDE JUNCTION BOY AND 11/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 30 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.
	(9 w		WIRELESS ACCESS POINT DATA OUTLET - CEILING MOUNTED - PROVIDE FLUSH MOUNTED JUNCTION BOX IN CEILING.
	<u>P</u>			RECESSED FLAT PANEL ENCLOSURE WITH DUPLEX RECEPTACLE AND AY/DATA BOX. PROVIDE 1 1/4" CONDUIT FOR DATA AND ¾" CONDUIT FOR CABLE TO 6" ABOYE ACCESSIBLE CEILING. PROVIDE 90° ELBOY ABOYE CEILING WITH PLASTIC GROMMET.
	(<u></u>		POKE THRU - PROVIDE 1.25" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING PROVIDE 30 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.
	(P)		RECEPTACLE AND DATA MULTI-SERVICE POKE THRU. PROVIDE 1 1/4" CONDUIT TO NEAREST WALL AND UP WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90° ELBOW ABOVE CEILING WITH PLASTIC GROMMET.
	(MODULAR FURNITURE POKE THRU. COORDINATE ALL POWER REQUIREMENTS WITH MANUFACTURER FOR EXACT CONDUCTOR QUANTITY, CONDUCTOR CONFIGURATION AND CONNECTION REQUIREMENTS. SEE LY DRAWINGS FOR ADDITIONAL INFORMATION.
	Ç	₽▽		RECEPTACLE AND DATA FLOOR BOX. PROVIDE 1" CONDUIT TO NEAREST WALL AND UP WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 30° ELBOW ABOVE CEILING WITH PLASTIC GROMMET.
	Ç	₽₩		RECEPTACLE AND A/V FLOOR BOX. PROVIDE 1 1/2" CONDUIT TO NEAREST WALL AND UP WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90° ELBOW ABOVE CEILING WITH PLASTIC GROMMET.
	[•		MODULAR FURNITURE FLOOR BOX. COORDINATE ALL POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN FOR EXACT CONDUCTOR QUANTITY, CONDUCTOR CONFIGURATION AND CONNECTION REQUIREMENTS. SEE LY DRAWINGS FOR ADDITIONAL INFORMATION.
	ę) (P		MODULAR FURNITURE WALL MOUNTED JUNCTION BOXES. COORDINATE ALL POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN FOR EXACT CONDUCTOR QUANTITY, CONDUCTOR CONFIGURATION AND CONNECTION REQUIREMENTS. SEE LY DRAWINGS FOR ADDITIONAL INFORMATION.
	Opp	, F		POWER POLE / COMBINATION POWER AND DATA POLE

NOT ALL SYMBOLS IN LEGEND MAY BE USED.



208 Pirkle Ferry Road, Suite C Cumming, GA 30040





	D 4 T F	DECEDITION		
No.	DATE	DESCRIPTION		
		Checke		

Date 08/01/2025 **Job No.** 25092 Sheet Title

ELECTRICAL LEGENDS, AND NOTES

SYSTEM NO. WLIGGI

SYSTEM NO. W-L-1001

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3), T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3), L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT, L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

1. WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE

MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL USE
OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE
RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING
CONSTRUCTION FEATURES:

A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS
(MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS WOO

(MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

B. GYPSUM BOARD* — NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

2. THROUGH-PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF @ IN / (@ MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE

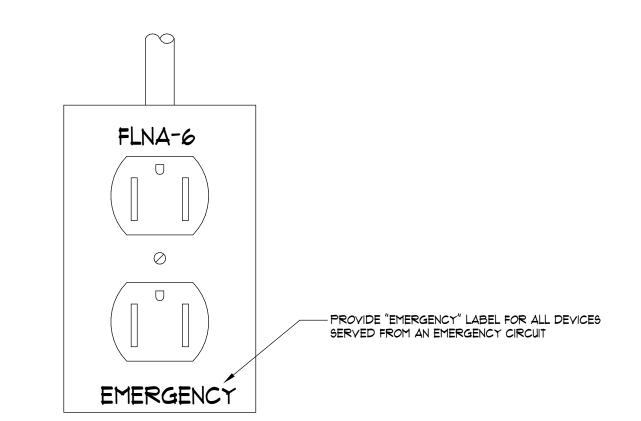
WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM

(OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL

D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING

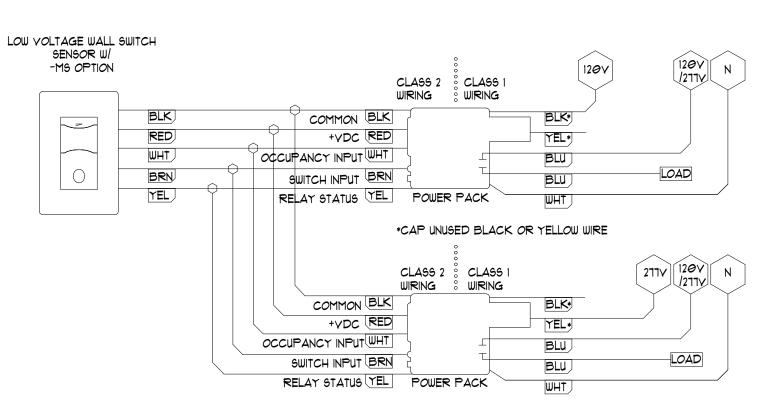
1 ELECTRICAL PIPE PENETRATION NOT TO SCALE



METALLIC TUBING

NOTE: PROVIDE LABELS FOR ALL DEVICES INDICATING BRANCH CIRCUIT NUMBER USING PANDUIT ADHESIVE LABELS WITH 1/4" HIGH LETTERS

4 RECEPTACLE IDENTIFICATION DETAIL
NOT TO SCALE



RESTROOM LIGHTING/EXHAUST FAN CONTROL WIRING DIAGRAM

1/"HIGH LETTERS

RTU-X-X

FED FROM XX

+WHEN COPPER PIPE IS USED, T RATING IS 0 H.

3M COMPANY — CP 25WB+ OR FB-3000 WT.

E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR

TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

F. THROUGH PENETRATING PRODUCT* — FLEXIBLE METAL PIPING THE FOLLOWING

1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING.

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING.

PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES

4. FILL, VOID OR CAVITY MATERIAL* — CAULK OR SEALANT — MIN 5/8. , 1-1/4,1-1/8

AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR

RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH

GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH

SIDES OF WALL THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT

INSTALLED, AS SHOWN IN THE FOLLOWING TABLE, THE HOURLY T RATING OF THE

CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS

FRATING HR TRATING HR

0+,1 OR 2

3 OR 4

FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR

3 OR 4

1 OR 2

3 OR 4

SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO

UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS

PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES

HEAVIER) COPPER PIPE.

OF FLOOR OR WALL ASSEMBLY.

OF FLOOR OR WALL ASSEMBLY.

OF FLOOR OR WALL ASSEMBLY.

INSTALLED, AS TABULATED BELOW:

MAX PIPE

OR CONDUIT

DIAM IN (MM)

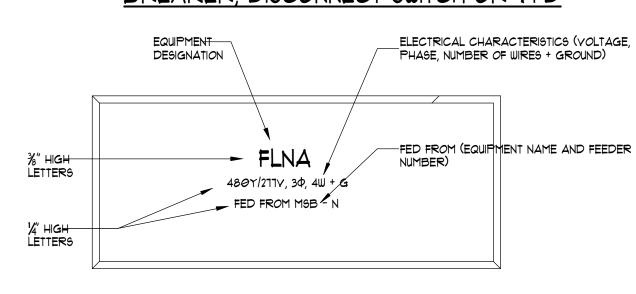
4 (102)

GASTITE, DIV OF TITEFLEX

WARD MFG L L C

OMEGA FLEX INC

BREAKER, DISCONNECT SWITCH OR VFD



PANEL OR SWITCHBOARD

1. NAME PLATES SHALL BE PERMANENT BAKELITE
2. REFER TO ELECTRICAL IDENTIFICATION FOR COLOR BY SYSTEM TYPE.

FOUR PMENT NAME PLATE DE

NOT TO SCALE

1" RACEWAY TO THE CABLE TRAY. RACEWAY TO BE CONNECTED TO THE CABLE TRAY VIA MECHANICAL CLAMP.

RACEWAY CONNECTED TO ONE SIDE OF OUTLET BOX TO ALLOW SUFFICIENT BENDING RADIUS OF THE CATEGORY 6 CABLING.

OUTLET BOX DETAIL

/ NOT TO SCALE

ELECTRICAL GENERAL NOT

1. ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND NATIONAL ELECTRICAL CODE, 2023 EDITION, NO

2. THE ELECTRICAL WORK SHALL CONSIDE OF ALL LABOR AND MAPERIAL TO SOMPLETELY MOTALL ALL ELECTRICAL WORKS AS SHOWN ON THESE DRAWINGS 3. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING AND CONDUIT IF NECESSARY AS DIRECTED BY THE ARCHITECT/ENGINEER.

4. ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, OR WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.

5. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.

6. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL JUNCTION BOXES AND COMPONENTS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.

1. REFER TO THE ENTIRE CONTRACTED DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH

8. ALL CONDUIT MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.

9. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH ALL EQUIPMENT.

THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINES WORK.

10. THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS WORKMANSHIP.

11. PROVIDE A NEW DIRECTORY FOR ALL PANELS. CORRECTLY LABEL ALL CIRCUITS, SPACES AND SPARES PER NEC 408.4.

12. ALL RECESSED LIGHTING FIXTURES SHALL BE FASTENED TO STRUCTURE OR GRID PER N.E.C. 410.

13. ANY CONDUIT, BUSWAY, CABLE TRAY, SLEEVES, ETC. THAT PENETRATE RATED WALLS, CEILINGS AND FLOORS SHALL BE FIRE STOPPED PER CODE.

14. MOUNTING HEIGHTS FOR DEVICES ARE TO BE MEASURED TO THE DEVICE CENTERLINE.

15. ALL BRANCH CIRCUITS SHALL BE WIRED ½"C, 2-#12, 1-#12G MINIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. ALL HOMERUNS SHALL BE A MINIMUM 1/2"

SHALL BE EMT. ALL HOMERUNG SHALL BE IN CONDUIT RAN FROM THE FIRST DEVICE OR LIGHT FIXTURE TO THE PANEL

16. MULTIWIRE BRANCH CIRCUITS MAY NOT BE USED. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT OF A DIFFERENT PHASE. OVERCURRENT PROTECTION SHALL COMPLY WITH NEC 210.4.

17. PROVIDE A SEPARATE GREEN, INSULATED, #12AWG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS. PROVIDE GROUND THROUGH ENTIRE CONDUIT RUN TO THE LAST DEVICE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT. PROVIDE GROUNDING PER NEC 250.

18. ALL 9WITCHES FOR LIGHTS, FANS, ETC., WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA, SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
 19. ARMORED CABLE MAY BE USED IN WALLS AND MILLWORK ONLY AND MUST BE MC TYPE (WITH GROUND). ALL CONDUIT TO AND ABOVE THE PLENUM

20. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF OUTLETS, LIGHT FIXTURES, AND PARTITIONS. FINISHES FOR DEVICES AND COVERPLATES SHALL BE AS SELECTED BY ARCHITECT.

21. PROVIDE A 2-GANG OUTLET BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ALL NEW DATA, TELEPHONE AND CABLE OUTLETS. COORDINATE PLASTER RING SIZE WITH TENANT AND CABLE VENDOR

OUTLETS. COORDINATE PLASTER RING SIZE WITH TENANT AND CABLE VENDOR.

22. LIGHT FIXTURES SHALL BE AS SCHEDULED, WITH ONLY PRE-APPROVED EQUAL FIXTURES ACCEPTABLE.

23. ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS FOR SIZES NO. 10 AND SMALLER SHALL BE TYPE "THWN" OR "THHN/THWN". CONDUCTORS FOR SIZES NO. 8 AND LARGER SHALL BE TYPE "XHHW". SOLID CONDUCTORS TERMINATING IN A BREAKER OR DEVICE SHALL BE UTILIZED FOR WIRE SIZE NO. 12.
MINIMUM WIRE SIZE SHALL BE NO. 12.

24. ALL BOXES SHALL BE PRESSED STEEL, SINGLE PIECE (NON-GANGABLE) TYPE.

25. ALL COVER PLATES SHALL BE STAINLESS STEEL

26. ALL COVER PLATES FOR DEVICES AND JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS LABELED WITH INDELIBLE INK MARKER. DEVICE COVERS SHALL BE LABELED ON THE BACK, JUNCTION BOX COVERS SHALL BE LABELED ON THE FRONT.

21. RECEPTACLES SHALL BE 120 VOLT, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROWHART, P\$S, OR LEVITON. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE RECEPTACLE #HBL5361X

DUPLEX RECEPTACLE #HBL5352X (HBL8300 - HEALTHCARE)

GFCI RECEPTACLE #GF5352X (GFR8300 - HEALTHCARE)

28. SWITCHES SHALL BE 120/2717V, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROWHART, P\$5, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE POLE #HBL1221X

THE FEBRUARY ARROWHART STATES THE PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROWHART, P\$5, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

THREE WAY #HBL1223X
FOUR WAY #HBL1224X
(ADD "L" SUFFIC FOR KEYED LOCKING TYPE)

29. PANELBOARDS, MOTOR STARTERS, SAFETY SWITCHES (HEAVY DUTY), ETC. SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, SIEMENS, OR CUTLER HAMMER. ALL BREAKERS SHALL BE "BOLT-ON" TYPE.

AND DEVICES REFERENCED IN THEIR BIDS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH RESPECTIVE

OR CUITER HAMMER. ALL BREAKERS SHALL BE BOLT-ON TIPE.

30. FOR EQUIPMENT THAT IS TO BE WIRED BY ELECTRICAL CONTRACTOR AND FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR SHALL REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DETAILS THROUGHOUT DOCUMENTS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING

31. ALL ABANDONED WIRE SHALL BE REMOVED.

32. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVE, NEW OR RELATED WALL OPENING, ETC.) RESULTS IN THE REMOVALS, REFEEDING, OR RELOCATION OF LIGHTING FIXTURES OR ELECTRICAL DEVICES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.

33. RING OUT ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE, OR PROVIDE NEW BREAKERS. TAG ALL UNUSED CIRCUITS AS SPARE, REPLACE ALL INOPERATIVE OR DEFECTIVE CIRCUIT BREAKERS, AND TIGHTEN ALL CONNECTIONS.

34. WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS, AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.

35. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CONFIRMATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

36. PROVIDE 120 VOLT POWER FOR ALL SMOKE/FIRE DAMPERS AND TIE DAMPERS BACK TO THE BUILDING FIRE ALARM SYSTEM SO THAT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR OR INDIVIDUAL SENSORS ASSOCIATED WITH DAMPER A SIGNAL WILL BE SENT BACK TO THE BUILDING FIRE ALARM SYSTEM INDICATING ALARM AND STATUS OF DAMPER (OPEN/CLOSED). CONTRACTOR SHALL PROVIDE ALL WIRING, DUCT MOUNTED SMOKE DETECTORS, MODULES, RELAY, AND ASSOCIATED EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT CONNECTION REQUIREMENTS BETWEEN ALL TRADES. (ELECTRICAL MECHANICAL \$ FIRE PROTECTION). CONTRACTOR SHALL COORDINATE QUANTITIES OF DUCT MOUNTED

37. CONDUCTORS SHALL HAVE COLOR CODED JACKETS THE ENTIRE LENGTH FOR SIZES NO. 6 AND SMALLER. THE CONDUCTORS FOR SIZES NO. 4 AND LARGER SHALL HAVE COLOR CODED MARKING TAPE OR COLOR CODED JACKETS THE ENTIRE LENGTH. COLORS SHALL BE AS FOLLOWS:

 120/208 VOLT SYSTEM
 211/480 VOLT SYSTEM

 PHASE 'A' - BLACK
 PHASE 'A' - BROWN

 PHASE 'B' - ORANGE

 PHASE 'C' - BLUE
 PHASE 'C' - YELLOW

PHASE 'C' - BLUE PHASE 'C' - YELLOW
NEUTRAL - WHITE NEUTRAL - GRAY
GROUND - GREEN GROUND - GREEN

38. WHERE PHASE MARKING TAPE IS USED IT SHALL BE WRAPPED 2" WIDE AND LOCATED AT TWO (2) LOCATIONS 6" AND 18" FROM THE TERMINATION. PHASE MARKING TAPE FOR THE NEUTRAL AND GROUNDING CONDUCTORS SHALL BE PROVIDED WHERE VISIBLE AT ANY POINT WHERE THE CONDUCTOR IS ACCESSIBLE

39. FIELD IDENTIFY EXISTING PANELBOARDS THAT ARE MODIFIED PER NEC 408.4(B).

40. PROVIDE ARC-FLASH WARNING LABELS ON ELECTRICAL EQUIPMENT THAT COMPLIES WITH NEC 110.16.

41. PROVIDE CONSPICUOUS AND PERMANENT LABEL ON NEW PANELBOARDS INDICATING AVAILABLE FAULT CURRENT PER NEC 110.24.

Mo. PE044237

PROFESSIONAL

208 Pirkle Ferry Road, Suite C

Cumming, GA 30040



FORSYTH COUNTY

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PRINT RECORD

No. DATE DESCRIPTION

1 08/29/2025 PERMIT COMMENTS

Drawn By
KG
CTB
Date

Date

Date

Description

Checked By
CTB

Job No.

Sheet Title
ELECTRICAL NOTES,
AND DETAILS

Sheet No.

08/01/2025



Project Information				
Energy Code: Project Title: Project Type:	2015 IECC FOCO FIRE STATION 15 New Construction			
Construction Site: 1525 BUFORD HWY CUMMING, GA 30040	Owner/Agent:	Designer/C Khaled G Conway : 1455 Blu		rkwy
Additional Efficiency I	Package(s)	Alpharet	ta, GA 30004 i@conway-owe	ā.
Credits: 1.0 Required 0.0 P	Proposed			
Allowed Interior Light	a sand			
·	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Workshop		4080	1.19	4855
		То	tal Allowed Watts	s = 4855
3	A escription / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture		D E xture (C X D) Vatt.
1-Workshop LED 1: A: LED Panel 33W	6	1	5	27 135
LED 2: LED Panel 33W: LED 3: LED Linear 33W:		1	23	33 759 25 50
LED 3. LED Linear 33VV.		1	2 Total Proposed	12723
Interior Lighting PAS	SES: Design 81% better than code			
Interior Lighting Com	The proposed interior lighting design represented calculations submitted with this permit application is IECC requirements in COMcheck Version 4.1.5. Inspection Checklist.	n. The proposed interi	or lighting syst any applicable	ems have been mandatory
specifications, and other of designed to meet the 201 requirements listed in the		n.o.	07/16/	/2025
specifications, and other designed to meet the 201 requirements listed in the Khaled Ghanawi	O .		Date	
specifications, and other of designed to meet the 201 requirements listed in the	Signature		Date	

requirements being c	ent, the user certifies that a code re laimed. Where compliance is itemiz	quirement will be met a ed in a separate table, a	r in the COMcheck Requirements screen. For each of the common of the com
# & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2		□Complies	
[PR4] ¹	calculations provide all information with which compliance can be	□Does Not	
	determined for the interior lighting	□Not Observable	
		□Not Applicable	
	and document where exceptions to the standard are claimed. Information		
	provided should include interior		
	lighting power calculations, wattage of bulbs and ballasts, transformers and		
	[시간 살아님께 살아 본 전 전 전 경기 전 경기 전 경기 전 경기 전 경기 전 경기 등 보고 있다. 전 경기 전 경기 전 교 전 시간 시간 경기 전 하고 있다면 보다 보고 있다.		
Additiona	control devices. al Comments/Assumptions:	1	
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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Report date: 07/16/25 Page 2 of 5

Page 5 of 5

Project Title: FOCO FIRE STATION 15

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Lighting controls installed to uniformly robus. Complies Does Not Not Observable Not Applicable Not Observable	reduce the lighting load by at least 50%. Causting	Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
S0%. Not Observable Not Applicable	S0%. Not Observable Not Applicable	2405.2.1	Lighting controls installed to uniformly		
Automatic controls to shut off all buildings. Does Not Does	Comples Company sensors installed in required spaces. Comples Comple	CCIS		□Not Observable	
Independent lighting controls installed Complies Does Not manual controls readily accessible and visible to occupants. Not Observable Not Observabl	Independent lighting controls installed Complies Does Not Not Observable Not Applicable Not Appl		Occupancy sensors installed in required spaces.	□Complies	
Does Not Not Observable Not Applicable Not Applicable Not Observable Not Observ	Does Not Not Observable Not Applicable Does Not Does Not Not Observable Not Applicable Does Not Does Does Not Does Does Does Does Does				
Not Applicable	Not Applicable	2405.2.2.	nor approved lighting plans and all		
building lighting installed in all buildings. Does Not Not Observable Not Applicable Does Not Not Observable N	building lighting installed in all buildings. Does Not Not Observable Not Applicable Does Not Not Observable Not Observable Not Observable Does Not Not Observable D		visible to occupants.	□Not Observable □Not Applicable	
Not Observable Not Applicable	Not Observable Not Applicable Not Observable Not		building lighting installed in all		
Daylight zones provided with individual controls that control the lights independent of general area lighting. Does Not Does Not Applicable	Cause Caus	EL22] ²	buildings.	□Not Observable	
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	Additional Comments/Assumptions:			□Not Observable	
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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)	Project Title: FOCO FIRE STATION 15 Report	Project Title			Report d





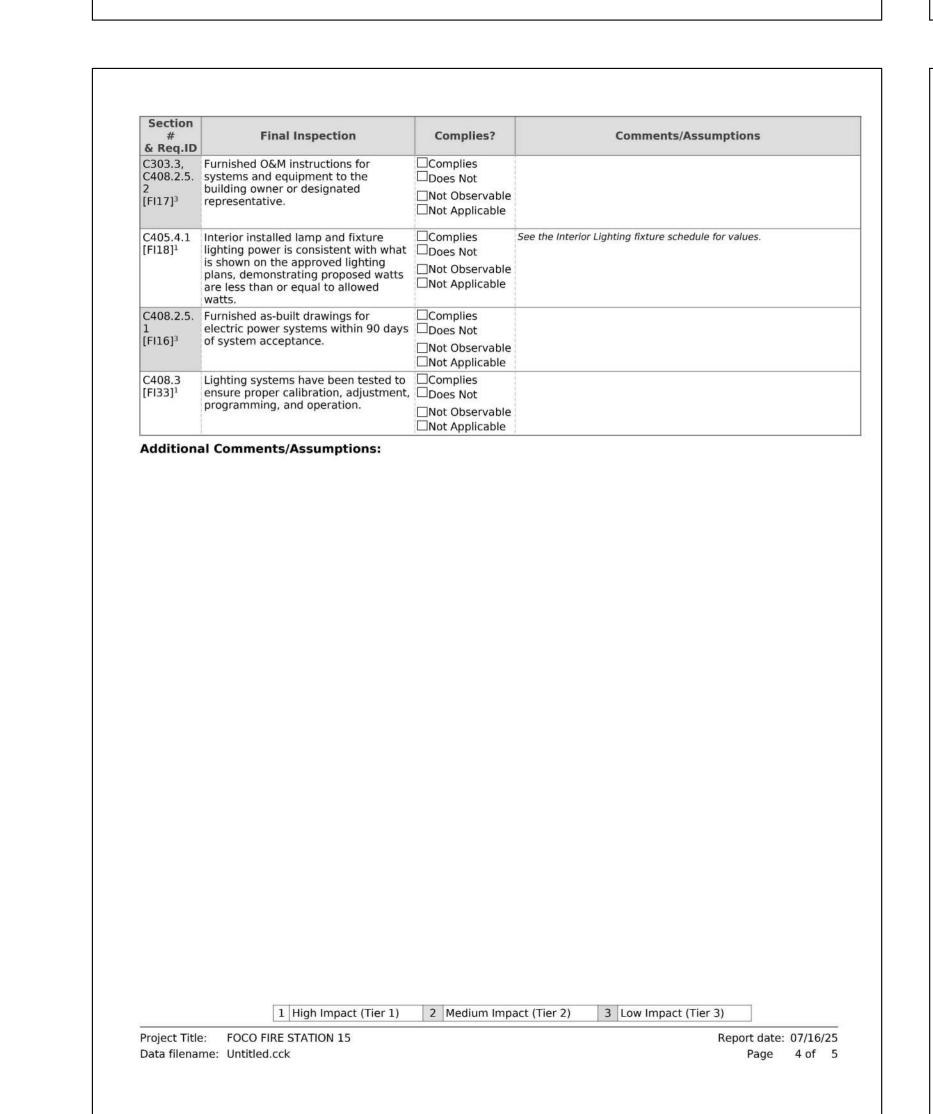


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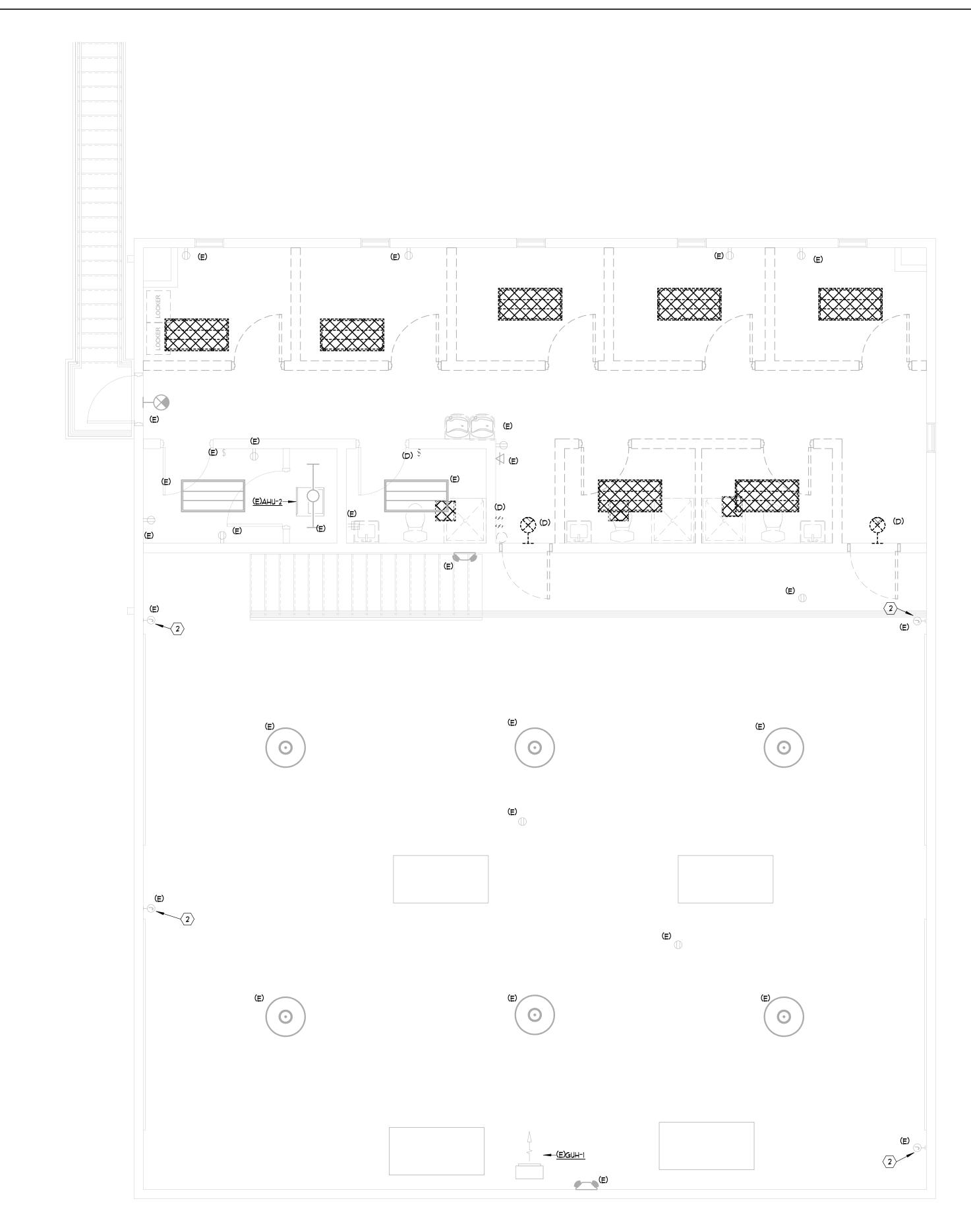
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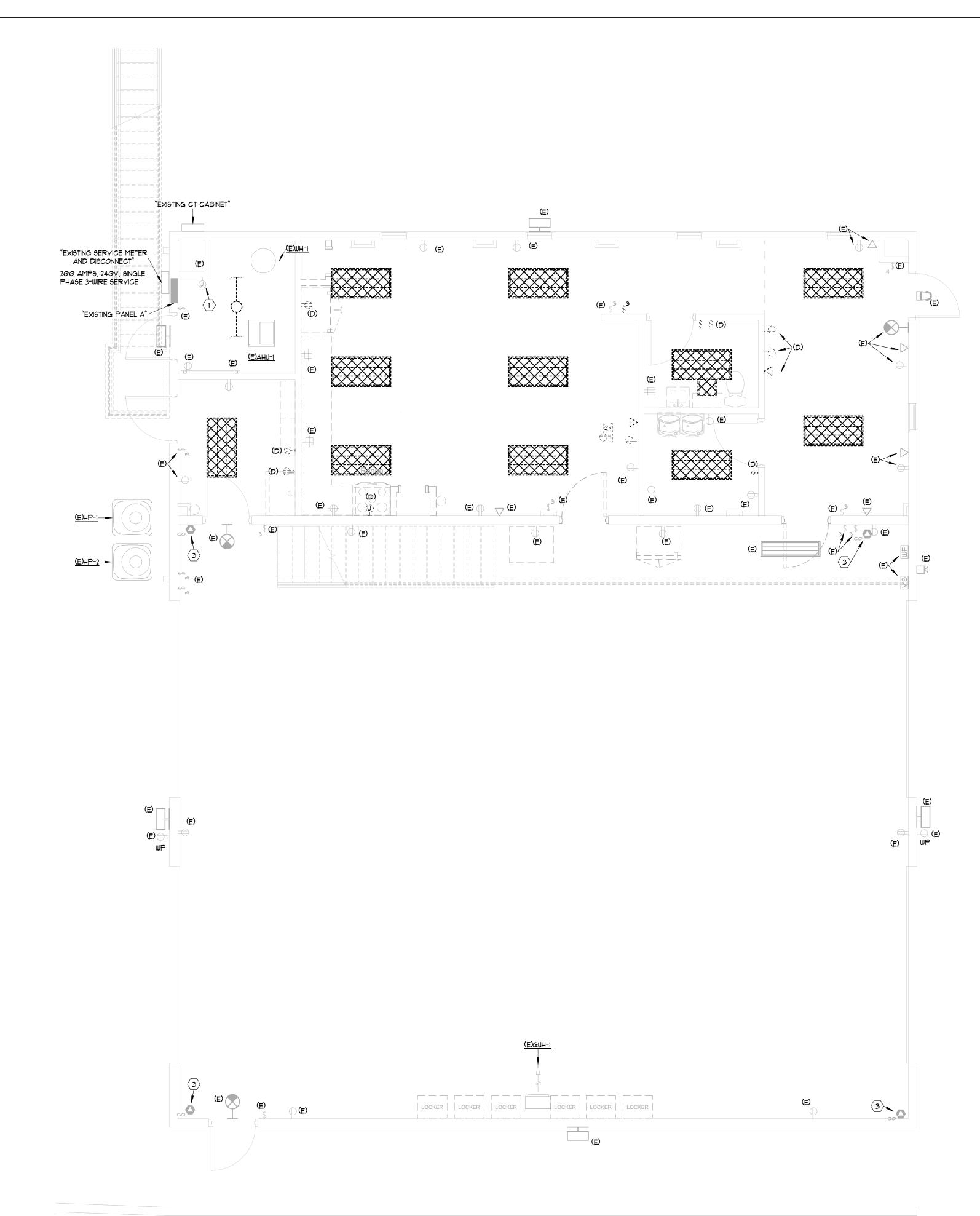
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SECOND FLOOR DEMOLTION PLAN - ELECTRICAL

NORTH

NORTH ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED.





FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED.

DEMOLITION NOTES:

- REMOVE AND DISCARD ALL LIGHT FIXTURES IN AREAS OF WORK UNLESS OTHERWISE NOTED. COORDINATE EXACT WORK AREAS WITH ARCHITECTURAL DOCUMENTS. REFER TO LIGHTING PLAN FOR EXISTING FIXTURES TO REMAIN / BE RELOCATED.
- 2. ALL EXISTING FIXTURES AND MATERIAL SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
- WHERE DEMOLITION DISRUPTS THE ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.
- 4. ALL ABANDONED WIRE SHALL BE REMOVED.
- 5. ALL ABANDONED CONDUIT AND BOXES THAT ARE NOT IN CONCRETE SHALL BE REMOVED.
- 6. SEE ELECTRICAL AND LIGHTING PLANS FOR MORE INFORMATION. 1. REFER TO ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
- 8. REMOVE EXISTING ELECTRICAL DEVICES FROM ANY WALLS SHOWN TO BE DEMOLISHED IN RENOVATION AREAS ON ARCHITECTURAL PLANS. REMOVE ASSOCIATED EXISTING CIRCUITRY AND RACEWAYS.
- 9. FOR CIRCUITS IN RENOVATED AREAS, REMOVE CIRCUITRY AND RACEWAYS FROM WALLS AND CEILINGS SERVING DEVICES AND LIGHT FIXTURES TO BE DEMOLISHED. REMOVE BRANCH CIRCUIT BACK TO A JUNCTION BOX AT HOME RUN POINT. LABEL JUNCTION BOX WITH A CIRCUIT NUMBER AND RECORD LOCATION FOR FURTHER USE.
- 10. IN WALLS AND CEILINGS WHERE A PORTION OF THE CIRCUIT IS BEING REMOVED, PROVIDE AND INSTALL CIRCUITRY TO INSURE EXISTING DEVICES REMAIN OPERATIONAL. 11. EXISTING LIGHT FIXTURES IN CEILINGS SHOWN TO BE DEMOLISHED ON ARCHITECTURAL PLANS SHALL BE REMOYED COMPLETE
- WITH ALL TRIMS, SUPPORTS AND CIRCUITRY. PRIOR TO DEMOLITION COORDINATE WITH OWNERS REPRESENTATIVES IF THE QUANTITY AND TYPE (IF ANY) SHALL BE TURNED OVER TO OWNER FOR ATTIC STOCK. 12. EXISTING CIRCUITS BEING DEMOLISHED NOT TO BE REUSED SHALL BE REMOVED BACK TO A HOME RUN JUNCTION BOX
- ABOVE AN ACCESSIBLE CEILING. LABEL JUNCTION BOX WITH CIRCUIT NUMBER AND VOLTAGE. RECORD LOCATION ON ASBUILT DRAWINGS AND LABEL PANEL DIRECTORY ACCORDINGLY. 13. REMOVE ALL DEMOLISHED ELECTRICAL CIRCUITS BACK TO THE EXISTING PANEL. ELECTRICAL CONTRACTOR TO RING OUT ALL CIRCUITS DURING DEMOLITION. MARK DEMOLISHED CIRCUITS AS SPARES AND LEAVE IN THE OFF POSITION FOR NEW

KEY NOTES:

- $\langle 1
 angle$ existing control timer for outside light Packs to Remain.
- $\langle 2
 angle$ existing connection to bay door motor to remain. $\overline{oldsymbol{3}}$ Existing wall mounted co detectors and control panel to remain.

Drawn By Checked By CTB Job No. Date

208 Pirkle Ferry Road, Suite C Cumming, GA 30040

Sheet Title **DEMOLITION PLAN -**

ELECTRICAL

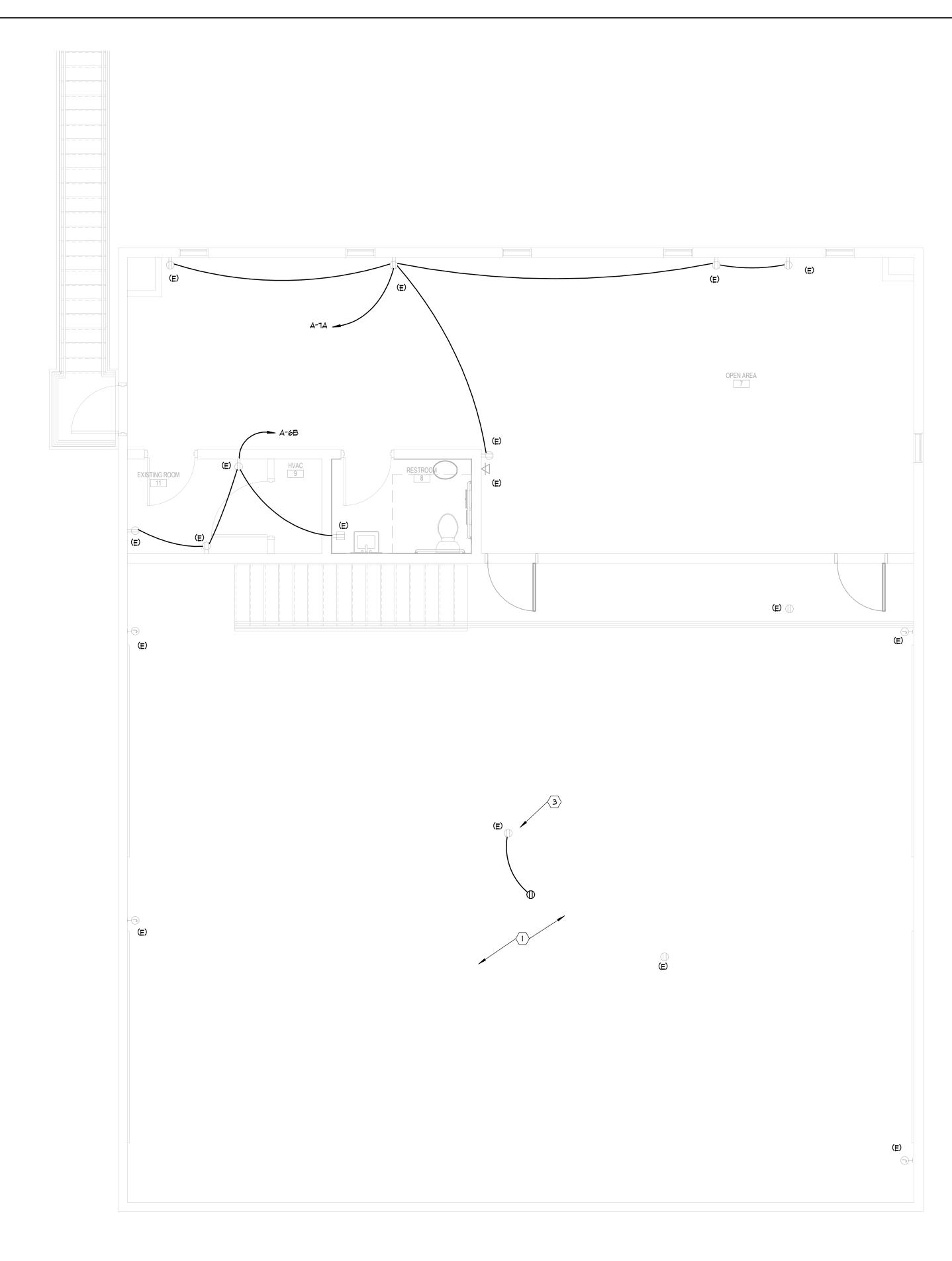
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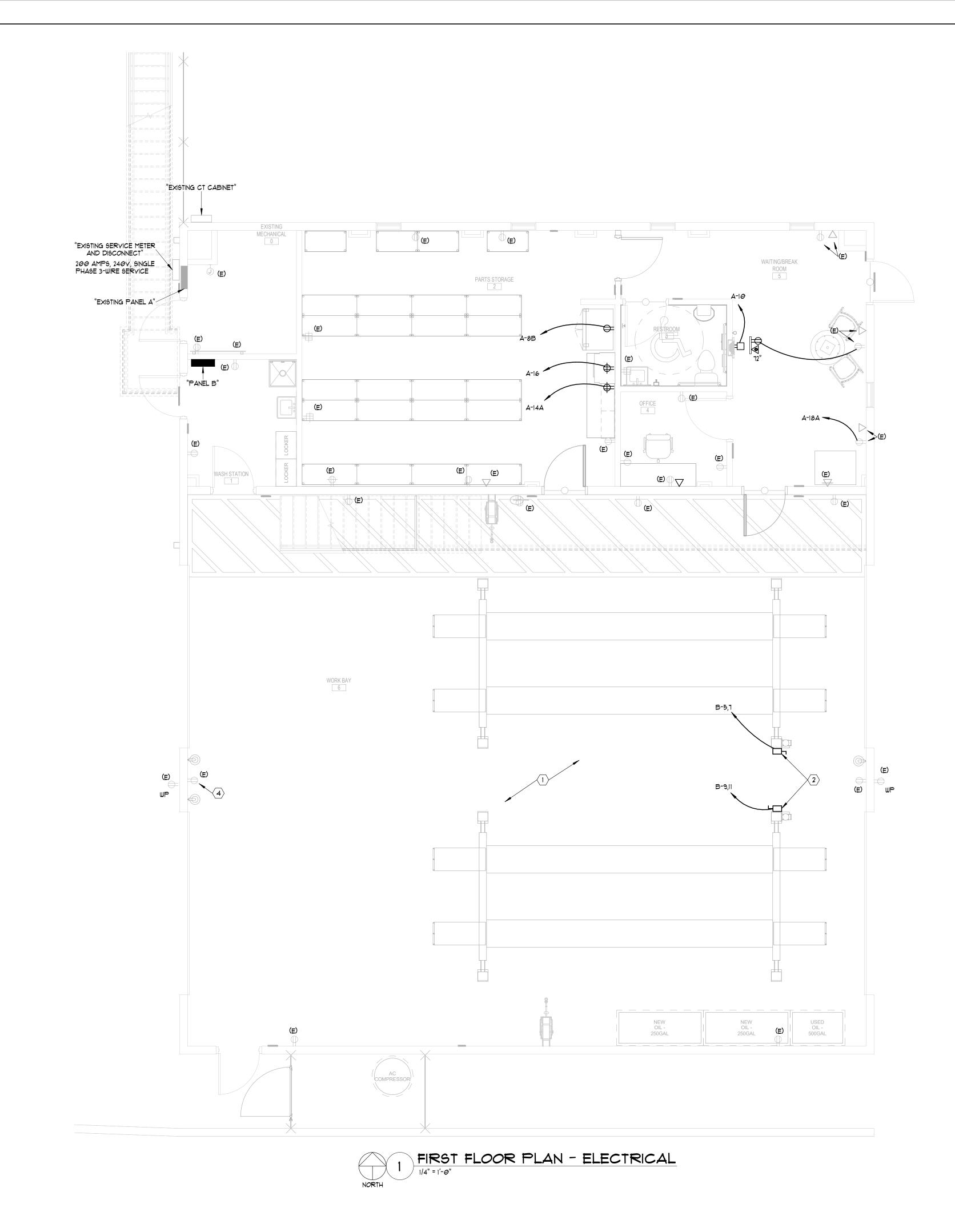
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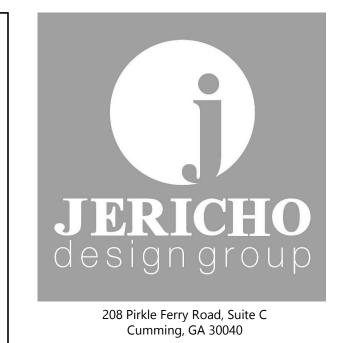
GENERAL NOTES:

- COORDINATE EXACT LOCATION FOR ALL ELECTRICAL AND LIGHTING DEVICES WITH ARCHITECT PRIOR TO INSTALLATION
- 2. LABEL PANELBOARD SCHEDULES PER NEC 408.4
- 4. RECEPTACLE MODIFIER "H" INDICATES DEVICE MOUNTED HORIZONTALLY IN COUNTER.

KEY NOTES:

- ALL RECEPTACLES AND ELECTRICAL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 511 AND NFPA 30A, SECTION 8. ALL RECEPTACLES TO BE GFCI TYPE. ALL RACEWAYS SHALL BE AS SPECIFIED IN ARTICLE 511 AND SEALED WHERE SPECIFIED PER DIVISION AND CLASS.
- igg(2igg) PROVIDE CONNECTION FOR VEHICLE LIFTS. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3 USE EXISTING RECEPTACLE AND CIRCUITS TO FEED ELECTRICAL REELS. REPLACE ALL 120V, 250V SINGLE PHASE RECEPTACLES WITHIN GARAGE AREA WITH GFCI TYPE DEVICES. (TYPICAL)

CONTRACTOR SHALL FIELD VERIFY NEW RECEPTACLES ADDED TO EXISTING RECEPTACLE BRANCH CIRCUITS DO NOT EXCEED 1920VA ON THE EXISTING CIRCUIT AT 180VA PER RECEPTACLE YOKE.







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СТВ Job No. Date 08/01/2025 25092 Sheet Title

FLOOR PLAN -ELECTRICAL



SECOND FLOOR PLAN - LIGHTING NORTH

FIXTURE TYPE	DESCRIPTION	INPUT WATTS	LAMPS	DRIVER	MANUFACTURER
А	2'X4' RECESSED LED TROFFER PANEL	27	LED 3553 LUMEN 9 3500K	0-10V DIMMING	METALUX #CRUZE 24CZ SERIES COLUMBIA #LCAT24 SERIES HE WILLIAMS #LT SERIES
В	2'X2' RECESSED LED TROFFER PANEL	33	LED 4462 LUMEN 9 3500K	0-10V DIMMING	METALUX #CRUZE 22CZ SERIES COLUMBIA #LCAT22 SERIES HE WILLIAMS #LT SERIES
D	4' LED STRIP WITH FROSTED LENS, CHAIN HUNG, WIRE GUAR D	25	LED 3649 LUMEN 9 3500K	0-10V DIMMING	COOPER #9NLED SERIES LITHONIA #ZLID SERIES LEVITON #LCOM SERIES
×	LED EDGE-LIT EXIT SIGN GREEN LETTERS, CLEAR PANEL I OR MIRROR FOR 2 SIDE, UNIVERSAL MOUNTED, BRUSHED ALUMINUM TRIM PLATE, PUNCH OUT CHEVRONS, PROVIDE WITH 90 MIN. NICAD BATTERY BACKUP.	ıω	LED	FIXED LED DRIVER	LITHONIA LIGHTING EDGR-X-GMR SERIES OR EQUAL BY EMERGI-LITE, DUAL-LITE
Z	EMERGENCY BATTERY PACK FLOODLIGHT, 90 MIN. NICAD BATTERY BACKUP, 9'-0" AFF	2-12 W	LED	FIXED LED DRIVER	EMERGILITE #ECX-2 LITHONIA #6ELM2 SUITELITES #CC1 PRESCOLITE #EDS4

I.CONFIRM VOLTAGE WITH DRAWINGS AND COORDINATE/CONFIRM ALL MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO ORDERING AND INSTALLATION.

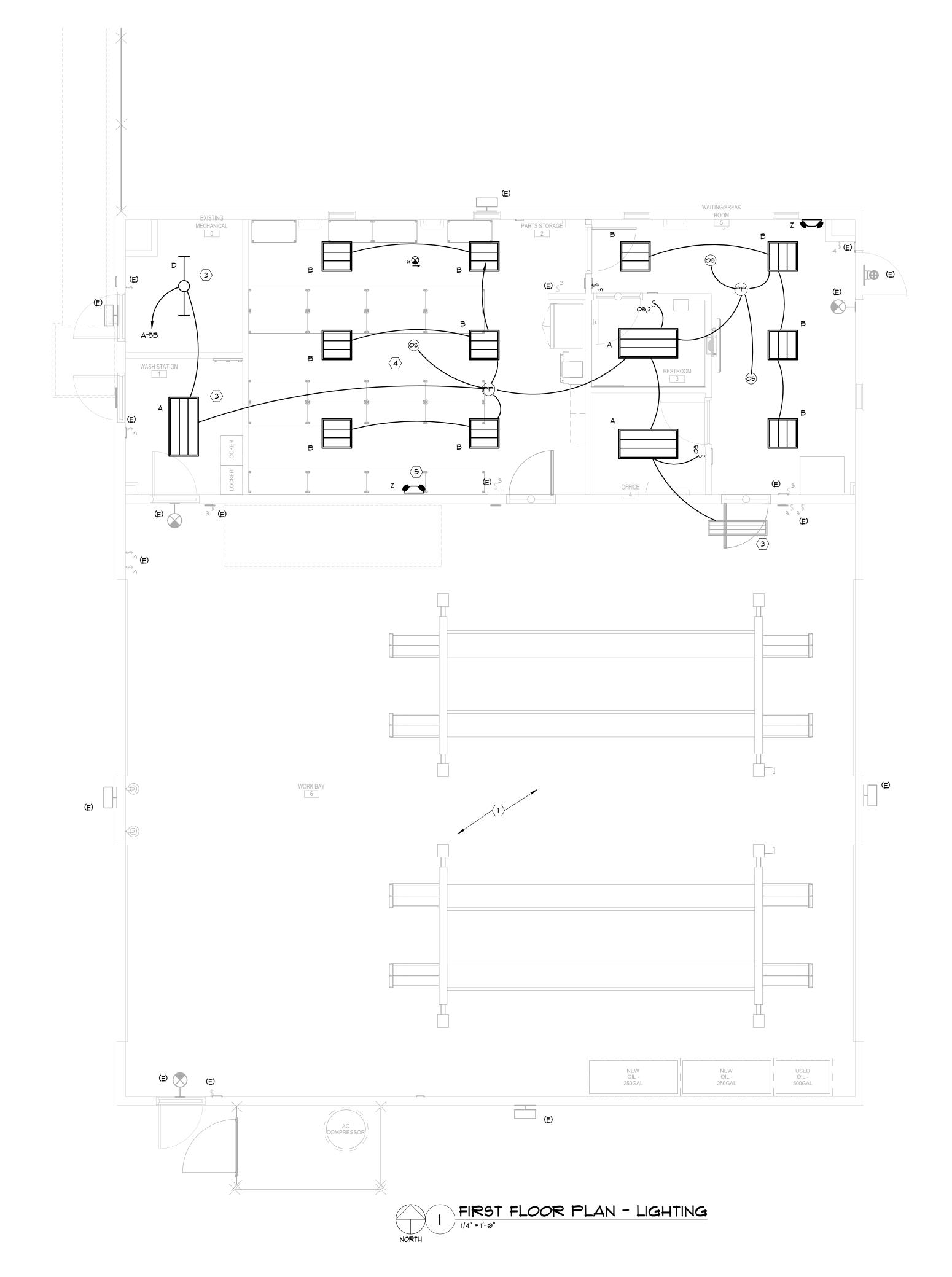
2.PROVIDE MOUNTING OPTION(S) NECESSARY TO ACCOMMODATE CEILING TYPES SPECIFIED BY ARCHITECTURAL DOCUMENTS FOR ALL RECESSED FIXTURES.

3.PROVIDE ALL HARDWARE AND ACCESSORIES TO INSTALL FIXTURES AS INDICATED IN FIXTURE DESCRIPTION.

4.MANUFACTURER PART NUMBERS MAY NOT NECESSARILY MATCH DESCRIPTION. OBTAIN CLARIFICATION IF A CONFLICT EXIST BETWEEN DESCRIPTION AND MODEL NUMBER.

5.MANUFACTURER LISTED AS AN "OR EXCESSIONES".

6.GC SHALL SUPPLY ALL LAMPS/MODULES AND ACCESSORIES.



GENERAL NOTES:

- REFER TO ARCHITECTURAL CEILING PLAN FOR EXACT CEILING TYPE AND HEIGHT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TRIM AND MOUNTING HARDWARE FOR EACH LIGHTING FIXTURE TO MATCH CEILING IN OR ON WHICH IT IS INSTALLED.
- 3. ELECTRICAL CONTRACTOR SHALL MATCH VOLTAGE OF ALL FIXTURES TO THE CIRCUIT WHICH THEY ARE CIRCUITED.
- 4. ALL SURFACE MOUNTED CONDUIT INSTALLED ON CEILING SHALL BE RUN PERPENDICULAR AND OARALLEL TO STRUCTURE AND IN A MANNER THAT IS NEAT AND SECURE.
- 5. ALL EXPOSED CONDUIT RUNS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.
- 6. ALL LIGHTING FIXTURE HEIGHTS LISTED ARE MEASURED TO THE BOTTOM OF THE FIXTURE TO OPERATE OCCUPANCY SENSORS.
- 1. ALL EXIT SIGNS ARE TYPE "X" UNLESS NOTED OTHERWISE.
- 8. ROUTE UNSWITCHED HOT CONDUCTORS FEEDING EMERGENCY BATTERY PACKS, EMERGENCY EGRESS FIXTURES AND EXIT SIGNS AROUND LIGHTING CONTROL RELAYS AND SWITCHES.

KEY NOTES:

DIVISION AND CLASS.

- ALL LIGHT FIXTURES AND ELECTRICAL DEVICES TO BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 511 AND NFPA 30A, SECTION 8.
 ALL RECEPTACLES TO BE GFCI TYPE. ALL RACEWAYS SHALL BE AS SPECIFIED NO RELIGIOUS AND SEALED WHERE SPECIFIED PER
- PROVIDE LED LAMPS FOR EXISTING LIGHT FIXTURES. MATCH LED LAMP LUMEN'S WITH EXISTING ILLUMINANCE. EXISTING CONTROL TO
- REMAIN. REMAIN.
- CEILING MOUNTED OCCUPANCY SENSOR SHALL BE AUTO-OFF AFTER 20 MINUTES OF NO OCCUPANCY IN SPACE/AREA. (TYPICAL FOR ALL CEILING MOUNTED OCCUPANCY SENSORS).
- EMERGENCY EGRESS FIXTURE WITH INTEGRAL BATTERY PACK.

 CONNECT TO UNSWITCHED HOT FROM LIGHTING CIRCUIT SERVING THE AREA FOR CHARGING AND CONTROL (TYPICAL).

- CONNECT LIGHT FIXTURE TO NEW CIRCUIT. EXISTING CONTROL TO

Forsyth County Reviewed Sonya M. Whetstone

Sheet No. Final Approval Subject to Field Inspect RELEASED FOR PERMIT

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Date

08/01/2025

Sheet Title

LIGHTING

FLOOR PLAN -

PRINT RECORD

DESCRIPTION

Checked By

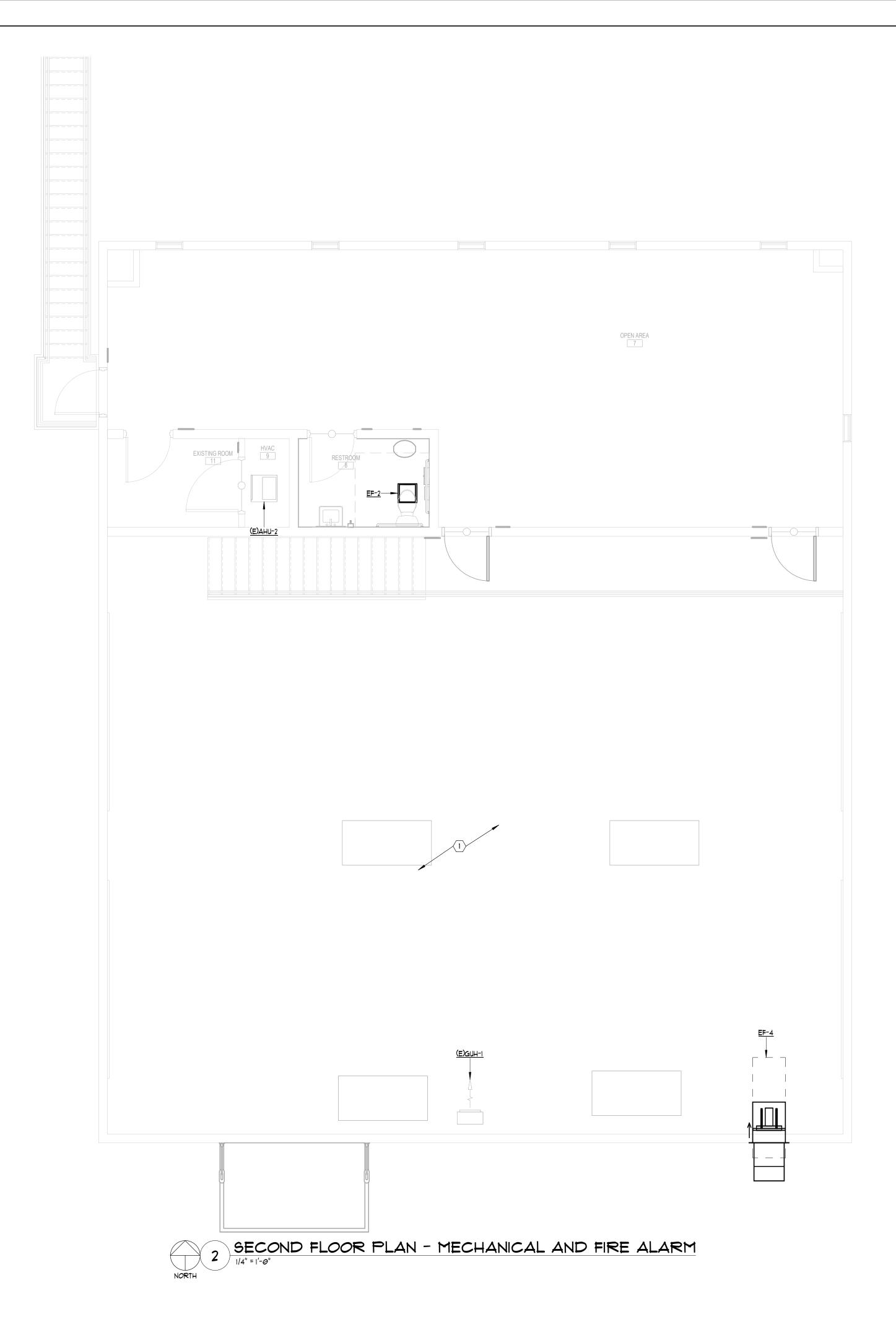
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Job No.

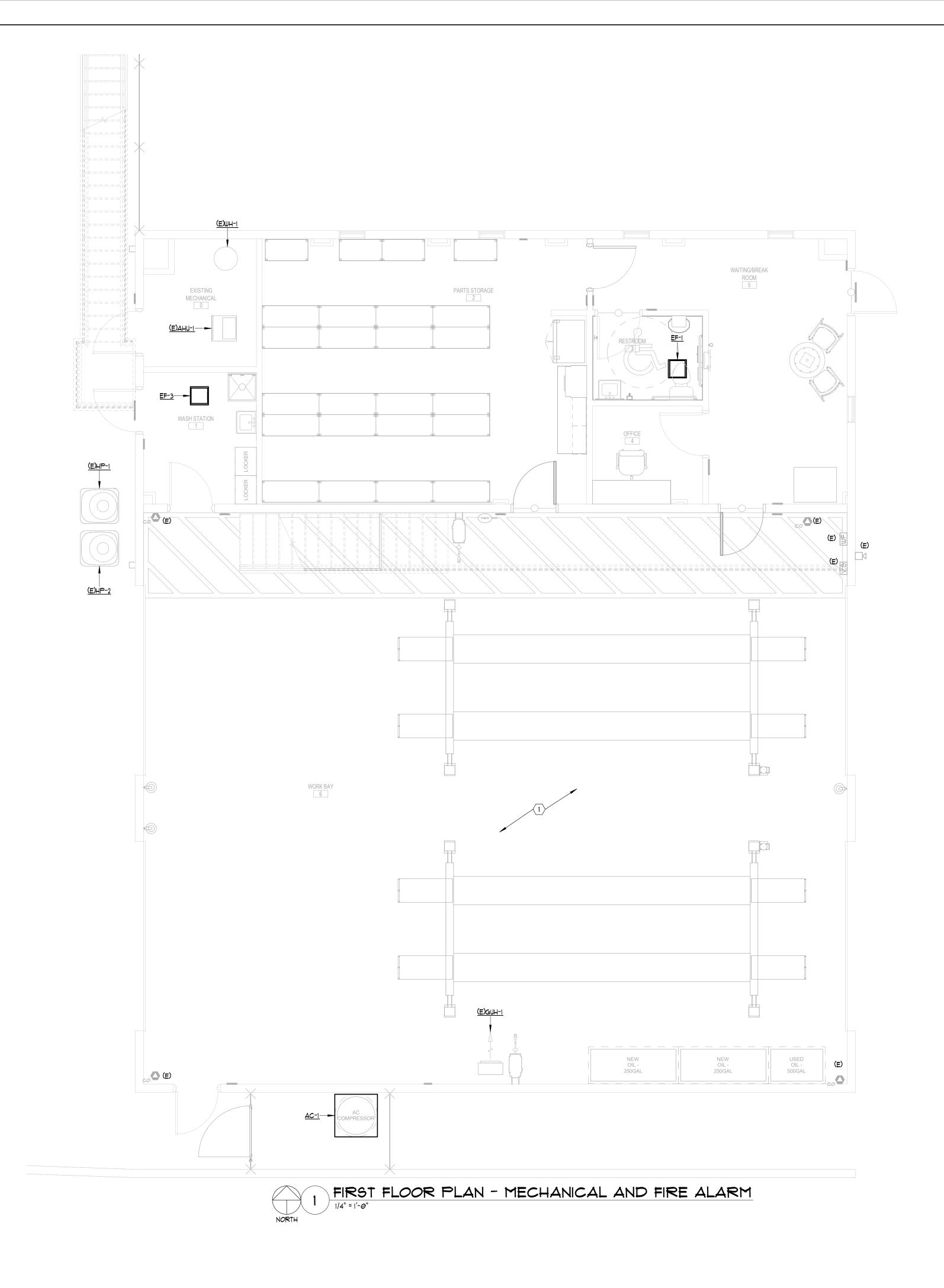
No. DATE

208 Pirkle Ferry Road, Suite C Cumming, GA 30040



	ME	CHANI	CAL EQUIPM	ENT CO	NNECTION S	CHEDULE	
TAG	LOAD	VOLT/ PHASE	CIRCUIT DESIGNATION	BREAKER	BRANCH CIRCUIT	DISCONNECT	NOTES
(E)AHU-1							
(E)AHU-2							
(E)HP-1							
(E)HP-2							
EF-1	16 W	120/1	SEE NOTE	20/1	2#12,1#12G,½"C.	MOTOR RATED SWITCH	1,2
EF-2	16 W	120/1	SEE NOTE	20/1	2#12,1#12 G,½ "C.	MOTOR RATED SWITCH	1,2
EF-3	16 W	120/1	SEE NOTE	20/1	2#12,1#12 G,½ "C.	MOTOR RATED SWITCH	2,3
EF-4	1 HP	120/1	B-2	20/1	2#12,1#12 G,½ "C.	MOTOR RATED SWITCH	4
(E)GUH-1							
AC-1	5 HP	208/1	B-1,3	40/2	2#8,1#8G,3/4"C.	INTEGRAL DISCONNECT	
(E) WH-1							

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES
NUMBER	NOTES
1	FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
2	CONNECT TO NEAREST UNSWITCHED 120V, 20A CONVENIENCE RECEPTACLE WITH 2#12, 1#12G., 3/4"C.
3	FAN TO RUN CONTINOUSLY.
4	FAN TO BE CONTROLLED BY WALL MOUNTED LINE VOLTAGE THERMOSTAT.



MECHANICAL \$ FIRE ALARM GENERAL NOTES:

- REFER TO FIRE ALARM NOTES ON SHEET EØ.1.
- PROVIDE A GFCI TYPE RECEPTACLE WITHIN 25^{\prime} OF ALL MECHANICAL EQUIPMENT PER NEC 210.63(A),(B),(C), and (E).

KEY NOTES:

ALL RECEPTACLES AND ELECTRICAL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 511 AND NFPA 30A, SECTION 8. ALL RECEPTACLES TO BE GFCI TYPE. ALL RACEWAYS SHALL BE AS SPECIFIED IN ARTICLE 511 AND SEALED WHERE SPECIFIED PER DIVISION AND CLASS.

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FLOOR PLAN -MECHANICAL AND FIRE ALARM

PRINT RECORD

DESCRIPTION

No. DATE

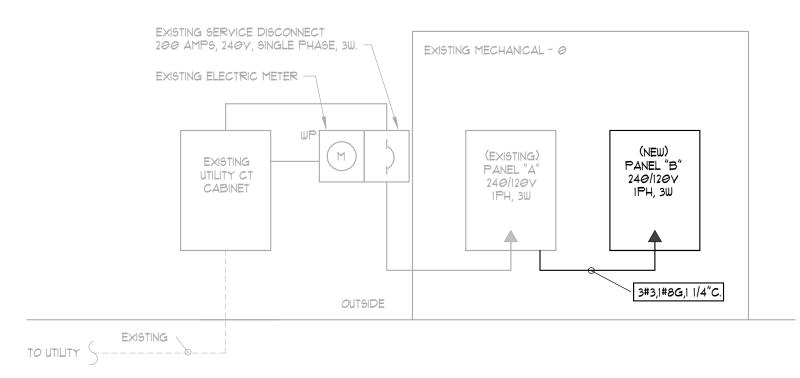
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DENOTES MAIN BREAKER

DENOTES MAIN LUGS OR FEED
THRU LUGS

DENOTES SURGE PROTECTION
DEVICE



RISER DIAGRAM - ELECTRICAL NOT TO SCALE

GENERAL NOTES:

- 1. PANEL SCHEDULUE INFORMATION TAKEN FROM EXISTING "AS BUILT" DRAWINGS AND SITE PHOTOS. CONTRACTOR TO VERIFY EXACT CONDITIONS PRIOR TO WORK.
- CONTRACTOR TO RING OUT ALL CIRCUITS PRIOR TO NEW WORK AND VERIFY AVAILABLE CIRCUITS FOR REUSE. NOTIFY ENGINEEER OF ANY DISCREPANCIES.

				P	ΛΝ	IFI	R(ЭДF	2D	"E	٦"		
VC	DLTAGE:	120 /	240		49E 3 I		MAIN:		-	-	ITING:		
	JS SIZE:	125	AMPS		JLT DU			K	AIC		ACE		
CKT		120	71110	17				ASE		Oursi			CKT
NO	DES	BCRIPTIC	N	LOAD	NOTE	BKR	A	В	BKR	NOTE	LOAD	DESCRIPTION	NO
1	415.0	OMPOE	200	3.2		4010	5.1		20/1		1.9	EF-4	2
3	AIR C	OMPRES	SOR	3.2		40/2		3.2	20/1		0.0	SPARE	4
5		IETED 1		0.9		20/2	0.9		20/1		0.0	SPARE	6
٦	_ L	JFTER 1		0.9		20/2		0.9	20/1		0.0	SPARE	8
9		JETED 0		0.9		20/2	0.9		20/1		0.0	SPARE	10
11	<u> </u>	JFTER 2		0.9		20/2		0.9	20/1		0.0	SPARE	12
13	SPACE			0.0		20/1	0.0		20/1		0.0	9PACE	14
15	SPACE			0.0		20/1		0.0	20/1		0.0	SPACE	16
17	SPACE			0.0		20/1	0.0		20/1		0.0	9PACE	18
				'	<u>'</u>		6.9	5.0		'			
LIGH.	TING:	0.0	× 125	% =	0	.0	BUS	KVA	NOTES	ે ઃ			
REC	EPT:	10.0	× NEC 2	20.44	10	.0	А	В	1				
MOTO	ORS:	1.9	× 10	0%	1.	9	6.9	5.0					
A/C:		0.0	× 10	<i>9</i> %	0	.0							
HEA1	TING:	0.0	× 10	<i>9</i> %	0	.0							
KITC	HEN:	0.0	× NEC 2	20.56	0	.0							
NON-	CONT.:	0.0	× 100	∂% °	0	.0	1						
TOTA	LKYA	11.9	CALC	KVA	11.	.9	1						
TOTA	L AMPS	49.6	CALC A	AMPS	49	3.6	1						

	N + 4 < =	1051										"A"	
	DLTAGE:	120 /		_	46E 3				A MLO	MOUN			
	JS SIZE:	225	AMPS	FA	JLT DU	11:		K AGE	AIC	SUR	ACE		
CKT	DE	SCRIPTIC	N	LOAD	NOTE	BKR		ASE	BKR	NOTE	LOAD	DESCRIPTION	CKT
NO 1				2.5			A 7	В			2.2		NO 2
1	SEI	PTIC PUM	P	2.5	2	30/2	4.7	4.7	35/2	2	2.2	AC UPSTAIRS - AHU2	4
3 5A	1150	2+AIDC 1	-6	1.0	1	20/1	2.0	4. 1	20/1	2	1.0	LIG EUDNIACE	6A
5B		STAIRS LI		1.0	1	20/1	2.0	1.7	20/1	2	0.7	US FURNACE	6B
		NSTAIRS			1	20/1	1.9	1. 1	20/1	1		UPSTAIRS REC	84
74		TAIRS RE		0.9	1	20/1	1.5	2.0	20/1	2	1.0	EXISTING BREAKER	8B
7B 9A		FF + BAY		0.9	2	20/1	2.1	2.0	20/1	4	1.1	REFREGIRATOR STORAGE	10
9B		M, BATH R BAY DO		1.0	2	2 <i>0</i> /1	2.1	2.0	20/1	4	1.0	WATER FOUNTAIN	12
11 <i>A</i>		BAY LTS	JOR	1.5	2	20/1	2.5	2.0	20/1	2	1.0	EXISTING BREAKER COFFEE MACHINE	144
118		RT \$ RR	- A~	0.9	2	20/1	2.5	1.9	20/1	2	1.0	EXISTING BREAKER	148
13	REC F	KI 4 KK	DAI	1.0	2	2011	2.1	1.5	20/1	4	1.1	MICROWAYE	140
15	BAY	AIR CLEA	NER	1.0	2	20/2	2.1	2.1	20/1	4	1.1	VENDING MACHINE	184
17			1.0			2.0	2.1	20/1	2	1.0	REAR BAY DOOR	18B	
19	BAY	AIR CLEA	NER	1.0	2	20/2	2.0	1.5	20/1	2	0.5	BAY ENGINE LTS	20
21				6.9			8.6	1.5	2011	2	1.7	DAT ENGINE LIS	22
23	f	PANEL B		5.0	3	8012	0.6	6.7	20/2	2	1.7	AC DOWNSTAIRS - AHUI	24
25		FSAS		1.5	2	20/1	2.5	D . 1	20/1	2	1.0	OUTSIDE LTS	264
27	<u> </u>	RD REEL	<u> </u>	1.0	2	20/1	2.5	2.0	20/1	2	1.0	CORD REELS	26B
29		1ECH RM	.5	0.5	2	20/1	1.5	2.0	20/1	2	1.0	GARAGE DOOR	284
23	'	ILCH KIT		0.0	2	2011	1.5	1.0	20/1	2	1.0	FRT RIGHT BAY DOOR	28E
				0.0			1.0	1.0	20/1	2	1.0	DS FURNACE	304
				0.0			1.0	1.0	20/1	2	1.0	EXISTING BREAKER	30E
				0.0			30.9	25.6	2011		1.0	EXISTING DIVERNER	
LIGHT	ING:	5.0	× 125	% =	6	.3			NOTES	 }:			
RECE		26.6	× NEC 2	20.44		.3	А	В	4		NG BF	REAKER. NEW LOAD	
MOTO		5.9	× 10	0%		.9	30.9		2			REAKER. EXISTING LOAD TO	
A/C:		6.0	× 10	0%		0			」 3	PROV	IDE N	EW BREAKER.	
HEAT	ING:	7.7	× 10	9%		. 7	-		4			EW GFI BREAKER.	
KITCH		5.3	× NEC 2			4	-						
	CONT.:	0.0	× 106	 Э%°		.0	-						
				14 4			+						
TOTA	L KVA				4	.6							







No.	DATE	DESCRIPTION
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KG		СТВ
Date		Job No.
08/01/20	25	25092

PANEL SCHEDULES AND RISER DIAGRAM

Forsyth County Reviewed

By reviewing the plans for Code Compliance, it does not releive the owner, design protessions, contractors or their representatives from the responsibility to comply with all locals, due and retionar locals and standards in clock of every liet and does not prevent this department from requiring corrections design construction. Any clock of every liet and does not prevent the department from requiring corrections design construction. Any clock of the contract of the

Sheet No.

E2.1

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<u>ABBR</u>	SYMBOL	<u>DESCRIPTION</u>
ACC		AIR COOLED CONDENSER
A/C		ABOVE CEILING
AD		ACCESS DOOR
ADJ		ADJUSTABLE
AFF		ABOVE FINISHED FLOOR
AHU		AIR HANDLING UNIT
AUTO		AUTOMATIC
BAL		BALANCING
BDD		BACKDRAFT DAMPER
B'FLY		BUTTERFLY
B/F		BELOW FLOOR
B/G		BELOW GRADE
BHP		BRAKE HORSEPOWER
	TYPE-CFM	CEILING SUPPLY AIR DIFFUSER CEILING RETURN AIR REGISTER / GRILLE
	TYPE	OR EXHAUST REGISTER / GRILLE
CFM		CUBIC FEET PER MINUTE
CON		CONCENTRIC
	•	CONNECT TO EXISTING
CRAC		COMPUTER ROOM UNIT (INDOOR)
CU		CONDENSING UNIT
	/	CONTROL WIRE
DB		DECIBEL9
	→	DIRECTION OF AIRFLOW
DB	,	DRY BULB
DN		DOWN
DR		DRAIN
DSS		DUCTLESS SPLIT SYSTEM
DWG		DRAWING
	У Д	DUCTWORK - NEW
	/ []	DUCTWORK - EXISTING OR DIFFUSER TO REMAIN
		DUCT - SUPPLY OR OUTSIDE AIR UP
		DUCT - RETURN OR EXHAUST UP
		DUCT - SUPPLY OR OUTSIDE AIR DOWN
		DUCT - RETURN OR EXHAUST DOWN
		DUCT TRANSITION - SQUARE-TO-ROUND (OR OVAL)
	DD	DUCT MOUNTED SMOKE DETECTOR (WIRED BY DIV. 16)
(E)		EXISTING
EA		EXHAUST AIR
EAT		ENTERING AIR TEMPERATURE
ECC		ECCENTRIC
ECH		ELECTRIC CEILING HEATER
EDH		ELECTRIC DUCT HEATER
EF		EXHAUST FAN
EFF		EFFICIENCY
ESP		EXTERNAL STATIC PRESSURE
ET		EXPANSION TANK
EUH		ELECTRIC UNIT HEATER
EWH		ELECTRIC WALL HEATER
EWT		ENTERING WATER TEMPERATURE
EA		EXHAUST AIR
° F		FAHRENHEIT
FCU		FAN COIL UNIT
	FD >	FIRE DAMPER
FLR		FLOOR
F. <i>O</i> .		FLAT OVAL DUCT
FOB		FLAT ON BOTTOM
FOT		FLAT ON TOP
FPM		FEET PER MINUTE
FPS		FEET PER SECOND
. 🕶	FSD▶	FIRE AND SMOKE DAMPER
		FEET FEET
FT		1

<u>ABBR</u>	SYMBOL	DESCRIPTION
GPM		GALLONS PER MINUTE
HP		HEAT PUMP
HTG		HEATING
HX		HEAT EXCHANGER
HZ		HERTZ
ID.	(H)	HUMIDISTAT INSIDE DIMENSION
N Z		INCHES
KW		KILOWATT6
KVA		KILO VOLT AMPS
LAT		LEAVING AIR TEMPERATURE
LB		Pounds
		LIMITS OF DEMOLITION
		LINEAR SLOT DIFFUSER
MAX		MAXMUM
MD		MANUAL DAMPER
MFR		MANUFACTURER
MIN		MINIMUM
MOD		MOTOR OPERATED DAMPER
MVD	R	MANUAL VOLUME DAMPER
NC		NORMALLY CLOSED
NO NO		NORMALLY OPENED
NOM		NOMINAL
OA		OUTSIDE AIR
OBD		OPPOSED BLADE DAMPER
OD		OUTSIDE DIMENSION
PIU		POWERED INDUCTION UNIT
PRV		PRESSURE REDUCING VALVE
PSI		POUNDS PER SQUARE INCH
PTAC		PACKAGED TERMINAL AIR CONDITIONER
	R	RELOCATION
(R)		RELOCATED
RA		RETURN AIR
RAG		RETURN AIR GRILLE
RAT		RETURN AIR TRANSFER
RED		REDUCER
	R	REFRIGERANT SUCTION AND DISCHARGE TUBING. (ROUTED TOGETHER)
RTU		ROOFTOP UNIT
SA		SUPPLY AIR
scu		SELF CONTAINED UNIT
	9D ▶	SMOKE DAMPER
SEN		SENSIBLE
SF	0	9QUARE FEET
SF		SUPPLY FAN
s P		STATIC PRESSURE
SPS		STATIC PRESSURE SENSOR
sa		SQUARE
SR		SUPPLY REGISTER
		9IDE-WALL OR DUCT MOUNTED RETURN OR EXHAUST AIR REGISTER / GRILLE
TEMP		TEMPERATURE
	(19	TEMPERATURE SENSOR
† G		TRANSFER GRILLE
tu		TERMINAL UNIT
	(THERMOSTAT
TYP		TYPICAL
UNO		UNLESS NOTED OTHERWISE
VA		VALYE
		VARIABLE AIR VOLUME
VAV		
WB		WET BULB
		WET BULB WATER COLUMN
WB		
WB WC		WATER COLUMN

									DIFFUSE	R, REGISTER	\$ \$ GRILLE	SCHEDULE					
TAG	TYPE OF SERVICE	FACE SIZE	NECK SIZE	RUNOUT SIZE	# OF SLOTS	SLOT WIDTH		MAX SP (IN WG)	INTEGRAL DAMPER	BASIS OF DESIGN			NECK SIZE	9CHEDULE			NOTES
	OLIVIOL	0,22			02010	w.D 111	INDON IND	W 47			6"Ф	8"Ф	1Θ"Φ	12"Ф	14"Φ	16"Φ	
Α	SA	24"×24"	NOTE 3	NOTE 1			30	0.10	N	TITUS: PAS	0 - 120 CFM	125 - 220 CFM	225 - 350 CFM	355 - 450 CFM	455 - 550 CFM	555 + CFM	2 5
В	RA/EA	24"×24"	SEE PLANS	SEE PLANS			30	0.10	N	TITUS: PAR							2 5
С	SA	12"×12"	NOTE 3	NOTE 1			30	0.10	N	TITUS: PAS	0 - 120 CFM						2 5
×										EXISTING							4
	_						-	1	-			1					1

NOTE:

1: RUNOUT SIZE SHALL BE EQUAL TO NECK SIZE, UNLESS NOTED OTHERWISE ON DRAWINGS.

2: FINISH FOR ALL DEVICES SHALL BE NO. 26 WHITE, UNLESS OTHERWISE INDICATED ON ARCHITECTURAL DRAWINGS.

3: SEE NECK SIZE SCHEDULE.

4: CONTRACTOR SHALL BALANCE DIFFUSER/GRILLE TO AIRFLOW LISTED ON PLANS.

5: SEE ARCHITECTURAL PLANS FOR CEILING TYPE. PROVIDE CORRECT BORDER TYPE FOR CEILING APPLICATION.

	SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE (INDOOR UNIT)														
TAG	SUPPLY	O.A.	E,	ΑT	LA	41	OA AMB	SUPPLY FAN E		I. AUX. HEATING		ELECTRICAL		BASIS OF DESIGN	NOTEC
IAG	CFM	CFM	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	HP (WATTS)	W.G.)	CAP. (KW)	VOLT/PH.	MCA	MOCP	BASIS OF DESIGN	NOTES
(E)AHU-1	830	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING	1
(E)AHU-2	850	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING	1
NOTES: 1: EXISTING UN	IT TO REMAI	N. CONTR	ACTOR SHA	ALL INSPECT	EXISTING U	NITS AND R	EPAIR AS F	REQUIRED FOR	FULL OPER	ATION.				·	

			SF		SYSTEM	HEAT	PUMP	SCHE	DULE	(OUTDOC	PR UNIT)	
	(COOLING CA	APACITY		HEATING C	CAPACITY		ELECTRICAL				
TAG	TONS	TOTAL	SENS	EER	MBH @ HIGH	COP]	LECTRICAL	-	NET WT. (LBS)	BASIS OF DESIGN	NOTES
	(NOMINAL)	(MBH)	(MBH)	EER	ARI	COP	VOLT/PH	MCA	MOCP			
(E)HP-1	-	-	-	-	-	-	-	-	-	-	EXISTING	1
(E)HP-2	-	-	-	-	-	-	-	-	-	-	EXISTING	1

	FAN SCHEDULE													
TAG	LOCATION	AIRFLOW (CFM)	ESP (IN WG)	MOTOR POWER (WATTS OR HP)	DRIVE	VOLT/Φ	MAX FAN RPM	MAX SONES	TYPE OF FAN	BASIS OF DESIGN	NOTE9			
EF-1	3 - RR	10	0.5	16	DIRECT	120/1	773	3	CEILING CABINET EXHAUST FAN	GREENHECK: 9P	1234			
EF-2	8 - RR	10	0.5	16	DIRECT	120/1	113	3	CEILING CABINET EXHAUST FAN	GREENHECK: 9P	1234			
EF-3	1 - WASH STATION	10	0.5	16	DIRECT	120/1	773	3	CEILING CABINET EXHAUST FAN	GREENHECK: 9P	1235			
EF-4	6 - WORK BAY	4,010	0.5	1 HP	DIRECT	120/1	1,709	25	SIDEWALL DIRECT DRIVE EXHAUST FAN	GREENHECK: AER	12367			

NOTES:
1: DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR
2: PROVIDE WITH FACTORY SPEED CONTROLLER
3: PROVIDE WITH BACKDRAFT DAMPER
4: FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
5: FAN TO RUN CONTINOUSLY
6: FAN TO BE CONTROLLED BY WALL MOUNTED LINE VOLTAGE THERMOSTAT SET TO 80°F (ADJ)
7: PROVIDE FAN WITH WEATHER HOOD, MOTOR GUARD, WALL SLEEVE TO MATCH EXISTING WALL THICKNESS.

BE ADVISED ANY CHANGES TO GAS PIPING OR REPLACEMENT OF UNIT HEATER WILL REQUIRE INSPECTION~SMW

			GA	45 UN	T HEATER	SCHEDUL	E		
TAG	DE9CRIPTION	CAPACITY (MBH)	OUTPUT (MBH)	CFM	FAN MOTOR HP	WEIGHT LBS.	HEATER TYPE	BASIS OF DESIGN	NOTES
(E)GUH-1	GAS UNIT HEATER	-	-	-	-	-	GAS, CEILING SUSPENDED	EXISTING	1

					IVER SCH			
TAG	CAPACITY (CFM)	MAX PD	DIMENSIONS		MIN FREE AREA	SERVICE	BASIS OF DESIGN	NOTES
		(IN WG) WIDTH	WIDTH	HEIGHT	(SQ FT)	OLIV IOL	DAGIO DI DEGIGIN	HOILS
LV-1	4,070	0.05	44	44	7.9	INTAKE	GREENHECK: ESD	1 2 3

SHEET LIST HYAC		
SHEET NUMBER	SHEET NAME	
M-0.01	LEGENDS AND SCHEDULES - HYAC	
M-0.02	SPECIFICATIONS	
M-0.03	DETAILS - HVAC	
M-1.00	DEMOLITION PLANS - HVAC	
M-1.01	FLOOR PLANS - HVAC	

208 Pirkle Ferry Road, Suite C Cumming, GA 30040



PRINT RECORD No. DATE DESCRIPTION

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Sheet Title LEGENDS AND SCHEDULES - HVAC

Sheet No.

RELEASED FOR PERMIT

ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, SMACNA STANDARDS, AND ASHRAE GUIDELINES.

THE WORK SHALL CONSIST OF ALL LABOR AND MATERIAL TO COMPLETELY INSTALL ALL WORKS AS SHOWN ON THESE DRAWINGS.

COORDINATE LOCATION OF PIPE ROUTING, DUCTWORK AND DIFFUSERS WITH LIGHT FIXTURES WITH ELECTRICAL CONTRACTOR. RELOCATE PIPING \$/OR DUCTWORK, IF NECESSARY, AS DIRECTED BY THE ARCHITECT/ENGINEER.

4. ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED

THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.

THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL DAMPERS

REFER TO THE ENTIRE CONTRACT DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE MECHANICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINES WORK.

AND VALVES SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.

ALL DUCT AND PIPING MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.

COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN

O VERIFY FRAME TYPES BASED ON CEILING TYPE. COORDINATE VALVE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN

TO MAKE CERTAIN NONE ARE INSTALLED OVER GYPSUM BOARD CEILINGS. THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS

THERMOSTATS SHALL BE LOCATED IN EACH ZONE AS INDICATED ON PLAN. THE EXACT LOCATION ON THE WALL SHALL BE AS DIRECTED BY THE ARCHITECT.

PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL

COST FOR MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CONFIRMATION

OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE

13. CONTRACTOR SHALL PROVIDE (2) SETS OF FILTERS FOR EACH AHU COIL: ONE DURING

CONSTRUCTION AND ONE SET AT COMPLETION OF CONSTRUCTION. FILTERS SHALL BE 1" THICK PLEATED, MINIMUM 30% EFFICIENT (MERY RATING OF 1). ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE CONTRACTORS SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES, AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS.

MECHANICAL CONTRACTOR. 15. ALL PIPING, DUCTWORK, INSULATION, CONSTRUCTION STANDARDS, ETC. MUST BE EQUAL TO OR GREATER THAN EXISTING BUILDING STANDARDS. THE USE OF RIGID

FIBER DUCT BOARD AND PYC IS NOT PERMITTED. 16. LANDLORD SHALL HAVE FIRST REFUSAL FOR EXISTING EQUIPMENT AND MATERIALS SHOWN OR LISTED TO BE REMOVED FROM THE PROPERTY. EQUIPMENT AND MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE IF NOT ACCEPTED BY THE LANDLORD.

CONTRACTOR SHALL PROVIDE MANUAL VOLUME DAMPER AT SUPPLY AND/OR RETURN AIR TAKE-OFFS IF NONE EXIST TO PROPERLY BALANCE SYSTEMS WITHIN THE

SCOPE OF WORK. CONTRACTOR SHALL CLEAN AND/OR PAINT EXISTING AIR DISTRIBUTION DEVICES TO

FIRE PROTECTION NOTES

CONTRACTOR SHALL PROVIDE STAMPED SPRINKLER DRAWINGS IN COMPLIANCE WITH ALL APPLICABLE FEDERAL. STATE, AND LOCAL CODES, AND IN ACCORDANCE WITH NFPA... CONTRACTOR SHALL PROVIDE GUARANTEE COVERING ALL WORK AND MATERIALS FOR ONE YEAR.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FLOW TEST DATA AND PREPARING HYDRAULIC CALCULATIONS IF REQUIRED BY AUTHORITY HAVING

CONTRACTOR TO CONFIRM STRUCTURAL AND SUPPLY HYDRAULIC INFORMATION PRIOR TO SYSTEM MODIFICATION AND INSTALLATION.

4. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF ALL HEADS TO INSURE WORK WILL NOT CONFLICT WITH CEILING GRID AND LIGHTS. COORDINATE WITH ALL OTHER

RELOCATE/PROVIDE NEW (MATCH EXISTING TYPE) SPRINKLER HEADS AND COORDINATE WITH LIGHTS, GRILLES, \$ DIFFUSERS WITHIN THE REQUIREMENTS OF NFPA 13.

REVISED SPRINKLER LAYOUT SHALL COMPLY WITH NFPA 13.

SPRINKLER PIPING SHALL BE ASTM A135, SCHEDULE 40 BLACK STEEL FOR 2" AND SMALLER PIPE SCHEDULE 10 BLACK STEEL MAY BE USED FOR 2-1/2" AND LARGER PIPE.

MECHANICAL (HYAC \$ PLUMBING) SPECIFICATIONS A. GENERAL CONDITIONS OTHER CONTRACT DOCUMENTS

> THE GENERAL CONDITIONS AND OTHER CONTRACT DOCUMENTS AS SET FORTH HEREBY ARE TO BE INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR THE WORK UNDER THIS DIVISION.

B. CODES AND PERMITS COMPLY WITH ALL RULES, REGULATIONS OF STATE, COUNTY, AND CITY AUTHORITIES HAVING JURISDICTION OVER THE PREMISES, INCLUDING SAFETY REQUIREMENTS OF OSHA. DO NOT CONSTRUE THIS AS RELIEVING CONTRACTOR FROM COMPLYING WITH SPECIFICATIONS WHICH EXCEED CODE REQUIREMENTS AND NOT IN CONFLICT THEREWITH.

SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION REQUIRED.

C. LOCAL CONDITIONS:

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND BE FAMILIAR WITH ALL EXISTING CONDITIONS. SPECIAL ATTENTION SHALL BE GIVEN TO WORK TO BE PERFORMED ABOVE AN EXISTING CEILING. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS

THIS CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.

WHERE EXISTING SLABS ARE TO BE CUT OR CORE DRILLED, THE CONTRACTOR SHALL X-RAY THE EXISTING SLABS TO AVOID CUTTING OR DISRUPTING EXISTING CONDUITS, CABLES, PLUMBING OR STRUCTURAL

4. HVAC SYSTEMS, PLUMBING SYSTEMS, AND ELECTRICAL SERVICE TO THE BUILDING SHALL NOT BE INTERRUPTED WITHOUT WRITTEN CONSENT OF THE BUILDING OWNER.

AT THE COMPLETION OF THE PROJECT, ALL WORK UNDER THIS DIVISION SHALL BE COMPLETELY INTEGRATED WITH THE EXISTING SYSTEMS AND LEFT IN

PERFECT OPERATING CONDITION.

PRIOR TO ANY DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL HAVE THE EXISTING CONDITIONS INSPECTED BY AN EPA. OSHA CERTIFIED ASBESTOS ABATEMENT AGENCY TO IDENTIFY THE PRESENCE OF ASBESTOS. SHOULD ANY ASBESTOS BE FOUND IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER AND SPECIFICALLY IDENTIFIED IN

D. DRAWINGS

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.

THE DRAWINGS ARE SCHEMATIC ONLY AND ARE INTENDED TO SHOW APPROXIMATE LOCATIONS. DO NOT SCALE.

E. SHOP DRAWINGS/SUBMITTALS

THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON THE ITEMS OF EQUIPMENT AND SYSTEMS AS NECESSARY TO CLEARLY SHOW EQUIPMENT THE GENERAL CONTRACTOR SHALL REVIEW, COMMENT AND STAMP THE SHOP DRAWINGS/SUBMITTALS PRIOR TO THE ENGINEER REVIEW.

THIS CONTRACTOR SHALL HAVE IN CHARGE OF THE WORK, A COMPETENT SUPERINTENDENT WITH EXPERIENCE IN THE WORK TO BE INSTALLED UNDER

G. COORDINATION

THIS CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH THE OTHER CONTRACTORS. HE SHALL ARRANGE HIS WORK WITH THEIRS SO THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION.

EXAMINE WORK OF OTHER TRADES WHICH COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. DO NOT ATTACH TO, COVER, OR FINISH AGAINST ANY DEFECTIVE WORK, OR INSTALL WORK OF THIS DIVISION IN A MANNER WHICH WILL PREVENT OTHER TRADES FROM PROPERLY INSTALLING THEIR WORK. CONSULT ALL DRAWINGS, SPECIFICATIONS AND DETAILS OF OTHER DIVISIONS OF THE WORK. H. CUTTING AND PATCHING

ALL CUTTING AND PATCHING WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR REPAIRS SHALL MATCH NEW AND/OR EXISTING CONDITIONS. I. GUARANTEE AND WARRANTIES

> CONTRACTOR SHALL WARRANT THAT EQUIPMENT AND ALL WORK IS INSTALLED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND THAT ALL EQUIPMENT WILL MEET REQUIREMENTS SPECIFIED. ANY EQUIPMENT FAILING TO PERFORM OR FUNCTION AS SPECIFIED SHALL BE REPLACED WITH COMPLYING EQUIPMENT, WITHOUT COST TO THE OWNER.

GUARANTEE AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS. MAKE GOOD REPAIR OR REPLACE ANY DEFECTIVE WORK, MATERIAL OR EQUIPMENT WITHIN (I) ONE YEAR FROM DATE OF ACCEPTANCE.

J. INSTALLATION REQUIREMENTS

LOCATIONS OF PIPING, EQUIPMENT, DUCTS, ETC., ON THE DRAWINGS IS DIAGRAMMATIC. INDICATED POSITIONS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. EXACT LOCATIONS SHALL BE SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER WORK. ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN LOCATION OF ANY PART OF THE WORK UP TO THE TIME OF ROUGHING-IN WITHOUT ADDITIONAL

K. TEST AND ADJUSTMENTS

OBTAIN ALL INSPECTIONS REQUIRED BY LAW, ORDINANCES, RULES, REGULATIONS OF AUTHORITIES HAVING JURISDICTION, FURNISH CERTIFICATES OF SUCH INSPECTIONS. PAY ALL FEES AND PROVIDE ALL EQUIPMENT, POWER AND LABOR NECESSARY FOR INSPECTIONS AND TEST.

PRESSURE TESTS A. ALL PIPING SHALL BE GIVEN THE FOLLOWING PRESSURE TEST WITHOUT APPRECIABLE PRESSURE DROP. EQUIPMENT WHICH WOULD BE DAMAGED BY THE REQUIRED TEST PRESSURE SHALL BE ISOLATED FROM THE SYSTEM DURING TESTING.

(PSI) DOMESTIC WATER WATER 125 B. SANITARY SEWERS PER STATE PLUMBING CODE AND LOCAL AUTHORITY.

L. HVAC SYSTEMS ADJUSTMENTS AND BALANCE

PROVIDE A COMPLETE TEST AND BALANCE OF THE SYSTEMS THAT SERVE THIS SPACE. PLACE ALL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND CONTINUE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING. EVERY SUPPLY OUTLET SHALL BE TESTED AND BALANCED TO WITHIN 10% OF AIR QUANTITIES SHOWN. OUTSIDE AIR AND EXHAUST AIR SHALL BE BALANCED TO WITHIN 5% OF AIR QUANTITIES SHOWN. CFM OFFSETS WHERE CALLED OUT SHALL BE MET WITHIN 5% OF CFM LISTED.

THE TEST AND BALANCE SHALL BE PERFORMED BY AN AABC OR NEBB CERTIFIED TEST AND BALANCE CONTRACTOR THAT MUST BE A DIFFERENT COMPANY THAN THE MECHANICAL CONTRACTOR.

SUBMIT A CERTIFIED TEST AND BALANCE REPORT TO THE ENGINEER FOR APPROVAL. REPORT SHALL INCLUDE (AT A MINIMUM) THE FOLLOWING: NAMEPLATE DATA FOR ALL POWERED DEVICES. DIFFUSER LAYOUT (DRAWING) DEPICTING ALL DIFFUSERS AND EQUIPMENT. DIFFUSER TAGS SHALL SHOW THE INITIAL AND FINAL

READINGS OF ALL DIFFUSERS AND GRILLES. AIRFLOW AT UNIT SUPPLY, RETURN, AND OUTSIDE AIR

(IF APPLICABLE) CONNECTIONS AIRFLOW AT ALL SUPPLY AIR DIFFUSERS

AIRFLOW AT ALL EXHAUST GRILLES. AIRFLOW AT OUTSIDE AIR CONNECTIONS

AIR TEMPERATURE INLET AND OUTLET AT EACH NEW HEATING OR COOLING COIL.

H. WATER FLOW AT UNIT COILS HA. ENTERING AND LEAVING WATER TEMPERATURE WATER FLOW AT PUMP DISCHARGE

IA. PRESSURE AND TEMPERATURE AT DISCHARGE FINAL DIFFUSER READINGS THAT DIFFER FROM THE DRAWINGS BY MORE

THAN THE LIMITS ABOVE SHALL BE NOTED IN THE REPORT. EXISTING EQUIPMENT TO REMAIN: THE MECHANICAL CONTRACTOR SHALL THOROUGHLY INSPECT AND TEST THE OPERATION OF THE EACH EXISTING HEATING/COOLING SYSTEM (PRIOR TO TEST \$ BALANCE) AND SUBMIT ANY

REPAIR/REPLACEMENT RECOMMENDATIONS TO THE ENGINEER. TEST AND BALANCE REPORT SHALL INCLUDE EXISTING DIFFUSERS WITH TAGS SHOWING EXISTING AIRFLOW READINGS. M. INSULATION

> MUST BE DRY AND IN GOOD CONDITION. WET OR DAMAGED INSULATION WILL NOT BE ACCEPTABLE. NO INSULATION SHALL BE APPLIED PRIOR TO PRESSURE TEST COMPLETION OF THE RESPECTIVE PIPING SYSTEMS. INSTALLATION SHALL BE CONTINUOUS. FIBERGLASS PIPE INSULATION SHALL BE INSTALLED WITH JOINTS BUTTED FIRMLY

ALL INSULATION SHALL BE INSTALLED OVER CLEAN DRY SURFACES. INSULATION

TOGETHER. JACKET LAPS TO BE SEALED WITH FACTORY APPLIED ADHESIVE. BUTT JOINTS TO BE SEALED WITH BUTT STRIPS, HAVING FACTORY APPLIED ADHESIVE VALVES AND FITTINGS SHALL BE INSULATED USING MITERED SECTIONS OF INSULATION, INSULATION CEMENT, OR PRE-MOLDED FITTING INSULATION. THE INSULATION APPLIED TO THE VALVES, FITTINGS AND THROUGH HANGERS SHALL BE COVERED WITH THE SAME TYPE OF COVERING AS USED ON THE PIPE INSULATION. PIPE SHIELDS TO BE PROVIDED AT ALL SUPPORTS.

PROVIDE THE FOLLOWING INSULATION PRODUCTS AS MANUFACTURED BY OWENS-CORNING. INSULATION PRODUCTS AS MANUFACTURED BY ARMSTRONG, CERTAINTEED OR KNAUF ARE ACCEPTABLE. ADHESIYE SHALL BE BENJAMIN FOSTER OR EQUAL.

SUPPLY AND OUTSIDE AIR DUCT SHALL BE MINIMUM R=6.0 OR R=8.0 WHEN INSTALLED IN UNCONDITIONED SPACE. RETURN AIR SHALL BE INSULATED WHEN INSTALLED IN UNCONDITIONED SPACES, OR AS NOTED. EXHAUST DUCT SHALL BE INSULATED WHERE NOTED.

5.1. DOMESTIC HOT WATER: I" THICK ASJ/SSL FIBERGLASS FOR PIPE SIZES 1-1/4" OR SMALLER, 1-1/2" THICK ASJ/SSL FIBERGLASS FOR PIPE SIZES 1-1/2" ♥ GREATER. DOMESTIC COLD WATER: 1" THICK ASJ/SSL FIBERGLASS.

5.3. SUPPLY DUCT: 2" MINIMUM THICK DUCT WRAP. 5.4. REFRIGERANT PIPING: 1" THICK ASJ/SSL FIBERGLASS. 5.5. ALL INSULATION SHALL MEET 25/50 FLAME AND SMOKE SPREAD RATING FOR

PLENUM APPLICATIONS. 6. EXISTING \$ NEW PVC OR NON-COMPLIANT PLENUM RATED MATERIALS SHALL BE WRAPPED WITH 3M FIRE BARRIER OR EQUIVALENT PRODUCT OR CONSTRUCTED WITH PLENUM COMPLIANT MATERIALS.

N. DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN COMPLIANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS (2005 ED. OR

NEW DUCTWORK SHALL BE CONSTRUCTED OF GALYANIZED SHEET METAL AND INSTALLED AS SHOWN ON THE DRAWINGS. ALL SHEETMETAL DUCT

JOINTS \$ SEAMS (MINIMUM SEAL CLASS B) SHALL BE SEALED WITH TAPES

DUCT SIZES INDICATED ON PLANS ARE FREE INSIDE CLEAR DIMENSIONS UNLESS OTHERWISE NOTED

AND MASTICS AS LISTED IN UL STANDARDS 181A AND 181B.

LEAKAGE RATE ALLOWANCE SHALL BE THE LESSER OF SMACNA CLASS B LEAKAGE CALCULATION OR 5% OF SYSTEM CFM.

5. LOW PRESSURE FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6' IN LENGTH. FLEXIBLE DUCTS SHALL BE INSTALLED IN A FULLY EXTENDED CONDITION FREE OF SAGS AND KINKS, USING ONLY THE MINIMUM LENGTH REQUIRED TO MAKE THE CONNECTION. FLEXIBLE DUCT SHALL BE LISTED AS A CLASS I AIR DUCT AND SHALL COMPLY WITH UL STANDARD 181, NFPA 90A \$ B. DUCT SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25, A MAXIMUM SMOKI RATING OF 50, SHALL BE RATED FOR POSITIVE PRESSURE OF 10"(W.C.) AND NEGATIVE PRESSURE OF 1/2"(W.G.). INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4" PCF DENSITY FIBERGLASS WITH A MINIMUM VALUE OF R=6.0. FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M,

EXISTING FLEXIBLE DUCT: REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPES LISTED AND LABELED TO UL 181B. IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT OR TREAT AS A

ELBOWS 45 DEGREES \$ GREATER IN ALL DUCT SYSTEMS MUST BE EITHER FULL-RADIUS OR MITERED WITH TURNING VANES. INSTALL TURNING YANES FOR ALL RECTANGULAR MITERED ELBOWS. 1.2. FOR DUCTS WITH VELOCITIES LESS THAN 2,200 FPM PROVIDE SINGLE WALL

1.3. FOR DUCTS WITH VELOCITIES GREATER THAN 2,200 FPM PROVIDE DOUBLE

FIRE DAMPERS IN DUCTWORK SHALL BE TYPE 'B' STYLE WITH SHUTTER OUTSIDE OF AIRSTREAM.

O. MATERIALS

PIPE AND FITTINGS DOMESTIC WATER - TYPE "L" HARD COPPER. CONDENSATE PIPING - TYPE "M" OR DWY COPPER TUBING, NO-HUB CAST IRON,

OR PYC (EXCEPT IN RETURN AIR PLENUMS). WASTE \$ VENT PIPING (ABOVE GROUND INTERIOR) NO-HUB CAST IRON. BUILDING SEWERS \$ DRAINS (UNDERGROUND) SANITARY SEWERS SHALL BE SERVICE WEIGHT

REFRIGERANT PIPING - SEAMLESS COPPER TUBE, HARD DRAWN, ASTM B15, TYPE K OR L B88. FITTINGS SHALL BE WROUGHT COPPER OR WROUGHT BRONZE WITH SILVER SOLDER.

CAST IRON, BELL \$ SPIGOT, SOIL PIPE WITH TYLER "TY-SEAL" NEOPRENE PIPE

GAS PIPING INTENDED FOR OPERATION AT PRESSURES OF 5 PSIG OR GREATER SHALL BE ASTM A53, SCHEDULE 40, BLACK STEEL JOINED BY SCHEDULE 40, BLACK WELDING FITTINGS. GAS PIPING INTENDED FOR OPERATION AT PRESSURES LESS THAN 5 PSIG SHALL BE ASTM A53, SCHEDULE 40, BLACK STEEL JOINED BY SCHEDULE 40, BLACK WELDED FITTINGS OR CLASS 150 POUNDS, BANDED, BLACK 1ALLEABLE IRON, THREADED FITTINGS. PAINT PIPING SAFETY YELLOW, OR AS LANDLORD REQUIRES.

COMPRESSED AIR PIPING TO BE TYPE "K" COPPER PIPING. MOTOR OIL PIPING TO BE HYDRAULIC STEEL TUBING ASTM A53.

P. WASTE SYSTEMS

RUN ALL DRAINAGE PIPING AS DIRECT AS POSSIBLE. ACTUAL LOCATION OF DRAINS AND WASTE PIPING SHALL MEET THE VARIOUS BUILDING CONDITIONS. DO ANY WORK NECESSARY TO CONCEAL PIPING OR CLEAR PIPING OF OTHER TRADES.

HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER.

WASTE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT FOR PIPE SIZES 2-1/2" OR LEGG, 1/8" PER FOOT FOR PIPE GIZEG 3" TO 6" AND 1/16" PER FOOT FOR PIPE GIZEG 8" OR GREATER.

4. CONDENSATE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT.

Q. PIPING HANGER SPACING

INSTALL HANGERS AND SUPPORTS IN PIPING SYSTEMS TO REMOVE STRESS FROM SYSTEM. SPACE HANGERS AND SUPPORTS PER THE FOLLOWING TABLES: 1.1. COPPER PIPE: 1-1/4" OR 9MALLER - 6' MAXIMUM 9PACING \$ 1-1/2" OR LARGER - 10' MAXIMUM SPACING 1.2.CAST IRON PIPE: ALL SIZES - 5' MAXIMUM SPACING (SPACING OF 10' MAY BE USED WHEN

10' PIPE LENGTH ARE UTILIZED. 1.3. PVC PIPE: ALL SIZES - 4' MAXIMUM SPACING 1.4. CPVC PIPE: 1" OR SMALLER - 3" MAXIMUM SPACING \$ 1-1/4" OR LARGER - 4" MAXIMUM SPACING

R. VALVES

VALVES IN WATER PIPING: BALL VALVES WITH SCREWED ENDS, MIN. 150 LBS., SWP. VALVES USED FOR SHUT-OFF AND BALANCING SHALL BE EQUIPPED

WITH MEMORY STOP. S. WIRING

ALL WIRING INCIDENTAL TO THIS TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

THE TERM "WIRING" SHALL BE CONSTRUED TO INCLUDE FURNISHING OF WIRE, CONDUIT, MISCELLANEOUS MATERIALS AND LABOR AS REQUIRED FOR MOUNTING AND CONNECTING ELECTRICAL CONTROL DEVICES, AND CONNECTING ELECTRICAL DEVICES, AND PROVIDING ELECTRICAL INTERLOCKS BETWEEN EQUIPMENT.

FOR ALTERNATE EQUIPMENT.

SEE SCHEDULES ON DRAWING. THE BASIS OF DESIGN INDICATED ON ALL SCHEDULES CONTAINED ON THESE DRAWINGS INDICATES MINIMUM QUALITY AND CONSTRUCTION STANDARDS. ALTERNATE MANUFACTURERS EQUIPMENT MAY BE USED SO LONG AS THE

WHERE A PRODUCT IS SUBSTITUTED FOR A "BASIS OF DESIGN" PRODUCT, THE CONTRACTOR SHALL NOTIFY THE DESIGN TEAM THAT CHANGES IN PROJECT MAY BE MANDATORY IN ORDER TO PERMIT THE USE AND THE INSTALLATION OF THE SUBSTITUTED PRODUCT. SHOP DRAWING SUBMITTALS FOR A SUBSTITUTE PRODUCT SHALL INCLUDE A COMPLETE SCHEDULE OF CHANGES IN PROJECT DESIGN, IF ANY, WHICH MUST BE MADE IN ORDER TO PERMIT USE AND INSTALLATION OF THE SUBSTITUTED PRODUCT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES FOR USE OF THE SUBSTITUTED PRODUCT. THE CONTRACTOR SHALL BEAR ALL EXPENSES RELATED TO THE USE OF A SUBSTITUTE

2. UPDATE THE GRAPHICS FOR FRONT END OF THE BUILDING AUTOMATION SYSTEM.

EQUIPMENT / DEVICE MEETS OR EXCEEDS THE QUALITY OF THE BASIS OF DESIGN.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SPACE REQUIREMENTS

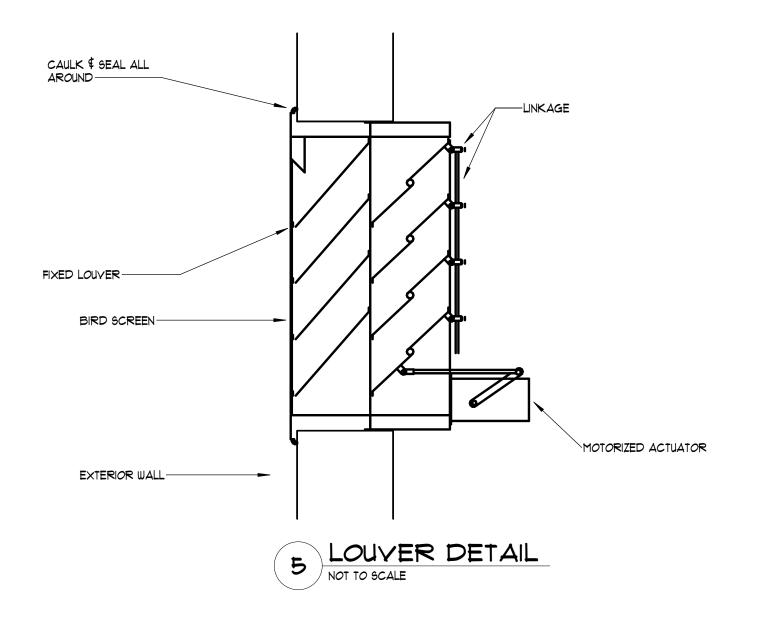
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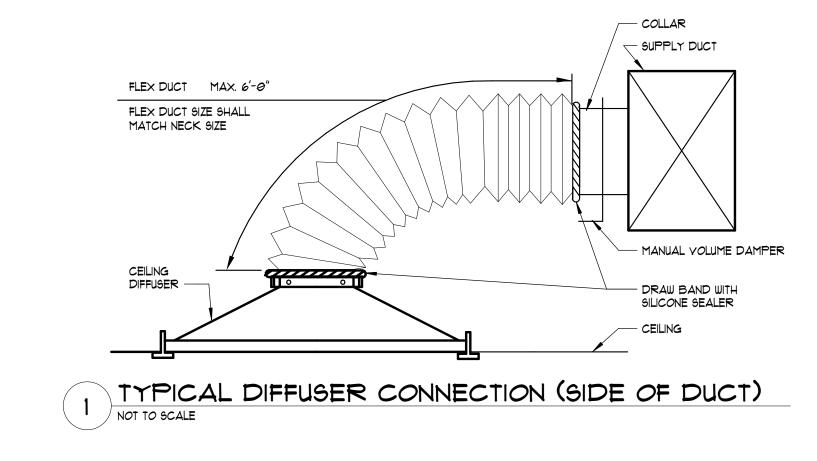
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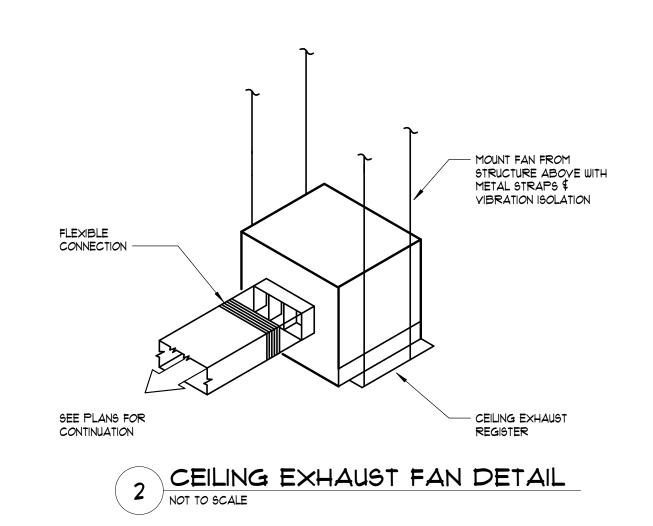
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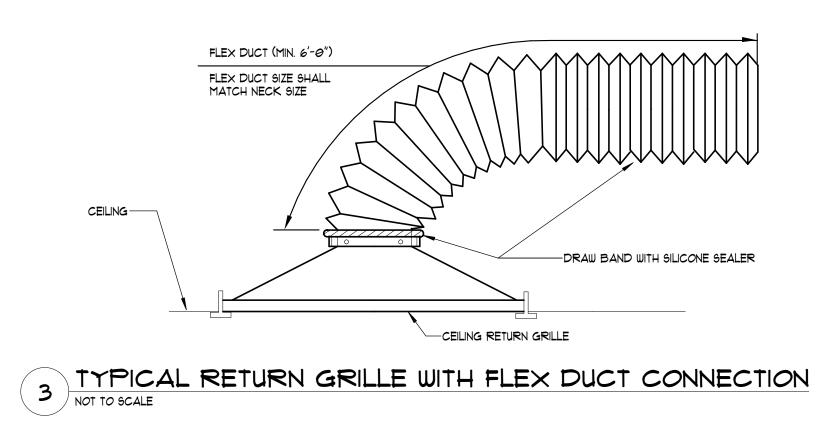
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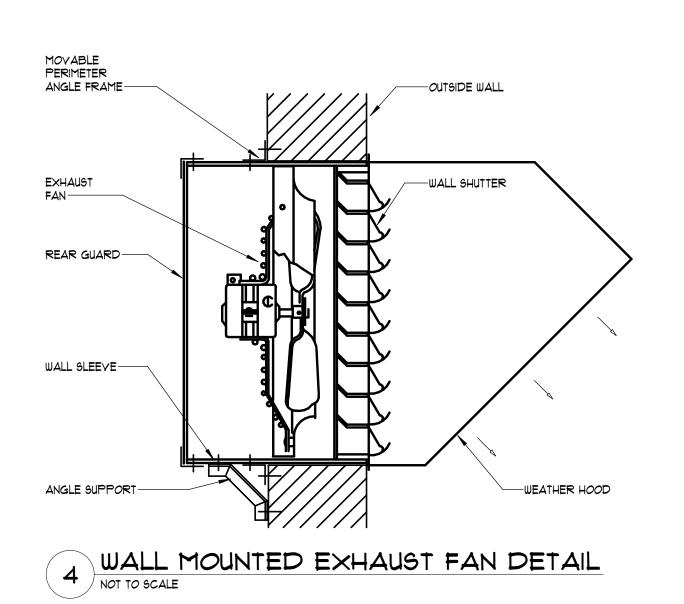
SPECIFICATIONS

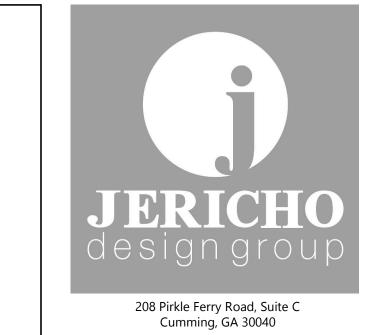


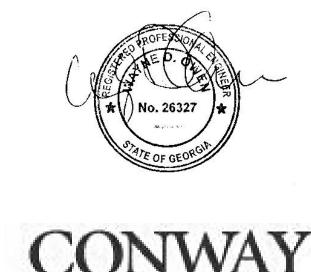










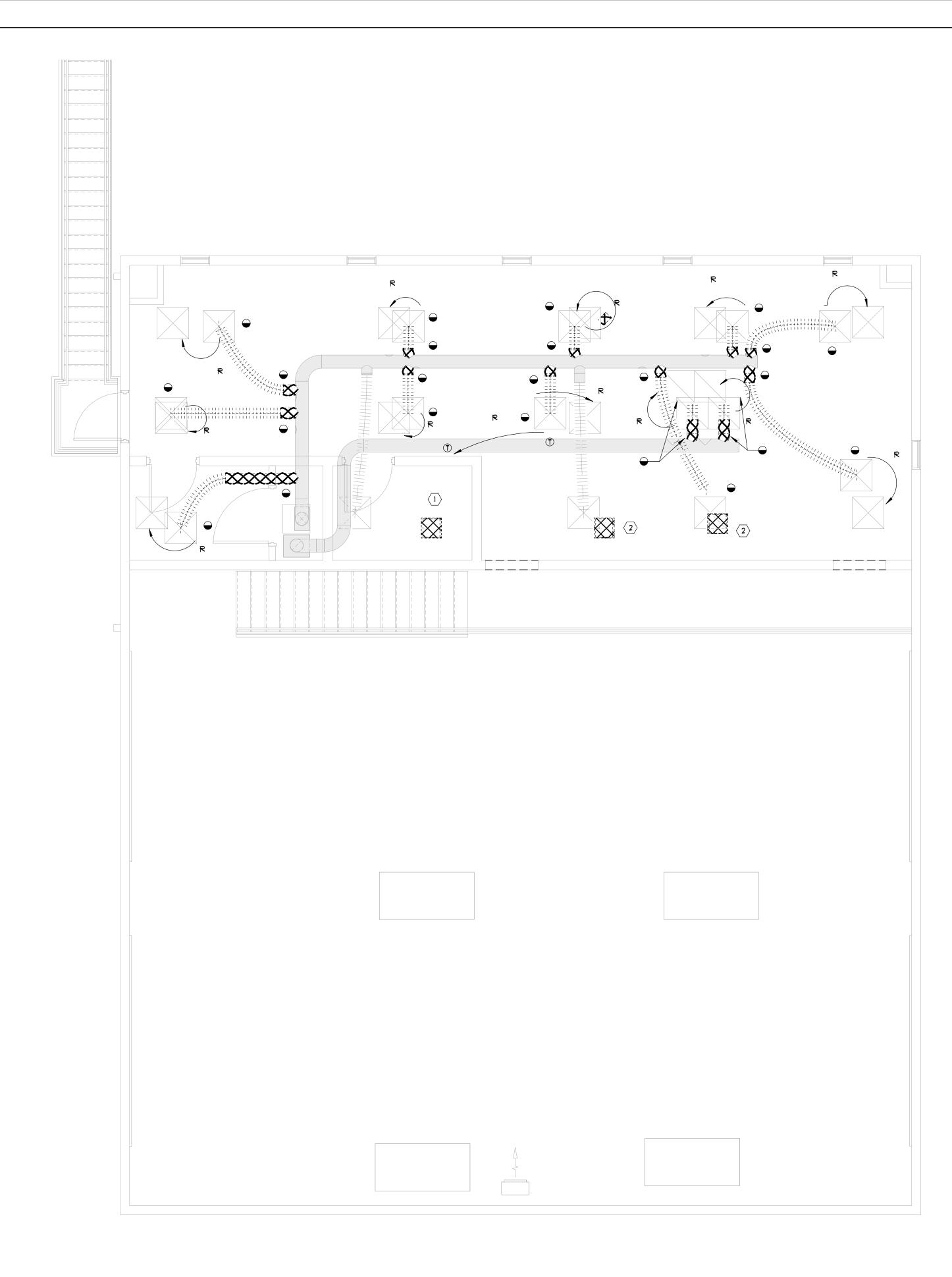


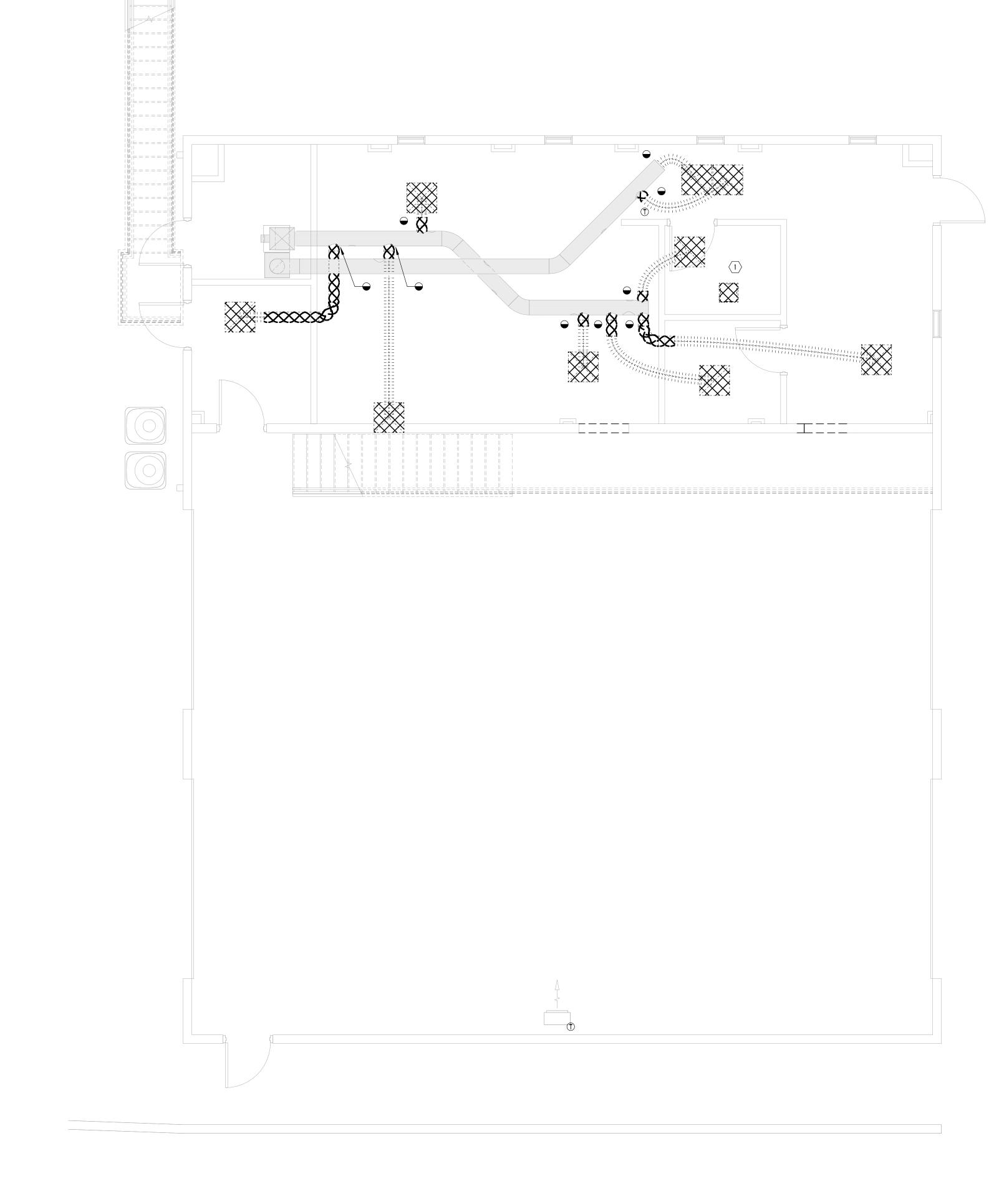
15 RENOVATIONS

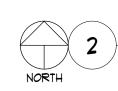
PRINT RECORD No. DATE DESCRIPTION Drawn By Checked By **Date** 08/01/2025 **Job No.** 25092 Sheet Title DETAILS - HVAC

Sheet No.

M-0.03







SECOND FLOOR DEMOLITION PLAN - HYAC

GENERAL NOTES:

- DUCTWORK AT LIMITS OF DEMOLITION SHALL BE CAPPED, SEALED AND INSULATED WITH MATERIALS OF LIKE KIND AND THICKNESS. CONTRACTOR HAS OPTION TO RE-USE EXISTING TAPS AT THEIR DISCRETION. - PRIOR TO ANY DEMOLITION CONTRACTOR TO INSPECT EACH
THERMOSTAT TO DETERMINE THE ZONE OR SYSTEM CONTROLLED BY THE
THERMOSTAT AND PROVIDE THERMOSTAT LABELS
- CONTRACTOR TO CAREFULLY REMOVE THERMOSTATS LOCATED ON
WALLS TO BE DEMOLISHED PRIOR TO DEMOLITION AND THERMOSTATS TO
BE RELOCATED. ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED.

ITEMS UNDERNEATH HATCHING OUT OF SCOPE.

KEY NOTES:

 $\langle 1
angle$ existing exhaust fan to be demolished. Associated ductwork to remain for re-connection. $\overline{2}$ Existing exhaust fan and associated ductwork to be demolished back to mains and capped.

FIRST FLOOR DEMOLITION PLAN - HYAC - DUCTWORK AT LIMITS OF DEMOLITION SHALL BE CAPPED, SEALED AND INSULATED WITH MATERIALS OF LIKE KIND AND THICKNESS. CONTRACTOR HAS OPTION TO RE-USE EXISTING TAPS AT THEIR DISCRETION.

ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED. ITEMS UNDERNEATH HATCHING OUT OF SCOPE.

 $\overline{1}$ Existing exhaust fan to be demolished. Associated ductwork to remain for re-connection.

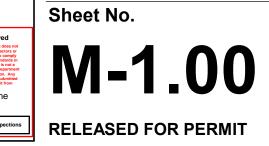


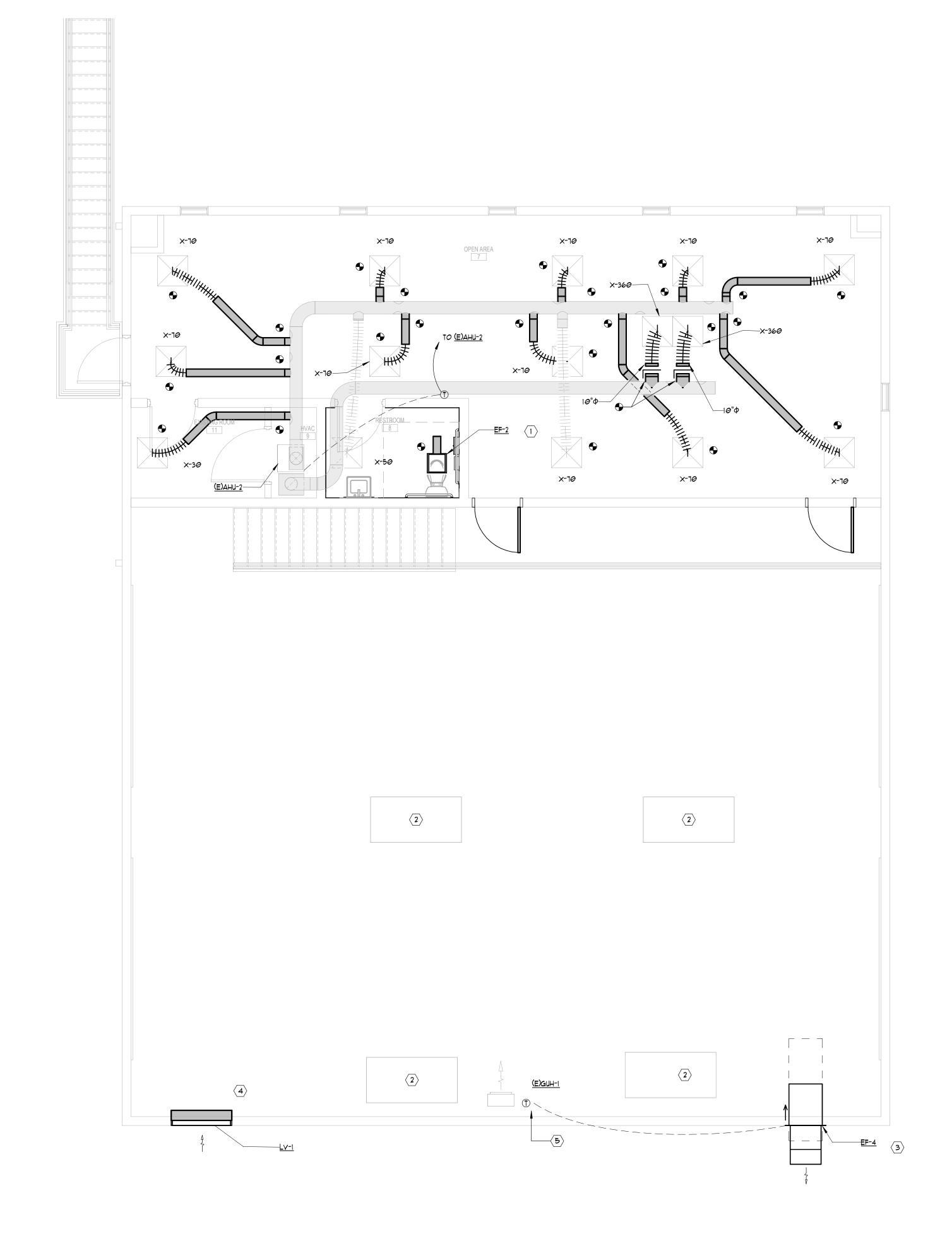


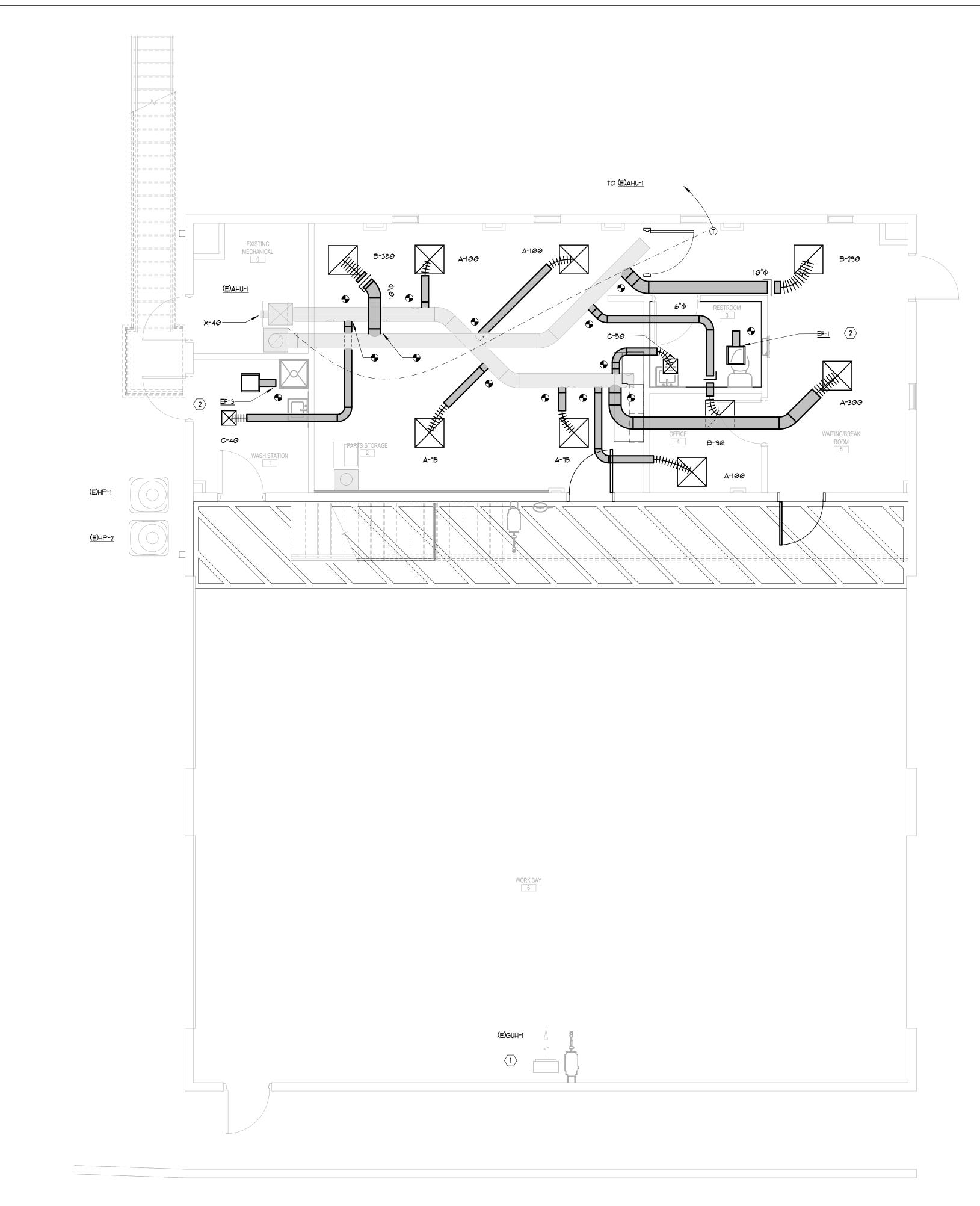
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DEMOLITION PLANS -HVAC









KEY NOTES:

- 1 EF-2 TO BE TIED INTO EXISTING EXHAUST DUCTWORK. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF RE-CONNECTION.
- $\stackrel{\textstyle igg(2)}{}$ Existing air filtration units to remain. Repair/Replace as needed to bring to full operation.
- \bigcirc 3 EF-4 TO BE PLACED ON EXTERIOR WALL AT A MINIMUM ELEVATION OF 19' AFF.
- 4 LV-1 to be interlocked with <u>EF-4</u>. When <u>EF-4</u> is on <u>LV-1</u> to be open. When <u>EF-4</u> is off <u>LV-1</u> to be closed.
- $raket{5}$ <u>EF-4</u> TO BE CONTROLLED BY THERMOSTAT MOUNTED ON COLUMN



CONTRACTOR TO REPAIR/REPLACE GAS UNIT HEATER AS NEEDED TO BRING TO FULL
OPERATION.

OR REPLACEMENT OF UNIT HEATER WILL
REQUIRE INSPECTION—SMW

REQUIRE INSPECTION~SMW $\stackrel{\textstyle igg(2)}{}$ EXHAUST FAN TO BE TIED INTO EXISTING EXHAUST DUCTWORK. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF RE-CONNECTION.

BE ADVISED ANY CHANGES TO GAS PIPING

208 Pirkle Ferry Road, Suite C Cumming, GA 30040



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FLOOR PLANS -HVAC

Sheet No.

STRING ABDRY			LEGEND - PLUMBING
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OU DOPEST COLD MATER		5 OR W	SANITARY OR WASTE ABOVE GROUND
HII DOMESTIC HOT WATER HOT WATER REPORTLATE		·	
HIR			
G NATLRAL GAS PENG			
O VTR SANTARY VENT THROUGH ROOF DO FO FLOOR DANN HO HIS DEAN HO CO CLEANOUT O FOO ROOM GLEANOUT O FOO ROOM GLEANOUT NELH NON PREEZE WALL HYDRANT HO DE SEV BALL VALVE SE BALL VALVE O WHA WATER HAMMER ARRESTOR (PD IS SIZE) BP BACKCOUR PREVIOUR ASSEMBLY REFI REPUEDED PRESSURE ZONE (SPP) PRV PRESSURE REDUCKS VALVE PRV PRESSURE REDUCKS VALVE PRV PRESSURE REJUES VALVE PRV PRESSURE GAUGE WITH GAUGE COCK INCRN ELEVATON DESCRICTOR FLOW IN PPE CONNECT TO DESTINA WE REPUED PRESSUR CAUGE PRF BELOW PRISED CATON AND ARD AROVE RINSHED GRADE BPF BELOW PRISED ROOM PRV BOOM PRV BELOW BPF BELOW PRISED ROOM ARD AROVE CBUNG BPF BELOW PRISED ROOM PRV BROOM PROVED ROOM ARD AROVE CBUNG BPF BELOW FRANCE CONNECT TO DESTINA AROVE CBUNG BPF BELOW FRANCE DATON ARD AROVE CBUNG BPF BELOW FRANCE CONNECT TO DESTINA AROVE CBUNG BPF BELOW FRANCE PPR BELOW FRANCE BPF BELOW FRAN			
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CFH CUBIC FEET PER HOUR IN INCH CD CONDENSATE		НP	HORSE POWER
IN INCH CD CONDENSATE		GAL	GALLON
CD CONDENSATE		CFH	CUBIC FEET PER HOUR
		IN	INCH
CA COMPRESSED AIR		CD	CONDENSATE
		CA	COMPRESSED AIR
O OIL		0	OIL

			F	PLUMBIN	IG FIXT	URE SC	HEDULE
	TAG	FIXTURE	cw	HW	WASTE	YENT	SPECIFICATION
	<u>wc-1</u>	WATER CLOSET - WALL MTD.	3/4"	N/A	4"	2"	KOHLER K-3999 (1.28 GPF) W/ BEMIS 1655CT SEAT, ROUGH TANK COMPLETE W/ COUPLING COMPONENTS, FLOOR MOUNTED
>	L <u>V-1</u>	LAVATORY - WALL MOUNTED	1/2"	1/2"	2"	1-1/2"	KOHLER K-1728 WALL MOUNTED LAYATORY W/ MOEN 8422F05 (0.5 GPM) FAUCET, GRID STRAINER 1-1/4" X 1-1/2" P-TRAP, INSULATION KIT, SUPPLY STOPS \$ WALL MOUNTED CARRIER W/ FLOOR MOUNTED UPRIGHTS.
_	<u> </u>	SINGLE COMP. SINK	1/2"	1/2"	2"	1 1/2"	ELKAY STAINLESS STEEL SINK LRAD2213, MOEN 8792 DECK MTD. FAUCET, W/ 4" CENTERS AND SPRAYER. PROVIDE P-TRAP, TAILPIECE AND WATER STOPS.
7	<u>6K-2</u>	DOUBLE COMP. SINK - BREAK ROOM	1/2"	1/2"	2"	1-1/2"	ELKAY STAINLESS STEEL SINK LRAD3319, MOEN 8793 (I.5 GPM) DECK MTD. FAUCET, W/ 4" CENTERS AND SPRAYER. PROVIDE P-TRAP, TAILPIECE, AND WATER STOPS.
\	9K-1	HAND SINK	1/2"	1/2"	2"	1-1/2"	ELKAY STAINLESS STEEL SINK LRADISIG, MOEN 8278 DECK MTD., W/ 4" CENTERS (0.5 GPM), MOEN 52601 AERATOR. PROVIDE P-TRAP, TAILPIECE \$ WATER STOPS.
<u></u>	<u>DF-1</u>	DRINKING FOUNTAIN - ADA	1/2"	N/A	2"	1-1/2"	ELKAY LZWSGRN8K WALL MOUNTED BOTTLE FILLING STATION PROVIDE 1-1/4" P-TRAP AND SUPPLY STOPS W/ ELECTRIC WATER COOLER. PROVIDE ADA COMPLIANT INSTALLATION.
	<u>MS-I</u>	MOP SINK	1/2"	1/2"	3"	1-1/2"	WILLIAMS SB-902 RECEPTOR W/ MOEN 8124 VACUUM BREAK FAUCET, TILING FLANGE, \$ SPLASH CATCHER PANELS
	<u>EW-1</u>	EYE WASH	1/2"	1/2"	N/A	N/A	GUARDIAN: GI8414P EYE/FACE WASH, WALL MOUNTED, HAND W/ PLASTIC BOWL W/ G3600LF THERMOSTATIC MIXING VALVE, MIXING VALVE COMPLY WITH ASSE 10711. 2018 IPC 411.3. ANSI Z358.1-2014 COMPLIANT INSTALLATION. SET EYEWASH TEMP TO 85°F
	<u>₩B-I</u>	WATER CONNECTION BOX	1/2"	N/A	N/A	N/A	OATEY 39140 ICE MAKER BOX. 1/4 TURN BRASS HAMMER BALL VALVE, WATER HAMMER ARRESTOR, LOW LEAD, COPPER SWEAT. PROVIDE BACK FLOW PREVENTION.
	<u>FD</u>	FLOOR DRAIN	N/A	N/A	3"	N/A	JR SMITH 2000 WITH 6" TYPE B SQUARE ADJUSTABLE STRAINER WITH SATIN NICKEL BRONZE FINISH. PROVIDE WITH VANDAL PROOF SECURED TOP AND TRAP PRIMER
	<u>HR-1</u>	COMPRESSED AIR HOSE REEL	N/A	N/A	N/A	N/A	LINCOLN SPRING RETURN HOSE REEL MFR MODEL: 83753 FOR COMPRESSED AIR. INCLUDES 50 FT. 1/2" HOSE. WALL MOUNTED.
	HR-2	WATER HOSE REEL	3/4"	N/A	N/A	N/A	SEALEY WHRI512 SPRING RETURN HOSE REEL
	HR-3	OIL HOSE REEL	N/A	N/A	N/A	N/A	REELCRAFT SPRING RETURN HOSE REEL

TAG	LOCATION	CAPACITY	PRESSURE	ELECTRICAL DATA						
		(GAL)	(P9I)	SCFM	HP	VOLTAGE	PHASE	TANK ORIENTATION	BASIS OF DESIGN	NOTES
AC-I	ON GRADE	60	175	14	5	230	1	VERTICAL TANK	INGERSOLL RAND: 2340L5	1 2

SHEET LIST PLUMBING				
SHEET NUMBER	SHEET NAME			
P0.01	LEGENDS \$ SCHEDULES - PLUMBING			
PØ.02	DETAILS - PLUMBING			
P1.00	DEMOLITION PLAN - PLUMBING			
PI.01	FLOOR PLANS - DOMESTIC WATER, COMPRESSED AIR, \$ OIL			
P1.02	FLOOR PLANS - SANITARY AND VENT			
P1.03	ISOMETRIC VIEW - SANITARY \$ VENT			

PLUMBING NOTES: SEE SHEET M-0.02 FOR PLUMBING GENERAL NOTES.

PLUMBING STANDARD NOTES: - ALL BACKFLOWS ARE TO BE TESTED, AND RESULTS SENT TO CROSS CONNECTION SPECIALIST AT FORSYTH COUNTY WATER AND SEWER.
- CONTACT MICHAEL BURGESS AT (110)-205-4559 WHEN RPZ BACKFLOWS ARE INSTALLED AND READY FOR INSPECTION

- IF PLUMBING INSPECTOR REQUIRES INTERNAL DEVICE
(RPI OR DOUBLE CHECK), DEVICE MUST BE EASILY
ACCESSIBLE: NO HIGHER THAN 1'

- NO CONDENSATE ALLOWED IN SANITARY SEWER.

208 Pirkle Ferry Road, Suite C Cumming, GA 30040



RENOVATIONS STATION

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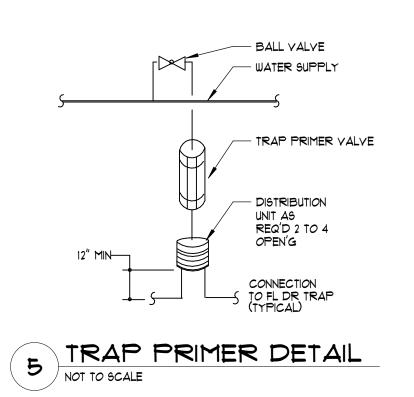
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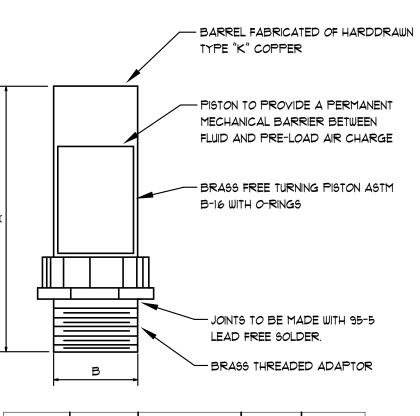
Date 08/01/2025 **Job No.** 25092 Sheet Title

LEGENDS & SCHEDULES -PLUMBING

Sheet No.

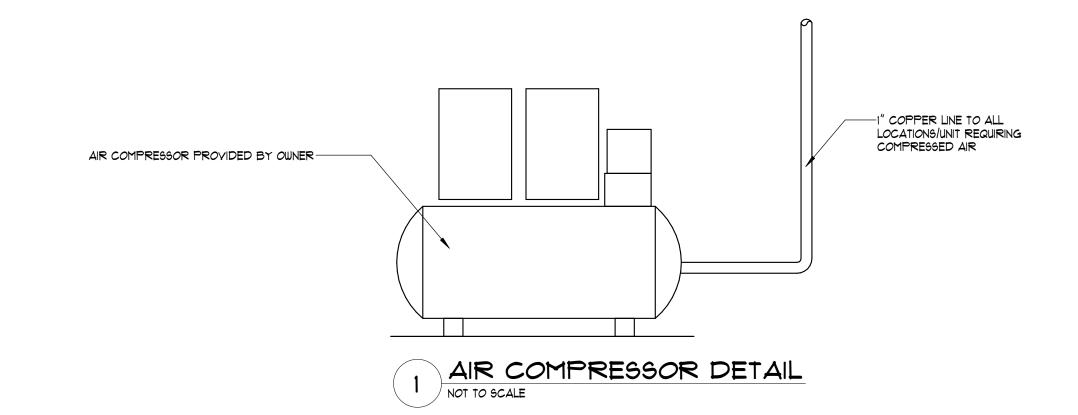


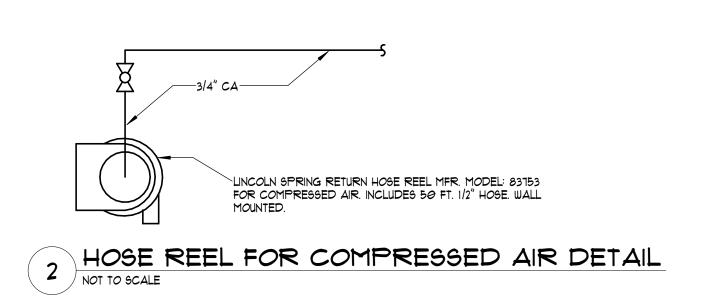


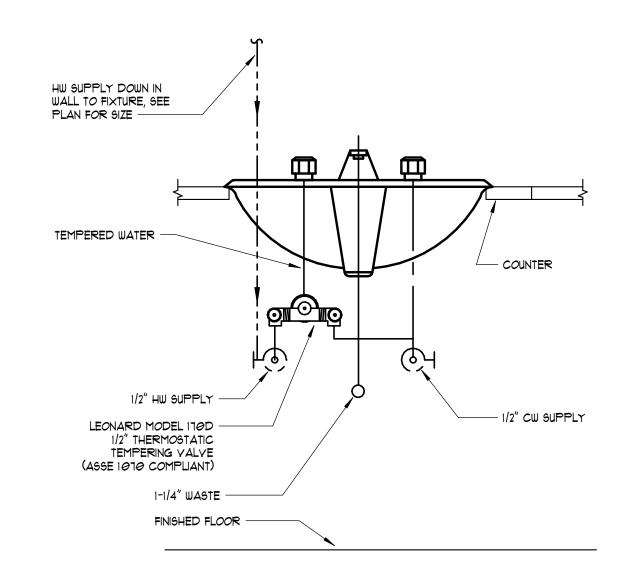


PPP SIZE	P.D.I. SYMB <i>O</i> L	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	А	1 - 11	5"	1/2"
3/4"	m	12 - 32	5"	3/4"
1"	v	33 - 60	٦"	1"
1-1/4"	Δ	61 - 113	7"	1-1/4"
1-1/2"	ш	114 - 154	å	1-1/2"
2"	F	155 - 330	9"	2"
SUPPLY BRANCH	THAT CONTA	RBERS TO BE LOCA AINS A FAST-ACTING ICE MAKER, WASHI	S VALVE (F	LUSH

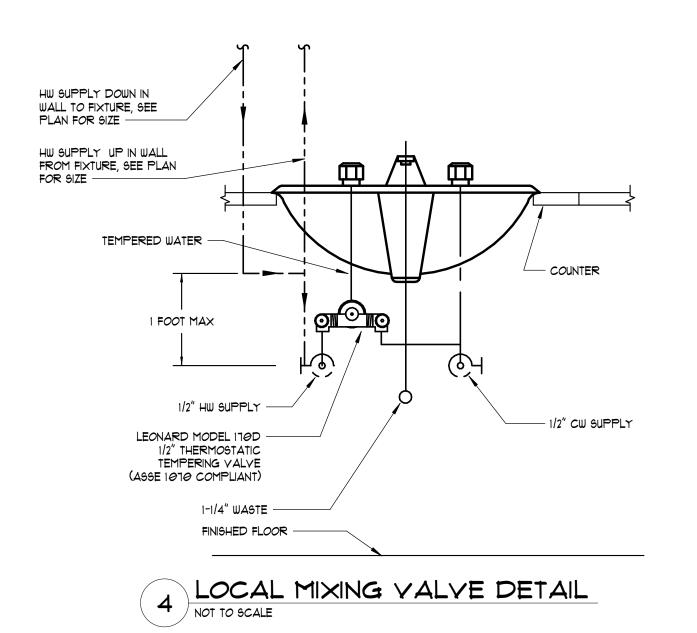
WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE







3 LOCAL MIXING VALVE DETAIL - NO LOOP







CONWAY & OWEN

FOCO FIRE STATION 15 RENOVATIONS
FORSYTH COUNTY

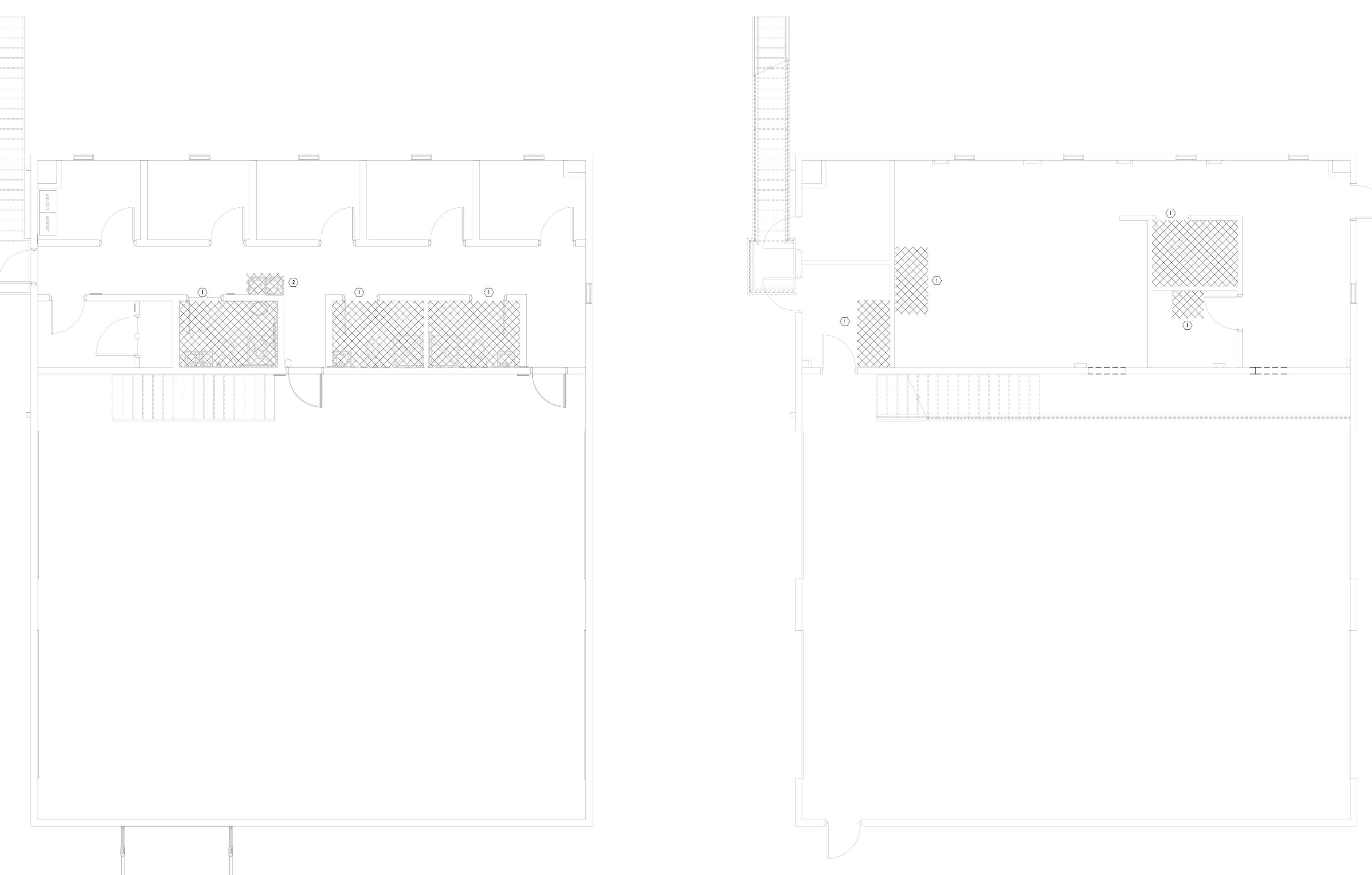
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Drawn By	Checked By
BS	КВ
Date	Job No.
08/01/2025	25092
Sheet Title	

Forsyth County Reviewed

By reviewing the plans for Code Compliance, it does not relieve the conver, design professionals, contractors or with all local, state and national codes and standards in effect at time of permit issuance. Our review is not a check of every term and does not prevent life digenterest changesalterations to these plans shall be resulmitted for review and approval to prevent the permit from Sonya M. Whetstone 09/08/2025

Final Approval Subject to Field Inspections

P0.02



SECOND FLOOR DEMOLITION PLAN - PLUMBING

1/4" = 1'-0"

GENERAL MATERIAL MAT

GENERAL NOTES:

- PIPING AT LIMITS OF DEMOLITION SHALL BE CAPPED, SEALED AND INSULATED WITH MATERIALS OF LIKE KIND AND THICKNESS.

ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED.

ITEMS UNDERNEATH HATCHING OUT OF SCOPE.

KEY NOTES:

 $\fbox{1}$ Existing Plumbing fixtures and associated PiPing to be demolished back to main and capped.

 $\stackrel{\textstyle igg(2)}{}$ Existing Drinking fountain to be demolished. Associated PiPing to be demolished back to Main and capped.



GENERAL NOTES:

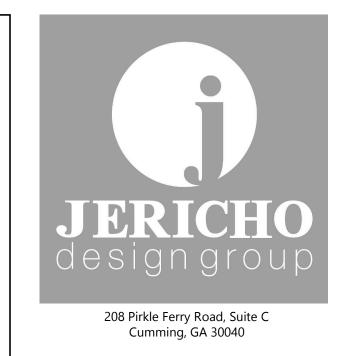
- PIPING AT LIMITS OF DEMOLITION SHALL BE CAPPED, SEALED AND INSULATED WITH MATERIALS OF LIKE KIND AND THICKNESS.

ITEMS UNDERNEATH HATCHING TO BE DEMOLISHED.

ITEMS UNDERNEATH HATCHING OUT OF SCOPE.

KEY NOTES:

EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. ASSOCIATED PIPING TO BE DEMOLISHED BACK TO MAINS AND CAPPED.







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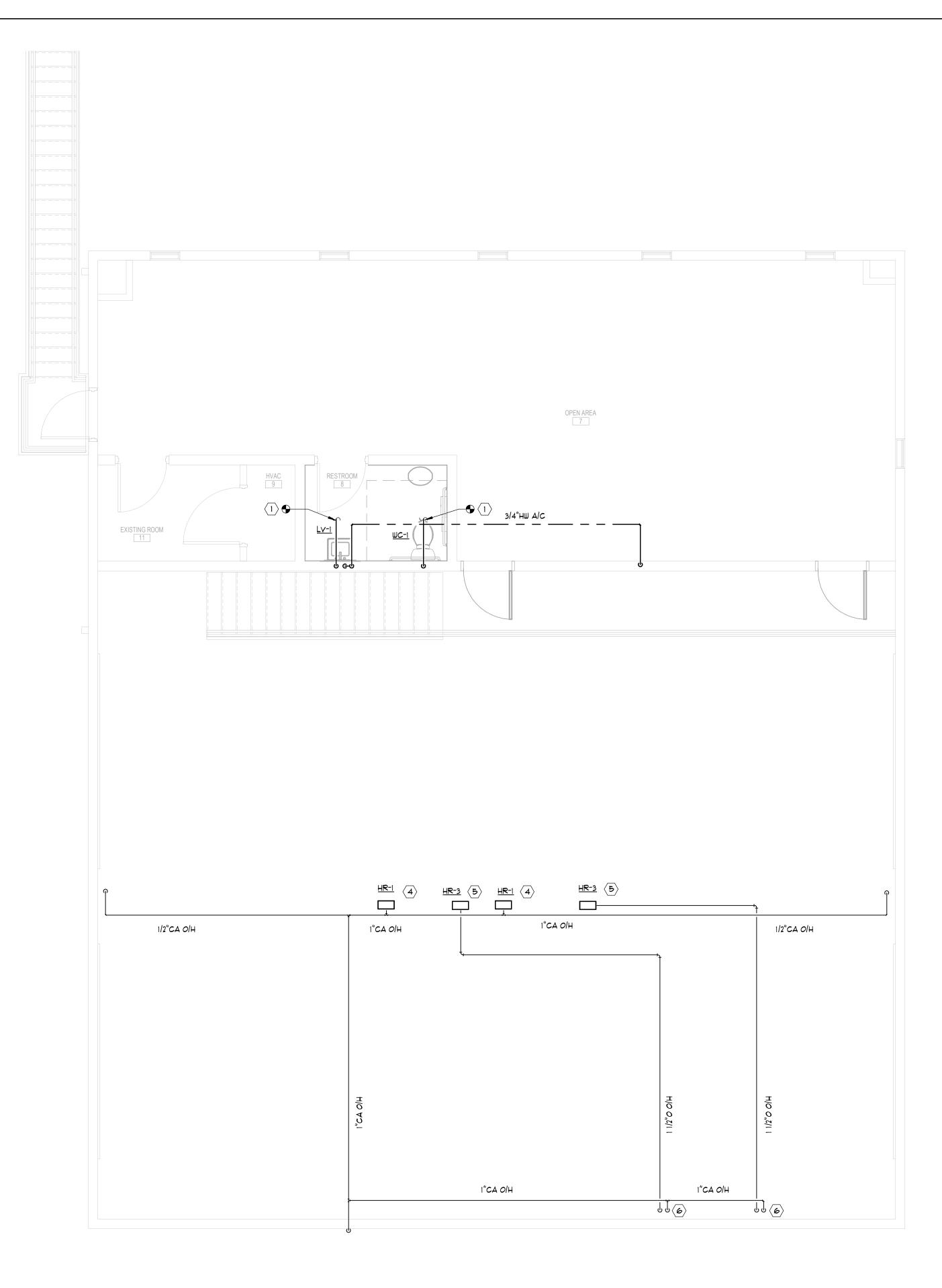
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KB

Date
08/01/2025
Sheet Title

DEMOLITION PLAN -PLUMBING



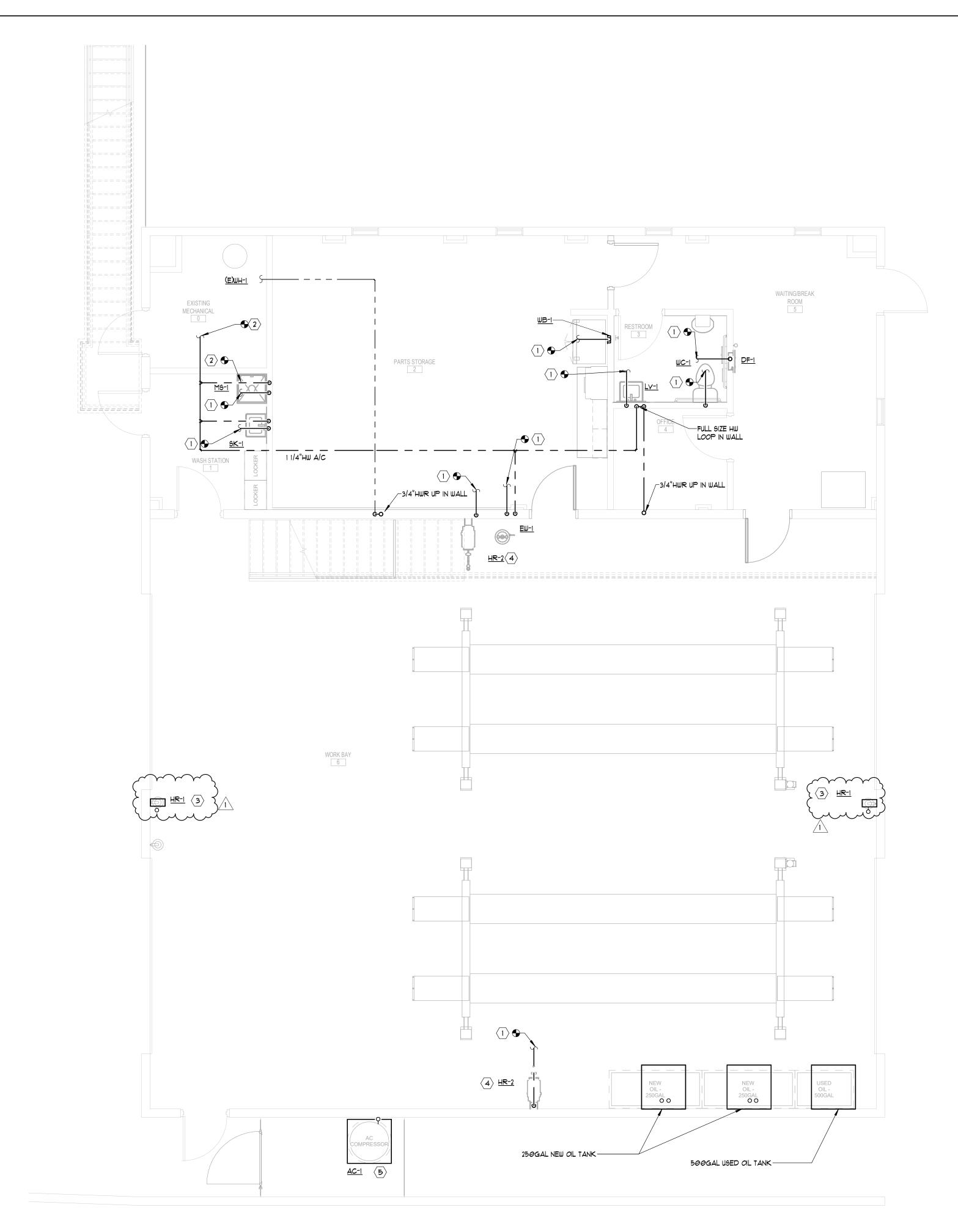


SECOND FLOOR PLAN - DOMESTIC WATER, COMPRESSED AIR, \$ OIL

1 TIE NEW 3/4"CW INTO EXISTING CW MAIN OF EQUAL SIZE OR LARGER.

2 TIE NEW 3/4"HW INTO EXISTING HW MAIN OF EQUAL SIZE OR LARGER. \langle 3angle tie New 1"CW into existing CW main of Equal size or larger.

 $\overline{\langle 4 \rangle}$ <u>HR-1</u> TO BE CEILING MOUNTED. TIE 1/2 CA INTO CEILING MOUNTED <u>HR-1</u> $\left\{\left\langle 5
ight
angle \, rac{1}{4R-3}
ight\}$ 0 BE CEILING MOUNTED. TIE 1-1/2"FO INTO CEILING MOUNTED HR-5 6 ROUTE 3/4"CA DOWN TO THE PUMP FOR OIL BARREL FOR AIR ACTUATION. PROVIDE SHUTOFF VALVE AT CONNECTION FOR OWNER FURNISHED AIR PUMP. COORDINATE EXACT HEIGHT AND LOCATION OF CONNECTION WITH OWNER.



FIRST FLOOR PLAN - DOMESTIC WATER, COMPRESSED AIR, \$ OIL

TIE NEW 3/4"CW INTO EXISTING CW MAIN OF EQUAL SIZE OR LARGER. 2 TIE NEW 1-1/4"HW INTO EXISTING HW MAIN OF EQUAL SIZE OR LARGER.

3 HR-1 TO BE WALL MOUNTED. ROUTE 1/2"CA DOWN ON WALL TO TIE INTO WALL MOUNTED HR-1. PROVIDE WITH SHUTOFF VALVE.

4 HR-2 TO BE WALL MOUNTED. ROUTE 3/4"CW DOWN ON WALL TO TIE INTO WALL MOUNTED HR-2. PROVIDE WITH SHUTOFF VALVE AND BFP

 $\langle \mathtt{5}
angle$ AIR COMPRESSOR PROVIDED BY OWNER.



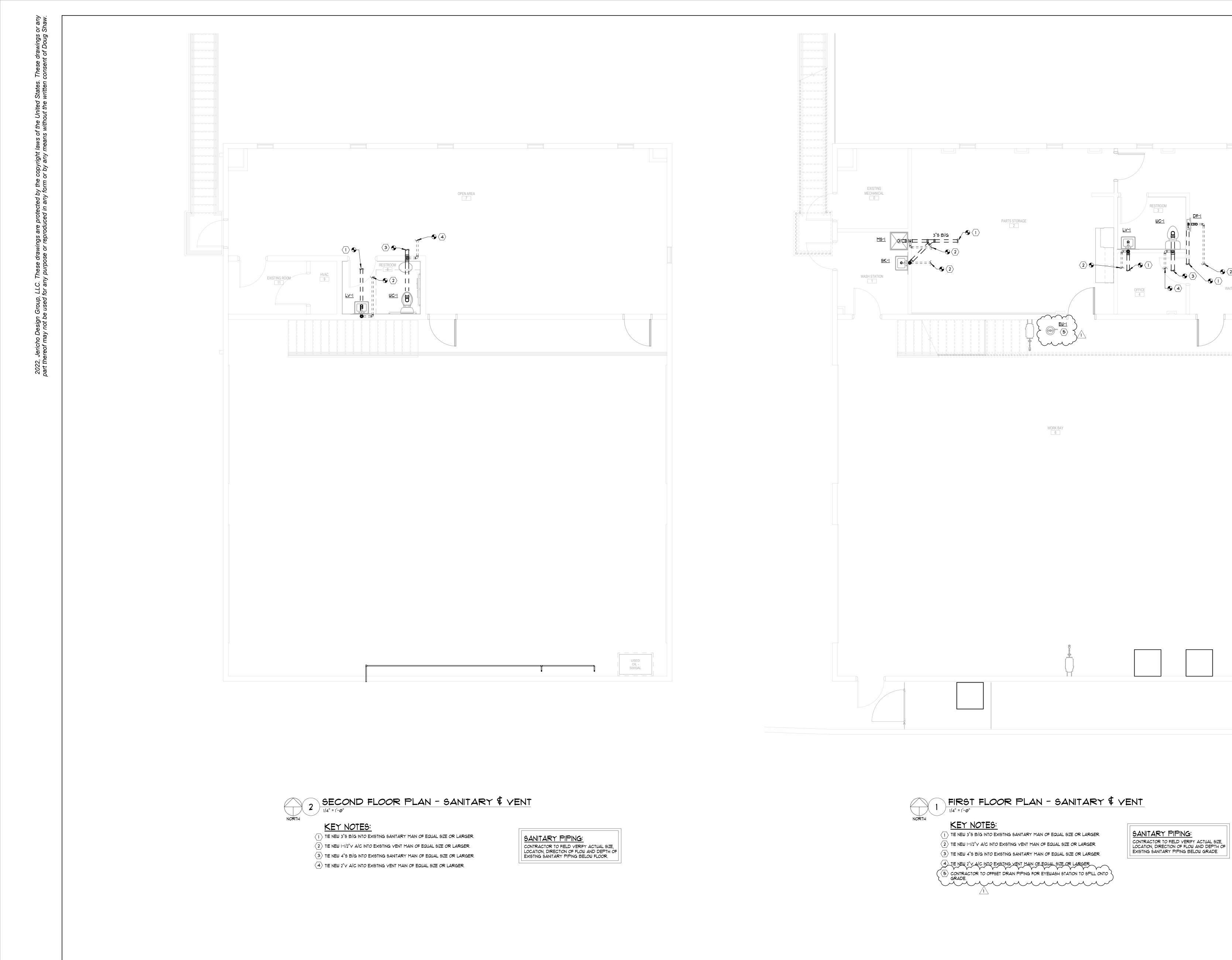


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Checked By Job No. Date 08/01/2025

Sheet Title FLOOR PLANS -DOMESTIC WATER, COMPRESSED AIR, & OIL_ Sheet No.

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CONWAY & OWEN

IRE STATION 15 RENOVATIONS

FORSYTE

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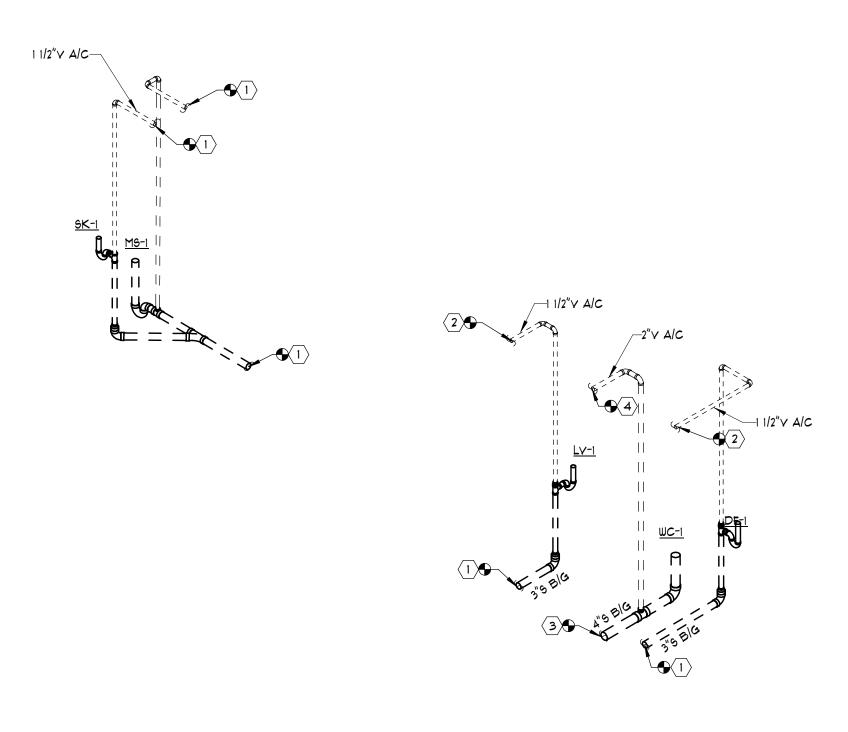
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Sheet Title
FLOOR PLANS SANITARY AND VENT

Sheet No.

Sheet No.

P1.02
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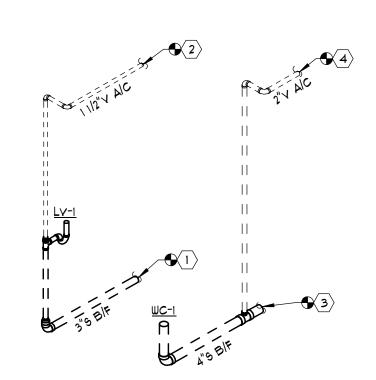


FIRST FLOOR ISOMETRIC VIEW - SANITARY \$ VENT

KEY NOTES:

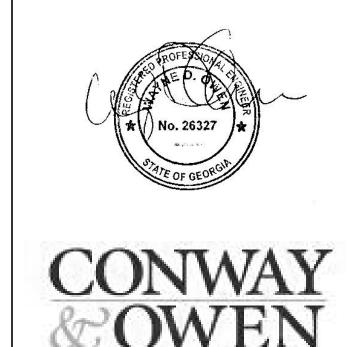
- TIE NEW 3"S B/G INTO EXISTING SANITARY MAIN OF EQUAL SIZE OR LARGER.
- 2 TIE NEW 1-1/2"V A/C INTO EXISTING VENT MAIN OF EQUAL SIZE OR LARGER.

 3 TIE NEW 4"S B/G INTO EXISTING SANITARY MAIN OF EQUAL SIZE OR LARGER.
- $\stackrel{\smile}{4}$ tie New 2" v A/C into existing vent main of equal size or larger.



SECOND FLOOR ISOMETRIC VIEW - SANITARY \$ VENT





JCO FIRE STATION 15 RENOVATIONS

FORSYTH COUNTY

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ISOMETRIC VIEW -SANITARY & VENT

Forsyth County Reviewed

By reviewing the plans for Code Compliance, it does not releve the counter, design professionals, contractors or with all local, steen and standard clean and standard clean with all local, steen and standard clean and standard sin who are time of permit leasures. Our review is not at the complex contraction, and the contraction of the contraction

P1.03
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