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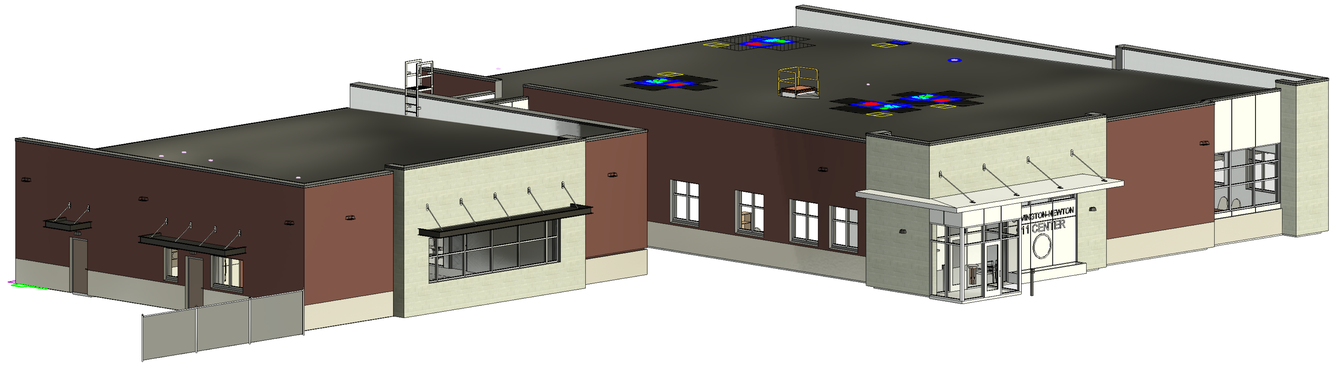
COVINGTON-NEWTON COUNTY 911 CENTER

PERMIT SET



NOTE: RENDERED PERSPECTIVE IMAGE SHOWN ON SHEET CS-1.01 IS FOR GRAPHIC ILLUSTRATION ONLY.

PROJECT DIRECTORY

OWNER:	COVINGTON-NEWTON COUNTY 11234 ALCOVY ROAD NE COVINGTON, GA 30014	TRUDY HENRY TEL: 770-385-2050 trudy.henry@covington-newton911.com
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MECHANICAL & PLUMBING:	TOTAL ENGINEERS 169 NEW STREET MACON, GA 31201	KRUNAL PATEL TEL: 478-741-4632 krunalpatel@totalengineers.com
ELECTRICAL:	ELECTRICAL DESIGN CONSULTANTS 175 NEW STREET SUITE 1 MACON, GA 31201	JEFFREY McGEE TEL: 478-781-1833 jmcgee@edc1973.com

DRAWING INDEX

SHEET NO.	SHEET NAME	06/18/25 PERMIT COMMENTS (B)	02/18/2026 BULETIN #01 (1)
01 COVER			
CS-1.01	COVER SHEET	X	X
02 LIFE SAFETY			
LS-1.01	LIFE SAFETY PLAN	X	
LS-1.02	ENVELOPE COMCHECK	X	
LS-1.03	ENVELOPE COMCHECK	X	
03 GENERAL			
G-1.01	ADA REGULATORY DETAILS & DIAGRAMS		
G-2.01	PARTITION TYPES		
06 STRUCTURAL			
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S-0.02	SCHEDULE OF SPECIAL INSPECTIONS		
S-0.03	SPECIAL INSPECTIONS		
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A-5.54	WALL SECTIONS		
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P-1.1	ENLARGED PLUMBING PLAN - SEWER		
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M-0.2	MECHANICAL SCHEDULES	X	
M-0.3	MECHANICAL DETAILS		
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M-1.1	ENLARGED MECHANICAL PLAN		
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11 ELECTRICAL			
E-1.01	ELECTRICAL LEGEND, SPECIFICATIONS, AND SCHEDULES		
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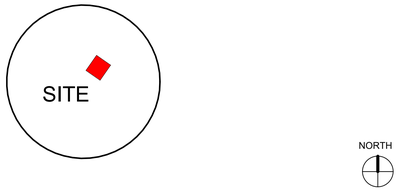
VICINITY MAP



ENERGY CODE INFORMATION

R VALUES:
2015 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C402.1.3 – THERMAL ENVELOPE MINIMUM REQUIREMENTS **CLIMATE ZONE #3a**

CI = CONTINUOUS INSULATION

CODE REQUIREMENT	CONDITION	BUILDING ELEMENT
R-25CI	INSULATION ENTIRELY ABOVE DECK	ROOF
R-13+R7.5CI	INSULATION @ METAL FRAMED WALL	WALLS, ABOVE GRADE
R-7.6CI	INSULATION @ MASS WALL	WALLS, ABOVE GRADE
NR	UNHEATED SLABS	FLOORS, SLAB ON GRADE

ABBREVIATIONS

@	AT
ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
B/	BOTTOM OF
BD.	BOARD
BLDG.	BUILDING
BR	BRICK
BRG.	BEARING
CFMF	COLD FORMED METAL FRAMING
C.L.	CENTER LINE
CLR	CLEAR
C.J.	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
COORD.	COORDINATE
COL	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
Ø	DIAMETER
DWG.	DRAWING
D.S.	DOWN SPOUT
EA.	EACH
ELEV.	ELEVATION
ELEC.	ELECTRIC
E.S.	EQUIPMENT SUPPLIER
EXP.	EXPANSION
EXT.	EXTERIOR
E.W.C.	ELECTRIC WATER COOLER
F.D.	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
F.F.	FINISHED FLOOR
FL.	FLOOR
F.O.	FACE OF
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
F.R.	FIRE RETARDANT
FRAN.	FRANCHISEE
FRP	FIBERGLASS REINFORCED POLYESTER
G.C.	GENERAL CONTRACTOR
GYP. BD.	GYPSUM BOARD
H.M.	HOLLOW METAL
HT	HEIGHT
I.B.C.	INSTALLED BY CONTRACTOR
JT.	JOINT
L.L.	LANDLORD
MFR.	MANUFACTURER
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MTL.	METAL
NC.	NON-COMBUSTIBLE
N.I.C.	NOT IN CONTRACT
N.T.E.	NOT TO EXCEED
N.T.S.	NOT TO SCALE
O.D.	OVERFLOW DRAIN
OPP.	OPPOSITE
PL.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PR.	PAIR
P.T.	PRESSURE TREATED
O.C.	ON CENTER
R.D.	ROOF DRAIN
S.B.O.	SUPPLIED BY OWNER
SCHED.	SCHEDULE
SIM.	SIMILAR
STL.	STEEL
STRUCT.	STRUCTURAL
T/	TOP OF
T&G	TONGUE AND GROOVE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC	VINYL WALL COVERING
W	WIDE
W/	WITH
WD.	WOOD
W.W.F.	WELDED WIRE FABRIC

SYMBOLS

- 1 / A-3.1 — ELEVATION MARK
- SECTION MARK 'SIM' - SIMILAR 'OH' - OPPOSITE HAND
- ENLARGED PLAN / DETAIL MARK
- 001 — DOOR REFERENCE NUMBER
- OFFICE 101 — ROOM NAME & NUMBER
- A — COLUMN AND GRID NUMBER
- SF-1 — WINDOW REFERENCE NUMBER
- SOLID GROUT
- WOOD DIMENSIONAL
- SHEATHING
- PLASTER, GYPSUM WALLBOARD
- RIGID INSULATION
- BATT INSULATION
- EARTH
- GRANULAR
- CONCRETE
- BRICK
- STEEL, IRON
- WOOD
- MORTAR NET

GENERAL NOTES

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 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.
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 INCOMPLETE CONDITION.

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

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SHEARSTRUCTURAL.COM

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	02/07/2025	50% DISTRIBUTION
	04/30/2025	PERMIT SET
B	06/18/2025	PERMIT COMMENTS
1	02/18/2026	BULLETIN #01

Drawn By Author
Checked By Checker
Date 02/07/2025
Job No. 24029

Sheet Title
COVER SHEET

Sheet No.
CS-1.01

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1 **LIFE SAFETY PLAN**
SCALE: 1/8" = 1'-0"

OCCUPANCY LOAD

	EXERCISE W/ EQUIP	474SF / 50SF = 10
	CLASSROOM /TRAINING	1,201SF / 20SF = 61
	STORAGE/ MECH	1,451SF / 500SF = 3
	BUSINESS	6,508SF / 150SF = 44

TOTAL OCCUPANTS = 118

BUILDING DATA

OCCUPANCY CLASSIFICATION:
MIXED/NONSEPARATED (LSC 3.3.196.10/IBC 508.3)
BUSINESS (LSC 6.1 & CHPT 38) GROUP B (IBC CHPT 302)
ASSEMBLY (LSC 6.1 & CHPT. 12) GROUP A-3 (IBC CHPT 302) AS ANCILLARY

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 'A3')
ACTUAL HEIGHT: 20'

ALLOWABLE STORIES ABOVE GRADE PLANE (TABLE 504.4)
-OCCUPANCY 'B': 4 STORIES
-OCCUPANCY 'A-3': 3 STORIES
ACTUAL STORIES: 1 STORY

ALLOWABLE AREA FACTOR (TABLE 506.2)
-OCCUPANCY 'B': 92,000SF
-OCCUPANCY 'A-3': 38,000SF
ACTUAL AREA: 10,359SF

BUILDING AREAS (IBC):		BUILDING OCCUPANCY (LSC):	
LEVEL 000 =	10,359 GSF	LEVEL 000 =	118
TOTAL =	**10,359 GSF**	**TOTAL =**	**118**

FIRE RATING CRITERIA (IBC) RATING:

TABLE 601:	
PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS	
EXTERIOR	0 HOUR
INTERIOR	0 HOUR
NONBEARING WALLS	
INTERIOR	0 HOUR
FLOOR SYSTEM	0 HOUR
ROOF SYSTEM	0 HOUR
TABLE 602:	
NONBEARING WALLS	
EXTERIOR (11' - B)	0 HOUR
PARTY & FIRE WALLS (TABLE 706.4):	2 HOUR
VERTICAL SHAFT ENCLOSURES (713.4):	1 HOUR

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)

OCCUPANCY SEPARATIONS (IBC TABLE 508.4):
A TO B = 1 HRS

APPLICABLE CODES

B

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020)(2022)(2024)(2025)
2018 INTERNATIONAL FIRE CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04 (72)
2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2020)(2022)(2023)(2024)
2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)(2024)
2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020)(2022)
2023 NFPA 70 NATIONAL ELECTRICAL CODE
2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS
2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)(2022)(2023)
2018 NFPA 101, LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE WITH GEORGIA CURRENT AMENDMENTS
2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS WITH GEORGIA CURRENT AMENDMENTS
2010 AEORGIA ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11 - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER 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
FEC 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
REQUIRED / PROVIDED
FIRST FLOOR: DOOR: 23.6" / 180"

DOORS PER IBC 1010.1

EXIT SIGNS PER IBC 1013
EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)

OCCUPANCY LOAD FACTOR LSC 7.3.1.2 W/GEORGIA AMENDMENTS
AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT
(REFER TO PLANS FOR ROOM OCCUPANCY CALCULATIONS)

ACCESSORY STORAGE AREAS, MECHANICAL, ELECTRICAL ROOMS	= 500 GSF/PERSON
ASSEMBLY (CONCENTRATED)	= 7 NSF/PERSON
ASSEMBLY (UNCONCENTRATED)	= 15 NSF/PERSON
CLASSROOM/TRAINING	= 20 NSF/PERSON
EXERCISE W/ EQUIPMENT EXERCISE W/O EQUIPMENT	=50 NSF/PERSON =15 NSF/PERSON
BUSINESS AREAS	= 150 GSF/PERSON

ALLOWABLE DISTANCE PER LSC 12.2.6
TRAVEL DISTANCE LIMIT - MAX. 300 FT. SPRINKLERED
COMMON PATH LIMIT - MAX. 100 FT. SPRINKLERED
DEAD END LIMIT - MAX. 50 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) ACTUAL EGRESS COUNT [00] EGRESS CAPACITY OF STAIR
<00> EGRESS CAPACITY OF EXIT

PLUMBING FIXTURE REQUIREMENTS (IBC 2902.01)

OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
ASSEMBLY A-3	1 PER 125 (MALE) 1 PER 65 (FEMALE)	1 PER 200	1 PER 200	1
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

PLUMBING FIXTURE COUNT: (TOTAL OCCUPANCY X,XXX)

OCCUPANCY	WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINK	
ASSEMBLY A-3 71 PERSONS	REQUIRED				REQUIRED				REQUIRED		REQUIRED	
	M	F			M	F			1		1	
	1	1			1	1						
BUSINESS 44 PERSONS	REQUIRED				REQUIRED				REQUIRED		REQUIRED	
	M	F			M	F			1		1	
	1	1			1	1						
TOTAL (BUSINESS + ASSEMBLY)	REQUIRED		PROVIDED		REQUIRED		PROVIDED		REQUIRED	PROVIDED	REQUIRED	PROVIDED
	M	F	M	F	M	F	M	F	2	4	1	1
	2	2	3	3	2	2	2	2				
ADDITIONAL SINGLE OCCUPANT HCAP RESTROOMS	REQUIRED		PROVIDED		REQUIRED		PROVIDED					
	UNISEX		UNISEX		UNISEX		UNISEX					
	XX		2		XX		2					

BRAVO BLDG SET 03-23-2026

JERICHO design group
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Drawn By Author
Checked By Checker
Date 02/07/2025
Job No. 24029

Sheet Title
LIFE SAFETY PLAN

Sheet No.
LS-1.01

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Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	Covington-Newton 911 Center
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	10%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_GA_Atlanta-Hartsfield-Jackson.Intl.AP.722190_TMY3.epw)
Construction Site:	
Owner/Agent:	
Designer/Contractor:	

Building Area	Floor Area
1-all offices (Police) : Nonresidential	10359

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance = 0.55, Thermal Emittance = 0.75, [Bldg. Use 1 - all offices]	9747	---	25.0	0.039	0.039
NORTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - all offices]	1317	13.0	7.5	0.064	0.077
Window: Metal Frame: Fixed, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	215	---	---	0.240	0.500
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	21	---	---	0.240	0.770
Ext. Wall: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - all offices]	947	0.0	7.6	0.096	0.123
Door: Insulated Metal, Swinging, [Bldg. Use 1 - all offices]	84	---	---	0.210	0.700
EAST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - all offices]	1765	13.0	7.5	0.064	0.077
Window: Metal Frame: Fixed, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	118	---	---	0.240	0.500
Door: Insulated Metal, Swinging, [Bldg. Use 1 - all offices]	105	---	---	0.210	0.700
Ext. Wall: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - all offices]	937	0.0	7.6	0.096	0.123
SOUTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - all offices]	1605	13.0	7.5	0.064	0.077
Window: Metal Frame: Fixed, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	286	---	---	0.240	0.500
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	21	---	---	0.240	0.770
WEST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - all offices]	1699	13.0	7.5	0.064	0.077
Window: Metal Frame: Fixed, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	200	---	---	0.240	0.500
Ext. Wall: Concrete Block, 8in., Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - all offices]	1053	0.0	7.6	0.096	0.123
Window: Metal Frame: Fixed, Perf. Specs.: Product ID SolarBan 70 Solar Gray, SHGC 0.19, VT 0.32, [Bldg. Use 1 - all offices] (b)	35	---	---	0.240	0.500
Door: Insulated Metal, Swinging, [Bldg. Use 1 - all offices]	42	---	---	0.210	0.700

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Project Notes

Envelope PASSES: Design 2% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen Mangum - Project Design Manager — Name - Title
Signature
06/17/2025 — Date

911 Center

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 90.1 (2013) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.4.2.3 [PR7][3]	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is >= half the floor area and (a) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights have a measured haze value > 90 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1][1]	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
4.2.4 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Unheated ☐ Heated	R-____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.3.5 [FO5][3]	Slab edge insulation depth/length.	____ ft	____ ft	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][1]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.4.3.4 [FR4][1]	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoinging floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.2.2 [FR13][2]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ ☐ Swinging ☐ Nonswinging	U-____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN8][1]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.9 [IN18][2]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.4 [IN11][2]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.5 [IN12][2]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.2 [IN16][1]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.8 [IN17][1]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Cumming, GA 30040

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TOTAL ENGINEERS

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(678) 664-8051
SHEARSTRUCTURAL.COM

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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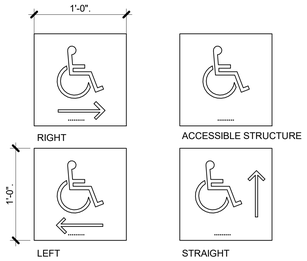
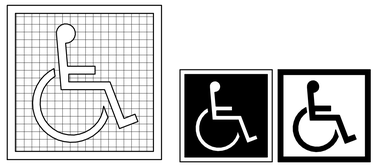


NOTE:
5/8"-2" UPPER CASE TEXT RAISED 1/32" IN SANS SERIF OR SIMPLE SERIF TYPEFACE WITH GRADE II BRAILLE

D1 DIRECTIONAL WALL SYMBOLS
NOT TO SCALE

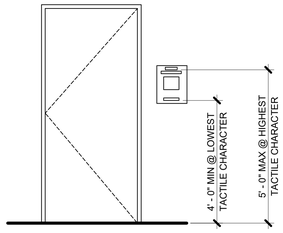


NOTE:

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

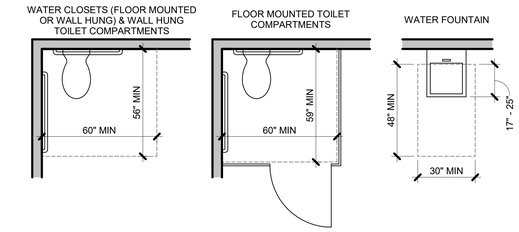
SIGN LETTERS/ NUMBERS WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

D2 INTERNATIONAL ACCESSIBILITY SYMBOL
SCALE: 12" = 1'-0"



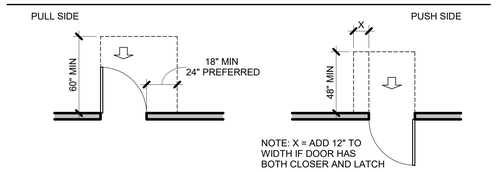
NOTE: LOCATE SIGN ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND 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

D3 SIGNAGE MOUNTING REQMTS
SCALE: 1/2" = 1'-0"

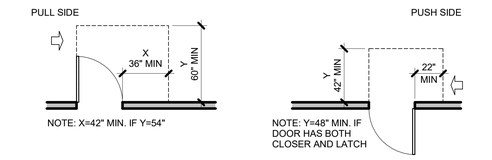


E5 ADA CLEARANCES
SCALE: 3/8" = 1'-0"

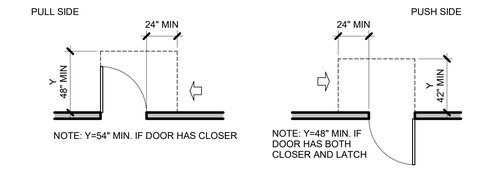
FRONT APPROACH



HINGE-SIDE APPROACH



LATCH-SIDE APPROACH



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.

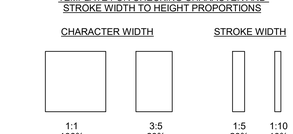
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.

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.

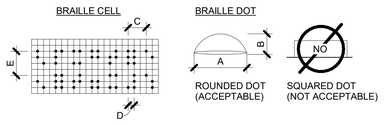
ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT SMALLER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE TO DETERMINE IF 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.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

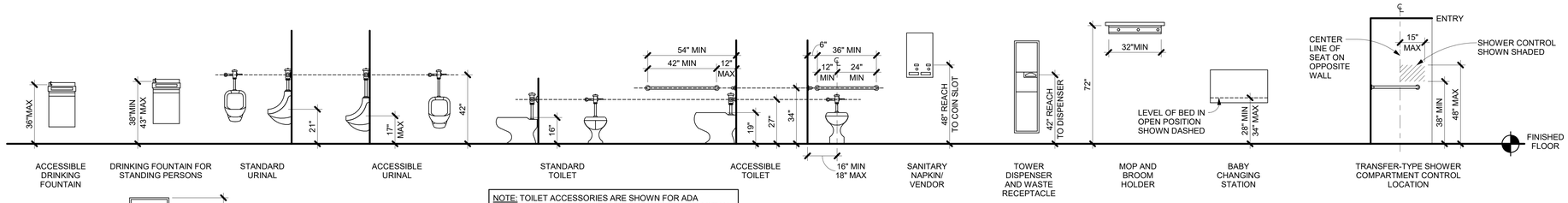


MEASUREMENT RANGE	MIN - MAX
A: DOT BASE DIAMETER	0.059" - 0.063"
B: DOT HEIGHT	0.025" - 0.037"
C: DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.241" - 0.300"
D: DISTANCE BETWEEN DOTS IN THE SAME CELL	0.090" - 0.100"
E: DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395" - 0.400"



B1 BRAILLE REQUIREMENTS
SCALE: 12" = 1'-0"

B3 DEVICE ALIGNMENT DIAGRAM
SCALE: 3/8" = 1'-0"



NOTE: TOILET ACCESSORIES ARE SHOWN FOR ADA MOUNTING HEIGHT ONLY AND DO NOT REPRESENT ACTUAL FIXTURES SPECIFIED. SEE PLUMBING DRAWINGS AND TOILET ACCESSORY SCHEDULE FOR DETAILS.

B5 DOOR CLEARANCES
SCALE: 1/4" = 1'-0"

A1 MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

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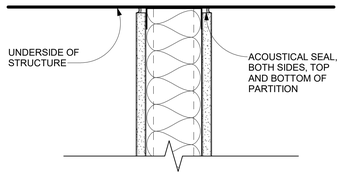
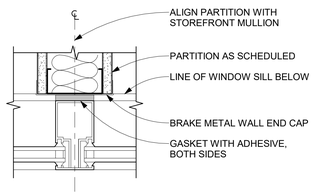
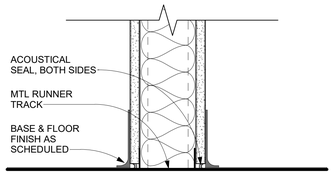


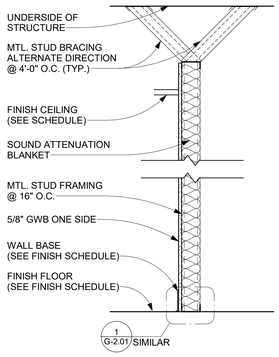
3 HEAD OF WALL DETAIL
SCALE: 3" = 1'-0"



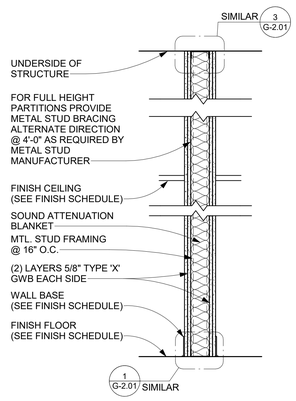
2 PARTITION/MULLION CLOSURE
SCALE: 3" = 1'-0"



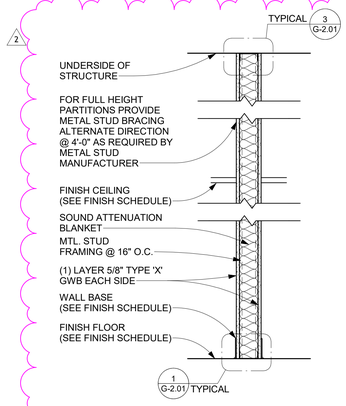
1 BOTTOM OF WALL DETAIL
SCALE: 3" = 1'-0"



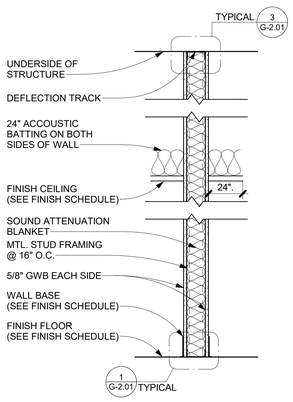
MTL. STUD FURRING TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
H1	7/8" HAT CHANNELS (NO ACOUSTIC BATTING)	N/A	N/A	N/A
H2	2 1/2" MTL. STUD	N/A	N/A	N/A
H3	3 5/8" MTL. STUD	N/A	N/A	N/A
H6	6" MTL. STUD	N/A	N/A	N/A



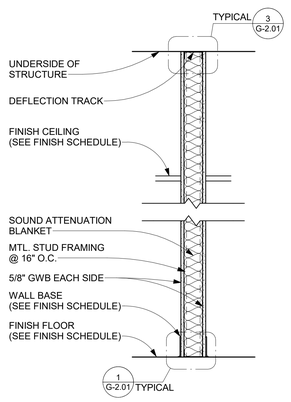
MTL. STUD PARTITION / FIRE RATED				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
G2	2 1/2" MTL. STUD	2 HR	U419	--
G3	3 5/8" MTL. STUD	2 HR	U419	--
G6	6" MTL. STUD	2 HR	U419	--



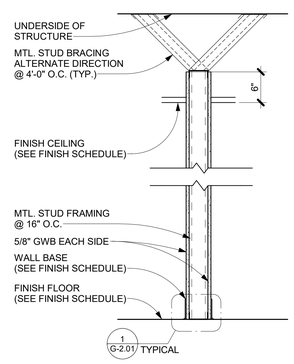
MTL. STUD PARTITION / FIRE RATED				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
E2	2 1/2" MTL. STUD	1 HR	U419	47
E3	3 5/8" MTL. STUD	1 HR	U419	49
E6	6" MTL. STUD	1 HR	U419	49



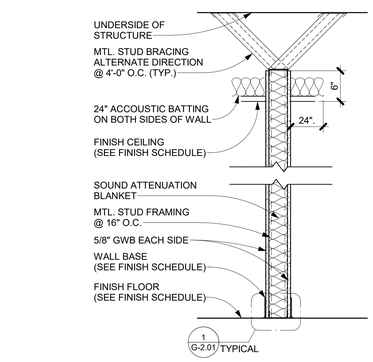
MTL. STUD PARTITION TO UNDERSIDE OF STRUCTURE				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
D2	2 1/2" MTL. STUD	N/A	N/A	48-55
D3	3 5/8" MTL. STUD	N/A	N/A	48-55
D6	6" MTL. STUD	N/A	N/A	48-55



MTL. STUD PARTITION TO UNDERSIDE OF STRUCTURE				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
C3	3 5/8" MTL. STUD	N/A	N/A	48-55
C6	6" MTL. STUD	N/A	N/A	48-55
C8	8" MTL. STUD	N/A	N/A	48-55



MTL. STUD PARTITION TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
B2	2 1/2" MTL. STUD	N/A	N/A	N/A
B3	3 5/8" MTL. STUD	N/A	N/A	N/A
B6	6" MTL. STUD	N/A	N/A	N/A



MTL. STUD PARTITION TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
A2	2 1/2" MTL. STUD	N/A	N/A	48-55
A3	3 5/8" MTL. STUD	N/A	N/A	48-55
A6	6" MTL. STUD	N/A	N/A	48-55

GENERAL PARTITION NOTES

1. 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 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 UNLESS OTHERWISE NOTED.
6. PROVIDE 5/8" TYPE X GYPSUM BOARD AT FIRE RATED PARTITIONS.
7. 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.
9. 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.
10. 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 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.

BRAVO BLDG SET 03-23-2026

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TOTAL ENGINEERS

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SUITE A102-491
ATLANTA, GA 30308
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SHEARSTRUCTURAL.COM

COVINGTON-NEWTON COUNTY 911 CENTER
CITY OF COVINGTON and NEWTON COUNTY
10796 HWY 36
COVINGTON, GA 30014

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GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
14. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
15. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.
16. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
17. SUBMITTALS

 17.1 SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. PRIOR TO THE INITIAL SUBMITTAL, CONTRACTOR SHALL SUBMIT TO THE DESIGN PROFESSIONAL A SCHEDULE OF SUBMITTED INFORMATION.

 17.2 SUBMITTALS SHALL BE ACCOMPANIED BY A TRANSMITTAL LETTER WITH THE FOLLOWING INFORMATION:
 - PROJECT NAME
 - CONTRACTOR'S NAME
 - DATE SUBMITTED
 - DESCRIPTION OF ITEMS SUBMITTED. IDENTIFY WORK AND PRODUCT BY SPECIFICATION SECTION
 - NUMBER OF DRAWINGS AND OTHER PERTINENT DATA.

 17.3 CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.

 17.4 WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR CONTRACT TIME AT COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS WITH THE DESIGN PROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE.

CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
 - INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
2. GRAVITY LOADS

 2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
 - SLAB ON GRADE 100 PSF

 2.2 UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
 - ROOF, L_r 20 PSF
 - GROUND SNOW LOAD, P_g 5 PSF

 PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.

 2.4 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):

 ROOF:
 - 20 PSF
3. WIND LOADS:
 - BASIC DESIGN WIND SPEED, V = 120 MPH
 - ALLOWABLE DESIGN WIND SPEED, V_{ASD} = 93 MPH
 - RISK CATEGORY: IV
 - EXPOSURE C
 - INTERNAL PRESSURE COEFFICIENT = +/- 0.18

 SEE COMPONENT AND CLADDING DESIGN WIND PRESSURE DIAGRAM ON S-0.03.
4. EARTHQUAKE LOADS:
 - RISK CATEGORY: IV
 - SEISMIC IMPORTANCE FACTOR: I = 1.5
 - SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S_S = 0.179
 - 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S_1 = 0.082
 - SITE CLASS D (ASSUMED)
 - SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{DS} = 0.191
 - 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{D1} = 0.131
 - SEISMIC DESIGN CATEGORY: C
 - BASIC SEISMIC-FORCE RESISTING SYSTEM:
   - E-911 STRUCTURE
 - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 - DESIGN BASE SHEAR: 23 KIPS
 - SEISMIC RESPONSE COEFFICIENT, C_S = 0.082
 - RESPONSE MODIFICATION FACTOR, R = 3.5
   - ADMINISTRATIVE BUILDING
 - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - DESIGN BASE SHEAR: 34 KIPS
 - SEISMIC RESPONSE COEFFICIENT, C_S = 0.0956
 - RESPONSE MODIFICATION FACTOR, R = 3
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:

	DEAD LOAD	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/360	L/360	L/240

 - WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
 - THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.
6. SPECIAL INSPECTIONS:

 6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE SOIL, CONCRETE, MASONRY, AND STEEL CONSTRUCTION. SEE SPECIFICATION SECTIONS 014525 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL INSPECTIONS.

 6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO AND ROOF JOISTS OF STEEL MATERIALS AND STRUCTURAL STEEL FRAMING.

 6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

 6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

 6.5 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.

 6.6 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

FOUNDATION

1. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL GIVE CONSIDERATION TO THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF AND 2,000 PSF, RESPECTIVELY.

 3.1 NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.
4. PROOF ROLL BUILDING AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP-TRUCK OR SCRAPER. REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.
5. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 95% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTION AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY. STRUCTURAL FILL SOIL DENSITY SHALL BE 110 PCF.
6. SLABS-ON-GRADE SHALL BE PLACED ON A 4" GRANULAR BASE, COMPACTED TO 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698, AND COVERED WITH A CONTINUOUSLY SEALED VAPOR BARRIER. SEE ARCHITECT FOR THICKNESS OF VAPOR BARRIER THE BASE FOR SLABS-ON-GRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO EACH PLACEMENT OF CONCRETE.
7. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL).
8. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
9. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF 8".
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
6. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

 6.1 CONCRETE REINFORCEMENT COVER

 EXPOSED TO EARTH OR WEATHER:
 - UNFORMED CAST AGAINST EARTH 3" CLEAR
 - FORMED #6 AND LARGER 2" CLEAR
 - FORMED #5 AND SMALLER 1-1/2" CLEAR

 NOT EXPOSED TO EARTH OR WEATHER:
 - WALLS 1" CLEAR
 - SLABS 3/4" CLEAR

 6.2 MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
7. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
 - CONCRETE REINFORCEMENT: CLASS B TENSION LAP
 - MASONRY REINFORCEMENT: SEE DETAIL 5/S-4.01
8. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. REINFORCING INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
9. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
10. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS SHOWN OTHERWISE IN DETAILS.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

 2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:
 - FOOTINGS 3000 PSI F0
 - SLABS-ON-GRADE 4000 PSI F0
 - CONCRETE ON METAL FORM DECK 3500 PSI F0
3. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS INCLUDING CROSSING UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS. ALL PIPES AND DUCTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
6. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE DESIGN PROFESSIONAL.

CONCRETE MASONRY

1. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF ASTM C90 CONCRETE MASONRY UNITS SHALL BE F'M = 2000 PSI.
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY = 2000 PSI.
3. MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY AND ASTM C270. MORTAR SHALL BE OF THE FOLLOWING TYPE:
 - WALLS BELOW GRADE TYPE M
 - BEARING WALLS TYPE M OR S
4. CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT FOR REINFORCED AND NONREINFORCED MASONRY SHALL CONFORM TO ASTM C476.
5. PROVIDE HORIZONTAL LADDER-TYPE JOINT REINFORCEMENT WITH NO. 9 GAGE DEFORMED LONGITUDINAL WIRES AT 16" C/C VERTICALLY AND AT 8" BELOW GRADE, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC. LONGITUDINAL WIRES SHALL BE PLACED IN THE MORTAR JOINTS.
6. PROVIDE OPEN BOTTOM BEAM BLOCK UNITS WITH 3" DEEP MINIMUM WEB OPENINGS AT HORIZONTAL REINFORCEMENT LOCATIONS. A MINIMUM CLEAR SPACE OF ONE BAR DIAMETER SHALL BE PROVIDED BETWEEN THE REINFORCING BARS AND THE FACE OF MASONRY UNITS.
7. PROVIDE CONTROL JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE DESIGN PROFESSIONAL AT A MAXIMUM SPACING OF 3 TIMES THE WALL HEIGHT OR 25'-0", WHICHEVER IS LESS.
8. PROVIDE DOVETAIL ANCHORS AT 16" C/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
9. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.
10. MINIMUM VERTICAL WALL REINFORCEMENT SHALL BE #5@24" CENTERED, UNLESS NOTED OTHERWISE.
11. MINIMUM VERTICAL WALL REINFORCEMENT FOR INTERIOR NON-LOAD BEARING PARTITION WALLS SHALL BE #4@48" CENTERED, UNLESS NOTED OTHERWISE.
12. SUBMIT SHOP DRAWINGS FOR MASONRY REINFORCEMENT IN ACCORDANCE WITH SPECIFICATION SECTION 032000.

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STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
 - STRUCTURAL STEEL HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE C.
 - MISCELLANEOUS PLATES AND CONNECTION MATERIAL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
2. BOLTS AND ANCHORS:

 2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER F3125 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2014 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS).

 2.2 ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 36 AND SHALL BE HEADED RODS OR THREADED RODS WITH HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, GRADE A563A, UNLESS NOTED OTHERWISE.

 2.3 EXPANSION ANCHORS SHALL HAVE BEEN EVALUATED BY THE ICC EVALUATION SERVICES, INC (ICC-ES) WITH A PUBLISHED EVALUATION REPORT. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 193 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. ALL ANCHORS SHALL BE APPROVED FOR RESISTING WIND AND SEISMIC LOADS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.

 2.4 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH ADHESIVE CONFORMING TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHALL BE OBTAINED FROM THE TABLES ENTITLED "MAXIMUM TOTAL UNIFORM LOAD" IN PART 3 OF THE AISC "MANUAL OF STEEL CONSTRUCTION", FIFTEENTH (15^{TH}) EDITION. THE DESIGN REACTION IS EQUAL TO HALF THE TABULATED VALUE FOR NONCOMPOSITE BEAMS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL. DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN. SINGLE ANGLE CONNECTIONS ARE NOT ACCEPTABLE.
5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY D1.1/D1.1M-2015. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
6. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

STEEL JOISTS

1. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
2. STEEL ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UNIFORM UPLIFT LOAD AS INDICATED ON THE COMPONENTS AND CLADDING DIAGRAM MINUS THE SELF WEIGHT OF THE JOIST AND 5 PSF SUPERIMPOSED DEAD LOAD.
3. BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR ROOF JOISTS NOT BRACED BY STEEL ROOF DECK.
4. DESIGN OF STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS, BRIDGING AND THEIR CONNECTIONS. SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
5. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ERECTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. TO ENSURE COMPATIBILITY OF ROOF AND WALL SYSTEMS CONSIDERING PITCH AND CAMBER OF STEEL JOISTS.
6. ALL JOIST SEATS SHALL BE CAPABLE OF RESISTING A 2,000 LB SERVICE OVERTURNING FORCE.

METAL DECK

1. DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
2. PROVIDE GALVANIZED ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
 - 1 1/2 INCH DEPTH
 - 20 GAGE THICKNESS
 - 0.224 IN^3/FT SECTION MODULUS
 - 0.197 IN^4/FT MOMENT OF INERTIA
 - 50,000 PSI YIELD STRESS
3. PROVIDE GALVANIZED FORM DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
 - 0.625 INCH DEPTH
 - 28 GAGE THICKNESS
 - 0.034 IN^3/FT SECTION MODULUS
 - 0.012 IN^4/FT MOMENT OF INERTIA
 - 60,000 PSI YIELD STRESS
4. DECK IS SPECIFIED BASED ON A THREE SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITIONS.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE BUILDING INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. DEFERRED SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, CALCULATIONS, DESIGN LOAD DATA AND SUPPORT REACTIONS OF THE COMPONENTS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
4. ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS:
 a. STEEL JOISTS
 b. STEEL CONNECTION DESIGN
 c. COLD-FORMED STEEL FRAMING
 d. PRE-FABRICATED CANOPIES

COLD-FORMED STEEL

1. DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.
2. COLD-FORMED STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" OR "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR COLD-FORMED STEEL STRUCTURAL MEMBERS".
3. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
4. COLD-FORMED STEEL SHALL BE DESIGNED FOR THE DESIGN LOADS SHOWN IN THE CONTRACT DOCUMENTS. REFER TO THE SPECIFICATIONS.
5. MATERIAL TESTING AGENCY TO CONFIRM CFMF HAS BEEN INSTALLED PER CONTRACT DRAWINGS AND APPROVED SHOP DRAWINGS.
6. WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION.
7. PROVIDE 1 1/2" GAP AT ALL DEFLECTION TRACKS TO STRUCTURE.

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CITY OF COVINGTON and NEWTON COUNTY

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PRINT RECORD

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STRUCTURAL GENERAL NOTES

Sheet No.

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SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	COVINGTON EOC 911 CENTER					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.)	Submittal review, shop (3) and/or field inspection				
		N			
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N	Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic		
3. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints: *see Commentary*					
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	Y	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	N	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection				
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	Observe or Perform as noted (4)		
b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		Y	Observe (4)		
1) Pre-tensioned and slip-critical joints		Y			
a) Turn-of-nut with matching markings		N	Periodic		
b) Direct tension indicator		Y	Periodic		
c) Twist-off type tension control bolt		Y	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		Y	Continuous		
2) Snug-tight joints		Y	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		Y	Perform (4)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) and field inspection and testing	Y	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic		
1705.2.2 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section 2, Paragraphs 2.1 and 2.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials:	Shop (3) and field inspection	Y	Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection				
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)		Y	Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)		Y	Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection				
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)		Y	Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)		Y	Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)		Y	Perform (4)		
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection				
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)		Y	Observe (4)		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	COVINGTON EOC 911 CENTER					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)		Y	Observe (4)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)		Y	Perform (4)		
1705.2.3. Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders.		Y			
a. End connections - welding or bolted.	per SJI CJ or SJI 100	Y	Periodic		
b. Bridging - horizontal or diagonal.		Y			
1) Standard bridging.	per SJI CJ or SJI 100	Y	Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.		N	Periodic		
1705.2.4. Cold-Formed Steel Trusses Spanning 60 feet or Greater					
Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N			
1705.3 Concrete Construction					
1. Inspection and placement verification of reinforcing steel and prestressing tendons.	Shop (3) and field inspection	Y	Periodic		
2. Reinforcing bar welding:		N			
a. Verification of weldability of bar other than ASTM A706.			Periodic		
b. Inspection of single-pass fillet welds 5/16 or less in size.			Periodic		
c. Inspection of all other welds.			Continuous		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	Y	Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	N	Periodic or as required by the research report issued by an approved source		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.			Continuous		
b. Mechanical and adhesive anchors not defined in 4a.			Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
6. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	Y	Continuous		
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous		
8. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic		
9. Inspection of prestressed concrete:	Shop (3) and field inspection	N			
a. Application of prestressing force			Continuous		
b. Grouting of bonded prestressing tendons			Continuous		
10. Inspect erection of precast concrete members		N	Periodic		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review	Y	Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of f'm and FAAC except where specifically required by the code	Testing by unit strength method or prism test method	Y	Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method	Y	Periodic		
(C) Level 3 Quality Assurance:					
1. During construction, verification of f'm and FAAC for every 5,000 SF	Testing by unit strength method or prism test method	Y	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection	Y	Periodic		
MINIMUM SPECIAL INSPECTION REQUIREMENTS					
(D) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in					
a. Proportions of the site-prepared mortar	Field inspection	Y	Periodic		
b. Grade and size of prestressing tendons and anchorages	Field inspection	Y	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field inspection	Y	Periodic		
d. Prestressing technique	Field inspection	N	Periodic		
e. Properties of thin-bed mortar for AAC masonry (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection	N	Level 2 - Continuous (b) Level 2 - Periodic (c)		
		N	Level 3 - Continuous		
f. Sample panel construction	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	COVINGTON EOC 911 CENTER					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	N	Level 2 - Periodic		
		Y	Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	N	Level 2 - Periodic		
		Y	Level 3 - Continuous		
d. Proportions of site-prepared grout and prestresssing grout for bonded tendons	Field inspection	Y	Periodic		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	Y	Periodic		
b. Placement of masonry units and mortar joint construction	Field inspection	Y	Periodic		
c. Size and location of structural members	Field inspection	Y	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	N	Level 2 - Periodic		
		Y	Level 3 - Continuous		
e. Welding of reinforcement	Field inspection	N	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection	Y	Periodic		
g. Application and measurement of prestressing force	Field testing	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field inspection	Y	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection	N	Level 2 - Continuous (b) Level 2 - Periodic (c)		
		N	Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection	N	Level 2 - Periodic		
		Y	Level 3 - Continuous		
1705.5 Wood Construction					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans.	Field inspection	N	Periodic		
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses:		N			
a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection		Periodic		
b. For trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection		Periodic		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic		
3. Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic		
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
1705.7 Driven Deep Foundations					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load tests, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
1705.8 Cast-in-Place Deep Foundations					
1.Inspect drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
1705.9 Helical Pile Foundations					
Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other installation data as required by construction documents.	Field inspection	N	Continuous		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	COVINGTON EOC 911 CENTER					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.10 Fabricated items					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection	N	As noted in each applicable shop activity		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):					
Pre-fabricated canopies		Y			
1705.11.1 Structural Wood Special Inspections For Wind Resistance					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance					
1.Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2.Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	N	Periodic		
1705.11.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	N	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	N	Periodic		
1705.12.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISC 341		
1705.12.2 Structural Wood Special Inspections for Seismic Resistance					
1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection	N	Continuous		
2. Nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system including wood shear walls, wood diaphragms, drag struts, shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.4 Designated Seismic Systems Verification					
For SDC C, D, E or F, inspect and verify that that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.2.	Field inspection	N	Periodic		
1705.12.5 Architectural Components Special Inspections for Seismic Resistance					
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection	N	Periodic		
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection	N	Periodic		
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.		N			
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	N	Periodic		
1705.12.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection	?	Periodic		
2. Inspection during the anchorage of other electrical equipment in SDC E or F	Field inspection	N	Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F	Field inspection	?	Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials SDC C, D, E or F	Field inspection	?	Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection	?	Periodic		
6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:					
a. ASCE/SEI 7, Section 13.2.3 minimum required clearances have been provided.	Field inspection	?	Periodic		
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and: structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping.	Field inspection	?	Periodic		
1705.12.7 Storage Racks Special Inspections for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.12.8 Seismic Isolation Systems					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system in structures assigned to SDC B, C, D, E or F.	Shop and field inspection	N	Periodic		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	COVINGTON EOC 911 CENTER					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.12.9 Cold-formed Steel Special Bolted Moment Frames					
Inspection of installation of cold-formed steel special bolted moment frames in the seismic force-resisting systems in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.13.1 Structural Steel Testing for Seismic Resistance					
1. Nondestructive testing of structural steel in the seismic force-resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
2. Nondestructive testing of structural steel elements in the seismic force-resisting systems not covered in 1 above including struts, collectors, chords and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
1705.13.2 Seismic Certification of Nonstructural Components					
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.13.3 Seismic Certification of Designated Seismic Systems					
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.13.4 Seismic Isolation Systems					
Test seismic isolation system in accordance with ASCE 7 Section 17.8 in structures assigned to SDC B, C, D, E or F.	Prototype testing	N	Per ASCE 7		
1705.14 Sprayed Fire-resistant Materials					
1. Verify surface condition preparation of structural members	Field inspection	N	Periodic		
2. Verify minimum thickness of sprayed fire-resistant materials applied to structural members	Field inspection	N	Periodic		
3. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and testing	N	Per IBC Section 1705.13.5		
4. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing	N	Per IBC Section 1705.13.6		
5. Condition of finished application	Field inspection	N	Periodic		
1705.15 Mastic and Intumescent Fire-Resistant Coatings					
Inspect and test mastic and intumescent fire-resistant coatings applied to structural elements and decks per AWCI 12-B	Field inspection	N	Periodic		
1705.16 Exterior Insulation and Finish Systems (EIFS)					
Inspection of water-resistive barrier over sheathing substrate	Field inspection	N	Periodic		
1705.17 Fire-Resistant Penetrations and Joints					
1. Inspect penetration firestop	Field testing	N	Per ASTM E2174		
2. Inspect fire-resistant joint systems	Field testing	N	Per ASTM E2393		
1705.18 Smoke Control Systems					
1. Leakage testing and recording of device locations prior to concealment	Field testing	N	Periodic		
2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control verification	Field testing	N	Periodic		

*** INSPECTION AGENTS**

	FIRM	ADDRESS	TELEPHONE NO.
1.	UNITED CONSULTING	625 HOLCOMB BRIDGE RD, NORCROSS, GA	(770) 209-0029
2.	GEOHYDRO ENGINEERS	1000 COBB PL BLVD #290, KENNESAW, GA	(770) 426-7100
3.	TERRACON	2105 NEWPOINT PL #600, LAWRENCEVILLE, GA	(770) 623-0755
4.			

Notes:

1. *The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*
2. *The list of Special Inspectors may be submitted as a separate document, if noted so above.*
3. *Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.*
4. *Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.*
5. *NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.*

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*?	N
Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*?	N

DATE: SEE TITLEBLOCK

BRAVO BLDG SET 03-23-2026

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Cumming, GA 30040

GEORGIA REGISTERED No. 34506/134 STRUCTURAL ENGINEER JERICHO DESIGN GROUP, LLC JEFFREY C. HOLLEY

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COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION

Drawn By CW
Checked By HJ
Date 04/25/2025
Job No. 24029

Sheet Title
SCHEDULE OF SPECIAL INSPECTIONS

Sheet No.
S-0.02

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STATEMENT OF SPECIAL INSPECTIONS

PROJECT: COVINGTON E-911
LOCATION: COVINGTON, GA
PERMIT APPLICANT:
APPLICANT'S ADDRESS:
ARCHITECT OF RECORD:
STRUCTURAL ENGINEER OF RECORD:
MECHANICAL ENGINEER OF RECORD:
ELECTRICAL ENGINEER OF RECORD:
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE:

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Requirements for Seismic Resistance* and/or *Requirements for Wind Resistance*.

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*? No

Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*? No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

_X_ Weekly ___Bi-Weekly __Monthly Other; specify:_____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

HOLLY JEFFREYS, SE
Type or print name

SEE TITLEBLOCK
Signature Date

Building Official's Acceptance:

Signature Date
Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:_____

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: C

Statement of Special Inspection for Seismic Resistance Required (Yes/No): No

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.12.1, 1705.12.2, and 1705.12.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

N/A - Steel Systems Not Specifically Detailed for Seismic Resistance, R = 3.

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, *Ip*, greater than one and are in Seismic Design Categories C, D, E or F.)

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.12.5, 1705.12.6, 1705.12.7, and 1705.12.8.)

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.13)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

Special Inspections for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Allowable Stress Design Wind Speed, V_{asd}: 93 **m.p.h.**

Wind Exposure Category: C

Statement of Special Inspection for Wind Resistance Required (Yes/No): N
(Required in wind exposure Category B, where the allowable stress design wind speed, V_{asd}, is 120 miles per hour or greater. Required in wind exposure Category C or D, where the allowable stress design wind speed, V_{asd}, is 110 miles per hour or greater.)

Description of structural wood and cold-formed steel light frame construction main windforce-resisting system subject to special inspections for wind resistance:
(Required for systems noted in IBC Section 1705.11.1 and 1705.11.2).

Description of windforce-resisting components subject to special inspections for wind resistance:
(Required for systems and components noted in IBC Section 1705.11.3)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certification& Lab Reports
1704.2.5 Inspection of Fabricators			
Pre-cast concrete	A, C, E		
Structural steel construction	C, F, G		
Wood construction	A		
Cold formed metal construction	A		
1705.2, 1705.10, 1705.11& 1705.12 Steel Construction			
Verification of welding consumables, filler metals, procedure specifications, procedure qualification records and personnel performance qualification records			C, F
Nondestructive testing of welding	G	G	
Inspection of welding	C, F	C, F	
Verification of fabricator and erector documents as listed in AISC 360, chapter N, paragraph 3.2			A, C
Material verification of weld filler materials			C, F
Inspection of high strength bolting and steel frame joint details		A, C	
Inspection of embedment		A, C, F	
Inspection of steel elements of composite construction		A, C, F	
Verification of reinforcing steel, cold formed steel deck and truss materials			A, C, F
Inspection of reinforcing steel, cold formed steel deck and trusses		A, C	
1705.3 & 1705.12 Concrete Construction			
Reinforcing placement, cast-in-place bolts, post installed anchors concrete and shotcrete placement and curing operations. Inspection of formwork for shape, location, and dimensions.		A, C, H	
Pre-stressing steel installation		A, C, D, E	
Erection of pre-cast concrete members		A, C, H	
Concrete field sampling and field testing		A, J	
Concrete strength testing		P	
Review certified mill reports			A, C
Verify use of required design mix		A, I, J, H, C	
Pre-stressed (pre-tensioned) concrete force application	A, C, E		
Post-tensioned concrete force application		A, C, D	
Review of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		A, C, D, H	
Reinforcing steel weldability, reinforcing welding, weld filler material		C, F	
Testing of welding of reinforcing steel		G	
1705.4 Masonry			
Verification of f'm and f'AAC		A, C, L, M	
Mortar joint construction, grout protection and placement, materials proportion, type/size/location of reinforcement, structural elements, anchorage, and connectors		A, C, K	
Sampling/testing of grout/mortar specimens		A, C, L, M	
Observe preparation of masonry prisms for testing of compressive strength of masonry, f'_m and f'_{AAC}		A, C, K, L, M	
Inspection of welding of reinforcing steel		C, F	
Testing of welding of reinforcing steel		G	
1705.6 & 1804 Soils			
Observe site preparation, fill placement testing of compaction for compliance with the construction documents for the project		A, C, I, N	
Observe test bearing materials below shallow foundations for ability to achieve design bearing capacity		A, C, I, N (Level III)	
Review compaction testing for compliance with the construction documents for the project			A
1705.5, 1705.10, 1705.11 & 1705.12 Wood Construction			
Observe structural panel sheathing, size of framing members, nail or staple diameter and length, number of fastener lines, and spacing of fastener lines and fasteners for compliance with construction documents for the project		A	
Observe temporary and permanent truss member restraint/bracing, field gluing of elements. Observe bolting, anchoring or other fastening of: shear walls, diaphragms, drag struts, braces and hold-downs		A	

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certification& Lab Reports
1705.7, 1705.8, 1705.9 & 1810 Pile and Pier Foundations			
Observe installation		A, N	
Observe load tests		A	
1705.13 Sprayed Fire-Resistant Materials			
Observe surface conditions, application, average thickness and density of applied material, and cohesive/adhesive bond		A, C	
1705.14 Mastic and Intumescent Fire-Resistant Coatings			
Observe application compliance with AWCI 12-B		A, C	
1705.15 Exterior Insulation and Finish Systems			
Inspect EIFS systems		A, B, C, O	
1705.1 Special Cases			
Work of unusual or special nature		A, B, O	
1705.16 Fire-Restraint Penetrations and Joints	*See Requirements of IBC Sections 1705.16.1 and 1705.16.2*		
1705.17 Smoke Control	*See Requirements of IBC Section 1705.17.2*		
1705.10, 1705.11 & 1705.12 Seismic and Wind Resistance			
Periodic inspection of fabrication, installation and/or anchorage of building systems and components		A	

KEY:
A. Georgia Professional Engineer (GA PE) competent in the specific task area or graduate of accredited engineering/engineering technology program under the direct supervision of a GA PE.
B. Georgia Registered Architect (GA RA) or graduate of accredited architecture/architecture technology program under the direction of a GA RA.
C. International Code Council (ICC) Special Inspector Certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
D. Post-tensioning Institute (PTI) Certification, Level 2, bonded or unbonded as applicable.
E. Pre-stressed Concrete Institute (PCI) Certified Inspector.
F. American Welding Society (AWS) Certified Welding Inspector (CWI) or AWS Certified Associate Welding Inspector working under the direct on-site supervision of a CWI.
G. American Society for Nondestructive Testing (ASNT) Level II certification, or a Level III certification if previously certified as a Level II in the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
H. American Concrete Institute (ACI) Concrete Construction Special Inspector.
I. National Institute for Certification in Engineering Technologies (NICET) Level II or higher certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
J. ACI Concrete Field Testing Technician with Grade 1 certification.
K. Georgia Concrete and Products Association (GC&PA) – Masonry Association of Georgia (MAG) Masonry Construction Inspector Certification.
L. National Concrete Masonry Association (NCMA) Concrete Masonry Testing Procedures certification.
M. GC&PA – MAG Masonry Testing Technician certification.
N. NICET Certified Engineering Technologist (CT).
O. Other Qualified Special Inspector as approved by the Building Official.
P. American Concrete Institute (ACI) Strength Testing Technician.

Notes:
1. The Special Inspector shall meet one of the minimum qualifications listed for the applicable Category of Testing and Inspection.
2. Materials testing shall be done by an Approved Testing Agency meeting the requirements of IBC Section 1703 and ASTM E 329.

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PRINT RECORD

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Checked By HJ
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Sheet Title
SPECIAL INSPECTIONS

Sheet No.
S-0.03

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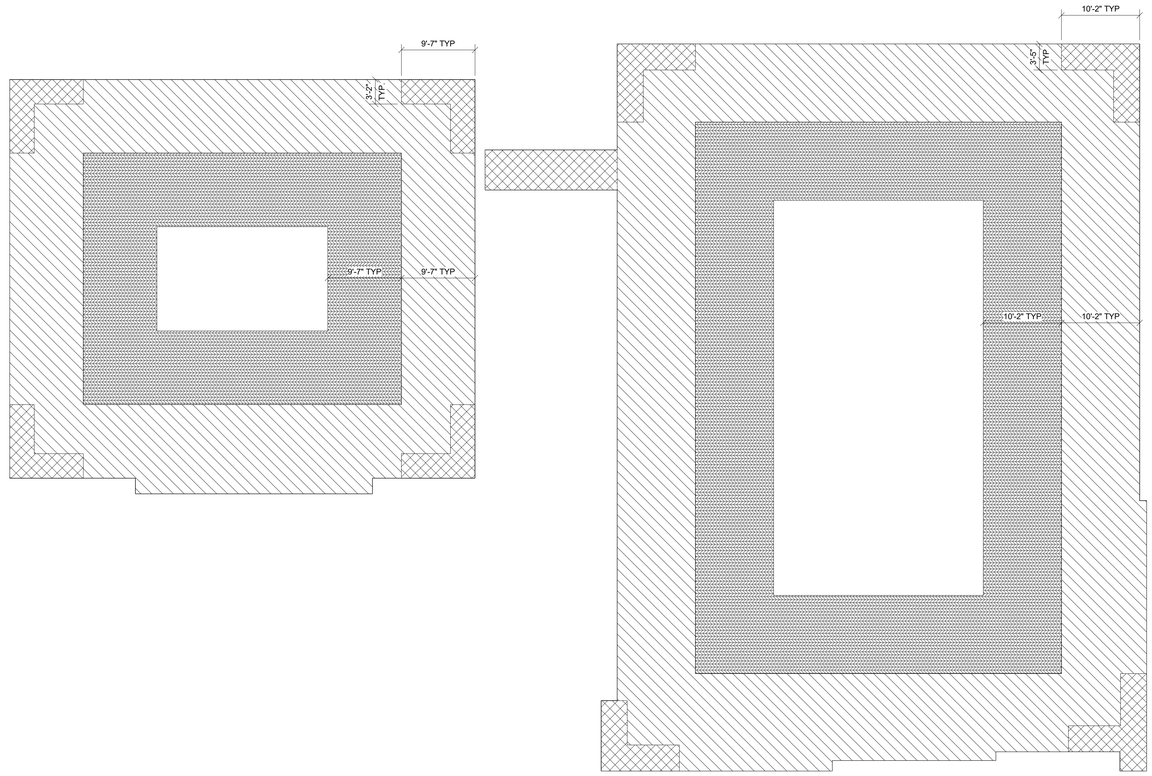

COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE SCHEDULE (PSF)											
EFFECTIVE WIND AREA	ROOF				ROOF OVERHANG			WALL		PARAPET	
	ZONE 1'	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5 (NOTE 2)	ZONE 2	ZONE 3 (NOTE 2)
25 SF	-29.5/+16.0	-46.9/+16.0	-62.0/+27.4	-62.0/+27.4	-45.3	-55.1	-55.1	-30.2/+27.8	-35.9/+27.8	-49.8/+82.7	-55.7/+82.7

SCHEDULE NOTES:
1. (+) AND (-) SIGNS INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACE, RESPECTIVELY.
2. PRESSURES APPLY **AT DISTANCE INDICATED IN DIAGRAM** FROM PROMINENT BUILDING CORNER IN EACH DIRECTION.
3. JOIST MANUFACTURER MAY DEVELOP WIND PRESSURES BASED ON LARGER TRIBUTARY AREAS, DEAD LOAD FOR UPLIFT CALCULATION TO BE 5 PSF.

ABBREVIATIONS

ABT	ABOUT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL/ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
C/C	CENTER TO CENTER
CALC	CALCULATION(S)
CHKD	CHECKED
CIP	CAST-IN-PLACE CONCRETE
CJ	CONSTRUCTION CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR, CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER
CTRD	CENTERED
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DL	DEAD LOAD
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE, GAUGE
GALV	GALVANIZED (HOT DIP)
GRTG	GRATING
(H)	HORIZONTAL BEAM ORIENTATION
HCA	HEADED CONCRETE ANCHOR
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HSB	HIGH STRENGTH BOLT
IF	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INT	INTERIOR
JT	JOINT
K	KIP(S)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
(LLH)	LONG LEG HORIZONTAL (ANGLE)
(LLV)	LONG LEG VERTICAL (ANGLE)
(LSH)	LONG SIDE HORIZONTAL (HSS)
(LSV)	LONG SIDE VERTICAL (HSS)
LB	POUND
LF	LINEAR FEET
LL	LIVE LOAD
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LWC	LIGHT WEIGHT CONCRETE
M	MOMENT
MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MFC	MANUFACTURED
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
N&F	NEAR AND FAR
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO/NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSH	OVERSIZED HOLE
PCF	POUNDS PER CUBIC FOOT
PE	PROFESSIONAL ENGINEER
PERIM	PERIMETER
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RET	RETURN
REV	REVISION
RO	ROUGH OPENING
RTU	ROOFTOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SPCS	SPACES
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SSH	SHORT SLOTTED HOLE
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T/O	TOP OF
THK	THINK
THRU	THROUGH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
W/O	WITHOUT
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC

2 S-0.04 ABBREVIATIONS
3/4" = 1'-0"

STEEL COLUMN/FOOTING TYPE INDICATOR

COL SIZE STEEL COLUMN SIZE
BP-X BASE PLATE MARK
F.X.X (-0'-0") FOOTING MARK (T/FTG ELEVATION)
P-X (-0'-0") PEDESTAL MARK (T/PEDESTAL ELEVATION)

FOUNDATION STEP INDICATOR

(-x'-x") T/FOOTING ELEVATION
(-x'-x") T/FOOTING ELEVATION

OPENING IN FLOOR OR ROOF

RECESS/DEPRESSION INDICATOR

STRUCTURAL STEEL CONNECTION AXIAL FORCE

(xxk)

SLOPE INDICATOR

Y
X

CONCRETE SLAB/METAL DECK SPAN INDICATOR

STRUCTURAL STEEL MOMENT CONNECTION

STRUCTURAL STEEL BEAM DESIGNATION

W8x10 (XX) c=x"
(XXk) (XXk)

BEAM SIZE
NUMBER OF STUDS UNIFORMLY SPACED ALONG BEAM
BEAM CAMBER
BEAM SERVICE REACTION

STRUCTURAL STEEL BEAM SPLICE DESIGNATION

CL SPLICE

STRUCTURAL CONCRETE BEAM DESIGNATION

CB XXX PB XXX

CBX INDICATES CONVENTIONALLY REINFORCED CONCRETE BEAM MARK BEAM WIDTH MAY VARY BASED UPON EDGE OF SLAB DIMENSION

PBX INDICATES POST-TENSIONED CONCRETE BEAM MARK, BEAM WIDTH MAY VERY BASED UPON EDGE OF SLAB DIMENSION

1 S-0.04 STRUCTURAL LEGEND
3/4" = 1'-0"

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ABBREVIATIONS, WIND DIAGRAM & LEGEND

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SECTION 013330
STRUCTURAL SUBMITTALS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Structural submittals include shop drawings, design calculations, diagrams, illustrations, schedules, performance charts, nomenclature charts, samples, brochures and other data prepared by the Contractor or any subcontractor, manufacturer, supplier, fabricator, or distributor and which illustrate some portion of the Project.

B. Submittals by the Contractor are not a part of the Contract Documents.

1.2 RELATED SECTIONS

A. Section 01 33 00 - Submittals

1.3 SUBMITTAL PROCEDURES

A. Prior to the initial submittal, Contractor shall submit to the Design Professional a completed Submittal Information and Schedules form given in Appendix I.

B. Submittals shall be accompanied by a transmittal letter with the following information:
1. Project name.
2. Contractor's name.
3. Date submitted.
4. Description of items submitted; identify work and product by Specification Section.
5. Number of drawings and other pertinent data.

C. Provide blank space on each submittal for the Design Professional's review stamp.

D. The type and number of submittals for each item shall be in accordance with Section 013000.

E. Contractor shall direct specific attention on the submittal to any deviation from the Contract Documents.

1.4 CONTRACTOR RESPONSIBILITY

A. Contractor shall make all submittals in advance of installation or construction to allow the Design Professional sufficient time for review.

B. Contractor shall stamp and sign each sheet of shop drawings and product data, and sign or initial each sample to certify compliance with requirements of Contract Documents. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.

C. Contractor shall understand that the submittal of the required documents does not constitute compliance with the requirements of the Contract Documents; only submittals reviewed by the Design Professional constitute compliance.

D. It is the Contractor's responsibility to furnish equipment, materials, and labor for the Project which meets the requirements of the codes and authorities quoted as well as the Contract Documents. Proprietary items specified herein only establish a minimum functional and aesthetic standard and it is incumbent upon the Contractor to ascertain conformance of these proprietary items or any proposed substitution with the codes and authorities.

E. By reviewing, approving and submitting shop drawings, product data, or samples, Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, member sizes catalog numbers, and similar data and that he has checked and coordinated shop drawings with the requirements of the Project and of the Contract Documents.

F. Work requiring shop drawings, whether called for by the Contract Documents or requested by the Contractor, shall not commence until the submission has been reviewed by the Design Professional. Work may commence if the Contractor verifies the accuracy of the Design Professional's corrections and notations and complies with them without exception and without requesting change in Contract Sum or Contract Time.

1.5 DESIGN PROFESSIONAL REVIEW

A. Design Professional will review submittals with reasonable promptness.

B. Design Professional's review or corrections refer only to the general arrangement and conformance of the subject of the submittals with the design concept of the project and with the information given in the Contract Documents. Under no conditions should the Contractor consider the review to include the dimensions, quantities, and details of the items nor the approval of an assembly in which the item functions.

C. Design Professional's review shall not relieve the Contractor from responsibility for errors or omissions in the submittals.

D. Design Professional's review of submittals shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents unless the Contractor has directed specific attention to the deviation at the time of submission and the Design Professional has given written approval to the specific deviation.

E. Design Professional's review of submittals shall not be construed as authorizing any change in the Contract Sum or Contract Time.

1.6 SHOP DRAWINGS

A. Present in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail of Contract Documents.

B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.

C. Identify field dimensions; show relationship to adjacent or critical features of Work or products.

D. A copy of the marked structural shop drawings with the Design Professional's review stamp is to be maintained at the job site.

1.7 PRODUCT DATA

A. Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Specification Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.

B. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information which is not applicable.

C. Provide manufacturer's preparation, assembly, and installation instructions.

1.8 SAMPLES

A. Submit full range of manufacturer's standard finishes except where more restrictive requirements are specified, indicating colors, textures, and patterns.

B. Submit samples to illustrate functional characteristics of products, including parts and attachments as required by Design Professional.

C. Approved samples which are of proper size may be incorporated in Work.

D. Label each sample with identification.

E. Field Finishes: Provide full samples at Project, at location acceptable to Design Professional, as required by individual Specification Section. Install each sample complete and finished. Acceptable finishes in place may be retained in completed work.

1.9 RESUBMITTALS

A. When submittals are returned to the Contractor with the Design Professional's corrections the Contractor shall make the required corrections. Upon request, resubmit one corrected set.

B. Contractor shall direct specific attention on the resubmittal to all revisions including those requested by the Design Professional on previous submission.

1.10 DISTRIBUTION

A. Distribute reproductions of shop drawings, copies of product data, and samples which bear the Design Professional's review stamp to job site file, Record Documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.

B. Work shall be in accordance with and performed from the reviewed drawings.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTIONAPPENDIX I

SUBMITTAL INFORMATION AND SCHEDULES

PROJECT __________
CONTRACTOR __________
CONTRACTOR'S ADDRESS __________
PROJ. MANAGER __________
PHONE __________
FAX __________
SUPERINTENDENT __________
PHONE __________
FAX __________
MOBILIZATION DATE __________

PROJECTED SUBMITTAL DATES

FOUNDATION, CONCRETE & REINFORCING		STRUCTURAL STEEL		MASONRY	
SUBMITTAL	DATE	SUBMITTAL	DATE	SUBMITTAL	DATE
Site Preparation & Equipment Information		Fabricator / Erector Qualifications		Grout & Mortar Mix	
Concrete Mix Design		Anchor Bolt & Embedded Items		Block Prism & Comp. Strength	
Foundation Reinforcing		Erection & Detail Drawings		Reinforcing	
				Written Procedures	
		Joists			
		Deck		WOOD	DATE

REMARKS: __________

COMPLETED BY __________ DATE __________

END OF APPENDIX I

SECTION 014525
STRUCTURAL TESTING/INSPECTION AGENCY SERVICES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section summarizes the responsibility of the Contractor and the Structural Testing/Inspection Agency in the performance of the testing/inspection specified in the Contract Documents.

B. Neither the observation of the Design Professional in the administration of the contract, nor tests/inspections by the Testing/Inspection Agency, nor approvals by persons other than the Design Professional shall relieve the Contractor from his obligation to perform the work in accordance with the Contract Documents.

1.2 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014000 - Quality Control Services.

1.3 REFERENCES

A. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.

B. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.

C. American Council of Independent Laboratories - Recommended Requirements for Independent Laboratories Qualifications.

1.4 SELECTION AND PAYMENT

A. Owner will employ and pay for the structural testing/inspection services that are required by the Contract Documents.

B. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with Contract Documents due to negligence or nonconformance.

C. Contractor shall pay for any additional structural testing/inspection required for his convenience.

D. Qualifications: Minimum Special Inspector qualifications shall be per Table 1704.2 of 2022 Georgia State Amendments to the International Building Code (2018 Edition).

1.5 STRUCTURAL TESTING/INSPECTION REQUIREMENT SUMMARY

A. Specific structural testing/inspection requirements are given in the following specification sections:

Specification 03 1000 - Concrete Formwork Inspection
Specification 03 2000 - Concrete Reinforcement Inspection
Specification 03 3000 - Concrete Testing/Inspection
Specification 03 6200 - Non-Shrink Grout Inspection

Specification 04 2200 - Masonry Testing/Inspection

Specification 05 1000 - Structural Steel Inspection
Specification 05 2000 - Steel Joist Inspection
Specification 05 3000 - Metal Deck Inspection

1.6 STATEMENT OF SPECIAL INSPECTIONS

A. Provide testing/inspection required to meet the provisions of the Schedule of Special Inspection Services indicated in the contract documents.

PART 2 - MATERIALS

Not Used.

PART 3 - EXECUTION

3.1 STRUCTURAL PRECONSTRUCTION MEETING

A. A structural preconstruction meeting may be conducted at the construction site by the Design Professional to discuss quality issues. The parties involved may be the Design Professional, Contractor, Structural Testing/Inspection Agency, appropriate subcontractors, suppliers, and detailers.

3.2 STRUCTURAL TESTING/INSPECTION AGENCY'S RESPONSIBILITIES

A. Cooperate with the Contractor and provide timely service.

B. Upon arriving at the construction site, sign in and notify the Contractor of presence.

C. Select the representative samples that are to be tested/ inspected.

D. Perform tests/ inspections as outlined in Contract Documents, the applicable codes, and as directed by the Design Professional.

E. Report work and materials not complying with Contract Documents immediately to the Contractor and Design Professional.

F. Leave copies of field notes with the Contractor prior to leaving the construction site. Field notes shall include the message given to the Contractor, date, time of message, name of Contractor's representative informed, type and location of work or materials tested/inspected, whether the work or materials complies with Contract Documents and name of the Structural Testing/Inspection Agency's representative.

G. Report and distribute results of tests/inspections promptly in the form of written reports as directed by the Design Professional.

H. Structural Testing/Inspection Agency shall not alter requirements of Contract Documents, approve or reject any portion of the work, or perform duties of the Contractor.

3.3 CONTRACTOR'S RESPONSIBILITIES

A. Provide copy of Contract Documents to the Structural Testing/Inspection Agency.

B. Arrange the preconstruction meeting to discuss quality issues.

C. Notify the Structural Testing/Inspection Agency sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.

D. Cooperate with Structural Testing/Inspection Agency and provide access to work.

E. Provide samples of materials to be tested in required quantities.

F. Furnish copies of mill test reports when requested.

G. Provide storage space for Structural Testing/Inspection Agency's exclusive use, such as for storing and curing concrete testing samples.

H. Provide labor to assist the Structural Testing/Inspection Agency in performing tests/inspections.

3.4 OPTIONS

A. If the Structural Testing/Inspection Agency is located at such a distance from the project that travel expenses will be a consideration, or if the amount of sampling performed is minor, and by mutual agreement of the Design Professional and Contractor, the Contractor may be requested to take samples and forward them to the Structural Testing/Inspection Agency for testing/inspection.

END OF SECTION

SECTION 031000
CONCRETE FORMWORK

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section includes the design and erection of formwork, shoring and reshoring for cast-in-place concrete and accessories.

1.2 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 032000 - Concrete Reinforcement.

C. Section 033000 - Cast-in-Place Concrete.

1.3 REFERENCES

A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.

B. ACI 301 - Standard Specifications for Structural Concrete.

C. ACI 318 - Building Code Requirements for Structural Concrete.

D. ACI 347 — Guide to Formwork for Concrete.

E. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).

F. ASTM E154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.

1.4 SUBMITTALS

A. Product Data: For each of the following:
1. Exposed surface form-facing material.
2. Concealed surface form-facing material.
3. Form ties.
4. Isolation joint filler.
5. Inserts.
6. Form-release agent.

B. Shop Drawings: Prepared by, and signed and sealed by, a qualified professional engineer responsible for their preparation, detailing fabrication, assembly and support of forms.
1. For exposed vertical concrete walls, indicate dimensions and form tie locations.
2. Indicate dimension and locations of construction and movement joints required to construct the structure in accordance with ACI 301.
 a. Location of construction joints is subject to approval of the Architect.
3. Indicate form liner layout and form line termination details.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Concrete Formwork: Design, engineer, erect, shore and brace, and maintain formwork, shores, and reshores in accordance with ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads, so that resulting concrete conforms to the required shapes, lines, and dimensions.
1. Design wood panel forms in accordance with APA's "Concrete Forming Design/Construction Guide."
2. Design formwork to limit deflection of form-facing material to I/360 of center-to-center spacing of supports.

2.2 FORM-FACING MATERIALS

A. As-Cast Surface Form-Facing Material:
1. Provide continuous, true, and smooth concrete surfaces.
2. Furnish in largest practicable sizes to minimize number of joints.
3. Acceptable Materials: As required to comply with Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete, and as follows:
 a. Plywood, metal, or other approved panel materials.
 b. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
  1) APA HDO (high-density overlay).
  2) APA MDO (medium-density overlay); mill-release agent treated and edge sealed.
  3) APA Structural 1 Plyform, B-B or better; mill oiled and edge sealed.
  4) APA Plyform Class I, B-B or better; mill oiled and edge sealed.

B. Concealed Surface Form-Facing Material: Lumber, plywood, metal, plastic, or another approved material.
1. Provide lumber dressed on at least two edges and one side for tight fit.

2.3 FORMWORK ACCESSORIES

A. Formwork accessories that are embedded in concrete, including ties and hangers, shall be commercially manufactured products. Do not use nonfabricated wire form ties.

2.4 FORM RELEASE AGENT

A. Form release agent shall not bond with, stain, nor adversely affect concrete surfaces and does not impair subsequent treatments of concrete surfaces.
1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
2. Form release agent for form liners shall be acceptable to form liner manufacturer.

2.5 FORM TIES

A. Factory-fabricated, removable or snap-off, glass-fiber-reinforced plastic or metal form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
1. Furnish units that leave no corrodible metal closer than 1 inch (25 mm) to the plane of exposed concrete surface.
2. Furnish ties that, when removed, leave holes no larger than 1 inch (25 mm) in diameter in concrete surface.
3. Furnish ties with integral water-barrier plates to walls indicated to receive dampproofing or waterproofing.

2.6 DOVETAIL ANCHORS

A. Dovetail anchors shall consist of 24 gage galvanized steel dovetail anchoring slots with filler strips and 16 gage galvanized dovetail anchors, unless otherwise noted on Drawings.

2.7 VAPOR BARRIER

A. Vapor barrier shall consist of polyethylene sheet. See Architect for thickness.

2.8 ISOLATION JOINT FILLER

A. Asphalt impregnated premolded fiberboard isolation joint filler shall conform with ASTM D1751 and be 1/2-inch thick by full thickness of slab or joint, unless indicated otherwise on the Drawings.

2.9 CONSTRUCTION JOINTS

A. Provide key type steel forms by Vulcan screed joints, Burke Keyed Kold joint form or Form-A-Key.

PART 3 - EXECUTION

3.1 INSTALLATION OF FORMWORK

A. Comply with ACI 301.

B. Construct formwork, so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 and to comply with the Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete" for as-cast finishes.

C. Limit concrete surface irregularities as follows:
1. Surface Finish-1.0: ACI 117 Class C, 1/2 inch (12 mm).
 a. To be used on concrete surfaces not exposed to view.
2. Surface Finish-2.0: ACI 117 Class B, 1/4 inch (6 mm).
 a. To be used on concrete surfaces exposed to view.

D. Construct forms tight enough to prevent loss of concrete mortar.
1. Minimize joints.
2. Exposed Concrete: Symmetrically align joints in forms.

E. Construct removable forms for easy removal without hammering or prying against concrete surfaces.
1. Provide crush or wrecking plates where stripping may damage cast-concrete surfaces.
2. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
3. Install keyways, reglets, recesses, and other accessories, for easy removal.

F. Do not use rust-stained, steel, form-facing material.

G. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces.
1. Provide and secure units to support screed strips
2. Use strike-off templates or compacting-type screeds.

H. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible.
1. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar.
2. Locate temporary openings in forms at inconspicuous locations.

I. Chamfer exterior corners and edges of permanently exposed concrete. Provide 3/4-inch chamfer at all corners.

J. At construction joints, overlap forms onto previously placed concrete not less than 12 inches.

K. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work.
1. Determine sizes and locations from trades providing such items.
2. Obtain written approval of Architect prior to forming openings not indicated on Drawings.

L. Construction and Movement Joints:
1. Construct joints true to line with faces perpendicular to surface plane of concrete.
2. Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Design Professional.
3. Place joints perpendicular to main reinforcement.
4. Locate joints for beams, slabs, joists, and girders in the middle third of spans.
 a. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
5. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
6. Space vertical joints in walls per Specification 033000 Cast-In-Place Concrete.
 a. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
7. Provide construction joints in accordance with ACI 318.
8. Provide 1 1/2-inch-deep key type construction joints at end of each placement for slabs, beams, walls, and footings. Bevel forms for easy removal.
9. Remove loose particles and latency from surface prior to placing the next lift. Chip the surface to a depth sufficient to expose sound concrete.

M. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection.
1. Locate ports and openings in bottom of vertical forms, in inconspicuous location, to allow flushing water to drain.
2. Close temporary ports and openings with tight-fitting panels, flush with inside face of form, and neatly fitted, so joints will not be apparent in exposed concrete surfaces.

N. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

O. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

P. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement. Do not allow excess form release agent to accumulate in forms or come in contact with concrete surfaces against which fresh concrete will be placed.

3.2 CAMBER

A. Camber formwork for slabs and beams to compensate for anticipated deflections in formwork prior to hardening of concrete to maintain tolerances specified by ACI 117.

B. Set screeds to a like camber to maintain specified concrete thickness.

3.3 FOUNDATION ELEMENTS

A. Form foundation elements if soil or other conditions are such that earth trench forms are unsuitable.

B. Sides of exterior turned-down slabs shall be formed.

C. Maintain minimum coverage of reinforcing steel as indicated on Structural Drawings.

3.4 INSTALLATION OF EMBEDDED ITEMS

A. Set and secure embedded plates, bearing plates, and anchor bolts in accordance with approved setting drawings and in such a manner to prevent displacement during placement of concrete.

B. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC 303.

C. Install and secure in position required inserts, hangers, sleeves, anchors, and nailers.

D. Install continuous vertical dovetail anchoring slots with filler strips at intersections of concrete and masonry walls unless indicated otherwise by the Drawings.

E. Clean embedded items immediately prior to concrete placement.

3.5 VAPOR BARRIER

A. Where indicated on Drawings, place vapor barrier over sewer, piping, and granular subbase, but below conduits and ducts, and behind insulation and expansion joints at sidewalls.

B. Lap vapor barrier six inches minimum at splices.

C. Do not puncture vapor barrier.

3.6 REMOVING AND REUSING FORMS

A. Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F (10 deg C) for 24 hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations and curing and protection operations need to be maintained.
1. Leave formwork for beam soffits, joists, slabs, and other structural elements that support weight of concrete in place until concrete has achieved at least 70 percent of its 28-day design compressive strength.
2. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.

B. Clean and repair surfaces of forms to be reused in the Work.
1. Split, frayed, delaminated, or otherwise damaged form-facing material are unacceptable for exposed surfaces.
2. Apply new form-release agent.

C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints.
1. Align and secure joints to avoid offsets.
2. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

3.7 SHORING AND RESHORING INSTALLATION

A. Comply with ACI 318 and ACI 301 for design, installation, and removal of shoring and reshoring.
1. Do not remove shoring or reshoring until measurement of slab tolerances is complete.

B. Plan sequence of removal of shores and reshore to avoid damage to concrete. Locate and provide adequate reshoring to support construction without excessive stress or deflection.

3.8 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

C. Inspections:
1. Inspect formwork for shape, location, and dimensions of the concrete member being formed.
2. Inspect insulating concrete forms for shape, location, and dimensions of the concrete member being formed.

END OF SECTION

SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section includes cast-in-place concrete work indicated in the Contract Documents or otherwise required for proper completion of the work.

1.2 RELATED SECTIONS

A. Section 013300 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 031000 - Concrete Formwork.

D. Section 032000 - Concrete Reinforcement.

E. Section 036200 - Non-Shrink Grout.

1.3 REFERENCES

A. ACI 301 - Specifications for Structural Concrete for Buildings.

B. ACI 318 - Building Code Requirements for Structural Concrete.

C. ASTM C31 - Standard Practice for Making and Curing Concrete Test Specimens in the Field.

D. ASTM C33 - Standard Specification for Concrete Aggregates.

E. ASTM C39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.

F. ASTM C94 - Standard Specification for Ready-Mixed Concrete.

G. ASTM C138 - Standard Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete.

H. ASTM C143 - Standard Test Method for Slump of Hydraulic Cement Concrete.

I. ASTM C150 - Standard Specification for Portland Cement.

J. ASTM C172 - Standard Practice for Sampling Freshly Mixed Concrete.

K. ASTM C173 - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.

L. ASTM C230 - Standard Specification for Flow Table or Use in Tests of Hydraulic Cement.

M. ASTM C260 - Standard Specification for Air-Entraining Admixtures for Concrete.

N. ASTM C494 - Standard Specification for Chemical Admixtures for Concrete.

O. ASTM C595 — Standard Specification for Blended Hydraulic Cements.

P. ASTM C618 - Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete.

Q. ASTM E1155 - Standard Test Method for Determining Floor Flatness and Levelness Using the F-Number System.

R. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.

1.4 NOTICE

A. Notify Design Professional and Structural Testing/Inspection Agency not less than 48 hours prior to placing concrete.

1.5 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Examine concrete in truck to verify that concrete appears properly mixed.
2. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
3. Concrete testing: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu yd. plus one sample for each additional 100 cu. yd.
 a. At a minimum, obtain 5 compressive strength tests for each concrete mixture per ACI 318.
4. Per composite sample taken, mold four standard cured specimens per set for compressive strength testing. For each set molded, record:
 a. Slump
 b. Air content
 c. Unit weight
 d. Temperature, ambient and concrete
 e. Location of placement
 f. Any pertinent information, such as addition of water, addition of admixtures, etc.
5. Test concrete slabs for specified flatness and levelness in accordance with ASTM E1155. As a minimum, test three placements: the first placement and two additional placements as directed by the Design Professional. If the tested placement does not meet the specified overall values, test the next placement.

B. The ready-mixed concrete plant shall be certified for conformance with the requirements of the National Ready Mix Concrete Association.

C. Installer qualifications: Installer shall be experienced in placing concrete systems similar in complexity to this project as evidenced by 10 completed projects.

D. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required in Specification 01 4525.

1.6 CONCRETE MIX DESIGN

A. Establish concrete mix design proportions in accordance with ACI 318, Chapter 19 and 26 for each concrete strength noted on the contract drawings.

B. Submit concrete mix designs. Include the following:
1. Type and quantities of materials.
2. Slump.
3. Air content.
4. Fresh unit weight.
5. Aggregates sieve analysis.
6. Design compressive strength.
7. Location of placement in structure.
8. Method of placement.
9. Method of curing.
10. Seven-day and 28-day compressive strengths.

C. Concrete supplier shall submit certifications that the materials used meet applicable ASTM Specifications. Mix designs not conforming to the above will be rejected.

D. Limits on cementitious material substitutes in concrete mix design:
1. Fly ash (ASTM C618) 25%
2. Slag Cement (ASTM C989) 30%
3. Total of Fly Ash plus Slag Cement 40%

1.7 SLUMP

A. Design concrete with a maximum slump of five inches.

B. If a slump greater than five inches is desired it shall be achieved with a high-range water reducer. Design the concrete mix with a high range water reducer slump of two and one-half inches plus or minus one and one-half inches. The maximum slump after high-range water reducers are added shall be eight inches.

1.8 FRESH UNIT WEIGHT

A. Normal weight concrete shall have a fresh unit weight of 140 to 152 pcf.

1.9 AIR CONTENT

A. No entrained air content is required in concrete placed in the foundation.

B. Provide entrained air content per the table below and exposure category specified on structural drawings. Tolerance on air content as delivered shall be +/-1.5 percent.

Nominal maximum aggregate size, in.*	Air Content, percent	
	Exposure Class F1	Exposure Classes F2 and F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5

* See ASTM C33 for tolerance on oversize for various nominal maximum size designations.

1.10 WATER/CEMENT RATIO

A. Concrete elements shall have a maximum water cement ratio of 0.50, unless noted otherwise.

B. Air entrained concrete elements shall have a maximum water cement ratio of 0.45.

C. Concrete elements within an aggressive environment (Exposure Class F2) shall have a maximum water/cement ratio of 0.45.

1.11 SUBMITTALS

A. Submit a concrete mix design as specified above for each type of concrete included in the work.

B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced.

C. Submit manufacturer's data including Product Data and installation instructions for the following items. Manufacturer's Data shall include the name of the manufacturer and date of the publication. All manufacturers' data shall be maintained at the project site by the contractor.
1. Admixtures
2. Curing materials
3. Joint sealing materials
4. Expansion joint filler
5. Patching compounds
6. Bonding agents

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials designated by specific manufacturer's trade names are approved, subject to compliance with the quality and performance indicated by the manufacturer. Instructions and specifications, published by the manufacturer of such materials are included in and are a part of these specifications. Upon request, provide certification from manufacturer or supplier that materials designated by reference to ASTM and ACI standards meet the requirements of these standards.

2.2 CONCRETE STRENGTH

A. Provide concrete strengths indicated on the Structural Drawings.

2.3 CEMENTITIOUS MATERIALS

A. Portland cement shall conform to ASTM C150, Type I.

B. Blended Hydraulic Cement shall conform to ASTM C595, Type IL.

C. Fly Ash shall conform to ASTM C618, Class C or F.
1. Class F fly ash shall have a loss on ignition of less than five percent.
2. Class C fly ash shall have a loss on ignition of less than one percent.

D. Slag Cement shall conform to ASTM C989, Grade 100 or 120.

2.4 AGGREGATE

A. Fine aggregate shall conform to ASTM C33.

B. Coarse aggregate of gravel or crushed stone shall conform to ASTM C33, Class 3M. Size coarse aggregate in accordance with ACI 318.

2.5 WATER

A. Water shall be potable and free of deleterious substances in accordance with ACI 318.

2.6 AIR ENTRAINING AGENT

A. Air entraining agent shall conform to ASTM C260.

2.7 WATER REDUCER

A. Water reducing agent shall conform to ASTM C494.

2.8 HIGH-RANGE WATER REDUCER

A. High-range water reducers (superplasticizers) shall conform to ASTM C494.

2.9 CHLORIDE

A. Use no chlorides of any form in concrete.

2.10 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.

C. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.
1. Color:
 a. Ambient Temperature Below 50 deg F (10 deg C): Black.
 b. Ambient Temperature between 50 deg F (10 deg C) and 85 deg F (29 deg C): Any color.
 c. Ambient Temperature Above 85 deg F (29 deg C): White.

D. Curing Paper: Eight-feet- (2438-mm-) wide paper, consisting of two layers of fibered kraft paper laminated with double coating of asphalt.

E. Water: Potable or complying with ASTM C1602/C1602M.

F. Clear, Waterborne, Membrane-Forming, Dissipating Curing Compound: ASTM C309, Type 1, Class B.

G. Clear, Waterborne, Membrane-Forming, Nondissipating Curing Compound: ASTM C309, Type 1, Class B, certified by curing compound manufacturer to not interfere with bonding of floor covering].

H. Clear, Waterborne, Membrane-Forming, Curing Compound: ASTM C309, Type 1, Class B, 18 to 25 percent solids, nondissipating, certified by curing compound manufacturer to not interfere with bonding of floor covering].

I. Clear, Solvent-Borne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.

J. Clear, Waterborne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.

2.11 ACCELERATORS

A. Non-chloride accelerators shall conform to ASTM C494.

2.12 RETARDERS

A. Retarders shall conform to ASTM C494.

PART 3 - EXECUTION

3.1 HIGH-RANGE WATER REDUCERS

A. High-range water reducers are to be added at dosage recommended by the manufacturer. The slump of the concrete shall be one to four inches at the time the high-range water reducers are added. Do not permit fresh concrete containing superplasticizers to come in contact with fresh concrete not containing superplasticizers.

3.2 ADDITION OF WATER AT JOB SITE

A. Provide batch tickets indicating the amount of mix water withheld at the batch plant for each load of concrete delivered. Water may be added to the batch only if neither the maximum permissible water/cement ratio nor the maximum slump is exceeded.

B. Water shall not be added to the batch after the required on-site testing has been performed.

3.3 PLACEMENT OF CONCRETE

A. Deposit concrete as near as practical to final position to prevent segregation of concrete.

B. Do not use aluminum equipment in placing and finishing concrete.

C. Place thickened slabs for partitions integral with floor slabs.

D. Prepare place of deposit, mix, convey, place, and cure concrete in accordance with ACI 301 and ACI 318. Wet forms before placing concrete.

E. Concrete Placement
1. Before placing concrete, verify that installation of formwork, reinforcement, embedded items, and vapor retarder is complete and that required inspections are completed.
 a. Immediately prior to concrete placement, inspect vapor retarder for damage and deficient installation, and repair defective areas.
 b. Provide continuous inspection of vapor retarder during concrete placement and make necessary repairs to damaged areas as Work progresses.
2. Notify Architect and testing and inspection agencies 24 hours prior to commencement of concrete placement.
3. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect in writing, but not to exceed the amount indicated on the concrete delivery ticket.
 a. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
4. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301 (ACI 301M), but not to exceed the amount indicated on the concrete delivery ticket.
 a. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
5. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
 a. If a section cannot be placed continuously, provide construction joints as indicated.
 b. Deposit concrete to avoid segregation.
 c. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
 d. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301 (ACI 301M).
  1. Do not use vibrators to transport concrete inside forms
  2. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches (150 mm) into preceding layer.
  3. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.
  4. At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
6. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
 a. Do not place concrete floors and slabs in a checkerboard sequence.
 b. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 c. Maintain reinforcement in position on chairs during concrete placement.
 d. Screed slab surfaces with a straightedge and strike off to correct elevations.
 e. Level concrete, cut high areas, and fill low areas.
 f. Slope surfaces uniformly to drains where required.
 g. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface.
 h. Do not further disturb slab surfaces before starting finishing operations.

3.4 TIME LIMIT

A. Deposit concrete within one and one-half hours after batching.

3.5 FINISHING FORMED SURFACES

A. As-Cast Surface Finishes:
1. ACI 301 Surface Finish SF-1.0: As-cast concrete texture imparted by form-facing material.
 a. Patch voids larger than 1-1/2 inches (38 mm) wide or 1/2 inch (13 mm) deep.
 b. Remove projections larger than 1/2 inch (25 mm).
 c. Tie holes do not require patching.
 d. Surface Tolerance: ACI 117 Class C.
 e. Apply to concrete surfaces not exposed to public view.
2. ACI 301 Surface Finish SF-2.0: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams.
 a. Patch voids larger than 3/4 inch (19 mm) wide or 1/2 inch (13 mm) deep.
 b. Remove projections larger than 1/4 inch (6 mm).
 c. Patch tie holes.
 d. Surface Tolerance: ACI 117 Class B.
 e. Locations: Apply to concrete surfaces exposed to public view.
3. ACI 301 Surface Finish SF-3.0:
 a. Patch voids larger than 3/4 inch (19 mm) wide or 1/2 inch (13 mm) deep.
 b. Remove projections larger than 1/8 inch (3 mm).
 c. Patch tie holes.
 d. Surface Tolerance: ACI 117 Class A.
 e. Locations: Apply to concrete surfaces exposed to public view.

3.6 CURING

A. Begin curing procedures immediately following the commencement of the finishing operation.

B. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
1. Maintain moisture loss no more than 0.2 lb/sq. ft. x h (1 kg/sq. m x h), calculated in accordance with ACI 305.1, before and during finishing operations.

C. Curing Formed Surfaces: Comply with ACI 308.1 as follows:
1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
2. Cure concrete containing color pigments in accordance with color pigment manufacturer's instructions.
3. If forms remain during curing period, moist cure after loosening forms.
4. If removing forms before end of curing period, continue curing for remainder of curing period, as follows:
 a. Continuous Fogging: Maintain standing water on concrete surface until final setting of concrete.
 b. Continuous Sprinkling: Maintain concrete surface continuously wet.
 c. Absorptive Cover: Pre-dampen absorptive material before application; apply additional water to absorptive material to maintain concrete surface continuously wet.
 d. Water-Retention Sheeting Materials: Cover exposed concrete surfaces with sheeting material, taping, or lapping seams.
 e. Membrane-Forming Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
  1. Recoat areas subject to heavy rainfall within three hours after initial application.
  2. Maintain continuity of coating and repair damage during curing period.

D. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:
1. Begin curing immediately after finishing concrete.
2. Interior Concrete Floors:
 a. Floors to Receive Floor Coverings Specified in Other Sections: Contractor has option of the following:
  1. Absorptive Cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
   i. Lap edges and ends of absorptive cover not less than 12-inches (300-mm).
   ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days.
  2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive.
   i. Immediately repair any holes or tears during curing period, using cover material and waterproof tape.
   ii. Cure for not less than seven days.
  3. Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
   i. Water.
   ii. Continuous water-fog spray
 b. Floors to Receive Penetrating Liquid Floor Treatments: Contractor has option of the following:
  1. Absorptive cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
   i. Lap edges and ends of absorptive cover not less than 12 inches.
   ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days.
  2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive.
   i. Immediately repair any holes or tears during curing period, using cover material and waterproof tape.
   ii. Cure for not less than seven days.
  3. Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
   i. Water.
   ii. Continuous water-fog spray.
 c. Floors to Receive Polished Finish: Contractor has option of the following:
  1. Absorptive Cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
   i. Lap edges and ends of absorptive cover not less than 12 inches.
   ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days.
  2. Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
   i. Water.
   ii. Continuous water-fog spray.
 d. Floors to Receive Curing Compound:
  1. Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
  2. Recoat areas subjected to heavy rainfall within three hours after initial application.
  3. Maintain continuity of coating, and repair damage during curing period.
  4. Removal: After curing period has elapsed remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacture unless manufacturer certifies curing compound does not interfere with bonding of floor covering used on Project.
 e. Floors to Receive Curing and Sealing Compound:
  1. Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller in accordance with manufacturer's written instructions.
  2. Recoat areas subjected to heavy rainfall within three hours after initial application.
  3. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating, and repair damage during curing period.

3.7 ENVIRONMENTAL PROVISIONS

A. Hot weather concrete
1. Procedure applies when concrete mix starts to exceed 77 degrees Fahrenheit.
2. Forms, reinforcing steel and subgrade shall be fogged or sprinkled with cool water. prior to concrete in placement.
3. Expedite all elements of the concrete placement.
4. Moist curing shall commence as soon as the surfaces are finished and shall continue for at least seven days.
5. Hot weather concreting shall comply with ACI 305.1.

B. Cold weather concrete

BRAVO BLDG SET 03-23-2026

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1. Procedure applies when a period of more than 3 successive days the average daily air temperature drops below 40 degrees Fahrenheit and stays below 50 degrees for more than one half of any 24-hour period.
2. Provide wind break or heated enclosure to protect freshly placed concrete.
3. During curing protect concrete with polyethylene sheets or insulating blankets for at least seven days.
4. In no instance shall the concrete temperature drop below 50 degrees Fahrenheit prior to stripping forms and reshoring the structure.
5. Cold weather concreting shall comply with ACI 306.1.

C. Protect concrete from drying and excessive temperature for the first seven days.
D. Protect fresh concrete from wind.

3.8 CONTRACTION JOINTS
A. Obtain Design Professional 's approval for location of contraction joints.
B. Do not place contraction joints in framed floors, composite slabs, or shear walls.
C. Place contraction joints in slabs-on-grade as indicated on the Drawings.

3.9 CUTTING CONCRETE
A. Obtain Design Professional's written approval prior to cutting concrete for installation of other work.

3.10 PATCHWORK AND REPAIRS
A. Notify Design Professional of any defective areas in concrete to be patched or repaired. Repair and patch defective areas with non-shrink grout. Cut out defective areas over two inches in diameter to solid concrete, but not less than a depth of one inch. Make edges of cuts perpendicular to the concrete surface.

3.11 JOINT FILLING
A. Prepare, clean, and install joint filler in accordance with manufacturer's written instructions.
1. Defer joint filling until concrete has aged at least three months.
2. Do not fill joints until construction traffic has permanently ceased.
B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joints clean and dry.
C. Install semirigid joint filler full depth in saw-cut joints and at least 2 inches deep in formed joints.
D. Overfill joint, and trim joint filler flush with top of joint after hardening.

3.12 CONCRETE FINISHES
A. Finish concrete in accordance with ACI 301.
B. Finish concrete slabs to flatness and levelness tolerances which correspond to FF 25/FL 20 minimum overall for composite of all measured values and FF 17/FL 12 minimum for any individual floor section.
C. For concrete slabs to receive thin-set flooring, finish to flatness and levelness tolerances which correspond to FF 35/FL 25 minimum overall for composite of all measured values and FF 25/FL 20 minimum for any individual floor section.
D. For concrete slabs to receive wood flooring, finish to flatness and levelness tolerances which correspond to FF 45/FL 30 minimum overall for composite of all measured values and FF 30/FL 20 minimum for any individual floor section.
E. For metal deck construction, floors shall be finished to an FF 25.
F. For shored construction, FL values do not apply if slab is tested after shoring is removed.
G. Slabs, which do not meet the flatness and levelness criteria shall be repaired or replaced.

3.13 FIELD QUALITY CONTROL
A. Special Inspections: Special inspector to perform field tests and inspections and prepare testing and inspection reports.
B. Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
C. For each load delivered, submit three copies of batch delivery ticket to testing agency, indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, design slump at time of batching, and amount of water that can be added at Project site.
D. Inspections:
1. Headed bolts and studs.
2. Verification of use of required design mixture.
3. Concrete placement, including conveying and depositing.
4. Curing procedures and maintenance of curing temperature.
5. Verification of concrete strength before removal of shores and forms from beams and slabs.
6. Batch Plant Inspections: On a random basis, as determined by Architect.
E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172 shall be performed in accordance with the following requirements:
1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture for each 100 cubic yards per Section 1.
a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143:
a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
b. Perform additional tests when concrete consistency appears to change.
3. Slump Flow: ASTM C1611:
a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
b. Perform additional tests when concrete consistency appears to change.
4. Air Content: ASTM C231 pressure method, for normal-weight concrete.
a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
5. Concrete Temperature: ASTM C1064:
a. One test hourly when air temperature is 40 deg F (4.4 deg C) and below or 80 deg F (27 deg C) and above, and one test for each composite sample.
6. Unit Weight: ASTM C138 fresh unit weight of structural concrete.
a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
7. Compression Test Specimens: ASTM C31:
a. Cast and laboratory cure four 6-inch (150 mm) by 12-inch (300 mm) cylinder specimens for each composite sample. If testing agency chooses to use 4 inch by 8 inch cylinders an additional cylinder will be required.
8. Compressive-Strength Tests: ASTM C39.
a. From each set:
1. Test one laboratory-cured specimen at seven days and two specimens at 28 days. Fourth specimen is to be held in reserve.
b. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated. If 4 inch by 8 inch cylinders are used, it shall be from a set of three specimens.
9. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
10. Strength of each concrete mixture will be satisfactory if both of the following conditions are met:
a. Every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength.
b. No compressive-strength test value falls below the specified compressive strength by: more than 500 psi (3.4 MPa) when specified compressive strength is less than or equal to 5000 psi (34.5 MPa) or more than 10 percent of specified compressive strength when the specified compressive strength is greater than 5000 psi (34.5 MPa).
11. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
12. Additional Tests:
a. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
b. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.
F. Measure floor and slab flatness and levelness in accordance with ASTM E1155 within 72 hours of completion of floor finishing and promptly report test results to Architect.

END OF SECTION

SECTION 032000

CONCRETE REINFORCEMENT

PART 1 - GENERAL
1.1 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 031000 — Concrete Formwork
D. Section 033000 — Cast-In-Place Concrete.

1.2 REFERENCES
A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.
B. ACI 301 - Standard Specifications for Structural Concrete.
C. ACI 318- Building Code Requirements for Structural Concrete.
D. ASTM A1064- Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete Reinforcement.
E. ASTM A615- Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
F. ASTM A706- Standard Specification for Low-Alloy Steel Deformed Bars for Concrete Reinforcement.
G. AWS D1.4- Structural Weld Code - Reinforcing Steel.
H. CRSI - Manual of Practice, and Documents 63 and 65.

1.3 SUBMITTALS
A. Shop drawings:
1. Notify Design Professional prior to detailing reinforcing steel shop drawings.
2. Include placing drawings that detail fabrication, bending, and placement. Provide elevations of all wall reinforcement.
3. Include locations of proposed construction joints for approval by EOR. Contractor to submit sequence of placing concrete.
4. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement. Reinforcement detailing of standard hooks, splices and development lengths shall conform to ACI 318 unless noted otherwise on drawings.
5. Include proposed field bending or cutting locations and cutting methods for approval by EOR.
6. Written description of reinforcement without adequate sections, elevations, and details is not acceptable.
7. All revisions to shop drawings shall be clouded.
8. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced.
C. Submit mill test reports
D. Submit manufacturer's data for tensile and compressive splicers.
E. Submit manufacturer's data including installation recommendations for dowel adhesive.

1.4 QUALITY ASSURANCE
A. Coordinate and schedule in a timely manner with the Structural Testing/Inspection Agency the following quality related items:
1. Verify reinforcing steel for quantity, size, location, and support.
2. Verify proper reinforcing steel concrete coverage.
3. Inspect mechanical splice couplers and reinforcement welding.
B. Structural Testing/Inspection Agency shall provide special inspections as required by Chapter 17 of the building code and as required by Specification 014525.
C. The Structural Testing/Inspection Agency shall be qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1.5 STORAGE AND PROTECTING
A. Store reinforcing steel above ground so that it remains clean. Maintain steel surfaces free from materials and coatings which might impair bond.

PART 2 - PRODUCTS
2.1 MATERIALS
A. Deformed reinforcing steel shall conform to ASTM A615, refer to Structural Drawings for grade (Grade 60 minimum).
B. Welded steel wire fabric shall conform to ASTM A1064.

2.2 ACCESSORY MATERIALS
A. Annealed steel tie wire shall be 16-1/2 gage minimum.
B. Bar supports shall be plastic-tipped steel Class I bar supports conforming to CRSI Specifications. Concrete brick may be used to support reinforcement to obtain proper clearance from earth.

2.3 SPLICERS
A. Tensile splicers shall be capable of developing 125% of the reinforcing steel ASTM specified minimum yield strength.
B. Compression splicers shall be the mechanical type such that the compression stress is transmitted by end bearing held in concentric contact.

2.4 DOWEL ADHESIVE
A. Adhesive for reinforcing dowels in existing concrete shall conform to ASTM C881-13, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two component adhesive system contained in side by side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.

PART 3 - EXECUTION
3.1 FABRICATION
A. Fabricate steel in accordance with ACI 318 and CRSI standards.
B. Bend bars cold. Do not heat or flame cut bars. No field bending of bars partially embedded in concrete is permitted, unless specifically approved Design Professional and checked by Testing and Inspection Agency for cracks.
C. Weld only as indicated. Perform welding in accordance with AWS D1.4.
D. Tag reinforcing steel for easy identification.

3.2 INSTALLATION
A. Before placing concrete, clean reinforcement of foreign particles and coatings.
B. Place, support on chairs, and secure reinforcement against displacement in accordance with ACI 318 and CRSI standards. Do not deviate from alignment or measurement. Maximum support spacing shall not exceed 48 inches.
C. Place concrete beam reinforcement support parallel to main reinforcement.
D. Install welded-wire reinforcement in longest practicable lengths.
1. Locate welded wire fabric in the top third of slabs unless otherwise noted in drawings. WWF shall be supported on chairs.
2. Overlap mesh one lap plus two inches at side and end joints. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wires.
3. Support spacing of welded wire reinforcement shall not exceed 24 inches, unless noted otherwise on plans.
E. Furnish and install dowels or mechanical splices at intersections of walls, columns and piers to permit continuous reinforcement or development lengths at such intersections.
F. Maintain cover and tolerances in accordance with ACI and CRSI Specifications, unless indicated otherwise on Structural Drawings.
G. Preserve clearance between bars of not less than 1 inch, not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.
H. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

3.3 INSTALLATION TOLERANCES
A. Comply with ACI 117 for installation tolerances.

3.4 SPLICES
A. Do not splice reinforcement except as indicated on Structural Drawings.
B. Stagger splices in accordance with ACI 318.
C. Tension couplers may be used and installed in accordance with manufacturer's specifications.

3.5 DOWELS IN EXISTING CONCRETE
A. Install dowels and dowel adhesive in accordance with manufacturer's recommendations.
B. Minimum embedment length shall be 12 bar diameters, unless noted otherwise.

END OF SECTION

SECTION 036200

NON-SHRINK GROUT

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section includes non-shrink grout under base plates, bearing plates, and where specified in Contract Documents.

1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.

1.3 REFERENCES
A. ASTM C1107 — Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink).
B. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens).

1.4 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Perform compressive strength tests in accordance with ASTM C109 with 2-inch x 2-inch cubes. Test one cube at three days, two cubes at seven days and three cubes at 28 days. Perform one test for each ten bags of grout used or one test in accordance with day of grouting.

1.5 SUBMITTALS
A. Submit product data sheets for review.

PART 2 - PRODUCTS
2.1 GROUT
A. Provide a non-shrink, non-metallic grout that complies with ASTM C1107.
B. Grout shall have a minimum compressive strength of 5000 psi at 28 days.

2.2 WATER
A. Provide clean, potable water.

PART 3 - EXECUTION
3.1 HANDLING
A. Store and protect non-shrink grout from moisture and conta-mina-tion.

3.2 PREPARATION
A. Remove mud, dirt and other foreign materials from areas to be grouted.

3.3 MIXING
A. Mix grout to its fluid, self-leveling consistency in accordance with manufacturers recommendations. Do not retemper grout. Do not exceed manufacturer's maximum limit on water content or use at a consistency which produces free bleeding. Mix grout in a paddle-type mortar mixer. Do not mix by hand.

3.4 PLACEMENT
A. Consolidate grout to provide uniformity. Do not vibrate grout.
B. Use forms to contain grout.

3.5 PROTECTION
A. Protect grout and areas to be grouted from excessive heat and cold in accordance with manufacturer's specifications. Protect grout from excessive drying shrinkage resulting from wind or direct sunlight. Protect areas grouted from excessive vibrations for three days.

END OF SECTION

SECTION 042200

STRUCTURAL CONCRETE MASONRY

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section includes structural concrete masonry shown on the Structural Drawings.

1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 032000 - Concrete Reinforcement.
D. Section 033000 - Cast-in-Place Concrete.
E. Section 042000 - Unit Masonry.

1.3 REFERENCES
A. TMS 602 - Specification for Masonry Structures.
B. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
C. ASTM A1064 - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete.
D. ASTM C90 - Standard Specification for Load-Bearing Concrete Units.
E. ASTM C91 — Standard Specification for Masonry Cement
F. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens).
G. ASTM C140 - Standard Methods of Sampling and Testing Concrete Masonry Units.
H. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar.
I. ASTM C270 - Standard Specification for Mortar for Unit Masonry.
J. ASTM C404 - Standard Specification for Aggregates for Masonry Grout.
K. ASTM C476 - Standard Specification for Grout for Masonry.
L. ASTM C1019 - Standard Method of Sampling and Testing Grout.
M. ASTM D2000 - Standard Classification System for Rubber Products in Automotive Applications.
N. ASTM E447 - Standard Test Methods for Compressive Strength of Masonry Prisms.
O. TMS 402 — Building Code for Masonry Structures.

1.4 SUBMITTALS
A. Submit material certificates signed by the material supplier for the following:
1. Masonry unit material properties and test reports showing compliance with requirements. Include data and calculations establishing average net-area compressive strength of units.
2. Integral water repellant used in CMUs.
3. Cementitious materials. Include name of manufacturer, brand name, and type.
4. Mortar admixtures.
5. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
6. Grout mixes. Include description of type and proportions of ingredients.
7. Reinforcing bars.
8. Joint reinforcement.
9. Anchors, ties, and metal accessories.
B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C109 for compressive strength, ASTM C1506 for water retention, and ASTM C91 for air content.
2. Include test reports, according to ASTM C1019, for grout mixes required to comply with compressive strength requirement.
C. Submit shop drawings for masonry reinforcement in accordance with Section 032000.
D. Submit procedures for construction of masonry walls to be filled with coarse grout. Procedures should include high lift or low lift grouting as applicable to project.
E. Manufacturer's Qualifications: Manufacturer shall have on file current certified test reports defined as those reports performed and dated within twelve months of the bid due date of the project. Manufacturer shall certify that the masonry units supplied for the project shall be a minimum of 30 days old at time of shipment from manufacturer and shall be sole sourced from one plant.
F. Installer Qualifications: Certify a minimum of 2 years experience with similar masonry installations.

1.5 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Verify reinforcing steel for quantity, size, and location.
2. Verify manufacturer's and installer's qualifications.
3. Verify placement of coarse grout as indicated in high or low lift procedure.
4. Verify compressive strength of concrete masonry units, mortar, coarse grout, or masonry prisms for each 5,000 sq. ft. of surface area as follows:
a. Three (3) concrete masonry units shall be tested in accordance with ASTM C140.
b. Six (6) mortar cube specimens shall be tested, three (3) at 7-days and three (3) at 28-days, in accordance with ASTM C109.
c. Four (4) coarse grout specimens shall be tested, two (2) at 7-days and two (2) at 28-days, in accordance with ASTM C1019.
d. In lieu of individual tests of masonry units, mortar, and grout, if directed by the Design Professional, perform one (1) prism test (which consists of three prisms) in accordance with ASTM E447.
B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 01 4525.

1.6 HANDLING OF MATERIALS
A. Package, handle, and store materials to protect from elements and prevent contamination.

PART 2 - PRODUCTS
2.1 CONCRETE MASONRY
A. Concrete masonry shall have the minimum compressive strength (f'm) specified on the Drawings. Concrete masonry shall have a minimum density of 125 pcf.

2.2 CONCRETE MASONRY UNITS
A. Concrete masonry units shall conform to ASTM C90.
B. Provide normal weight concrete masonry units.
C. Concrete masonry units shall have, as a minimum, the net area compressive strength listed in Table 1 of TMS 602 required for the specified f'm.
D. Provide standard units with face dimensions of 16" long x 8" high nominal, unless indicated otherwise.
E. Provide special shapes where indicated on the Drawings.

2.3 MORTAR
A. Mortar shall be Type M or Type S Masonry cement in accordance with ASTM C270. Refer to Drawings for locations. For SDC D or greater, replace masonry cement with Portland Cement or Mortar Cement. Aggregate for Masonry Mortar shall be in accordance with ASTM C144.
B. Do not use admixtures that contain chlorides.

2.4 COARSE GROUT
A. Coarse grout shall conform to ASTM C1064.
B. Coarse grout shall have the minimum compressive strength specified on the Drawings.
C. Mix grout to a consistency which has a slump between 8 and 10 inches.
D. Do not use admixtures that contain chlorides.

2.5 WATER
A. Provide clean potable water free of deleterious substances.

2.6 REINFORCEMENT
A. Horizontal and vertical reinforcing bars shall comply with Section 032000.

2.7 HORIZONTAL JOINT REINFORCEMENT
A. Horizontal joint reinforcement shall be manufactured with longitudinal parallel, deformed side wires in accordance with ASTM A951 and of the size specified on the Drawings. Cross wires shall be No. 9 gauge spaced not more than 16" on center.
B. Provide as a minimum, one side wire for each face shell of hollow masonry units. Provide additional side wires or eye sections for adjustable wall ties as specified for multiwythe wall construction.
C. Provide ladder type reinforcement.
D. Horizontal joint reinforcement shall be hot-dipped galvanized in accordance with ASTM A153, Class B-2.
E. Provide in lengths of not less than 10 feet. Provide prefabricated corner and tee shape corner accessories.

2.8 CONTRACTION JOINT MATERIAL
A. Contraction joint material shall comply with ASTM D2000, M2AA-805 with rubber shear keys with a minimum durometer hardness of 80.

PART 3 - EXECUTION
3.1 MIXING
A. Except as otherwise approved for small batches, mix in mechanically operated batch mixers of drum type in which water can be accurately and uniformly controlled. Allow five minutes maximum mixing time, two minutes for dry mixing and three minutes for continued mixing after water has been added. Do not permit volume of batch to exceed manufacturer's rated capacity of mixer drum. Empty drum completely before placing next batch. Keep mixers and wheelbarrows clean. Do not deposit mortar upon or permit contact with ground.
B. Do not use anti-freeze compounds.

3.2 CONSTRUCTION
A. Use dry masonry units. No frozen or wet units shall be used.
B. Discard cracked, chipped, and spalled masonry units.
C. Deliver mortar to mason's board at point of use within 45 minutes after mixing. Do no retempering. Use no admixtures. Use pre-hydrated mortar for tuck points. Prepare pointing mortar with as dry consistency as will produce mortar sufficiently plastic to be worked into joints.
D. During erection cover top of wall with strong waterproof membrane at end of each day when shutdown. Cover partially completed walls when work is not in progress. Extend and secure cover a minimum of 24 in. down both sides. Do not apply uniform floor or roof loading for at least 12 hours after building masonry columns or walls. Do not apply concentrated loads for at least 3 days after building masonry columns or walls.
E. Provide temporary bracing during erection as required to stabilize erected masonry.
F. Except where otherwise indicated, lay block in running bond.

3.3 PLACING AND BONDING
A. Lay masonry in full beds of mortar on mating surfaces, and properly jointed with other work. Buttering corners of joints, deep or excess furrowing of mortar joints is not permitted.
B. Fully bond external corners of concrete block. Where interior block partitions intersect other block walls or partitions, provide control joints with mortar raked back 1/4 inch.
C. Isolate masonry partitions from vertical structural framing members with control joints, with mortar racked back 1/4 inch.
D. Where non-bearing masonry partitions extend to underside of floor, roof deck or structural system, stop masonry short 3/8 to 1/2 inch to allow for live load deflection. Fill gap with soft joint filler.
E. Where masonry chase walls are constructed, one wall can be stopped above ceiling to provide access space.

3.4 CONTRACTION JOINTS
A. Install contraction joints at locations indicated on the Drawings in all masonry walls. Do not run masonry reinforcement through contraction joints.

3.5 TOLERANCES
A. Variation from Unit to Adjacent Unit: 1/32 inch maximum.
B. Variation from Plan of Wall: Maximum 1/4 inch in 10 feet, and 1/2 inch in 20 feet or more.
C. Variation from Plumb: +/- 1/4 inch in 10 feet, +/- 3/8 inch in 20 feet; +/- 1/2 inch maximum.
D. Variation in Level Coursing: +/- 1/4 inch in 10 feet; +/- 1/2 inch maximum.
E. Variation in Joint Thickness: +/- 1/8 inch Maximum.

3.6 HORIZONTAL JOINT REINFORCEMENT
A. Place horizontal joint reinforcement in the horizontal mortar beds at spacings as noted in the Drawings, except as specified herein.
B. For masonry below grade, space horizontal joint reinforcing at 8 inches vertically.
C. Above lintels and below sills at openings, place a continuous run of horizontal joint reinforcement in the first two bed joints, 8 inches apart. Extend joint reinforcement two feet beyond opening.
D. Joint reinforcement shall be continuous, except it shall not pass through vertical masonry contraction joints. Lap joint reinforcement a minimum of 6 inches.

3.7 ENVIRONMENTAL PROVISIONS
A. Cold weather masonry construction shall comply with TMS 602-16 per the following:
1. When ambient temperature is below 40 degrees F, implement cold weather procedures per the following:
a. Do not lay masonry units having either a temperature below 20 degrees F or containing frozen moisture, visible ice or snow on their surface.
b. Remove visible ice and snow from the top surface of existing foundations and masonry to receive new construction and heat these surfaces above freezing using methods that do not result in damage.
c. Do not heat water or aggregates used in mortar or grout above 140 degrees F. Comply with the following:
1. Between 40 degrees F and 32 degrees F -
i. Heat sand or mixing water to produce mortar temperature between 40 degrees F and 120 degrees F at time of mixing.
ii. Heat grout materials when the temperature of the materials is below 32 degrees F.
2. Between 32 degrees F and 25 degrees F —
i. Heat sand or mixing water to produce mortar temperature between 40 degrees F and 120 degrees F at time of mixing.
ii. Heat grout materials and mixing water to produce grout temperature between 70 degree F and 120 degree F at the time of mixing. Maintain grout temperature above 70 degree F at the time of grout placement.
3. Between 25 degrees F and 20 degrees F —
i. Heat sand or mixing water to produce mortar temperature between 40 degrees F and 120 degrees F at time of mixing. Maintain mortar temperature above freezing until used in masonry.
ii. Heat masonry surfaces under construction to a minimum temperature of 40 degrees F.
iii. Heat grout aggregates and mixing water to produce grout temperature between 70 degree F and 120 degree F at the time of mixing. Maintain grout temperature above 70 degree F at the time of grout placement.
iv. Use wind breaks or enclosures when the wind velocity is greater than 15 mph.
v. Heat masonry to 40 degrees F prior to grouting.
4. Below 20 degrees F —
i. Comply with previous requirements and provide an enclosure and auxiliary heat to maintain air temperature above 32 degrees F within the enclosure.
2. When ambient temperature is between 25 degrees F and 40 degrees F, cover newly constructed masonry completely with weather-resistive blankets or equal protection for 24 hours after completion of work. Extend time period to 48 hours for grouted masonry.
3. Below 25 degrees F, maintain newly constructed masonry temperature above 32 degrees F for at least 24 hours after being completed by using heated enclosures, electric heating blankets, infrared lamps or other acceptable methods. Extend time period to 48 hours for grouted masonry.
B. Hot weather masonry construction shall comply with TMS 602-16 per the following:
1. When ambient temperature exceeds 100 degrees F or exceeds 90 degrees F with a wind velocity greater than 8mph:
a. Maintain sand piles in a damp, loose condition.
b. Provide necessary conditions and equipment to produce mortar having a temperature below 120 degrees F.
c. Maintain temperature of mortar and grout below 120 degrees F.
d. Flush mixer, mortar transport container, and mortar boards with cool water before they come into contact with mortar ingredients or mortar.
e. Maintain mortar consistency by retempering with cool water.
f. Use mortar within 2 hours of initial mixing.
g. Fog spray newly constructed masonry until damp, at least 3 times a day until the masonry is three days old.
2. When ambient temperature exceeds 115 degrees F or exceeds 105 degrees F with a wind velocity greater than 8mph follow requirements in section 3.8.B.1 and the following additional requirements:
a. Shade materials and mixing equipment from direct sunlight.
b. Use cool mixing water for mortar and grout. Ice is permitted in the mixing water prior to use. Do not permit ice in the mixing water when added to other mortar or grout materials.

3.8 FIELD QUALITY CONTROL
A. Testing and Inspecting: Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.
B. Inspections: Special Inspections according to the specification 014525 and TMS 402.
1. Begin masonry construction only after inspectors have verified proportions of site prepared mortar.
2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes and locations of reinforcement.
3. Place grout only after inspectors have verified proportions of site-prepared grout.
C. Testing: Test according to Section 1.5 — Quality Assurance.

3.9 REPAIRING, POINTING, AND CLEANING
A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.
B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
5. Clean concrete masonry by applicable cleaning methods indicated in NCMA TEK 8-4A.

END OF SECTION

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SECTION 051000

STRUCTURAL STEEL

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section includes fabrication and erection of structural steel indicated in the Contract Documents or otherwise required for proper completion of the work.

1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 052000 - Steel Joists.
D. Section 053000 - Metal Decking.

1.3 REFERENCES
A. AISC - Code of Standard Practice for Steel Buildings and Bridges.
B. AISC 360-16 - Standard Specification for Structural Steel Buildings, 15th Edition.
C. RCSC - Specification for Structural Joints Using High-Strength Bolts.
D. AWS A5.1 - Specification for Carbon Steel Electrodes for Shield Metal Arc Welding.
E. AWS A5.5 - Specification for Low-Alloy Steel Covered Arc Welding Electrodes.
F. AWS A5.17 - Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding.
G. AWS A5.20 - Specification for Carbon Steel Electrodes for Flux Cored Arc Welding.
H. AWS D1.1 - Structural Welding Code.
I. ASTM A36 - Standard Specification for Structural Steel.
J. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
K. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
L. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
M. ASTM F3125 — Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi and 150 ksi Minimum Tensile Strength, Inch and Metric Dimensions.
N. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing in Rounds and Shapes.
O. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
P. ASTM A563 — Standard Specifications for Carbon and Alloy Steel Nuts.
Q. ASTM A780 - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings.
R. ASTM A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing
S. ASTM F436 - Standard Specification for Hardened Steel Washers.
T. ASTM F844 - Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use.
U. ASTM A563 — Standard Specifications for Carbon and Alloy Steel Nuts.
V. SSPC - Steel Structures Painting Manual.

1.4 SUBMITTALS
A. Contact Design Professional prior to detailing structural steel shop drawings.
B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
C. Submit shop drawings for review.
D. Shop drawings shall clearly indicate the profiles, sizes, ASTM Grade, spacings and locations of all structural steel members, including connections, attachments, anchorages, framed openings, sizes and types of fasteners, method of tightening fasteners, cambers, and the number, type and spacing of the headed shear connectors.
E. For connections and elements designed by the contractor, submit shop drawings and calculations sealed by an engineer licensed in the project state.
F. For record only, submit written welding procedures for each type of welded joint used in accordance with Appendix E of the AWS Structural Welding Code. Submit manufacturer certifications for welding consumables/materials.
G. Maintain at construction office mill certification that the steel supplied meets the specifications.
H. Maintain at construction office certification that high strength bolts supplied meet the specifications.
I. Submit certification that the fabricator meets the required qualifications. If fabricator must have an independent testing agency to inspect fabrication as required by these specifications, submit the name and qualifications of the independent testing agency.
J. For each approved fabricator that is exempt from Special Inspections of shop fabrications and implementation procedures in accordance with Section 1704.2 of the Building Code, submit "Fabricator's Certificate of Compliance". Provide copies of fabricator's certification or building code evaluation services report and fabricator's quality control manual.
K. Submit certification that the erector meets the required qualifications.
L. Upon request, submit the erection sequence and procedures to be used by the steel erector.
M. Manufacturer's recommendations for expansion anchor installation.
N. Manufacturer's recommendations for adhesive anchor installation.
O. Qualification Data: For Erector, manufacturer, professional engineer, land surveyor and testing agency.
P. Surveys:
1. Submit survey indicating elevations and locations of concrete and masonry-bearing surfaces and locations of anchor rods, bearing plates and other embedments to receive structural framing. Indicate discrepancies between actual installation and Contract Documents.
2. Submit survey indicating final elevations and locations of columns and other major structural steel elements. Steel survey shall include column plumbness after structural steel erection. Indicate discrepancies between actual installation and Contract Documents. Have surveyor who performed surveys certify their accuracy.

1.5 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Anchor Bolts
a. Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
2. Welded Connections
a. Inspection shall be in accordance with AWS Structural Welding Code.
b. Visually inspect all field welded connections. Visual inspection of welded joints includes periodic examination of fitup.
c. Ultrasonically inspect 100% of the complete penetration welds.
d. Review approved welding procedures. Verify that welding procedures are being adhered to during field welding.
e. Verify welder qualifications.
3. Bolted Connections
a. Inspection and testing shall be in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts.
b. Prior to visual and physical testing, tension testing using a calibration device must indicate tensions at least 5% in excess of the AISC minimum. Structural steel erector shall supply the tension calibration device.
c. Test a minimum of 10% of the bolted connections.
B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 01 4525.

1.6 FABRICATOR'S QUALIFICATIONS
A. Steel fabricator shall be certified by the American Institute of Steel Construction (AISC) Quality Certification Program for Conventional Steel Buildings (BU).
B. Fabricator not certified by the AISC Quality Certification Program shall have fabrication procedures and fabricated steel tested and inspected by the Materials Testing and Special Inspection Agency contracted by the Owner. Payment of these tests and inspections shall be by the fabricator. Tests and inspections shall be performed by AWS Certified Welding Inspectors. Prior to delivery of structural steel to the project, submit copies of the inspection reports to the Design Professional. The purpose of this inspection is to enable the testing/inspection agency to verify that, in general, the steel is being fabricated in accordance with the Contract Documents. A minimum of one trip per week is recommended. The first trip should be scheduled at the first requirement for inspections as required by IBC Chapter 17. Contact Design Professional prior to initial inspection. Tests and inspections shall include the following:
1. Examine mill test reports and verify that material being used is the same as the mill test reports.
2. Review the fabricator's written welding procedures. Verify that the fabricator's welding procedures are being followed. Verify that welders are certified with current papers and that they demonstrate proper techniques.
3. Observe high strength bolting procedures. Verify that shop installation of high strength bolts conform to AISC specifications.
4. Examine joint preparation for complete penetration joints. Ultrasonically inspect 100% of the complete penetration welds.
5. Examine fillet welds for proper size, profile, throat, porosity and end returns.
6. Examine steel members for lamellar tearing. Spot check dimensions and hole sizes.
7. Examine bolted areas for burrs.

1.7 ERECTOR'S QUALIFICATION
A. Erector shall be experienced in erecting structural systems similar in complexity to this project as evidenced by 10 completed projects.
B. Erector shall have a minimum of 5 years' experience in the erection of structural steel or is an AISC Certified Advanced Steel Erector.

1.8 WELDER'S QUALIFICATIONS: Qualify procedures and personnel in accordance with AWS D1.1.

1.9 STORAGE
A. Store materials off ground to permit easy access for inspection and identification. Store steel members and packaged items in a manner that provides protection against contact with deleterious materials.

PART 2 - PRODUCTS
2.1 ANCHOR ROD
A. Anchor rods shall conform to ASTM F1554, Grade 36 (unless noted otherwise on drawings) and shall be a headed rod or threaded rod with a double heavy hexagonal nut at the bottom of the threaded rod, Grade A563A, unless noted otherwise.
B. Provide two heavy hexagonal nuts at the base of the anchor rod conforming to ASTM A563 Grade C with one plain steel washer between conforming to ASTM F844. Provide one hexagonal nut at the top with plate washer listed below.
C. Provide 3/8-inch-thick plate washers (3-inch x 3-inch) in lieu of top steel washer on base plates with oversized holes conforming to ASTM A36, unless noted otherwise on drawings.

2.2 ROLLED STEEL WIDE FLANGE, CHANNEL AND WT SHAPES
A. Rolled steel wide flange, channels and WT shapes shall conform to ASTM A992.

2.3 PLATES, ANGLES AND BARS
A. Plates, angles and bars shall conform to ASTM A36.

2.4 ROUND STRUCTURAL STEEL TUBING
A. Round structural steel tubing shall conform to ASTM 500, Grade C, 46 ksi minimum yield strength.

2.5 RECTANGULAR STRUCTURAL STEEL TUBING
A. Rectangular structural steel tubing shall conform to ASTM A500, Grade C, 50 ksi minimum yield strength.

2.6 HIGH-STRENGTH FASTENERS
A. High-strength bolts shall conform to ASTM F3125 Type 1, 120 ksi as noted on the Structural Drawings.
B. Provide 3/4-inch minimum diameter bolts, unless noted otherwise.
C. Hardened steel washers shall conform to ASTM F436.
D. Spline-type tension control bolts, plain hardened washers and suitable nuts are an acceptable alternate design bolt assembly.
E. Do not use load indicating washers.

2.7 HEADED STUDS
A. Headed steel studs shall conform to the requirements of AWS D1.1.
B. Provide 3/4-inch diameter headed steel studs, unless noted otherwise.
C. Provide heat-resistant ceramic arc shields with studs.

2.8 EXPANSION ANCHORS
A. Expansion anchors shall have been evaluated by the ICC Evaluation Services, Inc. (ICC-ES) or IAPMO Uniform ES (UES) with a published evaluation report. Anchors shall be evaluated by ICC-ES Acceptance Criteria 193 and be specifically approved for use in cracked concrete. All anchors shall be approved for resisting wind and seismic loads.

2.9 ADHESIVE ANCHORS
A. Adhesive anchors shall consist of:
1. An all-thread steel anchor conforming to ASTM A307, Grade A or ASTM A36, zinc plated in accordance with ASTM B633, unless noted otherwise on the Structural Drawings, and
2. An adhesive conforming to ASTM C881-02, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two-component adhesive system contained in side-by-side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.

2.10 WELD ELECTRODES
A. E-70 series low hydrogen electrodes shall conform to AWS A5.1, A5.5, A5.I7, or A5.20.
B. Properly store electrodes to maintain flux quality.

2.11 PAINT
A. Oxide primer shall conform to AISC Specifications, Code of Standard Practice, and SSPC Steel Structure Painting Manual, unless indicated otherwise.
B. Paint primer shall be free of lead and chromate and shall comply with State and Federal volatile organic compound (VOC) requirements.
C. Paint primer shall be compatible with finish coating.

2.12 GALVANIZING
A. Galvanized coating shall conform to ASTM A123.
B. Galvanize bolts, nuts, and washers in accordance with ASTM A153 when used to connect steel members that are specified to be galvanized.
C. Expansion anchors or adhesive anchors specified to be galvanized shall be mechanically galvanized in accordance with ASTM B695, Class 65, Type I.

PART 3 - EXECUTION
3.1 GENERAL
A. Fabricate and erect structural steel in accordance with AISC Specifications and Code of Standard Practice.
B. Notify Design Professional and Structural Testing/Inspection Agency at least 48 hours prior to structural steel fabrication and erection.

3.2 ANCHOR BOLT SETTING
A. Provide templates for setting anchor bolts. Position anchor bolts by using templates with two nuts to secure in place prior to placement of concrete.
B. Do not erect steel where anchor bolt nuts will not have full threads.

3.3 CONNECTIONS
A. Provide a minimum of two fasteners at each bolted connection.
B. Ensure fasteners are lubricated prior to installation.
C. Provide high-strength bolted connections in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts using ASTM F3125 Bolts.
D. Provide connections for expansion and contraction where steel beams connect to concrete walls or concrete columns and at expansion joints. Secure nuts on bolts against loosening. (Dent threads with a chisel.)

3.4 FASTENER INSTALLATION
A. Bolts shall be installed in holes of the connection and brought to snug tight condition. Tighten connection progressing systematically from the most rigid part to the free edges of the connection to minimize relaxation of the bolts.
B. High-strength bolts installed shall have a hardened washer under the element turned in tightening.
C. Installation and tightening of bolts shall conform to the RCSC Specification for Structural Joints Using High-Strength Bolts

3.5 HEADED STUDS
A. Headed studs shall be welded in accordance with AWS D1.1.
B. Locate shear studs directly over the web of beams with flanges less than 0.3 inches thick.
C. The minimum center spacing shall be 6 diameters along the longitudinal axis of the beam and 4 diameters transverse to the longitudinal axis of the beam.
D. Where double rows of shear studs are required, begin double rows at each end of the beam.
E. Remove shields after welding studs.

3.6 EXPANSION ANCHOR INSTALLATION
A. Install in accordance with manufacturer's recommendation.
B. Minimum embedment shall be equal to 4.5 times the anchor diameter unless noted otherwise.

3.7 ADHESIVE ANCHOR INSTALLATION
A. Install in accordance with manufacturer's recommendation.
B. Minimum embedment shall be equal to 4.5 times the anchor diameter unless noted otherwise.

3.8 WELDING
A. Comply with AWS D1.1 Structural Welding Code. Use prequalified weld procedures.
B. Provide end returns where fillet welds terminate at end or sides. Returns shall be continuous for a distance of not less than two times the nominal size of the weld.
C. Complete penetration joints shall be back gouged to sound metal before the second side is welded or have 1/4-inch root opening with 3/16 x 1 inch backing bar. Access holes are required. Filling access holes is not required.
D. Remove all slag and weld splatter from deposited weld metal.

3.9 SPLICING
A. Splice members only where indicated unless authorized in writing by the Design Professional.
B. Provide shim plates at bottom flange splice at continuous beam splices with different depths.

3.10 CUTTING
A. Do not use flame cutting to correct errors unless authorized in writing.
B. Re-entrant corners shall have a minimum radius of one inch and be free of notches. Notches and gouges resulting from flame cutting shall be finished to a smooth appearance.

3.11 MILL SCALE
A. Remove loose mill scale.

3.12 BOLT HOLES
A. Cut, drill, or punch holes perpendicular to metal surfaces. Do not enlarge holes by burning. Drill or punch holes in bearing plates. Remove burrs.

3.13 PAINTING
A. Paint steel that is not encased in concrete, plaster, or sprayed fireproofing. Do not shop paint in areas to be field welded, contact surfaces of slip critical connections, or areas to receive special finishes.
B. Field paint as required steel that has been welded or that is unpainted after connections have been tightened.

3.14 GALVANIZING
A. Galvanize shelf angles that support the exterior building veneer, for example brick shelf angles.
B. Galvanize environmentally exposed steel, for example mechanical equipment or balcony supports.
C. Touch-up welds and abrasions in galvanized members in accordance with ASTM A780.

3.15 EXAMINATION
A. Before Erection begins, survey elevations and plan locations of concrete and masonry bearing surfaces and locations of anchor rods, bearing plates, and other embedments to receive structural framing, with Erector present, for compliance with requirements and specified tolerances.
1. Engage land surveyor to perform surveying.
2. Survey submittals shall indicate elevations and plan locations, and discrepancies between actual installation and Contract Documents.
3. Connections to surveyed items cannot be made until submittal has been approved by Design Professional and unsatisfactory conditions have been corrected.
B. As erection proceeds, survey final elevations and plan locations of columns, beams and other major structural steel elements for compliance with requirements and specified tolerances.
1. Engage land surveyor to perform surveying.
2. Steel frame survey submittals shall indicate final elevations and plan locations of columns, beams and other major framing, as well as column plumbness. Indicate discrepancies between actual installation and the contract Documents.
3. Placement or application of other materials which might obscure or restrain surveyed elements cannot be made until submittal has been approved by the Design Professional and unsatisfactory conditions have been corrected.

3.16 REPAIR
A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing, and repair galvanizing to comply with ASTM A780.
B. Touchup Painting:
1. Immediately after erection, clean exposed areas where primer is damaged or missing, and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.
2. Touchup Priming: Cleaning and touchup priming are specified in Section 099600 "High-Performance Coatings."

3.17 FIELD QUALITY CONTROL
A. Special inspector to perform the following special inspections in accordance with specification section 01 4525
1. Bolted Connections: Inspect bolted connections in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts."
2. Welded Connections: Visually inspect field welds in accordance with AWS D1.1.
a. In addition to visual inspection, test and inspect field welds in accordance with AWS D1.1 and the following inspection procedures, at testing agency's option:
1. Liquid Penetrant Inspection: ASTM E165.
2. Magnetic Particle Inspection: ASTM E709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
3. Ultrasonic Inspection: ASTM E164.
4. Radiographic Inspection: ASTM E94.

END OF SECTION

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SECTION 052000
STEEL JOISTS

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section includes the manufacture and erection of steel joists shown on the Drawings.
1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 051000 - Structural Steel.
D. Section 053000 - Metal Decking.
1.3 REFERENCES
A. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
B. AWS D1.1 - Structural Welding Code.
C. SJI - Standard Specifications for Open Web Steel Joists, K-Series.
1.4 DESIGN REQUIREMENTS
A. Steel joists and bridging shall be designed by an engineer licensed in the project state.
B. Design joists and bridging in accordance with the Steel Joist Institute (SJI) Standard Specifications.
C. Refer to Drawings for special design requirements, if any.
D. Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists and for a concentrated load of 500 pounds at the end of the extension or extended end, unless noted otherwise on the Drawings.
E. Steel joist deflections shall be designed for L/240 under total load (dead + live) and L/360 under live load.
1.5 SUBMITTALS
A. Submit certification letter stating compliance with SJI specifications.
B. Submit detailed shop drawings showing layout of joist units, special connections, and accessories. Include the mark, number, type, location, and spacing of joists and bridging.
C. Submit signed and sealed calculations by the design engineer for review.
D. Upon request, submit mill test certificates.
E. Upon request, submit written welding procedures for each type of welded joint used. Use prequalified joints.
F. Upon request, submit the erection sequence and procedures to be used by the steel erector.
1.6 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Visual inspection of bolted and welded connections.
2. Verify installation of bridging or braces.
3. Verify connections for top and bottom chords.
4. Verify reinforcement of members for concentrated loads.
5. Verify proper bearing.
B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 01 4525.
1.7 QUALIFICATIONS
A. Manufacturer shall verify that design and manufacture of joists conforms with SJI Standard Specifications.
1.8 DELIVERY, STORAGE, AND HANDLING
A. Store and handle joists as recommended in SJI Standard Specifications.
PART 2 - PRODUCTS
2.1 ROLLED STEEL PLATES, SHAPES, AND BARS
A. Steel shall conform to SJI Standard Specifications.
2.2 UNFINISHED BOLTS, WASHERS, AND NUTS
A. Unfinished bolts shall conform to ASTM A307, Grade A, 60 ksi minimum tensile strength. Provide compatible hexagonal nuts and plain washers.
2.3 WELD ELECTRODES
A. E-70 series low hydrogen electrodes conforming to AWS A5.1 or A5.5, A5.17 or A5.20.
B. Provide proper storage for electrodes to maintain flux quality.
2.4 PAINT
A. Primer shall conform to AISC Specifications and Code of Standard Practice and SSPC Steel Structures Painting Manual.
PART 3 - EXECUTION
3.1 MANUFACTURE AND ERECTION
A. Manufacture and erect joists in accordance with SJI Standard Specifications.
B. Members shall have parallel top and bottom chords unless otherwise indicated.
C. Fabricate bearings which rest on sloped surfaces with a slope which conforms to that of the support unless otherwise approved.
D. Provide for connections of kickers and hangers to members.
E. Provide bottom chord extensions at columns and as indicated by the Contract Drawings. Weld bottom chords to members after dead loads have been applied.
F. Provide ceiling extensions in areas having ceilings attached directly to joist bottom chord (not suspended ceilings). Extend ends to within 1/2 inch of the finished wall surface unless otherwise indicated.
G. Camber joists according to SJI Standard Specifications. Negative camber and bent joists are unacceptable.
H. Do not erect joists until supporting work is secured.
I. Provide bridging complying with SJI Standard Specifications. Provide for connections where bridging terminates.
3.2 CONCENTRATED LOADS ON JOISTS
A. Concentrated loads not shown on Drawings must be verified by joist manufacturer for adequacy of joist design. The necessity of any reinforcement required for concentrated loads applied to either the top or bottom chord shall be designed by joist manufacturer.
3.3 HEADER UNITS
A. Provide header units to support openings in floor or roof system not framed with steel shapes.
3.4 SHOP PAINTING
A. Remove loose scale, heavy rust, and other foreign materials from joists and accessories before application of shop paint.
B. Apply one shop coat of steel joist primer paint to joists and accessories, by spray, dipping, or other method to provide a continuous dry paint film thickness of not less than 1.50 mil.
3.5 BEARING
A. Extend ends of steel joists not less than 4 inches over masonry and concrete supports. Extend ends of joists not less than 2-1/2 inches over steel supports. Positive attachment to support shall be made by welding or bolting. In such cases where a shorter end bearing length must be used, such condition must be designed.
B. "U" type anchors are not acceptable unless authorized in writing.
3.6 WELDING
A. Perform welding in accordance with AWS D1.1 "Structural Welding Code". Use AWS Certified Welders.
B. Weld ends of joists resting on steel supports with the minimum weld specified by the SJI standard specifications, unless otherwise indicated on Contract Drawings.
C. Remove all slag and weld splatter from deposited weld material.
3.7 BRIDGING INSTALLATION
A. Permanently fasten bridging before the application of loads.
B. In areas where joists will be exposed to view, align bridging in straight rows to create uniform appearance.
3.8 PROTECTION
A. Provide means for adequate distribution of concentrated loads so that carrying capacity of joists is not exceeded during construction.
B. Provide temporary bridging, bracing, connections, and anchors to ensure lateral stability during construction.
C. Joists damaged during construction shall be replaced or repaired with procedures submitted by the joist manufacturer.
3.9 REPAIRS
A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A780 and manufacturer's written instructions.
B. Touchup Painting:
1. Immediately after installation, clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted joists, bearing plates, abutting structural steel, and accessories.
a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.
b. Apply a compatible primer of same type as primer used on adjacent surfaces.
3.10 CUTTING
A. Do not field cut or apply heat to joists unless authorized in writing.
3.11 FIELD QUALITY CONTROL
A. Testing Agency: Owner shall engage a qualified testing agency to perform tests and inspections.
B. Visually inspect field welds according to AWS D1.1.
1. In addition to visual inspection, test field welds according to AWS D1.1 and the following procedures, at testing agency's option:
a. Liquid Penetrant Inspection: ASTM E165.
b. Magnetic Particle Inspection: ASTM E709.
c. Ultrasonic Testing: ASTM E164.
d. Radiographic Testing: ASTM E94.
C. Visually inspect bolted connections.
D. Prepare test and inspection reports.

END OF SECTION

SECTION 053000
METAL DECKING

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section includes metal decking as indicated on Drawings, specified herein, and needed for a complete and proper installation.
1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 051000 - Structural Steel.
D. Section 052000 - Steel Joists.
1.3 REFERENCES
A. AISI - Specifications for the Design of Cold-Formed Steel Structural Members.
B. AWS D1.1 - Structural Welding Code.
C. AWS A5.5 - Specifications For Low Alloy Steel Covered Arc-Welding.
D. SDI - Basic Design Specifications.
E. SDI - Steel Roof Deck Design Manual.
F. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process.
G. AWS D1.3 — Specification for Welding Sheet Steel in Structures.
1.4 SUBMITTALS
A. Notify the Design Professional prior to detailing shop drawings.
B. Submit detailed shop drawings showing layout and types of deck panels, weld sizes, weld patterns and conditions requiring closure panels, finishes, supplementary framing, sump pans, cant strips, cut openings, special jointing or other accessories. Include calculations and required information if not completely covered by load tables and products data.
C. Submit mill certification that the steel supplied meets the required specifications.
D. Submit written welding procedures.
E. Submit manufacturer's specifications, section properties, load tables, diaphragm shear tables, noise reduction coefficients (if applicable) and installation instructions for each type of decking and accessories. Include manufacturer's certifications to show compliance with supplementary framing, sump pans, cant strips, curb openings, special jointing and other accessories.
1.5 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Verify placement of deck for alignment and proper lap.
2. Verify welds for size and pattern.
1.6 DELIVERY, STORAGE AND HANDLING
A. Protect steel deck from corrosion, deformation and other damage during delivery, storage and handling. Store materials off ground to permit easy access for inspection and identification. Store steel members and packaged items in a manner that provides protection against contact with deleterious materials. Protect with a waterproof covering and ventilate to avoid condensation.
PART 2 - PRODUCTS
2.1 GENERAL
A. Provide metal deck sheets of three spans minimum wherever possible.
B. AISI Specifications Comply with calculated structural characteristics of steel deck according to AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members."
C. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.
2.2 DECK ATTACHMENT
A. Use E-60 series electrodes conforming to AWS A5.5.
B. Provide weld washers for material thinner than 22 gauge.
2.3 PERMANENT FORMS
A. Metal permanent form deck formed from steel sheets shall conform to ASTM A653 structural quality (SQ). Provide permanent form deck types, minimum grades and gauges as indicated on Drawings. Galvanize in accordance with ASTM A924, G-60.
B. Provide vented deck if required by lightweight insulating concrete system.
2.4 ROOF DECK
A. Metal roof deck formed from steel sheets shall conform to ASTM A653 structural quality (SQ). Provide roof deck types, minimum grades and gauges as indicated on Drawings.
B. Before forming, the steel sheets shall receive a hot-dip protective coating of zinc conforming to ASTM A924 with the following minimum coating class, as defined in ASTM A653:
1. Aggressive Environment G90
2. All other locations G60
Provide accessories, clips, and other items as required.
C. Roof deck that will be painted in the field (coordinate with Design Professional), shall comply with these additional requirements:
1. Before fabrication of the panel, all surfaces of the galvanized sheet steel shall be processed through a continuous coil coating line, designed to degrease and clean the metal, followed by a chemical conversion coating to etch the surface for proper bond characteristics. The roof deck shall then be coated with a 0.2 mil epoxy primer, oven baked and recoated with a 0.5 mil polyester primer and rebaked. This coil coated prime finish shall be applied to both sides of the material.
2. For deck within aggressive environments, after fabrication or assembly of the panel, the exposed surface and the inside periphery of the perforations shall receive the factory applied epoxy primer. The primer shall be oven cured to enhance adhesion and durability characteristics.
3. Compatibility of all field applied finish paint with the factory applied primer shall be the responsibility of the painting contractor.
D. Provide roof deck units with flush, nested 2-inch end laps and nested side laps, unless otherwise indicated or specified. Provide deck configurations complying with SDI "Basic Design Specifications".
2.5 ROOF SUMP PANS
A. When required by Design Professional fabricate from single piece of 14-gauge galvanized sheet steel with level bottoms and sloping sides to direct water flow to drain, unless otherwise shown. Provide sump pans of adequate size to receive roof drains and with bearing flanges not less than 3 inches wide. Recess pans not less than 1-1/2 inches below roof deck surface, unless otherwise shown or required by deck configuration. Holes for drains will be cut in the field.
2.6 CANT STRIPS
A. When required by Design Professional fabricate cant strips of 20 gauge sheet steel. Bend to form a 45-degree cant not less than 5 inches wide with top and bottom flanges not less than 2 inches wide, unless otherwise shown.
2.7 GALVANIZING REPAIR PAINT
A. ASTM A780 — SSPC Paint 20 or MIL-P-21035B, with dry film containing a minimum of 94 percent zinc dust by weight.
2.8 REPAIR PAINT
A. Manufacturer's standard rust-inhibitive primer of same color as primer. Coordinate with Architect.
PART 3 - EXECUTION
3.1 GENERAL
A. Load conditions shall be in accordance with Steel Deck Institute sequential loading formulas.
B. Installer must examine the areas and conditions under which metal decking is to be installed and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.
C. Locate deck bundles to prevent overloading of supporting members.
3.2 PLACEMENT
A. Place steel deck units on supporting steel framework and adjust to final position before permanently fastening. Install deck units and accessories in accordance with manufacturer's recommendations and the Drawings, and as specified herein.
3.3 CUTTING
A. Cut holes in deck indicated by the Drawings. Other holes required shall be supplied by those requiring them. Obtain written authorization for additional holes and cutting not indicated on erection drawings.
3.4 WELDING
A. Perform welding in accordance with AWS Structural Welding Code.
B. Provide weld washers for deck thinner than 22 gauge.
3.5 CONCENTRATED LOADS
A. Do not hang concentrated loads exceeding 50 pounds from the deck. Only one such load is allowed per span of the deck. Must be spaced minimum 4'-0" from next concentrated load.
3.6 DECK SUPPORTS
A. Fasten deck to steel framework at ends and at each intermediate support by welding according to manufacturer's specifications unless indicated otherwise on structural drawings or otherwise specified herein. Do not weld deck in place until all bolted and welded connections for the structural frame are complete. A minimum of one floor over the area to be decked is to be bolted and welded prior to welding deck in place.
3.7 ROOF DECK
A. Place roof deck in straight alignment. Lap ends of sheets two inches.
B. Attach side laps of roof deck with as shown on the Drawings. Fasteners for side laps and overlying roofing material in dovetail deck shall be concealed within the depth of the dovetail shaped ribs. Within aggressive environments, fasteners shall be stainless steel.
C. Fasten roof deck in place as shown on the Drawings.
3.8 PERMANENT FORMS
A. Place forms in straight alignment for the entire length of the run of the sheets. Lap ends of sheets two inches.
B. Attach side laps of deck with screws spaced at a maximum of 24 inches on center for spans greater than 4'-0 unless shown otherwise on the Drawings.
C. Weld deck in place with 1/2-inch puddle welds and weld washers with welds on each side of the sheet plus two intermediate welds at each support unless shown otherwise on the Drawings.
3.9 REPAIR
A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint according to ASTM A780 and manufacturer's written instructions. Puddle welds to be painted only if deck is exposed in final condition.
B. Repair Painting:
1. Wire brush and clean rust spots, welds, and abraded areas on surface of prime-painted deck immediately after installation and apply repair paint. Coordinate with manufacturer's specifications.
2. Apply repair paint, of same color as adjacent shop-primed deck, to bottom surfaces of deck exposed to view.
3.10 FIELD QUALITY CONTROL
A. Testing Agency: Owner shall engage a qualified testing agency to perform tests and inspections.
B. Field welds will be subject to inspection.
C. Prepare test and inspection reports.
END OF SECTION

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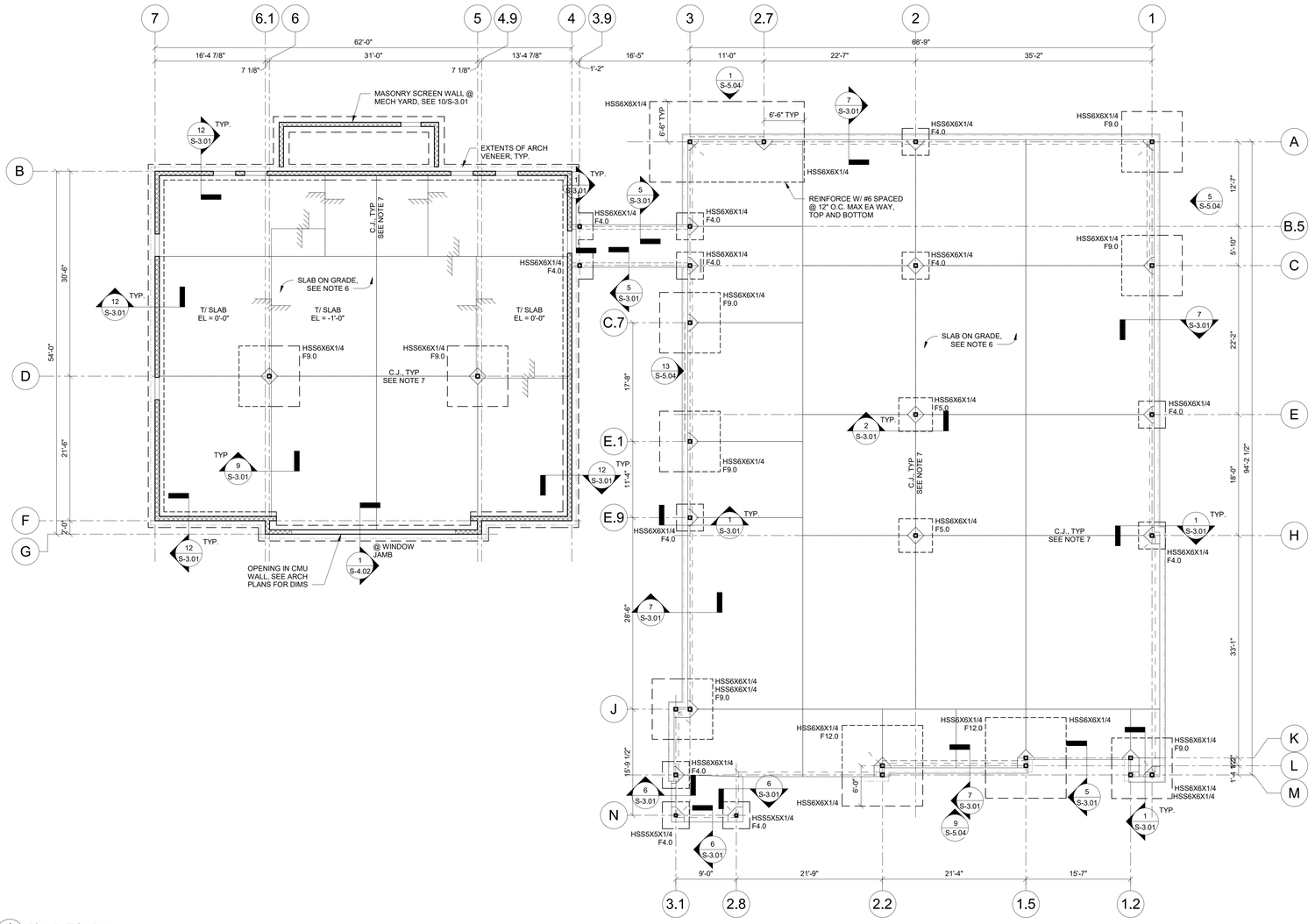

1 S-1.01 FOUNDATION PLAN
1/8" = 1'-0"

NOTES:
1. SEE S-0.01 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. Fx INDICATES COLUMN FOOTING. SEE 1/S-3.01 AND FOOTING SCHEDULE ON THIS SHEET. T/FTG = -2'-0" UNO, BASED ON T/SLAB REFERENCE ELEVATION = 0'-0"
4. BPx INDICATES COLUMN BASE PLATE. SEE 1/S-5.01.
5. INDICATES STEP IN FOOTING. SEE 20/S-3.01.
6. PROVIDE 4" SLAB ON GRADE REINFORCED WITH WWF 6x6 W2.9xW2.9 ON VAPOR BARRIER AND 4" GRANULAR BASE.
7. C.J. INDICATES SLAB CONTROL JOINT. SEE 3/S-3.01 AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
8. PROVIDE ISOLATION JOINT AT COLUMN. SEE 8/S-3.01.
9. PROVIDE REINFORCEMENT AT RE-ENTRANT CORNERS, SEE 4/S-3.01.
10. INDICATES BRACED FRAME. SEE S-5.04.
11. INDICATES SLAB DEPRESSION. SEE DETAIL 9/S-3.01.
12. INDICATES 8" MASONRY WALL REINFORCED W/ #5@24" O.C. SEE DETAILS 5/S-4.01 & 17/S-4.01.
13. (S) INDICATES MASONRY WALL REINFORCEMENT. SEE 7/S-4.01.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY AND PLUMBING LINES. SEE 19/S-3.01.

FOOTING SCHEDULE

MARK	SIZE (WxLxT)	REINF	REMARKS
F4.0	4'-0"x4'-0"x12"	7#4 EW	BOTTOM
F5.0	5'-0"x5'-0"x12"	6#5 EW	BOTTOM
F9.0	9'-0"x9'-0"x18"	8#6 EW	TOP & BOTTOM
F12.0	12'-0"x12'-0"x18"	11#6 EW	TOP & BOTTOM

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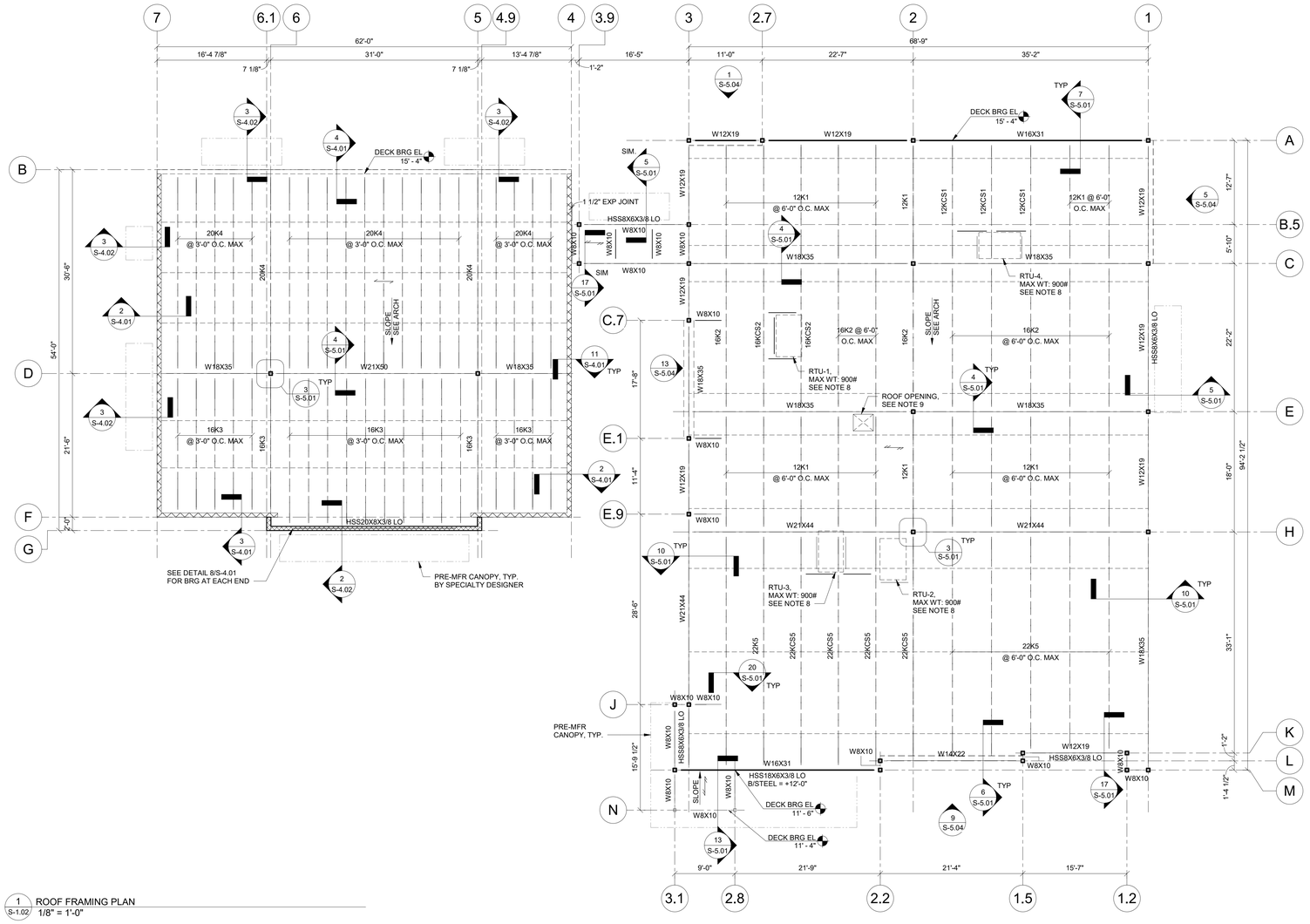

1 S-1.02 ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:
1. SEE S-0.01 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. DECK BEARING ELEVATION VARIES RELATIVE TO FIRST FLOOR REFERENCE ELEVATION = 0'-0" UNO. SEE ARCH FOR ROOF SLOPE AND DIRECTION.
4. ⟋⟍ INDICATES DIRECTIONAL SPAN OF 1 1/2" 20 GA ROOF DECK, SEE 12/S-5.01.
5. ⟍⟋ INDICATES DIRECTIONAL SPAN OF 0.6C 28 GA FORM DECK W/ 3" NORMAL WEIGHT CONCRETE TOPPING REINF. W/ WWF 6X6-W2.9xW2.9, SEE 16/S-5.01.
6. – – – INDICATES BRACED FRAME, SEE S-5.04.
7. CONTRACTOR SHALL COORDINATE LOCATION AND WEIGHTS OF ALL RTU UNITS WITH MECH PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. SEE 8/S-5.01 FOR TYPICAL MECHANICAL UNIT FRAMING SUPPORT.
9. SEE 19/S-5.01 FOR TYPICAL FRAMING AT ROOF DECK OPENINGS.
10. SEE 15/S-5.01 FOR JOIST REINFORCEMENT AT CONCENTRATED LOADS.
11. PROVIDE LINTELS ABOVE ALL OPENINGS IN MASONRY WALLS PER SCHEDULE ON 12/S-4.01.

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ROOF FRAMING PLAN

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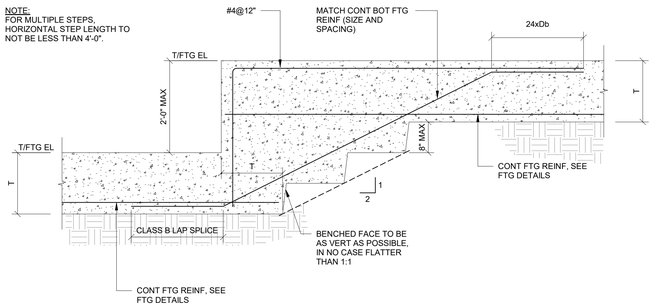
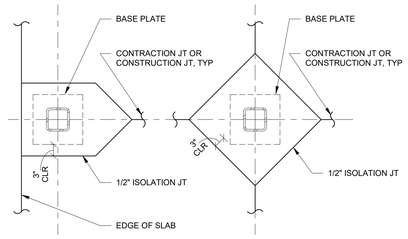
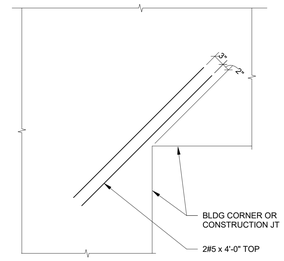


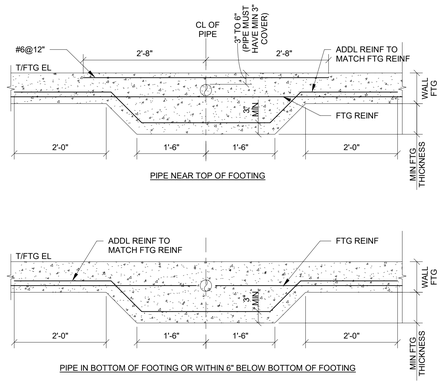
20 S-3.01 TYPICAL CONTINUOUS STEPPED FOOTING
3/4" = 1'-0"



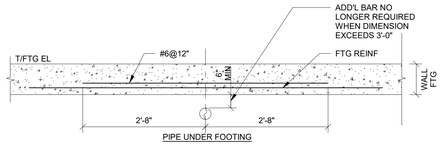
8 S-3.01 TYPICAL ISOLATION JOINT AT STEEL COLUMN
3/4" = 1'-0"



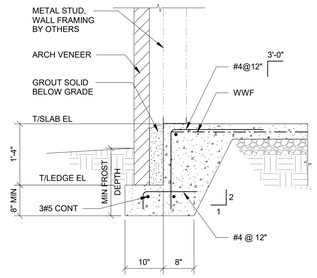
4 S-3.01 TYPICAL REINFORCEMENT AT SLAB RE-ENTRANT CORNER
3/4" = 1'-0"



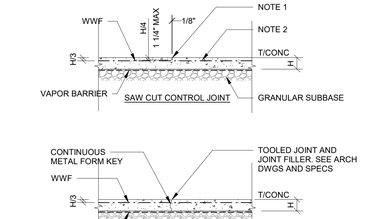
19 S-3.01 TYPICAL THICKENED FOOTING AT UNDERGROUND PIPING
3/4" = 1'-0"



NOTES:
1. NO PIPES TO PASS IN OR BENEATH COLUMN FOOTINGS.
2. PIPES SHALL NOT EXCEED 1/3 THE FOOTING THICKNESS AFTER IT HAS BEEN INCREASED.
3. VERIFY PIPE PENETRATION LOCATIONS W/ PLUMBING CONTRACTOR.

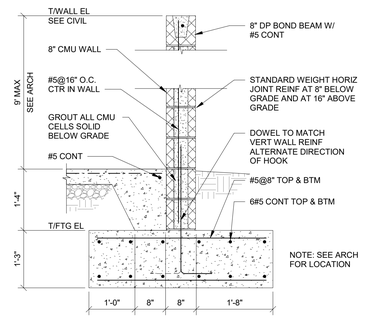


7 S-3.01 TYPICAL TURNDOWN SLAB AT BRICK LEDGE
3/4" = 1'-0"

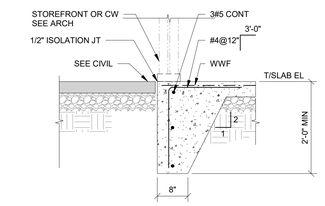


NOTE:
1. SAW CUT SHALL BE MADE SOON ENOUGH TO PREVENT CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. FOR JOINT FILLER, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FOR JOINT SPACING, SEE STRUCTURAL SPECIFICATIONS.
2. SAW CUT OR DISCONTINUE REINF AT CONSTRUCTION JT.
3. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING.
4. WHERE REQUIRED FOR SUCCESSFUL INSTALLATION OF FLOOR FINISH SLAB SHALL BE WET CURED AND BE PLACED A MINIMUM OF 90 DAYS PRIOR TO INSTALLATION OF FLOOR FINISHES. AT CONTRACTOR'S OPTION DIAMOND DOWELS MAY BE USED IN LIEU OF CONTINUOUS CONCRETE KEY AT KEYED JOINT.
5. PROVIDE SLAB BOLSTERS A MAX 2'-0" APART FOR WWF SUPPORT

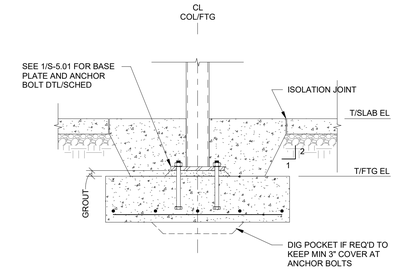
3 S-3.01 TYPICAL GRADE SUPPORTED SLAB AT JOINTS
3/4" = 1'-0"



10 S-3.01 TYPICAL SCREEN WALL SECTION
3/4" = 1'-0"



6 S-3.01 TYPICAL TURNDOWN SLAB AT STOREFRONT
3/4" = 1'-0"



2 S-3.01 TYPICAL INTERIOR STEEL COLUMN FOOTING
3/4" = 1'-0"

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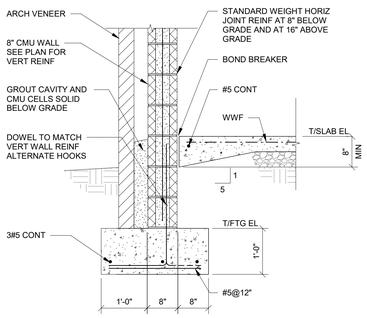
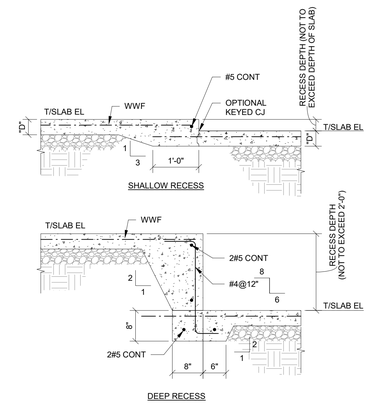
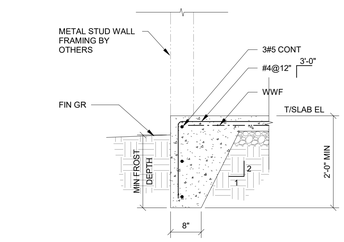


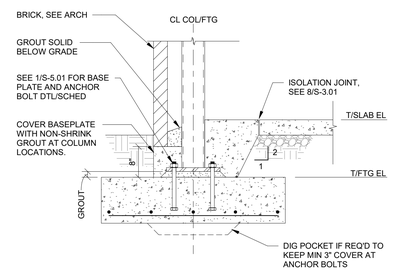
12 S-3.01 TYPICAL EXTERIOR 8" CMU WALL FOOTING
3/4" = 1'-0"



9 S-3.01 TYPICAL GRADE SUPPORTED SLAB AT RECESS
3/4" = 1'-0"



5 S-3.01 TYPICAL TURNDOWN SLAB
3/4" = 1'-0"



1 S-3.01 TYPICAL EXTERIOR STEEL COLUMN FOOTING
3/4" = 1'-0"

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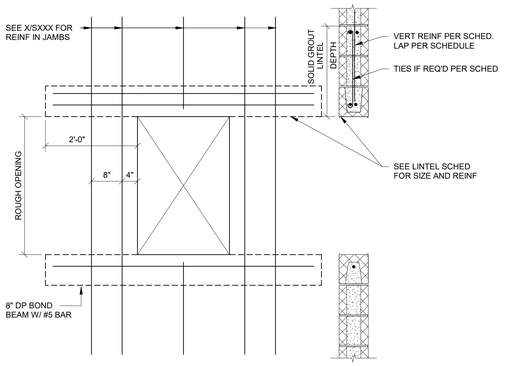


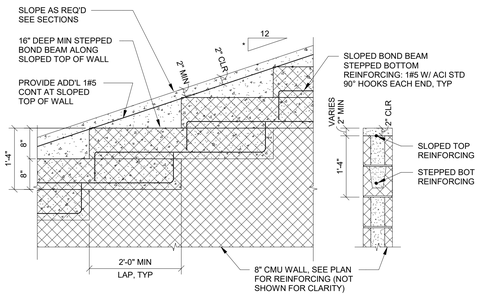
20 S-4.01 TYPICAL REINFORCING AT CMU WALL OPENING
3/4" = 1'-0"

STANDARD LINTEL SCHEDULE

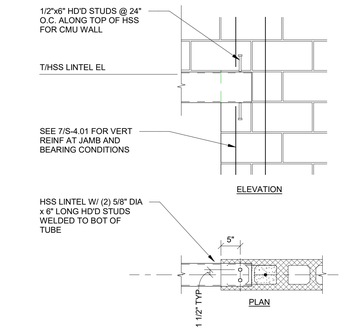
WALL SIZE	LINTEL TYPE	REMARKS
OPENINGS UP TO 6'-0"		
4" BRICK	5/16"x5"xHORZ LEG BENT PL	ARCH TO PROVIDE HORZ DIM.
4" BLOCK	4"x8" CONC W/ 1#4 T&B	
6" BLOCK	6"x8" CONC W/ 1#4 T&B	
8" BLOCK	8"x8" CONC W/ 2#4 T&B 8"x8" U-BLOCK W/ 1#5 T&B	
12" BLOCK	12"x8" CONC W/ 2#4 T&B 12"x8" U-BLOCK W/ 2#5 T&B	
OPENINGS 6'-0" TO 8'-0"		
4" BRICK	3/8"x6"xHORZ LEG BENT PL	ARCH TO PROVIDE HORZ DIM.
8" BLOCK	8"x8" CONC W/ 2#4 T&B 8"x16" U-BLOCK W/ 1#6 T&B	
12" BLOCK	12"x8" CONC W/ 2#4 T&B 12"x16" U-BLOCK W/ 2#5 T&B	
OPENINGS 8'-0" TO 10'-0"		
6" BLOCK	6"x16" CONC W/ 2#5 T&B	#3 STIR @ 7" CONT
8" BLOCK	8"x8" CONC W/ 2#4 T&B	#3 STIR @ 7" CONT
12" BLOCK	12"x8" CONC W/ 2#4 T&B	#3 STIR @ 7" CONT

NOTES:
1. ALL STEEL LINTELS TO BE GALVANIZED.
2. PROVIDE MINIMUM OF 6" BEARING FOR BRICK LINTELS.
3. SEE DETAIL 20/S-4.01 FOR MINIMUM BEARING OF BLOCK LINTELS.
4. ALL OPENINGS ARE TO BE SHORED UNTIL THE MASONRY HAS CURED FOR A MINIMUM OF 72 HOURS.

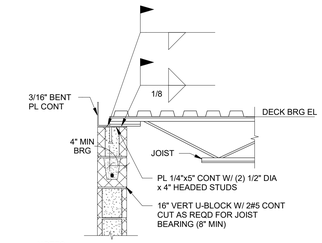
19 S-4.01 STANDARD LINTEL SCHEDULE
N.T.S



12 S-4.01 SLOPED BOND BEAM DETAIL
3/4" = 1'-0"

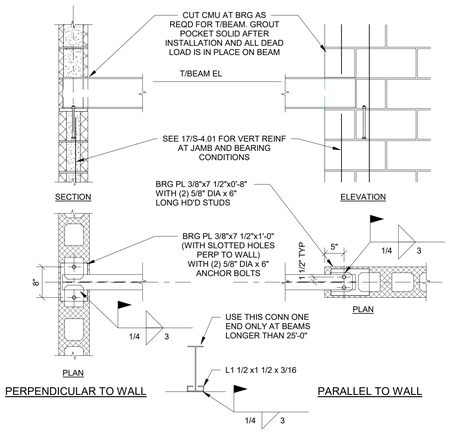


8 S-4.01 TYPICAL CMU WALL AT HSS LINTEL BEARING
3/4" = 1'-0"

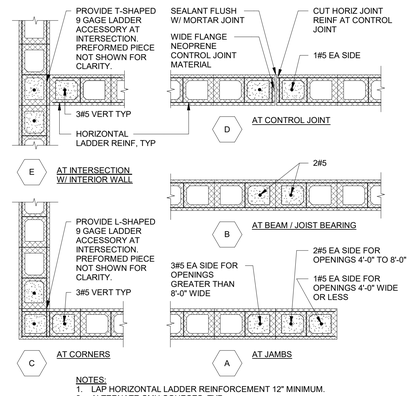


NOTES:
1. VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY.

4 S-4.01 TYPICAL 8" CMU WALL AT JOIST (PERPENDICULAR W/O PARAPET)
3/4" = 1'-0"

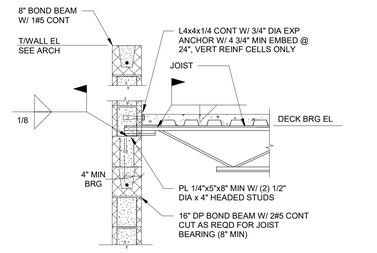


11 S-4.01 TYPICAL CMU WALL AT BEAM BEARING
3/4" = 1'-0"



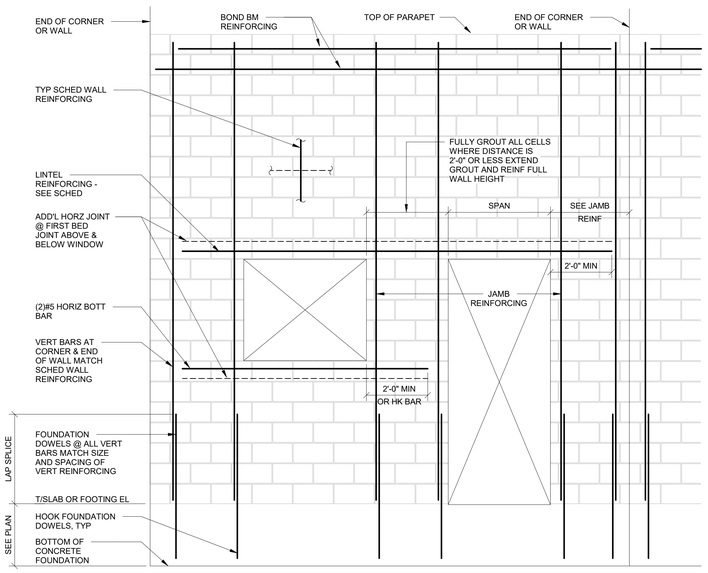
NOTES:
1. LAP HORIZONTAL LADDER REINFORCEMENT 12" MINIMUM.
2. ALTERNATE CMU COURSES, TYP.

7 S-4.01 TYPICAL REINFORCING AT 8" LOAD BEARING CMU WALL
3/4" = 1'-0"



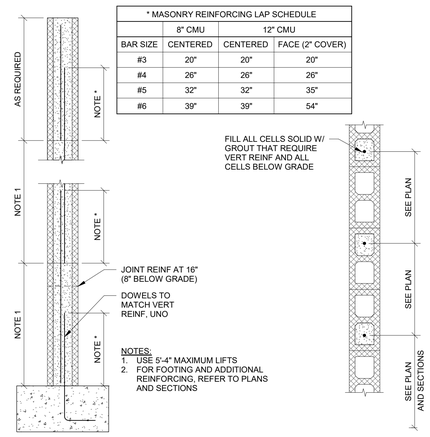
NOTES:
1. VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY.
2. IF VERTICAL REINFORCEMENT IS CUT AT JOIST BEARING PROVIDE EQUAL VERTICAL REINFORCEMENT IN ADJACENT CELL.

3 S-4.01 TYPICAL 8" CMU WALL AT JOIST (PERPENDICULAR)
3/4" = 1'-0"



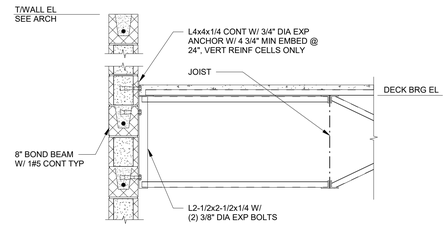
17 S-4.01 REINFORCEMENT MASONRY WALL ELEVATION
1/2" = 1'-0"

NOTES
1. ALL REINFORCING SHOWN IN ADDITION TO SCHEDULED WALL REINFORCEMENT.
2. ALL REINFORCING SHALL BE SOLID GROUTED USING 2500 PSI (SPEC COURSE GROUT).
3. REFER TO PLANS, GENERAL NOTES, AND WALL ELEVATIONS FOR TYPICAL VERTICAL AND HORIZONTAL WALL REINFORCEMENT.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF CONTROL JOINTS.
5. USE VERT BAR POSITIONERS AT 4 FT.
6. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM BLOCKS EXCEPT JOINT REINFORCING.
7. HORIZONTAL REINFORCEMENT SHALL BE DISCONTINUOUS THROUGH CONTROL JOINTS EXCEPT BOND BEAMS AT ROOF, FLOORS AND AT MASONRY LINTELS.
8. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT FIRST BED JOINT ABOVE AND BELOW OPENINGS AND EXTEND 1'-0" BEYOND THE OPENING.
9. COORDINATE LOCATION OF SOUND BLOCK IF SPECIFIED WITHIN REINFORCED CMU WALLS WITH ARCHITECTURAL INTERIOR ELEVATION DRAWINGS.



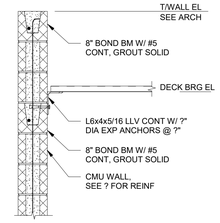
NOTES:
1. USE 5'-4" MAXIMUM LIFTS
2. FOR FOOTING AND ADDITIONAL REINFORCING, REFER TO PLANS AND SECTIONS

5 S-4.01 TYPICAL REINFORCED CMU WALL
3/4" = 1'-0"



NOTES:
1. VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY.

2 S-4.01 TYPICAL 8" CMU WALL AT JOIST (PARALLEL)
3/4" = 1'-0"



1 S-4.01 TYPICAL BRACING AT CMU WALL AT ROOF DECK (PARAPET)
3/15" = 1'-0"

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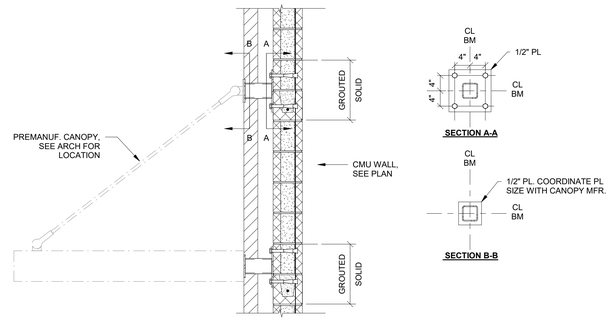
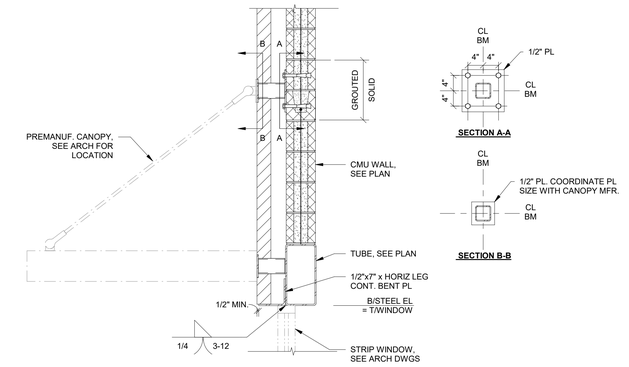
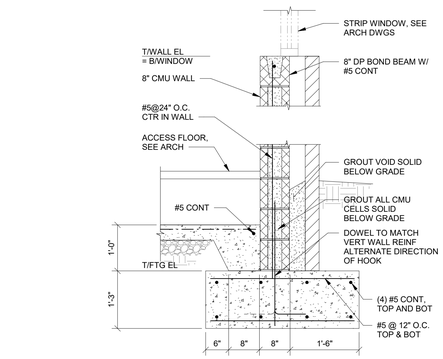


3 S-4.02 TYPICAL CANOPY CONNECTION AT CMU WALL
3/4" = 1'-0"



2 S-4.02 SECTION AT TUBE STEEL LINTEL/CANOPY SUPPORT
3/4" = 1'-0"



TYPICAL JAMB AT WINDOW AT ACCESS FLOOR

1 S-4.02 3/4" = 1'-0"

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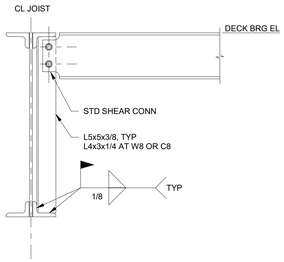
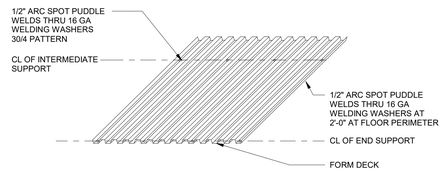
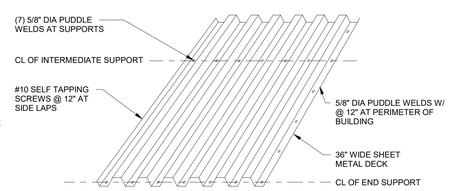


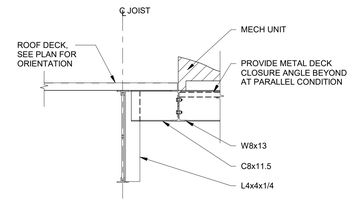
20 S-5.01 TYPICAL BEAM TO JOIST CONNECTION
3/4" = 1'-0"



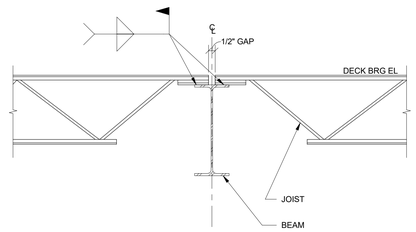
16 S-5.01 TYPICAL FLOOR DECK ATTACHMENT (FORM DECK)
3/4" = 1'-0"



12 S-5.01 TYPICAL ROOF DECK ATTACHMENT (36" WIDE SHEET)
3/4" = 1'-0"

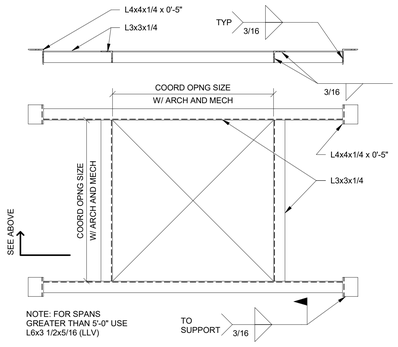


8 S-5.01 TYPICAL ROOF DECK AT METAL MECHANICAL UNIT SUPPORT
3/4" = 1'-0"

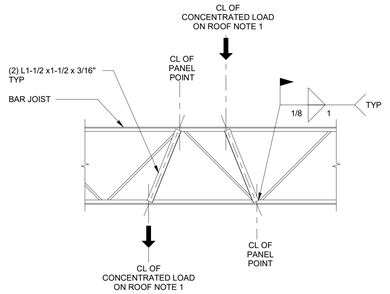


NOTES:
1. WHEN SUPPORT WIDTH DOES NOT MEET MIN SJI JOIST BEARING REQUIRED LAP JOISTS SIDE BY SIDE AT SUPPORT FOR MINIMUM BEARING.
2. WHERE JOISTS ARE 30% LONGER THAN JOISTS ON OPPOSITE SIDE, LAP JOISTS W/ FULL BEAM FLANGE BEARING.

4 S-5.01 TYPICAL JOIST TO BEAM INTERIOR CONNECTION
3/4" = 1'-0"

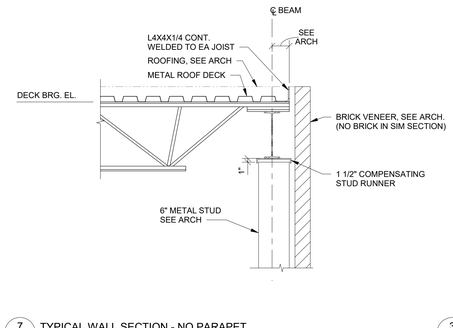


19 S-5.01 TYPICAL FRAMING AT ROOF DECK OPENING
3/4" = 1'-0"

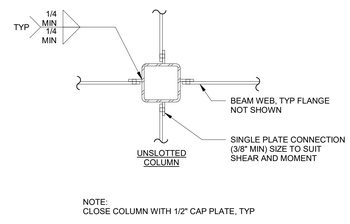


NOTES:
1. CONCENTRATED LOAD GREATER THAN 100 LBS BUT NOT TO EXCEED 300 LBS. MAX OF 2 LOADS TOTAL PER JOIST.
2. ANGLES ARE NOT REQUIRED WHERE CONCENTRATED LOAD IS WITHIN 6" OF PANEL POINT.

15 S-5.01 TYPICAL JOIST REINFORCEMENT (CONCENTRATED LOAD)
3/4" = 1'-0"

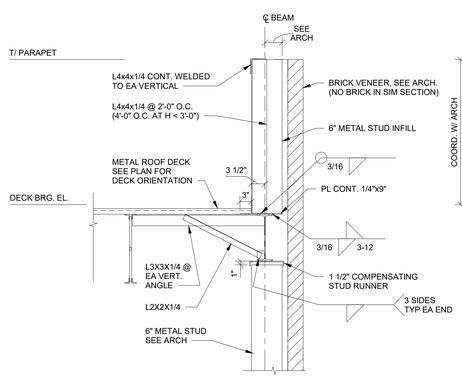


7 S-5.01 TYPICAL WALL SECTION - NO PARAPET
3/4" = 1'-0"

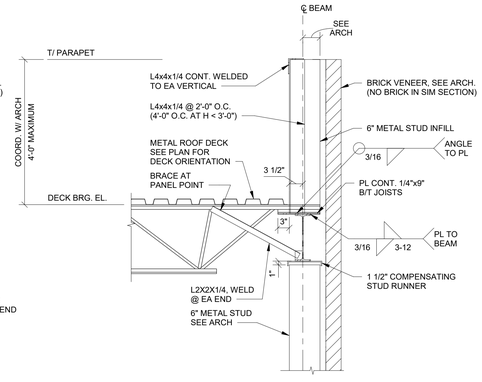


NOTE:
CLOSE COLUMN WITH 1/2" CAP PLATE, TYP

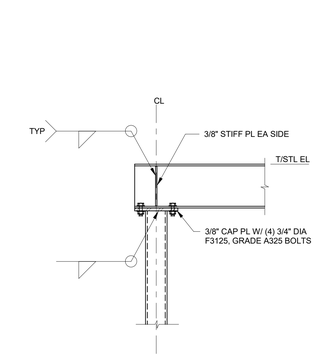
3 S-5.01 TYPICAL TUBE COLUMN CONNECTIONS
3/4" = 1'-0"



10 S-5.01 TYPICAL PARAPET SECTION - PARALLEL
3/4" = 1'-0"



6 S-5.01 TYPICAL PARAPET SECTION - PERPENDICULAR
3/4" = 1'-0"



2 S-5.01 TYPICAL END COLUMN CAP PLATE CONNECTION
3/4" = 1'-0"

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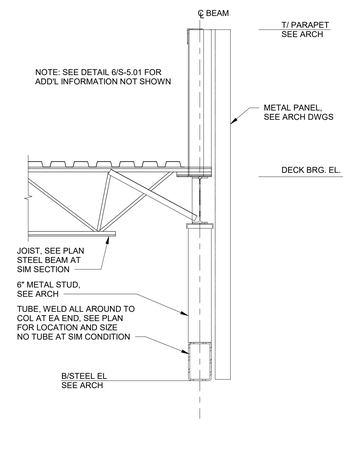
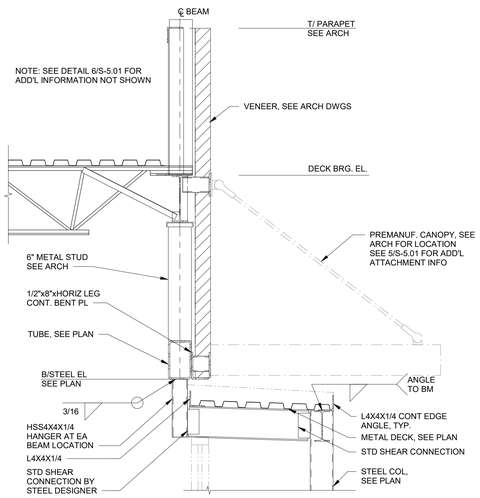
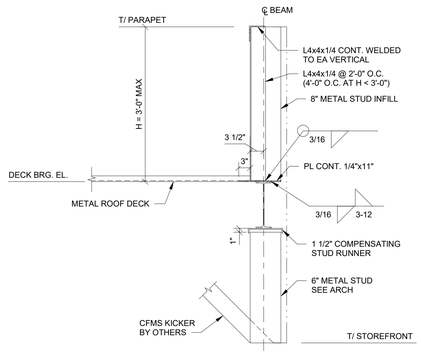


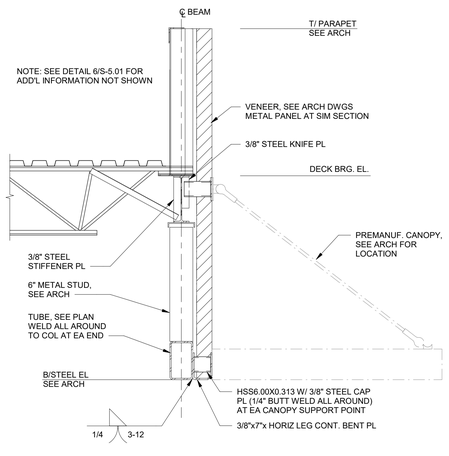
17 S-5.01 SECTION AT STEEL LINTEL
3/4" = 1'-0"



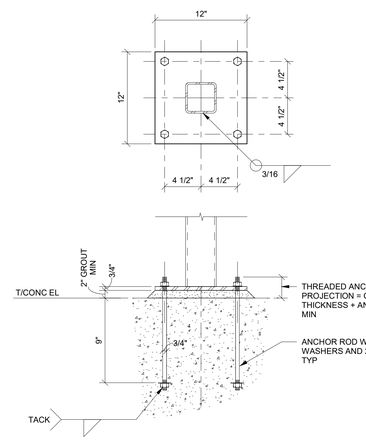
13 S-5.01 SECTION AT VESTIBULE CANOPY
3/4" = 1'-0"



9 S-5.01 TYPICAL STOREFRONT SECTION - PARALLEL
3/4" = 1'-0"



5 S-5.01 TYPICAL SECTION AT CANOPY
3/4" = 1'-0"



1 S-5.01 TYPICAL BASE PLATE AND ANCHOR BOLT (TUBE)
3/4" = 1'-0"

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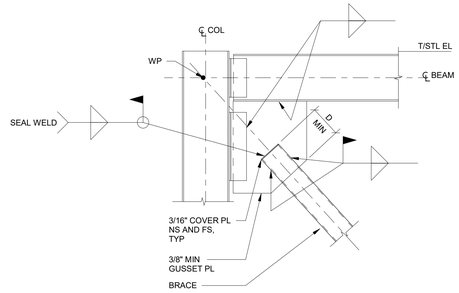
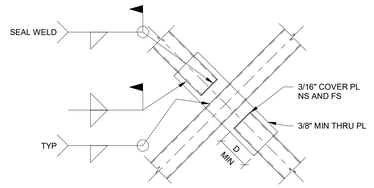


NOTE:
GUSSET PL, SHEAR CONNECTION AND WELDS TO BE SIZED BY SUPPLIER.

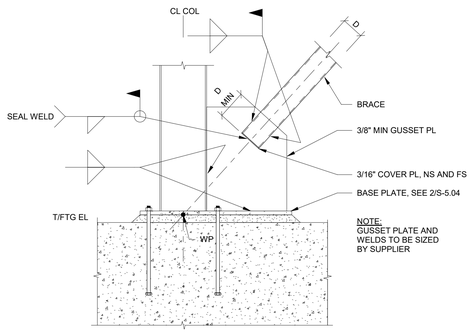
4 S-5.04 TYPICAL VERTICAL BRACE AT END COLUMN AT ROOF
3/4" = 1'-0"

BASE PLATE AND ANCHOR BOLT SCHEDULE						
COLUMN SIZE	BASE PLATE		ANCHOR BOLTS			WELD
	A	X	E	F	NO	W
HSS6X6	3/4"	AS REQ'D	3/4"	12"	6	5/16



NOTE:
THRU PL AND WELDS TO BE SIZED BY SUPPLIER

7 S-5.04 TYPICAL VERTICAL BRACE INTERSECTION
3/4" = 1'-0"



6 S-5.04 TYPICAL VERTICAL BRACE AT FOUNDATION
3/4" = 1'-0"

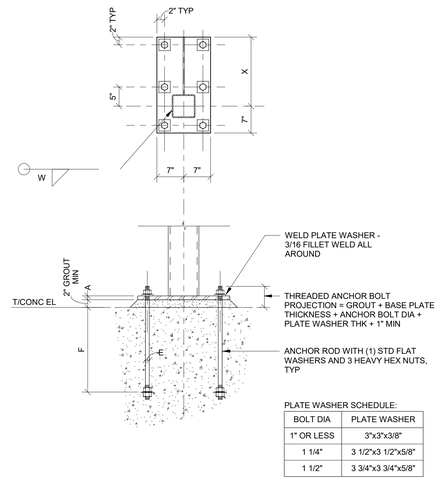
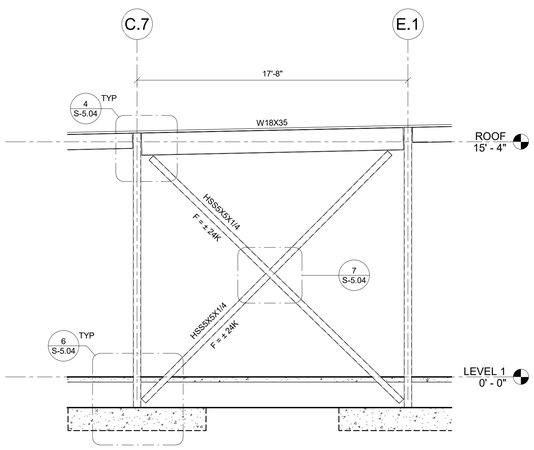


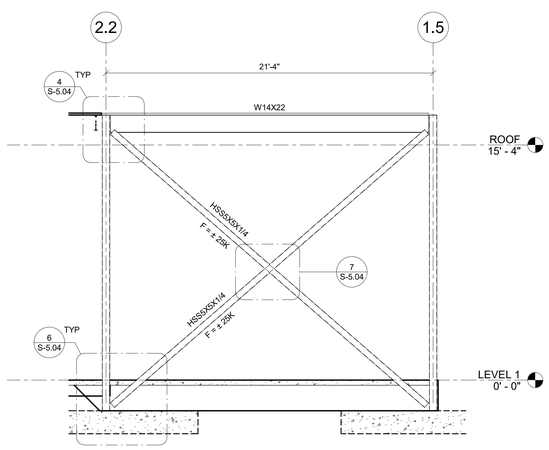
PLATE WASHER SCHEDULE:

BOLT DIA	PLATE WASHER
1" OR LESS	3"x3"x3/8"
1 1/4"	3 1/2"x3 1/2"x5/8"
1 1/2"	3 3/4"x3 3/4"x5/8"

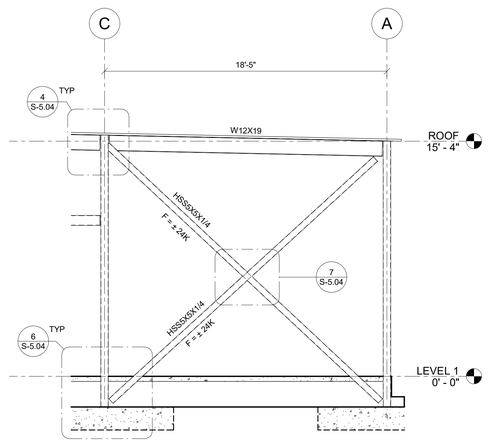
2 S-5.04 TYPICAL BASE PLATE AND ANCHOR BOLT (BRACE FRAME)
3/4" = 1'-0"



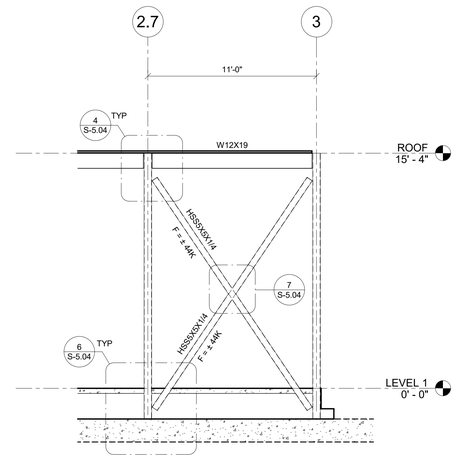
13 S-5.04 ELEVATION ALONG CL 3
1/4" = 1'-0"



9 S-5.04 ELEVATION ALONG CL L
1/4" = 1'-0"



5 S-5.04 ELEVATION CL 1
1/4" = 1'-0"



1 S-5.04 ELEVATION ALONG CL A
1/4" = 1'-0"

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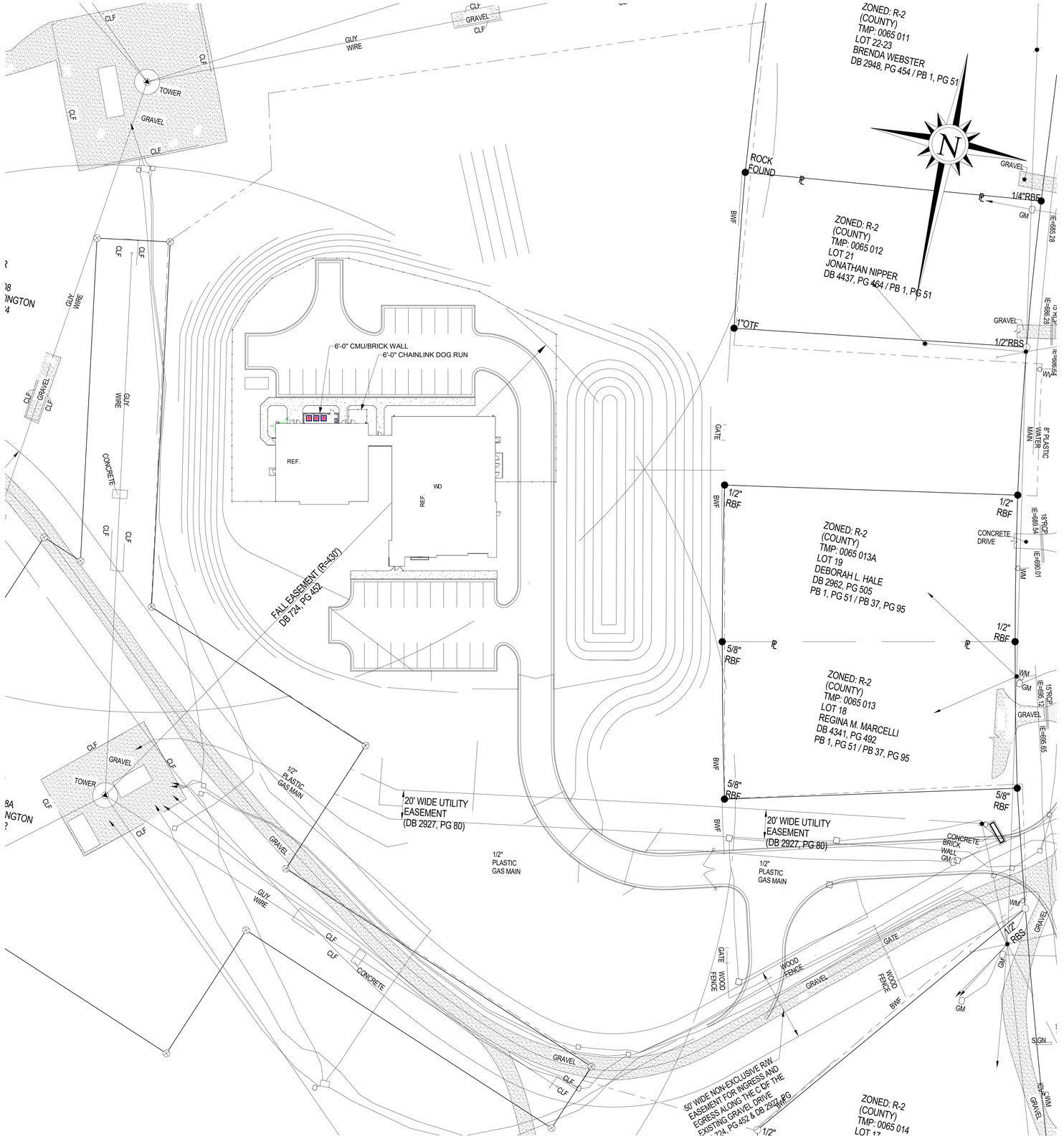

1 **SP01 - ARCHITECTURAL SITE**
SCALE: 1" = 30'-0"

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6/19/2025 12:26:49 PM

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
(678) 664-8051
SHEARSTRUCTURAL.COM

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ARCHITECTURAL SITE PLAN

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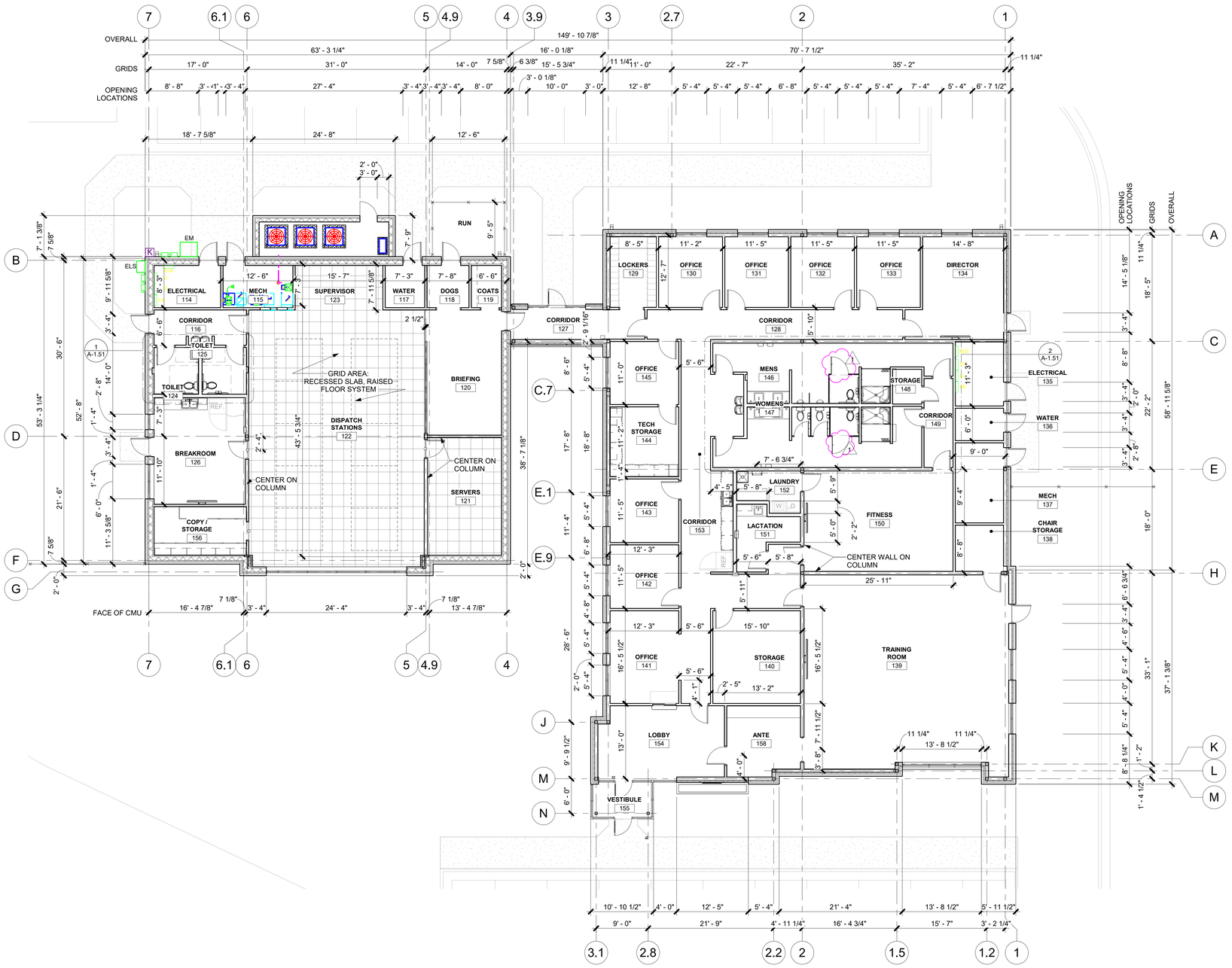
FLOOR PLAN GENERAL NOTES

1. ALL DOOR FRAMES IN METAL STUD WALLS SHALL BE SET 4" FROM PERPENDICULAR WALLS ADJACENT TO DOOR HINGE SIDE, U.N.O.
2. ALL DOOR FRAMES IN CMU WALLS SHALL BE SET 8" FROM PERPENDICULAR WALLS ADJACENT TO DOOR HINGE SIDE, U.N.O.
3. LOCATE CORNER GUARDS (C.G.) AS SHOWN ON THE PLANS.
4. THE FINISH ELEVATIONS OF EXIT LANDINGS SHALL NOT EXCEED A MAXIMUM OF 1/2" BELOW THRESHOLDS.



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1 **DIMENSION PLAN**
SCALE: 1/8" = 1'-0"

N

GRAPHIC SCALE
0 4 8 16

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Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

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931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
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Sheet Title
DIMENSION PLAN

Sheet No.
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FLOOR PLAN GENERAL NOTES

1. ALL DOOR FRAMES IN METAL STUD WALLS SHALL BE SET 4" FROM PERPENDICULAR WALLS ADJACENT TO DOOR HINGE SIDE, U.N.O.
2. ALL DOOR FRAMES IN CMU WALLS SHALL BE SET 8" FROM PERPENDICULAR WALLS ADJACENT TO DOOR HINGE SIDE, U.N.O.
3. LOCATE CORNER GUARDS (C.G.) AS SHOWN ON THE PLANS.
4. THE FINISH ELEVATIONS OF EXIT LANDINGS SHALL NOT EXCEED A MAXIMUM OF 1/2" BELOW THRESHOLDS.

KEY NOTES - FLOOR PLAN	
KEYNOTE#	DESCRIPTION
F-1	LINE WALLS WITH 1/2" PLYWOOD FOR EQUIPMENT MOUNTING.
F-2	TIME CLOCK
F-3	6FT TALL CHAIN LINK FENCE
F-4	PROVIDE IN WALL BLOCKING FOR TV/MONITOR
F-5	STOREFRONT WINDOW MUST BE LEVEL 4 BULLET RESISTANT AND MEET UL 752
F-6	IN THIS ROOM PROVIDE A RECESSED SLAB AND RAISED PLATE FLOORING. SEE ID-2.01 FOR FLOOR COVERING.
F-7	LOUVERS; SEE MECH DWGS
F-8	SITE CHAIN LINK FENCE
F-9	ADA DOOR PUSH BUTTON BALLARD
F-10	BUILDING SIGNAGE

BRAVO BLDG SET 03-23-2026

1 **REFERENCE PLAN**
SCALE: 1/8" = 1'-0"

N

GRAPHIC SCALE
0 4 8 16

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SUNBELT BUILDERS

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REFERENCE PLAN

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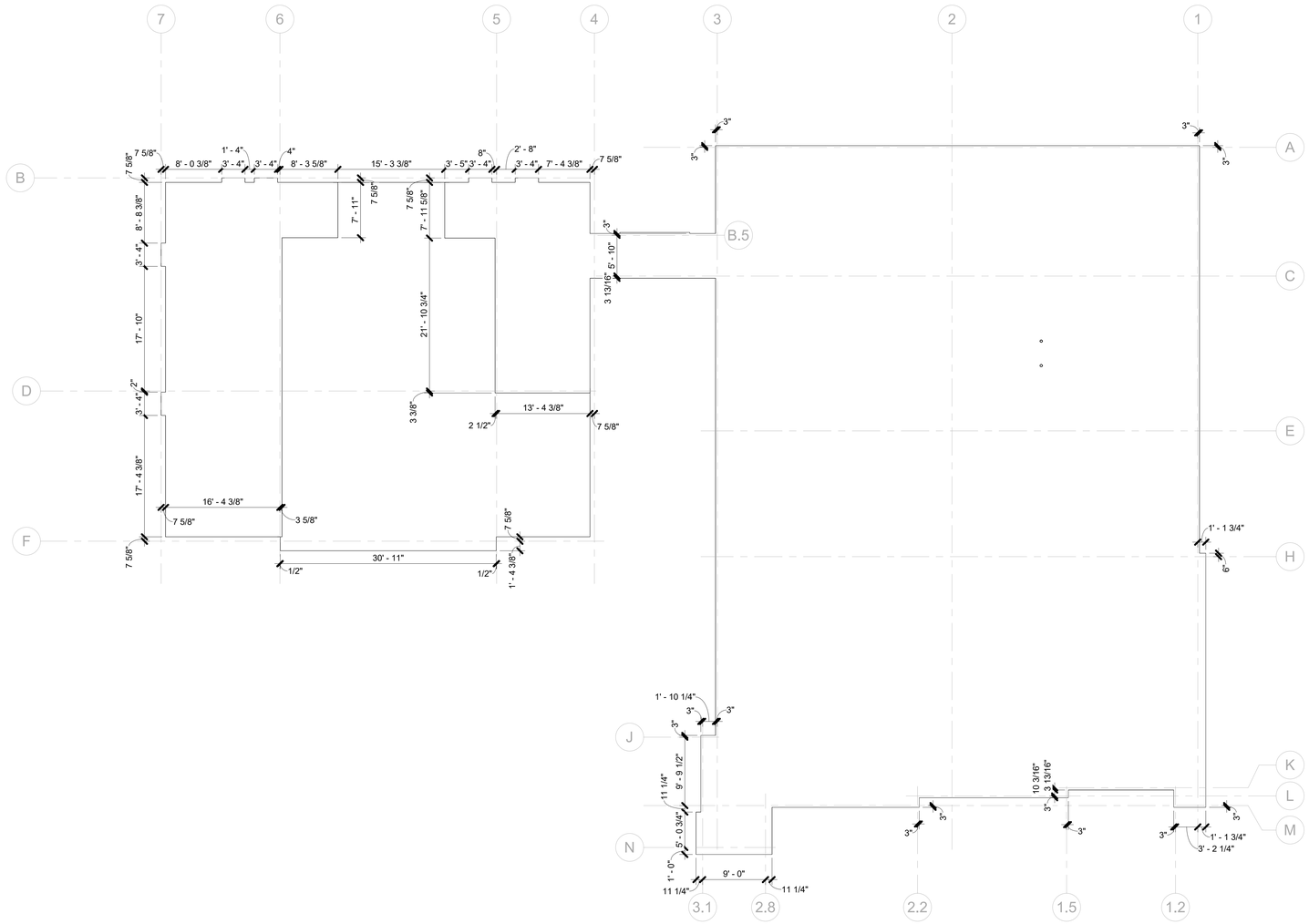

1 SLAB EDGE PLAN

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

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6/19/2025 12:26:52 PM

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SUNBELT BUILDERS

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Sheet Title
SLAB EDGE PLAN

Sheet No.
A-1.02

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TOILET ACCESSORY SCHEDULE

TAG NO.	DESCRIPTION	MANUFACTURER	MODEL	FURNISHED BY CONTRACTOR	FURNISHED BY OWNER	INSTALLED BY CONTRACTOR	INSTALLED BY OWNER	COMMENTS
TA-10A	COAT HOOK	AMERICAN SPECIALTIES INC.	0714	X		X		COORDINATE COAT HOOK WITH TOILET PARTITIONS FOR GANG RESTROOMS. CONTRACTOR TO PROVIDE HOOK AT ALL OTHER LOCATIONS INDICATED IN PLANS. 1
TA-A-01	1-1/2" DIA, 36 x 42 ADA GRAB BARS	BOBRICK	B-6806x36; B-6806x42	X		X		
TA-B-01	WALL MOUNTED SOAP DISPENSER	BOBRICK	B-4069	X		X		
TA-C-01	TOWEL DISPENSER/WASTE RECEPTACLE - RECESSED	BOBRICK	B-369	X		X		
TA-C-04	HAND DRYER	BOBRICK	B-7128	X		X		
TA-D-08	CHANNEL-FRAME MIRROR 24x36	BOBRICK	B-165 2436	X		X		
TA-E	TOILET PAPER DISPENSER	BOBRICK	B-3588	X		X		
TA-N	SANITARY NAPKING DISPOSAL	BOBRICK	B-270	X		X		
TA-T-02	60" SHOWER ROD & CURTAIN	INPRO	B-207 X 60	X		X		

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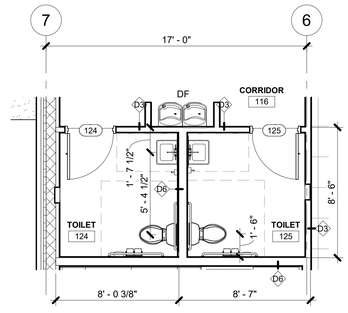
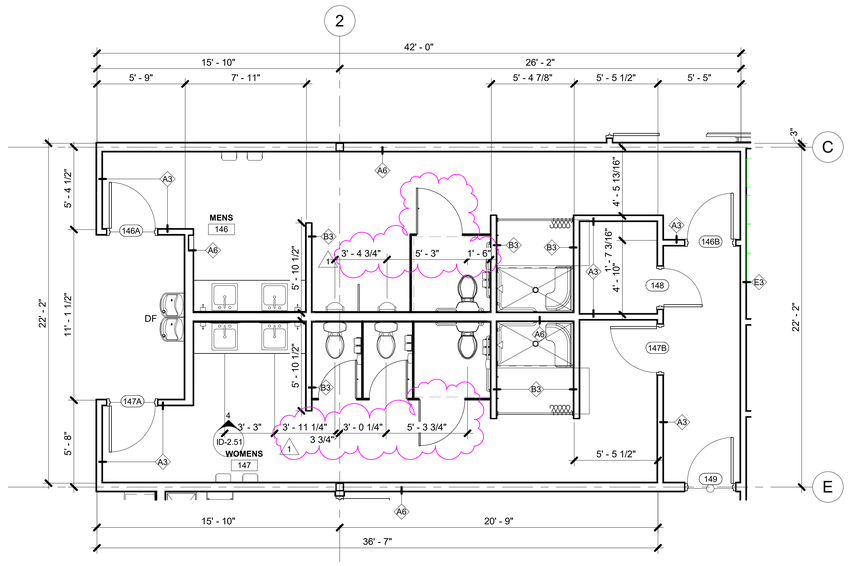


2 ENLARGED PLAN - RESTROOMS
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - MAIN RESTROOMS
SCALE: 1/4" = 1'-0"

JERICHO design group
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SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
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ENLARGED PLANS

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A-1.51

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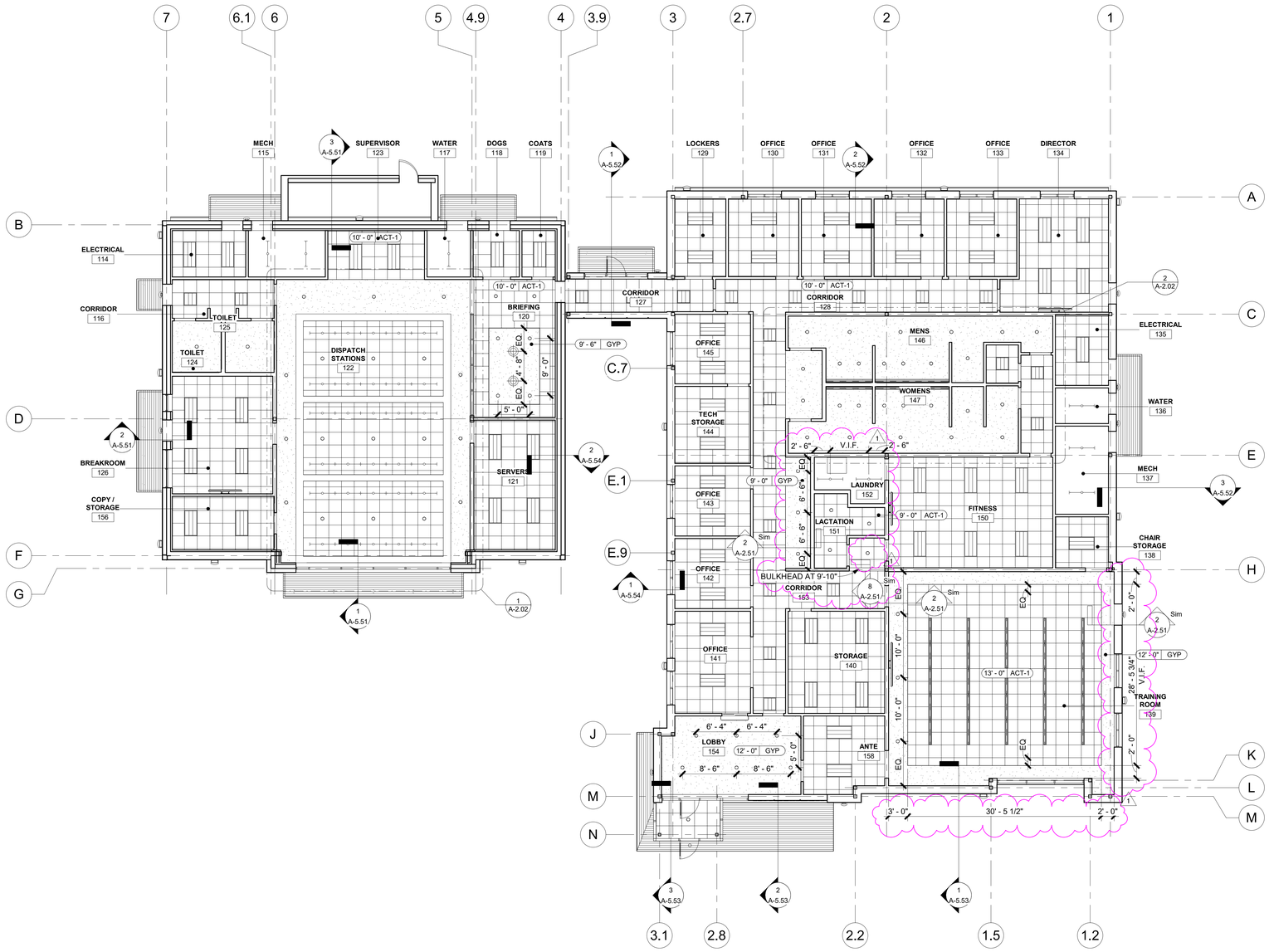

RCP LEGEND

○	DOWN LIGHT	⊛	EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)
○	WET LABEL DOWN LIGHT		
⊕	PENDANT DRUM		
▭	2X2 LAY-IN LIGHT	X' - X"	CEILING TAG
▭	2X4 LAY-IN LIGHT	⋰⋱	GYPSUM BOARD CEILING
▭	SUSPENDED LINEARLIGHT FIXTURE	▭	LAY-IN CEILING GRID
		▭	OPEN TO STRUCTURE
▬	LINEAR SLOT RECESSED	▬	LINEAR DIFFUSER
⊠	SUPPLY		
⊠	RETURN		

ACT-1: ACOUSTICAL CEILING TILE
MFR: ARMSTRONG, BASIS OF DESIGN
STYLE: CORTEGA ANGLED TEGULAR
MODEL NO: 704
EDGE: ANGLED TEGULAR
SIZE: 2' X 2' X 3/4"
COLOR: WHITE
GRID: 15/16" PRELUDE
COLOR: WHITE

RCP GENERAL NOTES

1. CONSTRUCTION PROFESSIONAL SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITH FIELD CONDITIONS, DRAWINGS AND/OR OTHER TRADES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
2. PROVIDE AND INSTALL CEILING TILE, MAIN TEES, CROSS TEES, WALL MOULDINGS AND OTHER ACCESSORIES NECESSARY TO COMPLETE THE SCOPE OF WORK.
3. ALL ADJACENT LIGHT SWITCHES SHALL BE GANGED WITH A SINGLE FACE PLATE.
4. UNLESS APPROVED BY THE ARCHITECT, ALL THERMOSTATS SHALL BE LOCATED DIRECTLY ADJACENT TO THE LIGHT SWITCH IN THE ROOM IN WHICH IT OCCURS.
5. CENTER ALL SPRINKLER HEADS IN CEILING TILES WHERE POSSIBLE. ALL SPRINKLER HEADS IN GYPSUM BOARD TO BE RECESSED & CONCEALED.
6. CENTER ALL LIGHT FIXTURES IN SPACE, U.N.O. ALL RECESSED LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES WHERE POSSIBLE, U.N.O.
7. CONSTRUCTION PROFESSIONAL WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES AT PROJECT COMPLETION.
8. NO SUBSTITUTES WILL BE ACCEPTED FOR ANY LIGHT FIXTURES UNLESS APPROVED BY ARCHITECT IN WRITING.
9. ALL EXPOSED CEILINGS PAINTED WITH DRYFALL, U.N.O.
10. **ACOUSTIC CEILING TILE AND GRID AT 10'-0" AFF TYPICAL, U.N.O.**

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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.

N

GRAPHIC SCALE
0 4 8 16

1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
(678) 664-8051
SHEARSTRUCTURAL.COM

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REFLECTED CEILING PLAN

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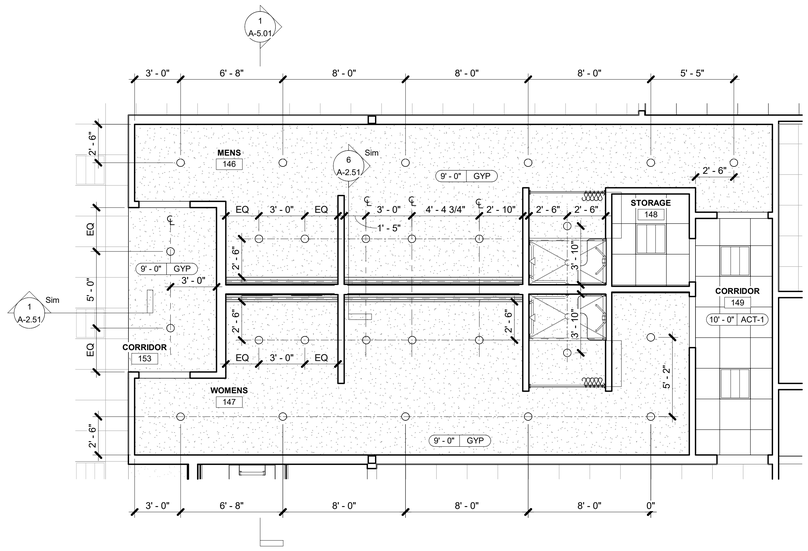
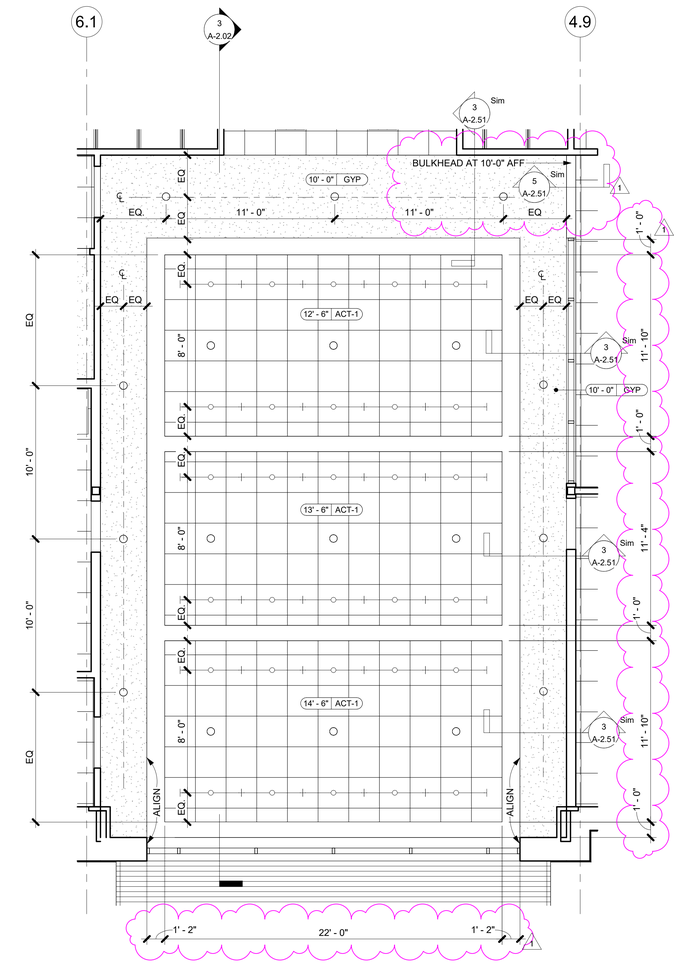


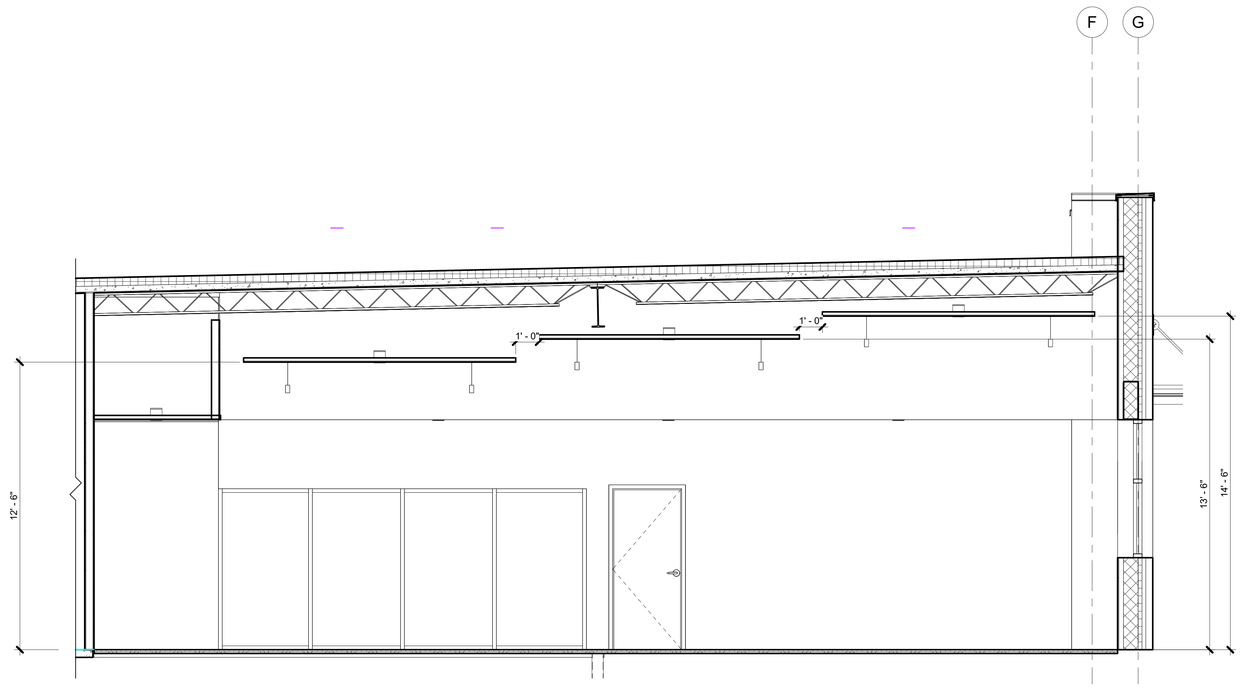
2 MAIN RESTROOM/SHOWER

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



1 DISPATCH STATION CEILING

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



3 DISPATCH

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

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ENLARGED REFLECTED CEILING PLANS

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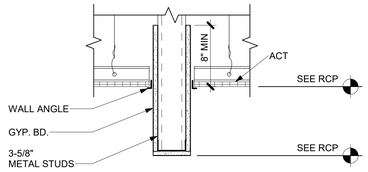
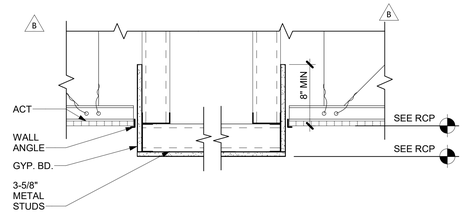
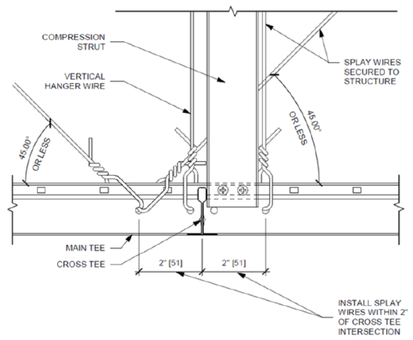


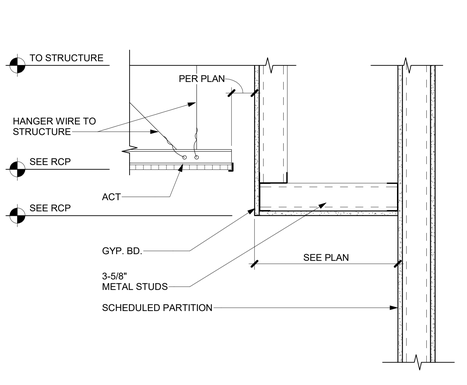
8 BULKHEAD
SCALE: 1 1/2" = 1'-0"



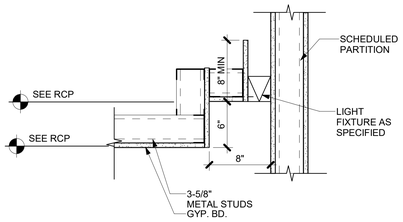
4 SOFFIT
SCALE: 1 1/2" = 1'-0"



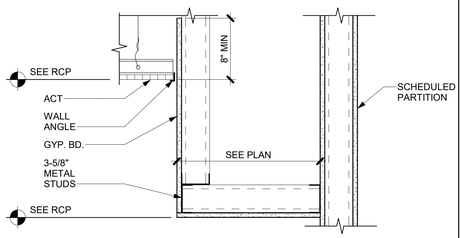
7 SEISMIC ACT GRID
SCALE: 6" = 1'-0"



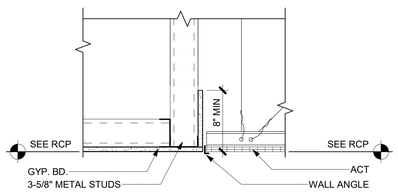
3 FLUSH SOFFIT TO PARTITION
SCALE: 1 1/2" = 1'-0"



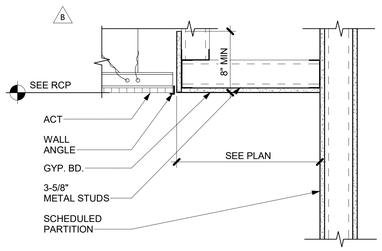
6 SOFFIT TO PARTITION
SCALE: 1 1/2" = 1'-0"



2 SOFFIT TO PARTITION
SCALE: 1 1/2" = 1'-0"



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



1 FLUSH SOFFIT TO PARTITION
SCALE: 1 1/2" = 1'-0"

JERICHO design group
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SUNBELT BUILDERS

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CEILING DETAILS

Sheet No.
A-2.51

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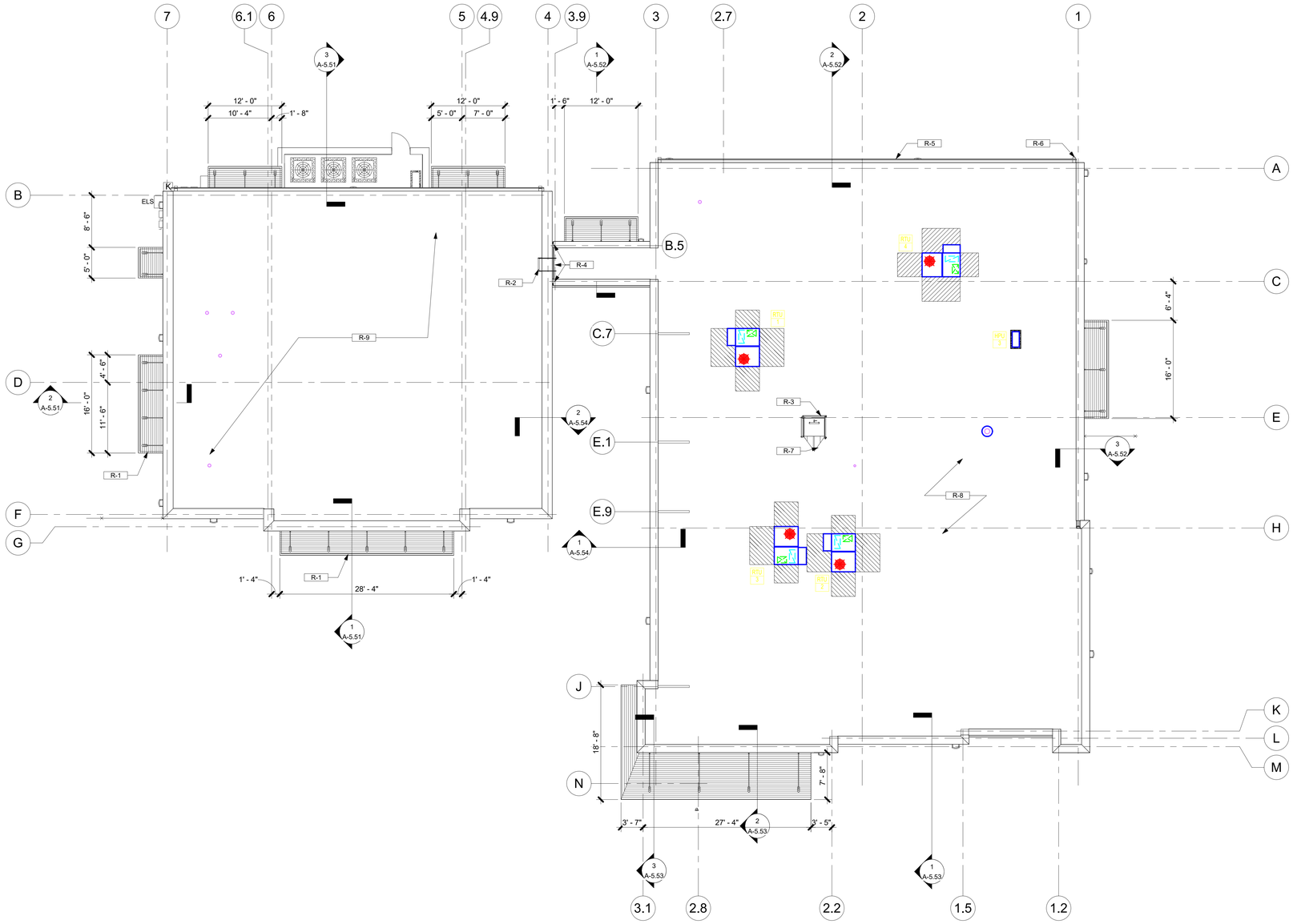
ROOF GENERAL NOTES

1. SEE MECHANICAL/PLUMBING DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2. VERIFY IN FIELD LOCATIONS OF ALL NEW ROOF PENETRATIONS WITH EXISTING STRUCTURE.
3. ALL EQUIPMENT ON ROOF TO BE MOUNTED ON CURBS, PROVIDE CRICKET TO DIVERT WATER AROUND EQUIPMENT.
4. ALL WOOD BLOCKING TO BE FIRE RETARDANT AND PRESSURE TREATED.

KEY NOTES - ROOF

KEYNOTE #	DESCRIPTION
R-1	PREFARICATED ROD HUNG CANOPY
R-2	PREFARICATED PARAPET LADDER
R-3	PREFARICATED ROOF HATCH WITH SAFTEY RAILING AND GATE. COODINATE LOCATION WITH STRUCTURE JOIST AND LADDER BELOW.
R-4	FIRE RATED EXPANSION JOINT; SIZE TO BE COORDINATED WITH STRUCTURAL DRAWINGS.
R-5	PREFINISHED GUTTER
R-6	PREFINISHED DOWNSPOUT
R-7	SLOPED INSULATION CRICKET TO BE LOCATED ON THE HIGH SIDE OF ALL ROOF TOP EQUIPMENT
R-8	TPO 80 MIL MEMBRANE
R-9	TPO 80 MIL MEMBRANE CLASS A ASSEMBLY ON THIS ROOF ONLY



BRAVO BLDG SET 03-23-2026

N

GRAPHIC SCALE

0 4 8 16

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

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(678) 664-8051
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CITY OF COVINGTON and NEWTON COUNTY

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Sheet Title
ROOF PLAN

Sheet No.
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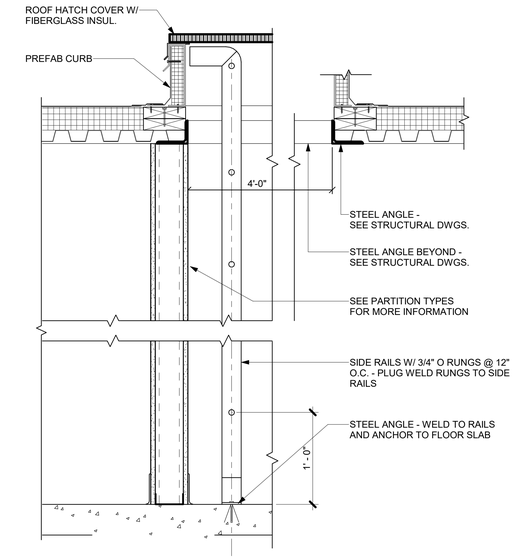
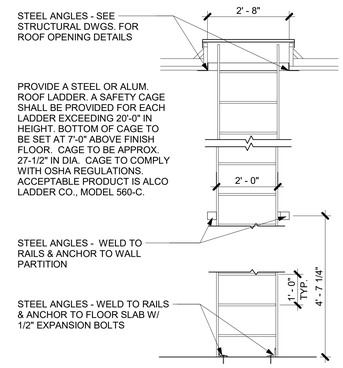


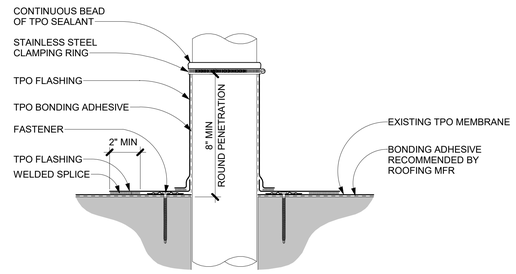
3 ROOF HATCH SECTION DETAIL

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



2 ROOF LADDER/HATCH DETAIL

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



1 EXISTING ROOF PENETRATION DETAIL

SCALE: 3" = 1'-0"

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JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
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Sheet Title
ROOF DETAILS

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EXTERIOR FINISHES

BRICK VENEER
MANUF: CHEROKEE BRICK
MODEL: VELOUR
COLOR: MAROON

STONE VENEER
MANUF: ROCKCAST
MODEL: THIN STONE VENEER
COLOR: OLD OHIO

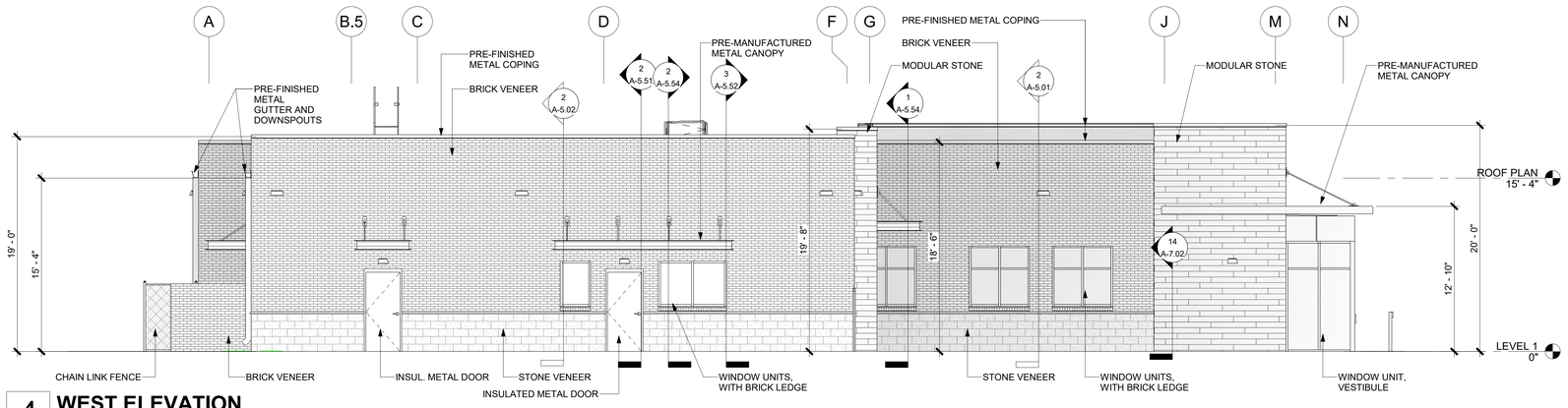
MODULAR STONE
MANUF: ROCKCAST
MODEL: MODERNO SERIES
COLOR: RATTAN

STOREFRONT
MULLION: CLEAR ANODIZED
GLAZING: SOLAR BAN 70 SOLAR GRAY

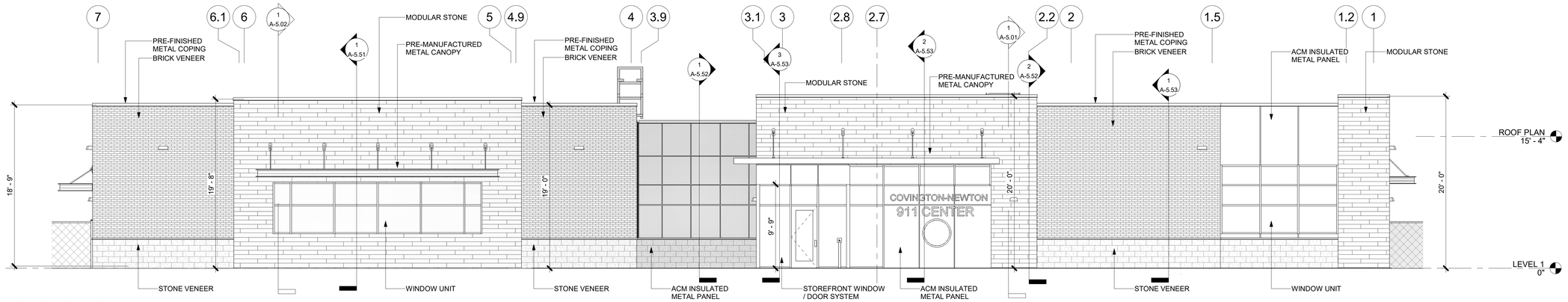
ACM INSULATED PANEL
MANUF: PAC-CLAD
COLOR: MUSKET GRAY

CANOPY
MANUF: PAC-CLAD
COLOR: MUSKET GRAY

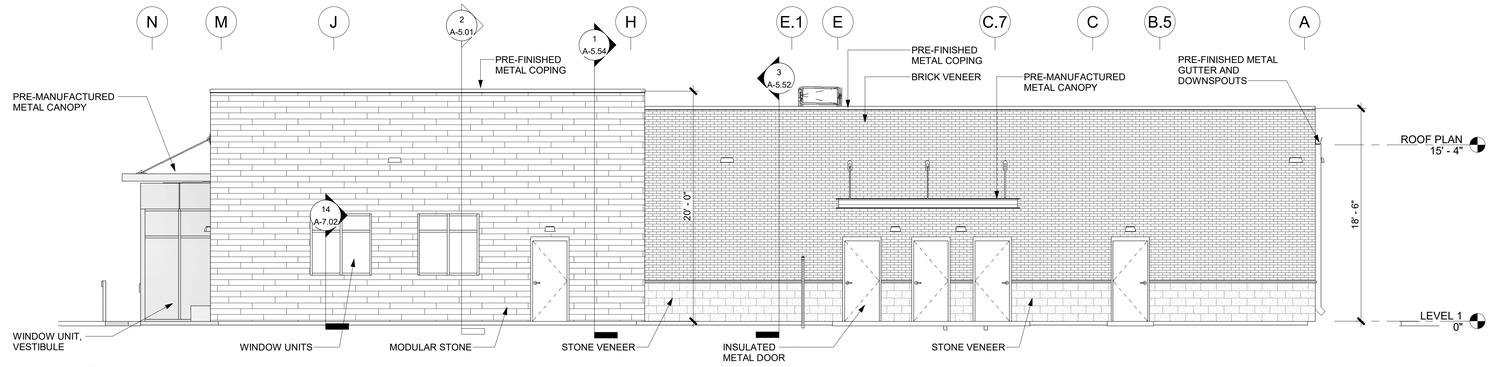
METAL COPING/ GUTTER/ DOWNSPOUT
MANUF: PAC-CLAD
COLOR: MUSKET GRAY



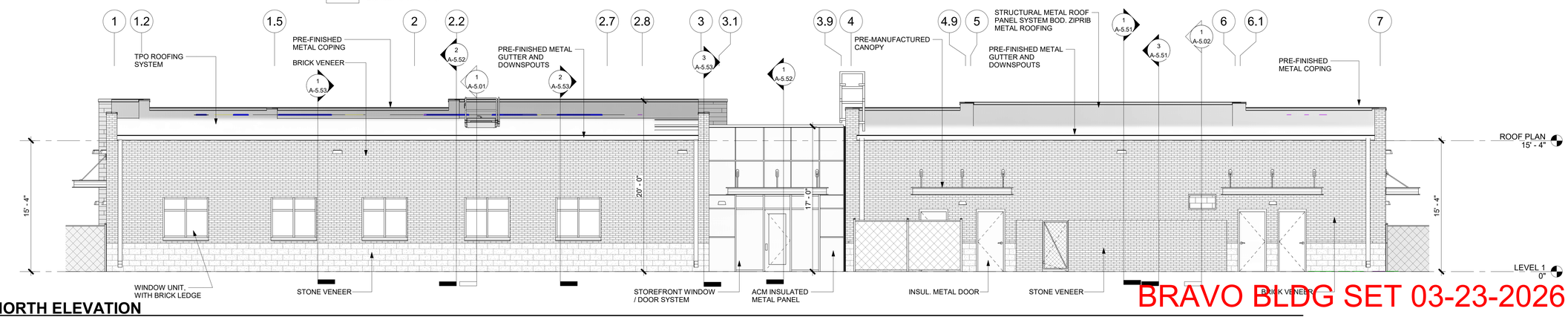
4 WEST ELEVATION
SCALE: 3/16" = 1'-0"



3 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



2 EAST ELEVATION
SCALE: 3/16" = 1'-0"



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

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208 Pirkle Ferry Road, Suite C
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SUNBELT BUILDERS

TOTAL ENGINEERS

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EXTERIOR ELEVATIONS

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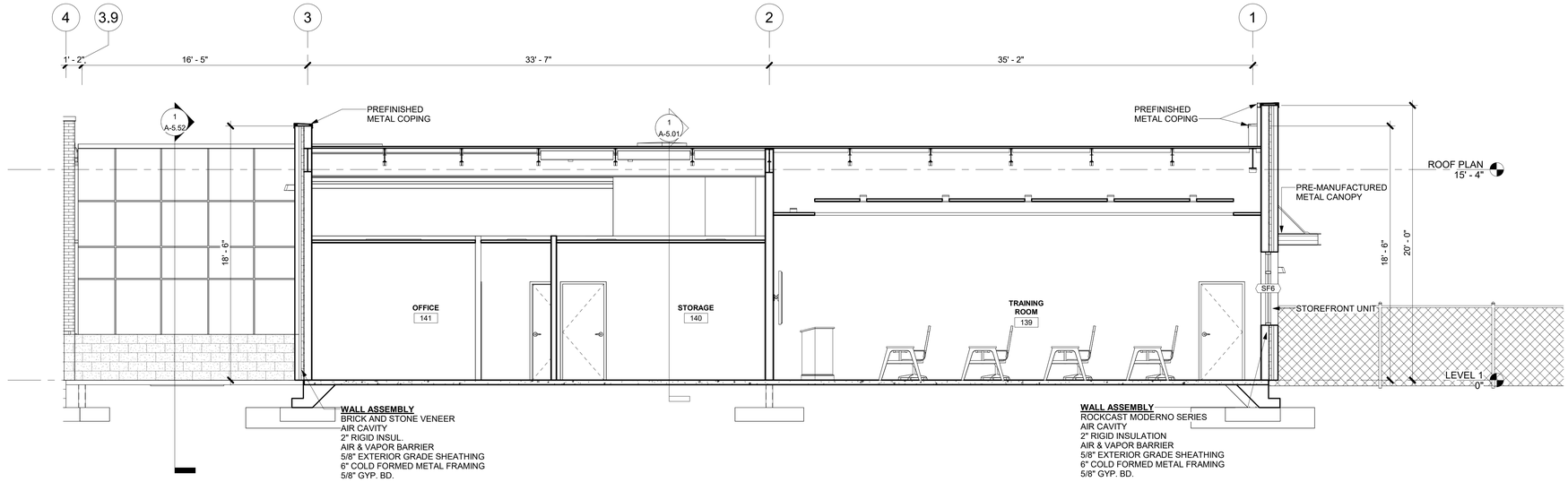
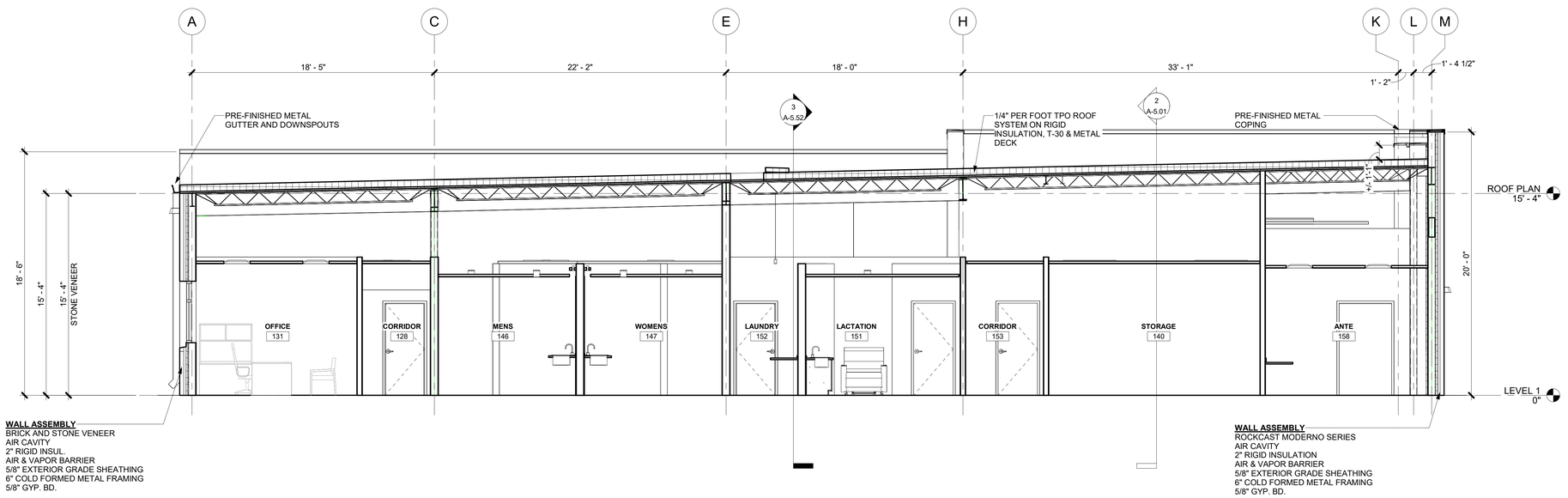


2 BUILDING SECTION

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



1 BUILDING SECTION

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

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208 Pirkle Ferry Road, Suite C
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SUNBELT BUILDERS

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Sheet Title
BUILDING SECTIONS

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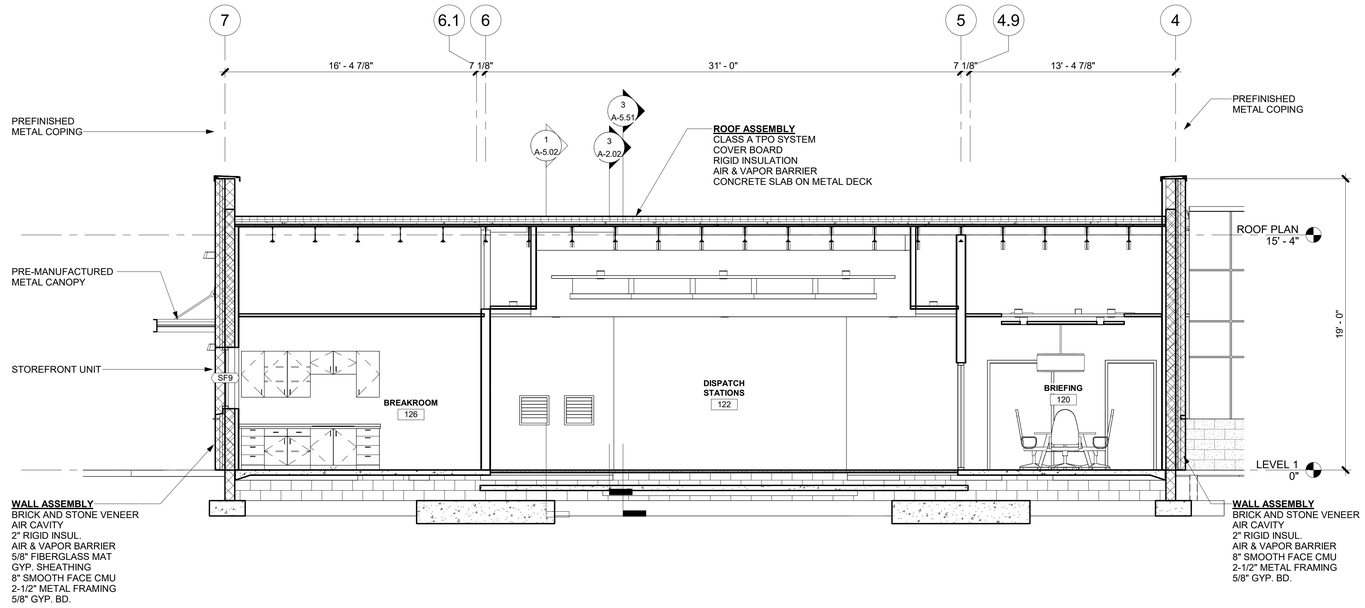
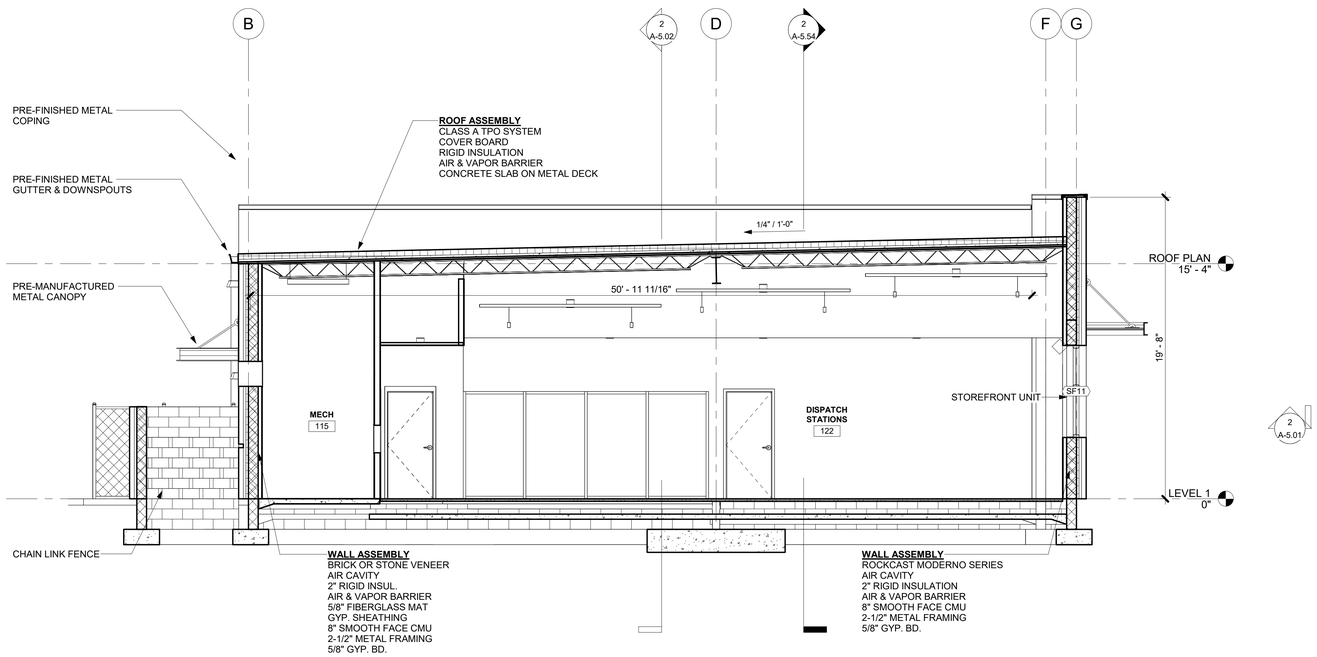


2 BUILDING SECTION

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



1 BUILDING SECTION

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

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SUNBELT BUILDERS

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Sheet Title
BUILDING SECTIONS

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A-5.02

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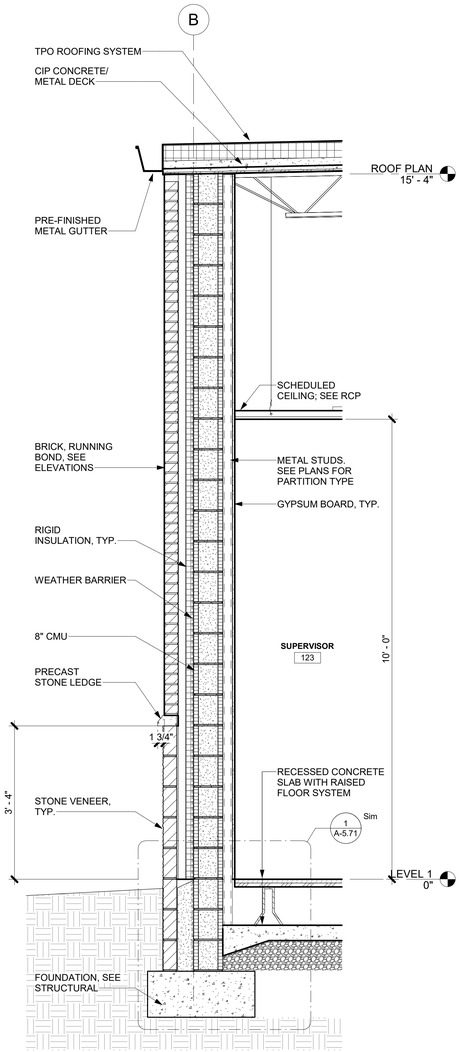
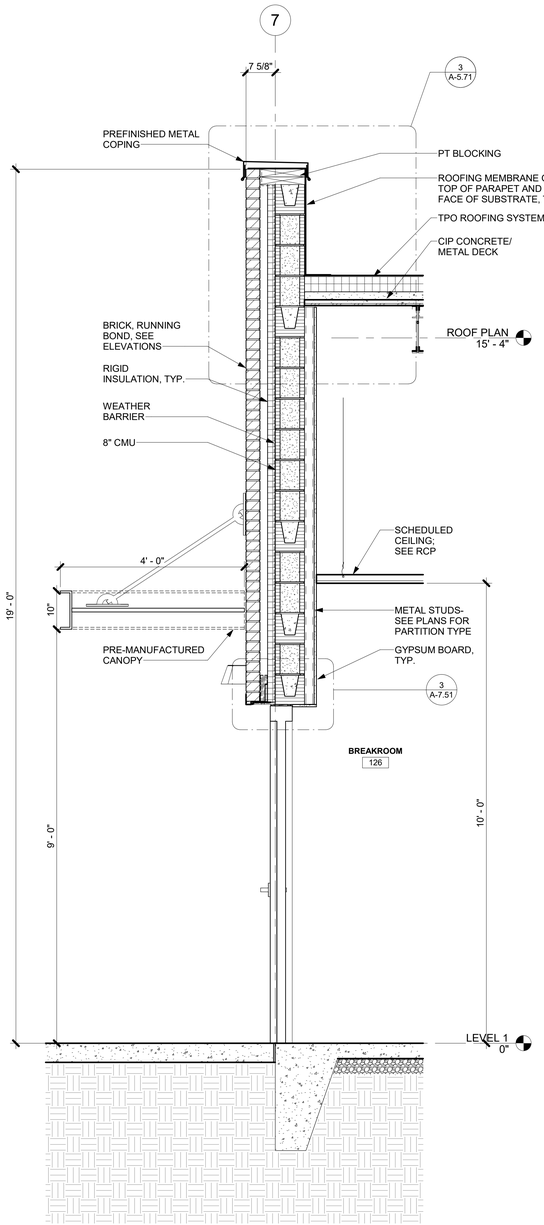
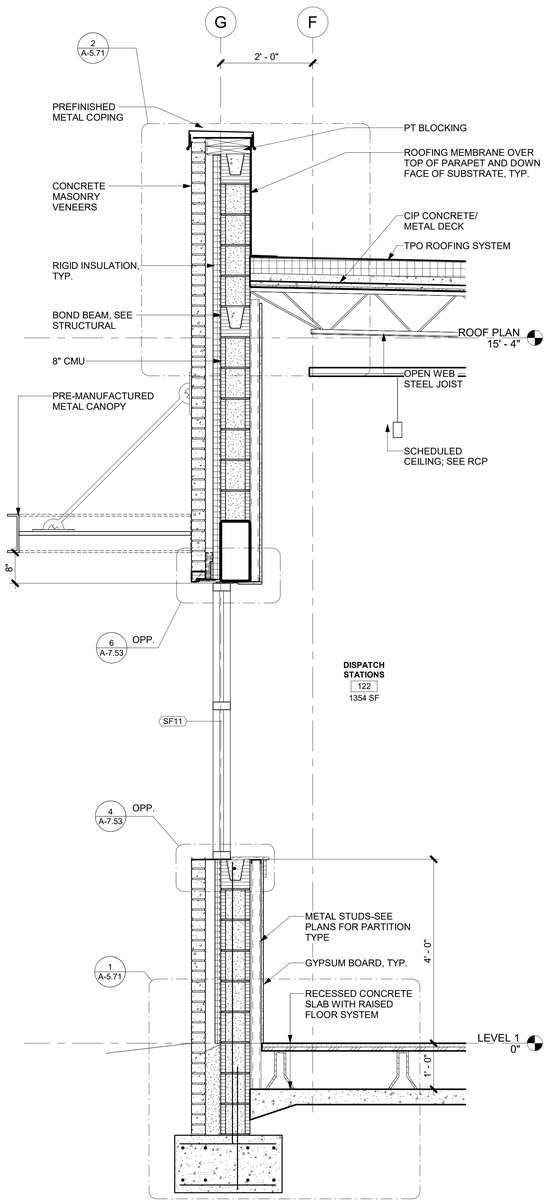


3 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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Sheet Title
WALL SECTIONS

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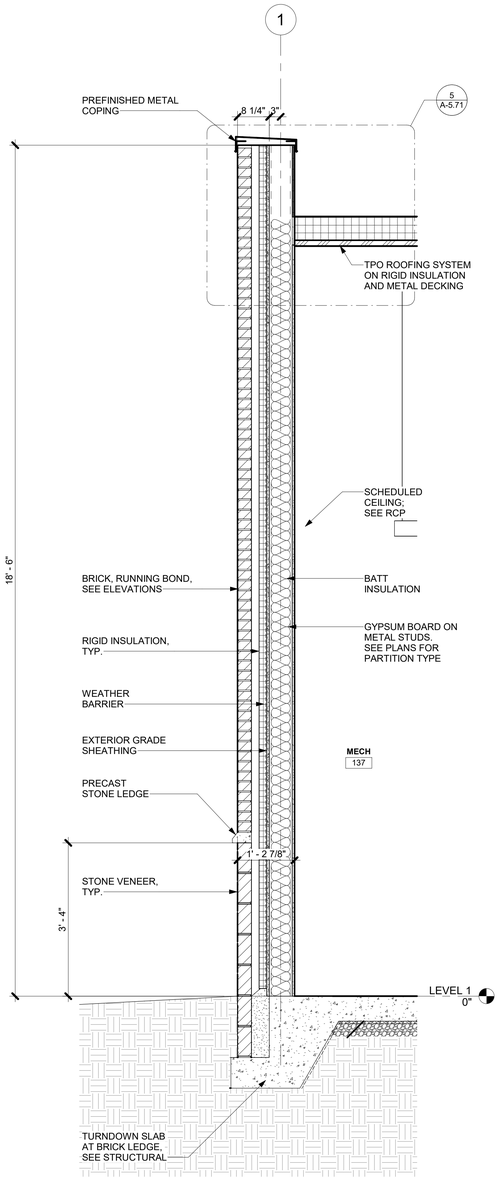
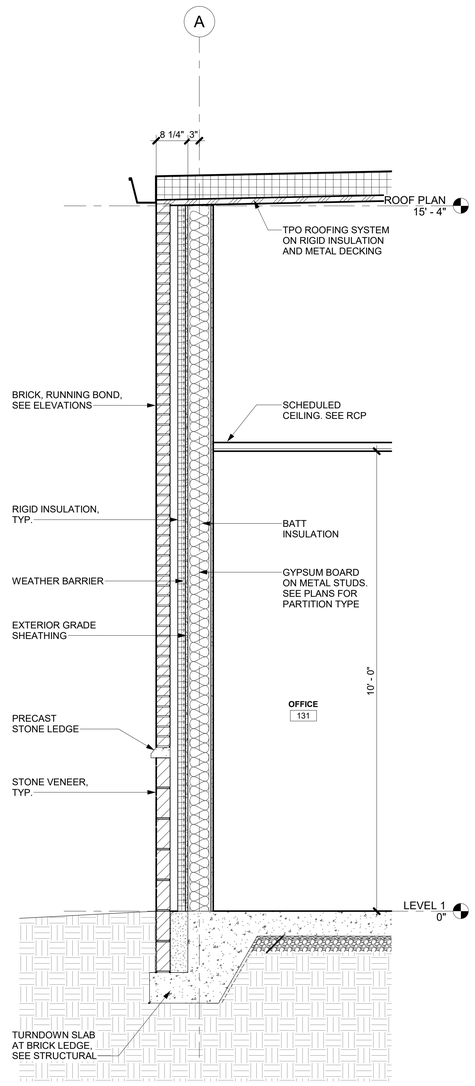
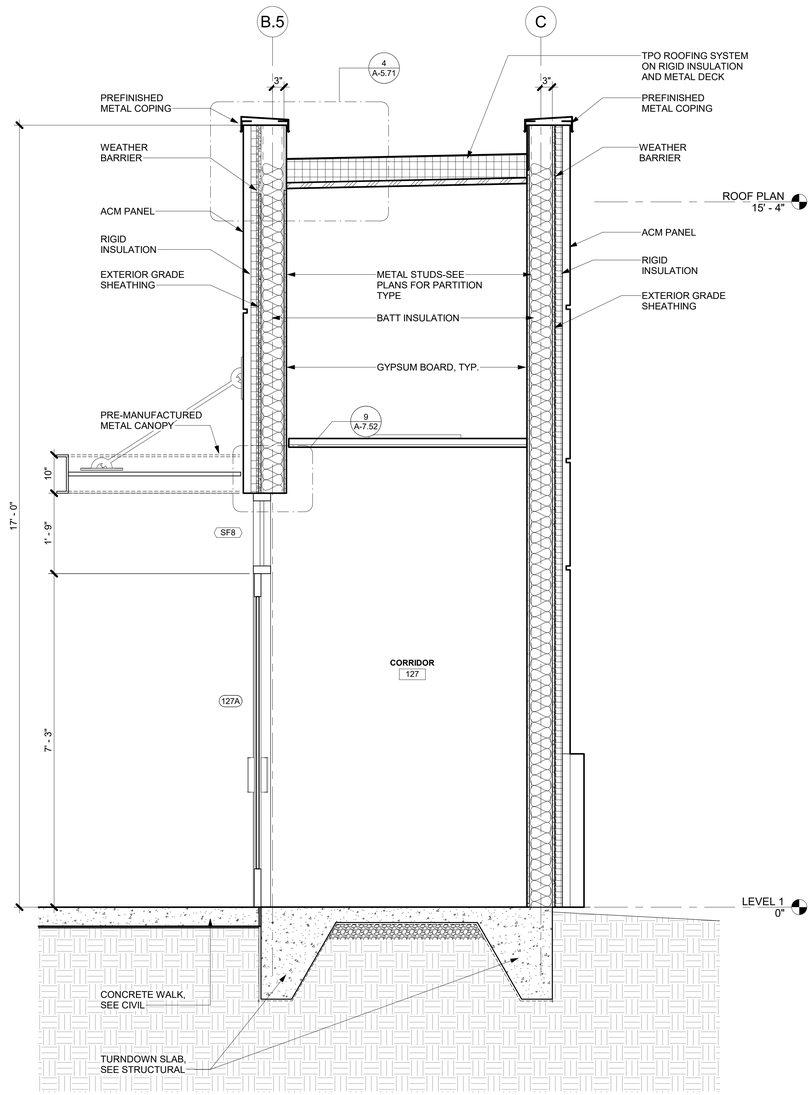


3 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION - CORRIDOR**
SCALE: 3/4" = 1'-0"

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SUNBELT BUILDERS

TOTAL ENGINEERS
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WALL SECTIONS

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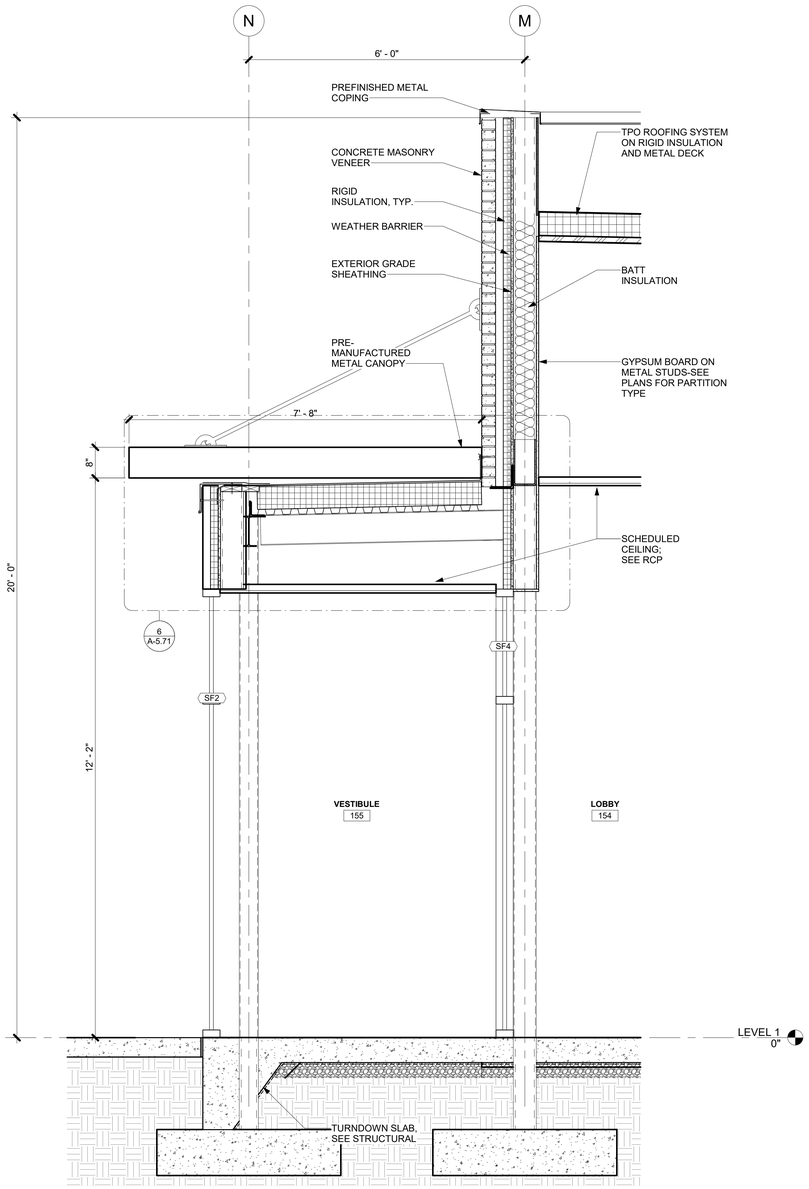
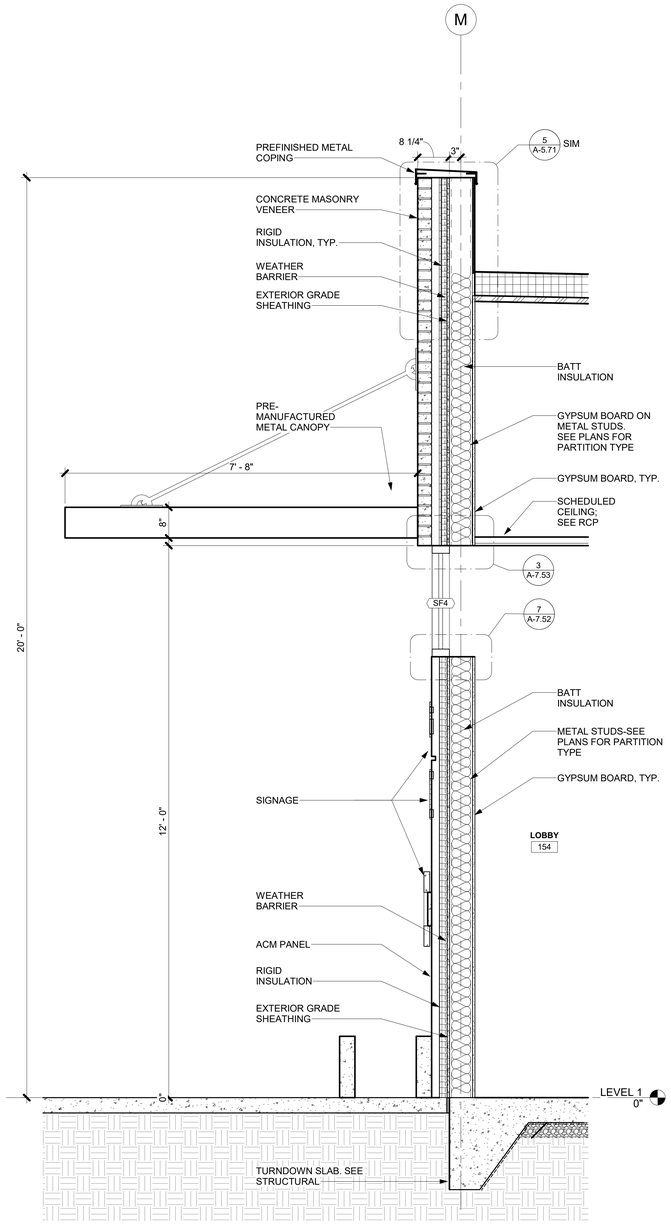
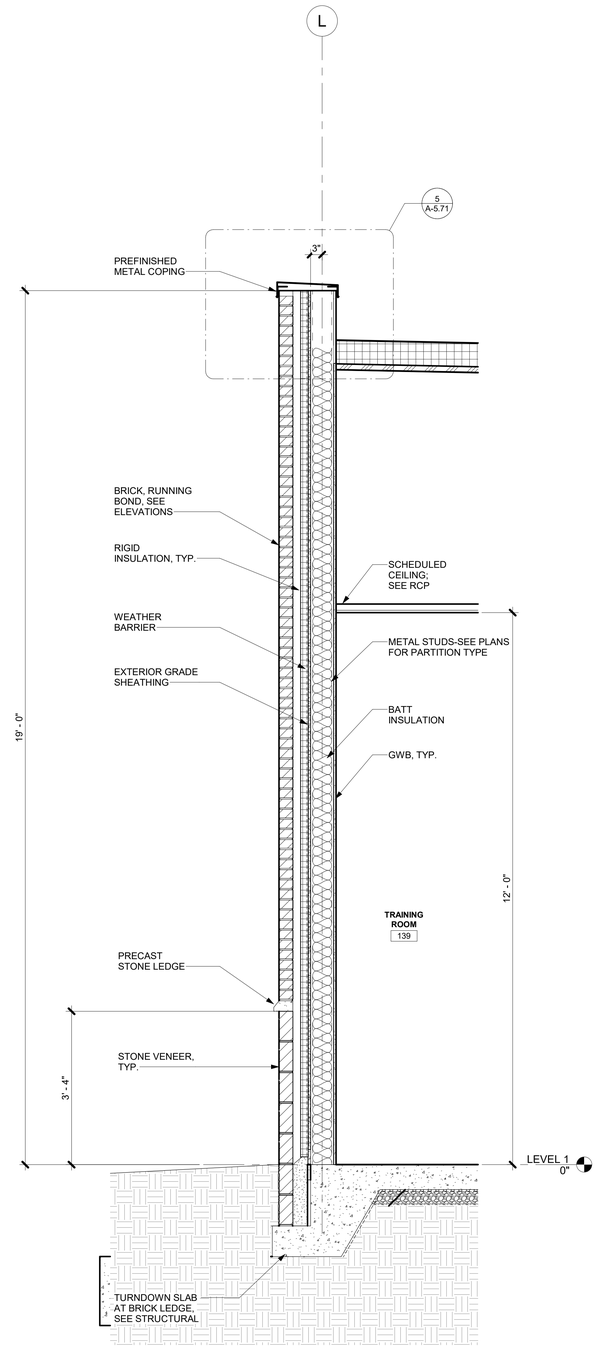


3 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
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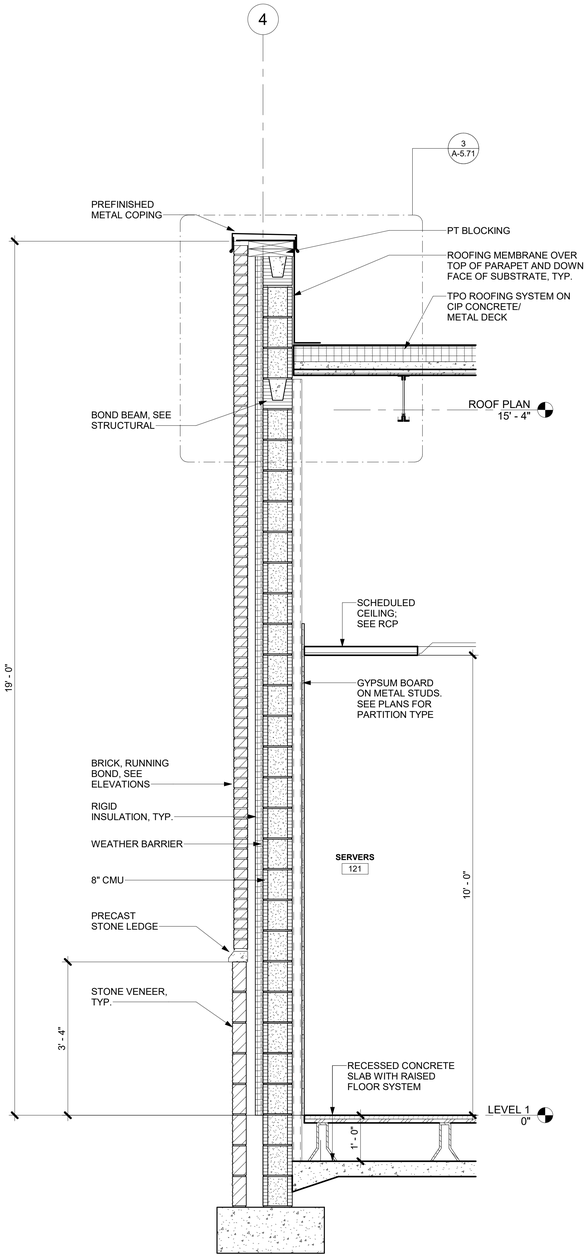
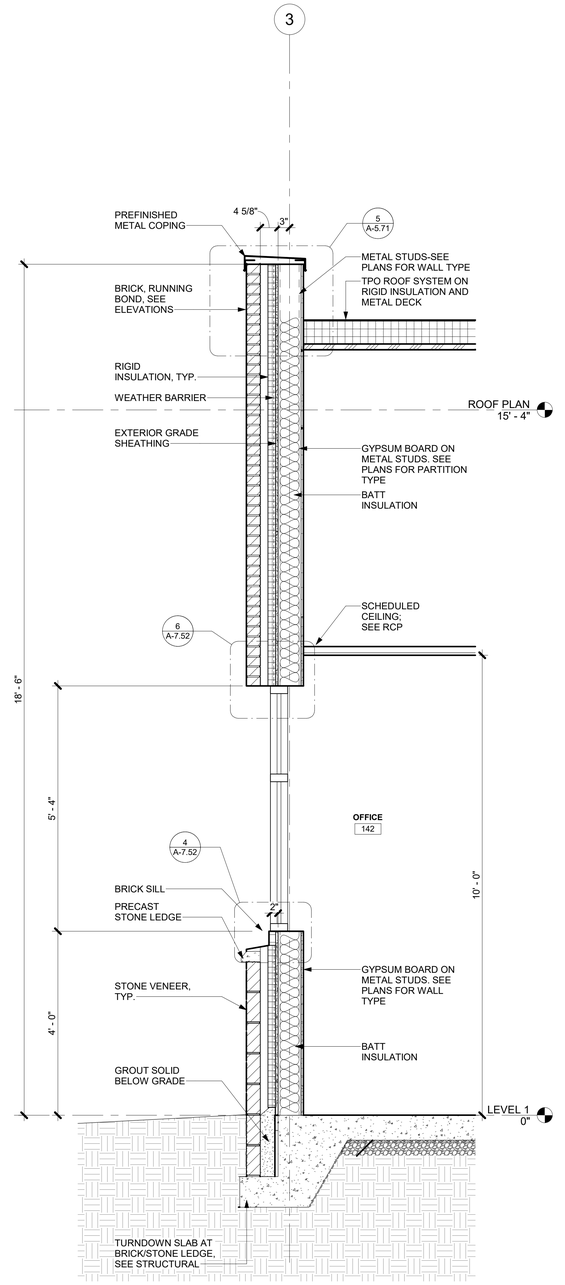


2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
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WALL SECTIONS

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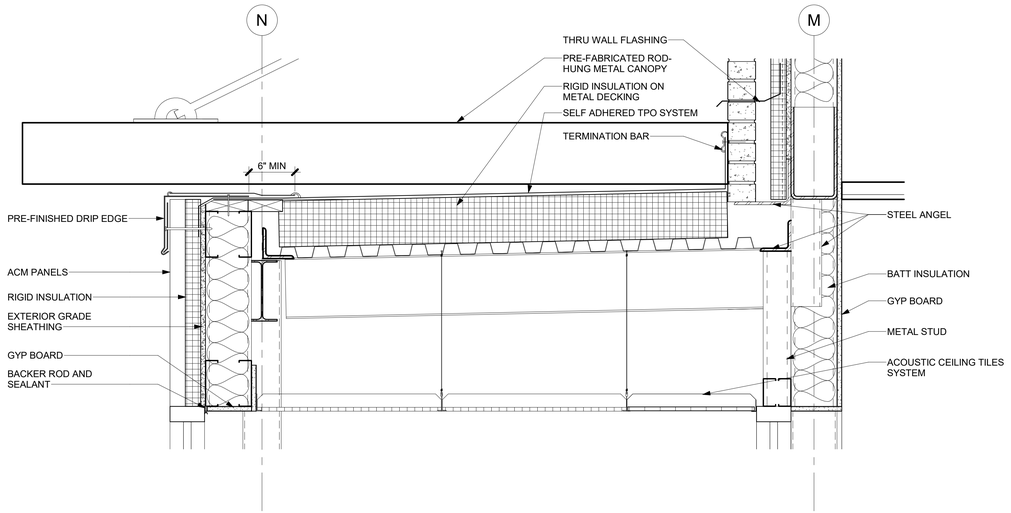
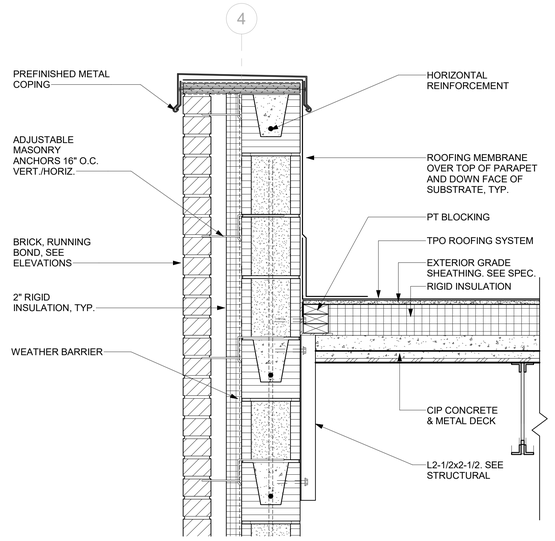
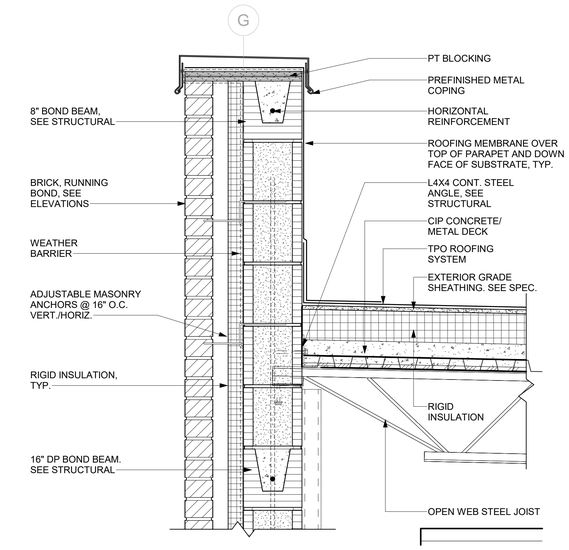


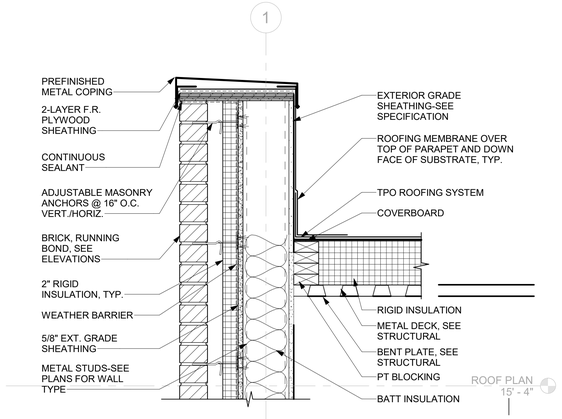
6 ENTRY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



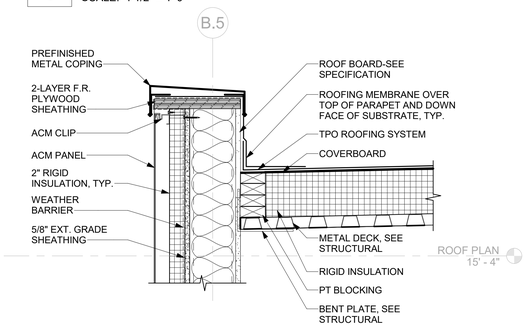
3 PARAPET DETAIL - BRICK/CMU
SCALE: 1 1/2" = 1'-0"



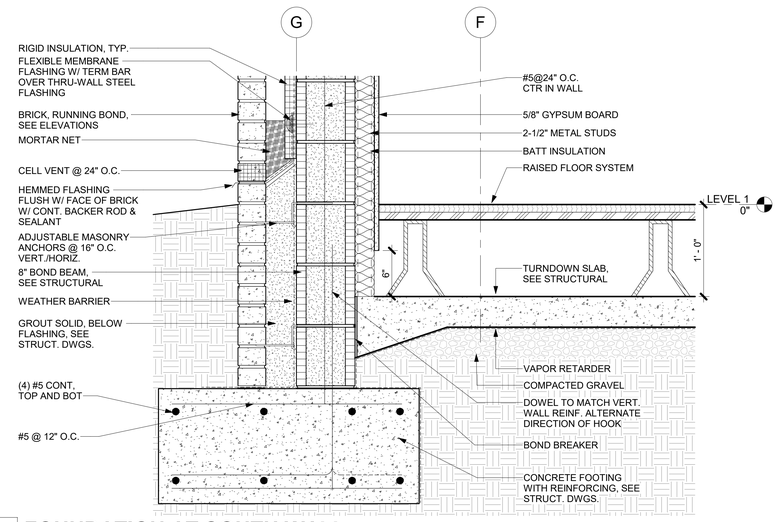
2 PARAPET DETAIL AT SOUTH WALL
SCALE: 1 1/2" = 1'-0"



5 BRICK/METAL STUD @ ROOF
SCALE: 1 1/2" = 1'-0"



4 ACM PANEL/METAL STUD @ ROOF
SCALE: 1 1/2" = 1'-0"



1 FOUNDATION AT SOUTH WALL
SCALE: 1 1/2" = 1'-0"

BRAVO BLDG

SET 03-23-2026

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JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
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SECTION DETAILS

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DOOR SCHEDULE

	DOOR						FRAME			DETAILS			FIRE	
NO.	ELEVATION	WIDTH	HEIGHT	THICK.	MATL.	FINISH	ELEVATION	MATL.	FINISH	HEAD	JAMB	SILL	RATING	NOTES
114	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
115	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
116A	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
116B	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
117	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
118A	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
118B	CO	4' - 0"	7' - 0"	1 3/4"	--	--	F1	HM	PTD	11/A-7.51	10/A-7.51	--		CASED OPENING
119	CO	3' - 0"	7' - 0"	1 3/4"	--	--	F1	HM	PTD	11/A-7.51	10/A-7.51	--		CASED OPENING
121	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		CARD READER
124	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
125	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
126A	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	3/A-7.51	2/A-7.51;1/A-7.51	7/A-7.51	60 MIN	LEVEL 4 BALLISTIC; CARD READER
126B	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
127	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	6/A-7.51	5/A-7.51;4/A-7.51	7/A-7.51		EXIT ONLY
127A	FG	3' - 0"	7' - 3"	1 3/4"	ALUM/GLS	ANOD	F1	ALUM	ANOD	--	--	--		CARD READER
127B	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	--	--	--	60 MIN	LEVEL 4 BALLISTIC; CARD READER
127C	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		CARD READER
129	CO	4' - 0"	7' - 0"	1 3/4"	--	--	F1	HM	PTD	11/A-7.51	10/A-7.51	--		CASED OPENING
130	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
131	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
132	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
133	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
134A	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	6/A-7.51	5/A-7.51;4/A-7.51	7/A-7.51		CARD READER
134B	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
135	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	6/A-7.51	5/A-7.51;4/A-7.51	7/A-7.51		CARD READER
136	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	6/A-7.51	5/A-7.51;4/A-7.51	7/A-7.51		CARD READER
137	F	3' - 0"	7' - 0"	1 3/4"	HM	PTD	F2	HM	PTD	6/A-7.51	5/A-7.51;4/A-7.51	7/A-7.51		CARD READER
138	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--	45 MIN	
139	CO	4' - 0"	7' - 0"	1 3/4"	--	--	F1	HM	PTD	11/A-7.51	10/A-7.51	--		CASED OPENING
140	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
142	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
143	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
144	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
145	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
146A	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
146B	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
147A	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
147B	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
148	F	2' - 6"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
149	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
150	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
151	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
152	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		
153	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--	45 MIN	
154	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--		CARD READER
155A	FG	3' - 0"	7' - 3"	1 3/4"	ALUM/GLS	ANOD	F1	ALUM	ANOD	--	--	--		
155B	FG	3' - 0"	7' - 3"	1 3/4"	ALUM/GLS	ANOD	F1	ALUM	ANOD	--	--	--		
156	CO	3' - 0"	7' - 0"	1 3/4"	--	--	F1	HM	PTD	11/A-7.51	10/A-7.51	--		CASED OPENING
158	F	3' - 0"	7' - 0"	1 3/4"	SCWD	STD	F1	HM	PTD	9/A-7.51	8/A-7.51	--	45 MIN	CARD READER

GENERAL NOTES

* REFER TO ADA REGULATORY DIAGRAMS FOR MORE INFORMATION

1. SEE GENERAL SPECIFICATIONS FOR DOOR AND FRAME FINISHES.
2. 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.
3. TIE MAGNETIC LOCK INTO FIRE ALARM.
4. REFER TO THE PARTITION TYPE OR APPLICABLE WALL SECTION AND THEN TO TYPICAL DOOR DETAILS FOR APPROPRIATE DETAIL.
5. ALL EXTERIOR HOLLOW METAL DOORS TO BE INSULATED.
6. ALL EXTERIOR DOORS TO BE WEATHER STRIPPED AND HAVE CLOSERS.
7. ALL FIRE RATED DOORS TO HAVE CLOSERS.
8. PROVIDE BRASS STOP BAR TRANSITION STRIPS AT THE FOLLOWING FLOORING TRANSITIONS: WOOD-PORCELAIN, WOOD-CARPET, CARPET-PORCELAIN.
9. ALL DOORS NOTED AS "LEVEL 4 BALLISTIC" SHALL MEET THE FOLLOWING REGULATIONS: (2019 NFPA 1221) (2019 NFPA 80) (UL 10B) (UL 752 - LEVEL 4)

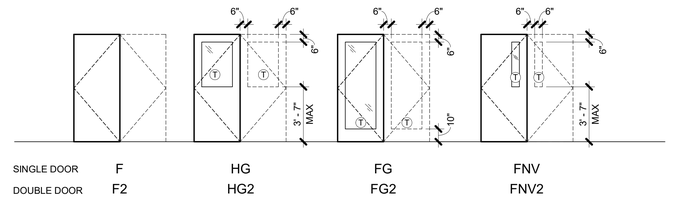
ABBREVIATIONS LEGEND

DOOR MATERIAL TYPE
- ALUM - ALUMINUM
- HM - HOLLOW METAL
- PLAM - PLASTIC LAM CLAD
- SCWD - SOLID CORE WOOD

FINISH TYPE
- STD - STAIN
- PTD - PAINT
- PF - PREFINISHED

FRAME MATERIAL TYPE
- ALUM - ALUMINUM
- HM - HOLLOW METAL
- STL - STEEL
- WD - WOOD

GLAZING TYPE
- T - CLEAR TEMPERED GLASS
- TT - TINTED & TEMPERED GLASS
- IT - INSULATED TEMPERED GLASS



DOOR ELEVATIONS

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

FRAME ELEVATIONS

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

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JERICHO design group
208 Pirkle Ferry Road, Suite C
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SUNBELT BUILDERS

TOTAL ENGINEERS

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Sheet Title
DOOR SCHEDULE AND ELEVATIONS

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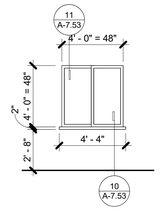

14 **SLIDING WINDOW**
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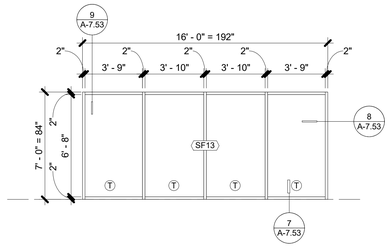

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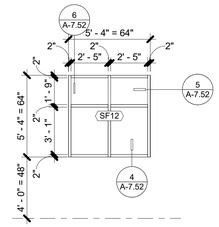

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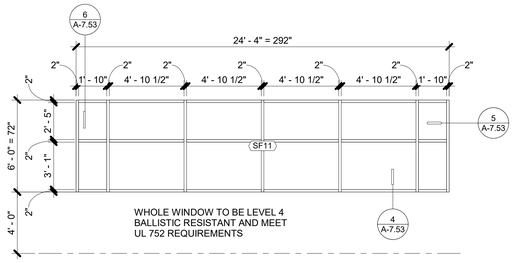

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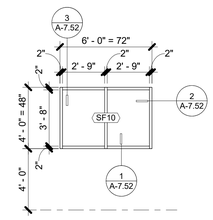

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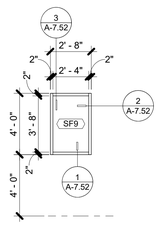

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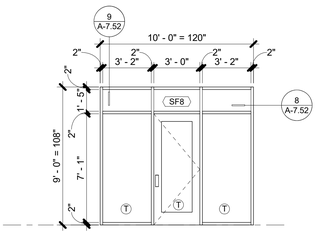

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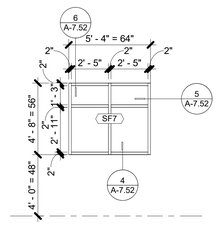

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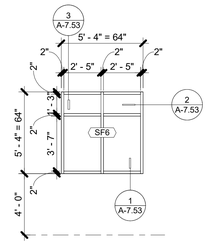

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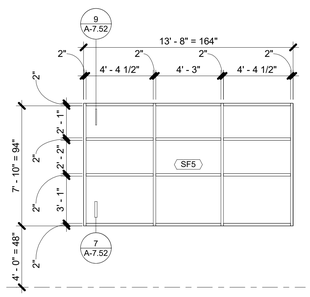

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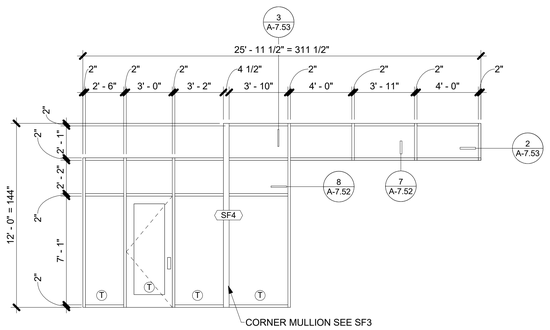

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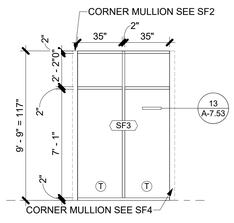

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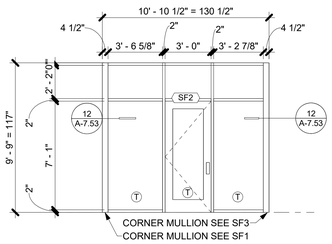
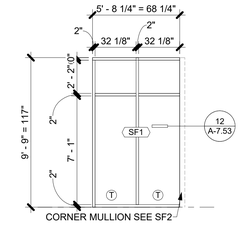
SCALE: 1/4" = 1'-0"



2 **SF2**
SCALE: 1/4" = 1'-0"



1 **SF1**
SCALE: 1/4" = 1'-0"

JERICHO design group
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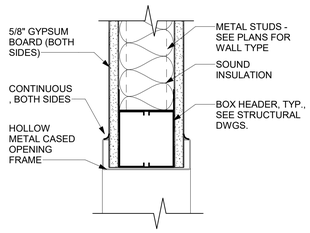
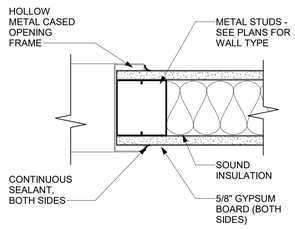
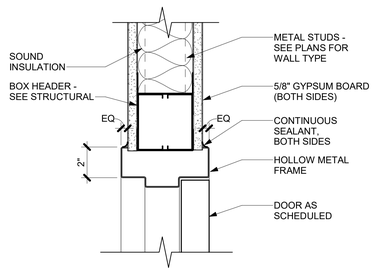


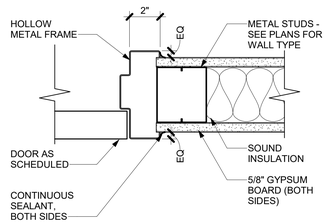
11 INT HM CASED OPENING-HEAD
SCALE: 3" = 1'-0"



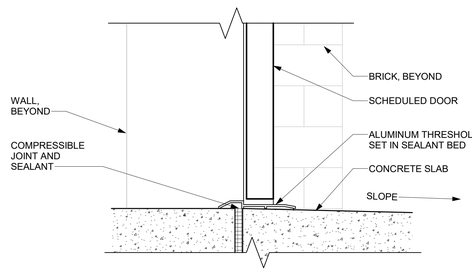
10 INT HM CASED OPENING-JAMB
SCALE: 3" = 1'-0"



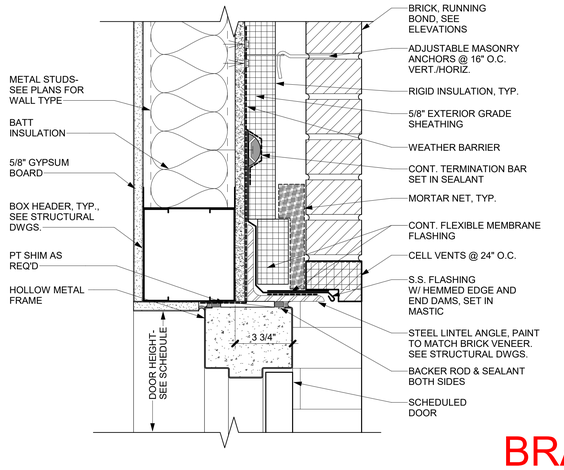
9 INT HM DOOR-HEAD
SCALE: 3" = 1'-0"



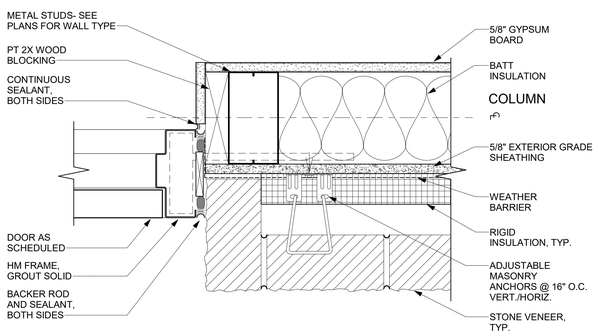
8 INT HM DOOR-JAMB
SCALE: 3" = 1'-0"



7 HM DOOR AT BRICK-SILL
SCALE: 3" = 1'-0"



5 HM DOOR AT BRICK-JAMB
SCALE: 3" = 1'-0"



4 EXT HM DOOR-STONE W/METAL STUDS-JAMB
SCALE: 3" = 1'-0"

6 HM DOOR AT BRICK-HEAD
SCALE: 3" = 1'-0"

BRAVO BLDG

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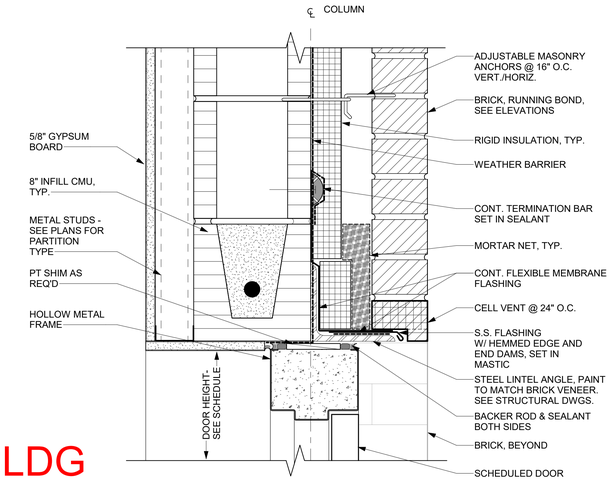
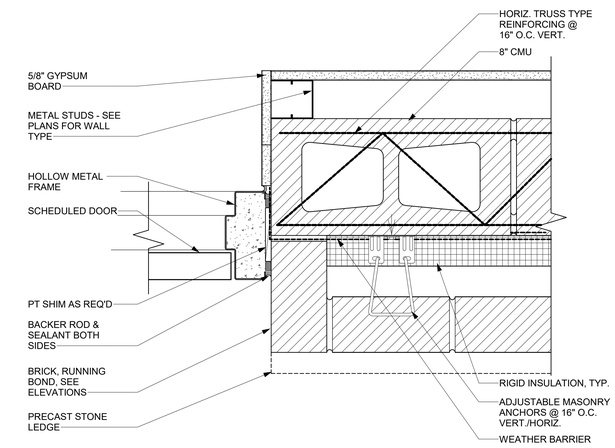
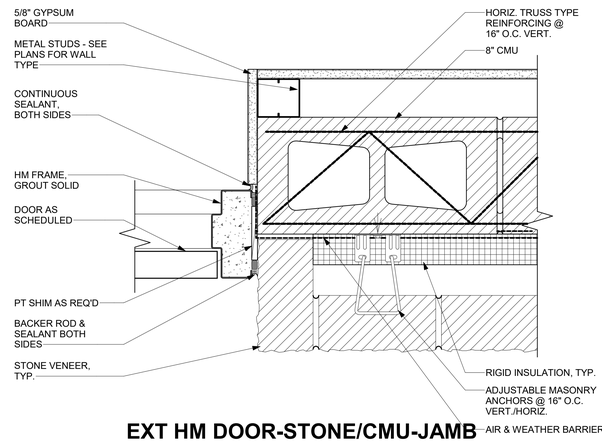


3 EXT HM DOOR-BRICK/CMU-HEAD
SCALE: 3" = 1'-0"



2 HM DOOR AT CMU/BRICK-JAMB
SCALE: 3" = 1'-0"



1 EXT HM DOOR-STONE/CMU-JAMB
SCALE: 3" = 1'-0"

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SUNBELT BUILDERS

TOTAL ENGINEERS

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931 MONROE DRIVE
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SHEARSTRUCTURAL.COM

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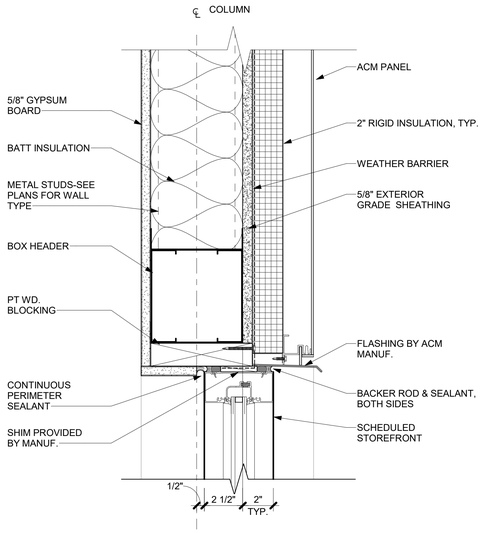

9 EXT SF-ACM-HEAD
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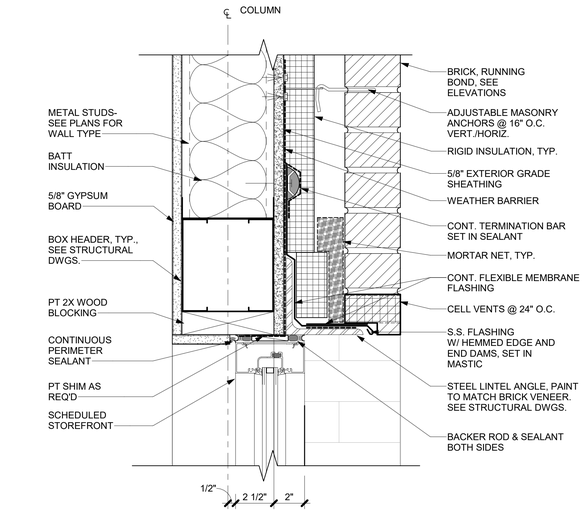

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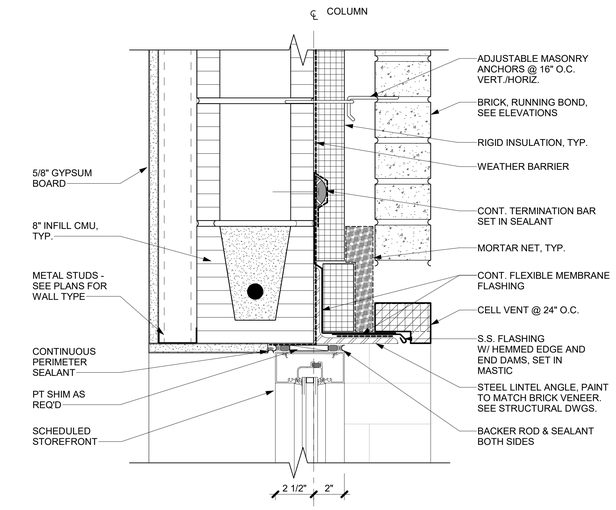

3 EXT ST-BRICK/CMU-HEAD
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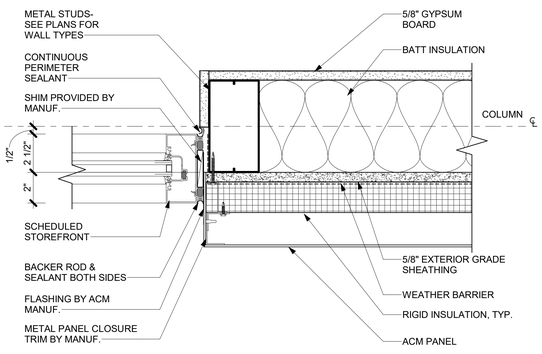

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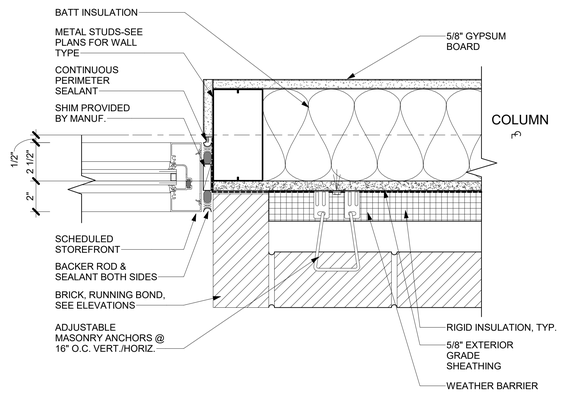

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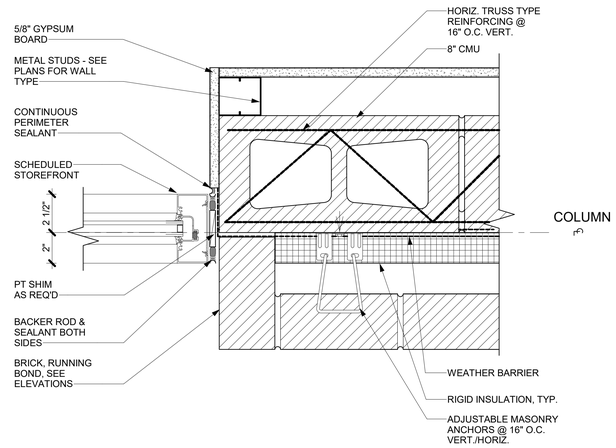

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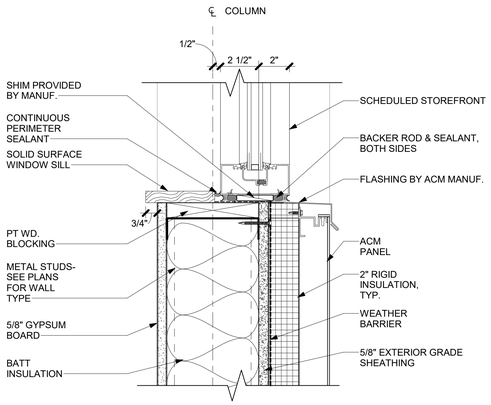

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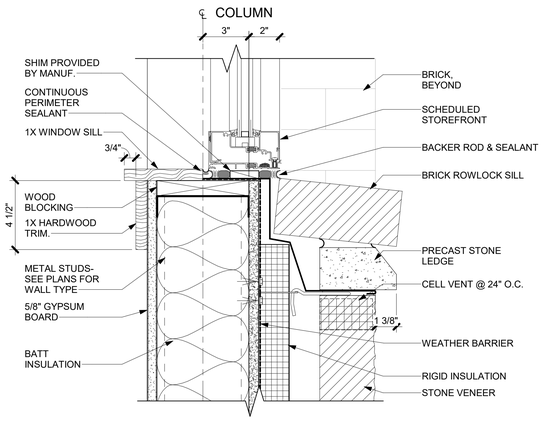

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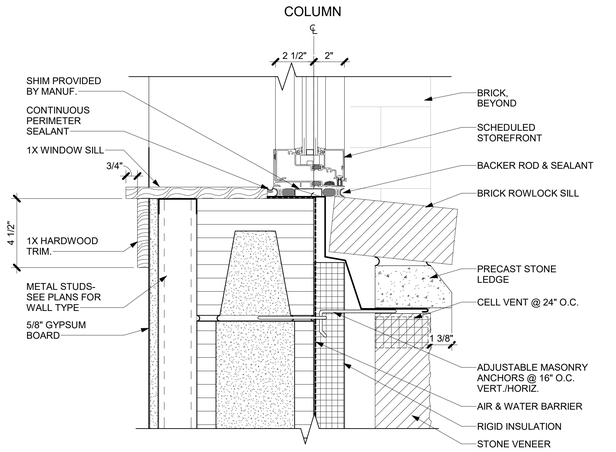

1 EXT SF-BRICK/CMU-SILL
SCALE: 3" = 1'-0"

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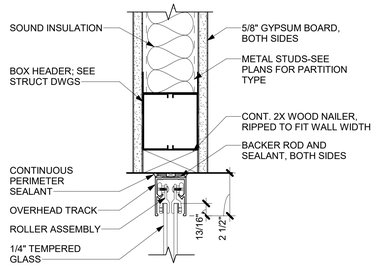
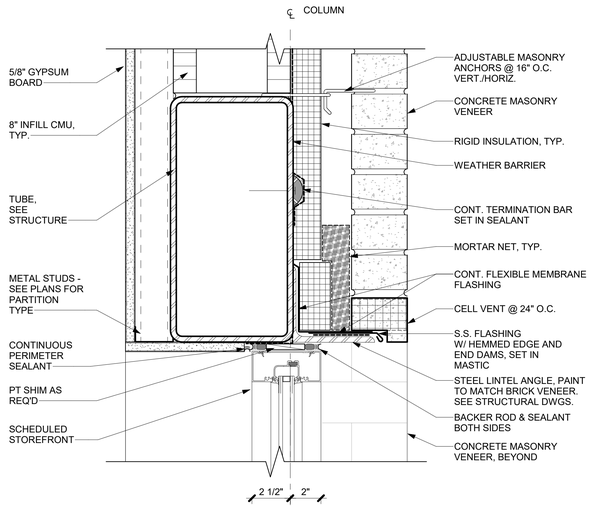
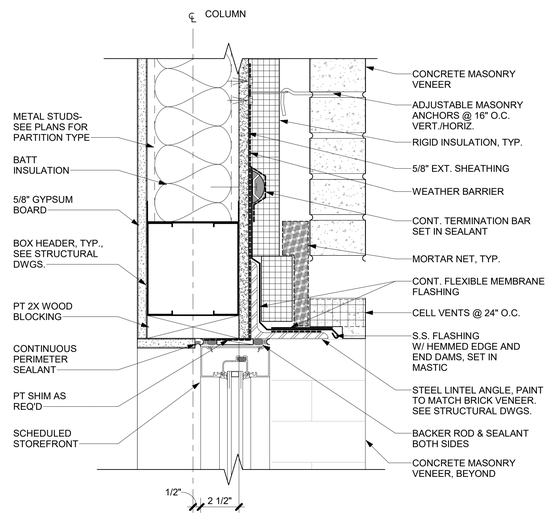


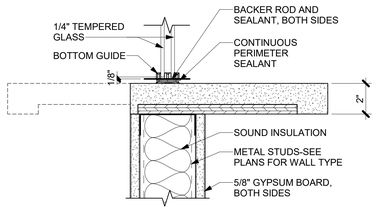
11 INT TRANSACTION WINDOW-HEAD
SCALE: 3" = 1'-0"



6 EXT CONCRETE MASONRY VENEER/CMU-HEAD
SCALE: 3" = 1'-0"



3 EXT CONCRETE MASONRY VENEERS-HEAD
SCALE: 3" = 1'-0"



10 INT TRANSACTION WINDOW-SILL
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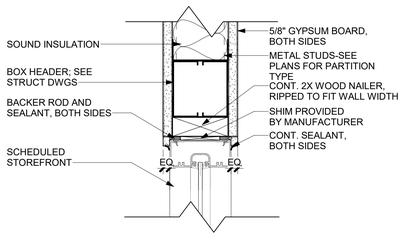

9 INT SF HEAD
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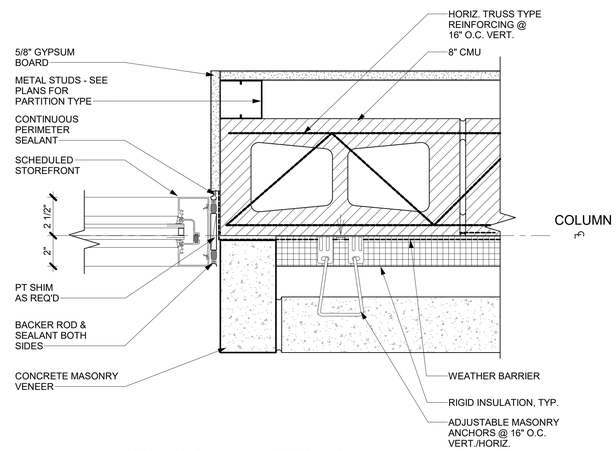
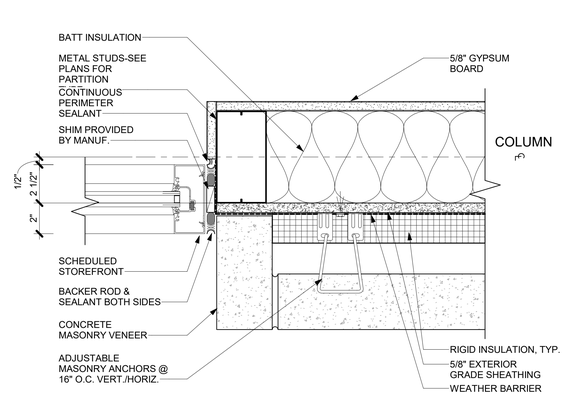
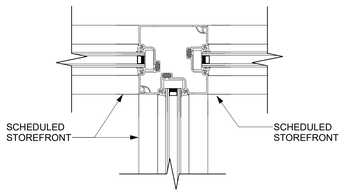


5 EXT CONCRETE MASONRY VENEERS/CMU-JAMB
SCALE: 3" = 1'-0"

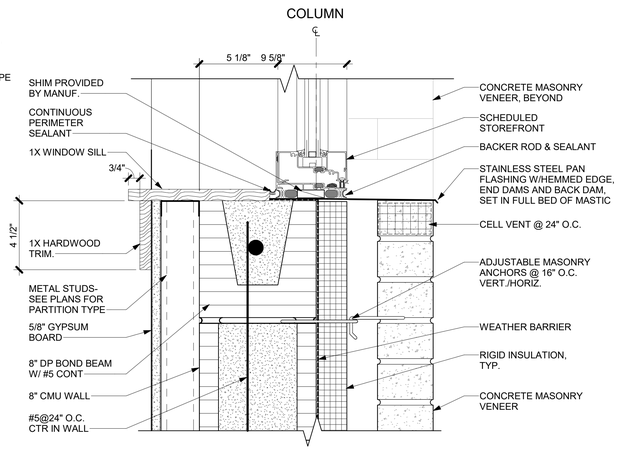


2 EXT CONCRETE MASONRY VENEERS-JAMB
SCALE: 3" = 1'-0"



13 VESTIBULE SF CORNER
SCALE: 3" = 1'-0"

8 INT SF JAMB
SCALE: 3" = 1'-0"



4 EXT CONCRETE MASONRY VENEER/CMU-SILL
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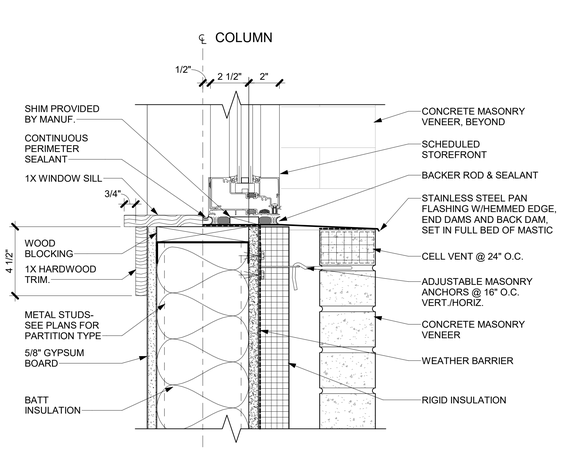

1 EXT CONCRETE MASONRY VENEER-SILL
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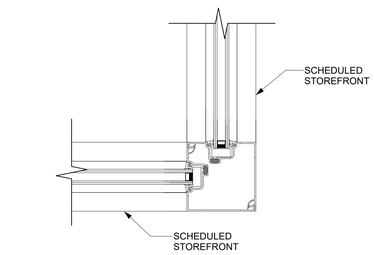
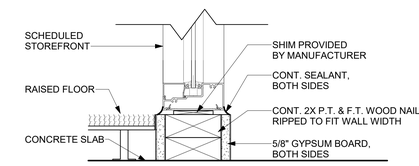


12 VESTIBULE SF CORNER
SCALE: 3" = 1'-0"



7 INT SF SILL
SCALE: 3" = 1'-0"

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DIVISION 08 - OPENINGS

SECTION 087100
DOOR HARDWARE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. This Section includes commercial door hardware for the following:
1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:
1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Bullet Resistant Doors and Frame”.
4. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.03 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

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, thickness, hand, function, and finish of door hardware.
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. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
   a. Type, style, function, size, label, hand, and finish of each door hardware item.
   b. 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.
   h. Warranty information for each product.
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 Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
   a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
   b. Complete (risers, point-to-point) access control system block wiring diagrams.
   c. Wiring instructions for each electronic component scheduled herein.
2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. 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 and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.04 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.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.05 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-service performance.

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 indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. 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.
2. Plans for existing and future key system expansion.
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, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, 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.
3. 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.

1.06 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 instructions with each item or package.

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".

1.07 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 Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. 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.

1.08 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:
1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. 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

2.01 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.02 MATERIALS

A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.03 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.
1. Quantity: Provide the following hinge quantity:
   a. Two Hinges: For doors with heights up to 60 inches (1524 mm).
   b. Three Hinges: For doors with heights 61 to 90 inches (2286 mm).
   c. Four Hinges: For doors with heights 91 to 120 inches (3048 mm).
   d. For doors with heights more than 120 inches (3048 mm), provide 4 hinges, plus 1 hinge for every 30 inches (762 mm) of door height greater than 120 inches.
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.
   b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.
3. 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 standard weight.
   b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
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.
5. Manufacturers:
   a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.04 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 (101.6 mm). Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Manufacturers:.
   a. Pemko (PE).

B. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Manufacturers:
   a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).
   b. Pemko (PE).

2.05 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets with a 1-year warranty. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
   a. McKinney (MK) - QC (# wires) Option.

B. Electrified Quick Connect Continuous Geared Transfer Hinges: Provide electrified transfer continuous geared hinges with a removable service panel cutout accessible without de-mounting door from the frame. Furnish with Molex™ standardized plug connectors with sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
   a. Pemko (PE) - SER-QC (# wires) Option.

C. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
   a. Pemko (PE) - EL-CEPT Series.
   b. Securitron (SU) - EL-CEPT Series.

D. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
1. Provide one each of the following tools as part of the base bid contract:
   a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
   b. McKinney (MK) - Connector Hand Tool: QC-R003.
2. Manufacturers:
   a. McKinney (MK) - QC-C Series.

2.06 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
1. Push/Pull Plates: Minimum .050 inch (1.27 mm) thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls, where applicable, shall be provided with a 10” clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:
   a. Rockwood (RO).

2.07 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
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 finishes.
6. Keyway: Manufacturer’s Standard.

C. Large Format Interchangeable Cores: Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.

D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1 Certified Products Directory (CPD) listed cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by 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 and supplied to support existing systems.
2. Manufacturers:
   a. Corbin Russwin (RU) - Access 3 AP.
   b. Sargent (SA) - Degree DG1.

E. Keying System: Each type of lock and cylinders to be factory keyed.
1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

F. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

G. Construction Keying: Provide temporary keyed construction cores.

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.

2.08 KEY CONTROL

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).

2.09 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Electromechanical locksets shall have the following functions and features:
   a. Universal Molex plug-in connectors that have standardized color-coded wiring and are available in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
   b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
   c. Options to be available for request-to-exit or enter signaling, latchbolt and deadbolt monitoring.
   d. Two-year limited warranty on electrified functions.
2. Manufacturers:
   a. Corbin Russwin Hardware (RU) - ML2000 Series.
   b. Sargent Manufacturing (SA) - 8200 Series.

2.10 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.
1. Provide locksets with functions and features as follows:
   a. Meets ANSI/BHMA A156.41 for single motion egress.
   b. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
   c. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
   d. Exceeds ANSI/BHMA A156.2 requirements by 2.6 times for 3,100 inch (78740 mm)-lb. abusive locked lever torque with no entry while maintaining egress.
   e. Exceeds ANSI/BHMA A156.2 requirements by 8 times for 1,600 lbs. offset lever pull with no entry for protection against attacks.
   f. Exceeds ANSI/BHMA A156.3 requirements by 2 times for latch retraction with 100 lb. preload while maintaining operation in warped doors.
   g. Exceeds ANSI/BHMA A156.3 requirements by 20 times for no access with minimum 100 vertical impacts for protection against vandalism attempts.
   h. Independent return springs allow lock to exceed ANSI/BHMA A156.2 Grade 1 cycle requirements without lever sag.
   i. Status indicators inside, outside, or on both sides of doors as specified with high visibility red/green or red/white icons to display locked or unlocked state in the rose.
   j. Ten-year limited warranty for mechanical functions.
2. Electromechanical locksets shall have the following functions and features:
   a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
   b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
   c. Options to be available for request-to-exit or enter signaling, latchbolt and deadbolt monitoring.
   d. Two-year limited warranty on electrified functions.
3. Manufacturers:
   a. Corbin Russwin Hardware (RU) - CLX3300 Series.
   b. Sargent Manufacturing (SA) - 10X Line.

2.11 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.
2. 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:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.12 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. 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. Plastic end caps will not be acceptable.
7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
   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 maximum 2” wide stiles.
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.
1. Electromechanical exit devices shall have the following functions and features:
   a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
   b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
   c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
   d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
   e. Five-year limited warranty for electromechanical features.
2. Manufacturers:
   a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
   b. Sargent Manufacturing (SA) - 80 Series.

2.13 SURFACE DOOR CLOSERS

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.
2. 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.
5. 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.

B. Door Closers, Surface Mounted (Large Body Cast Iron): 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 body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:
   a. Corbin Russwin Hardware (RU) - DC8000 Series.
   b. Norton Rixson (NO) - 9500 Series.
   c. Sargent Manufacturing (SA) - 281 Series.

C. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade 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, closing sweep, and latch speed control valves. Provide non-handed units standard.
1. Manufacturers:
   a. Corbin Russwin Hardware (RU) - DC6000 Series.
   b. Norton Rixson (NO) - 8500 Series.
   c. Sargent Manufacturing (SA) - 1431 Series.

2.14 OVERHEAD CONCEALED DOOR CLOSERS

A. Door Closers, Overhead Concealed (Narrow Profile): ANSI/BHMA 156.4 Grade 1 Certified Products Directory (CPD) listed overhead concealed door closers designed for narrow profile frames and doors. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide overhead concealed doors closers with functions and features as follows:
   a. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies and A117.1 Accessibility Code.
   b. Single acting, offset hung with a cast iron body.
   c. Fully concealed body in the frame head and track assembly in the door.
   d. Separate and independent valves for closing speed and backcheck adjustments.
   e. Five-year limited warranty.
2. Manufacturers:
   a. Norton Rixson (RF) - 91DCP Series.

2.15 ARCHITECTURAL TRIM

A. Door Protective Trim
1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. 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).

2.16 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.
1. Manufacturers:
   a. Rockwood (RO).

2.17 ARCHITECTURAL SEALS

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.

C. 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.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. 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:
1. Pemko (PE).

2.18 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
1. Manufacturers:
   a. Securitron (SU) - DPS Series.

B. Intelligent Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
1. Power supplies shall meet all functions and features as specified herein.
   a. UL listed dual voltage 12 or 24 VDC field selectable continuous output.
   b. Dedicated fast charger to prolong battery life with low battery cutoff to protect batteries from deep discharge.
   c. Enhanced surge immunity for input/output protection
   d. Separate, dedicated battery charging circuit to keep locks cooler.
   e. Dual-color LED visual notification to prevent applying incorrect voltages to the power supply.
   f. Instant auto-switch to battery on AC loss.
   g. Expandable up to 16 outputs in the standard enclosure
   h. Integrated fire alarm interface to allow main output shutdown or disconnect on a per output basis when using an R8 output module.
   i. Network ready and remotely manage locks and connected devices when using an M8 managed output module on network models.
   j. Lifetime replacement, no-fault, no questions asked warranty.
2. Manufacturers:
   a. Securitron (SU) - AQL Series.

2.19 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.

2.20 FINISHES

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.

PART 3 EXECUTION

3.01 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.

3.02 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.03 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 Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. 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 until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

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

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.

3.04 FIELD QUALITY CONTROL

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
(678) 664-8051
SHEARSTRUCTURAL.COM

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/30/2025	PERMIT SET

Drawn By KRM
Checked By Checker
Date 02/07/2025
Job No. 24029

Sheet Title
DOOR HARDWARE SCHEDULE

Sheet No.
A-7.61

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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.

3.05 ADJUSTING

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 and ventilating equipment and to comply with referenced accessibility requirements.

3.06 CLEANING AND PROTECTION

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.

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.

3.07 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.08 DOOR HARDWARE SETS

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.
1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

MK	MCKINNEY
PE	PEMKO
MR	MARKAR
SU	SECURITRON
SA	SARGENT
RO	ROCKWOOD
RF	RIXSON

HARDWARE SETS

SET: 1.0
DOORS: 127A
DESCRIPTION: EXTERIOR - ALUM - CORRIDOR (CARD READER)

1	CONTINUOUS HINGE	CFM__SLF-HD1 SER__ X LENGTH REQUIRED		PE	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 43 55 56 AD8504 862	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	*CONCEALED CLOSER	PH 91N	626	RF	
1	**DOOR STOP	463-RKW	US32D	RO	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
*CONTACT FACTORY FOR SPECIAL TEMPLATING AND PRICING IF PRODUCTS OTHER THAN 3/4" OFFSET PIVOTS OR 4-1/2" X 4-1/2" BUTT HINGES ARE USED TO HANG DOOR.
**VERIFY LOCATION WITH THE DESIGN PROFESSIONAL BEFORE INSTALLING, DO NOT INSTALL IN ANY LOCATION WHERE DOOR STOP COULD BE A TRIP HAZARD.

• BALANCE OF HARDWARE: THRESHOLD, DOOR SWEEP AND PERIMETER GASKET FURNISHED BY THE ALUMINUM STOREFRONT DOOR AND FRAME MANUFACTURER.
• COORDINATE ALL HARDWARE WITH THE ALUMINUM STOREFRONT DOOR AND FRAME MANUFACTURER/SUPPLIER.
• VERIFY FINISH OF HARDWARE.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE:
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT. EXIT DEVICE LATCH CAN BE ELECTRICALLY HELD RETRACTED FOR OPEN ACCESS.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 2.0
DOORS: 155A
DESCRIPTION: EXTERIOR - ALUM - VESTIBULE

1	CONTINUOUS HINGE	CFM__SLF-HD1 X LENGTH REQUIRED		PE	
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 16 43 AD8504 862	US32D	SA	
2	CORE	DG1 6300	US15	SA	
1	*CONCEALED CLOSER	PH 91N	626	RF	
1	**DOOR STOP	463-RKW	US32D	RO	
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡

NOTES:
*CONTACT FACTORY FOR SPECIAL TEMPLATING AND PRICING IF PRODUCTS OTHER THAN 3/4" OFFSET PIVOTS OR 4-1/2" X 4-1/2" BUTT HINGES ARE USED TO HANG DOOR.
**VERIFY LOCATION WITH THE DESIGN PROFESSIONAL BEFORE INSTALLING, DO NOT INSTALL IN ANY LOCATION WHERE DOOR STOP COULD BE A TRIP HAZARD.

• BALANCE OF HARDWARE: THRESHOLD, DOOR SWEEP AND PERIMETER GASKET FURNISHED BY THE ALUMINUM STOREFRONT DOOR AND FRAME MANUFACTURER.
• COORDINATE ALL HARDWARE WITH THE ALUMINUM STOREFRONT DOOR AND FRAME MANUFACTURER/SUPPLIER.
• EXIT DEVICE CAN BE DOGGED DOWN FOR PUSH / PULL OPERATION.
• DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
• VERIFY FINISH OF HARDWARE.

SET: 3.0
DOORS: 116A, 118A
DESCRIPTION: EXTERIOR - CORRIDOR, DOGS (LEVEL 4 BALLISTIC; CARD READER)

1	CONTINUOUS HINGE	FM3500 X LENGTH REQUIRED X CTP WEP	630	MR	
1	ELECTRIC POWER TRANSFER	EL-CEPT	630	SU	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 12 43 55 56 8804 862	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	2891AS TKSP (HEAD)		PE	
2	GASKETING	290AS TKSP (JAMB)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• KNURLING: WHERE REQUIRED BY LOCAL CODE PROVIDE KNURLING OR ABRASIVE COATING TO ALL LEVERS ON DOORS LEADING TO HAZARDOUS AREAS SUCH AS ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER AND FURNACE ROOMS, JANITOR CLOSETS, AND AS OTHERWISE REQUIRED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 4.0
DOORS: 114
DESCRIPTION: EXTERIOR - ELECTRICAL (LEVEL 4 BALLISTIC; CARD READER)

1	CONTINUOUS HINGE	FM3500 X LENGTH REQUIRED X CTP WEP	630	MR	
1	ELECTRIC POWER TRANSFER	EL-CEPT	630	SU	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 12 43 55 56 8804 ETL	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• COORDINATE ALL HARDWARE WITH THE BALLISTIC DOOR AND FRAME MANUFACTURER AND ADD/MODIFY/DELETE DOOR HARDWARE AS/IF NEEDED.
• KNURLING: WHERE REQUIRED BY LOCAL CODE PROVIDE KNURLING OR ABRASIVE COATING TO ALL LEVERS ON DOORS LEADING TO HAZARDOUS AREAS SUCH AS ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER AND FURNACE ROOMS, JANITOR CLOSETS, AND AS OTHERWISE REQUIRED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 5.0
DOORS: 135
DESCRIPTION: EXTERIOR - ELECTRICAL (CARD READER)

1	CONTINUOUS HINGE	CFM__SLF-HD1 SER__ X LENGTH REQUIRED		PE	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 12 43 55 56 8804 ETL	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• KNURLING: WHERE REQUIRED BY LOCAL CODE PROVIDE KNURLING OR ABRASIVE COATING TO ALL LEVERS ON DOORS LEADING TO HAZARDOUS AREAS SUCH AS ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER AND FURNACE ROOMS, JANITOR CLOSETS, AND AS OTHERWISE REQUIRED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 6.0
DOORS: 127
DESCRIPTION: EXTERIOR - TRAINING ROOM

1	CONTINUOUS HINGE	CFM__SLF-HD1 X LENGTH REQUIRED		PE	
1	RIM EXIT DEVICE, EXIT ONLY	12 43 8810 EO	US32D	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	2891AS TKSP (HEAD)		PE	
2	GASKETING	290AS TKSP (JAMB)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡

NOTES:
• DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.

SET: 7.0
DOORS: 126A
DESCRIPTION: EXTERIOR - BREAKROOM (LEVEL 4 BALLISTIC; CARD READER)

1	CONTINUOUS HINGE	FM3500 X LENGTH REQUIRED X CTP WEP	630	MR	
1	ELECTRIC POWER TRANSFER	EL-CEPT	630	SU	⚡
1	ELECTRIFIED MORTISE LOCK	DG164 NAC-82281 LNL	US26D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	2891AS TKSP (HEAD)		PE	
2	GASKETING	290AS TKSP (JAMB)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	PROVIDED WITH THE ELECTRIFIED MORTISE LOCK		SA	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• COORDINATE ALL HARDWARE WITH THE BALLISTIC DOOR AND FRAME MANUFACTURER AND ADD/MODIFY/DELETE DOOR HARDWARE AS/IF NEEDED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER UNLOCKING LEVER TRIM FOR A PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. ELECTRIFIED MORTISE LOCK REX SWITCH ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. LEVER REMAINS LOCKED (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 8.0
DOORS: 115, 117
DESCRIPTION: EXTERIOR - MECH, WATER (LEVEL 4 BALLISTIC; CARD READER)

1	CONTINUOUS HINGE	FM3500 X LENGTH REQUIRED X CTP WEP	630	MR	
1	ELECTRIC POWER TRANSFER	EL-CEPT	630	SU	⚡
1	ELECTRIFIED MORTISE LOCK	DG164 NAC-82281 LNL	US26D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	PROVIDED WITH THE ELECTRIFIED MORTISE LOCK		SA	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• KNURLING: WHERE REQUIRED BY LOCAL CODE PROVIDE KNURLING OR ABRASIVE COATING TO ALL LEVERS ON DOORS LEADING TO HAZARDOUS AREAS SUCH AS ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER AND FURNACE ROOMS, JANITOR CLOSETS, AND AS OTHERWISE REQUIRED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER UNLOCKING LEVER TRIM FOR A PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. ELECTRIFIED MORTISE LOCK REX SWITCH ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. LEVER REMAINS LOCKED (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 9.0
DOORS: 136, 137
DESCRIPTION: EXTERIOR - MECH, WATER (CARD READER)

1	CONTINUOUS HINGE	CFM__SLF-HD1 SER__ X LENGTH REQUIRED		PE	⚡
1	ELECTRIFIED MORTISE LOCK	DG164 NAC-82281 LNL	US26D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	PROVIDED WITH THE ELECTRIFIED MORTISE LOCK		SA	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• KNURLING: WHERE REQUIRED BY LOCAL CODE PROVIDE KNURLING OR ABRASIVE COATING TO ALL LEVERS ON DOORS LEADING TO HAZARDOUS AREAS SUCH AS ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER AND FURNACE ROOMS, JANITOR CLOSETS, AND AS OTHERWISE REQUIRED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER UNLOCKING LEVER TRIM FOR A PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. ELECTRIFIED MORTISE LOCK REX SWITCH ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. LEVER REMAINS LOCKED (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 10.0
DOORS: 134A
DESCRIPTION: EXTERIOR - DIRECTOR (CARD READER)

1	CONTINUOUS HINGE	CFM__SLF-HD1 SER__ X LENGTH REQUIRED		PE	⚡
1	ELECTRIFIED MORTISE LOCK	DG164 NAC-82281 LNL	US26D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 CPS	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	RAIN GUARD	346C TKSP X WIDTH OF FRAME HEAD		PE	
1	GASKETING	2891AS TKSP (HEAD)		PE	
2	GASKETING	290AS TKSP (JAMB)		PE	
1	SWEEP	315CN TKSP X DOOR WIDTH		PE	
1	THRESHOLD	2009APK X LENGTH REQUIRED X MSES25SS		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	PROVIDED WITH THE ELECTRIFIED MORTISE LOCK		SA	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER UNLOCKING LEVER TRIM FOR A PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. ELECTRIFIED MORTISE LOCK REX SWITCH ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. LEVER REMAINS LOCKED (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 11.0
DOORS: 155B
DESCRIPTION: ALUM - LOBBY

1	CONTINUOUS HINGE	CFM__SLF-HD1 X LENGTH REQUIRED		PE	
1	PUSH BAR & PULL	BF15847	US32D	RO	
1	*CONCEALED CLOSER	PH 91N	626	RF	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	

NOTES:
*CONTACT FACTORY FOR SPECIAL TEMPLATING AND PRICING IF PRODUCTS OTHER THAN 3/4" OFFSET PIVOTS OR 4-1/2" X 4-1/2" BUTT HINGES ARE USED TO HANG DOOR.

• COORDINATE ALL HARDWARE WITH THE ALUMINUM STOREFRONT DOOR AND FRAME MANUFACTURER/SUPPLIER.
• VERIFY FINISH OF HARDWARE.

SET: 12.0
DOORS: 127C, 154
DESCRIPTION: CORRIDOR (CARD READER)

2	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D	MK	
1	ELECTRIC HINGE, HVY WT	T4A3786-QC__	US26D	MK	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 43 55 56 8804 ETL	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

BRAVO BLDG SET 03-23-2026

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COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

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No.	DATE	DESCRIPTION
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Date 02/07/2025
Job No. 24029

Sheet Title
DOOR HARDWARE SCHEDULE

Sheet No.
A-7.62

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NOTES:
• WHERE POSSIBLE INSTALL CLOSERS ON DOOR FOR OPTIMUM AESTHETICS.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 13.0
DOORS: 158
DESCRIPTION: ANTE (CARD READER)

2	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D	MK	
1	ELECTRIC HINGE, HVY WT	T4A3786-QC__	US26D	MK	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 12 43 55 56 8804 ETL	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• WHERE POSSIBLE INSTALL CLOSERS ON DOOR FOR OPTIMUM AESTHETICS.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 14.0
DOORS: 127B
DESCRIPTION: BRIEFING (LEVEL 4 BALLISTIC; CARD READER)

1	CONTINUOUS HINGE	FM3500 X LENGTH REQUIRED X CTP WEP	630	MR	
1	ELECTRIC POWER TRANSFER	EL-CEPT	630	SU	⚡
1	RIM EXIT DEVICE, NIGHTLATCH	DG164 12 43 55 56 8804 862	US32D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	TB 281 P10	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• COORDINATE ALL HARDWARE WITH THE BALLISTIC DOOR AND FRAME MANUFACTURER AND ADD/MODIFY/DELETE DOOR HARDWARE AS/IF NEEDED.
• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER RETRACTING EXIT DEVICE LATCH FOR PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. REX SWITCH IN PUSH RAIL ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. EXIT DEVICE LATCH RELEASES (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 15.0
DOORS: 153
DESCRIPTION: TRAINING ROOM

3	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D	MK	
1	RIM EXIT DEVICE, CLASSROOM	DG164 12 43 8813 ETL	US32D	SA	
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSER ON DOOR FOR OPTIMUM AESTHETICS.

SET: 16.0
DOORS: 121
DESCRIPTION: SERVERS (CARD READER)

2	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	ELECTRIC HINGE	TA2714-QC__	US26D	MK	⚡
1	FAIL SECURE LOCK	DG164 RX 10XG71 LL	US26D	SA	⚡
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	ELECTROLYNX HARNESS DOOR	QC-C**** (LENGTH / TYPE AS REQUIRED)		MK	⚡
1	ELECTROLYNX HARNESS FRAME	QC-C1500P		MK	⚡
1	DOOR POSITION SWITCH	DPS-M / W-BK		SU	⚡
1	CARD READER	PROVIDED BY SECURITY SUPPLIER			⚡
1	POWER SUPPLY	AQL SERIES (TYPE & SIZE AS REQUIRED)		SU	⚡
1	WIRING/POINT-TO-POINT DIAGRAM				
1	ELEVATION DIAGRAM				
1	RISER DIAGRAM				

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSERS ON DOOR FOR OPTIMUM AESTHETICS.

• COORDINATE WITH ELECTRICAL, ALARM AND SECURITY CONTRACTORS.
• ACCESS CONTROL PANEL, SECURITY MANAGEMENT SOFTWARE AND CREDENTIALS BY SECURITY CONTRACTOR.

OPERATIONAL NARRATIVE (LOCAL AHJ SHOULD ALWAYS BE CONSULTED AND SIGN OFF ON THE OPERATION):
1. DOOR NORMALLY CLOSED AND SECURE.
2. AUTHORIZED ACCESS BY CARD READER UNLOCKING LEVER TRIM FOR A PREDETERMINED TIME LIMIT.
3. EGRESS FREE FOR IMMEDIATE EXIT.
4. FAIL SECURE LOCK REX SWITCH ALLOWS AUTHORIZED EXIT WITHOUT ALARM CONDITION.
5. DOOR POSITION SWITCH MONITORS OPEN/CLOSED STATUS.
6. LEVER REMAINS LOCKED (FAIL SECURE) IN EVENT OF POWER LOSS. KEYED CYLINDER OVERRIDE FOR EMERGENCY ACCESS.

SET: 17.0
DOORS: 140, 144, 148
DESCRIPTION: STORAGE

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	STOREROOM/CLOSET LOCK	DG164 10XG04 LL	US26D	SA	
1	CORE	DG1 6300	US15	SA	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	

SET: 18.0
DOORS: 138
DESCRIPTION: STORAGE

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	STOREROOM/CLOSET LOCK	DG164 10XG04 LL	US26D	SA	
1	CORE	DG1 6300	US15	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSER ON DOOR FOR OPTIMUM AESTHETICS.

SET: 19.0
DOORS: 130, 131, 132, 133, 134B, 142, 143, 145
DESCRIPTION: OFFICE

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	ENTRY/OFFICE LOCK	DG164 10XG05 LL	US26D	SA	
1	CORE	DG1 6300	US15	SA	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	

SET: 20.0
DOORS: 152
DESCRIPTION: LAUNDRY

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	CLASSROOM LOCK	DG164 10XG37 LL	US26D	SA	
1	CORE	DG1 6300	US15	SA	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	

SET: 21.0
DOORS: 151
DESCRIPTION: LACTATION

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	PRIVACY INDICATOR LOCKSET	V33 10XU65 VSLL	US26D	SA	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	

SET: 22.0
DOORS: 124, 125
DESCRIPTION: TOILET

3	HINGE, FULL MORTISE	TA2714	US26D	MK	
1	PRIVACY INDICATOR LOCKSET	V33 10XU65 VSLL	US26D	SA	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	MOP PLATE	K1050 4" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
1	GASKETING	S88BL (HEAD & JAMBS)		PE	
1	COAT HOOK	802	US26D	RO	

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSER ON DOOR FOR OPTIMUM AESTHETICS.

SET: 23.0
DOORS: 126B, 146A, 146B, 147A, 147B
DESCRIPTION: BREAKROOM, MENS, WOMENS

3	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D	MK	
1	PUSH PLATE	70C-RKW	US32D	RO	
1	PULL PLATE	BF 110X70C	US32D	RO	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	MOP PLATE	K1050 4" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSER ON DOOR FOR OPTIMUM AESTHETICS.

SET: 24.0
DOORS: 116B, 149, 150
DESCRIPTION: CORRIDOR, FITNESS

3	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D	MK	
1	PUSH PLATE	70C-RKW	US32D	RO	
1	PULL PLATE	BF 110X70C	US32D	RO	
1	SURFACE CLOSER	1431 (MOUNT AS REQ'D PER APPLICATION)	EN	SA	
1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO	
1	DOOR STOP	400/403/446 (AS REQ'D PER APPLICATION)	US26D	RO	
3	SILENCER	608-RKW		RO	

NOTES:
• CLOSERS SHALL NOT BE INSTALLED ON CORRIDOR SIDE OF DOORS; WHERE POSSIBLE INSTALL CLOSER ON DOOR FOR OPTIMUM AESTHETICS.

END OF SECTION 087100

BRAVO BLDG SET 03-23-2026

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COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

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COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/30/2025	PERMIT SET

Drawn By: KRM
Checked By: Checker
Date: 02/07/2025
Job No.: 24029

Sheet Title
DOOR HARDWARE SCHEDULE

Sheet No.
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FINISH LEGEND

FLOORING

CPT-1: CARPET TILE
MFR: SHAW COMTRACT
COLLECTION: IN COMMON TILE 5T451
COLOR: LINK COLOR 50375
OPTION B IN COMMON TILE LINK 50580
OPTION C IN COMMON TILE MERGE 50518
OPTION D ALL TOGETHER TILE LINK COLOR 50375
OPTION E ALL TOGETHER TILE LINK 50580
OPTION F ALL TOGETHER TILE MERGE 50518
SIZE: 9" X 36"
INSTALL: ASHLAR

CPT-2: CARPET TILE
MFR: STATICWORK
COLLECTION: SHADOW FX PATTERN COLLECTION
COLOR: NOTCH PEAK
SIZE: 24" X 24"

LVP-1: /1
MFR: LUXURY VINYL TILE
COLLECTION: MOHAWK
COLOR: HOT AND HEAVY SECOYA
SIZE: 142 CAMEL OAK
OPTION B 7" X 48"
SHAW CONTRACT TERRAIN II TAUN

EVT-1: ELECTROSTATIC DISSIPATIVE VINYL TILE
MFR: STATICWORK
COLLECTION: ESD VINYL TILE
COLOR: ADIRONDAK RIDGE
SIZE: 12" X 12"

FT-1: FLOOR TILE
MFR: TRINITY SURFACES
COLLECTION: RUSTIK
COLOR: CHARCOAL
SIZE: 12" X 24"
INSTALL: ASHLAR
GROUT: MAPEI CHARCOAL 47
OPTION B PATHWAYS DARK GRAY, 12X24, MATTE

SC-1: SEALED CONCRETE

RF-1: /1
MFR: RUBBER SPORT FLOORING
COLLECTION: CENTAUR FLOOR SYSTEMS
COLOR: THRIVE
SIZE: CLEAN & JERK, CS502
OPTION B ROLL, 7.5MM x 4' WIDE
ROPPE TUFLEX SPARTUS NATURAL, 27X27 TILE

BASE

RB-1: WALL BASE
MFR: SHAW CONTRACT
STYLE: 4" COVE
COLOR: 2 EBONY
LOCATION: AS SPECIFIED

TB-1: TILE WALL BASE
MFR: TRINITY SURFACES
COLLECTION: RUSTIK
COLOR: CHARCOAL
SIZE: 12" X 24" CUT TO 6" X 24"
INSTALL: ASHLAR
GROUT: MAPEI CHARCOAL 47
OPTION B PATHWAYS DARK GRAY, 6X12 COVE BASE MATTE

WALLS

P-1: GENERAL PAINT
MFR: SHERWIN WILLIAMS, BASIS OF DESIGN
COLOR: SW7064 PASSIVE
FINISH: TWO (2) COATS LATEX EGGSHELL
OPTION B SW7015 REPOSE GRAY

P-2: TRIM PAINT
MFR: SHERWIN WILLIAMS, BASIS OF DESIGN
COLOR: SW7066 GRAY MATTERS
FINISH: TWO (2) COATS LATEX SEMI-GLOSS; TYPICAL FOR ALL INTERIOR DOOR FRAMES & MISC. TRIM
OPTION B SW7017 DORIAN GRAY

P-3: ACCENT PAINT
MFR: SHERWIN WILLIAMS, BASIS OF DESIGN
COLOR: SW7067 CITYSCAPE
FINISH: TWO (2) COATS LATEX
OPTION B SW7018 DOVE TAIL

ALL OPTION B PAINTS ARE FOR A WARMER GRAY SCHEME WHILE PAINTS LISTED AS PRIMARY ARE FOR A COOLER GRAY SCHEME

P-4: OPTIONAL ACCENT COLOR
MFR: SHERWIN WILLIAMS, BASIS OF DESIGN
COLOR: SW9139 DEBONAIR OR SW7609 GEORGIAN REVIVAL BLUE
FINISH: TWO (2) COATS LATEX EGGSHELL
NOTES: ONE WALL IN EACH OFFICE, DESIGN TEAM CAN INDICATE ADDITIONAL WALLS FOR ACCENTS IF OWNERS LIKE THE COLOR

EP-1 EXTERIOR HM DOOR AND HM FRAME PAINT
MFR: SHERWIN WILLIAMS, BASIS OF DESIGN
COLOR: MATCH EXTERIOR METAL FINISH BY PAC-CLAD MUSKET GRAY
FINISH: TWO (2) COATS LATEX SEMI GLOSS

WT-1: WALL TILE
MFR: STONESOURCE
STYLE: STUDIO ELEMENTS LIMESTONE
COLOR: IVORY
SIZE: 12"x24"
GROUT: MAPEI 11 SAHARA BEIGE
INSTALLATION: MONOLITHIC
OPTION B: PATHWAYS WHITE, 12x24

WT-2: SUBWAY TILE
MFR: GARDEN STATE TILE
STYLE: TOUCH
COLOR: DESERT GLOSS
OPTION B SLASH WHITE, 3X12
SIZE: 3"x12"
GROUT: MAPEI 11 SAHARA BEIGE
INSTALLATION: MONOLITHIC

ALL OPTION B TILES ARE TO BE REVIEWED TOGETHER AS AN ALTERNATE TO THE PRIMARY FINISHES LISTED

WT-3: SUBWAY TILE
MFR: ARCHITESSA
COLOR: MIST GRAIN GLOSSY PRESSED
SIZE: 3"x10"
GROUT: MAPEI 47 CHARCOAL
INSTALLATION: MONOLITHIC

FRP-1: FIBERGLASS REINFORCED PLASTIC
MFR: MARLITE, BASIS OF DESIGN
PATTERN: SMOOTH SURFACE
COLOR: S1005-A
SIZE: 4'0 X 8'0 SHEETS
CLASS: A
PROVIDE WITH BATTEN AND CORNER GUARDS AS REQUIRED

PLASTIC LAMINATE AND COUNTERTOPS

PL-1: PLASTIC LAMINATE
MFR: FORMICA
COLOR: WINTER SKY 8792-58
FINISH: MATTE
INSTALL: CABINETS VERTICAL
EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN

PL-2: PLASTIC LAMINATE
MFR: FORMICA
COLOR: ASHWOOD BEIGE 5785-NG
FINISH: NATURAL GRAIN
INSTALL: CABINETS VERTICAL
EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN

PL-3: PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: WHITE KINETIC AW 1800
FINISH: TEXTURED
INSTALL: COUNTERTOP
EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN

SS-1: SOLID SURFACE
MFR: WILSONART
COLOR: KIMBERLITE, 92J5CE
OPTION B MORNING ICE 9204CE
FINISH: POLISHED
LOCATION: TRANSACTION TOP

MISC.

MCT-1: /1
MFR: METAL COVE TRIM
STYLE: SCHLUTER
COLOR: DILEX-HKS
NOTES: STAINLESS STEEL CLASSIC GREY
PROVIDE ALL ACCESSORIES FOR INSIDE AND OUTSIDE CORNER TRANSITIONS AS NEEDED.

MT-2: /1
MFR: METAL TRIM
STYLE: SCHLUTER
COLOR: JOLY-EB
NOTES: STAINLESS STEEL
PROVIDE ALL ACCESSORIES FOR INSIDE AND OUTSIDE CORNER TRANSITIONS AS NEEDED.

WOOD DOORS

STD-1
SPECIES: SOLID CORE WOOD OAK STAIN GRADE
STAIN MFR: MINWAX
STAIN COLOR: MW431 WILLOWBEND
OPTION B MW2718 EBONY

CEILINGS

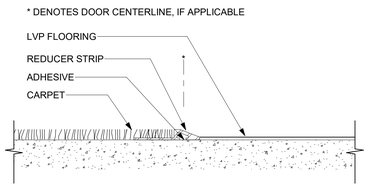
CP-1: CEILING PAINT / EXPOSED CEILING / SOFFIT
MFR: SHERWIN-WILLIAMS, BASIS OF DESIGN
COLOR: CEILING BRIGHT WHITE SW7007
FINISH: TWO (2) COATS LATEX FLAT

FINISH PLAN GENERAL NOTES

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.
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 SUBSTITUITONS DUE TO A CHANGE IN THE ORIGINAL SCHEDULE OR BUDGET MAY BE CONSIDERED ADDITIONAL SERVICES.
3. 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. OCCURING 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 WATERBORNE ACRYLIC SEMI-GLOSS B-31 SERIES, BASIS OF DESIGN.
10. ALL CASEWORK TO BE STAINED, SHALL BE FABRICATED PER AWI STANDARDS, REFER TO SPECIFICATIONS FOR CLARIFICATION.
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 MAINTAIN RECORDS.
12. INSTALL CARPET USING PRESSURE SENSITIVE ADHESIVE
13. FLOORING TRANSITIONS WILL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION., U.N.O.
14. WHERE FLOORING MATERIALS OF DIFFERING THCKNESSES MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES AND SMOOTH AS REQUIRED.
15. INSTALL CERAMIC, PORCELAIN AND STONE TILES WITH MANUFACTURER'S MINIMUM RECOMMENDED GROUT WIDTH, U.N.O.; GROUT TO BE SEALED
16. INSTALL REDUCER STRIPS WHERE CARPET TRANSITIONS TO HARD FLOORING, U.N.O., INSTALL VINYL REDUCER STRIP TO MATCH SCHEDULED BASE.
17. PAINT FIRE EXTINGUISHER CABINETS SEMI-GLOSS TO MATCH WALL ON WHICH IT OCCURS.
18. BASE CABINET PLASTIC LAMINATE TOE KICKS TO MATCH CORRESPONDING BASE CABINET PLASTIC LAMINATE SPECIFICATION, U.N.O.
19. ALL WET WALLS TO RECEIVE PROCELAIN 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. WALLCOVERING SAMPLES MUST BE CUT FROM ACTUAL ROLL TO BE USED FOR INSTALLATION. 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 DIFFEREN THICKNESSES 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, TV/ DISPLAY SCREENS AND MARKERBOARDS.
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 WITH TRANSACTION COUNTERS TO RECEIVE TOPS FABRICATED IN SOLID SURFACE, U.N.O. REFER TO INTERIOR ELEVATIONS FOR CLARIFICATION.
26. ALL CASEWORK TO RECEIVE TOPS FABRICATED IN PLASTIC LAMINATE, U.N.O. REFER TO INTERIOR ELEVATIONS FOR CLARIFICATION.
27. PROVIDE BLOCKING IN AREAS DESIGNATED TO RECEIVE OVERHEADS IN ALL OFFICES. TYPICAL CONDITION TO OCCUR AT WALL PARALLEL TO RETURN; REFER TO FINISH NOTE F-3 IN PLAN.
28. COVERPLATES ON DEVICES TO BE STAINLESS STEEL WITH GRAY OR BLACK RECEPTACLES.
29. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED CP-1. U.N.O.

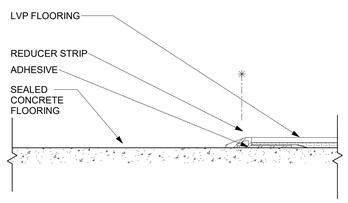
MILLWORK GENERAL NOTES

1. 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 SHOWN.
3. PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETRY (INCLUDING KNEE SPACES).
4. PROVIDE PLAM CLAD TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
5. GLASS PANELS ARE 1/4" CLEAR TEMPERED GLAZING U.N.O.
6. PROVIDE SIDE SPLASHES WHERE COUNTERTOPS ABUT WALLS AT SIDES - U.N.O.
7. PROVIDE COUNTERTOP BRACE SUPPORTS AT 48" O.C. MAX. @ KNEE SPACES & LAVATORY COUNTERS, U.N.O.
8. PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS EXACT LOCATION TO BE COORDINATED WITH THE OWNER IN THE FIELD AT THE TIME OF INSTALLATION.
9. PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETRY ATTACHED TO WALLS. SEE DETAILS FOR ATTACHMENT DETAILS.
10. PROVIDE ALL STRAIGHT RUN COUNTERTOPS THAT HAVE SINKS, WITH SEPARATE BACKSSPLASH TO COUNTERTOP.
11. FILE DRAWERS ARE NOTED ON ELEVATIONS. PROVIDE MINIMUM INSIDE CLEAR DIMENSIONS OF 13.5" WIDE BY 10.5" HIGH BY 20.5" DEEP.
12. CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O ON ELEVATION(S).
13. FOR FIELD APPLIED MIRRORS, EXTEND MIRRORS FROM THE TOP OF COUNTERTOP SPLASH TO 6'-0" A.F.F., U.N.O.
14. 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.
15. CABINET HARDWARE:
    A. DOOR HINGES TO BE BLUM 71T5580 CHROMED, CONCEALED, SELF-CLOSING.
    B. DRAWER SLIDES TO BE HEAVY DUTY ACCURIDE HAFELE #4034,
    C. DRAWER PULLS TO BE MOCKETT DP55A STAINLESS STEEL OR APPROVED EQUALS
    D. MILLWORK REVEALS: PITTCON, VENEER CHANNEL, VPR75-38/38
16. ALL RECEPTION/WAITING MILLWORK TO BE PREMIUM GRADE
17. ALL CABINET/FILES TO BE LOCKABLE



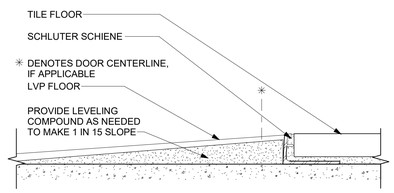
1 TRANSITION - CPT TO LVT/VCT /1

SCALE: 12" = 1'-0"



2 TRANSITION LVP TO CONCRETE /1

SCALE: 12" = 1'-0"



3 TRANSITION LVP TO TILE /1

SCALE: 12" = 1'-0"

/1 TRANSITION DESIGN FROM FLOOR TILE TO RUBBER FLOORING MATERIAL TO BE DETERMINED WITH RUBBER FLOOR SELECTION.
TRANSITION DESIGN FROM LVP TO RUBBER FOORING MATERIAL TO BE DETERMINED WITH RUBBER FLOOR SELECTION.

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

SHEAR STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
(678) 664-8051
SHEARSTRUCTURAL.COM

COVINGTON-NEWTON COUNTY 911 CENTER
CITY OF COVINGTON and NEWTON COUNTY
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COVINGTON, GA 30014

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Sheet Title
FINISH SCHEDULE & GENERAL NOTES

Sheet No.
ID-1.01

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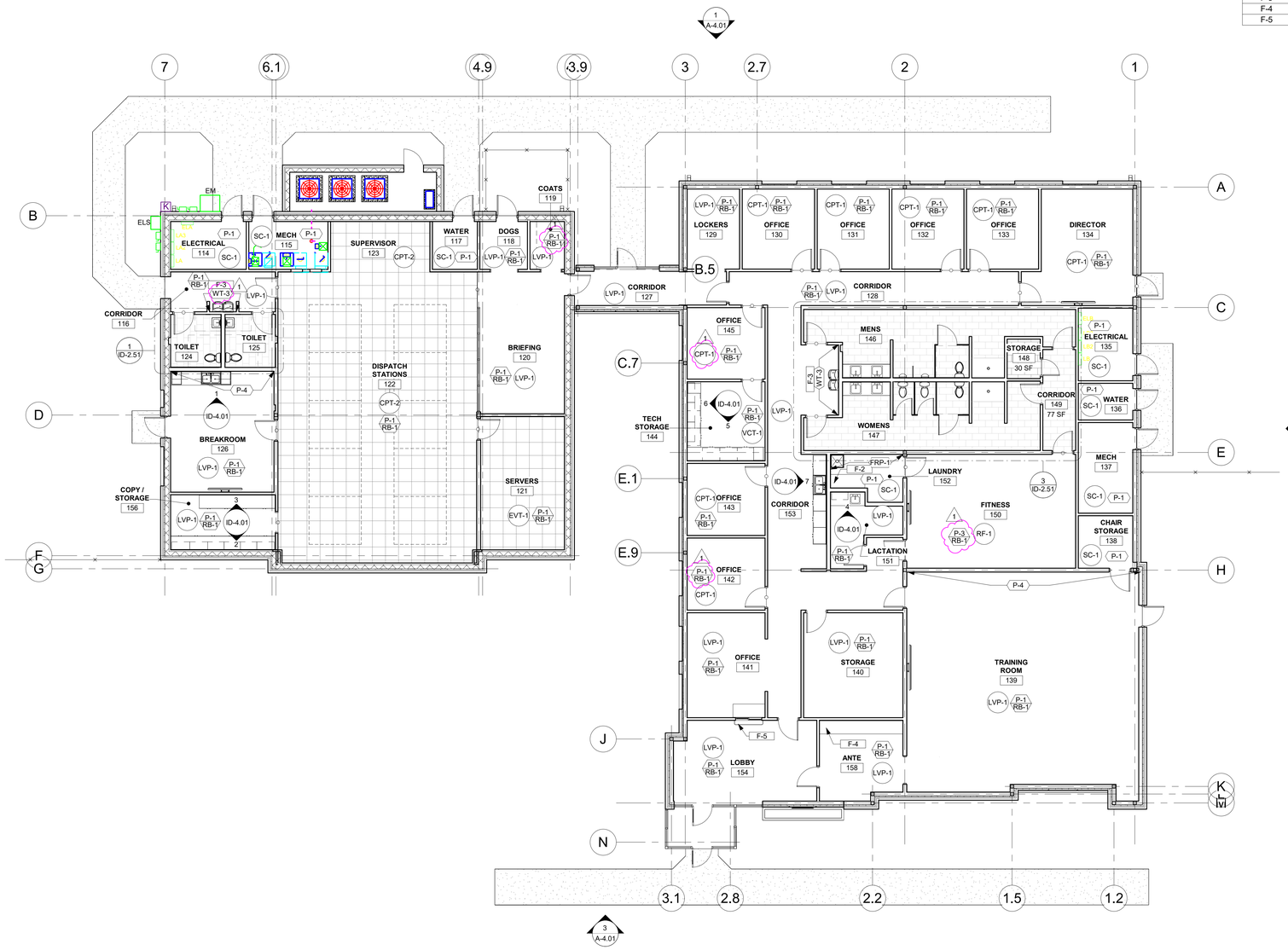
FINISH SYMBOL LEGEND

- P-38 / B-2 — WALL FINISH / BASE FINISH
- CPT-4 — FLOOR FINISH
- P-4 — ACCENT WALL FINISH
- FLOOR TRANSITION
- F-# — FINISH PLAN KEY NOTES
- FLOOR FINISH DIRECTION

KEY NOTES - FINISH PLAN

KEY NOTE #	DESCRIPTION
F-1	<varies>
F-2	5'-3"Dx24"wx36"H PLASTIC LAMINATE PL-3 COUNTERTOP WITH HIDDEN SUPPORTS AS REQUIRED
F-3	PROVIDE FULL HEIGHT WALL TILE WT-3
F-4	24" Dx36"h SOLID SURFACE COUNTER TOP WITH HIDDEN SUPPERTS AS REQUIRED
F-5	SOLID SURFACE SS-1 TRANSACTION LEDGE



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Sheet Title
FINISH & REFERENCE PLAN - LEVEL 1

Sheet No.
ID-2.01

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GRAPHIC SCALE
0 4 8 16

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

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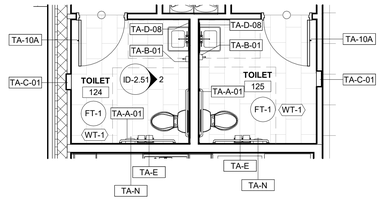
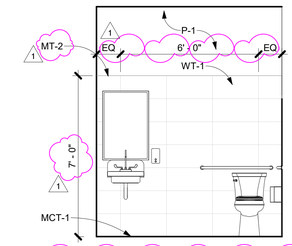


1 **SINGLE TOILET**
SCALE: 1/4" = 1'-0"



ALL SINGLE TOILETS TO RECEIVE WT-1 UP TO 84" AFF WITH METAL TRIMS FROM FLOOR TILE TO WALL TILE AND A METAL TRIM TO CAP OFF EXPOSED EDGES OF TILE AT TOP.

2 **UNISEX TOILET**
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY SCHEDULE

TAG NO.	DESCRIPTION	MANUFACTURER	MODEL	FURNISHED BY CONTRACTOR	FURNISHED BY OWNER	INSTALLED BY CONTRACTOR	INSTALLED BY OWNER	COMMENTS
TA-10A	COAT HOOK	AMERICAN SPECIALTIES INC.	0714	X		X		COORDINATE COAT HOOK WITH TOILET PARTITIONS FOR GANG RESTROOMS. CONTRACTOR TO PROVIDE HOOK AT ALL OTHER LOCATIONS INDICATED IN PLANS. 1
TA-A-01	1-1/2" DIA. 36 x 42 ADA GRAB BARS	BOBRICK	B-6806x36; B-6806x42	X		X		
TA-B-01	WALL MOUNTED SOAP DISPENSER	BOBRICK	B-4069	X		X		
TA-C-01	TOWEL DISPENSER/WASTE RECEPTACLE - RECESSED	BOBRICK	B-369	X		X		
TA-C-04	HAND DRYER	BOBRICK	B-7128	X		X		
TA-D-08	CHANNEL-FRAME MIRROR 24x36	BOBRICK	B-165 2436	X		X		
TA-E	TOILET PAPER DISPENSER	BOBRICK	B-3588	X		X		
TA-N	SANITARY NAPKING DISPOSAL	BOBRICK	B-270	X		X		
TA-T-02	60" SHOWER ROD & CURTAIN	INPRO	B-207 X 60	X		X		

MILLWORK GENERAL NOTES

1. 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 SHOWN.
3. ALL WORKSURFACES & COUNTERTOPS ARE PL-2 U.N.O.
4. PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETRY (INCLUDING KNEE SPACES).
5. PROVIDE PLAM CLAD TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
6. GLASS PANELS ARE 1/4" CLEAR TEMPERED GLAZING U.N.O.
7. PROVIDE SIDE SPLASHES WHERE COUNTERTOPS ABUT WALLS AT SIDES - U.N.O.
8. PROVIDE COUNTERTOP BRACE SUPPORTS AT 48" O.C. MAX. @ KNEE SPACES & LAVATORY COUNTERS, U.N.O.
9. PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS EXACT LOCATION TO BE COORDINATED WITH THE OWNER IN THE FIELD AT THE TIME OF INSTALLATION.
10. PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETRY ATTACHED TO WALLS. SEE DETAILS FOR ATTACHMENT DETAILS.
11. PROVIDE ALL STRAIGHT RUN COUNTERTOPS THAT HAVE SINKS, WITH SEPARATE BACKSSPLASH TO COUNTERTOP.
12. FILE DRAWERS ARE NOTED ON ELEVATIONS. PROVIDE MINIMUM INSIDE CLEAR DIMENSIONS OF 13.5" WIDE BY 10.5" HIGH BY 20.5" DEEP.
13. CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O ON ELEVATION(S).
14. FOR FIELD APPLIED MIRRORS, EXTEND MIRRORS FROM THE TOP OF COUNTERTOP SPLASH TO 6'-0" A.F.F., U.N.O.
15. 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.
16. ALL MILLWORK/CASEWORK TO BE PL-1 U.N.O.

CABINET HARDWARE:

DOOR HINGES TO BE BLUM 71T5580 CHROMED, CONCEALED, SELF-CLOSING. DRAWER SLIDES TO BE HEAVY DUTY ACCURIDE HAFELE #4034, DRAWER PULLS TO BE MOCKETT DP55A STAINLESS STEEL OR APPROVED EQUALS MILLWORK REVEALS: PITTCON, VENEER CHANNEL, VPR75-38/38

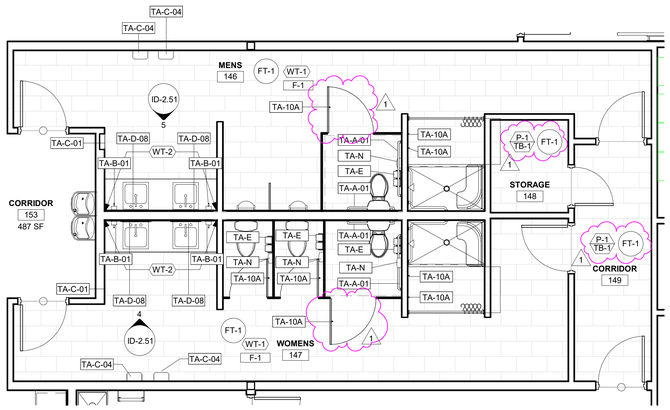
ALL RECEPTION/WAITING MILLWORK TO BE PREMIUM GRADE

ALL EXAM ROOM MILLWORK AND P-LAM CASEWORK TO PER AWI STANDARDS.

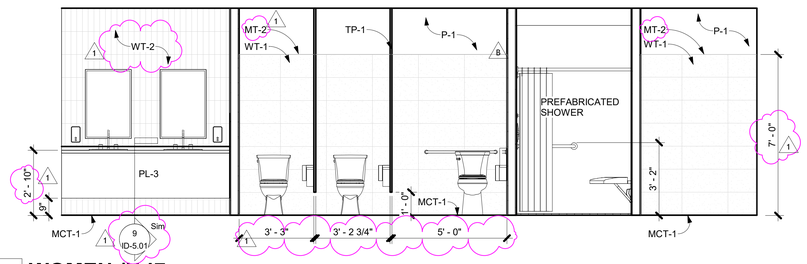
ALL CABINET/FILES TO BE LOCKABLE

INTERIOR ELEVATION NOTES

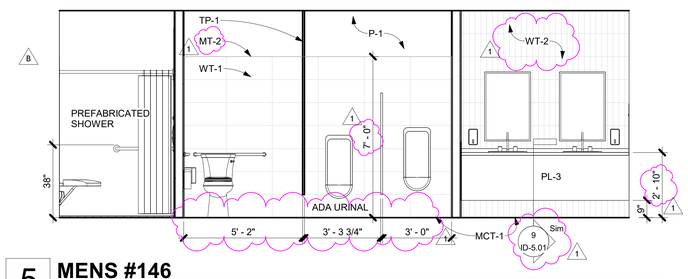
1. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT OUTLINED IN "EQUIPMENT LEGEND" WITH OWNER & OWNER'S MEDICAL EQUIPMENT REPRESENTATIVE. THIS INCLUDES VERTICAL AND HORIZONTAL MOUNTING HEIGHTS OF ALL DEVICES, COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING. THE ARCHITECT SHALL RECEIVE SHOP DRAWINGS SHOWING FINALIZED SELECTION OF EQUIPMENT AND SPECIFICA MODEL NUMBERS REVIEWED BY DESIGN TEAM/ENGINEERS PRIOR TO PROCEEDING WITH SCOPE OF WORK.
2. ELECTRICAL OUTLETS ARE ONLY SHOWN FOR COORDINATION WITH EQUIPMENT, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION..
3. LOW VOLTAGE BY OWNER'S REPRESENTATIVE.
4. FURNITURE SHOWN IS TO BE PROVIDED BY OWNER U.N.O. GENERAL CONTRACTOR TO COORDINATE WITH OWNER ON DELIVERY SCHEDULE.



3 **MENS #146 & WOMENS #147 RESTROOM**
SCALE: 1/4" = 1'-0"



4 **WOMEN #147**
SCALE: 3/8" = 1'-0"



5 **MENS #146**
SCALE: 3/8" = 1'-0"

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208 Pirkle Ferry Road, Suite C
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SUNBELT BUILDERS

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ENLARGED FINISH PLANS & ELEVATIONS

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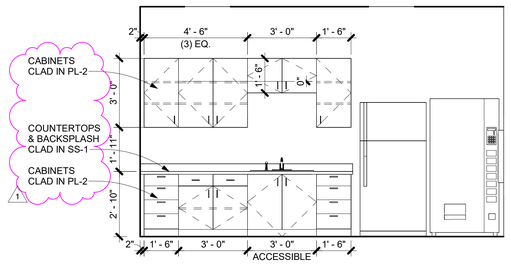
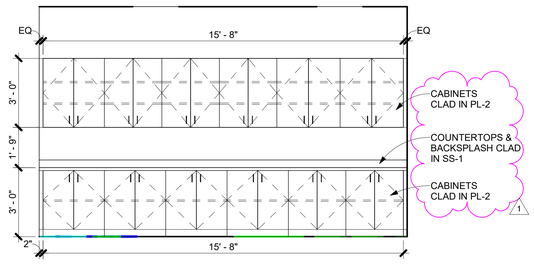


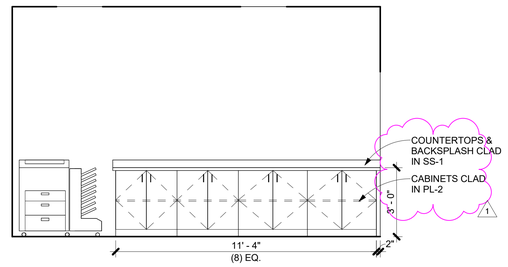
1 BREAKROOM #126

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



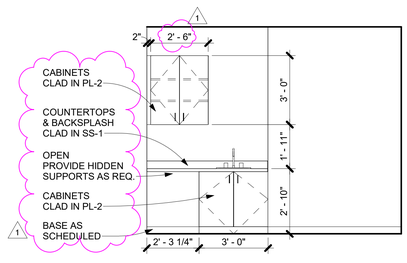
2 COPY/STORAGE ELEV-A

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



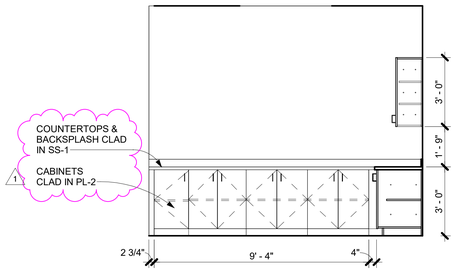
3 COPY/STORAGE ELEV-B

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



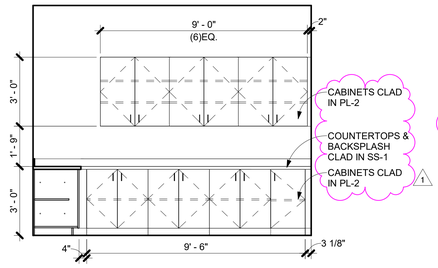
4 LACTATION #151

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



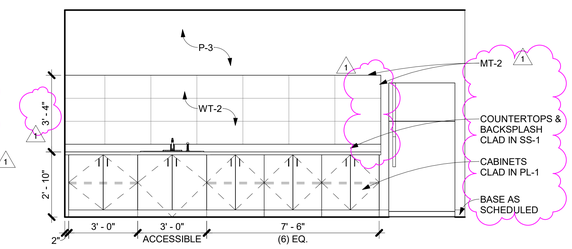
5 TECH STORAGE #144 ELEV-A

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



6 TECH STORAGE #144 ELEV-B

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



7 CORRIDOR #153

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

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208 Pirkle Ferry Road, Suite C
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SUNBELT BUILDERS

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INTERIOR ELEVATIONS

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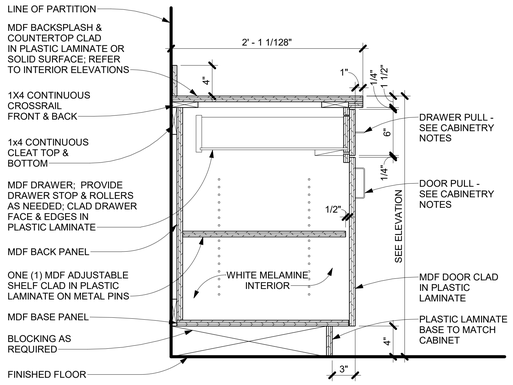
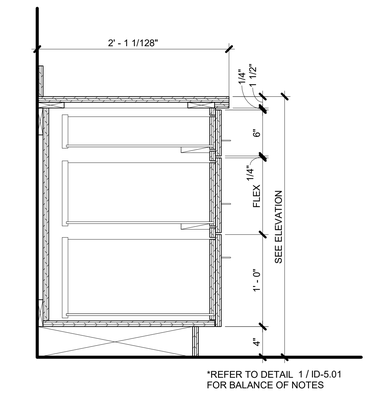


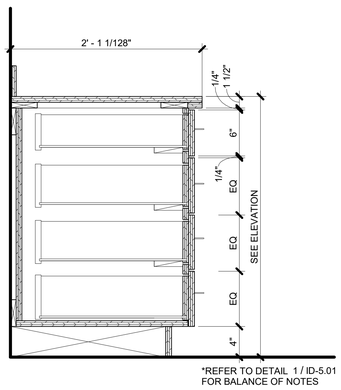
1 BASE CABINET - 1 DRAWER & DOORS

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



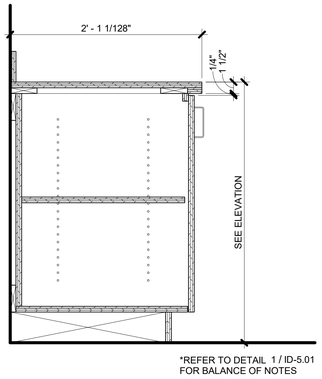
2 BASE CABINET - 3 DRAWERS

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



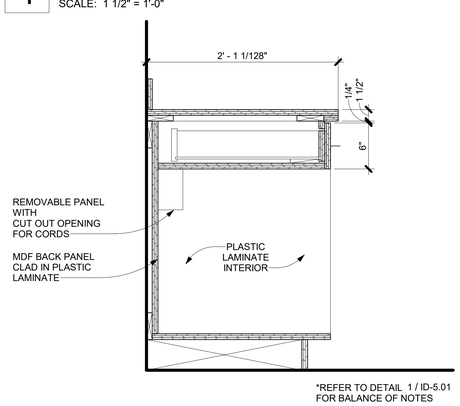
3 BASE CABINET - 4 DRAWERS

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



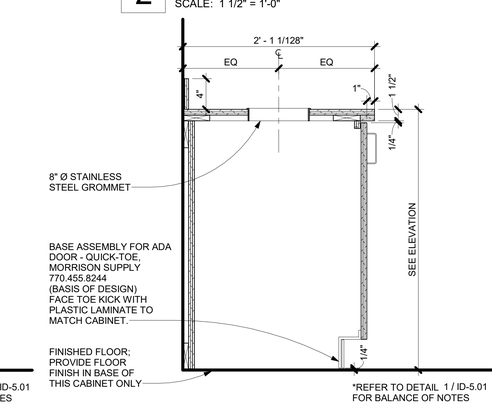
4 BASE CABINET - DOOR

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



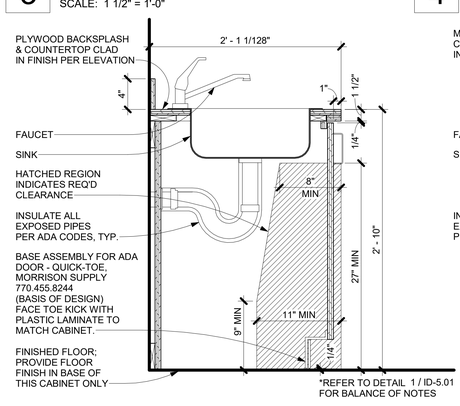
5 BASE CABINET - CPU CUBBY

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



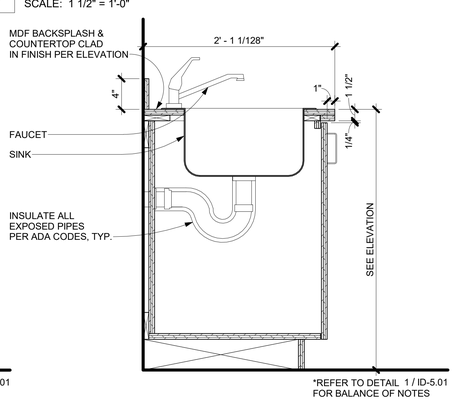
6 BASE CABINET - TRASH GROMMET

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



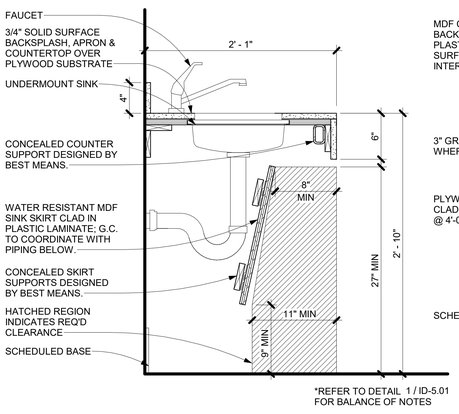
7 BASE CABINET - ACCESSIBLE SINK

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



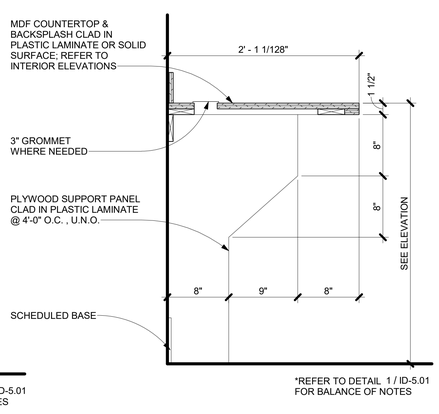
8 BASE CABINET - SINK

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



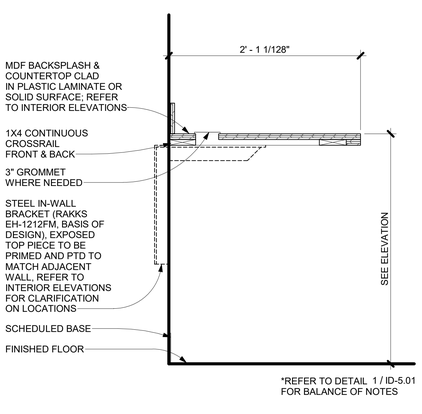
9 COUNTERTOP - ACCESSIBLE SINK

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



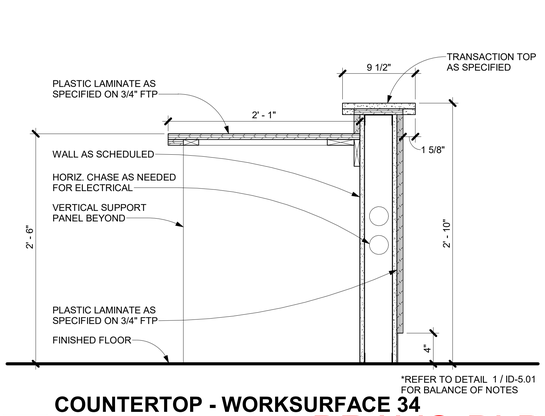
10 COUNTERTOP - WORKSURFACE

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



11 COUNTERTOP - WORKSURFACE

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



12 COUNTERTOP - WORKSURFACE HEIGHT

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

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Cumming, GA 30040

SUNBELT BUILDERS

TOTAL ENGINEERS

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931 MONROE DRIVE
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COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY
10796 HWY 36
COVINGTON, GA 30014

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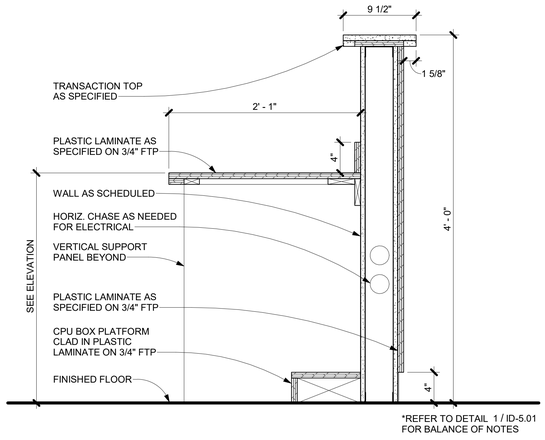
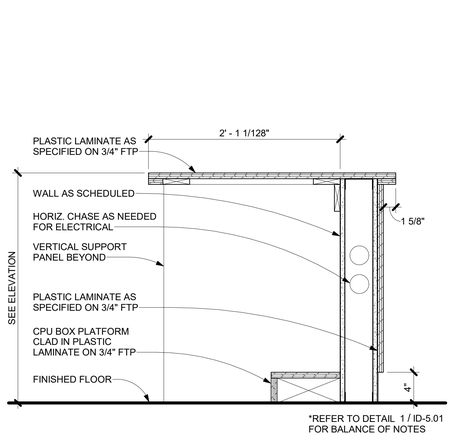


1 COUNTERTOP - WORKSURFACE

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



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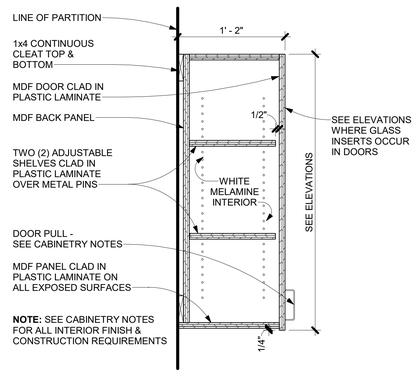
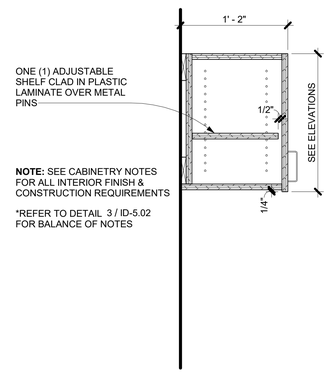
SCALE: 1 1/2" = 1'-0"



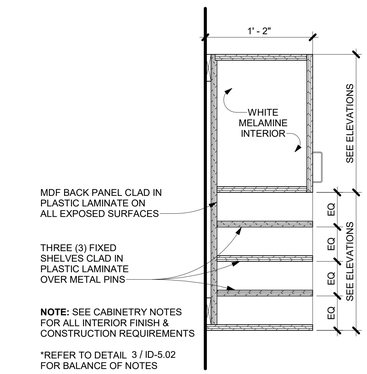
3 UPPER CABINET - DOOR

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



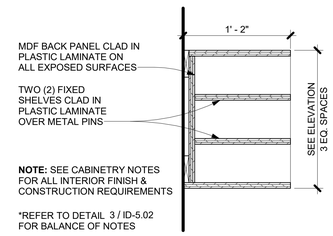
4 UPPER CABINET - DOOR OVER SINK

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



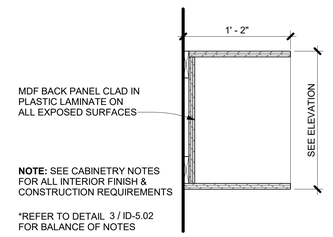
5 UPPER CABINET - DOOR & SLOTS

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



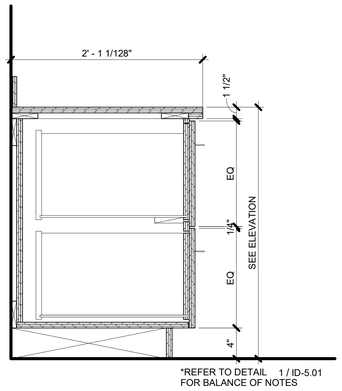
6 UPPER CABINET - CUBBIES

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



7 UPPER CABINET - CUBBIES

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



8 BASE CABINET - 2 FILES

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

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FIRE PROTECTION BASIC MATERIALS AND METHODS (FIRE PROTECTION SECTION 1 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.

B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.

C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.

D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).

E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.

F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.

H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.

J. NFPA 72 – National Fire Alarm Code.

K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.

L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))

M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..

O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.

P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.

B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.

C. Project As-Built Documents: Record actual locations of components and tag numbering.

D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

A. Fire Protection

1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft2 of protected area or greater.
2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.

B. Conform to UL and FM requirements.

C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.

D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Deliver and store valves in shipping containers, with labeling in place.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

A. Sprinkler Systems: Conform work to NFPA 13.

B. Standpipe and Hose Systems: Conform to NFPA 14.

C. Welding Materials and Procedures: Conform to ASME Code.

D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.

E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.

F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.

G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.

H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.

I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect.Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.
1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

2.4 PIPE HANGERS AND SUPPORTS

A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.

B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.

C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

D. Vertical Support: Steel riser clamp.

E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.

G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

A. Up to and including 2 inches:
1. Manufacturers:
a. Nibco Scott; Product T-104-O
b. Jenkins; Product 275U
c. Hammond; Product 1B681
d. Stockham; Product B-133
e. Kennedy; Product Fig. 66
2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.

B. Over 2 inches:
1. Manufacturers:
a. Nibco Scott; Product F-607-OTS
b. Crane; Product 467
c. Jenkins; Product 825-A
d. Hammond; Product 1R1154
e. Stockham; Product G-634
f. Kennedy; Product Fig. 68
2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.

B. Up to and including 2 inches:
1. Manufacturers:
a. Nibco-Scott; Product KT-65.
b. Kennedy; Product 97SD.
c. United; Product 125S.
d. Fairbanks; Product 4691-3.

2.7 ANGLE VALVES

A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.

B. Up to and including 2 inches:
1. Manufacturers:
a. Nibco-Scott; Product T-301-W.
b. Kennedy; Product 985D.
c. United; Product 126S.
d. Fairbanks; Product 4691-3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

A. Iron body, U.L. Listed- F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.

B. Manufacturers:
1. Jenkins; Product 629
2. Crane; Product 375
3. Stockham; Product G-939
4. Mueller; Product A-2120-6
5. Kennedy; Product #126

2.10 INDICATOR POSTS

A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.

B. Manufacturers:
1. Kennedy Fig. Series 741.
2. Nibco NIP-1.
3. Stockham G-951.
4. Mueller A-20804.

2.11 UNDERGROUND GATE VALVES

A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, AWWA spec. C-500.

B. Manufacturers:
1. Kennedy Fig. 701X.
2. Nibco F-609.
3. Stockham G-635.
4. Mueller A-2075-20.
5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and foreign material, from inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.

B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.

C. Install post indicator valve (PIV) upstream of backflow device.

D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.

E. Install piping to conserve building space, to not interfere with use of space and other work.

F. Group piping whenever practical at common elevations.

G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present

H. Sleeve pipes passing through partitions, walls, and floors.

I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

J. Reducing Tees: Weld-on threaded outlet tees and Coupolet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAP300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.

K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.

L. Pipe Hangers and Supports:
1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
2. Place hangers within 12 inches of each horizontal elbow.
3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.

N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.

O. Do not penetrate building structural members unless indicated.

P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.

Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.

S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.

T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.

U. Provide drain valves at main shut-off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.

B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.

C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.

D. Chipped or scraped paint shall be retouched to match original finish.

E. All dents and sags in equipment casing shall be straightened.

F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.

3.4 FINISHING EQUIPMENT AND MATERIAL

A. Use paint systems specified in Division 9 for the substrates to be finished.

B. Paint shop-primed equipment.

C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

D. Paint all exposed pipes, unless otherwise indicated.

E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.

F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.

G. Paint all exposed un-insulated ferrous materials.

END OF SECTION

FIRE SUPPRESSION SPRINKLERS (FIRE PROTECTION SECTION 2 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wet Type Sprinkler System

B. Dry-pipe sprinkler system.

C. System design, installation, and certification.

D. Fire department connections.

1.2 REFERENCES

A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

B. Shop Drawings:
1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.

C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.

D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.

E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

A. Maintain one copy of referenced design and installation standard on site.

B. Conform to UL requirements.

C. Equipment and Components: Provide products that bear UL label or marking.

D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.

1.6 EXTRA MATERIALS

A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.

B. Provide suitable wrenches for each sprinkler type.

C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

A. Sprinkler System: Provide coverage for entire building.

B. Occupancy: comply with NFPA 13.

C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.

D. Interface system with building fire alarm system.

E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.

B. All sprinklers installed shall be by the same manufacturer.

C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.

D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.
1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick response Glass bulb type temperature rated for specific area hazard.

E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.
1. Finish: Brass.
2. Escutcheon Plate Finish: Enamel, Verify color with architect.

F. Exposed Area Type: Standard upright type.
1. Finish: Brass.
2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.

G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.
1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick Response Fusible solder link type temperature rated for specific area hazard.

H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALTIES

A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.

B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.

C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.

D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.

E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.

F. Fire Department Connections: Elkhart, Croker Standard, Potter Roemer.
1. Type: Free standing type with ductile iron pedestal chrome plated finish.
2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
3. Drain: 3/4 inch automatic drip, outside.
4. Label: "Sprinkler – Fire Department Connection".

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with referenced NFPA design and installation standard and these specifications.

B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.

C. Install equipment in accordance with manufacturer's instructions.

D. Each floor of multi story buildings shall be zoned.

E. All dry system piping shall be galvanized down stream of dry valve.

F. Install buried shut-off valves in valve box. Provide post indicator.

G. Provide approved double detector check assembly at sprinkler system water source connection.

H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.

I. Locate outside alarm gong on building wall at piping entrance to building.

J. Place pipe runs to minimize obstruction to other work.

K. Place piping in concealed spaces above finished ceilings.

L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.

M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.

N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct

O. Install air compressor on vibration isolators.

P. Flush entire piping system of foreign matter.

Q. Hydrostatically test entire system.

R. Require test be witnessed by Fire Marshall.

S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.

T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

3.2 INTERFACE WITH OTHER PRODUCTS

A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

A. System Hazard Areas:
1. Office & Public Areas and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Laundries, Mechanical Equipment Rooms and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

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Cumming, GA 30040

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Sheet Title
FIRE SPECIFICATIONS

Sheet No.
P-0.1

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PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:
A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Gas Code (2018 International Gas Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer. Provide PVC IPEX type 1 expansion joints on alternating floors on horizontal sewer, storm, and vent risers over 30 feet tall. Wrap piping in return air plenums with fire barrier plenum rated wrap.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60° with 1" thick type i performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elestomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings. Wrap piping larger than 2" in return air plenums with fire barrier plenum rated wrap.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:
   1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
   2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
      a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
      b. Fill and isolate system according to either of the following:
         1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
         2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
      c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
      d. Repeat procedures if biological examination shows contamination.
      e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Above ground natural gas piping shall be ASTM A53; Type E or S; Grade B; Schedule 40; black steel with malleable iron threaded fitting per ASME 16.3 Class 150. Flexible connectors shall comply be ANSI Z21.24 of copper alloy. Gas stops shall have bronze body with AGA stamp and bronze plug with lever handle. Valves shall be ASME B16.33 with IAS-listed bronze body. Coordinate connection of gas service and installation of meter with gas utility company. All piping shall be adequately supported. Prime & paint all exposed outdoor piping. Line gas pressure regulators shall comply with ANSI Z21.80. Appliance gas pressure regulators shall comply with ANSI Z21.18. Provide vent limiting device for regulators located indoors. Provide vent protector device for regulators located outdoors.

Underground natural gas piping shall be ASTM D2513 PE pipe and fittings joined by heat fusion; service-line risers with tracer wire terminated in an accessible location. PE Fittings shall be ASTM D 2683, socket-fusion type or ASTM D 3261, butt-fusion type with dimensions matching PE pipe. PE transition fittings shall be factory-fabricated fittings with PE pipe complying with ASTM D 2513, SDR 11; and steel pipe complying with ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Install underground PE natural-gas piping according to ASTM D 2774. Use Factory fabricated and leak tested service-line risers. Buried underground gas piping at least 36 inches below finished grade. Underground natural gas piping shall be installed with detectable warning tape on underground gas piping. Install tape directly above underground gas piping. Located tape 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

HW & CW Valves: Use pipe size valves, as shown below:
A. Ball: Spears CPVC True Union.
B. Check: Spears CPVC True Union.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psig pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall confirmed to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers. Water closet carrier shall be ASME A112.6.1M waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings gaskets, and feet; bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space if required.

Thermometers shall comply with standard ASME B40.200.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices. Provide pressure reduction valve(PRV) for pressure above 65 PSI

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and unconcealed until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

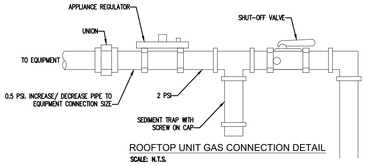
Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., Mcguire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem
Tankless Gas Water Heaters: A.O. Smith, Rheem, Rinnai, Bradley, Intellihot
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Expansion Tanks: AMTROL, State, Watts, Wilkins
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
Outlet Boxes: Acorn, IPS, Oatey
CPVC Valves: American, NIBCO, Spears
Circulation Pumps: Armstrong, Bell & Gossett, Grundfos, TACO
Showers: Aqua Bath, Aquarius, Clarion, Best Bath, Aqua Glass, Aquatic
Water Coolers: Elkay, Oasis, Haws
Mop Sinks: Stern Williams, Acorn, Fiat

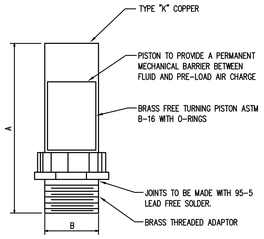
FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE BELOW FLOOR	WASTE FIXTURE CONN.	WATER SUPPLY COLD	WATER SUPPLY HOT	WATER FIX. CONN. COLD	WATER FIX. CONN. HOT	MODEL NUMBER
WC1	ADA WATER CLOSET	3"	3"	1"		1"		AMERICAN STANDARD 3043.001 WATER CLOSET & 6147121.002 FLUSH VALVE. CENTOCO 500ST5CSS SEAT. FLUSH CONTROL SHALL BE LOCATED ON OPEN SIDE OF WATER CLOSET.
WC2	WATER CLOSET	3"	3"	1"		1"		AMERICAN STANDARD 3043.001 WATER CLOSET & 6147121.002 FLUSH VALVE. CENTOCO 500ST5CSS SEAT.
LAV1	ADA WALL HUNG LAVATORY	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0355.012 LAVATORY & 6114.116.002 FAUCET.
LAV2	ADA DROP-IN LAVATORY	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD 0475.020 LAVATORY. MOEN 8413F05 FAUCET.
UR1	ADA URINAL	2"	2"	3/4"		3/4"		AMERICAN STANDARD 6002.001 URINAL & 6145013.002 FLUSH VALVE.
UR2	URINAL	2"	2"	3/4"		3/4"		AMERICAN STANDARD 6002.001 URINAL & 6145013.002 FLUSH VALVE.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
CCO	GRADE CLEANOUT	SEE DWGS	SEE DWGS					WATTS CO-200-RX-4-60.
FCO	FLOOR CLEANOUT	SEE DWGS	SEE DWGS					WATTS C012
EWC	BI-LEVEL ADA ELECTRIC WATER COOLER W/ BOTTLE FILLER	2"	1-1/4"	1/2"		3/8"		ELKAY LZSTL8WSLK
HB	EXTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 27
OB1	ICE MAKER BOX WITH WATER HAMMER ARRESTOR			1/2"		1/2"		WATER TITE AB9701HA.
OB2	WASHER BOX WITH WATER HAMMER ARRESTOR	2"	2"	1/2"	1/2"	1/2"	1/2"	WATER TITE W4701HA. USE GUY GRAY FRB12ABCHA FIRE RATED BOX ON FIRE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
SHR	ADA SHOWER 1.5 GPM	2"	2"	1/2"	1/2"	1/2"	1/2"	REFER TO ARCHITECTURAL FOR SHOWER BASE AND SURROUNDS. MOEN 83422EP15 SHOWER SYSTEM. WATTS SD SHOWER DRAIN. SHOWER VALVE TRIM WITH CARTRIDGE ON LONG WALL. HANDHELD SHOWERHEAD ON LONG WALL. FIXED SHOWERHEAD, & FIXED SHOWER ARM ON SHORT WALL. PROVIDE DIVERTER FOR FIXED SHOWER HEAD.
SNK1	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY DAYTON DSE23321 SINK. MOEN 7594 FAUCET.
SNK2	BAR SINK	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY DAYTON D11719 SINK. MOEN 8248 FAUCET.
MOP	MOLDED-STONE MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	FIAT MSB 2424, 830-AA SERVICE FAUCET WITH VACUME BREAKER, 832-AA HOSE AND HOSE BRACKET, ODC-3XH DRAIN CONNECOTR,SILICON SEALANT, STAINLESS STEEL WALL GUARD & VINYL BUMP GAURD
FS	FLOOR SINK	3"	3"					WATTS FS-500-150-DS.

NOTE: CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE TO OWNER/INTERIOR DESIGNER FOR APPROVAL BEFORE PURCHASING FIXTURE.



ROOFTOP UNIT GAS CONNECTION DETAIL
SCALE: N.T.S.



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 – 11	5"	1/2"
3/4"	B	12 – 32	5"	3/4"
1"	C	33 – 60	7"	1"
1-1/4"	D	61 – 113	7"	1-1/4"
1-1/2"	E	114 – 154	9"	1-1/2"
2"	F	155 – 330	9"	2"

WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.

GAS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	BTUH/KW
WH1	A.O. SMITH	ACT-199I-N	TANKLESS GAS	199,000 BTUH
WH2	A.O. SMITH	ACT-199I-N	TANKLESS GAS	199,000 BTUH
ET	WILKINS	XT-18	EXPANSION TANK	–

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE

ELECTRIC WATER HEATER & TANK SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	RATED GALLON	KW	MIN. UEF	*ELECTRICAL VOLTS	*ELECTRICAL PHASE
WH3	A.O. SMITH	ENT-40	RESIDENTIAL TALL ELECTRIC	36	4.5	0.92	208	1
ET	ZURN/WILKINS	XT-8	EXPANSION TANK		2.1			

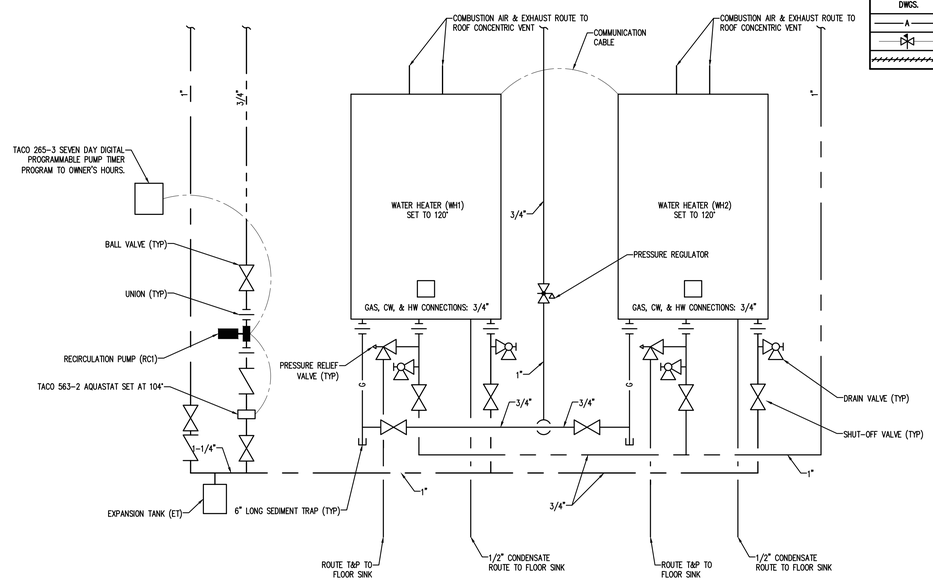
CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE.

PUMP SCHEDULE

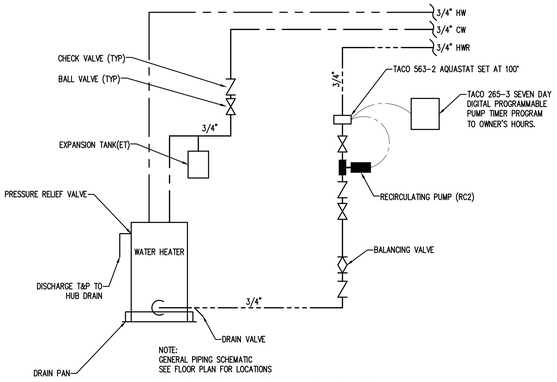
MARK	PUMP TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	RPM	WATTS	GPM	FEET HEAD	*ELECTRICAL VOLTS	*ELECTRICAL PHASE
RC1	RECIRCULATING	TACO	006e3	1140-3720	44	2.0	10.0	120	1
RC2	RECIRCULATING	TACO	006e3	1140-3720	44	2.0	10.0	120	1

LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN	CW	COLD WATER
	PIPE DOWN	—G—	GAS	CONN.	CONNECTION	HW	HOT WATER
PDI-B	PDI UNIT WATER HAMMER ARRESTOR	—GREASE—	GREASE LADEN SEWER	NTS	NOT TO SCALE	HWR	HOT WATER RETURN
DWGS.	DRAWINGS		SEWER VENT	VT	VENT	B.F.F.	BELOW FINISH FLOOR
	COMPRESSED AIR		SEWER	FFE	FINISHED FLOOR ELEVATION	CV	CLOSED VALVE
	PRESSURE REDUCING/ REGULATOR VALVE	—F—	FIRE SPRINKLER	FLR	FLR		
	DEMOLITION		EXISTING TO REMAIN		CONNECT TO EXISTING		



WH1 & WH2 THANKLESS WATER HEATER PIPING SCHEMATIC
SCALE: N.T.S.



WATER HEATER (WH3) PIPING SCHEMATIC
SCALE: N.T.S.

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PLUMBING SPECIFICATIONS & SCHEDULES

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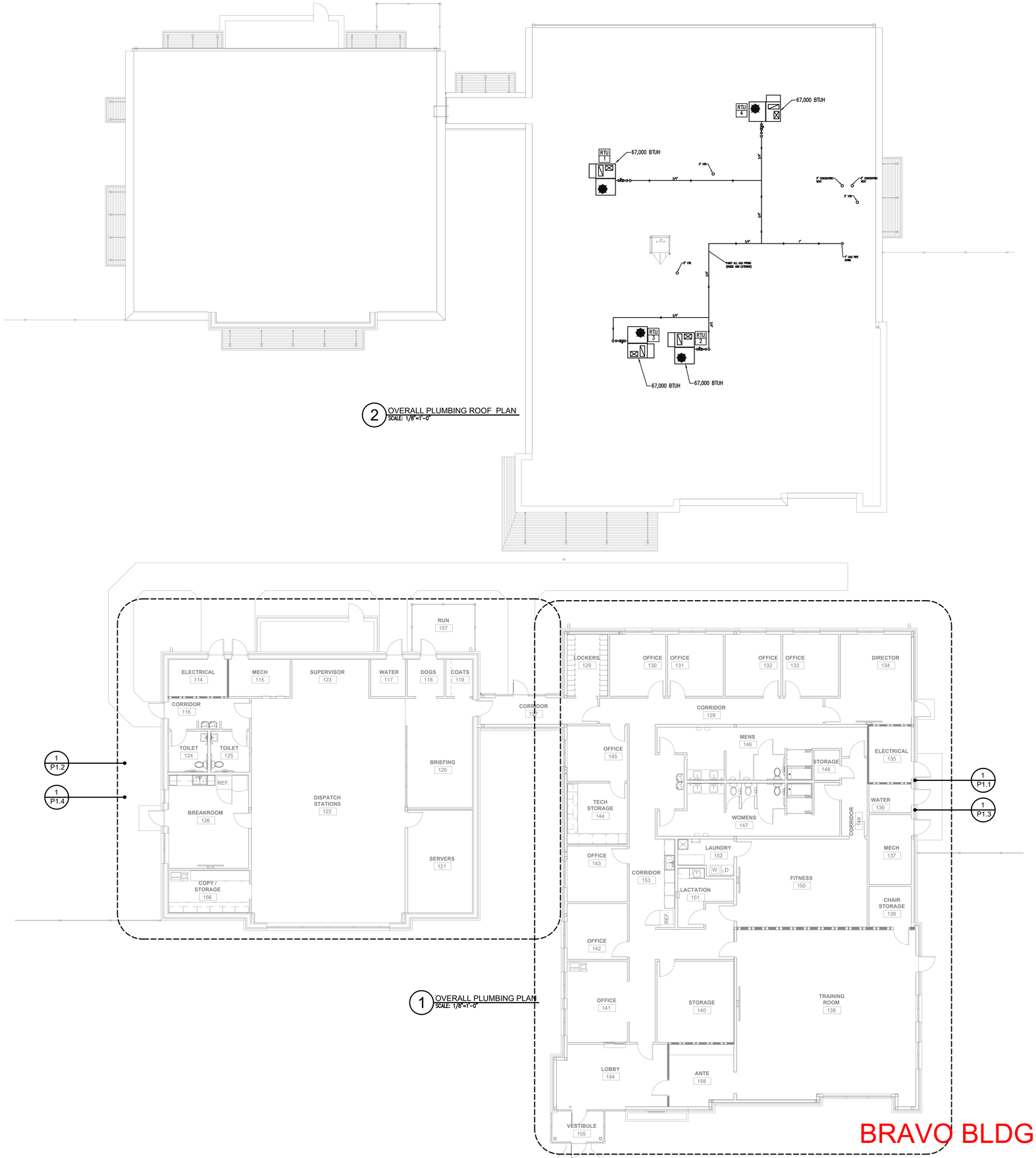

2 OVERALL PLUMBING ROOF PLAN
SCALE: 1/8"=1'-0"

1 OVERALL PLUMBING PLAN
SCALE: 1/8"=1'-0"

BRAVO BLDG SET 03-23-2026

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Thomas Brunal Prater
Brunal M Prater

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COVINGTON, GA 30014

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No.	DATE	DESCRIPTION

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Date Issue Date
Job No. 24029

Sheet Title
OVERALL PLUMBING PLANS

Sheet No.
P-1.0

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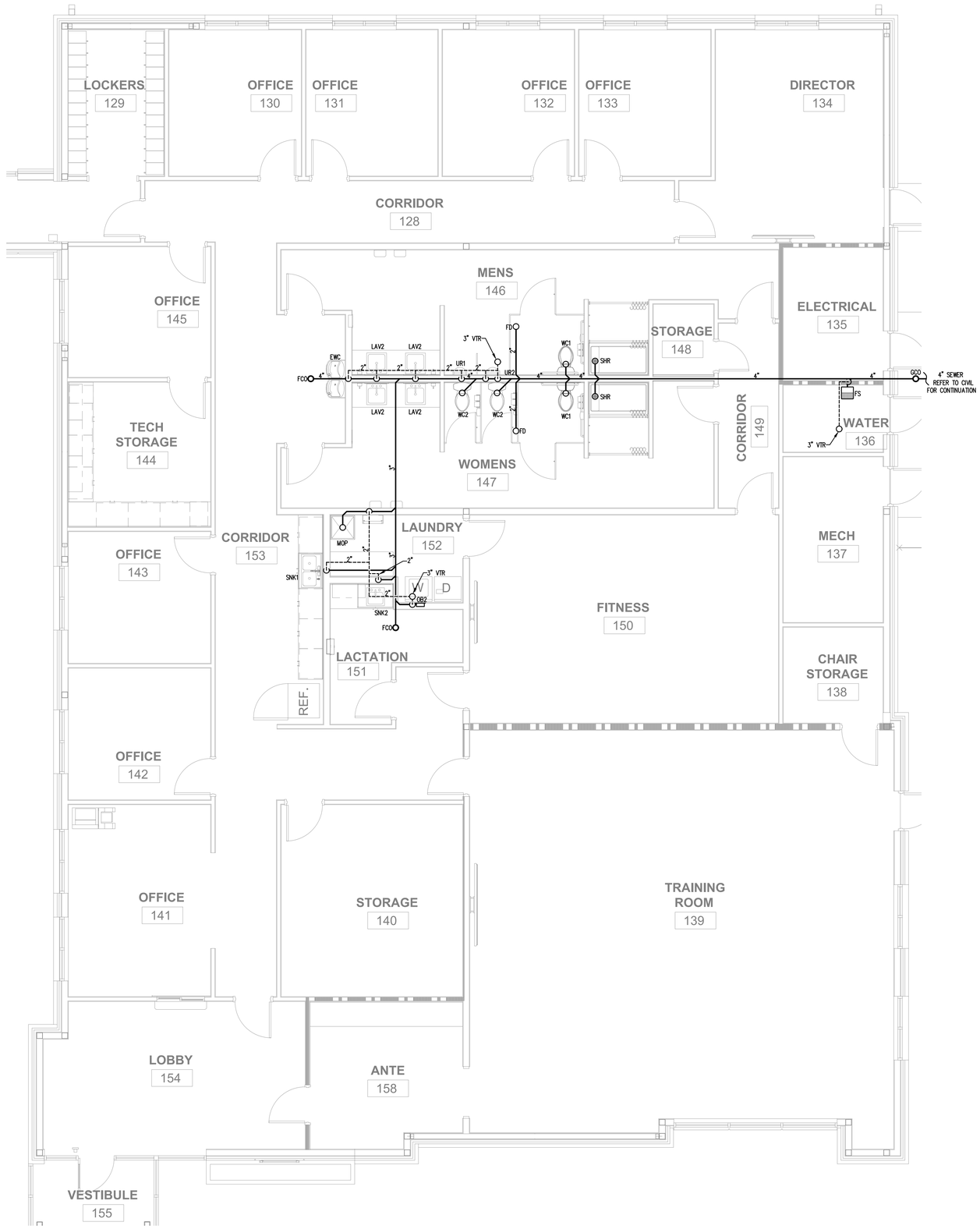

1 ENLARGED PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

TOTAL ENGINEERS
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(478)741-4632 - T.E. project # 24-085
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GEORGIA REGISTERED ENGINEER CRUNAL M PATEL

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Sheet Title
ENLARGED PLUMBING PLAN - SEWER

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P-1.1

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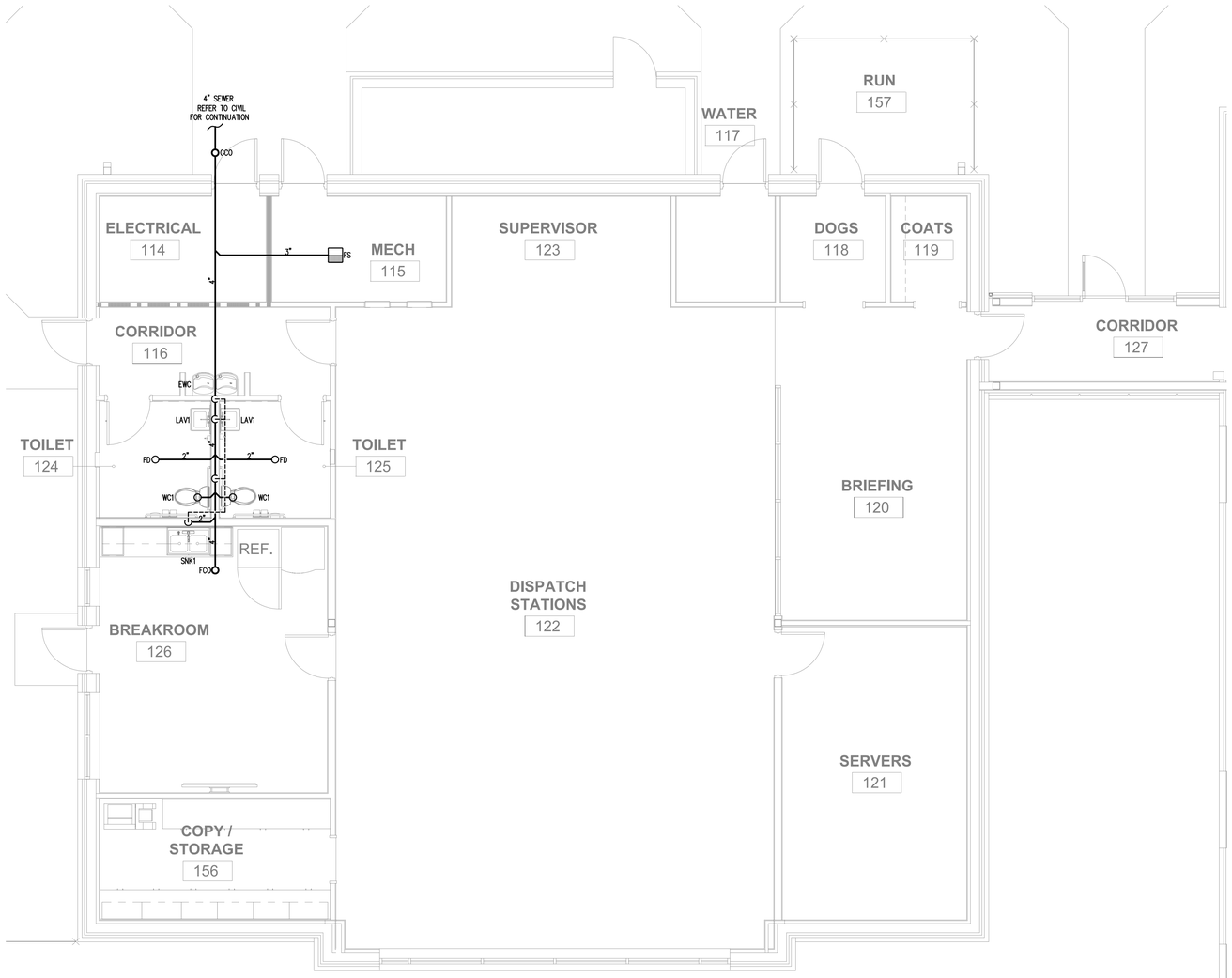

1 ENLARGED PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"

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ENLARGED PLUMBING PLAN - SEWER

Sheet No.
P-1.2

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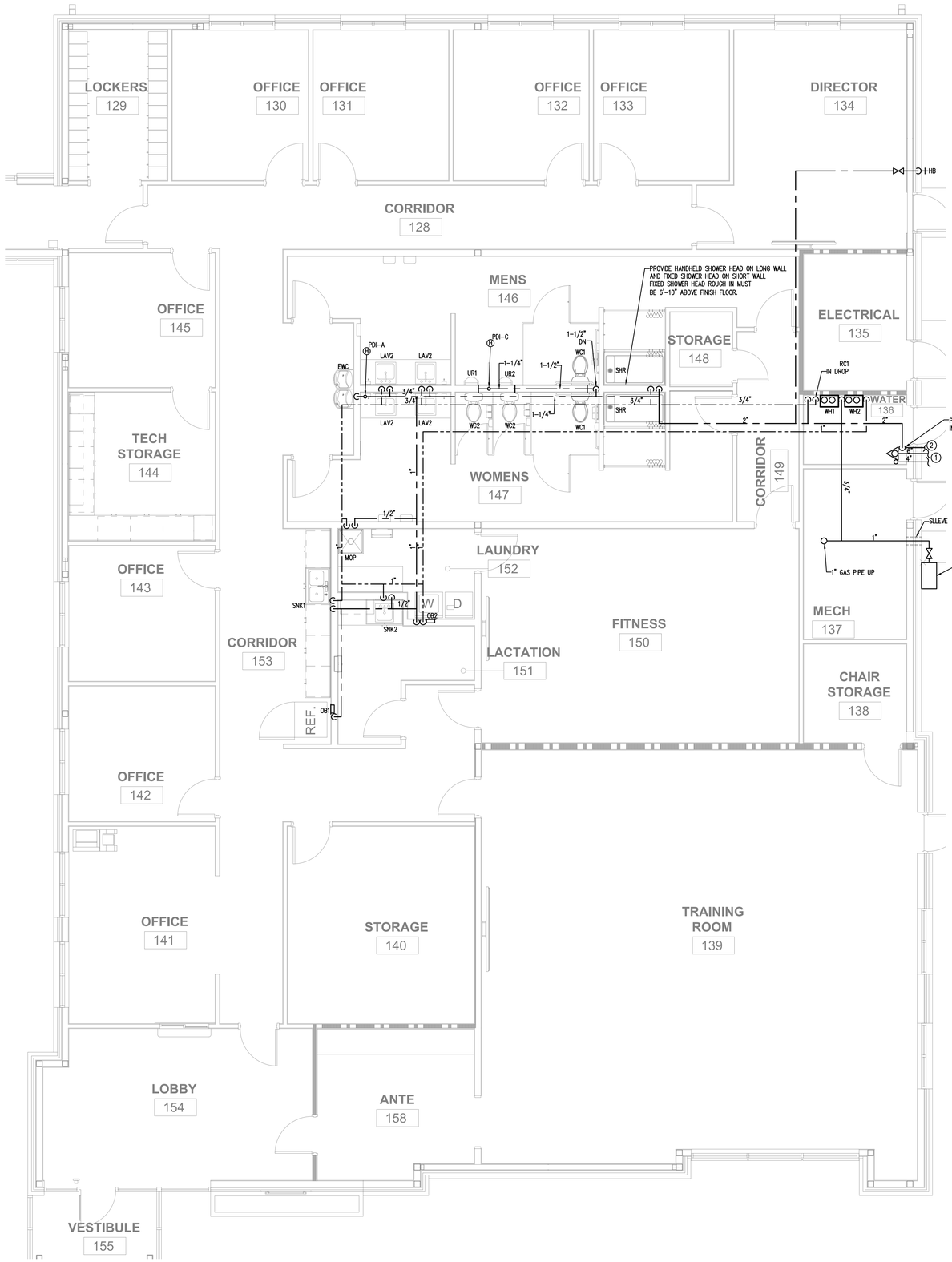

KEY NOTES(THIS SHEET ONLY):

1. 6" FIRE SPRINKLER FROM CITY SUPPLY & 4" FIRE TO REMOTE F.D.C. REFER TO CIVIL FOR CONTINUATION.
2. 2" WATER REFER TO CIVIL FOR CONTINUATION.

GAS NOTES:

NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING: PRIMARY PRESSURE IS 2 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 0.5 PSIG AT INDIVIDUAL POINTS OF USE.

GAS LOAD:

67,000 BTUH RTU-1 ROOFTOP UNIT
67,000 BTUH RTU-2 ROOFTOP UNIT
67,000 BTUH RTU-3 ROOFTOP UNIT
67,000 BTUH RTU-4 ROOFTOP UNIT
199,000 BTUH WH1 INSTANTANEOUS GAS WATER HEATER
199,000 BTUH WH2 INSTANTANEOUS GAS WATER HEATER
TOTAL BTUH: 666,000 BTUH

1 ENLARGED PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

BRAVO BLDG SET 03-23-2026

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GEORGIA REGISTERED PROFESSIONAL ENGINEER ARUNAL M PATEL

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Sheet Title
ENLARGED PLUMBING PLAN - WATER

Sheet No.
P-1.3

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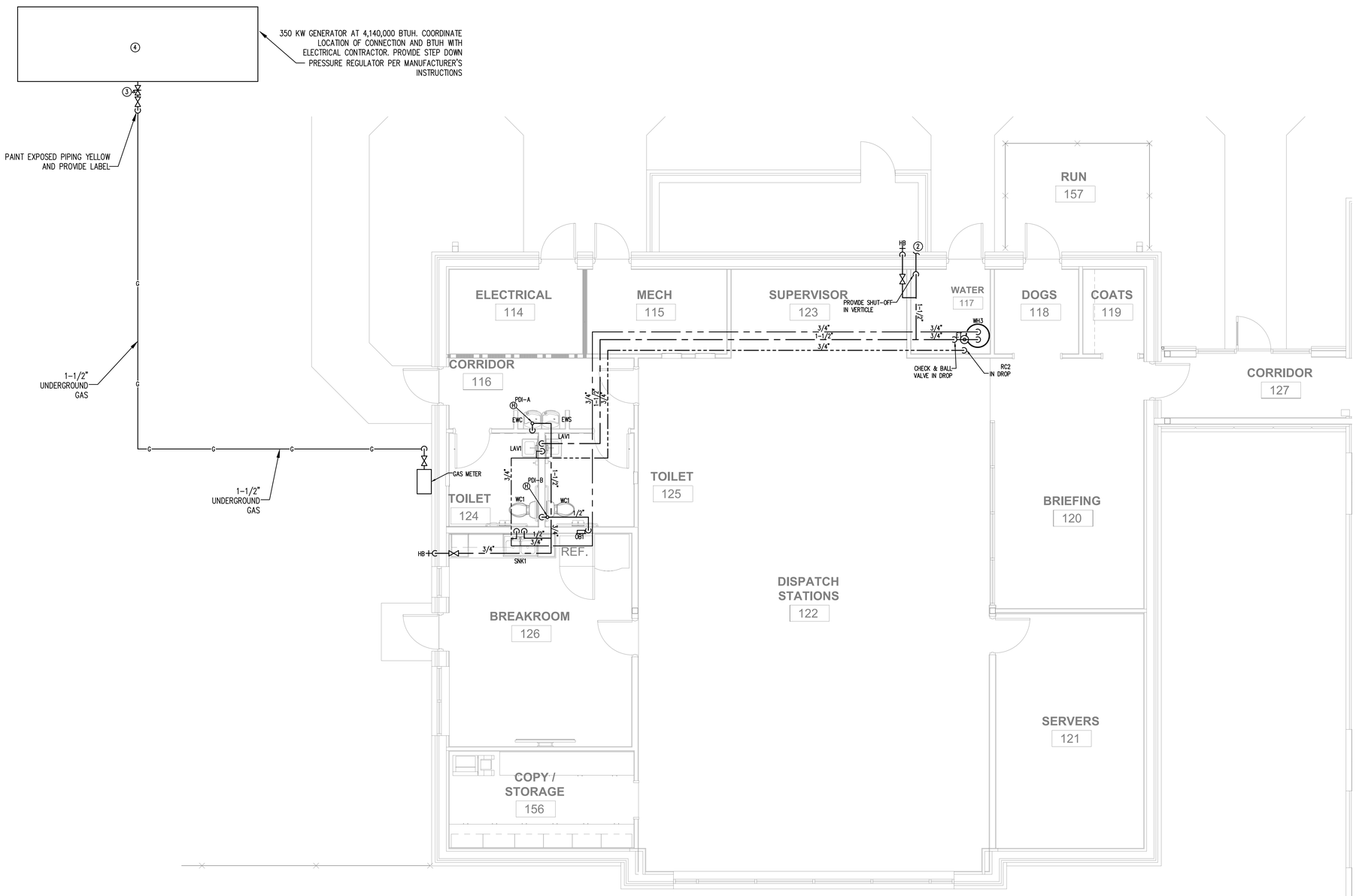

1 ENLARGED PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

KEY NOTES(THIS SHEET ONLY):

1. 6" FIRE SPRINKLER FROM CITY SUPPLY & 4" FIRE TO REMOTE F.D.C. REFER TO CIVIL FOR CONTINUATION.
2. 1-1/2" WATER REFER TO CIVIL FOR CONTINUATION.
3. CONTRACTOR SHALL MAINTAIN DISTANCE BETWEEN REGULATOR AND GENERATOR PER GENERATOR MANUFACTURER'S INSTRUCTION.
4. COORDINATE EXACT LOCATION OF GENERATOR WITH CIVIL.

GAS NOTES:
NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING:
PRIMARY PRESSURE IS 2 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 11"-14" (IN W.C) AT GENERATOR POINTS OF USE.

GAS LOAD
4,140,000 BTUH GENERATOR
TOTAL 4,140,000 BTUH

BRAVO BLDG SET 03-23-2026

JERICHO design group
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Cumming, GA 30040

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Job No. 24029

Sheet Title
ENLARGED PLUMBING PLAN - WATER

Sheet No.
P-1.4

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MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification, or required for a complete and proper installation.

2) Comply with all pertinent codes, ordinances, and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair, and replacement.

9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards–Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Flexible duct: Flex master; Atco UPC#36(R–6.0); Atco UPC#31 (R–8) or Thermaflex, Type 3, insulated. 5'–0" Maximum length unless noted otherwise. Class 1 rating with R–value of 6.0 when located inside building insulation envelope and R–8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2–inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36–onches of metal duct at penetration of draft stops, fire walls and smoke walls.

12) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press–on head Thickness: 1–inch.

13) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV–light exposure. All piping shall be adequately supported to maintain proper slope and avoid sagging.

14) Refrigerant piping shall conform to manufacturer's recommendations and installation instructions. Refrigerant piping shall be ASTM B280 Type ACR or ASTM B88 Type L drawn copper tubing with wrought copper fittings. Insulate suction line with ½? thick flexible foamed plastic cellular foam (Armaflex or equivalent). All piping shall be adequately supported. Insulation installed outdoors shall be painted with two coats of Armacell WB coating or equivalent. Refrigerant pipes shall be installed in accordance with ASHRAE standard 15–2022 section 9.12 and shall be tested in accordance with ASHRAE standard 15–2022 section 9.13. Contractor shall issue a letter to design team stating that refrigerant pipes has been installed and tested under the referenced sections. Contractor shall refer to ASHRAE standard 15–2022 sections 9.10 and 9.11 for additional information regarding refrigerant piping. Penetration of refrigerant pipes shall be protected with a through penetration protection means. The through penetration protection shall be the same or higher rating than the assembly.

15) Thermostats: Provide 24 volt, programmable 24–hour, 7–day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat–off–cool and fan control switch (auto–on), emergency heat switch (auxiliary/emergency heat indicator lights).

16) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.

17) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.

18) Indoor duct insulation: Foil–faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R–6), unless the insulated duct is outside building insulation envelope (attic, crawlspace, or unconditioned space) in which case the duct insulation thickness shall be 3? thick(R–8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass–Fiber Insulation: All service duct wraps with foil scrim and having backing and a k–value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb./cu. ft.

19) All supply, return and outside air ducts shall be insulated. All bathroom exhaust ducts, and dryer exhaust ducts shall be insulated. Install acoustical duct liner on the interior surface of the first five (5) linear feet of supply duct downstream and the last five (5) linear feet of return duct upstream of all air handlers and rooftop units. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil–faced fiberglass, 1.5#/cubic foot density, 2? thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.

20) All low–pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.

21) Make all duct elbows right angle type with single –thickness turning vanes or construct with centerline radius 1–1/2 times the duct width.

22) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.

23) Do not cut into or reduce the size of any structural member without the permission of the Architect.

24) Provide weather–proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.

25) Support all HVAC units, ductwork, piping, and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber–in–shear isolator. Between drain pan and unit provide 4 each rubber–in–shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non–structural components such as roof decks or non–load bearing walls.

26) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

27) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
   - a) Airflow rate at each supply, return and exhaust outlet or inlet.
   - b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
   - c) Motor speed, for multiple speed fans (e.g. high, medium, low).
   - d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
   - e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
   - f) Outside airflow rate to each HVAC unit and supply fan.
   - g) Motor current (and compare with nameplate data) at all motors.
   - h) Entering and leaving air dry–bulb and wet–bulb conditions at all cooling coils.
   - i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
   - j) Manufacturer, model, and serial number for each piece of HVAC equipment scheduled on drawings.
   - k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
   - l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON–OFF, 2–stage, variable output (SCR heaters), etc.

28) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

29) SUBMITTALS AND SUBMITTAL PROCEDURES:
   - a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
   - b. Transmit each submittal electronically in PDF format.
   - c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
   - d. Identify Project, the Contractor, Subcontractor, or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
   - e. Apply the 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.
   - f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights, and load distribution at mounting points.
   - g. Deliver submittals electronically to the Design Professional.
   - h. Schedule submittals to expedite the Project, and coordinate submission of related items.
   - i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   - j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
   - k. Provide space for the Contractor and the Architect/ review stamps.
   - l. When revised for resubmission, identify all changes made since previous submission.
   - m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
   - n. Submittals not requested will not be recognized or processed.
   - o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

30) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

31) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
   - a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
   - b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
   - c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
   - d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
   - e. Manufacturers' warranties.

32) Vertical Air Handler unit: Indoor fan–coil unit shall be direct–expansion vertical heat pump air handler with electric strip heat mounted on plenum with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rector seal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

33) Indoor, direct–expansion, wall–mounted fan coil. Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Unit shall be furnished with integral wall mounting bracket and mounting hardware. Cabinet discharge and inlet grilles shall be attractively styled, high–impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct–drive blower type with air intake at the top of the unit and discharge at the bottom front. Automatic, motor–driven vertical air sweep shall be provided standard. Air sweep operation shall be user selectable. The vertical sweep may be adjusted (using the remote control) and the horizontal air direction may be set manually. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and golden hydrophilic pre–coated. A drip pan under the coil shall have a drain connection for hose attachment to remove condensate. Condensate pan shall have internal trap. Motors shall be open drip–proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 4–speed. Controls shall consist of a microprocessor–based control system which shall control space temperature, determine optimum fan speed, and run self–diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless or wired remote controller shall have the ability to act as the temperature sensing location for room comfort. Refer to schedule for preference on wired or wireless thermostat. The unit shall have the following functions as a minimum: An automatic restart after power failure at the same operating conditions as at failure. A timer functions to provide a minimum 24–hour timer cycle for system Auto Start/Stop. Temperature–sensing controls shall sense return air temperature. Indoor coil freeze protection. Wireless infrared remote control and/or wired remote control as scheduled to enter set points and operating conditions. Automatic air sweep control to provide on or off activation of air sweep louvers. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature. Fan–only operation to provide room air circulation when no cooling is required. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit. Fan speed control shall be user–selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes. Automatic heating–to–cooling changeover in heat pump mode. Control shall include deadband to prevent rapid mode cycling between heating and cooling. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. Unit shall have filter track with factory–supplied cleanable filters. Indoor fan motor to operate on 115V on model size 12 and on 208–230V on model sizes 09–36, as specified. Power is supplied from the outdoor unit. All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines need to be insulated. The condensate pump shall remove condensate from the drain pan when gravity drainage cannot be used. Pump shall be designed for quiet operation. Pump shall consist of two parts: an internal reservoir/sensor assembly, and a remote sound–shielded pump assembly. A liquid level sensor in the reservoir shall stop cooling operation if the liquid level in the reservoir is unacceptable. Refer to schedule for providing condensate pump. Only provide condensate pump were indicated on schedule.

34) Small Split Condensing unit: Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors or panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser Coils: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high– and low–pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non–cycling reset relay. Provide a surge capacitor and lightning arrestor in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature were scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

35) Air Source Heat Pumps (HP): outdoor–mounted, air–cooled split system outdoor section suitable for rooftop installation, consisting of a hermetic compressor, an air–cooled coil, propeller–type blow–thru outdoor fans, accumulator, full refrigerant charge, and control box. Unit shall function as the outdoor component of an air–to air cooling system and used in a refrigeration circuit matched to the indoor unit. Unit construction shall comply with ANSI/ASHRAE 15, latest revision, the NEC, and UL standards. Provide rail support system compatible with roofing system. Refer to Schedule on Drawings for additional specifications.

36) Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflows exceeding 2,000 CFM, and where smaller air handling units have common return ductwork or plenum and total air flow exceeds 2,000 CFM. Install detector in accordance with the International Mechanical Code section 606 Smoke Detection Control System with Georgia Amendments 2018. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. For other fans, such as exhaust fans with design airflows exceeding 2,000 CFM, coordinate with the electrical/fire alarm subcontractor to provide room or duct smoke detectors. Where no fire alarm system is installed in building provide smoke detector, audio visual annunciator and trouble indicator in an approved location. Duct smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut–down relay.

37) Fire damper; curtain type with blades outside air stream except when located behind grilles when blades may be in air stream. Provide 1–1/2 hr class unless noted otherwise, vertical, or horizontal mounting as shown on drawings with re–placeable, rated, fusible link. Duct–Mounted Access Doors: Provide access doors for access to fire or smoke dampers having fusible links, doors shall be pressure relief access doors; and shall be outward operation for access doors installed upstream from dampers and inward operation for access doors installed downstream from dampers adjacent to and close enough to fire or smoke dampers, to reset or reinstall fusible links. Fabricate access panels according to SMACNA's "HVAC Duct Construction Standards – Metal and Flexible"; Figures 2–10, "Duct Access Doors and Panels," and 2–11, "Access Panels – Round Duct."

38) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted as the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets cemented to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter–sunk to fit flush with face of grille or register. Grilles passing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang–operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double–deflection type, with vertical front vanes. Construction shall be of steel, with 3/4–inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg–crate" design, with 1/2–inch x 1/2–inch x 1/2–inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint–ready exterior finish and 1–inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.

39) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip–proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

40) Hangers and supports: Building attachments: concrete inserts or structural–steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all–thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards—–Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self–tapping metal screws; compatible with duct materials. Trapeze and riser support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

41) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open–weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass–fiber fabric reinforced. Joint and seam sealant: one–part, nonsag, solvent–release–curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one–part, acid–curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use O.

42) Packaged Roof Top Units–Gas Heat: Outdoor packaged units, roof mounted, electrically controlled, 2–stage stage cooling with gas heat units, as scheduled, utilizing scroll hermetic compressor(s) for cooling duty and an indirect fired gas furnace section for heating duty. Unit shall discharge supply air vertically. Unit shall exceed ASHRAE 90.1–2001 Energy Standards, be rated in accordance with ARI Standards 210/240 or 360 and 270, in accordance with UL Standard 1995, conform to ASHRAE 15, latest revision, be UL–tested and certified in accordance with ANSI Z21.47 Standards. Factory assembled, single–piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, refrigerant charge, and thermal expansion valve. Unit cabinet shall be constructed of galvanized steel, and shall be phosphatized/bonderized and coated with a pre–painted baked enamel finish on all externally exposed surfaces. Coils shall have aluminum fins mechanically bonded to copper tubing. Evaporator fan compartment interior cabinet surfaces shall be insulated with a minimum 1/2–in. thick, 1 lb. density, flexible fiberglass insulation, neoprene coated on the air side. Cabinet insulation shall meet ASHRAE Standard 62P. Aluminum foil–faced fiberglass insulation shall be used in the gas heat compartment. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation. Cabinet panels shall be easily removable for servicing. Condenser coils shall have protective wire guards. Unit shall have a factory–installed, sloped condensate drain pan made of a non–corrosive material, with a minimum 3/4–in.–14 NPT connection and shall comply with ASHRAE Standard 62. Unit shall have 2–inch pleated MERV 7 disposable filters a removable, filter access panel to provide filter access. Unit shall have standard thru–the–bottom utility connection capability and accessory powered convenience receptacle. Provide matching pre–fabricated roof curb with direct, duct attachment capability. Provide low– and high–pressure safety switches, anti–short cycle safety, and low ambient operation. Provide microprocessor control panel and complete, factory–wired controls, including discharge air temperature sensor, and communications interface. Refer to schedule for layout basis. Substitutions shall match the features of specified model. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow. Refer to Schedule on Drawings for additional specifications.

43) Gravity Ventilators: Heavy gauge arched sheet aluminum with interlocking seams or spun aluminum with base for curb mounting. Provide matching pre–fabricated roof curb and bird screen. Provide normally closed gravity backdraft damper.

44) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

45) Louvers:4" deep, 12 gauge (0.081) etched and 30–minute clear anodized extruded aluminum, drainable blades, and frame; back mounted 1/2" mesh 19–gauge screen; flange frame. Louver shall be rated for no water carry–through at 900 face velocity, 0.15" maximum pressure drop for 4–foot square sample tested according to AMCA Standard 500, 1973. American Warming LE–33 (alum.); Ruskin [ELF–6375D; Louvers & Dampers IEL–6; Industrial Louvers 653 alum.; Vent Products #4650; Shipman LE–33 (alum.); Arrow United EA615–D (alum.); Greenheck ESD–403. Provide adapter to match corrugations in metal panel.

46) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four–point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal–type blower wheel and a permanently lubricated motor designed for continuous operation. Non–metallic damper/duct connector shall be included. Fan and heater shall be separately controllable. Fan shall contain electric heater Air delivery shall be no less than scheduled and sound level no greater than listed in the schedule. All air and sound ratings shall be certified by HVI.

47) Cabinet Exhaust Fan: Centrifugal Fan Unit: Direct driven with galvanized steel housing, resilient mounted motor, gravity backdraft damper in discharge. Disconnect Switch: Cord and plug in housing for thermal overload protected motor and wall mounted switch. Bottom of fan cabinet shall be removable for service to unit. Refer to Schedule on Drawings for additional specifications.

48) Acceptable Manufacturers are:

Air Handlers & Heat Pumps, Packaged Units:	Carrier, Trane, York, Lennox
Small Split Units:	Mitsubishi, Daikin, Hitachi, Toshiba
Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire (Color selection submitted to Architect)
Fans:	Twin–City, Cook, Greenheck, Penn Barry, Acme, American Cool Air, Captive Air, Solar & Palau
Louvers/Dampers/Fire Dampers:	United Enertech, Greenheck, Ruskin, Arrow United, Air Balance (Color selection submitted to Architect)
Controls–provided with unit:	Provide thermostats by same manufacturer as equipment

RTU-1
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SPACE FLOOR AREA	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
141 OFFICE	200	OFFICE SPACES(UNDER OFFICES)	5	1	5	0.06	17		
142 OFFICE	130	OFFICE SPACES(UNDER OFFICES)	5	1	5	0.06	11		
143 OFFICE	130	OFFICE SPACES(UNDER OFFICES)	5	1	5	0.06	11		
144 TECH STORAGE	145	OFFICE SPACES(UNDER OFFICES)	5	1	5	0.06	12		
145 OFFICE	130	OFFICE SPACES(UNDER OFFICES)	5	1	5	0.06	11		
154 LOBBY	275	MAIN ENTRY LOBBIES(UNDER OFFICES)	10	3	5	0.06	30		
155 VESTIBULE	60	MAIN ENTRY LOBBIES(UNDER OFFICES)	10	1	5	0.06	7		
TOTAL	1070			7			99	0	250

RTU-2
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SPACE FLOOR AREA	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
138 CHAIR STORAGE	65	STORAGE ROOMS (UNDER RETAIL STORES)	-	-	-	0	0		
139 TRAINING ROOM	1180	CLASSROOM (AGES 9 PLUS) (UNDER EDUCATION)	35	41	5	0	205		
158 ANTER ROOM	150	MAIN ENTRY LOBBIES (UNDER OFFICES)	10	2	5	0	10		
TOTAL	1395			43			215	0	315

Note: Provide global plasma ionization to decrease outdoor air requirement to 5 CFM/person. IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exeption found in section 403.2. GPS ionization is provided to further clean the air. GPS ionization eliminates pathogens and bacteria in the air.

RTU-3
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SPACE FLOOR AREA	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
140 STORAGE	245	STORAGE ROOMS (UNDER RETAIL STORES)	-	-	-	0.12	29		
150 FITNESS	450	HEALTH CLUB/WEIGHT ROOM (UNDER SPORTS)	10	5	20	0.06	117		
151 LACTATION	86	OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	10		
152 LAUNDRY	70	COMMERCIAL LAUNDRY(UNDER DRY CLEANERS,LAUNDRIES)	10	1	25	-	25		
153 CORRIDOR	570	CORRIDORS (UNDER PUBLIC SPACES)	-	-	-	0.06	34		
136 WATER	47	-	-	-	-	-	-		
137 MECH	115	-	-	-	-	-	-		
147 WOMEN	345	TOILET ROOMS (UNDER PUBLIC SPACES)	-	-	-	-	-	170	
148 STORAGE	35	STORAGE ROOMS (UNDER RETAIL STORES)	-	-	-	0.12	4		
149 COORIDOR	80	CORRIDORS (UNDER PUBLIC SPACES)	-	-	-	0.06	5		
128 CORRIDOR	225	CORRIDORS (UNDER PUBLIC SPACES)	-	-	-	0.06	14		
TOTAL	2268			7			238	170	250

RTU-4
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SUPPLY CFM	SPACE FLOOR AREA	SPACE CEILING HEIGHT FT	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
127 CORRIDOR		120		CORRIDORS (UNDER PUBLIC SPACES)	-	-	-	0.06	7		
129 LOCKERS		100		LOCKER/DRESSING ROOMS(UNDER EDUCATION)	-	-	-	-	-	25	
130 OFFICE		136		OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	13		
131 OFFICE		136		OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	13		
132 OFFICE		136		OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	13		
133 OFFICE		136		OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	13		
134 DIRECTOR		265		OFFICE SPACES (UNDER OFFICES)	5	2	5	0.06	26		
TOTAL		1029				6			86	25	190

AH-1
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SUPPLY CFM	SPACE FLOOR AREA	SPACE CEILING HEIGHT FT	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
156 COPY STORAGE		135		STORAGE ROOMS (UNDER RETAIL STORES)	-	-	-	0.12	16		
126 BREAKROOM		295		OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	25		
116 CORRIDOR		100		CORRIDORS (UNDER PUBLIC SPACES)	-	-	-	0.06	6		
124 TOILET		62		TOILET ROOMS (UNDER PUBLIC SPACES)	-	-	-	-	-	70	
125 TOILET		62		TOILET ROOMS (UNDER PUBLIC SPACES)	-	-	-	-	-	70	
TOTAL		654				1			47	140	115

AH-2 & AH-3
OUTSIDE AIR CALCULATIONS PER IMC TABLE 403.3.1.1

SPACE NAME	SPACE FLOOR AREA	OCCUPANCY CLASSIFICATION PER IMC TABLE 403.3.1.1	OCCUPANCY /1000SF	TIME AVERAGE NUMBER OF OCCUPANT	CFM/PERSON PER IMC TABLE 403.3.1.1	CFM/SF PER TABLE 403.3.1.1	OUTSIDE AIR PER 403.3.1.1	EXHAUST AIR PER 403.3.1.1	PROVIDED OUTSIDE AIR
122 DISPATCH STATIONS	1360	OFFICE SPACES (UNDER OFFICES)	5	7	5	0.06	116		
120 BRIEFING	275	OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	22		
123 SUPERVISOR	115	OFFICE SPACES (UNDER OFFICES)	5	1	5	0.06	12		
117 WATER	50	-	-	-	-	-	-		
118 DOGS	55	OFFICE SPACES (UNDER OFFICES)	5	0	5	0.06	5		
119 COATS	40	STORAGE ROOMS (UNDER RETAIL STORES)	-	-	-	0.12	5		
TOTAL	1895			9			158	0	380

1 OUTSIDE AIR CALCULATIONS
SCALE: N.T.S.

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Covington EOC 911 Center
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
Covington, GA 30014

Owner/Agent:
Jericho Design Group
208 Pirkle Ferry Road
Suite C
Cumming, GA 30040
kmangum@jericho-design.com

Designer/Contractor:
Krunal Patel
Total Engineers
169 New Street
Macon, GA 31201
(478) 741-4632
krunalpatel@totalengineers.com

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

2 RTU-1 & RTU-3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.80 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 59 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.80 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 RTU-4 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.80 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 HP-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 16 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 24 kBtu/h,
Proposed Efficiency = 17.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None

2 HP-2 & HP-3 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 32 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 36 kBtu/h,
Proposed Efficiency = 15.20 SEER, Required Efficiency: 14.00 SEER
Fan System: None

Project Title: Covington EOC 911 Center Report date: 06/16/25

Quantity System Type & Description

2 HPU-1 & HPU-3 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 24 kBtu/h,
Proposed Efficiency = 8.70 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 24 kBtu/h,
Proposed Efficiency = 23.10 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 HPU-2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 23.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None

2 WH1 & WH2:
Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
Proposed Efficiency: 0.62 EF, Required Efficiency: 0.62 EF

1 WH3:
Electric Storage Water Heater, Capacity: 36 gallons w/ Circulation Pump
Proposed Efficiency: 1.05 SL, %/h (if > 12 kW), Required Efficiency: 1.05 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Krunal Patel - Mechanical Engineer	Krunal Patel	06-16-2025
Name - Title	Signature	Date

Project Title: Covington EOC 911 Center Report date: 06/16/25

2 MECHANICAL COMPLIANCE CERTIFICATE
SCALE: N.T.S.

BRAVO BLDG SET 03-23-2026

208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 24-085
www.totalengineers.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

COVINGTON EOC 911 CENTER

Owner

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
1	06/18/2025	B PERMIT COMMENTS

Drawn By	Checked By
MGT/JWK	KMP
Date	**Job No.**
Issue Date	24029

Sheet Title
MECHANICAL SPECIFICATIONS

Sheet No.
M-0.1

NOT RELEASED FOR CONSTRUCTION

1/29/2025 9:39:10 AM

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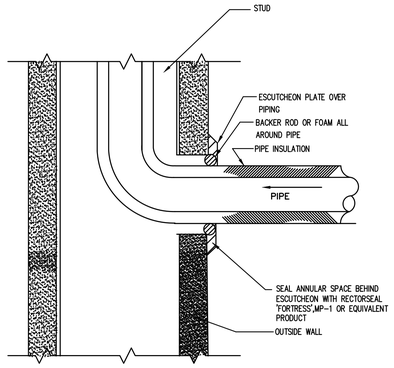
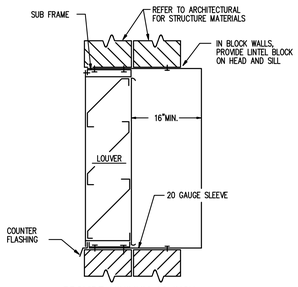
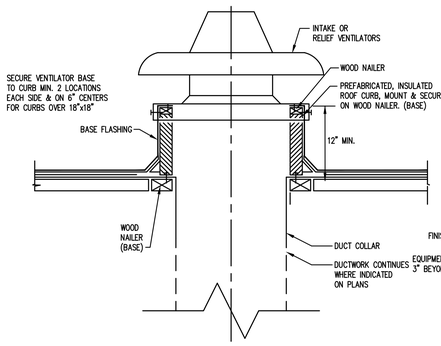


1 REFRIGERANT PIPE SLEEVE THROUGH WALL DETAIL
SCALE: N.T.S.

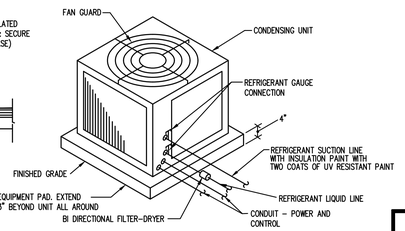


PROVIDE MINIMUM 16 INCH PLENUM BEHIND LOUVER

2 WALL MOUNTED LOUVER WITH PLENUM
SCALE: N.T.S.



3 ROOF INTAKE VENTILATOR DETAIL
SCALE: N.T.S.



NOTE: 1) THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER
2) PROVIDE 4"X4"WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.

4 AIRCOOLED CONDENSING UNIT SLAB MOUNTED
SCALE: N.T.S.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
FD, SCD, SD	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
720 E1A	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 (S1) 8"ø 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
HP	HEAT PUMP UNIT
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
RTU	PACKAGED ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN FOR SHOP VENTILATION
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
UH	UNIT HEATER
A	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MVD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)

LOUVER SCHEDULE

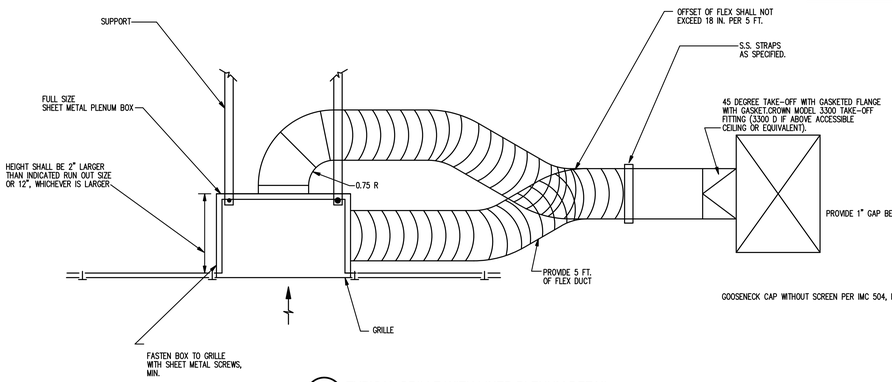
MARK	W X H (INCHES)	EXHAUST CFM	FREE AREA (SQ. FT.)	PRESS. DROP (IN. W.G.)	(COLOR BY ARCHITECT)	BASIS OF DESIGN	NOTES
L-1	36"X18"	495	1.81	0.06	ENAMEL	GREENHECK ESD 403	1:2:3:4

1. COORDINATE WITH ARCHITECTURAL PLANS FOR LOUVER ELEVATION. PAINT LOUVER TO MATCH EXTERIOR WALL.
2. STATIONARY EXTRUDED ALUMINUM DRAINABLE BLADE LOUVER. PROVIDE WITH BIRDSCREEN AND FACTORY BAKED ENAMEL FINISH.
3. PROVIDE FULL SIZE 24-INCHES DEEP SHEET METAL PLENUM BEHIND PLENUM.
4. TOP OF LOUVER AT BOTTOM OF STRUCTURE.

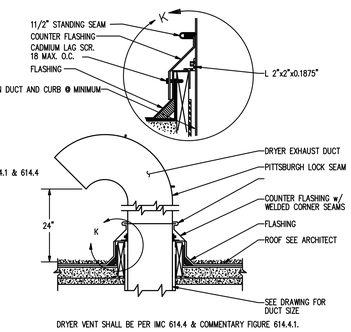
GRAVITY VENTILATOR SCHEDULE

UNIT MARK	SERVICE	SUPPLY CFM	MIN THROAT AREA (SF)	THROAT	GREENHECK MODEL#	NOTES
GV-1	EXHAUST	225	0.57	10"ø	GRSR 10	1

1. SPUN ALUMINUM GRAVITY VENTILATOR.



5 TYPICAL GRILLE WITH LINED PLENUM DETAIL
SCALE: N.T.S.



DRYER VENT SHALL BE PER IMC 614.4 & COMMENTARY FIGURE 614.4.1.

6 DRYER VENT DETAIL
SCALE: N.T.S.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	AIRFLOW	SUPPLY AIR CFM	MIN. OUTSIDE AIR CFM	EXT. SP. IN. W.G.	NOMINAL TONS	EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F°	EVAP. COIL ENTERING AIR DESIGN CONDITIONS WB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS WB F°	SYSTEM COOLING MAX. REQUIREMENTS (MBH) TOTAL	SYSTEM COOLING MAX. REQUIREMENTS (MBH) SENSIBLE	OUTSIDE AIR TEMP. CONDITIONS DB F°	GAS HEAT MBH STAGE 1 IN/OUT	GAS HEAT MBH STAGE 2 IN/OUT	HEATING COIL @ OUTSIDE .25" ENT. TEMP @ STG 1	HEATING COIL @ OUTSIDE .25" LEAV. TEMP @ STG 1	POWER VAC/PH	BASIS OF DESIGN: CARRIER	WEIGHT LBS	NOTES
RTU-1	VERTICAL	1400	250	0.60	4.0	78.2	65.3	55.0	54.0	48.0	36.0	95	50/40	67/54	65.5	90.0	208/3	48GCDN05M2M5-8B0A0	900	1:2:3:4:5:6:7:8:9:10
RTU-2	VERTICAL	1750	315	0.60	5.0	78.2	65.3	55.0	54.0	60.0	44.0	95	50/40	67/54	65.0	85.0	208/3	48GCDN06M2M5-8B0A0	900	1:2:3:4:5:6:7:8:9:10
RTU-3	VERTICAL	1400	250	0.60	4.0	78.2	65.3	55.0	54.0	48.0	36.0	95	50/40	67/54	65.5	90.0	208/3	48GCDN05M2M5-8B0A0	900	1:2:3:4:5:6:7:8:9:10
RTU-4	VERTICAL	1060	190	0.60	3.0	78.3	65.3	55.0	54.0	36.0	26.0	95	50/40	67/54	65.0	98.0	208/3	48GCDN04M2M5-8B0A0	900	1:2:3:4:5:6:7:8:9:10

1. PROVIDE FILTERS, ROOF CURB, CONDENSATE TRAP AND PIPING, FLEXIBLE CONNECTIONS, THRU THE BOTTOM CONNECTIONS, PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO ROOF DRAIN.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. ROOF TOP UNITS SHALL HAVE MEDIUM STATIC MOTOR.
4. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK IT WITH BUILDING FIRE ALARM SYSTEM. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.
5. PROVIDE BUILT-IN HUMIDI-MIZER ADAPTIVE DEHUMIDIFICATION SYSTEM.
6. PROVIDE FLUE DISCHARGE DEFLECTOR THAT DEFLECTS FLUE UPWARD. PROVIDE FLUE DISCHARGE HEAT SHIELD.
7. PROVIDE TEMPERATURE ECONOMIZER W/ BAROMETRIC RELIEF.
8. 2-STAGE COOLING WITH HUMIDI-MIZER. PROVIDE 2-SPEED INDOOR FAN CONTROLLED. PROVIDE DIRECT DRIVE ECO BLUE EVAPORATOR FAN MOTOR.
9. UNDER HEATING MODE SUPPLY CFM SHALL BE SET TO PROVIDE 100% OF AIR AT BOTH STAGES. UNDER COOLING MODE STAGE FAN TO MATCH COOLING STAGE.
10. UNIT SHALL BE TWO STAGE HEATING UNIT. UNIT SHALL RUN ON SINGLE STAGE HEATING PRIMARY.

HEAT PUMP AIR HANDLING UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP. IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F	EVAP. COIL ENTERING AIR DESIGN CONDITIONS WB F	EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F	EVAP. COIL LEAVING AIR DESIGN CONDITIONS WB F	SYSTEM COOLING MAX. REQUIREMENTS (MBH) TOTAL	SYSTEM COOLING MAX. REQUIREMENTS (MBH) SENSIBLE	SUPPL. HEAT KW	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
AH-1	700	115	0.60	1/2	78.0	65.0	55.0	54.0	24.0	17.0	6.0	250	208/1	FT5ANX824L00	1:2:3:4:5:6:7:8
AH-2	1050	190	0.60	1/2	78.3	65.3	55.0	54.0	27.0	36.0	6.8	250	208/3	FT5ANXC36L00	1:2:3:4:5:6:7:8
AH-3	1050	190	0.60	1/2	78.3	65.3	55.0	54.0	27.0	36.0	6.8	250	208/3	FT5ANXC36L00	1:2:3:4:5:6:7:8:9

1. UNIT AT 208/1ø AUXILIARY HEATER AT 208/1ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO HUB DRAIN.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
9. UNIT SHALL BE CONTROLLED BY A MANUFACTURER'S THERMOSTAT WITH FOUR AVERAGING SENSORES.

AIR COOLED HEATPUMP UNIT SCHEDULE

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER	HSPF	NOM. CAP. (TONS)	REFRIG	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-1	AH-1	15.8	17.5	8.1	2.0	R410A	96	23	350	208/1	27TPA824A003	1:2:3:4
HP-2	AH-2	32.2	15.2	8.1	3.0	R410A	96	23	350	208/1	27TPA836A003	1:2:3:4
HP-3	AH-3	32.2	15.2	8.1	3.0	R410A	96	23	350	208/1	27TPA836A003	1:2:3:4

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
4. 2-STAGE COMPRESSOR UNIT.

MINI SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	POWER VAC/PH	SEER2	HSPF2	CARRIER MODEL # OUTDOOR	CARRIER MODEL # INDOOR	SERVES	NOTES
HPU-1	ACU-1	24.0	24.0	810	208/1	23.1	8.7	37MARA024AA3	45MAHA024XA3	121 SERVERS	1:2:3:4:5:6:7:8:9:10
HPU-2	ACU-2	18.0	18.0	635	208/1	23.5	8.0	37MARA018AA3	45MAHA018XA3	135 ELEC	1:2:3:4:5:6:7:8:9:10
HPU-3	ACU-3	24.0	24.0	810	208/1	23.1	8.7	37MARA024AA3	45MAHA024XA3	114 ELEC.	1:2:3:4:5:6:7:8:9:10

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.
3. CONDENSATE DRAIN SHALL BE PVC.
4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
5. PROVIDE DISCONNECT AND ELECTRICAL CONNITECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSACN0501AAA.
7. PROVIDE RECTOR SEAL SS610E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.
9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN WHERE REQUIRED. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR AMP/WATTS /HP	MAX SONES	POWER/ PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	390	0.40	DIRECT	191.0 W	2.0	115/1	147 & 147 MEN/WOMEN & 152 JAN	GREENHECK CSP-A510	1:2:3:4:6
EF-2	70	0.25	DIRECT	80.0 W	0.7	115/1	124 TOILET	GREENHECK SP-B90	1:2:3:7
EF-3	70	0.25	DIRECT	80.0 W	0.7	115/1	125 TOILET	GREENHECK SP-B90	1:2:3:7
EF-4	70	0.25	DIRECT	80.0 W	0.7	115/1	126 BEAK ROOM	GREENHECK SP-B90	1:2:3:5
EF-5	70	0.25	DIRECT	80.0 W	0.7	115/1	159 COPY/STORAGE	GREENHECK SP-B90	1:2:3:5
EF-6	70	0.25	DIRECT	80.0 W	0.7	115/1	129 LOCKER	GREENHECK SP-B90	1:2:3:5

1. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
2. PROVIDE ROUND DUCT CONNECTION.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. FAN SHALL BE CONTROLLED BY A 24/7 365 DAY TIME CLOCK LOCATED IN WATER ROOM. ELECTRICAL SHALL PROVIDE TIME CLOCK.
5. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.
6. IN-LINE CABINET FAN. PROVIDE FACTORY SUPPLIED DISCONNECT, BACK DRAFT DAMPER AND MOTOR WITH THERMAL OVERLOAD.
7. INTERLOCK FAN WITH LIGHTS. PROVIDE 10-MINUTE TIME DELAY.

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS:	NOTES
S1	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
S2	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	SURFACE	TITUS TMS	1:2:3
S3	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	SURFACE	TITUS TMS	1:2:3
S4	SUPPLY	SEE PLANS	48"-4 SLOT	ALUMINUM	LINEAR SLOT	1-WAY	SURFACE	TITUS ML-38	3:4:5
S5	SUPPLY	SEE PLANS	48"-4 SLOT	ALUMINUM	LINEAR SLOT	1-WAY	LAY-IN	TITUS ML-38	3:4:5
S6	SUPPLY	SEE PLANS	NECK + 1-3/4"	STEEL	DOUBLE DEFLECTION REGISTER	2-WAY	SURFACE/DUCT	TITUS 300RS	3:10
S7	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
R1	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:6
R2	RETURN	SEE PLANS	NECK+1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	TITUS 350R	7:8:10
R3	RETURN	SEE PLANS	24"X12"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:6
R4	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:6
E1	EXHAUST	SEE PLANS	12"X12"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:6
E2	EXHAUST	SEE PLANS	8"X8"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:6
E3	EXHAUST	SEE PLANS	12"X12"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:6

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. 4'-0" LENGTH AS STANDARD. PROVIDE FACTORY INSULATED PLENUM ON TOP OF DIFFUSER FOR DUCT CONNECTION. CONSULT ARCHITECT FOR DIFFUSER FINISH.
5. PROVIDE CONCEALED FASTENING, FLUSH MOUNT FRAME, AND BORDER.
6. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR CONNECTION TO DUCT.
7. PROVIDE BLADES IN HORIZONTAL DIRECTION. BLADES ARE AT 0-DEGREES BLADE DEFLECTION.
8. CONSULT ARCHITECT WITH GRILLE FINISH.
10. PROVIDE OPPOSED BLADE DAMPER(OBD) THAT IS ACCESSIBLE FROM THE FACE OF DIFFUSER. GRILLE SHALL BE SAME COLOR AS DUCT IT IS MOUNTED ON. REFER TO ARCHITECT FOR DUCT FINISH.

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-6000	GPS-IMOD	1:2:3:4:5:6:7

1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED FOR RTU-2.
2. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
3. USE THIS SYSTEM FOR PACKAGED UNIT RTU-2 ONLY.
4. MODULAR NEEDLEPOINT BIPOLAR IONIZATION AIR IONIZATION SYSTEM.
5. THE UNIT SHALL MOUNT AT THE INLET OF THE COIL AND SHALL BE SIZED TO FIT THE WIDTH OF THE COIL.
6. UNIT SHALL BE EQUIPPED WITH VOLTAGE SELECTOR SWITCH, ILLUMINATED ON/OFF SWITCH, OPERATION STATUS LED, AND SIX HV OUTPUT PORTS.
7. INTERLOCK IONIZATION SYSTEM TO RUN WITH EVAPORATOR FAN.

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Date: Issue Date
Job No.: 24029

Sheet Title: MECHANICAL SCHEDULES

Sheet No.: M-0.2

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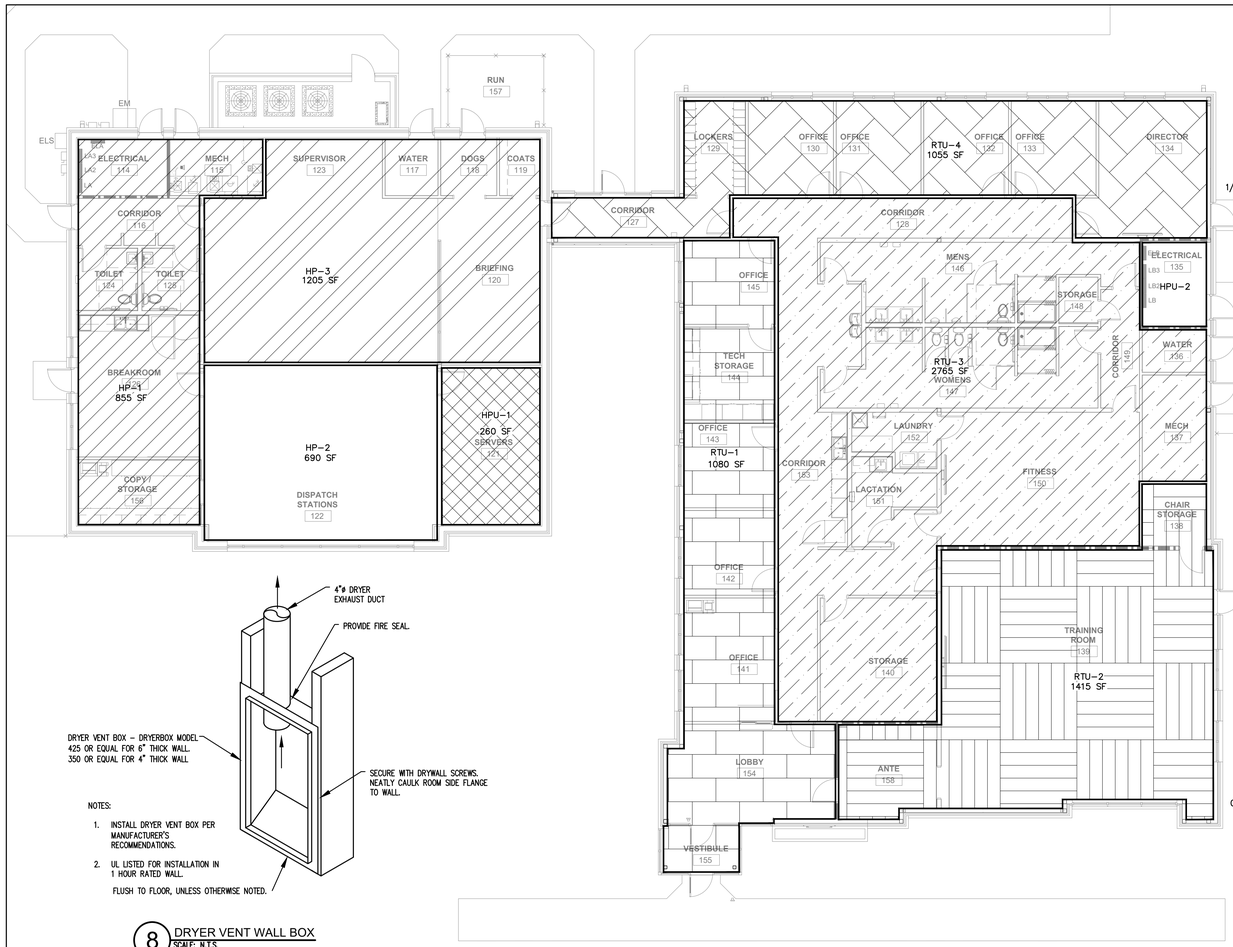
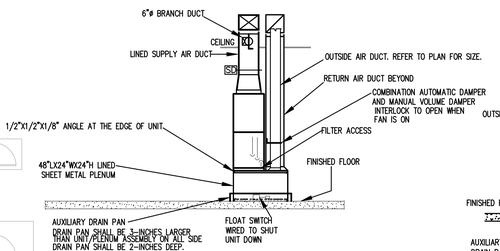


1 MECHANICAL ZONING PLAN
SCALE: N.T.S

8 DRYER VENT WALL BOX
SCALE: N.T.S.



2 AH-1 FRONT VIEW - DETAIL
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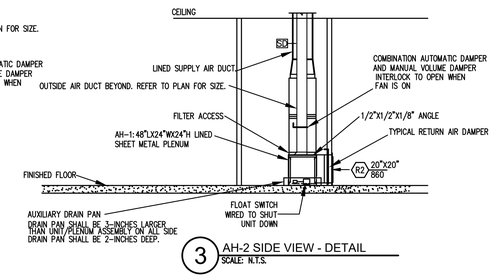

3 AH-2 SIDE VIEW - DETAIL
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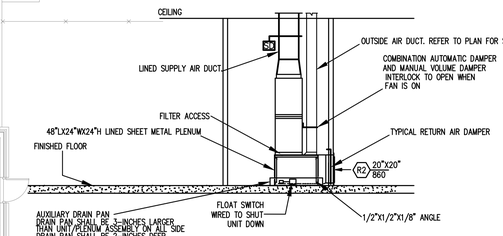

4 AH-3 - FRONT VIEW DETAIL
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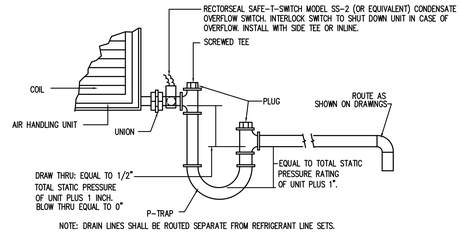

5 CONDENSATE DRAIN DETAIL
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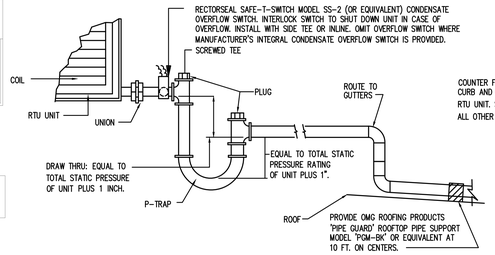
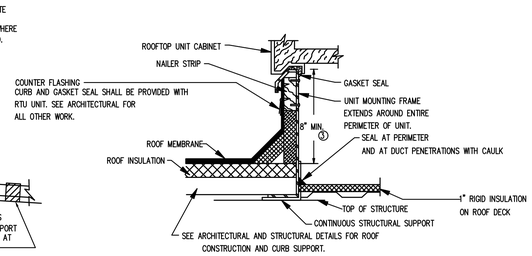
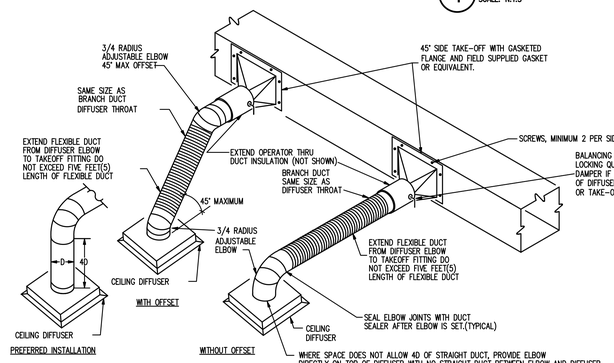


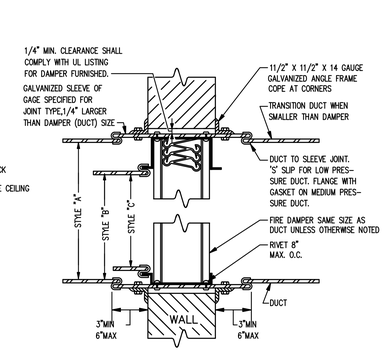
6 CONDENSATE DRAIN FOR ROOF TOP
SCALE: N.T.S.



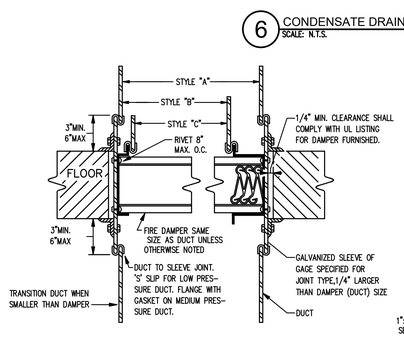
7 ROOFTOP CURB INSTALLATION DETAIL
SCALE: N.T.S.



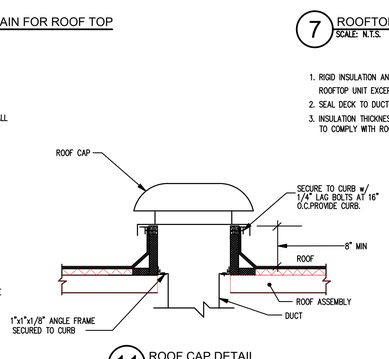
9 DIFFUSER RUN OUT DETAIL
SCALE: N.T.S.



VERTICAL FIRE DAMPER

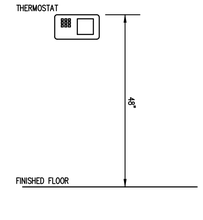


HORIZONTAL FIRE DAMPER

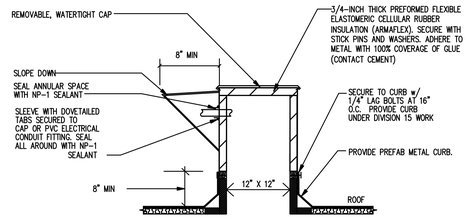


11 ROOF CAP DETAIL
SCALE: N.T.S.

1. RIGID INSULATION AND METAL DECK SHALL EXTEND OVER ENTIRE AREA BENEATH ROOFTOP UNIT EXCEPT AT SUPPLY AND RETURN DUCT PENETRATIONS
2. SEAL DECK TO DUCTWORK ROUTED THROUGH DECKING.
3. INSULATION THICKNESS MAY VARY. CURB HEIGHT SHALL PROVIDED UNIT HEIGHT ABOVE ROOF TO COMPLY WITH ROOFING CLEARANCE REQUIREMENTS.



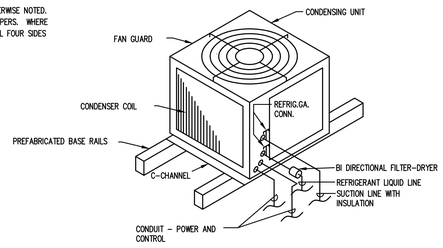
12 T-STAT - DETAIL
SCALE: N.T.S.



13 ROOF CURB CAP FOR PIPING DETAIL
SCALE: N.T.S.

ALL FIRE DAMPERS ON THE PROJECT SHALL BE STYLE 'A' TYPE FIRE DAMPERS UNLESS OTHERWISE NOTED. DAMPERS LOCATED IN MEDIUM OR HIGH PRESSURE DUCTWORK SHALL BE STYLE 'C' FIRE DAMPERS. WHERE DAMPERS ARE INSTALLED IN DRYWALL PARTITION, STUD FRAMING SHALL BE PROVDED ON ALL FOUR SIDES ON DAMPER.

10 FIRE DAMPER DETAIL
SCALE: N.T.S.



NOTE: REFER TO DETAIL 3/M-002 ROOF CURB FOR PIPING DETAIL FOR ROOF PENETRATION

14 CONDENSING UNIT MOUNTED ON LOW SLOPE ROOF DETAIL
SCALE: N.T.S.

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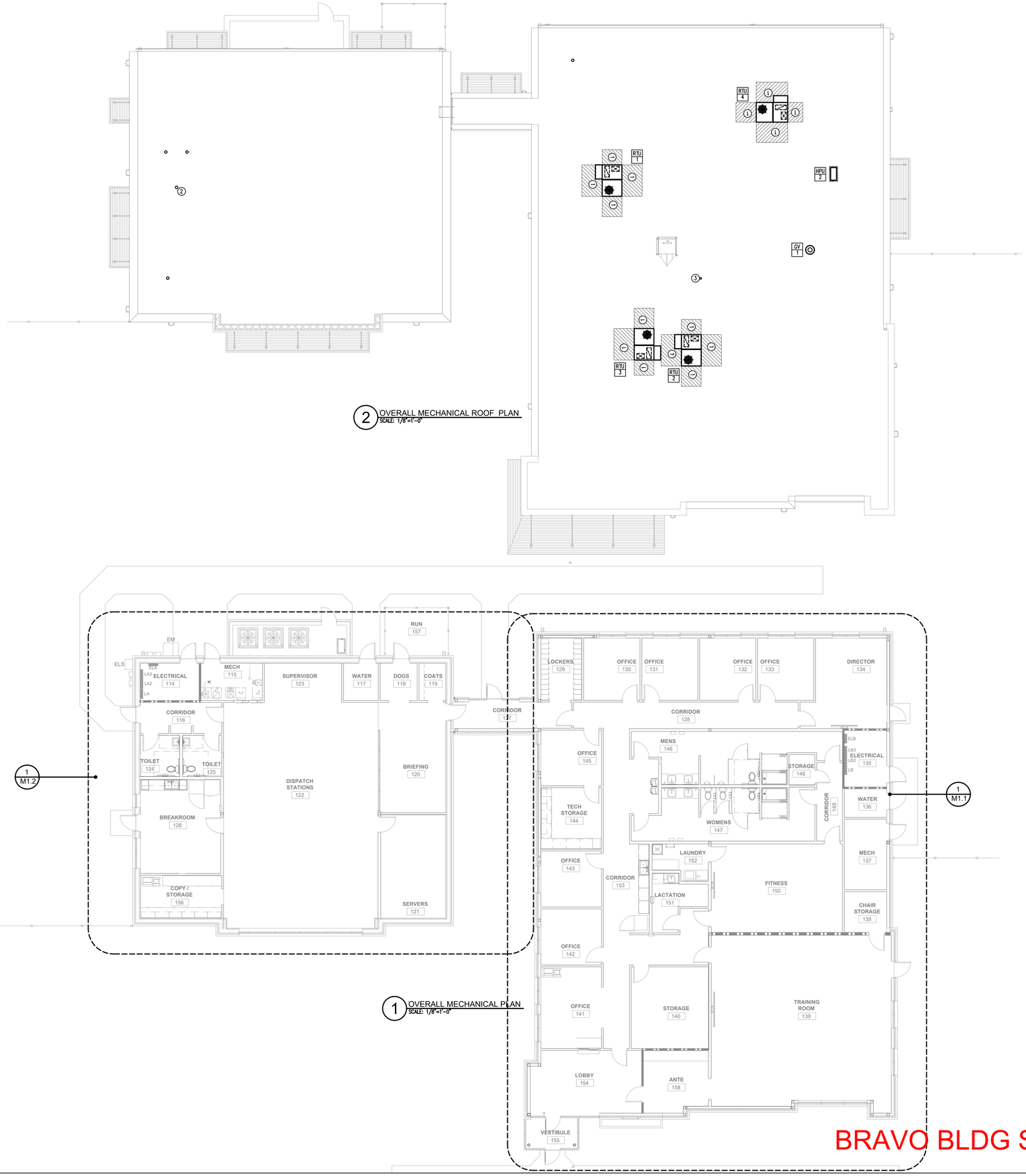
KEY NOTES(THIS SHEET ONLY):

1. UNIT ACCESS SPACE.
2. TYPICAL ROOF CAP.
3. DRYER VENT CAP.



2 OVERALL MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"

1 OVERALL MECHANICAL PLAN
SCALE: 1/8"=1'-0"

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

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169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 24-085
www.totalengineers.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER BRUNAL M PATEL

COVINGTON EOC 911 CENTER

Owner
10796 HWY 36
COVINGTON, GA 30014

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Sheet Title
OVERALL MECHANICAL PLANS

Sheet No.
M-1.0

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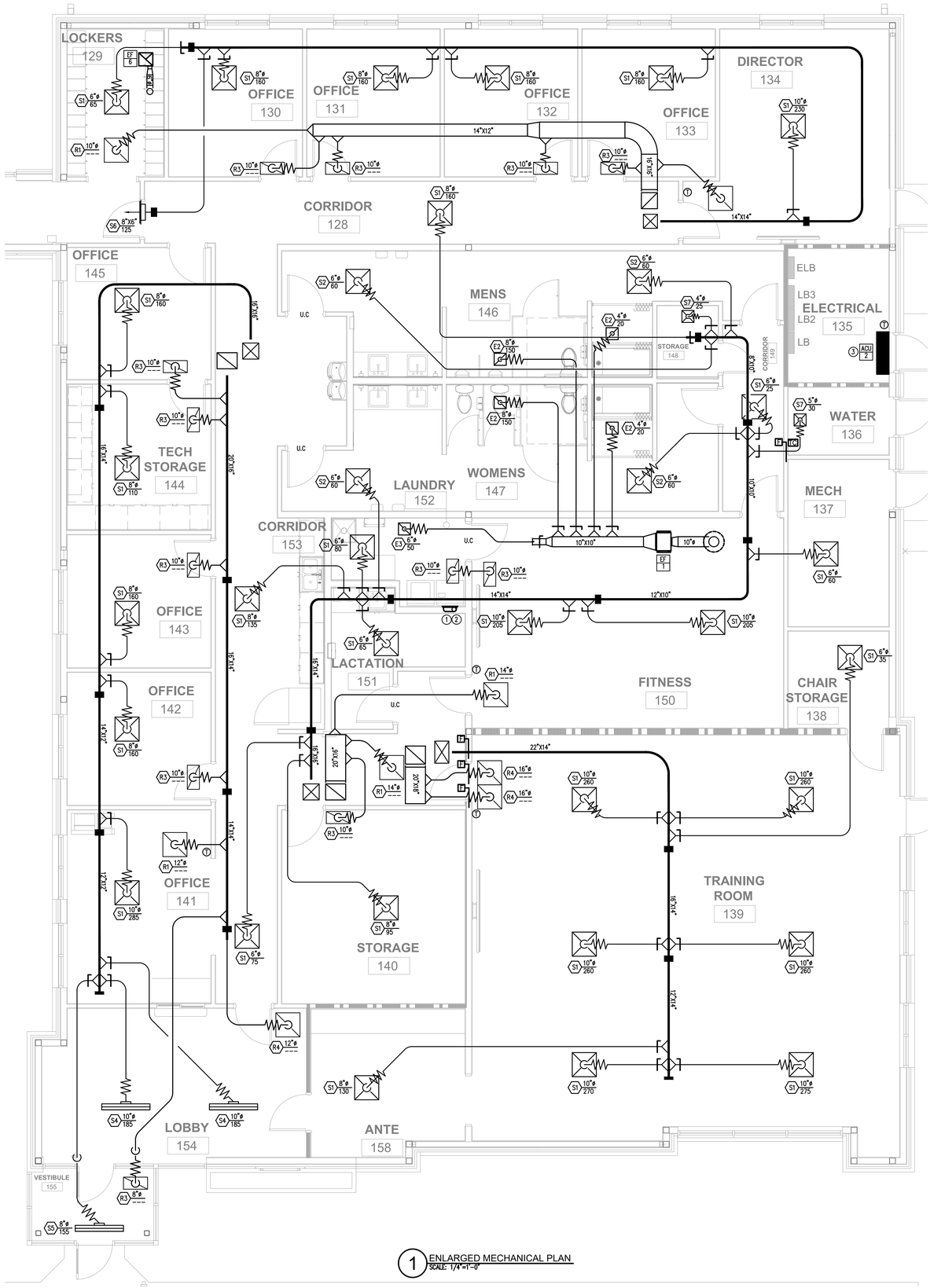
KEY NOTES(THIS SHEET ONLY):

1. TYPICAL DRYER BOX MODEL 480. INSTALL PER MANUFACTURER'S INSTRUCTIONS. DRYER BOX SHALL BE UL LISTED FOR INSTALLATION IN 1-HOUR RATED WALL. CONTRACTOR SHALL COORDINATE EXACT DRYER LOCATION IN FIELD BEFORE LOCATING DRYER BOX.
2. TYPICAL 4"ø DRYER EXHAUST DUCT UP TO GOOSENECK CAP WITH DAMPER ON ROOF. PROVIDE FIRE STOPPING AT BOX OUTLET AND PENETRATION AT CEILING. DUCT SHALL HAVE SMOOTH INTERIOR FINISH AND SHALL BE CONSTRUCTED OF MINIMUM 26 GAGE STEEL. NO SCREWS ALLOWED FOR DRYER EXHAUST DUCT. CONTRACTOR SHALL VERIFY WALL SHALL BE 6" WIDE TO RUN 4" EXHAUST DUCT.
3. ROUTE CONDENSATE TO FLOOR SINK AT WATER ROOM.



1 ENLARGED MECHANICAL PLAN
SCALE: 1/4"=1'-0"

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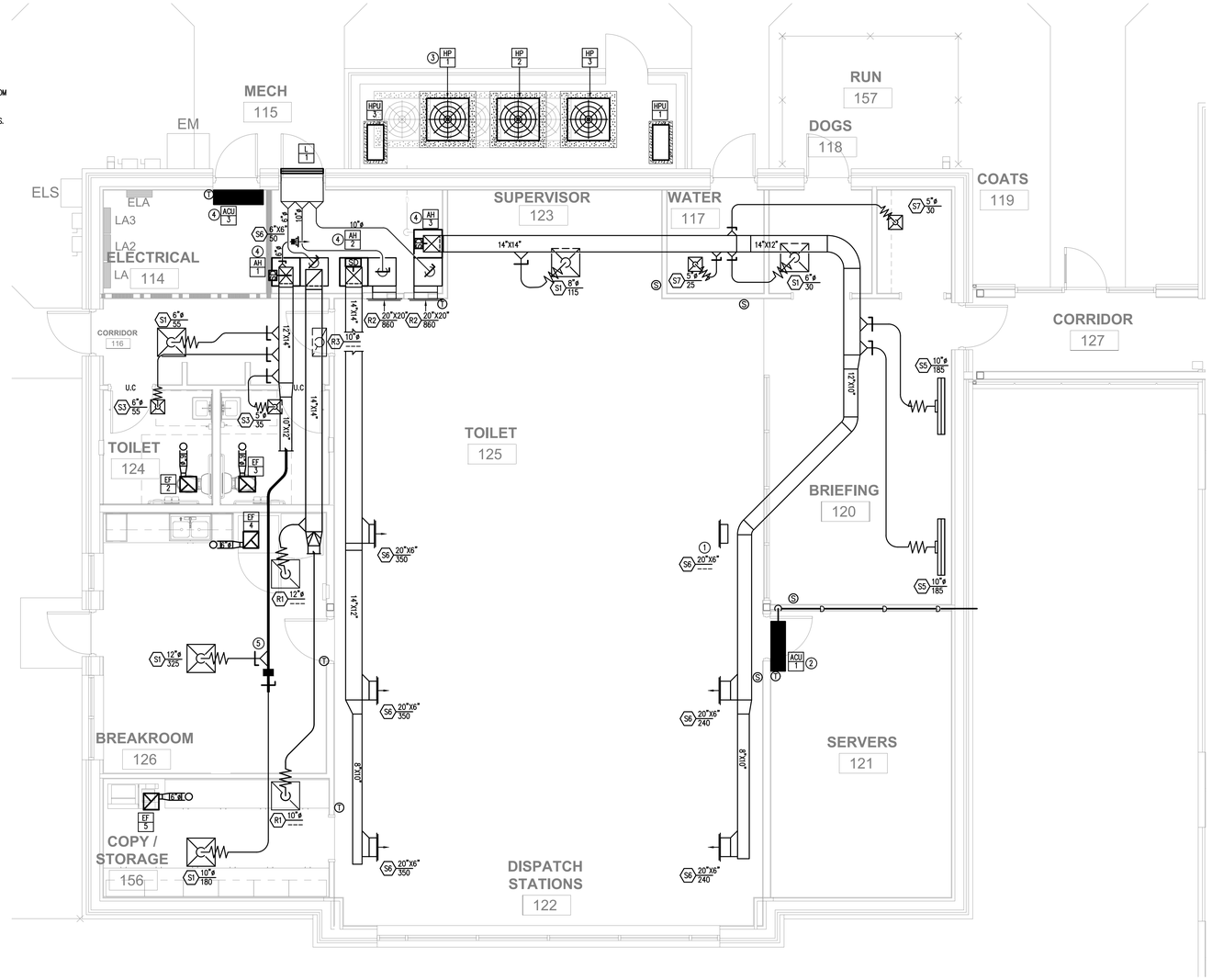
KEY NOTES(THIS SHEET ONLY):

1. PROVIDE BALNK-OFF PLATE BEHIND DIFFUSER.
2. ROUTE CONDENSATE TO OUTSIDE. PROVIDE 45-DEGREE ELBOW AT THE END OF PIPE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE. CONDENSATE PIPE SHALL BE 3/4" CPVC AT MINIMUM.
3. ROUTE REFRIGERANT TO RESPECTIVE UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.
4. ROUTE CONDENSATE TO FLOOR SINK AT MECHANICAL ROOM.
5. PROVIDE 12"X10" TO 12"ø RECTANGULAR TAP.

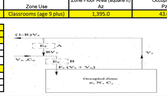


1 ENLARGED MECHANICAL PLAN
SCALE: 1/4"=1'-0"

Global Plasma Solutions, Inc.
3101 Yorkmont Rd
Suite 400
Charlotte, NC 28208
www.globalplasmasolutions.com
VERSION 2.1 running ASHRAE 62.1-2016

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
RTU-2	Office Building	Classrooms (age 9 plus)	1,395.0	43.0	10.0	0.12	430	167	0.8	747 OA required per VRP

Zone Height (feet)	13.0
Desired Outside Air (cfm) IAQP CO	215
Supply Air (Vs) (CFM)	2,000
Return Air (Vr)	1785
Recirc. Flow Factor (R)	0.89
Ventilation Effectiveness (Ez)	0.8
Level of Physical Activity	Standing (desk work)
Filter Location	B
PVAV Flow Type	Constant
Outdoor Air Flow Type	Constant



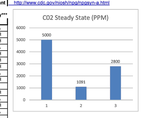
Air Changes Per Hour	5.5
Outside Air Per VRP	747 CFM
Outside Air Per IAQ	215 CFM
Outside Air Savings	532 CFM
OA Summer Drybulb	95.0
OA Summer Wetbulb	78.0
Cost Leaving Air Drybulb (F	55.0
Cost Leaving Air Wetbulb (F	55.0
OA MBH Saved Summer*	38.8
OA Tons Saved Summer*	3.2

VRP OA CFM per person	17.4
IAQ OA CFM per person	5.0
Winter Heating Savings	
OA Winter Design DB (F)	10
Supply Air DB Setpoint (F)	68
MBH Saved Winter	33.5
KW Saved Winter	9.8

*OA = Outside Air
**OSHA, NIOSH & WHO most conservative values used

http://www.cdc.gov/niosh/npg/npgsyn-a.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value Based on OSHA or NIOSH (PPM)	Using the VRP* (Prescribed OA) Plasma Off	Steady State (lb/ft3) Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate lb/person/min	Filtration Effectiveness	Cognizant Authority**
Acetaldehyde	100.0	2.6571E-08	1.1852E-08	Yes	1.9498E-08	50%	OSHA
Acetone	250.0	1.4311E-08	1.0446E-08	Yes	1.9622E-07	50%	NIOSH
Ammonia	25.00	3.3188E-07	2.4494E-07	Yes	4.6056E-06	50%	NIOSH
Benzene	1.0	1.6372E-08	1.1771E-08	Yes	2.2052E-07	50%	OSHA
2- Butanone (MEK)	200.0	9.6060E-07	7.0935E-07	Yes	1.3350E-05	50%	NIOSH
Carbon Dioxide**	5000	4.7642E-05	5.4278E-05	Yes	3.7290E-05	0%	NIOSH
Chloroform	2.5	2.9784E-08	2.1948E-08	Yes	4.1292E-07	50%	NIOSH
Dioxane	100.0	0.0000E+00	0.0000E+00	Yes	0.0000E+00	50%	OSHA
Hydrogen Sulfide	10.0	0.0000E+00	0.0000E+00	Yes	0.0000E+00	50%	NIOSH
Methane	1000.0	0.0000E+00	0.0000E+00	Yes	0.0000E+00	0%	NIOSH
Methanol	200.0	1.2134E-08	8.2145E-08	Yes	1.6858E-07	0%	NIOSH
Methylene Chloride	25.0	8.7262E-07	5.4409E-07	Yes	7.2131E-05	50%	OSHA
Propane	1000.0	1.1242E-09	1.1242E-09	Yes	0.0000E+00	0%	NIOSH
Tetrachloroethane	5.0	0.0000E+00	0.0000E+00	Yes	0.0000E+00	50%	OSHA
Tetrachloroethylene	100.0	9.9087E-07	7.3139E-07	Yes	1.3764E-05	50%	OSHA
Toluene	100.0	3.7281E-09	1.9628E-09	Yes	3.4441E-08	50%	NIOSH
1,1,1 - Trichloroethane	350.0	4.1683E-05	3.0749E-05	Yes	5.7868E-04	50%	NIOSH
Xylene	100.0	8.2453E-10	8.6370E-11	Yes	0.0000E+00	50%	OSHA



Building materials and furnishings assumed to have no VOCs and off-gassing is complete.
All yellow shaded boxes require user input or review.

Is IAQ acceptable at reduced outside air levels? Yes

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**Carbon dioxide has been provided for reference only for gathering demand control ventilation (DCV) setpoints. The National Research Council was commissioned by the US Navy to prove CO2 is not a contaminant of concern when using air purification to control the other contaminants of concern, as found on submarines.

The University of Denmark conducted a study to confirm CO2 levels at 5,000 PPM had no impact on cognitive function. Zhang X, Wargocki P, Lian Z, Human Responses to Carbon Dioxide, a Follow-up Study at Recommended Exposure Limits in

Date	6/18/2025
Job Name	COVINGTON EOC 911
Representative	MINGLEDORFF'S INC
Engineer	TOTAL ENGINEERS
Contractor	-

IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exception found in Section 403.2
Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

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JERICHO design group
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(478)741-4632 - T.E. project # 24-085
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GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

COVINGTON EOC 911 CENTER

Owner

10796 HWY 36
COVINGTON, GA 30014

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Sheet Title: ENLARGED MECHANICAL PLAN

Sheet No.: M-1.2

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ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO COVINGTON-NEWTON COUNTY 911 CENTER, COVINGTON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.
12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER, ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/277 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TYPE "TR").
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL. THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE 1 ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE 1 ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR, PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GENERAL ELECTRIC (GE), SEIMENS, AND EATON. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: FIRE ALARM SYSTEM (FULL VOICE EVAC SYSTEM COMPLETE WITH MICROPHONE PER CURRENT NFPA CODES)

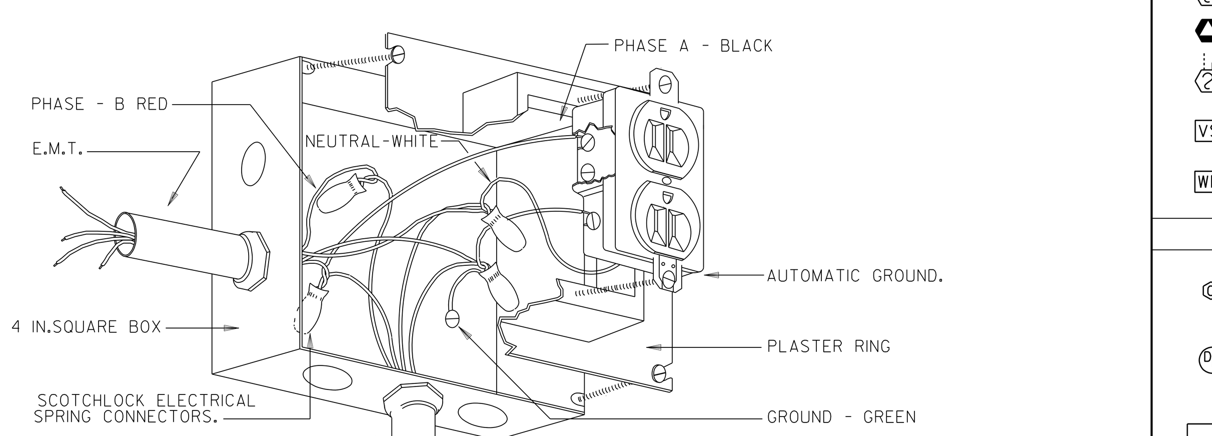
1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, SIMPLEX, OR SILENT KNIGHT.
2. PROVIDE A COMPLETE OPERABLE VOICE EVAC FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUCIATE A BUILDING ALARM FOR 90 MINUTES.
4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
5. NEW SPEAKER/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA.
6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
7. NEW PULL STATIONS SHALL BE NON-GLASS-BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.
8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.
9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.
10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATE CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCKABLE, SEE THROUGH, HINGED FRONT COVER.
11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATOR FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.
12. PROVIDE REMOTE ANNUNCIATOR PANEL AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND COMPLETE CONTROL PUSH BUTTONS INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.
13. PROVIDE PHOTO ELECTRIC TYPE DUCT MOUNTED SMOKE DETECTORS WHERE SHOWN IN HVAC SUPPLY DUCT. UNIT SHALL HAVE SAMPLING TUBES THAT EXTEND THE WIDTH OF THE DUCT. PROVIDE REMOTE INDICATOR ACCESSIBLE IN NEAREST MECH/ELEC ROOM FOR EACH DETECTOR, WHICH WILL INDICATE WHICH DETECTOR IS ACTIVATED.
14. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION ON SHEET E-5.4 FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 4 FT. RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 5310 LUMENS, 41 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAKS 2X4 ALO6 SWW7", COLUMBIA "CLT" SER., METALUX "ACHIEVA" SER., H.E. WILLIAMS "FT" SER.
B	2 FT. X 2 FT. RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING; FIELD SELECTABLE LUMEN AND COLOR TEMP. LAMPS: LED, 4371 LUMENS, 35 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAKS 2X2 ALO3 SWW7", COLUMBIA "CLT" SER., METALUX "ACHIEVA" SER., H.E. WILLIAMS "FT" SER.
C	COMMERCIAL GRADE DOWNLIGHT, WHITE PAINTED FLANGE, 6 IN. ROUND APERTURE, SEMI-SPECULAR REFLECTOR FINISH, MEDIUM WIDE DISTRIBUTION; NEW CONSTRUCTION HOUSING; 0-10 DIMMING TO 1%; FIELD SELECTABLE LUMENS AND COLOR TEMP. LAMPS: LED, 2533 LUMENS, 25 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "LBR6 NCH AL02 SWW1 AR TRW LSS MWD UGZ1", HALO COMMERCIAL "HC6" SER., PRESCOLITE "LBRP-RD" SER., OR APPROVED EQUAL BY H.E. WILLIAMS
D	RECESSED 2 IN. LINEAR LED SLOT, 20 FT. CONTINUOUS ROW INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM TRIM; 0-10 DIMMING TO 1%. LAMPS: LED, 900 LM / FT., 8 W / FT., 3500 DEGREE K DRIVER: UNV. VOLT	NULITE "RG2 D ST F 09 L 35 UNV D 1 1 WH 20 ", FOCAL POINT "SEEM 2" SER., PINNACLE "EDGE EV2D" SER., FINELITE "HP-2" SER.
E	24 IN. WIDE PENDANT, EXTRUDED ALUMINUM HOUSING, MATTE WHITE DIFFUSER; STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER/ARCHITECT. LAMPS: LED, 1890 LUMENS, 35 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	OCL "PE1 P1DB 24 MW (FINISH) LED2 35K UNV 48 DIM1 FWA", OR OWNER APPROVED EQUAL BY FOCAL POINT, ARANCIA, BYIBA
F	2 IN. LINEAR RECESSED LED, 20 FT. CONTINUOUS ROW INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM TRIM, BI-DIRECT DISTRIBUTION; 0-10 DIMMING TO 1%. COORDINATE FINISHES WITH OWNER/ARCHITECT. LAMPS: LED, 900 LUMENS, 8 W / FT., 3500 DEGREE K DRIVER: UNV. VOLT	NULITE "RP24 B ST F 09 L 35 UNV D 2 2 (FINISH) TX (FINISH) 048 20 ", FOCAL POINT "SEEM 2" SER., PINNACLE "EDGE EV2D" SER., FINELITE "HP-2" SER.
H	24 IN. LONG VANITY FIXTURE; MATTE WHITE DIFFUSER; BRUSHED ALUMINUM FINISH END CAPS, SOLID BACK PLATE MOUNTING; DAMP LOCATION RATED; 0-10 DIMMING STANDARD. COORDINATE FINISH WITH OWNER/ARCHITECT. LAMPS: LED, 2050 LUMENS, 30 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	OCL "H01 S1SA 24 MW (FINISH) LED1 35K UNV DM1", OR OWNER APPROVED EQUAL BY TERON LIGHTING, WAC LIGHTING, ASL LIGHTING
J	4 FT. LENSED LED STRIPLIGHT, WITH FLAT FROSTED DIFFUSE LENS, PENDANT MOUNTED, STANDARD 0-10 DIMMING. SUSPEND FIXTURE SUCH THAT FIXTURE BOTTOM ELEVATION IS 9'-0" A.F.F. LAMPS: LED, 5000 LUMENS, 32 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "CLX L48 5000LM SEF FDL MVOLT GZ10 35K 80CRI" SER., METALUX "SNX" SER., COLUMBIA "MPS" SER., H.E. WILLIAMS "75R" SER.
K	RECESSED 3 IN. SLOT FIXTURE, CONTINUOUS ROW INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM CEILING TRIM, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE LENGTHS AS INDICATED ON THE DRAWINGS. COORDINATE FINISH WITH OWNER/ARCHITECT. LAMPS: LED, 750 LUMENS / FT., 6 WATTS / FT., 3500 DEGREE K DRIVER: UNV. VOLT	LUMENWERX "VIA3R D HLO FH SW 80CRI 750LMF 35K UNV D1 1C" SER., NEO-RAY "DEFINE-3" SER., PINNACLE "EDGE-3" SER.
OA	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER/ARCHITECT. MOUNT FIXTURE SUCH THAT BOTTOM OF FIXTURE IS 14'-0" ABOVE GROUND. LAMPS: LED, 6615 LUMENS, 50 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "ARC2 LED P5 40K MVOLT (FINISH)", SPITZER "PEAK" SER., BEACON LIGHTING "TRP2" SER., GARDCO "101L" SER.
OB	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER/ARCHITECT. MOUNT FIXTURE SUCH THAT BOTTOM OF FIXTURE IS 8'-0" ABOVE GROUND. PROVIDE 4 WATT EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON THE DRAWINGS. LAMPS: LED, 3021 LUMENS, 25 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "ARC1 LED P3 40K MVOLT (FINISH)", SPITZER "PEAK JR" SER., BEACON LIGHTING "TRP1" SER., GARDCO "101L" SER.
OC	NOMINAL 11" ROUND SURFACE MOUNTED PANEL; SLEEK ULTRA LOW PROFILE; DIFFUSING LENS PROVIDING LIGHT UNIFORMITY; WET LISTED FOR COVERED CEILINGS. PROVIDE 10 WATT REMOTE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON THE DRAWINGS. LAMPS: LED, 1300 LUMENS, 15 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	JUNO "JSF 11 13LM SWW5 90 CRI MVOLT ZT WH", HALO "SMD" SER., PRESCOLITE "LBSE" SER., TGS "THINTEK" SER.
	LED INTEGRATED THERMOPLASTIC COMBO EXIT/EMERGENCY, IMPACT RESISTANT HOUSING; TOP, END, OR BACK MOUNTING STANDARD, UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE, FIELD SELECTABLE RED OR GREEN ILLUMINATION. FIELD SELECTABLE CHEVRONS, WHITE / BLACK ENCLOSURE (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 1 WATT BALLAST: UNV. VOLT	LITHONIA "LHQM" SER., SURE-LITES "LPX-C" SER., COMPASS "CC" SER., BEGHELLI "EPC" SER.
	LED 2 HEAD EMERGENCY UNIT, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	COMPASS "CU2" SER., LITHONIA "ELM2L" SER., LIGHT ALARMS "LCA" SER., SURELITES "SEL17" SER., EVENLITE "TCL" SER., BEGHELLI "BBX" SER.

1

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.
2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.
3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED.



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6 IN.) FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.
4. PROVIDE LABEL ON FACE PLATE TO INDICATE PANEL AND CIRCUIT SERVING IT.
5. PROVIDE RED COLOR RECEPTACLE FOR EMERGENCY.

1 / E-1.01 RECEPTACLE CONNECTION DETAIL

NOT TO SCALE

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HA1-1/b

PANEL DESIGNATION:
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
CIRCUIT NUMBER
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HA1-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

ELECTRICAL LEGEND

LIGHTING AND POWER

SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
	CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
A-2,4	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHT FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING AND TYPE.
	LIGHT FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 90 MINUTE BATTERY PACK.
	LIGHTING FIXTURE, WALL BRACKET MOUNTED. (MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.)
	LIGHTING FIXTURE, WALL BRACKET MOUNTED. (MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.) PROVIDE WITH 90 MINUTE BATTERY PACK.
	POLE MOUNTED LIGHT FIXTURE. SEE SCHEDULE FOR TYPE.
IG	DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED. ("IG" INDICATES ISOLATED GROUND)
	DUPLEX CONVENIENCE OUTLET, 8 IN. ABOVE COUNTER TOP OR 42 IN. MOUNTING HEIGHT UNLESS OTHERWISE NOTED.
IG	QUADRUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED. ("IG" INDICATES ISOLATED GROUND)
WP	DUPLEX CONVENIENCE OUTLET, GFI TYPE. 18 IN. MOUNTING HEIGHT. "WP" WHERE SHOWN INDICATES WEATHERPROOF, PROVIDE METAL IN-USE WEATHERPROOF COVERPLATE.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE. MOUNTED 8 INCHES ABOVE COUNTER OR AT 42 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
	JUNCTION BOX, FLUSH WALL MOUNTED. AT 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
	JUNCTION BOX LOCATED ABOVE CEILING.
IG	SPECIAL RECEPTACLE TO SUIT EQUIPMENT BEING FURNISHED. ("IG" INDICATES ISOLATED GROUND)
IG	FLUSH FLOOR BOX WITH DUPLEX CONVENIENCE OUTLET AND COMBINATION TELEPHONE AND DATA OUTLET IN FLUSH FLOOR BOX. PROVIDE WALKER 880 OMNIBOX SERIES TWO GANG CAST IRON OR PLASTIC FLOOR BOX WITH BRASS FLANGE AND COVERPLATE. ("IG" INDICATES ISOLATED GROUND)
$	SINGLE POLE TOGGLE SWITCH, 42 IN. ABOVE FLOOR.
$3 $4	THREE WAY OR FOUR WAY SWITCH AS INDICATED, 42 IN. MOUNTING HEIGHT.
	0-10 VOLT SLIDE TYPE DIMMER 2015 IECC COMPLAINT. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.) 42 IN. ABOVE FLOOR.
	THREE WAY, 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR, 2015 IECC COMPLAINT. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
T	TRANSFORMER, SEE RISER DIAGRAM FOR SIZE AND VOLTAGE.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH.

TELEPHONE/DATA SYSTEMS

SYMBOL	DESCRIPTION
	COMBINATION COMPUTER AND TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. (2 DATA, 1 TEL)
	COMPUTER OUTLET, 18 IN. ABOVE FLOOR UNLESS NOTED OTHERWISE. (2 DATA)
	COMPUTER OUTLET, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED. (2 DATA)
	COMBINATION COMPUTER AND TELEPHONE OUTLET, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED. (2 DATA, 1 TEL)
AP	WIRELESS ACCESS POINT. (2 DATA)
TB	PLYWOOD BACKBOARD, "TB" INDICATES TELEPHONE BOARD.

LIGHTING CONTROL SENSORS

SYMBOL	DESCRIPTION
V	COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH). ("V" INDICATES VACANCY SENSOR, UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS AND BE COMPATIBLE WITH DIMMER)
H	ULTRASONIC OCCUPANCY SENSOR (WATT STOPPER "WT-2250", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
$o	WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DSW-301, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).

FIRE ALARM SYSTEM (VOICE EVAC SYSTEM)

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED.
FAA	FIRE ALARM ANNUNCIATOR, FLUSH MOUNTED.
EVAC	FIRE ALARM VOICE EVAC PANEL, FLUSH MOUNTED.
	STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.
	FIRE ALARM SIGNAL, SPEAKER AND FLASHING LIGHT. 6 FT.-8 IN. MOUNTING HEIGHT.
F	FIRE ALARM PULL STATION. WALL MOUNTED 42 IN. ABOVE FLOOR.
P	SMOKE DETECTOR, PHOTOELECTRIC TYPE.
CO	CARBON MONOXIDE DETECTOR.
	FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC SUPPLY AIR DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
VS	TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
WF	FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.

SECURITY SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)

SYMBOL	DESCRIPTION
C	ACCESS CONTROL PROXIMITY READER, PROVIDE JUNCTION BOX AND RACEWAY WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
DC	DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4 IN. C. WITH PULL STRING TO STUB-OUT ABOVE CEILING.
	WALL MOUNTED CCTV SECURITY CAMERA. PROVIDE JUNCTION BOX AND RACEWAY WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.

NOTES:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4 IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

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SUNBELT BUILDERS

SHEAR STRUCTURAL

COVINGTON-NEWTON COUNTY 911 CENTER
CITY OF COVINGTON and NEWTON COUNTY
ADDRESS TBD

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET
1	02/18/2026	BULLETIN #1

Drawn By: TAW
Checked By: JHM
Date: 04/29/2025
Job No.: 24029

Sheet Title
ELECTRICAL LEGEND, SPECIFICATIONS, AND SCHEDULES

Sheet No.
E-1.01

RELEASED FOR CONSTRUCTION

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ELECTRICAL SPECIFICATIONS

SECTION F: TELEPHONE/DATA SYSTEMS

WORK INCLUDED:
1. WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE TELEPHONE/DATA CABLING SYSTEM INCLUDING: TELEPHONE/DATA COMBINATION OUTLETS, CABLING, CONDUIT, BOXES, TELEPHONE AND DATA PUNCH DOWN BLOCKS, J-HOOKS, LADDER TRAY, AND PLYWOOD BACKBOARDS.

SCOPE OF PROJECT, STANDARDS, AND DESCRIPTION:

1. THE CABLING AND WIRING PLACED FOR VOICE AND DATA COMMUNICATIONS ON THIS UNDERTAKING SHALL BE "UNSHIELDED TWISTED PAIR" TYPE AND CONFORM TO THE REQUIREMENTS CONTAINED IN THE LASTEST EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND THE LASTEST EDITIONS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS:
A. EIA-TIA-568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
B. STANDARD B. EIA-TIA-569 COMMERCIAL BUILDING STANDARD FOR TELECOMM. PATHWAYS AND SPACES.
C. TIA/EIA-606 ADMINSTRATION STANDARD FOR THE TELECOMM. INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
D. TIA/EIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
E. SUPPLEMENTS TO EIA/TIA-568 TECHNICAL SYSTEMS BULLETINS.
F. TSB-36 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES.
G. TSB-40 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR HARDWARE.

WORKMANSHIP:
1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. ARCHITECT, ENGINEER, AND/OR OWNER MAY OBSERVE THE WORK PROCEDURES AND WORKMANSHIP OF THE CONTRACTOR BUT SUCH OBSERVATION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMANCE.

WARRANTY:
1. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THESE SPECIFICATIONS WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS AND THE CABLE PLANT/LABOR WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED AND THAT ALL DEFECTS OCCURING WITHIN THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO THE OWNER.

CONTRACTOR'S QUALIFICATIONS:
1. CONTRACTOR SHALL BE REQUIRED, BEFORE AWARDING OF CONTRACT, TO DEMONSTRATE TO THE COMPLETE SATISFACTION OF THE ARCHITECT THAT HE HAS THE NECESSARY FACILITIES, ABILITY AND FINANCIAL RESOURCES TO EXECUTE THE WORK IN A SATISFACTORY MANNER AND WITHIN THE TIME SPECIFIED; THAT HE HAS HAD EXPERIENCE IN CONSTRUCTION WORK AS SAME OR SIMILAR NATURE; THAT HE HAS PAST HISTORY AND REFERENCES WHICH WILL ASSURE THE OWNER OF HIS QUALIFICATIONS FOR EXECUTING THE WORK.
2. CONTRACTOR SHALL SUBMIT A COPY OF A VALID LOW-VOLTAGE LICENSE (LOW-VOLTAGE GENERAL, LOW-VOLTAGE TELECOMMUNICATIONS OR LOW-VOLTAGE UNRESTRICTED AS ISSUED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD OF LOW-VOLTAGE CONTRACTORS).
3. CONTRACTOR SHALL SUBMIT A COPY OF BICSI (BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL) CERTIFIED RCDD (REGISTERED COMMUNICATIONS DISTRIBUTIONS DESIGNER) CERTIFICATE.
4. COMPREHENSIVE LIST OF REFERENCES; ATTACH A DETAILED LIST OF REFERENCES ALONG WITH CONTACT PERSON, DATES OF WORK, MAILING ADDRESS, TELEPHONE NUMBERS.
5. CONTRACTOR MUST PROVIDE PROOF OF INSTALLATION IN A MINIMUM OF FIVE SITES USING AN CATEGORY 6A STRUCTURED CABLING WITH 100 OR MORE ACTIVE (WORKING) NODES INSTALLED.

SUBMITTALS:
1. SUBMIT PRODUCT DATA CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE AND AS SPECIFIED FOR;
A. LITERATURE FOR EACH SEPARATE TYPE OF EQUIPMENT BEING PROVIDED. INDICATE MODEL NUMBER ON CUTSHEET.
B. ONE LINE SCHEMATIC OF COMPLETE SYSTEM SHOWING A FLOOR PLAN TO SCALE, SHOW LOCATIONS AND THE TYPE OF OUTLETS, AS WELL AS ALL RACK LOCATIONS, AND CABLING TYPE.
C. DOCUMENTATION OF TESTING ON ALL WIRING AND TERMINATIONS AS PER EIA/TIA STANDARDS.

MAUFACTURERS:

1. ACCEPTABLE MANUFACTURERS FOR EACH TYPE OF EQUIPMENT SPECIFIED SHALL BE AS NOTED THROUGHOUT THIS SPECIFICATION SECTION.

2. THE ACCEPTABLE MANUFACTURERS NOTED SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/ REPRESENTATIVE FOR THAT PRODUCT.

3. THE CONTRACTOR SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE AND RCDD CERTIFICATE, ANY OTHER INTERESTED PARTIES SHALL SUBMIT A COMPANY RESUME SHOWING YEARS IN BUSINESS, CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL AND THAT HE MAINTAINS A FULLY EQUIPPED AND STOCKED SERVICE SHOP AND SHALL RESPOND TO SERVICE CALLS WITHIN 12 NORMAL WORKING HOURS, LIST OF KEY PERSONNEL, COPIES OF APPROPRIATE LICENSES AND LIST OF RECENTLY COMPLETED JOBS.

TELEPHONE/DATA JACK AND OUTLET SPECIFICATIONS:

1. LOCATIONS SHOWN ON DRAWINGS WILL BE EQUIPPED WITH A CONSISTENT ARRANGEMENT OF LAN COMMUNICATIONS OUTLETS. PROVIDE JACKS IN OUTLETS (AS DETAILED ON DRAWING). PROVIDE COLORED ICONS AS INDICATED ON DRAWINGS.
2. OUTLET FACEPLATE FOR THIS ARRANGEMENT SHALL BE CONFIGURED IN THE FOLLOWING FASHION:

A. THE JACKS USED SHALL FIT PROPERLY IN THE OUTLET OPENINGS OF THE OUTLET FACEPLATE. THE JACKS USED ALSO CONFORM TO PARAMETERS SET IN EIA/TIA 568, TSB36 AND TSB40A.

B. IN A PROPERTY INSTALLED CATEGORY 6A UTP WIRING ARRANGEMENT. C. THE WIRING ARRANGEMENT OF THE JACK SHALL CONFORM TO THE EIA/TIA 568, TSB36 AND TSB40A.
3. THE JACK SHALL POSSESS THE FOLLOWING CHARACTERISTICS:

A. THE EIGHT (8) POSITION/ EIGHT (8) CONDUCTOR JACK SHALL BE CAPABLE OF SUPPORTING THE PREVIOUSLY DEFINED DATA RATES AS WELL AS VOICE (INCLUDING ISDN).

B. UTILIZATION OF 110 TYPE OR EQUIVALENT INSULATION DISPLACEMENT HARDWARE FOR HORIZONTAL WIRE ATTACHMENT AND ACCEPTANCE OF 22 OR 24 AWG CONDUCTORS.
C. THE JACK WIRES SHALL CONSIST OF 50 MICRO-INCH LUBRICATED GOLD PLATING OVER 100 MICRO-INCH NICKEL UNDERPLATING.
D. ANY VACANT FACEPLATE POSITION SHALL BE RESERVED FOR FUTURE GROWTH AND SHOULD HAVE A DUST COVER/BLANK INSERTED.
4. ACCEPTABLE MANUFACTURER'S: ORTRONICS, SERIES 11568 B JACKS AND HUBBELL.
5. WIRELESS ACCESS POINTS SHALL HAVE A BISCUIT JACK AT THE CEILING WITH TWO CAT 6A CABLES AND JACKS.

TELEPHONE/DATA HORIZONTAL WIRING SPECIFICATIONS: (BERK-TEK LANMARK 1000 (CAT 6A) CABLE)

1. THIS SECTION COVERS THE CABLE FROM THE COMMUNICATIONS OUTLETS TO THE PUNCH DOWN BLOCK. THESE CABLES SHALL BE AS INDICATED ON DRAWINGS UNSHIELDED TWISTED PAIR CABLE. EACH CABLE SHALL BE PLACED IN A POINT "POINT-TO-POINT" FASHION FROM THE OUTLET TO THE WIRING CLOSET FOR EACH COMMUNICATIONS OUTLET NEEDED. THERE SHALL BE NO INTERMEDIATE SPLICES OR CROSS CONNECTS IN THESE CABLES. PROVIDE ONE (1) CABLE FOR EACH JACK. SEE DRAWINGS FOR NUMBER OF JACKS IN EACH OUTLET. CABLE SHALL BE BLUE IN COLOR. CABLE SHALL BE PLENUM RATED.

2. THE CHARACTERISTICS OF THE HORIZONTAL CABLE ARE AS FOLLOWS:
A. CABLE CONSISTING OF FOUR (4) PAIR OF 23 AWG BARE SOLID COPPER CONDUCTORS INSULATED WITH A PLENUM RATED MATERIAL. THE INSULATED CONDUCTORS ARE TIGHTLY TWISTED INTO PAIRS AND JACKETED WITH FLUOROPOLYMER. NO TYPE OF SHIELD IS REQUIRED IN THE SHEATH.
B. EACH SHEATH SHALL CONTAIN FOUR (4) UNSHIELDED COPPER PAIRS. EACH PAIR SHALL HAVE A DIFFERENT TWIST PER RATIO PER FOOT RANGING FROM 12 TO 24 TWISTS PER FOOT. NO MORE THAT 1/2 INCH MAY BE UNTWISTED AND THE SHEATH MAY NOT BE STRIPPED BACK MORE THAN 1/2 INCH AT THE JACK DURING INSTALLATION.
3. THE CABLE SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. EIA/TIA 568 "COMMERCIAL BUILDING WIRING STANDARD," HORIZONTAL CABLE SECTION.
B. EIA/TIA TSB-36 "TECHNICAL SYSTEM BULLETIN ADDITIONAL CABLE SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES, "CATEGORY 6A".
C. PROPOSED ANSI X3T9.5 REQUIREMENTS FOR UTP AT 100 MBPS.
D. CERTIFIED LEVEL 6A CABLE UNDER UL'S LAN CABLE CERTIFICATION PROGRAM.
E. IEEE 802.3
F. ICEA S80-576
G. UL SUBJECT 444
H. PUB 48007
I. TA-TSO00133
J. NATIONAL ELECTRIC CODE - ARTICLE 800

4. THE CABLES SHALL MEET THE FOLLOWING REPRESENTATIVE ELECTRICAL AND TRANSMISSION CHARACTERISTICS:
A. MUTUAL CAPACITANCE (PF/FT.): 14 (NOM.)
B. IMPEDANCE Z (OHMS FROM 1-25 MHZ): 100 (+/-15%)
C. DC RESISTANCE - MAX. - (OHMS/1000 FT.): 28.6
D. ATTENUATION - MAXIUM FREQUENCY (MHZ) - DB/1000 FT. - DB/100 M.
1 - 6.3 - 2.1
4 - 13 - 4.3
10 - 20 - 6.6
16 - 25 - 8.2
20 - 28 - 9.2
25 - 32 - 10.2
31.25 - 36 - 11.8
62.5 - 52 - 17.1
100 - 67 - 21.9
(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)
E. WORST PAIR-TO-PAIR NEAR END CROSSTALK; FREQ. (MHZ) - WORST PAIR NEXT - (DB)
1 - 62
4 - 53
10 - 47
16 - 44
20 - 42
25 - 41
31.25 - 40
62.5 - 35
100 - 32
(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)

DATA PATCH PANEL SPECIFICATIONS:

1. THIS SECTION COVERS THE TERMINATION HARDWARE LOCATED ON THE WALL DATA BACKBOARD, THE TERMINATION HARDWARE SHALL PROVIDE THE CAPABILITY TO BE ABLE TO PATCH CONNECTIONS BETWEEN PORTS ON THE LAN HARDWARE (ELECTRONICS BY OTHERS, N.I.C.) AND HORIZONTAL CABLES TO THE OUTLETS.
2. THE PATCH PANELS SHALL BE CATEGORY 6A MODULAR JACK PANELS (ORTRONICS CAT 6A OR HUBBELL).
3. THE TERMINATION HARDWARE SHALL BE LOCATED ON 19 IN. WALL MOUNTED CABINET. THE CONFIGURATION OF THE PATCH PANELS SHALL BE IN AN AGREEMENT THAT MINIMIZES PATCH CORD LENGTHS, PROVISIONS FOR CABLE MANAGEMENT AND PATCH CORDS (ORGANIZATION OF HORIZONTAL CABLE AND PATCH CORDS) ON THE RACK SHOULD BE INCLUDED.

4. POTENTIAL HORIZONTAL CABLES TO THE OUTLETS WILL BE DIRECTLY CONNECTED TO 110 INSULATION DISPLACEMENT HARDWARE OR EQUIVALENT ASSOCIATED WITH EACH JACK ON THE PATCH PANEL. THE JACKS ON THE PATCH PANEL SHALL BE WIRED TO THE EIA 568B WIRING STANDARD.

5. CATEGORY 6A, FACTORY BUILT, MANUFACTURE TESTED PATCH CORDS SHALL BE PROVIDED FOR EACH HUB/SWITCH-PORT PROVIDED.

FIBER OPTIC BACKBONE: (SERVICE TO BUILDING BY SERVING UTILITY)

TELEPHONE CABLES SHALL BE THE SAME AS DATA TERMINATIONS AT OUTLET AND PATCH PANEL.

CONDUIT, RACEWAY, AND BACKBOARDS:

1. PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

2. WHERE PLASTER OR UNACCESSIBLE CEILINGS ARE PRESENT, PROVIDE 1 IN. EMT FROM EACH OUTLET TO TELEPHONE BACKBOARD OR TELEPHONE CONNECTION POINT AS DESCRIBED IN THE CONTRACT DOCUMENTS. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

3. SERVICE CONDUIT: PROVIDE (4) 3 INCH CONDUIT AND CABLE IN LOCATIONS NOTED ON DRAWINGS, FROM D-MARK POINT OUTSIDE BUILDING TO COMM ROOM. FIBER SERVICE BY SERVING UTILITY COMPANY.

4. BACKBOARD: PROVIDE PLYWOOD BACKBOARD AS DESCRIBED UNDER "SUPPORTING DEVICES" IN THESE ELECTRICAL SPECIFICATIONS.

CABLE MANAGEMENT PANEL:
1. PAINTED STEEL PANEL FOR STANDARD 19 IN. RACK MOUNTING, WITH FIVE HORIZONTAL 3 IN. X 4 IN. CABLE MANAGEMENT RINGS.

UNINTERRUPTIBLE POWER SUPPLY FOR DATA RACK:
1. THE NETWORK HUB/SWITCH UNIT SHALL BE PLUGGED INTO AN UNINTERRUPTABLE POWER SUPPLY WHICH OPERATES IN A HOT STANDBY STATE WHEN THE AC POWER IS PRESENT, PROVIDING POWER OF CONSISTENT QUALITY. ALSO, THE SWITCH TIME MUST NOT BE MORE THAN 3.5 MICROSECONDS. UPS SHALL BE RACK MOUNTED AND BE A MINIMUM OF 1000 VA CAPACITY.

PULL AND JUNCTION BOX COVER IDENTIFICATION:
1. SEE EQUIPMENT IDENTIFICATION IN THIS ELECTRICAL DIVISION OF THE SPECIFICATIONS.

LABELING:

1. SYSTEM SHALL BE COMPLETELY LABELED, WITH CIRCUIT NUMBERS INDICATED ON THE PATCH PANEL, OUTLET JACKS, AND BOTH ENDS OF THE CABLE. PROVIDE A LIST INDICATING CIRCUIT NUMBERS INSTALLED TO EACH SPACE.

TESTING AND CERTIFICATION:
1. TESTING COPPER DISTRIBUTION SYSTEMS ARE CRUCIAL IN ASSURING THE OVERALL INTEGRITY AND SATISFACTORY PERFORMANCE OF THE NETWORK. TEST RESULTS QUANTIFY SYSTEM QUALITY, IDENTIFY SYSTEM FAULTS, AND ESTABLISH THE BASELINE ACCOUNTABILITY PERFORMANCE OF THE SYSTEM. PROPER TESTING ALSO MAXIMIZES THE LONGEVITY OF THE SYSTEM, MINIMIZES DOWNTIME AND MAINTENANCE, AND FACILITATES SYSTEM UPGRADES OR RECONFIGURATION.

2. THE CONTRACTOR SHALL PROVIDE PROOF OF COMMUNICATIONS WIRING SYSTEMS CERTIFICATION AND TESTING CERTIFICATION.

3. ALL DATA WIRING AND TERMINATIONS SHALL BE TESTED AND MUST PASS EIA/TIA STANDARDS FOR CATEGORY 6A WIRING. ALL WIRING AND TERMINOLOGY FOR VOICE CABLE SHALL BE TESTED FOR CONTINUITY. ALL FAULTS SHALL BE CORRECTED.
4. ALL TEST RESULTS MUST BE PRINTED AND SHOW THE FOLLOWING RESULTS:
IMPEDANCE (TDR), CABLE LENGTH, ATTENUATION, NEAR END CROSS TALK (NEXT), LINE MAPPING, DC OHMS, OTDR.

GUARANTEES:

1. ALL COMMUNICATION OUTLETS WIRED AND SERVICEABLE MUST BE TESTED AND CERTIFIED IN COMPLIANCE WITH THE ANSI/IEEE 802.3 AND EIA/TIA 568 CATEGORY 6 SPECIFICATIONS. TESTING MUST BE "END-TO-END". TEST RESULTS SHALL BE FORWARDED TO ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO FINAL INSPECTION.

BRAVO BLDG SET 03-23-2026

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PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By TAW
Checked By JHM
Date 04/29/2025
Job No. 24029

Sheet Title
ELECTRICAL SPECIFICATIONS

Sheet No.
E-1.02

RELEASED FOR CONSTRUCTION

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ELECTRICAL SPECIFICATIONS

SECTION G
EMERGENCY GENERATOR SYSTEM

1.01 GENERAL

A. Requirements contained in this Specification shall apply to and govern the work under this Section.

1.02 WORK INCLUDED

A. Provide labor and material necessary to install a standby natural gas engine-generator set of the latest commercial type and design as specified herein.

1.03 SUBMITTALS

A. The Contractor shall furnish information showing manufacturers' model number, dimensions, and weights for the engine, generator, and major auxiliary equipment.

1.04 MANUFACTURERS

A. The following manufacturers meeting these specifications are acceptable:

1. Onan
2. Caterpillar
3. Kohler

1.05 SUBSTITUTIONS

A. Proposed deviations from the specifications shall be treated as follows:

1. Request for substitutions shall be made a minimum of ten (10) days prior to bid date. Manufacturers catalog data shall accompany each request and authorized acceptance shall be by addenda only.

2. Under no circumstances will assemblers of units be acceptable. To qualify as a manufacturer, the engine or alternator must be the item manufactured and the completed engine generator set supplied by that manufacturer's authorized dealer only.

3. The Contractor shall submit copies of pertinent drawings and schematic diagrams for approval and shall include the following:

a. Engine generator set including plans and elevations or riser views clearly indicating entrance points for each of the interconnections required.

b. Engine generator/exciter control cubicle.

c. Fuel consumption rate curves at various loads, ventilation and combustion CFM requirements.

d. Exhaust mufflers and vibration isolators.

e. Battery Charger, battery, and battery racks.

f. Automatic load transfer switch.

g. Actual electrical diagrams including schematic diagrams and interconnection wiring diagrams for all equipment to be provided.

h. Legends for all devices on all diagrams.

i. Sequence of operation explanations for all portions of all schematic wiring diagrams.

4. The specified standby KW shall be for continuous electrical service during interruption of the normal utility source and shall be certified to this effect by the manufacturer for the actual unit supplied.

5. These ratings must be substantiated by manufacturer's standard published curves. Special ratings or maximum ratings are not acceptable.

1.06 MATERIALS

A. Engine: The engine shall be 1800 RPM, water-cooled in line or Vee type four-stroke cycle compression ignition natural gas. The engine shall be equipped with fuel, lube oil, and intake air filters, lube oil cooler, engine driven water pump, and unit mounted instruments, water temperature gauge, lubrication oil pressure gauge, and battery charging ammeter.

1. Governor - A gear driven hydraulic governor shall maintain frequency regulation not to exceed 3% (1.8 hertz) from no load to full rated load.

2. Mounting - The units shall be mounted on a structural steel sub-base and shall be provided with suitable spring-type isolators.

3. Safety Devices - Safety shut-off for high water temperature, low oil pressure, over-speed, and engine over-crank shall be provided.

4. Guards - Guards shall be provided over all exposed moving parts as required by OSHA.

B. Generator:

1. The generator shall be rated for continuous stand-by service at size on riser at 0.8 power factor, 120/208 volts, three phase, four wire, 60 hertz, 1800 RPM.

2. The generator shall be a three phase, 60 hertz, single bearing, rotating field, synchronous type built to NEMA standards. A voltage regulator shall be provided to match the characteristics of the generator and engine. Voltage regulation shall be + - 2% from no load to full rated load. Readily accessible voltage drop, voltage level and voltage gain controls shall be provided. Voltage level adjustments shall be a minimum of + - 5%. Generator and exciter shall be inherently capable of parallel operation with other power sources of equivalent electrical characteristics, and stator shall include a twelve lead, re-connectable bus bar system for easy load connection.

C. Cooling System:

1. Radiator - A radiator with blower type fan shall be sized to maintain safe operation 110 degrees F ambient temperature. Air flow restriction from the radiator shall not exceed 0.5" HO.

2. The engine cooling system shall be pre-treated by the system supplier for the inhibition of internal corrosion, and freezing.

D. Fuel System:

1. The generator shall operate on utility supplying natural gas. Delivery pressure to the engine shall be between 7 to 22 psi.

2. Provide a shut off valve, regulator and manual connection to engine. Manual shut off valve shall be pad lockable. Also a tamper switch shall be provided on the manual shut off valve which shall be annunciated on the status panel.

E. Weather Proof Housing and Exhaust Muffler;

1. Housing shall consist of a weather proof enclosure to completely enclose the engine generator and accessories. Housing shall protect the engine generator from the environment, yet be conductive to easy maintenance. Housing shall have removable swing out doors on each side and lockable rear door for access to meters and controls. Side doors shall have a means to pad lock. Construction of housing shall be of a minimum 14 gauge sheet steel and painted manufacturers standard color.

2. Exhaust muffler shall be mounted on top of housing. The exhaust muffler shall be a critical grade muffler. Muffler shall be factory installed so that its weight is not supported by the engine. A flexible exhaust fitting shall be supplied and installed between the muffler and exhaust manifold. All accessories shall be factory installed. This includes flanges, muffler, tail pipe and rain cap.

F. Automatic Starting System:

1. Starting Motor - A DC electric starting system with positive engagement shall be furnished. The motor voltage shall be as recommended by the engine manufacturer.

2. Automatic Control - fully automatic generator set start-stop controls in the generator control panel shall be provided. Controls shall provide shutdown for low oil pressure, high water temperature, over speed, over crank. Controls shall include a 30 second single cranking cycle limit with lockout.

3. Jacket Water Heater - A unit mounted thermal circulation type water heater incorporating a thermostatic switch shall be furnished to maintain engine jacket water to 70 degrees F. the heater shall be 208 volt, single phase, 60 hertz. Provide pressure switch actuated by oil pressure to shut down heater when oil pressure reaches running pressure.

4. Battery Charging Alternator - A belt driven battery charging alternator rated 24 volts, 35 amp DC shall be provided with transistorized voltage regulator.

5. Batteries - A lead - acid storage battery set of the heavy duty natural gas starting type shall be provided. Battery voltage shall be compatible with the starting system. The battery set shall be rated no less than 220 amp-hours. Necessary cables and clamps shall be provided.

6. Battery Racks - Battery racks shall be provided for each battery and shall conform to NEC 480 - 7 (a) (1). They shall be constructed of metal and so treated as to be resistant to deteriorating action by battery electrolyte. Further, construction shall be such that non-conducting insulation material directly supports the cells.

7. Battery Charger - A current limiting battery charger shall be furnished to automatically recharge batteries. Chargers shall float at 2.17 volts per cell. It shall include overload protection, silicon diode full wave rectifiers, voltage surge suppressor, DC ammeter, DC volt- meter, and fused AC input. AC input voltage shall be 120 volts, single phase. Amperage output shall be no less than 6 amperes.

G. Generator Control Panel:

1. Type - A generator mounted NEMA 3R type vibration isolated 14 gauge steel control panel shall be provided. Panel shall contain, but not be limited to, the following equipment:

a. Frequency meter, 3 2 inch, dial type.
b. Voltmeter, 3 2 inch, 2% accuracy.
c. Ammeter, 3 2 inch, 2 % accuracy.
d. Ammeter - Voltmeter phase selector switch.
e. Automatic starting controls as specified.
f. Voltage level adjustment rheostat.
g. Dry contacts for remote alarm wired to terminal strips.
h. Individual fault indicator lights for low oil pressure, high water temperature, over speed, and over crank.
i. Three position function switch marked, RUN-STOP and REMOTE.
j. Running time meter, oil pressure, battery charging ammeter, and water temperature gauges.

H. Main Line Circuit Breakers:

1. Type A main line, molded case circuit breakers mounted upon and sized to the output of the generator shall be installed as a load circuit interrupting and protection device. It shall operate both manually for normal switching functions and automatically during overload and short circuit conditions.

2. The trip unit for each pole shall have elements providing inverse time delay during overload conditions and instantaneous magnetic tripping for short circuit protection. The circuit breaker shall meet standards established by Underwriters Laboratories National Electric Manufacturer's Association, and National Electrical Code.

I. Automatic Load Transfer Switch(es):

1. The amperage rating of each automatic load transfer switch shall be as shown on riser diagram.

2. Each automatic transfer switch shall be mechanically held on both the emergency and the normal side, and rated for continuous duty in an unventilated enclosure. The switches shall be double throw with the main contacts rigidly and mechanically interlocked to insure only two possible positions: Normal or Emergency. A manual operator must be provided to enable manual operation.

3. Rating and Performance: The automatic load transfer control shall be rated for continuous duty when enclosed in a non-ventilated NEMA 3R enclosure. It shall be rated for all classes of load including inductive and non-inductive at 600 volts and tungsten lamp load at 250 volts. The transfer switch portion of the control shall be designed, built, and tested to close on an inrush current up to and including twenty (20) times the continuous rating of the switch without welding or excessive burning of the contacts. The transfer switch shall be capable of switching load up to and including fifteen (15) times the continuous rating of the switch and capable of enduring six thousand (6000) cycles of operation, at rated current, at a rate of six (6) cycles per minute, without failure. One cycle shall consist of one complete opening and closure of both sets of contacts Onan inrush current of ten (10) times the continuous rating of the switch.

4. Each transfer switch shall be listed under U.L. 1008, and approved by Canadian Standards Association. Switches utilizing reversing contactor mechanisms as a means to transfer load are disallowed and will not be considered.

5. Accessories to transfer switches; All automatic load transfer switches shall include the following accessories:

a. Engine starting contacts to provide for generator starting from each unit independent of the other.

b. Full phase protection. Three phase relays shall be field adjustable, close differential type with 92-95% pickup and 82-85% drop out. Relays are to be connected across live lines.

c. Test switch, to simulate a power outage.

d. Adjustable time delay on engine starting to over-ride momentary outages and nuisance voltage dips.

e. Adjustable time delay on transfer of load to emergency source. Adjustable time delay to open transfer switch contact to allow motor loads to decay.

f. Adjustable time delay on retransfer to load to normal with 5 minute cool-down timer wherein the generator set runs unloaded after transfer to line.

g. Plant exerciser to start and run the generator set with or without load each 168 hours for a 30 minute interval. Selector switch will be provided for with load or without load testing.

h. One auxiliary contact closed on emergency and one auxiliary contact open on emergency.

i. Pilot lights to indicate the normal and emergency position of the transfer switch.

j. Isolated (ungrounded neutral bar).

k. Disconnect plug.

J. Temporary Generator Docking Station:

1. Temporary Connection: Provide a Contactor Style temporary generator docking station and manual transfer combination unit, compliant with NEC article 700.3(F). Unit is to be wall mounted on exterior of building, as shown on plans.

2. Docking station to be rated minimum 800 amps, three-phase, 208/120 volts, with factor wired rotary manual transfer switch, and provided with factory auto-start and phase rotation monitoring.

3. Provide complete with two sets of cam lock connectors per phase and neutral, connectors to be typical Series 16, 400 amp connectors.

4. Enclosure to have pad-lockable swing front door with bottom hinged door for cam lock connector access with tamper resistant cable rake system. All bus bars to be Silver Plated Copper.

5. Enclosure to be all aluminum with corrosion resistant power coat finish, NEMA 3R rated (minimum).

6. Docking station to be fully listed to UL 1008 standards and UL 50 listed enclosure.

7. Provide a remote annunciator panel that is co-located with generator annunciator in building as directed by owner / architect. Extend twisted pair cables for monitoring as required.

8. Temporary Generator Docking Station as Manufactured by Trystar, or prior approved equal.

K. Annunciator Panel: A flush recessed panel shall be provided for remote mounting in the Administrative Area or as shown on the drawings to give audible and visual warning of fault or alarm conditions in the generator set. Wiring and conduit shall be as required by the system manufacturer. The panel shall conform to the requirements of the National Electrical Code, Section 700-12, and the National Fire Protection Associates publication, NFPA No. 110-3-5.5.1, Level One. Leak detection status shall be indicated on the annunciator.

L. Transient voltage surge protection shall be provided protecting all low voltage circuits serving the transfer switch and the annunciator. EDCO or equal.

1.07 MANUFACTURING

A. The engine, including engine block, oil plan, and cylinder heads, generator and all major items of auxiliary equipment shall be manufactured in the U. S. by manufacturers currently engaged in the production of such equipment.

B. The unit shall be shipped to the job site by the manufacturer's authorized dealer having a parts and service facility within a 120mile radius of the job site. In addition, and in order not to penalize the owner for unnecessary or prolonged periods of time for service or repairs to the emergency system, the bidding generator set supplier must have no less than eighty percent (80%) of all engine replacement parts in his stock at all times. Certified proof of this requirement shall be available from the dealer and a personal inspection of the dealer's facilities shall be made by the designing engineer or his appointed representative to substantiate claims made by the generator set supplier.

1.08 TESTING

A. Prior to acceptance of the installation, equipment shall be tested to show it is free of any defects and will start automatically and be subjected to full load test through the use of existing loads and, dry type load banks supplied for this purpose at the job site by the generator set supplier.

B. Load bank testing shall be done in the presence of the Owner's engineer or his appointed representative only after the unit is permanently installed in accordance with the plans and specifications. If testing is completed without benefit of Engineers presence, testing shall be done again in his presence. Testing shall be for a period of four (4) hours under full load.

C. Contractor shall supply all fuel necessary for load bank testing and shall before final acceptance of generator unit top off tank leaving it full.

1.09 CERTIFICATE TEST REPORTS, MANUALS AND INSTRUCTIONS

A. Prior to the final inspection, deliver 4 copies of the following items to the Engineer:

1. A certificate by the manufacturer of the engine-generator set that the auxiliary electrical power system has been properly installed, adjusted and tested.

2. Certified copies of all the factory and construction site test data sheets and reports for the engine-generator set and major auxiliaries.

3. Complete operating and maintenance manuals for the engine-generator set and auxiliaries including wiring diagrams, technical data sheets and information for ordering replaceable parts:

a. Include complete interconnection diagrams which indicate all components of the system.

b. Include complete diagrams of the internal wiring for each of the items of equipment.

c. The diagrams shall have their terminals identified to facilitate installation, operation and maintenance.

B. Laminate or mount under plexiglass a set of operating instructions for the system and install it under a neat frame, adjacent to transfer switch.

C. Furnish the services of a competent, factory-trained engineer or technician for instructing operating and maintenance personnel on the proper operation and maintenance of the system at the time of testing.

1.10 SYSTEM SERVICE CONTRACT

A. The supplier of the standby power system shall provide a copy of and make available to the owner his standard service contract which, at the owner's option, may be accepted or refused. This contract will accompany any documents, drawings, catalog cuts, specification sheets, wiring or outline drawings, etc. Submitted for approval to the designing engineer. The contract shall be for the complete power system.

1.11 WARRANTY

A. The complete standby electrical system furnished under this Section shall be guaranteed against defective parts and workmanship under terms of the manufacturer's and dealer's standard warranty. But, in no event shall it be for a period of less than five (5) years or 3000 hours from date of final testing and acceptance of the system and shall include labor, parts and travel time for necessary repairs at the job site. Warranty information shall be submitted along with construction site test data sheets. This information shall list starting and ending dates and who is to be contacted for warranty service.

END OF SECTION G

BRAVO BLDG SET 03-23-2026

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SUNBELT BUILDERS

SHEAR STRUCTURAL

COVINGTON-NEWTON COUNTY 911 CENTER
CITY OF COVINGTON and NEWTON COUNTY
10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By TAW
Checked By JHM
Date 04/29/2025
Job No. 24029

Sheet Title
ELECTRICAL SPECIFICATIONS

Sheet No.
E-1.03

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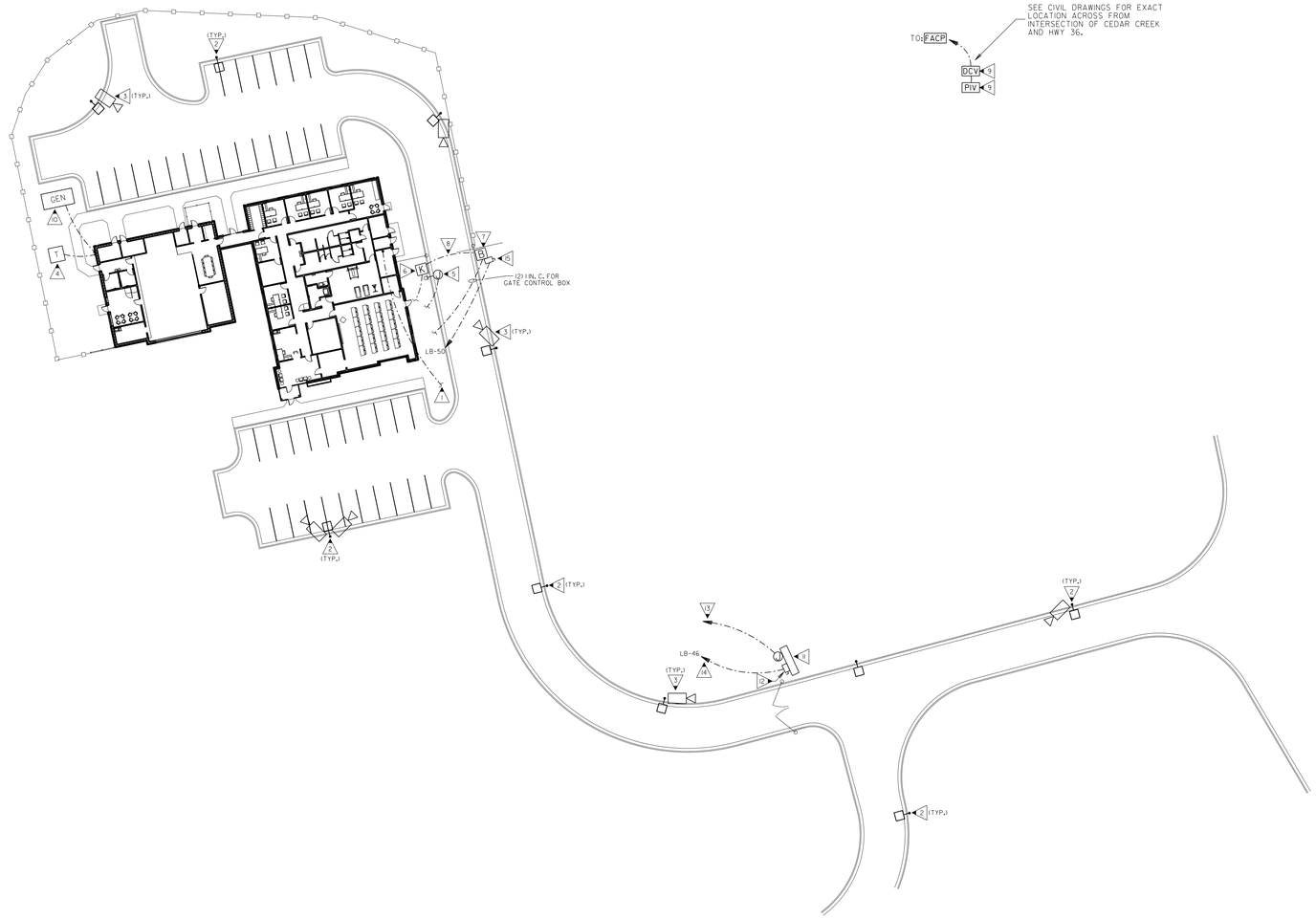

1 E-1.04 SITE PLAN - ELECTRICAL

SCALE: 1"=30'-0"

0 15' 30'

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS AN OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE: THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.

KEYED NOTES: (THIS SHEET ONLY)

1. ROUTE FROM TELEPHONE BACKBOARD TO EACH UTILITY COMPANY SERVICE POINT. COORDINATE WITH SERVING UTILITY CO. PRIOR TO ROUGH-IN. PROVIDE (3) 3 IN. CONDUITS, (2) FOR DATA/TEL AND (1) SPARE. FIELD VERIFY EXACT LOCATION OF UTILITY SERVICE POINTS.
2. SITE LIGHTING BY SERVING UTILITY COMPANY. VERIFY EXACT LOCATION WITH UTILITY COMPANY.
3. FOR SECURITY CAMERA LOCATIONS SHOWN, PROVIDE 4X4 BOX MOUNTED 1FT. ABOVE BASE ON LIGHT POLES WITH MINIMUM 1" CONDUIT AND PULL STRING TO OFFICE 141 FOR CAMERA AND HEAD END EQUIPMENT INSTALLATION BY OTHERS. COORDINATE LOCATION OF CAMERAS AND MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.
4. PROPOSED UTILITY CO. PAD MOUNTED TRANSFORMER. TRANSFORMER FURNISHED AND INSTALLED BY UTILITY CO. CONTRACTOR TO PAY ALL COSTS ASSOCIATED WITH. SEE GENERAL TRANSFORMER NOTES ON THIS SHEET. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE JUNCTION BOX MOUNTED ON BOLLARD FOR PUSHBUTTON WITH SPEAKER. PROVIDE 1 IN. C. TO OFFICE 141. COORDINATE EXACT STUB UP LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6. PROVIDE A 1 IN. C. FROM KEYPAD AT SLIDE GATE TO OFFICE 141 FOR REMOTE OPENER. COORDINATE EXACT STUB UP LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. PROPOSED GATE CONTROL BOX LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE (1) SPARE 1 IN. CONDUIT BETWEEN KEYPAD AND GATE CONTROL BOX.
9. PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION. EXPOSED CONDUIT SHALL BE GRS. PROVIDE LIGHTNING PROTECTION SURGE MODULE WHERE CONDUCTORS ENTER BUILDING.
10. PROPOSED GENERATOR PAD LOCATION. GENERATOR FURNISHED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
11. NEW SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDED. SIGN MUST STAY CLEAR OF UTILITY EASEMENT. MAKE ALL CHANGES REQUIRED.
12. PROVIDE A 30A/2P/3R DISCONNECT WITH 3*3, #8G., 1 1/4 IN. C. (INCREASED SIZE FOR VOLTAGE DROP).
13. ROUTE A 1 IN. C. FROM SIGN TO MAIN ELECTRICAL/MECHANICAL ROOM FOR CONTROLS.
14. ROUTE VIA 10' POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED IN ELECTRICAL 135. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 5 ON SHEET E-2.01. USE #10 ENTIRE CIRCUIT UNLESS OTHERWISE NOTED. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
15. PROVIDE A 30A/2P/3R DISCONNECT WITH 3*8, #10G., 1 IN. C. (INCREASED SIZE FOR VOLTAGE DROP).

GENERAL NOTES: (THIS SHEET ONLY)

A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICAL SURVEYS AND OTHER TRADES.

B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.

C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.

E. PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.

F. PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWING FOR QUANTITIES AND LOCATIONS.

G. ALL POLE MOUNTED SITE LIGHTING IN CONTRACT.

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

CIRCUIT NUMBER

FIXTURE TYPE: TYPE 'A1' IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

BRAVO BLDG SET 03-23-2026

JERICHO design group
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SITE PLAN - ELECTRICAL

Sheet No.
E-1.04

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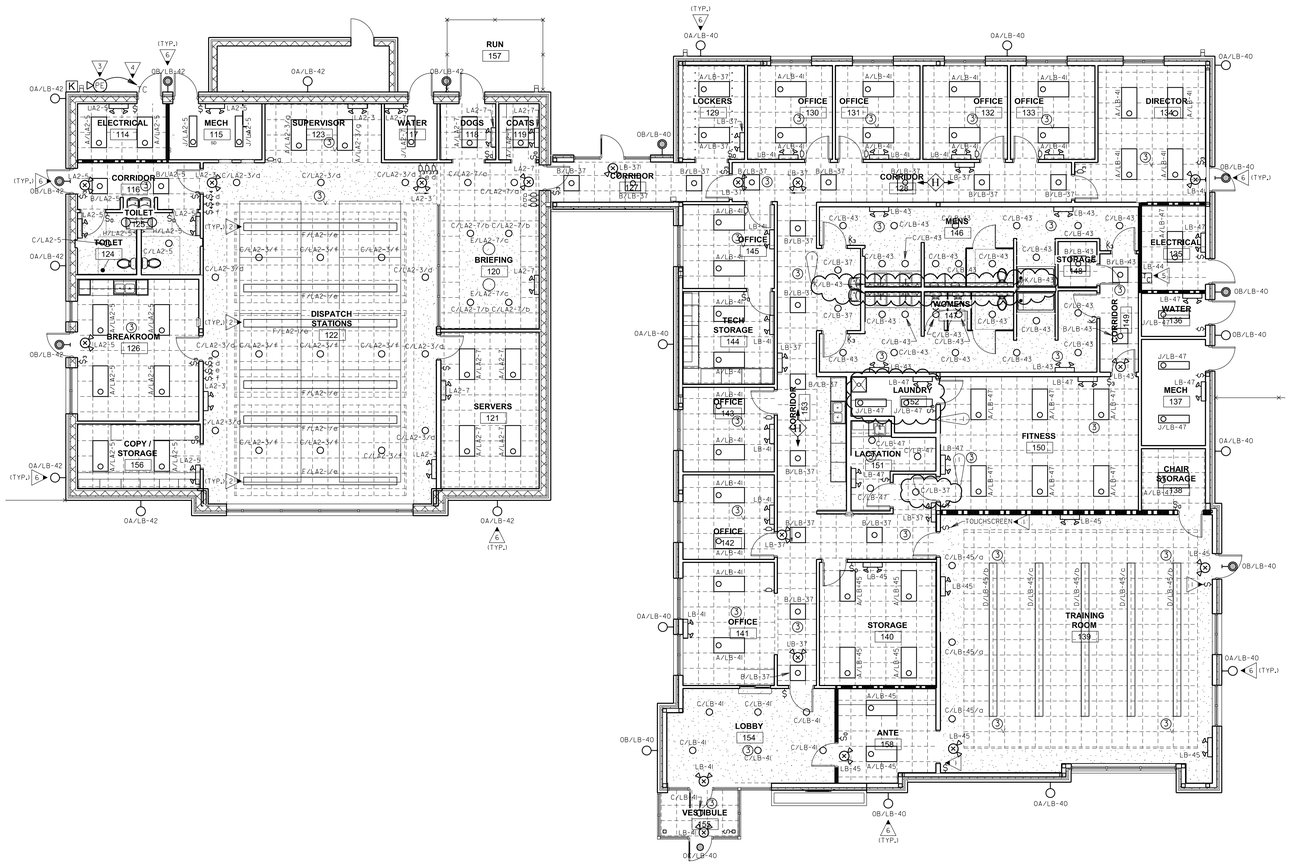
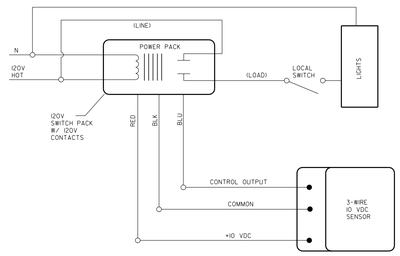


1 E-2.01 FLOOR PLAN - LIGHTING

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

0 4' 8'



2 E-2.01 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING

NOT TO SCALE

(SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND TWO MULTI SCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN TRAINING ROOM 139 WITH SHOWN INDICATIONS (a, b, c) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
2. FIXTURE DIRECT LIGHTING IS CONTROLLED BY SWITCH INDICATION 'e'. FIXTURE INDIRECT LIGHTING IS CONTROLLED BY SWITCH INDICATION 'f'.
3. LOCATE P.E. CELL FACING NORTH, CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
4. ROUTE 3/4" 1/2 IN. C. TO LIGHTING CONTROL TIME CLOCK FOR AUXILIARY SWITCH CONTROL INPUT.
5. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIMECLOCK WITH MINIMUM 6 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 120 VOLTS. PROVIDE WITH NEMA TYPE ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON OR OFF CONTROL.
6. ROUTE VIA 6 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED IN ELECTRICAL 135. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 5. USE #10 ENTIRE CIRCUIT. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.

GENERAL NOTES: (THIS SHEET ONLY)

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL AND ELECTRICAL ROOMS). SEE LIGHTING SENSOR LEGEND E-1.01(TYPICAL).

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

CIRCUIT NUMBER

FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

BRAVO BLDG SET 03-23-2026

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FLOOR PLAN - LIGHTING

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E-2.01

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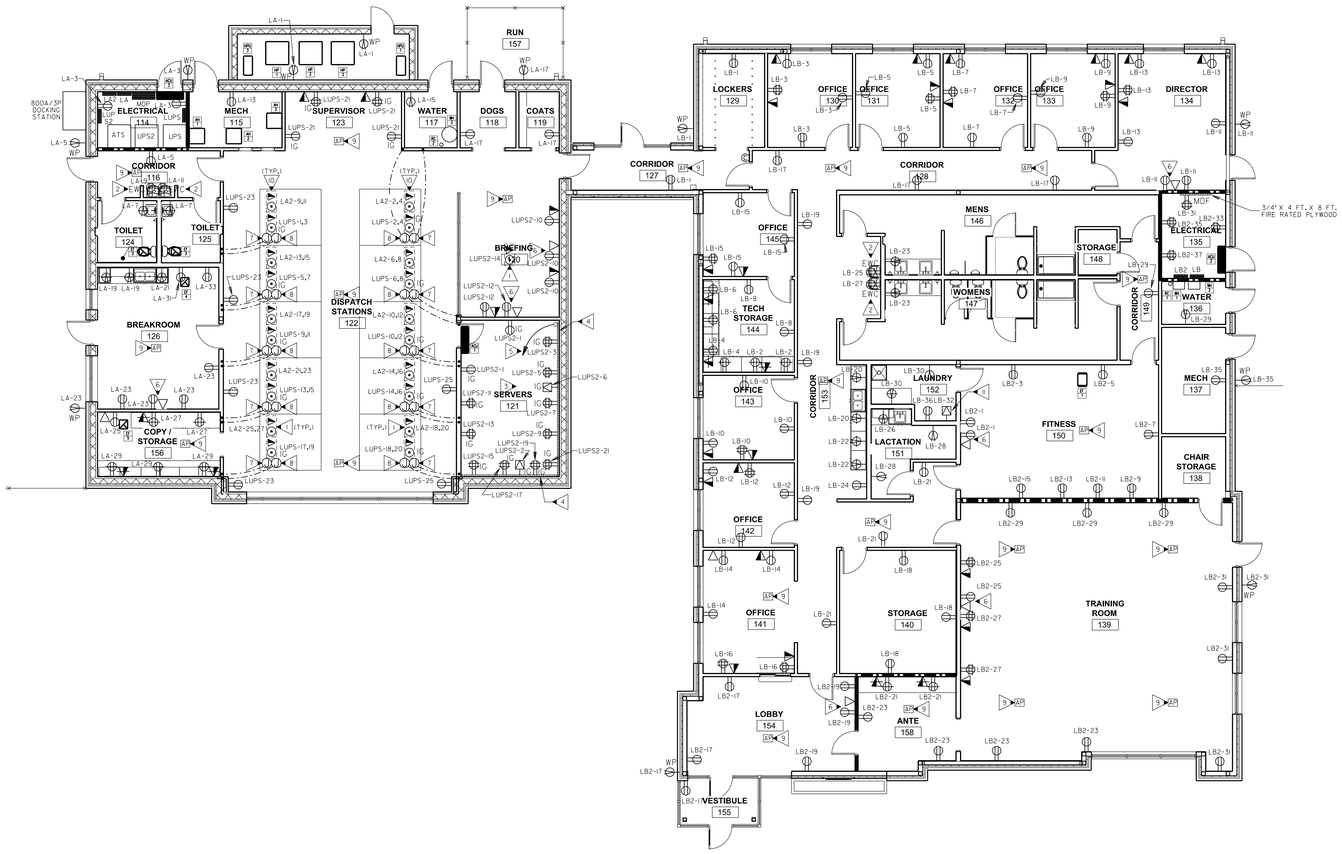

1 E-3.01 FLOOR PLAN - POWER & TEL/DATA SYSTEMS

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

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

MECHANICAL EQUIPMENT POWER SCHEDULE

UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	25A/2P	LA-2	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1
HP-2	208V/1PH	40A/2P	LA-6	3#8, #10G., 1 IN. C.	60A/2P/3R	1,8
HP-3	208V/1PH	40A/2P	LA-10	3#8, #10G., 1 IN. C.	60A/2P/3R	1,8
AH-1	208V/1PH	45A/2P	LA-26	3#8, #10G., 1 IN. C.	60A/2P	1,2
AH-2	208V/3PH	30A/3P	LA-14	4#10, #10G., 3/4 IN. C.	30A/3P	1,2,8
AH-3	208V/3PH	30A/3P	LA-20	4#10, #10G., 3/4 IN. C.	30A/3P	1,2,8
RTU-1	208V/3PH	40A/3P	LB2-2	4#8, #10G., 1 IN. C.	60A/3P/3R	1,3
RTU-2	208V/3PH	40A/3P	LB2-8	4#8, #10G., 1 IN. C.	60A/3P/3R	1,3
RTU-3	208V/3PH	40A/3P	LB2-14	4#8, #10G., 1 IN. C.	60A/3P/3R	1,3
RTU-4	208V/3PH	25A/3P	LB2-20	4#10, #10G., 3/4 IN. C.	30A/3P/3R	1,3
HPU/ACU-1	208V/1PH	30A/2P	LA-30	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,4,8
HPU/ACU-2	208V/1PH	25A/2P	LB2-26	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,4
HPU/ACU-3	208V/1PH	30A/2P	LA-34	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,4
EF-1	120V	20A/1P	LB2-36	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-2	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-3	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-4	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,7
EF-5	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,7
WH-1	120V	20A/1P	LB2-30	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
WH-2	120V	20A/1P	LB2-32	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
WH-3	208V/1PH	30A/2P	LA-38	3#10, #10G., 3/4 IN. C.	MOTOR RATED SWITCH	
RC-1	120V	20A/1P	LB2-34	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
RC-2	120V	20A/1P	LA-42	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	

NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
3. UNIT COMES WITH MANUFACTURERS SUPPLY AIR DUCT SMOKE DETECTOR. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
4. INDOOR UNIT POWERED VIA OUTDOOR UNIT. PROVIDE 3/4 IN. CONDUIT FOR FACTORY CORDSET.
5. FAN SHALL BE CONTROLLED BY A DIGITAL TIME CLOCK LOCATED AT WATER 136. ELECTRICAL SHALL PROVIDE DIGITAL TIME CLOCK. COORDINATE TIME CLOCK REQUIREMENTS WITH MECHANICAL.
6. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 10 MINUTE TIME DELAY RELAY.
7. POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. FAN SHALL BE CONTROLLED BY A MOTOR RATED SWITCH LOCATED IN ROOM FAN SERVES. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT AND MECHANICAL PRIOR TO ROUGH-IN.
8. ALL CONTROL, MONITORING, AND POWER WIRING TO HVAC UNIT MUST BE PART OF A LISTED 2-HOUR FIRE RESISTIVE CABLE SYSTEM AS REQUIRED PER 2023 NEC SECTION 708.14(8).

KEYED NOTES: (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 3/4 IN. C. FOR POWER AND 1 IN. C. FOR TELEPHONE/DATA FROM FLOOR BOX TO STUB UP IN NEAREST WALL.
2. ELECTRIC WATER COOLER. REFER TO TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER, 6/E-5.01.
3. PRIOR TO TO ROUGH-IN OF ALL OUTLETS IN SERVERS 121, COORDINATE AN ON-SITE MEETING WITH THE OWNER'S EQUIPMENT VENDOR AND SYSTEM INSTALLERS.
4. 3/4 IN. X 8 FT. TALL FIRE RATED PLYWOOD BACKBOARD ROUTED ALONG ENTIRE WALL.
5. PROVIDE 1 IN. C. WITH #2G CONNECTED TO EACH GROUND BUS BAR IN SERVERS 121. PROVIDE GROUND BAR AT EACH EQUIPMENT PROVIDERS AREA AND CONNECT TOGETHER CREATING A GROUND LOOP CONNECTED TO THE BUILDING GROUND. BOND TO CABLE TRAY AND TO CABLE ENTRANCE POINT.
6. PROVIDE RECEPTACLE AND DATA OUTLET MOUNTED HIGH ON WALL FOR TV/MONITOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. #2G., 1 IN. C. ROUTED TO METAL CASING AT EACH 911 DISPATCH CONSOLE. BOND TO #2G. AT GROUNDING SYSTEM IN SERVERS 121.
8. 6 IN. X 6 IN. FLUSH RECESSED J-BOX WITH 1 1/2 IN. C. STUBBED UP IN NEAREST WALL TO ABOVE CEILING.
9. PROVIDE BISCUIT STYLE DATA OUTLET MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
10. COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE (2) 3/4 IN. C. FOR POWER AND 1 IN. C. FOR TELEPHONE/DATA FROM FLOOR BOX TO STUB UP IN NEAREST WALL.
11. PROVIDE 3#10, #10G., 3/4 IN. C. FOR DRYER. DRYER ON GFCI BREAKER.

GENERAL NOTES: (SHEETS E-3.01 & E-3.02)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.

D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.

E. FIRE SEAL ALL FIREWALL PENETRATIONS.

ALL CABLING FOR COMMUNICATION SYSTEMS LOCATED IN SERVERS 121 AND DISPATCH STATIONS 122 MUST BE RISER-RATED AND MUST BE A PART OF A LISTED 2-HOUR FIRE RESISTIVE CABLE SYSTEM AS REQUIRED PER 2023 NEC 708.14(7).

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FLOOR PLAN - POWER & TEL/DATA SYSTEMS

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E-3.01

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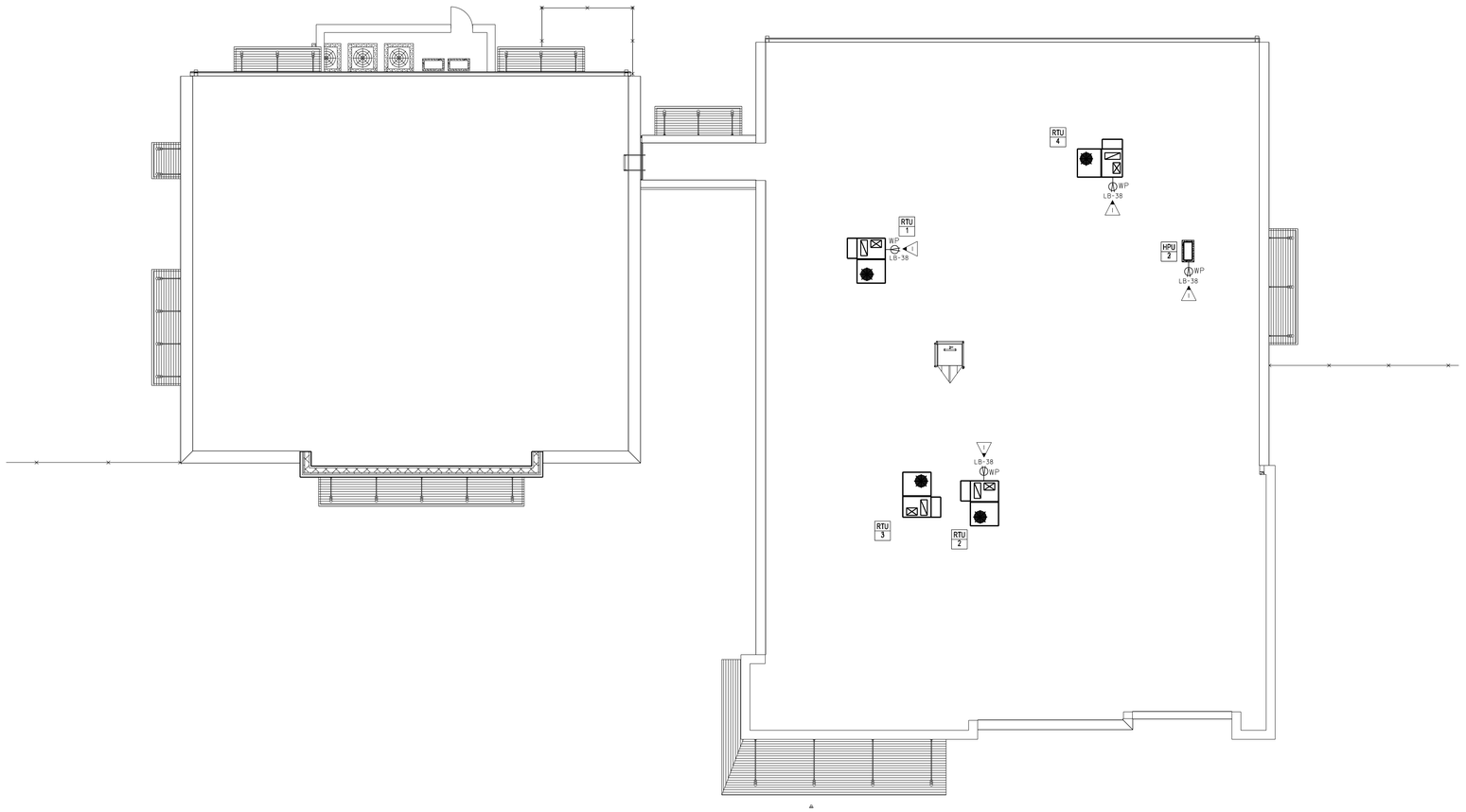
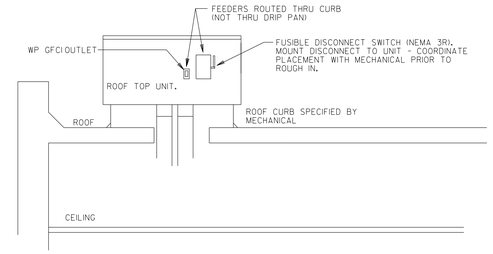


1 E-3.02 ROOF PLAN - POWER & TEL/DATA SYSTEMS

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

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



2 E-3.02 ROOF TOP UNIT DISCONNECT MOUNTING

NOT TO SCALE (TYPICAL)

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE WEATHERPROOF GFI OUTLET IN CAST METAL BOX MOUNTED HARD TO UNIT, CLEAR OF ALL ACCESS PANELS. ROUTE FEEDER TO RECEPTACLE INSIDE CURB PROVIDED FOR UNIT (NOT THRU DRIP PAN). *ID'S ENTIRE CIRCUIT. REFER TO ROOF TOP UNIT DISCONNECT MOUNTING, 2/E-3.02.

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE SHEET E-3.01 FOR GENERAL NOTES.

B. SEE SHEET E-4.03 FOR ROOF MOUNTED LIGHTNING PROTECTION.

BRAVO BLDG SET 03-23-2026

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COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By TAW
Checked By JHM

Date 04/29/2025
Job No. 24029

Sheet Title
ROOF PLAN - POWER & TEL/DATA SYSTEMS

Sheet No.
E-3.02

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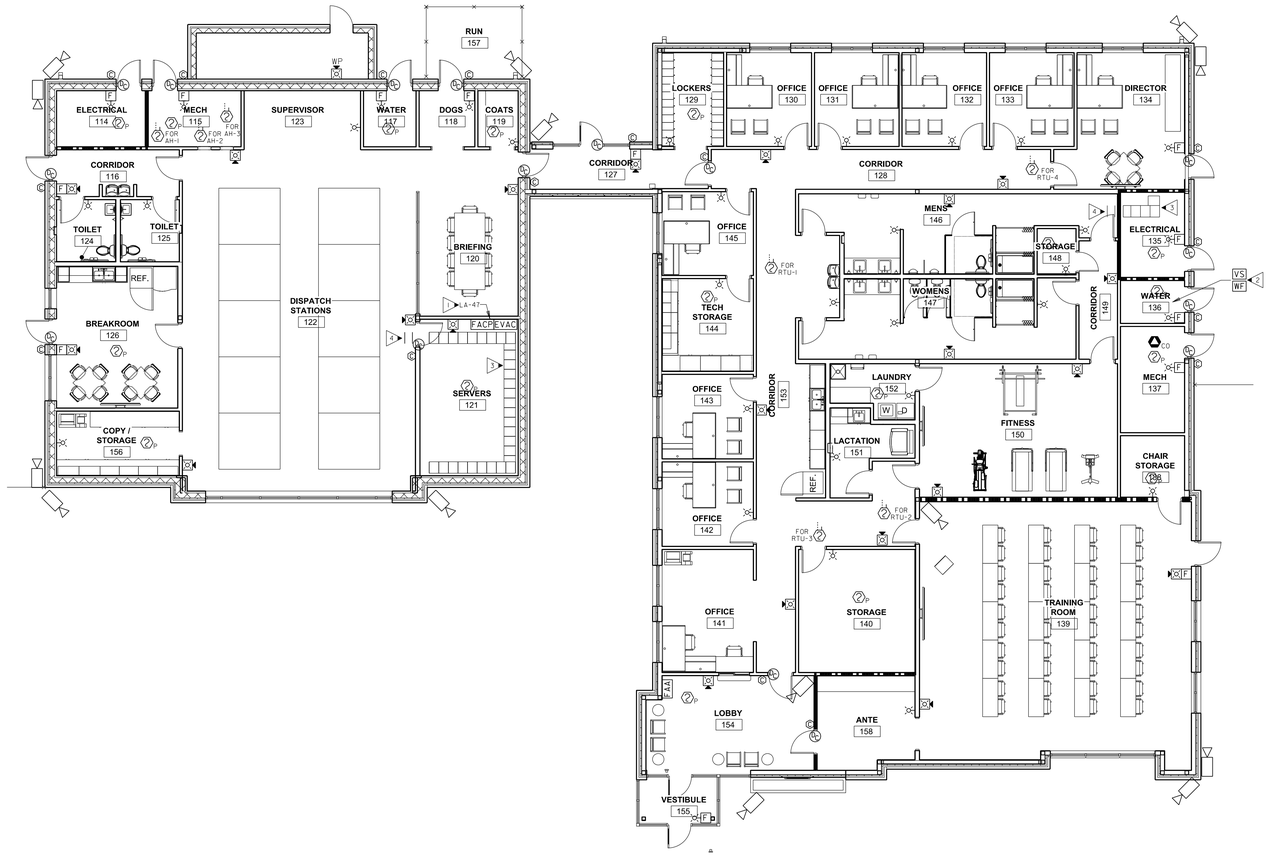

1 E-4.01 FLOOR PLAN - LOW VOLTAGE SYSTEMS

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

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
9. BATTERY CALCULATIONS.
10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS (IF APPLICABLE).
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).

KEYED NOTES: (THIS SHEET ONLY)

1. LABEL CIRCUIT BREAKER SERVING FIRE ALARM CONTROL PANEL WITH RED NAME PLATE "FIRE ALARM CIRCUIT". LABEL FIRE ALARM CONTROL PANEL WITH CIRCUIT NUMBER SERVING PANEL. PROVIDE HASP LOCK FOR CIRCUIT BREAKER.
2. PROVIDE FIRE ALARM SYSTEM MONITORING MODULES AT ALL FIRE SPRINKLER FLOW AND TAMPER SWITCHES AT FIRE RISER. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS.
3. 24 IN. WIDE X 4 IN. DEEP, 6 IN. RUNG SPACING LADDER TYPE CABLE TRAY. COORDINATE EXACT CONFIGURATION AND LAYOUT WITH RACKS/CABINETS INSTALLED. LOCATE BELOW ACOUSTICAL TYPE GRID CEILING AND DIRECTLY ABOVE RACKS. BOND RACK TO #2 GROUND IN ROOM.
4. PROVIDE (3) 4 IN. CONDUIT SLEEVES THRU WALL. COORDINATE EXACT NUMBER OF CONDUIT SLEEVES REQUIRED WITH QUANTITY OF CABLES BEING INSTALLED.

ALL CABLING FOR FIRE ALARM AND SECURITY SYSTEMS LOCATED IN SERVERS 121 AND DISPATCH STATIONS 122 MUST BE RISER-RATED AND MUST BE A PART OF A LISTED 2-HOUR FIRE RESISTIVE CABLE SYSTEM AS REQUIRED PER 2023 NEC 708.14(7).

BRAVO BLDG SET 03-23-2026

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FLOOR PLAN - LOW VOLTAGE SYSTEMS

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CONTRACTOR REQUIREMENTS FOR ERRC SYSTEM / NETWORK:

1.0 GENERAL:

A. CONTRACTOR IS TO INCLUDE IN HIS BID THE FOLLOWING ITEMS ASSOCIATED WITH ERRC INSTALLATION, FOR TESTING AND INSTALLATION AT SUBSTANTIAL COMPLETION, IN COORDINATION WITH LOCAL AUTHORITY HAVING JURISDICTION (AHJ), AND PER THE FOLLOWING SPECIFICATION. PROVIDE AND INCLUDE:

1. CONTROL PANEL / SIGNAL BOOSTER / BI-DIRECTIONAL AMPLIFIER WITH BATTERY BACKUP, CO-LOCATED WITH FACP
2. WALL MOUNT ANNUNCIATOR PANEL (ADJACENT TO FIRE ALARM ANNUNCIATOR)
3. PANEL INTERFACE WITH FIRE ALARM CONTROL PANEL FOR MONITORING.
4. DONOR ANTENNA ON ROOF. ROOF PENETRATIONS PER ARCHITECTURAL DETAILS COMPLIANT WITH ROOF WARRANTY.
5. UP TO THREE (3) D.A.S. ANTENNAS DISTRIBUTED THROUGH THE FACILITY
6. ALL FIELD TESTING TO ESTABLISH SIGNAL STRENGTH AND REQUIREMENTS, FULL FACILITY ALL AREAS, ALL FLOORS.
7. ALL BOXES, CONDUIT AND CABLES REQUIRED FOR INTERCONNECTION AND INTEGRATION OF SYSTEM.
8. DEDICATED 20/1 120 VOLT CIRCUIT, BREAKER HAVING LOCKABLE HASP.
9. DEDICATED LINE VOLTAGE SURGE PROTECTION DEVICE FOR INCOMING BRANCH CIRCUIT. INNOVATIVE TECHNOLOGY IT-PH SERIES OR EQUAL
10. DEDICATED LIGHTNING ARRESTOR / SURGE PROTECTION DEVICE ON CABLE BETWEEN PANEL AND DONOR ANTENNA. INNOVATIVE TECHNOLOGY IT-CF SERIES OR EQUAL

ERRC SYSTEM / NETWORK SPECIFICATIONS:

1.0 GENERAL:

A. CODE: 2018 INTERNATIONAL FIRE CODE (IFC) SECTION 510, (NFPA 1225 - CHAPTER 18) REQUIREMENTS FOR NEW CONSTRUCTION (CLASS A SYSTEM REQUIRED).

B. THIS FACILITY MUST MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL FIRE CODE, SECTION 510, (NFPA 1225 - CHAPTER 18) EMERGENCY RESPONDER RADIO COVERAGE (ERRC) WITH STATE OF GEORGIA ADOPTED MODIFICATIONS RULE 120-3-3.

C. THE EMERGENCY RESPONDER RADIO COVERAGE REQUIRED BY THIS CODE MUST BE INSTALLED, TESTED, AND OPERATIONAL PRIOR TO OCCUPANCY OF THE STRUCTURE. DESIGN, INSTALLATION, AND TESTING OF THE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IS REQUIRED PRIOR TO ACCEPTANCE.

2.0 SCOPE OF WORK:

A. TESTING - NEEDS ASSESSMENT:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE U.L. LISTED CLASS A EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM (ERRCS) FOR THE ENTIRE FACILITY. THE SYSTEM SHALL BE IFC 510 (NFPA 1225 - CHAPTER 18) COMPLIANT IN ADDITION TO NFPA, ICC, IBC, FIRSTNET AND OTHER APPLICABLE CODES AND ORDINANCES. ALL CONDUCTORS OR CABLING FOR THE SYSTEM SHALL BE IN A FULL CONDUIT SYSTEM PER THE SPECIFICATIONS.
2. SUBMIT A COMPLETE LAYOUT OF THE SYSTEM WITH ALL DEVICES AND CONTROL EQUIPMENT SHOWN FOR OWNER / ARCHITECT / ENGINEER REVIEW WITH SUBMITTAL DATA FOR THE SYSTEM. PROVIDE ANY AND ALL ADDITIONAL INFRASTRUCTURE AS REQUIRED. PROVIDE 20A/1P BREAKER IN THE NEAREST ELECTRICAL PANEL TO SERVE THE MAIN CONTROL UNIT. PROVIDE A 20 AMP RATED, 24-HOUR UNINTERRUPTIBLE POWER SUPPLY (UPS) UNIT FOR THE ERRCS HEAD END EQUIPMENT. COORDINATE ALL ROOF PENETRATIONS WITH ARCHITECT AND ROOFING CONTRACTOR PRIOR TO ANY ROUGH-IN ON ROOF. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND ERRC SYSTEM ENGINEERING.
3. INITIAL SIGNAL STRENGTH TESTING MUST BE COMPLETE PRIOR TO THE APPROVAL OF SITE PLANS FOR NEW BUILDINGS AND BUILDING ADDITIONS. PROVIDE FULL FACILITY SIGNAL TESTING, ALL AREAS, ALL FLOORS.
4. FIELD TESTING FOR SIGNAL STRENGTH CERTIFICATION WILL NOT BE CONDUCTED PRIOR TO THE BUILDING ENVELOPE BEING COMPLETE AND ALL DOORS, WINDOWS AND EXTERIOR OPENINGS CLOSED. IN BUILDINGS WITH SIGNIFICANT INTERNAL SIGNAL IMPAIRMENTS LIKE RACK STORAGE FOR METAL PARTS, INTERIOR ROOM ENCLOSURES THAT CONTAIN WIRE MESH SECURITY SCREENS, OR OTHER INTERIOR OR EXTERIOR FEATURES, ETC.; ALL INTERNAL CONSTRUCTION MUST BE COMPLETE PRIOR TO THE FINAL TESTING FOR SIGNAL STRENGTH.
5. TESTING WILL BE PERFORMED IN ACCORDANCE WITH IFC 510 (NFPA 1225 - CHAPTER 18) USING THE 20-TEST CELL (PER FLOOR) CRITERIA FOR INITIAL TESTING. FOR FLOORS OF 32,000 SQUARE FEET OR MORE, EACH FLOOR OF THE BUILDING SHALL BE DIVIDED INTO GRIDS OF APPROXIMATELY 40 FT. X 40 FT.
6. ALL CRITICAL AREAS DEFINED IN NFPA 72 – CHAPTER 24.5.2.2.1 SHALL BE TESTED INDIVIDUALLY AND SHALL NOT BE COUNTED TOWARDS THE 20-TEST CELL COUNT.
7. TESTING RESULTS WILL BE CERTIFIED BY TESTING CONTRACTOR AND FORWARDED TO THE FMO. A COPY SHALL BE LEFT ON SITE WITH APPROVED PLANS.
8. AUTHORIZATION TO OPERATE ON FREQUENCIES LICENSED TO P25-PSRS MUST BE OBTAINED FROM THE RADIO SYSTEM MANAGER OR LOCAL CONTACT. NOTE: FCC PART 90.219 (b)(1)(i)-NON-LICENSEES SEEKING TO OPERATE SIGNAL BOOSTERS MUST OBTAIN THE EXPRESS CONSENT OF THE LICENSEE(S) OF THE FREQUENCIES FOR WHICH THE DEVICE OR SYSTEM IS INTENDED TO AMPLIFY. THE CONSENT MUST BE MAINTAINED IN A RECORDABLE FORMAT THAT CAN BE PRESENTED TO AN FCC REPRESENTATIVE OR OTHER RELEVANT LICENSEE INVESTIGATING INTERFERENCE. CONSENT MAY BE WITHDRAWN BY P25-PSRS FOR ANY REASON WITHOUT NOTICE TO THE PROPERTY OWNER.

3.0 ERRC PLAN DESIGN:

A. DESIGN CONSIDERATIONS - ALL PROPOSED ERRC SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH IFC SECTION 510 (NFPA 1225 - CHAPTER 18) WITH STATE OF GEORGIA ADOPTED MODIFICATIONS 120-3-3, GOOD ENGINEERING PRACTICES AND APPLICABLE REGULATIONS OF THE FEDERAL COMMUNICATIONS COMMISSION.

B. PLANS MUST BE REVIEWED AND APPROVED BY THE FMO PRIOR TO INSTALLATION OR MODIFICATION OF AN ERRC SYSTEM. PLANS SHALL BE ELECTRONICALLY SUBMITTED FOR REVIEW THROUGH WWW.EPLANSOLUTION.COM . AFTER PLAN APPROVAL BY THE FMO, THE APPROPRIATE PERMIT WILL BE ISSUED BY THE FMO.

C. PERMITS WILL BE ISSUED BASED ON A REVIEW OF ENGINEERING PLANS. A DESIGN PROFESSIONAL SEAL IS NOT REQUIRED. PLANS SHALL DETAIL THE FOLLOWING:

1. SITE MAP SHOWING LOCATION OF TARGET BUILDING AND CLOSEST DONOR SITE ANTENNA
2. STATEMENT OF WORK AND SCOPE DESCRIBING THE SYSTEM DESIGN
3. LOCATION(S) OF ALL HEAD END EQUIPMENT AND RADIO TRANSMITTERS (BDA'S)
4. LOCATIONS OF ALL "CRITICAL AREAS" AS DEFINED IN NFPA 72, PARAGRAPH 24.5.2.2.1 WITH ANTICIPATED SIGNAL LEVELS (-95dBm REQUIRED)
5. SIGNAL LINE SCHEMATIC DRAWING OF ANTENNA LINES AND DATA LINE
6. TYPE AND LOCATION OF NEMA 4 ENCLOSURES.
7. TYPE, LOCATION AND PRODUCT DATA FOR LOW VOLTAGE AND LINE VOLTAGE SURGE PROTECTION DEVICES, WITH WIRING SCHEMATICS.
8. BATTERY CALCULATIONS TO SHOW 24 HOURS CAPACITY AT 100% TRANSMIT DUTY CYCLE
9. FLOOR PLAN SHOWING DISTRIBUTED ANTENNA SYSTEM (DAS) ANTENNAS AND THE ANTICIPATED SIGNAL LEVEL IN EACH TEST GRID SQUARE, SEE NUMBER 4 ABOVE ALSO.
10. SYSTEM COMPONENT SPECIFICATION DOCUMENTS INCLUDING COAX CABLE(S) AND DATA FIBER OPTIC COMPONENTS. ALL TRANSMITTERS SHALL BE FCC TYPE ACCEPTED, PROVIDE DOCUMENTATION.
11. SYSTEM MONITORING SHALL INCLUDE:
    a. MONITORING EQUIPMENT AND IDENTIFICATION OF MONITORING STATION.
    b. MALFUNCTION OF THE BDA LOSS OF PRIMARY POWER OR RELATED ELECTRONIC SYSTEMS.
    c. ANTENNAS AND PASSIVE FILTERS ARE EXEMPT FROM MONITORING.
    d. ERRC SYSTEM IS TO BE MONITORED BY THE FACP
11. DETAILED ACCEPTANCE PROCEDURES INCLUDING ALL TALK IN AND TALK OUT SIGNAL LEVELS MUST BE INCLUDED FOR EACH ZONE AND CRITICAL ARE.
12. LOCATION OF DOCUMENTATION BOX - SHALL BE CO-LOCATED WITH THE HEAD END EQUIPMENT, AND MUST INCLUDE THE FOLLOWING DOCUMENTS:
    a. SYSTEM DESIGN DIAGRAMS
    b. ACCEPTANCE TESTING DOCUMENTS
    c. IDENTIFICATION OF PERSONS / COMPANY INSTALLING AND OR MAINTAINING THE SYSTEM
    d. IDENTIFICATION OF THE SYSTEM MONITORING COMPANY WITH PHONE CONTACT NUMBERS
    e. TEST RESULTS FOR THE PRECEDING THREE YEARS OF ANNUAL TEST AND INSPECTIONS, REFER TO 510.6.1
    f. FCC 90.219-FCC LETTER OF CONSENT FROM P25-PSRS.
13. DUAL USE ANTENNA SYSTEMS (PERMITTED ON CASE-BY-CASE REVIEW BASIS)
    a. SHOW THE SCHEMATIC LAYOUT OF THE HEAD END EQUIPMENT AND THE INTERCONNECT FILTERING THAT WILL PREVENT CO-SYSTEM INTERFERENCE.
    b. FILTERS MUST BE ENCLOSED IN LOCKED NEMA 4 CABINET
    c. CELLULAR SYSTEM COMPONENTS THAT CANNOT CREATE INTERFERENCE WITH THE PUBLIC SAFETY RADIO SYSTEM DO NOT NEED TO BE ENCLOSED IN NEMA RATED CABINETS.

4.0 ACCEPTANCE TESTING AND COMMISSIONING:

A. SYSTEM MUST BE INSPECTED BY PERSONNEL FROM THE FMO OR APPROVED THIRD PARTY INSPECTION SERVICES. ACCEPTANCE CRITERIA SHALL BE SPECIFIED IN THE PLAN SUBMITTAL DOCUMENTS AND SHALL CLEARLY DEMONSTRATE THE ABILITY OF THE SYSTEM TO PERFORM IN THE EVEN OF AN EMERGENCY. THE TESTING SHALL BE CONDUCTED BOTH ON PRIMARY AND SECONDARY POWER SOURCES.

B. A CERTIFICATION OF COMMISSIONING SHALL BE COMPLETED BY APPROVED CONTRACTOR AND SIGNED BY THE BUILDING OWNER'S REPRESENTATIVE. AN OPERATIONS AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER AS PART OF THE COMMISSION. REFER TO IFC 510 (NFPA 1225 - CHAPTER 18) FOR ADDITIONAL DETAILS AND REQUIREMENTS.

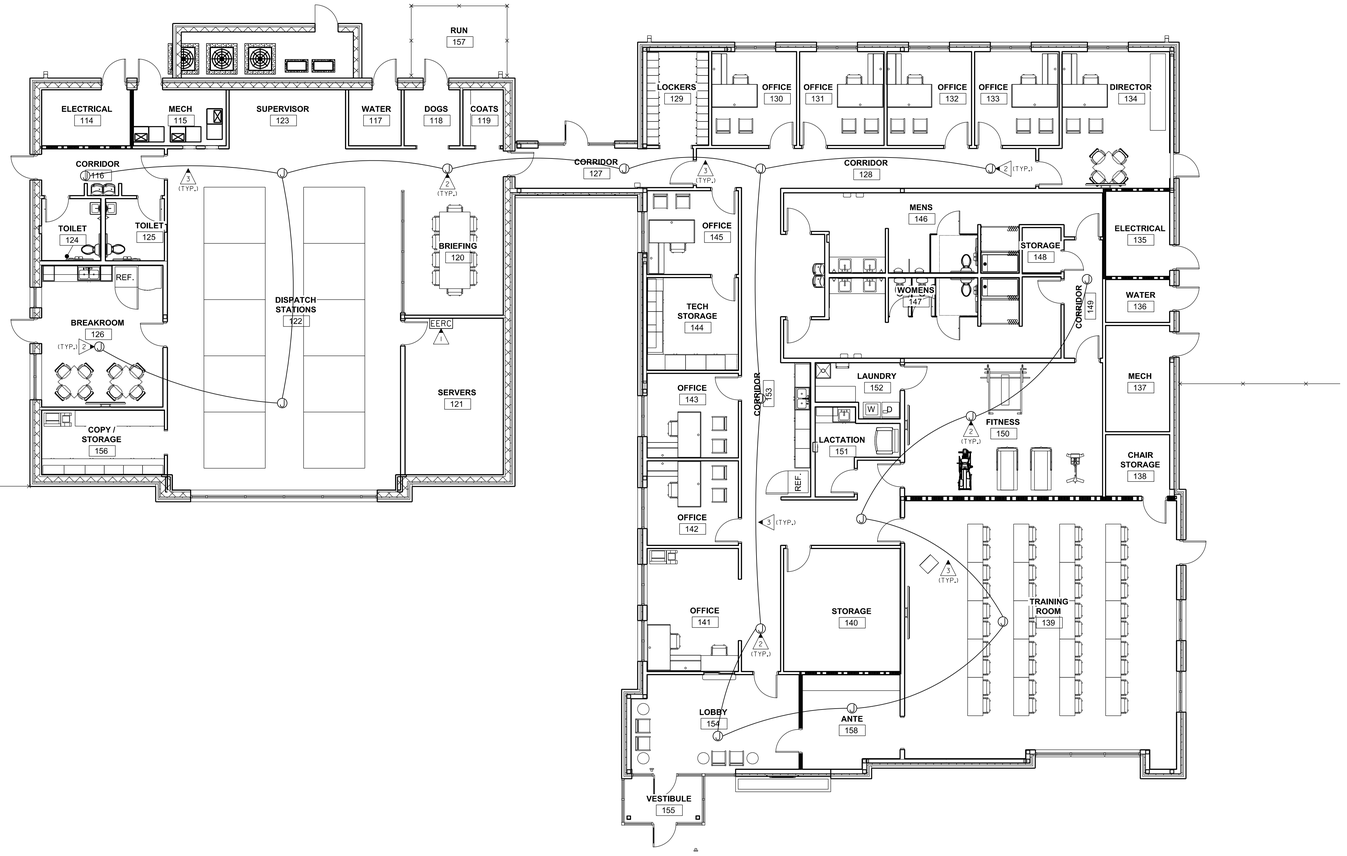
5.0 MAINTENANCE:

A. ALL SYSTEM AND COMPONENTS SHALL BE TESTED ANNUALLY IN ACCORDANCE WITH IFC 510 (NFPA 1255 - CHAPTER 18). A SYSTEM TEST AND INSPECTION REPORT SHALL BE MAINTAINED ON SITE FOR INSPECTION BY THE FIRE MARHSAL'S OFFICE. A TAG SHALL BE PLACED ON THE HEAD END CABINET INDICATING THE DATE OF THE LAST TEST AND THE RESULTS OF THE TEST. ALL TEST REPORTS SHALL BE SUBMITTED TO THE FMO WITHIN AN EXPEDITIOUS MANNER.

B. ANY SYSTEM THAT FAILS ANNUAL TESTING SHOULD BE REPORTED TO THE FMO WITHIN 48 HOURS OF TESTING. SHOULD A SYSTEM FAIL TO PROVIDE ADEQUATE SIGNAL, CAUSE INTERFERENCE, OR FAIL TO PERFORM AS ORIGINALLY INSTALLED, THE FIRE MARSHAL IS AUTHORIZED TO ORDER THE TESTING OF THE SYSTEM AND REPAIR TO ORIGINAL INSTALLATION STANDARDS OR TO THE CURRENTLY ADOPTED EDITION OF THE STANDARD. THE FIRE MARSHAL IS AUTHORIZED TO ORDER THAT CELLULAR SIGNAL BOOSTING SYSTEMS THAT INTERFERE WITH THE PUBLIC SAFETY RADIO SYSTEM BE TESTED OR DISCONNECTED PENDING TESTING IN ORDER TO ELIMINATE INTERFERENCE.

KEYED NOTES: (THIS SHEET ONLY)

1. ERRC SYSTEM PANEL LOCATION. COORDINATE EXACT LOCATION WITH OWNER AND AHJ.
2. JUNCTION BOX FOR ERRC SYSTEM.
3. 1IN. C. THROUGHOUT FOR ERRC SYSTEM.



1 E-4.02 FLOOR PLAN - ERRC SYSTEM

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

0 4' 8'

BRAVO BLDG SET 03-23-2026

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A — AIR TERMINAL

1/2" X 12" LONG SOLID ALUMINUM

IPC #A331
ROBBINS #A24
THOMPSON #A55
VFC #A71

B — CONCEALED AIR TERMINAL BASE ASSEMBLY

CONSISTS OF 1/2" X 12" SOLID ALUMINUM RISER BAR. CABLE CONNECTOR CLAMPS UNDER PRESSURE TO RISER BAR AND CABLE. UNDER ROOF NUT AND LEAD SEALING WASHER FOR ABOVE THE ROOF. INCLUDES ADAPTER FOR 1/2" POINTS WHICH SCREW ON LEAD WASHER.

IPC #A331
ROBBINS #A24
THOMPSON #A55
VFC #A71

C — GROUND ROD

3/4" X 10' COPPERCLAD

IPC #579
ROBBINS #97-10
THOMPSON #TL3410
VFC #3410

D — SMOOTH TWIST ALUMINUM CABLE

24 STRAND, 14 GAUGE CABLE, 96,500 CIRCULAR MILS.

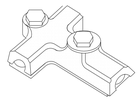
IPC #A24
ROBBINS #A3
THOMPSON #A24
VFC #A24S

E — SMOOTH TWIST COPPER CABLE

32 STRAND, 14 GAUGE CABLE, 65,500 CIRCULAR MILS.

IPC #32S
ROBBINS #1
THOMPSON #32
VFC #32

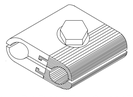
F — PRESSURE TYPE TEE CABLE SPLICER



PRESSURE TYPE TEE SPLICER. CLAMPS STRANDED CABLE THROUGH 2/0. FINISHED COMPLETE WITH TWO HEX BOLTSAND WASHERS.

THOMPSON #706
VFC #207
IPC #304
ROBBINS #664

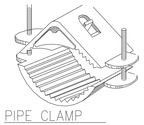
G — BIMETAL PARALLEL CLAMPS



COPPER TO ALUMINUM BIMETALLIC CLAMP MADE OF CAST ALUMINUM AND BRONZE INHERENTLY MOLDED AS ONE UNIT FOR SPLICING STANDARD ALUMINUM CABLE TO COPPER CABLE THROUGH 2/0 SIZE

THOMPSON #240X
VFC #233
IPC #306A
ROBBINS #63B

K — PIPE CLAMP



ADJUSTABLE TINNED BRONZE CLAMP FOR BONDING TO PIPES. FITS PIPES 1 1/4" TO 2 1/4" O.D.

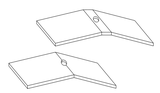
IPC #306A
ROBBINS #63B
THOMPSON #240X
VFC #233

H — COPPER LOOP FASTENER

FITS STANDARD CABLES THROUGH 2/0 COPPER, 1/2" WIDE FOR ONE NAIL OR WOOD SCREWS.

IPC #121A
ROBBINS #72
THOMPSON #165
VFC #251

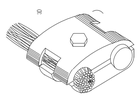
L — FLASHING SADDLE



FLEXIBLE ALUMINUM 3 1/8" WIDE FLASHING SADDLE. FITS ALL PITCHED ROOFS.

ROBBINS #A121FS
THOMPSON #A682X

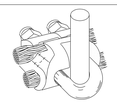
J — LARGE BRONZE CLAMP



HEAVY DUTY, FOR CLAMPING TWO STANDARD CABLES THROUGH 2/0 AND/OR THROUGH 5/8" RODS.

THOMPSON #141
VFC #212
IPC #297A
ROBBINS #52

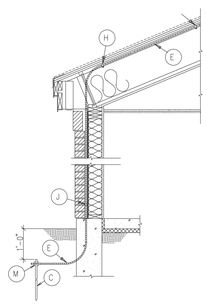
M — PERPENDICULAR GROUND ROD AND CABLE CLAMP



COPPER BRONZE FOR CONNECTING ONE OR TWO HORIZONTAL CABLES THROUGH 2/0 TO ANY SIZE GROUND ROD THROUGH 3/4".

IPC #28U
ROBBINS #99A
THOMPSON #493
VFC #305

P — CABLE INSTALLATION DETAIL



NOT TO SCALE

LIGHTNING PROTECTION GENERAL NOTES:

A. LOCATE AIR TERMINALS AS SHOWN OR AS REQUIRED TO ACHIEVE U.L. MASTER LABEL. PROVIDE ADDITIONAL ELECTRODES AND DOWN CONDUCTORS AS REQUIRED TO MEET UL96A FOR MASTER LABEL REQUIREMENTS. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS, AND THAT MAXIMUM SPACING DOES NOT EXCEED 20'-0", AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10". (POINTS PROJECTING 24" MAY BE SPACED @ 25' MAX.

B. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR AND ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90 .

C. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON METAL ROOF APPLICATIONS PRIOR TO INSTALLATION

D. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL DRIVEN RODS SHALL PENETRATE EARTH AT LEAST 10'-0".

E. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODES.

F. INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE.

G. SYSTEM SHALL BE INSTALLED AS SHOWN TO ENSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCE SHALL ENTAIL RESUBMITTAL AND NEW APPROVAL

H. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.

J. ALL MATERIAL TO BE UNDERWRITER'S LABORATORIES APPROVED WITH LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND LABELS ON ALL AIR TERMINALS.

K. COMPLETED INSTALLATION AS SHOWN SHALL BEAR U.L. MASTER LABEL. TO BE SECURED BY SYSTEM INSTALLER PER UL96A.

L. ALL MATERIALS SHOWN AND INTENDED FOR USE ARE TO BE AS MANUFACTURED BY THOMPSON LIGHTNING PROTECTION INC., 901 SIBLEY HWY. ST. PAUL, MN 55118 OR LISTED EQUAL.

M. INSTALLATION SHALL COMPLY IN ALL RESPECTS TO L.P.I. CODE 175. INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER. COMPLETED INSTALLATION TO RECEIVE SYSTEM CERTIFICATION INCLUDING SUBMITTAL OF FORM L.P.I.-I-R9.

LIGHTNING PROTECTION SYSTEM SPECIFICATIONS

1. PROVIDE A COMPLETE LIGHTNING PROTECTIONS SYSTEM IN ACCORDANCE WITH UL96A USING CLASS I MATERIALS. OBTAIN UL MASTER LABEL. CONCEAL DOWN CONDUCTORS IN 1 IN. PVC CONDUIT WITHIN BUILDING WALLS.

2. ALL COMPONENTS OF THE LIGHTNING PROTECTION SYSTEM SHALL BE UL APPROVED.

3. ACCEPTABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, THE FOLLOWING LIGHTNING PROTECTION SYSTEM MANUFACTURERS ARE APPROVED.
   A. INDEPENDENT PROTECTION CO., INC.
   B. PENTAIR.
   C. THOMPSON LIGHTNING PROTECTION CO., INC.

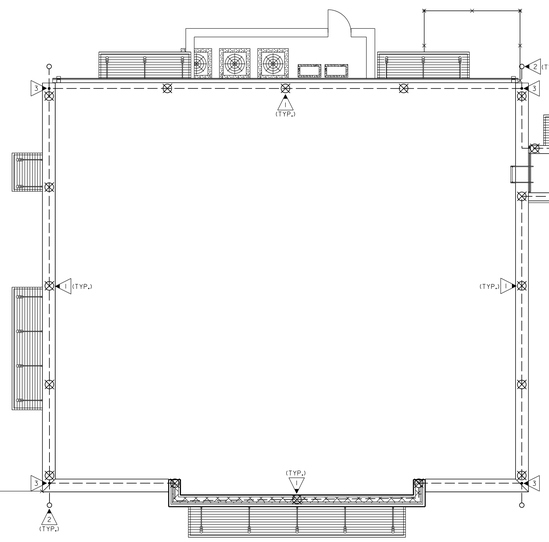
4. LIGHTNING PROTECTION SYSTEM COMPONENTS.
   A. GENERAL. PROVIDE LIGHTNING PROTECTION SYSTEM MATERIAL AND COMPONENTS OF TYPES, SIZES, RATINGS FOR CLASS OF SERVICE INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD MATERIALS, DESIGN AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION AND AS REQUIRED FOR COMPLETE INSTALLATION. WHERE TYPE COMPONENTS OR MATERIALS ARE NOT OTHERWISE INDICATED AND COMPLY WITH LPI STANDARDS.
   B. CLASS I INSTALLATION MATERIALS.
      1. AIR TERMINALS: SOLID ALUMINUM.
      2. MAIN CONDUCTORS: ALUMINUM CABLE.
      3. SECONDARY CONDUCTORS: ALUMINUM CABLE.
      4. DOWN CONDUCTORS: ALUMINUM CABLE.
      5. GROUND RODS: COPPER CLAD STEEL 3/4IN. X 10FT.

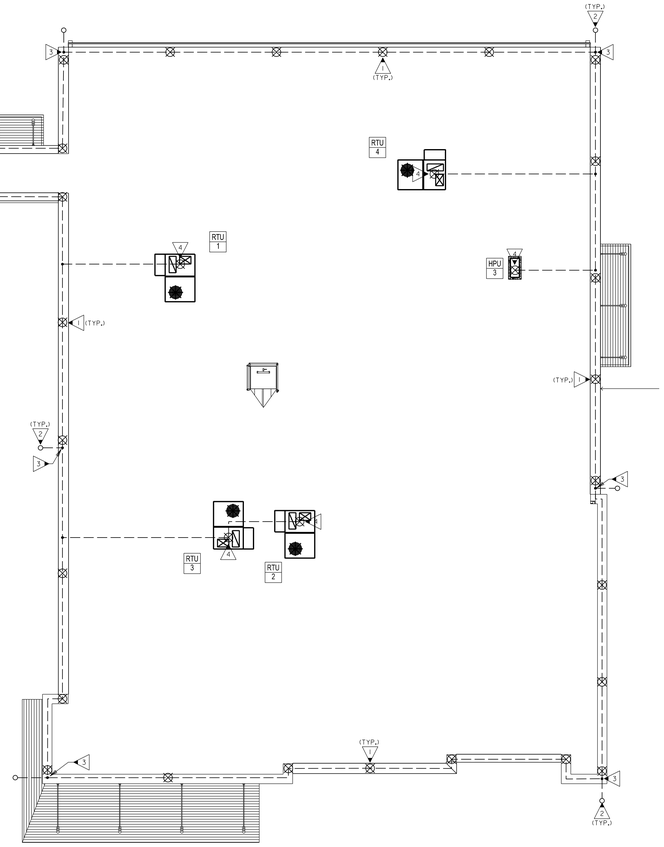
5. INSTALLATION.
   A. INSTALL LIGHTNING PROTECTION SYSTEMS AS INDICATED, IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF NEC TO ENSURE THAT LIGHTNING PROTECTION SYSTEMS COMPLY WITH REQUIREMENTS.
   B. COORDINATE WITH OTHER WORK, INCLUDING ELECTRICAL WIRING AND ROOFING WORK, AS NECESSARY TO INTERFACE INSTALLATION OF LIGHTNING PROTECTION SYSTEM WITH OTHER WORK.
   C. INSTALL CONDUCTORS WITH DIRECT PATHS FROM AIR TERMINALS TO GROUND CONNECTIONS AVOIDING SHARP BENDS AND NARROW LOOPS.
   D. PROVIDE EQUIPMENT GROUNDING AND BONDING CONNECTIONS, SUFFICIENTLY TIGHT TO ASSURE PERMANENT AND EFFECTIVE GROUND AND BONDS, FOR LIGHTNING PROTECTION CONNECTION DEVICES AS INDICATED.

6. PERFORMANCE AND QUALITY ASSURANCE
   A. MANUFACTURERS, FIRMS REGULARLY ENGAGED IN MANUFACTURE OF LIGHTNING PROTECTION SYSTEM COMPONENTS, OF TYPES, SIZES AND RATINGS REQUIRED, AND WHO ARE CLASS I MANUFACTURER-MEMBERS OF LIGHTNING PROTECTION INSTITUTE.
   B. INSTALLER'S QUALIFICATIONS, FIRMS WITH AT LEAST FIVE YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE WITH PROJECTS UTILIZING LIGHTNING PROTECTION SYSTEMS SIMILAR TO THAT REQUIRED FOR THIS PROJECT, AND WHO ARE CLASS II, INSTALLER-MEMBERS OF LIGHTNING PROTECTION INSTITUTE.
   C. NEC COMPLIANCE, COMPLY WITH NEC REQUIREMENTS PERTAINING TO GROUNDING, GROUNDING ELECTRODES, AND DOWN CONDUCTOR CLEARANCES.
   E. ANSI COMPLIANCE, COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI STANDARDS C2, C62.1, C62.2, AND C114.1.
   F. UL COMPLIANCE, COMPLY WITH MASTER LABEL PROVISIONS OF UL 96A, "INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION COMPONENTS". PROVIDE COMPONENTS WHICH ARE UL-LISTED AND LABELED.
   G. LPI COMPLIANCE, COMPLY WITH REQUIREMENTS OF LIGHTNING PROTECTION INSTITUTE (LPI) STANDARDS 175, 176, AND 177, PERTAINING TO LIGHTNING PROTECTION SYSTEM MATERIAL, COMPONENTS, INSTALLATION AND TESTING PROCEDURES.

7. TESTING:
   A. UPON COMPLETION OF INSTALLATION OF LIGHTNING PROTECTION SYSTEM, TEST, RESISTANCE-TO-GROUND WITH RESISTANCE METER. WHERE FALL OF POTENTIAL TESTS INDICATE RESISTANCE-TO-GROUND IS OVER 5 OHMS, TAKE APPROPRIATE ACTION TO REDUCE RESISTANCE TO 5 OHMS OR LESS, BY DRIVING ADDITIONAL PROPERLY SPACED GROUND RODS. DEMONSTRATE COMPIANCE.

8. SUBMITTALS:
   A. PRODUCT DATA, SUBMIT MANUFACTURER'S DATA ON LIGHTNING PROTECTION SYSTEMS AND ASSOCIATED COMPONENTS.
   B. SHOP DRAWINGS, SUBMIT LAYOUT DRAWINGS OF LIGHTNING PROTECTION SYSTEM EQUIPMENT AND COMPONENTS INCLUDING, BUT NOT LIMITED TO, CONDUCTOR ROUTING, CONNECTIONS AND GROUNDING.
   C. UL CERTIFICATION, PROVIDE OWNER WITH UL MASTER LABEL CERTIFICATION

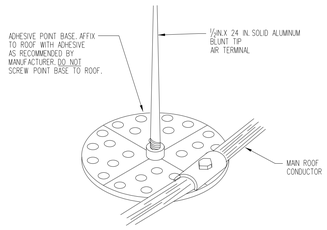




1 E-4.03 FLOOR PLAN - LIGHTNING PROTECTION

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

0 4' 8'



2 E4.03 LIGHTNING POINT ATTACHMENT DETAIL

NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

1. SEE LIGHTNING POINT ATTACHMENT DETAIL, 2/E-4.03.
2. DOWN CONDUCTOR TO BURIED COUNTERPOISE. MAKE FINAL CONNECTION AS REQUIRED. COORDINATE EXACT LOCATION. CONTRACTOR TO OHM OUT TO VERIFY GROUND CONTINUITY AND PROVIDE NEW DOWN CONDUCTORS AS REQUIRED TO ACHIEVE 5 OHMS OR LESS.
3. PRESSURE TYPE TEE CABLE SPLICER. SEE DETAIL F/E-4.03.
4. MOUNT LIGHTNING POINT ON ROOF MOUNTED HVAC EQUIPMENT.

LEGEND: (THIS SHEET ONLY)

– – – – – –	CLASS II MAIN CONDUCTOR ON ROOF
⊠	LIGHTNING POINT

BRAVO BLDG SET 03-23-2026

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MACON OFFICE - PROJECT #: M25002
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SUNBELT BUILDERS

SHEAR STRUCTURAL

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By TAW
Checked By JHM
Date 04/29/2025
Job No. 24029

Sheet Title
FLOOR PLAN - LIGHTNING PROTECTION

Sheet No.
E-4.03

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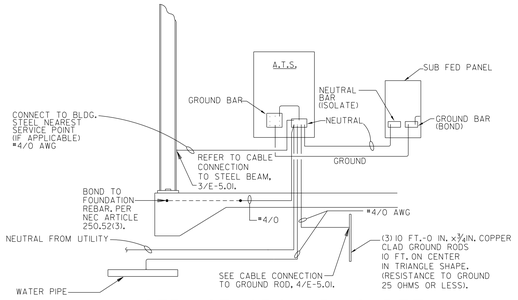
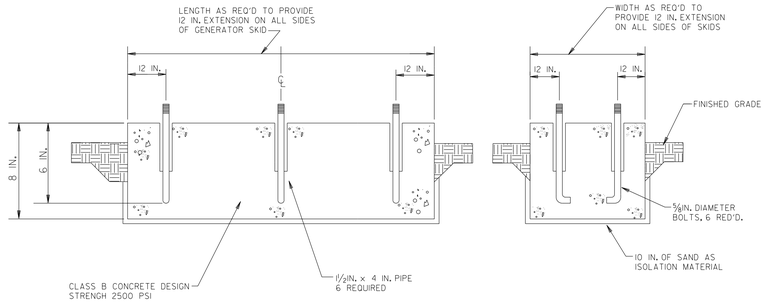


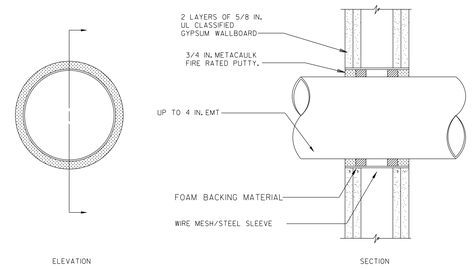
2 / E-5.01 SERVICE GROUNDING DETAIL

NOT TO SCALE



5 / E-5.01 GENERATOR PAD DETAIL

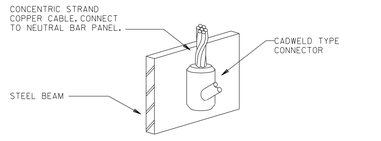
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

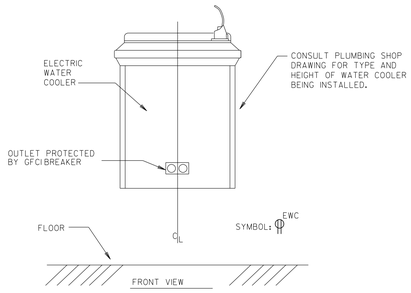
7 / E-5.01 DETAIL - GYPSUM WALLBOARD PENETRATION

NOT TO SCALE



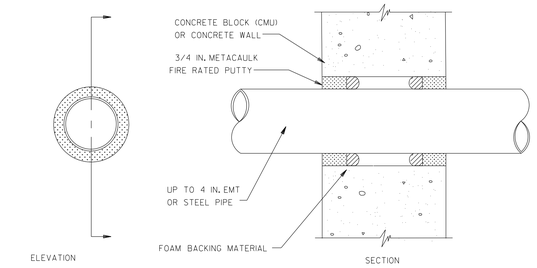
3 / E-5.01 CABLE CONNECTION TO STEEL BEAM

NOT TO SCALE



6 / E-5.01 TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER

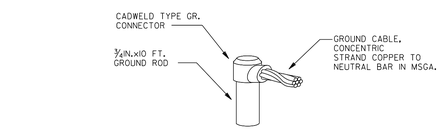
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

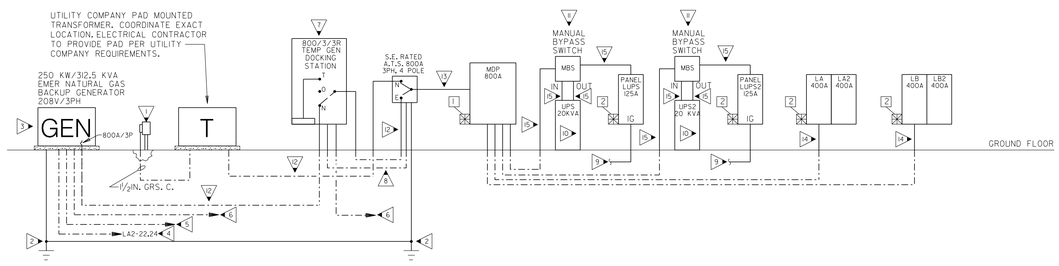
8 / E-5.01 DETAIL - CONCRETE WALL PENETRATION

NOT TO SCALE



4 / E-5.01 CABLE CONNECTION TO GROUND ROD

NOT TO SCALE



1 / E-5.01 POWER RISER DIAGRAM

NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

1. METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH THE METER.
2. SEE SERVICE GROUNDING DETAIL, 2/E-5.01.
3. PROVIDE GENERATOR AND CONCRETE PAD PER DETAIL 5/E-5.01. GENERATOR TO BE INSIDE SOUND ATTENUATED WEATHER PROOF ENCLOSURE.
4. CIRCUITS TO PANEL LA2 FOR GENERATOR BATTERY CHARGING AND ENGINE HEATER. DESIGN BASIS 2#10, #10G., 3/4 IN. C. FOR BATTERY CHARGER. DESIGN BASIS 3#8, #10G., 1 IN. C. FOR ENGINE HEATER. VERIFY EXACT REQUIRED CIRCUIT SIZES WITH GENERATOR PROVIDER PRIOR TO ROUGH-IN.
5. PROVIDE 1 IN. C. TO OFFICE 141 FOR REMOTE MONITORING.
6. CONTROL CONDUITS FOR CONTROL PANEL IN OFFICE. PROVIDE MINIMUM 1½IN. C. AND CABLES PER GENERATOR MANUFACTURER REQUIREMENTS.
7. 800 AMP, 208/120 VOLT, 3PH, 4W TEMPORARY GENERATOR DOCKING STATION. NEC 700.3(F) COMPLIANT. NEMA 3R ENCLOSURE. SEE SPECIFICATION SECTION G EMERGENCY GENERATOR SYSTEM, PARAGRAPH 1.06.U FOR MORE INFORMATION.
8. 1 IN. C. WITH TWO (2) 2-SHIELDED TWISTED PAIRS, EACH PAIR TO BE MINIMUM #14 AWG CONDUCTORS, FOR GENERATOR START STOP CONTROLS.
9. PROVIDE #6 ISOLATED GROUNDING CONDUCTOR BACK TO SERVICE ENTRANCE GROUNDING CONDUCTOR.
10. EATON 20KVA UPS (9PXM SERIES OR EQUAL), 125 AMP, 208 VOLT SINGLE PHASE IN, 120/240 VOLT SINGLE PHASE OUT. THIS UPS WILL BE PROVIDED AND PLACED IN ELECTRICAL 114 BY THE ELECTRICAL CONTRACTOR.
11. NEW EATON, 125 AMP, 120/208 VOLT, SINGLE PHASE MAINTENANCE BYPASS SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
12. 2 SETS: 4#600MCM, 4 IN. C.
13. 2 SETS: 4#600MCM, #3/0G., 4 IN. C.
14. 4#600MCM, #1/0G., 4 IN. C.
15. 2#1, #4/0 NEUTRAL (200% RATED), #6G., 2 IN. C.

T.V.S.S.

1 MAIN SERVICE PANELS. PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 300,000 SURGE CURRENT RATING, SERVICE ENTRANCE RATED, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL

2 DISTRIBUTION PANELS. PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 150,000 SURGE CURRENT RATING, SERVICE ENTRANCE RATED, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL

BRAVO BLDG SET 03-23-2026

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PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By: TAW
Checked By: JHM
Date: 04/29/2025
Job No.: 24029

Sheet Title: **POWER RISER DIAGRAM & DETAILS**

Sheet No.: **E-5.01**

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PANEL MDP

VOLTAGE 120 / 208 · PHASE 3 WIRE 4 · BUS AMPS 800 · PANEL MDP · MAIN AMPS 800 · LOCATION ELECTRICAL 114 · MOUNTING SURFACE · MAIN BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
LUPS	9600			125	2	1	A	2	3	225			30877	PANEL LA
		8800				3	B	4				28467		
LUPS2			9400	125	2	5	C	6			26862			
	8400					7	A	8	3	400			31240	PANEL LB / LB2
SPACE					2	9	B	10				31464		
						11	C	12			27343			
SPACE					3	13	A	14	3					SPACE
						15	B	16						
						17	C	18						
SPACE					3	19	A	20	3					SPACE
						21	B	22						
						23	C	24						
TVSS				60	3	25	A	26	3					SPACE
						27	B	28						
						29	C	30						
TOTALS	18000	8800	9400								54205	59931	62117	

VOLT AMPS: BUS A 80117 · BUS B 68731 · BUS C 63605 · TOTAL 212453

REMARKS: 55.0 KAIC MINIMUM
30 POLE PANEL

PANEL LA

VOLTAGE 120 / 208 · PHASE 3 WIRE 4 · BUS AMPS 400 · PANEL LA · MAIN AMPS 400 · LOCATION ELECTRICAL 114 · MOUNTING SURFACE · MAIN LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
EXTERIOR RECEPT.	400			20	1	1	A	2	2	25			1893	HP-1
ELECTRICAL RECEPT.		600		20	1	3	B	4				1893		
CORRIDOR RECEPT.			400	20	1	5	C	6	2	40	2195			HP-2
TOILET RECEPT.	400			20	1	7	A	8					2195	
* EWC		1000		20	1	9	B	10	2	40		2195		HP-3
* EWC			1000	20	1	11	C	12			2195			
MECH RECEPT.	200			20	1	13	A	14	3	30			2717	AH-2
WATER RECEPT.		200		20	1	15	B	16				2717		
DOGS RECEPT.			600	20	1	17	C	18			2717			
BREAK COUNTER	400			20	1	19	A	20	3	30			2717	AH-3
BREAK COUNTER		200		20	1	21	B	22				2717		
BREAKROOM RECEPT.			1000	20	1	23	C	24			2717			
COPIER	1000			20	1	25	A	26	2	45			3378	AH-1
COPY RECEPT.		400		20	1	27	B	28				3378		
COPY RECEPT.			600	20	1	29	C	30	2	30	2247			HPU / ACU-1
* REFRIGERATOR	1000			20	1	31	A	32					2247	
* REFRIGERATOR		1000		20	1	33	B	34	2	30		2247		HPU / ACU-3
** FACP			500	20	1	35	C	36			2247			
TVSS				60	3	37	A	38	2	30			2250	WH-3
						39	B	40				2250		
						41	C	42	1	20	44			RC-2
TOTALS	3400	3400	4100								14362	17397	17397	

VOLT AMPS: BUS A 30877 · BUS B 28467 · BUS C 26862 · TOTAL 86206

REMARKS: 45.0 KAIC MINIMUM
SECTION 1 OF 2
FEED THRU LUGS
* PROVIDE GFCI BREAKER
** LABEL CIRCUIT PER NEC 2023 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER.

PANEL LA2

VOLTAGE 120 / 208 · PHASE 3 WIRE 4 · BUS AMPS 400 · PANEL LA2 · MAIN AMPS 400 · LOCATION ELECTRICAL 114 · MOUNTING SURFACE · MAIN LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
DISPATCH LIGHTS	960			20	1	1	A	2	1	20			800	DISPATCH STATION
DISPATCH LIGHTS		570		20	1	3	B	4	1	20		800		DISPATCH STATION
LIGHTS			600	20	1	5	C	6	1	20	800			DISPATCH STATION
LIGHTS	520			20	1	7	A	8	1	20			800	DISPATCH STATION
DISPATCH STATION		800		20	1	9	B	10	1	20		800		DISPATCH STATION
DISPATCH STATION			800	20	1	11	C	12	1	20	800			DISPATCH STATION
DISPATCH STATION	800			20	1	13	A	14	1	20			800	DISPATCH STATION
DISPATCH STATION		800		20	1	15	B	16	1	20		800		DISPATCH STATION
DISPATCH STATION			800	20	1	17	C	18	1	20	800			DISPATCH STATION
DISPATCH STATION	800			20	1	19	A	20	1	20			800	DISPATCH STATION
DISPATCH STATION		800		20	1	21	B	22	1	20		1500		GEN BATTERY CHRGR
DISPATCH STATION			800	20	1	23	C	24	2	40	3000			GEN HEATER
DISPATCH STATION	800			20	1	25	A	26					3000	
DISPATCH STATION		800		20	1	27	B	28	2					SPACE
SPARE				20	1	29	C	30						
SPARE				20	1	31	A	32	3					SPACE
SPARE				20	1	33	B	34						
SPARE				20	1	35	C	36						
SPARE				20	1	37	A	38	3					SPACE
SPARE				20	1	39	B	40						
SPARE				20	1	41	C	42						
TOTALS	3880	3770	3000								5400	3900	6200	

VOLT AMPS: BUS A 10080 · BUS B 7670 · BUS C 8400 · TOTAL 26150

REMARKS: 45.0 KAIC MINIMUM
SECTION 2 OF 2

PANEL LB

VOLTAGE 120 / 208 · PHASE 3 WIRE 4 · BUS AMPS 400 · PANEL LB · MAIN AMPS 400 · LOCATION ELECTRICAL 135 · MOUNTING SURFACE · MAIN LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
CORRIDOR RECEPT.	600			20	1	1	A	2	1	20			400	TECH STOR. RECEPT.
OFFICE RECEPT.		1000		20	1	3	B	4	1	20		400		TECH STOR. RECEPT.
OFFICE RECEPT.			1000	20	1	5	C	6	1	20	400			TECH STOR. RECEPT.
OFFICE RECEPT.	1000			20	1	7	A	8	1	20			400	TECH STOR. RECEPT.
OFFICE RECEPT.		1000		20	1	9	B	10	1	20		1000		OFFICE RECEPT.
DIRECTOR RECEPT.			800	20	1	11	C	12	1	20	1000			OFFICE RECEPT.
DIRECTOR RECEPT.	1000			20	1	13	A	14	1	20			600	OFFICE RECEPT.
OFFICE RECEPT.		1000		20	1	15	B	16	1	20		800		OFFICE RECEPT.
CORRIDOR RECEPT.			600	20	1	17	C	18	1	20	600			STORAGE RECEPT.
CORRIDOR RECEPT.	600			20	1	19	A	20	1	20			400	CORRIDOR COUNTER
CORRIDOR RECEPT.		600		20	1	21	B	22	1	20		400		CORRIDOR COUNTER
RESTROOM RECEPT.			400	20	1	23	C	24	1	20	1000			* REFRIGERATOR
* EWC	1000			20	1	25	A	26	1	20			200	LACTATION COUNTER
* EWC		1000		20	1	27	B	28	1	20		400		LACTATION RECEPT.
WATER RECEPT.			400	20	1	29	C	30	1	20	400			LAUNDRY RECEPT.
TB	500			20	1	31	A	32	2	30			2250	* DRYER
SPARE				20	1	33	B	34				2250		
MECH RECEPT.			400	20	1	35	C	36	1	20	1000			* WASHER
*** CORRIDOR LIGHTS	770			20	1	37	A	38	1	20			800	ROOF RECEPT.
OFFICE LIGHTS		500		20	1	39	B	40	1	20		600		EXTERIOR LIGHTS
OFFICE LIGHTS			610	20	1	41	C	42	1	20	560			EXTERIOR LIGHTS
RESTROOM LIGHTS	850			20	1	43	A	44	1	20			500	LIGHT CONTROL
TRAINING LIGHTS		1150		20	1	45	B	46	2	30		2250		SITE SIGN
LIGHTS			560	20	1	47	C	48			2250			
TVSS				60	3	49	A	50	2	30			2250	GATE
						51	B	52				2250		
						53	C	54	1	20				SPARE
TOTALS	6320	6250	4770								7210	10350	7800	

VOLT AMPS: BUS A 31240 · BUS B 31464 · BUS C 27343 · TOTAL 90047

REMARKS: 15.0 KAIC MINIMUM
54 POLE PANEL
SECTION 1 OF 2
FEED THRU LUGS
* PROVIDE GFCI BREAKER
*** PROVIDE HASP LOCK FOR BREAKER

PANEL LB2

VOLTAGE 120 / 208 · PHASE 3 WIRE 4 · BUS AMPS 400 · PANEL LB2 · MAIN AMPS 400 · LOCATION ELECTRICAL 135 · MOUNTING SURFACE · MAIN LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
FITNESS RECEPT.	400			20	1	1	A	2	3	40			2688	RTU-1
FITNESS RECEPT.		400		20	1	3	B	4				2688		
FITNESS RECEPT.			400	20	1	5	C	6			2688			
FITNESS RECEPT.	400			20	1	7	A	8	3	40			2880	RTU-2
FITNESS RECEPT.		400		20	1	9	B	10				2880		
FITNESS RECEPT.			400	20	1	11	C	12			2880			
FITNESS RECEPT.	400			20	1	13	A	14	3	40			2688	RTU-3
FITNESS RECEPT.		400		20	1	15	B	16				2688		
LOBBY RECEPT.			800	20	1	17	C	18			2688			
LOBBY RECEPT.	600			20	1	19	A	20	3	25			2016	RTU-4
ANTE COUNTER		400		20	1	21	B	22				2016		
ANTE RECEPT.			800	20	1	23	C	24			2016			
TRAINING RECEPT.	600			20	1	25	A	26	2	25			1748	HPU / ACU-2
TRAINING RECEPT.		800		20	1	27	B	28				1748		
TRAINING RECEPT.			600	20	1	29	C	30	1	20	1500			WH-1
TRAINING RECEPT.	800			20	1	31	A	32	1	20			1500	WH-2
ELECTRICAL RECEPT.		400		20	1	33	B	34	1	20		44		RC-1
ELECTRICAL RECEPT.			400	20	1	35	C	36	1	20	191			EF-1
ELECTRICAL RECEPT.	400			20	1	37	A	38	3					SPACE
SPARE				20	1	39	B	40						
SPARE				20	1	41	C	42						
SPARE				20	1	43	A	44	3					SPACE
SPARE				20	1	45	B	46						
SPARE				20	1	47	C	48						
SPARE				20	1	49	A	50	3					SPACE
SPARE				20	1	51	B	52						
SPARE				20	1	53	C	54						
TOTALS	3600	2800	3400								11963	12064	13520	

VOLT AMPS: BUS A 17120 · BUS B 14864 · BUS C 15363 · TOTAL 47347

REMARKS: 15.0 KAIC MINIMUM
SECTION 2 OF 2

PANEL LUPS

VOLTAGE 120 / 208 · PHASE 1 WIRE 3 · BUS AMPS 125 · PANEL LUPS · MAIN AMPS 125 · LOCATION ELECTRICAL 114 · MOUNTING SURFACE · MAIN BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
DISPATCH STATION	800		20	1	1	A	2	1	20		800	DISPATCH STATION
DISPATCH STATION		800	20	1	3	B	4	1	20	800		DISPATCH STATION
DISPATCH STATION	800		20	1	5	A	6	1	20		800	DISPATCH STATION
DISPATCH STATION		800	20	1	7	B	8	1	20	800		DISPATCH STATION
DISPATCH STATION	800		20	1	9	A	10	1	20		800	DISPATCH STATION
DISPATCH STATION		800	20	1	11	B	12	1	20	800		DISPATCH STATION
DISPATCH STATION	800		20	1	13	A	14	1	20		800	DISPATCH STATION
DISPATCH STATION		800	20	1	15	B	16	1	20	800		DISPATCH STATION
DISPATCH STATION	800		20	1	17	A	18	1	20		800	DISPATCH STATION
DISPATCH STATION		800	20	1	19	B	20	1	20	800		DISPATCH STATION
SUPERVISOR RECEPT.	1200		20	1	21	A	22	1	20			SPARE
DISPATCH RM RECEPT.		800	20	1	23	B	24	1	20			SPARE
DISPATCH RM RECEPT.	400		20	1	25	A	26	1	20			SPARE
SPACE				1	27	B	28	1	20			SPARE
SPACE				1	29	A	30	1	20			SPARE
SPACE				1	31	B	32	1				SPACE
SPACE				1	33	A	34	1				SPACE
SPACE				1	35	B	36	1				SPACE
TVSS			60	2	37	A	38	1				SPACE
					39	B	40	1				SPACE
TOTALS	5600	4800								4000	4000	

VOLT AMPS: BUS A 9600 · BUS B 8800 · TOTAL 18400

REMARKS: 29.0 KAIC MINIMUM
PROVIDE ISOLATED GROUND BUS IN ADDITION TO EQUIPMENT GROUND BUS

PANEL LUPS2

VOLTAGE 120 / 208 · PHASE 1 WIRE 3 · BUS AMPS 125 · PANEL LUPS2 · MAIN AMPS 125 · LOCATION ELECTRICAL 114 · MOUNTING SURFACE · MAIN BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
SERVER RECEPT.	400		20	1	1	A	2	2	30		2000	SERVER RECEPT.
SERVER RECEPT.		800	20	1	3	B	4			2000		
SERVER RECEPT.	800		20	1	5	A	6	2	30		2000	SERVER RECEPT.
SERVER RECEPT.		800	20	1	7	B	8			2000		
SERVER RECEPT.	800		20	1	9	A	10	1	20		600	CONFERENCE RECEPT.
SERVER RECEPT.		800	20	1	11	B	12	1	20	400		CONFERENCE RECEPT.
SERVER RECEPT.	800		20	1	13	A	14	1	20		400	CONFERENCE FLR BOX
SERVER RECEPT.		800	20	1	15	B	16	1	20			SPARE
SERVER RECEPT.	800		20	1	17	A	18	1	20			SPARE
SERVER RECEPT.		800	20	1	19	B	20	1	20			SPARE
SERVER RECEPT.	800		20	1	21	A	22	1	20			SPARE
SPACE				1	23	B	24	1	20			SPARE
SPACE				1	25	A	26	1				SPACE
SPACE				1	27	B	28	1				SPACE
SPACE				1	29	A	30	1				SPACE
SPACE				1	31	B	32	1				SPACE
SPACE				1	33	A	34	1				SPACE
SPACE				1	35	B	36	1				SPACE
TVSS			60	2	37	A	38	1				SPACE
					39	B	40	1				SPACE
TOTALS	4400	4000								4400	5000	

VOLT AMPS: BUS A 9400 · BUS B 8400 · TOTAL 17800

REMARKS: 29.0 KAIC MINIMUM
PROVIDE ISOLATED GROUND BUS IN ADDITION TO EQUIP GROUND BUS

MDP DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	212,533		
LIGHTING	8,250	1.25	10,313
HVAC	78,924	1.00	78,924
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	191	1.25	239
MOTOR LOAD	80	1.00	80
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	27,600	0.50	13,800
WATER HEATER	7,588	1.00	7,588
EQUIPMENT LOADS	79,900	1.00	79,900
DEMAND LOAD - VOLT-AMPERES			**200,843**
DEMAND LOAD - 208V 3-PHASE AMPS			**557.9**

SERVICE IS SIZED/RATED FOR 800 AMPS.

LA DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	86,286		
LIGHTING	2,650	1.25	3,313
HVAC	44,612	1.00	44,612
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	20	1.25	25
MOTOR LOAD	60	1.00	60
RECEPTACLE (FIRST 10,000 VA)	5,400	1.00	5,400
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	4,544	1.00	4,544
EQUIPMENT LOADS	29,000	1.00	29,000
DEMAND LOAD - VOLT-AMPERES			**86,954**
DEMAND LOAD - 208V 3-PHASE AMPS			**241.5**

PANEL IS SIZED/RATED FOR 400 AMPS.

LB DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	90,047		
LIGHTING	5,600	1.25	7,000
HVAC	34,312	1.00	34,312
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	191	1.25	239
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	18,400	0.50	9,200
WATER HEATER	3,044	1.00	3,044
EQUIPMENT LOADS	18,500	1.00	18,500
DEMAND LOAD - VOLT-AMPERES			**82,295**
DEMAND LOAD - 208V 3-PHASE AMPS			**228.6**

PANEL IS SIZED/RATED FOR 400 AMPS.

LUPS DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	18,400		
LIGHTING	0	1.25	0
HVAC	0	1.00	0
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	2,400	1.00	2,400
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
EQUIPMENT LOADS	16,000	1.00	16,000
DEMAND LOAD - VOLT-AMPERES			**18,400**
DEMAND LOAD - 120/240V 1-PHASE AMPS			**76.7**

PANEL IS SIZED/RATED FOR 125 AMPS.

LUPS2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	17,800		
LIGHTING	0	1.25	0
HVAC	0	1.00	0
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	1,400	1.00	1,400
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
EQUIPMENT LOADS	16,400	1.00	16,400
DEMAND LOAD - VOLT-AMPERES			**17,800**
DEMAND LOAD - 120/240V 1-PHASE AMPS			**74.2**

PANEL IS SIZED/RATED FOR 125 AMPS.

COM*check* Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Covington-Newton County 911 Center
Project Type: New Construction

Construction Site: Covington, GA
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Police	9624	0.87	8373
		Total Allowed Watts =	8373

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Police				
A: A: 2 FT. X 4 FT. TROFFER: LED Panel 41W:	1	54	41	2214
B: B: 2 FT. X 2 FT. TROFFER: LED Panel 36W:	1	21	35	735
C: C: 6 IN. DOWNLIGHT: LED Other Fixture Unit 25W:	1	66	25	1650
D: D: 1 FT. LINEAR SLOT: LED Other Fixture Unit 6.5W:	1	100	8	800
E: E: 24 IN. ROUND PENDANT: LED Other Fixture Unit 36W:	1	2	35	70
F: F: 1 FT. LINEAR LED: LED Other Fixture Unit 6.5W:	1	120	8	960
H: H: 2 FT. VANITY: LED Other Fixture Unit 28W:	1	2	30	60
J: J: 4 FT. LED STRIP: LED Other Fixture Unit 28W:	1	7	32	224
K: K: 1 FT. OF LED SLOT: LED Other Fixture Unit 6.5W:	1	38	6	228
		Total Proposed Watts =		6941

Interior Lighting PASSES: Design 17% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title · Signature · 02/17/26 — Date

Project Title: Covington-Newton County 911 Center · Report date: 02/17/26
Data filename: Z:\2025 CAD\M25002 Covington Newton 911 Ctr\WORKING DRAWINGS\ELEC\LIGHTING\Covingt 911 COMcheck.cck

COM*check* Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Covington-Newton County 911 Center
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: Covington, GA
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Perimeter (Walkway < 10 feet wide)	400 ft of	0.7	Yes	280
Main (Entry canopy)	200 ft2	0.25	Yes	50
Side Canopies (Entry canopy)	292 ft2	0.25	Yes	73
		Total Tradable Watts (a) =		403
		Total Allowed Watts =		403
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Perimeter (Walkway < 10 feet wide 400 ft of walkway length): Tradable Wattage				
OA: OA: WALL PACK: LED Other Fixture Unit 50W:	1	14	50	700
OB: OB: WALL PACK: LED Other Fixture Unit 25W:	1	3	25	75
Main (Entry canopy 200 ft2): Tradable Wattage				
OB: OB: WALL PACK: LED Other Fixture Unit 25W:	1	1	25	25
OC: OC: 11 IN. SURFACE MOUNT: LED Other Fixture Unit 16W:	1	1	15	15
Side Canopies (Entry canopy 292 ft2): Tradable Wattage				
OB: OB: WALL PACK: LED Other Fixture Unit 25W:	1	7	25	175
		Total Tradable Proposed Watts =		990

Exterior Lighting PASSES: Design 1% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title · Signature · 02/17/26 — Date

1

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

EDC ELECTRICAL DESIGN CONSULTANTS
ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M25002
edc1973.com

SUNBELT BUILDERS

SHEAR STRUCTURAL

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

ADDRESS TBD

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET
1	02/18/2026	BULLETIN #1

Drawn By TAW · **Checked By** JHM
Date 04/29/2025 · **Job No.** 24029

Sheet Title
ELECTRICAL SCHEDULES

Sheet No.
E-5.02

RELEASED FOR CONSTRUCTION

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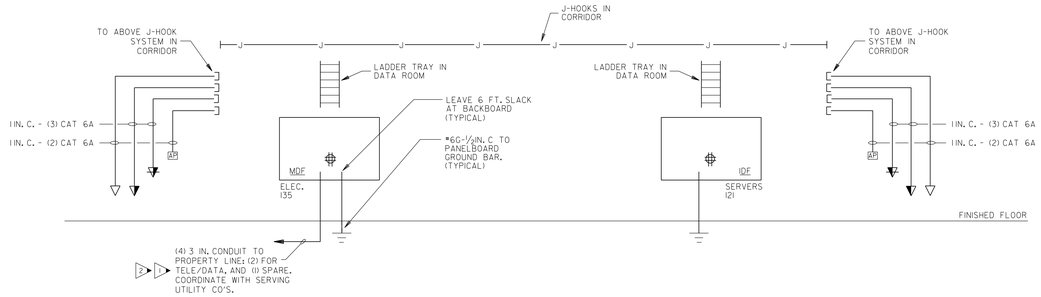
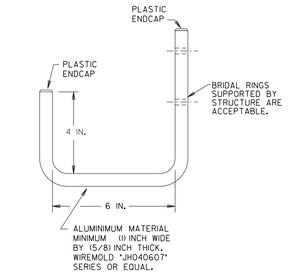


1 / E-6.01 TELEPHONE/DATA RISER

NOT TO SCALE

KEYED NOTES: (DETAIL 1/E-6.01 ONLY)

1. PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL. (1) CONDUIT FOR 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6A. (1) CONDUIT FOR 12 STRAND HYBRID FIBER. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT STREET WITH SERVING UTILITY COMPANIES.
2. PROVIDE (1) SPARE 3 IN. CONDUIT WITH PULL STRING FOR FUTURE. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.



2 / E-6.01 J-HOOK DETAIL

NOT TO SCALE

WIRE MANAGEMENT NOTES

NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS FOR LOW VOLTAGE CABLING.

B. ALL J- HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM CONDUIT SLEEVES.

C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

D. WHERE J-HOOKS ARE (2) ROWS; SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

F. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING 'NOT A CINCH' TYPE RATED VELCRO TIE WRAPS.

J. J-HOOKS SHALL SUPPORT CABLING FOR; FIRE ALARM, DATA, TELEPHONE, AND SECURITY.

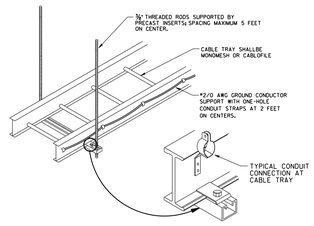
K. ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY CABLING.

L. SEE DETAIL - CONCRETE WALL PENETRATION, 8/E-5.01.

M. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 7/E-5.01.

N. WHERE J-HOOKS ARE REQUIRED ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.

O. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.



3 / E-6.01 LADDER CABLE TRAY

NOT TO SCALE

NOTE: LADDER TRAY ONLY IN DATA AND LOW VOLTAGE ROOMS. SEE DRAWINGS FOR LADDER TRAY SIZE.

GENERAL NOTES: (DATA CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.
   - D M XXX
     - XXX — JACK NUMBER
     - M — MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.
     - D OR V INDICATING VOICE OR DATA OUTLET.

   ALL PATCH PANELS AND 110 BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO 1/8IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G-3/4IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A 3/4IN.x4 FT.x8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES. SLEEVE THROUGH CORRIDOR WALL USING 4 IN.C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

BRAVO BLDG SET 03-23-2026

JERICHO design group
208 Pirkle Ferry Road, Suite C
Cumming, GA 30040

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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MACON OFFICE - PROJECT #: M25002
edc1973.com

SUNBELT BUILDERS

SHEAR STRUCTURAL

COVINGTON-NEWTON COUNTY 911 CENTER

CITY OF COVINGTON and NEWTON COUNTY

10796 HWY 36
COVINGTON, GA 30014

PRINT RECORD

No.	DATE	DESCRIPTION
	04/29/2025	PERMIT SET

Drawn By TAW
Checked By JHM
Date 04/29/2025
Job No. 24029

Sheet Title
ELECTRICAL DETAILS

Sheet No.
E-6.01

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