

SOUTH RIDGE CHURCH
2020 INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

ARCHITECT:
BRADFIELD RICHARDS RHODES AND
ASSOCIATES, ARCHITECTS, INC.
211 PERIMETER CENTER PARKWAY,
SUITE 1070
ATLANTA, GEORGIA 30346

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678.990.5656
TRHODES@BRR-ARCHITECTS.COM

STRUCTURAL ENGINEER:
CONSTRUCTION ENGINEERING SERVICES
PO BOX 1658
CLARKESVILLE, GA 30523

SAMUEL T. WILLIAMS, PE
706.768.2343
TIM.WILLIAMS077@GMAIL.COM

MECHANICAL / PLUMBING ENGINEER:
JHE ENGINEERS, LLC
5014 KINGSBRIDGE PASS
POWDER SPRINGS, GEORGIA 30127

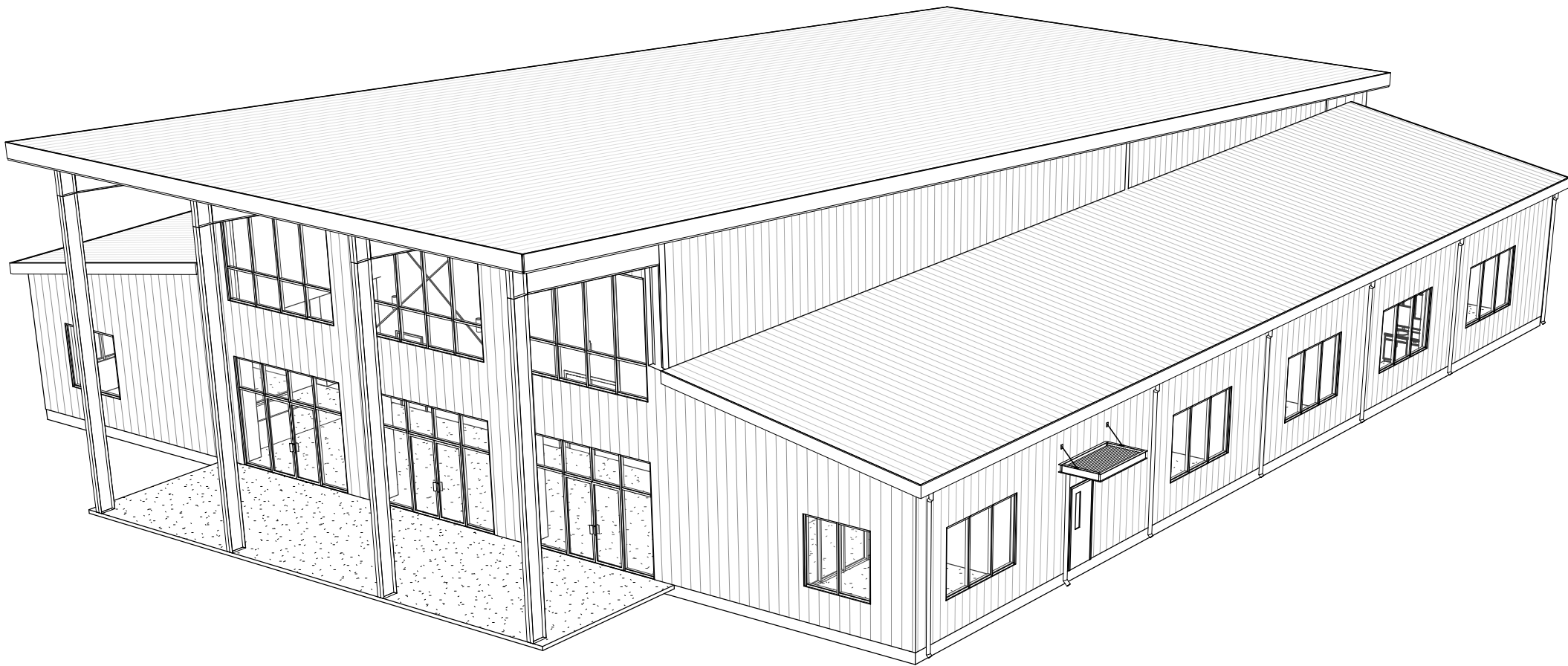
JUSTIN HARDY, PE
678.234.8156
JUSTIN@HLMPEP.COM

ELECTRICAL ENGINEER:
JHE ENGINEERS, LLC
5014 KINGSBRIDGE PASS
POWDER SPRINGS, GEORGIA 30127

GUIDO ALVAREZ, PE
954.864.2147
GUIDO@HLMPEP.COM

OWNER:
SOUTH RIDGE CHURCH
FREDERICKSBURG, VA

JEFF GEYER
469.713.7970



APPLICABLE CODES

BUILDING CODES APPLICABLE TO THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

BUILDING CODE:	2015 Virginia Construction Code
LIFE SAFETY:	NFPA 101 Life Safety 2012
FIRE CODE:	2015 Virginia Statewide Fire Prevention Code
ENERGY CODE:	2015 Virginia Energy Conservation Code
MECHANICAL CODE:	2015 Virginia Mechanical Code
ELECTRICAL CODE:	2014 National Electrical Code (NFPA 70)
PLUMBING:	2015 Virginia Plumbing Code
FUEL & GAS CODE:	2015 Virginia Fuel Gas Code
ACCESSIBILITY CODE:	2010 ADA Standards for Accessible Design

PROJECT DATA

OCCUPANCY CLASSIFICATION:	A-3
OCCUPANT LOAD:	424 TOTAL OCCUPANTS
BUILDING AREA:	11,000 GROSS SQUARE FEET

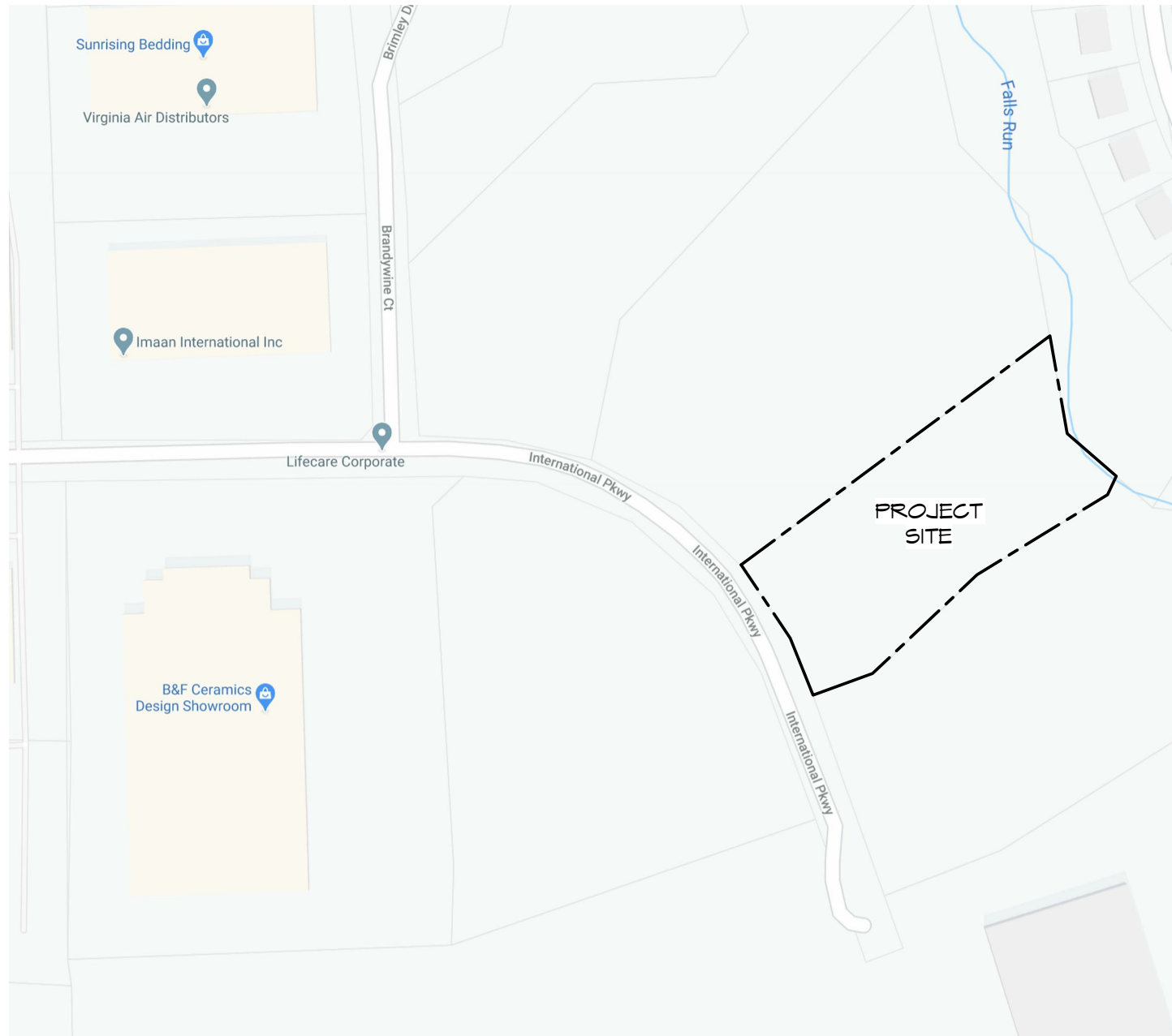
BUILDING HEIGHT AND AREA MODIFICATIONS:
UNLIMITED AREA

CONSTRUCTION TYPE:
TYPE IIIB - SPRINKLED

FIRE PROTECTION OF STRUCTURAL ELEMENTS:
NOT REQUIRED PER CONSTRUCTION TYPE

FIRE PROTECTION REQUIREMENTS:
NOT REQUIRED PER 2015 VIRGINIA CONSTRUCTION CODE 2015 TABLE 1020.1

LOCATION



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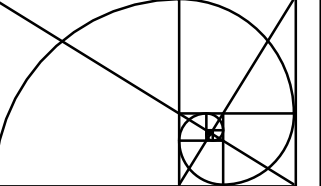
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No.	Description	Date

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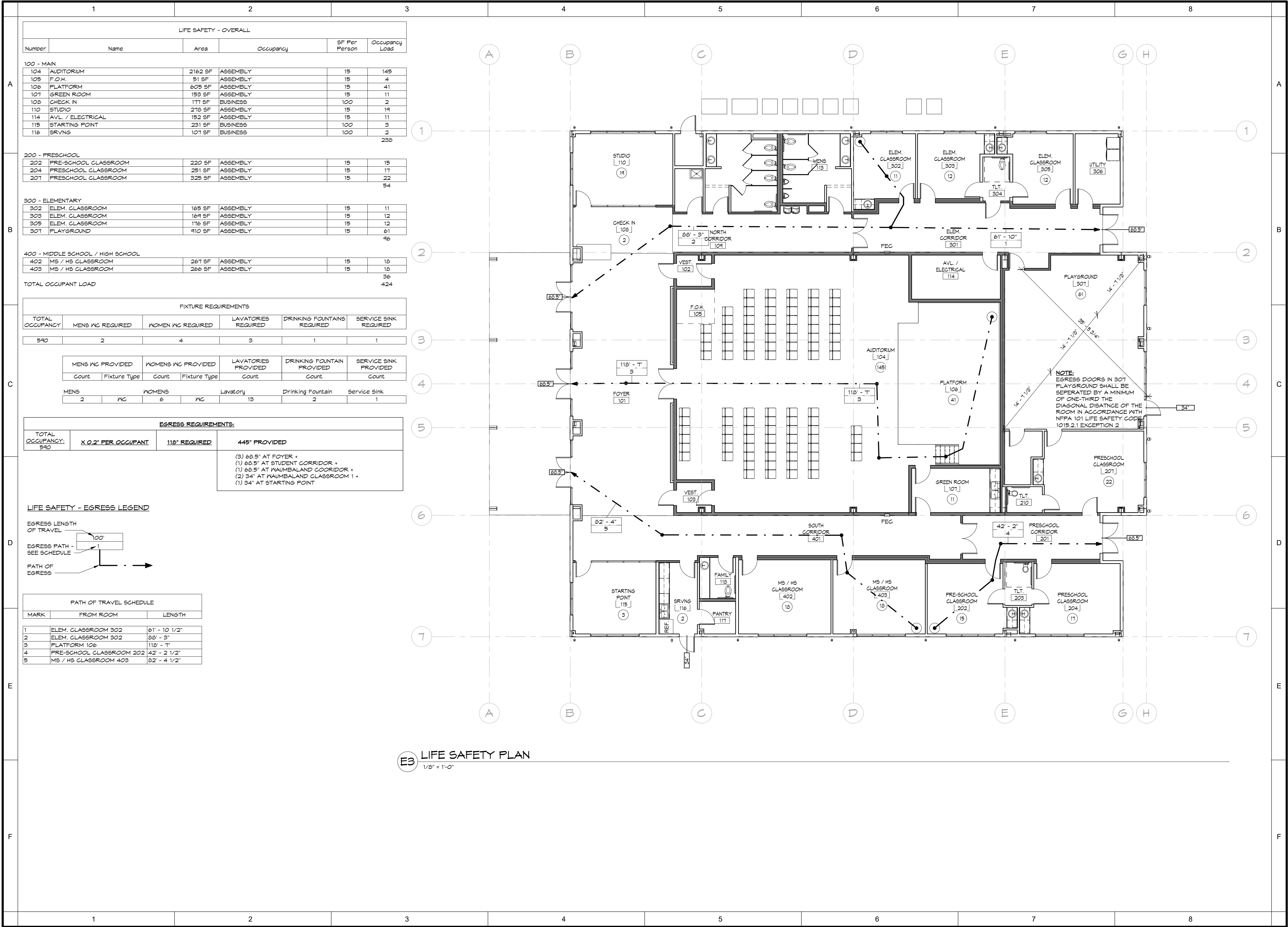
COVERSHEET
SOUTH RIDGE CHURCH
2020 INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

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G0



E3 LIFE SAFETY PLAN
1/8" = 1'-0"

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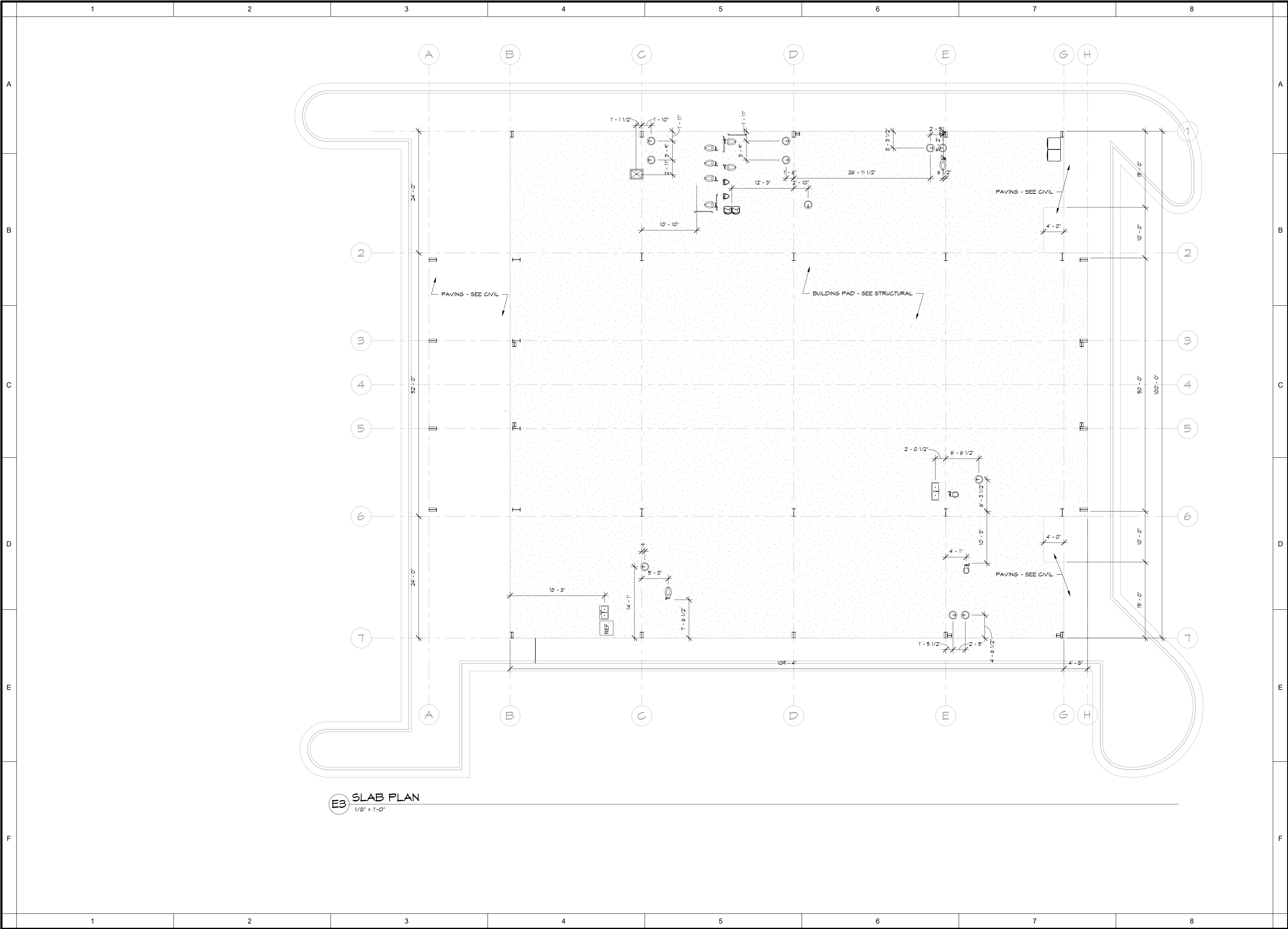
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L-1



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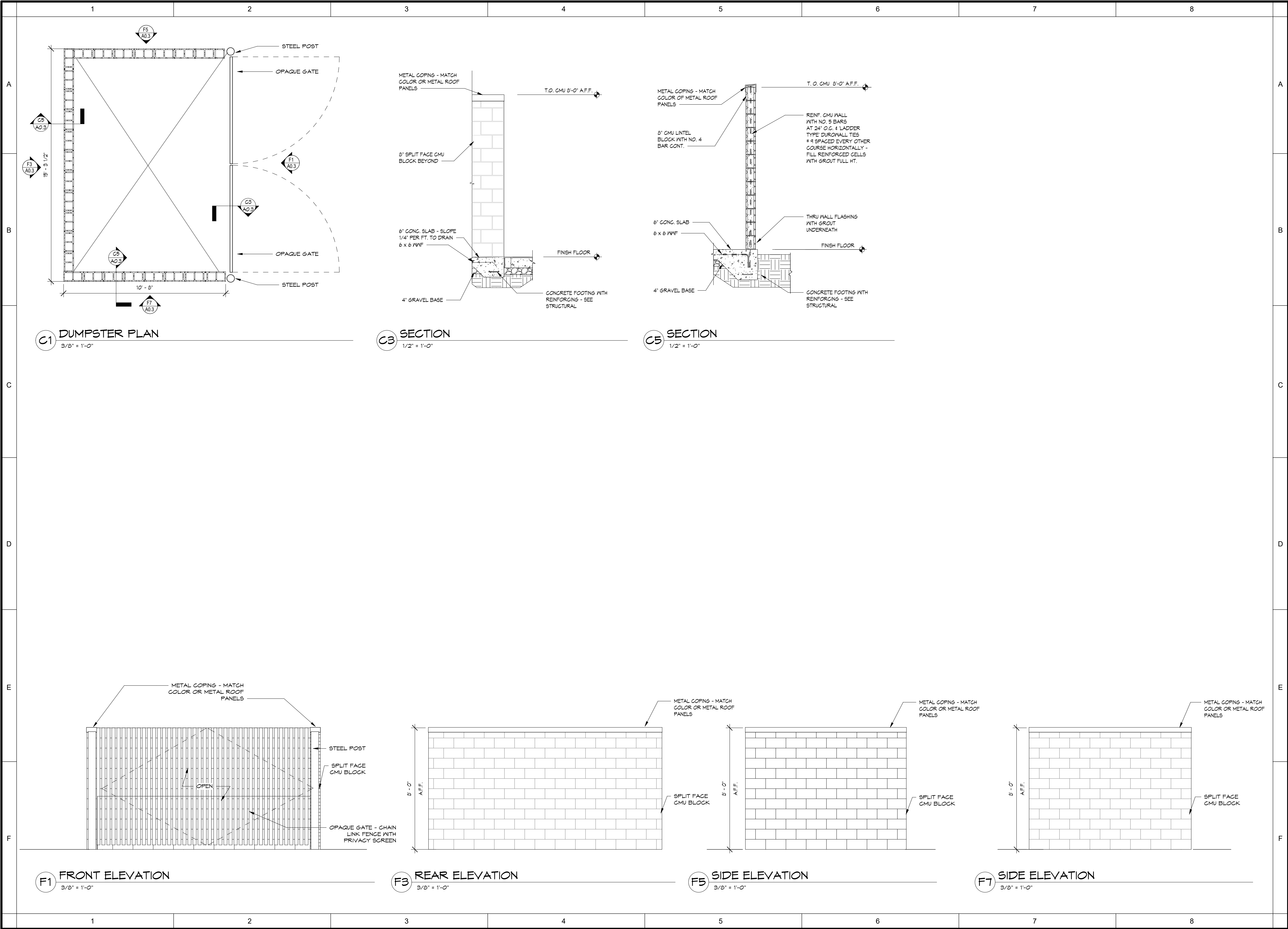
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SLAB PLAN	
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A0.2





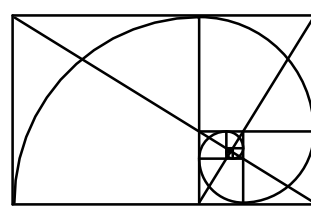
THOMAS J. RHODES
AIA, ARCHITECT

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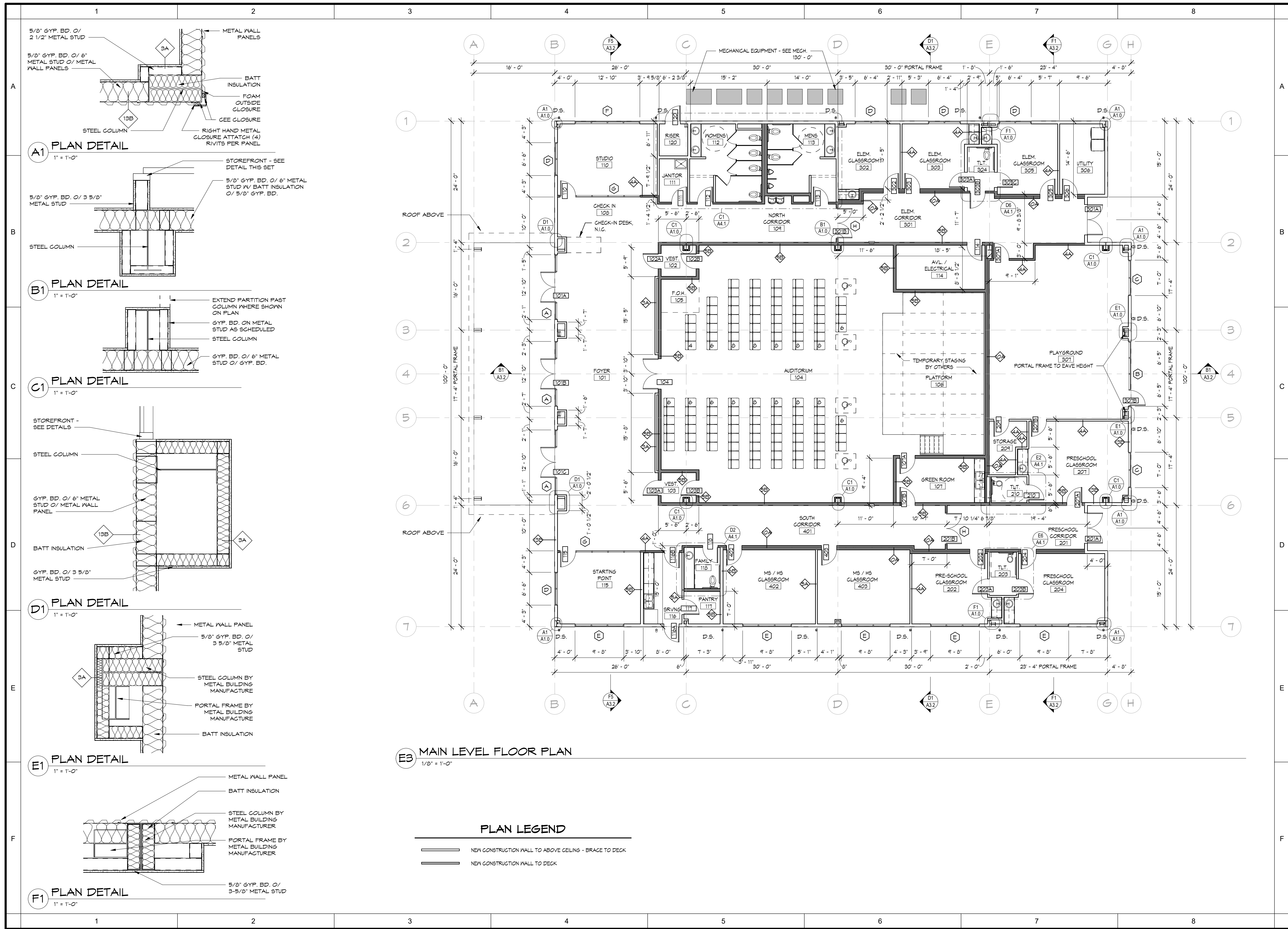
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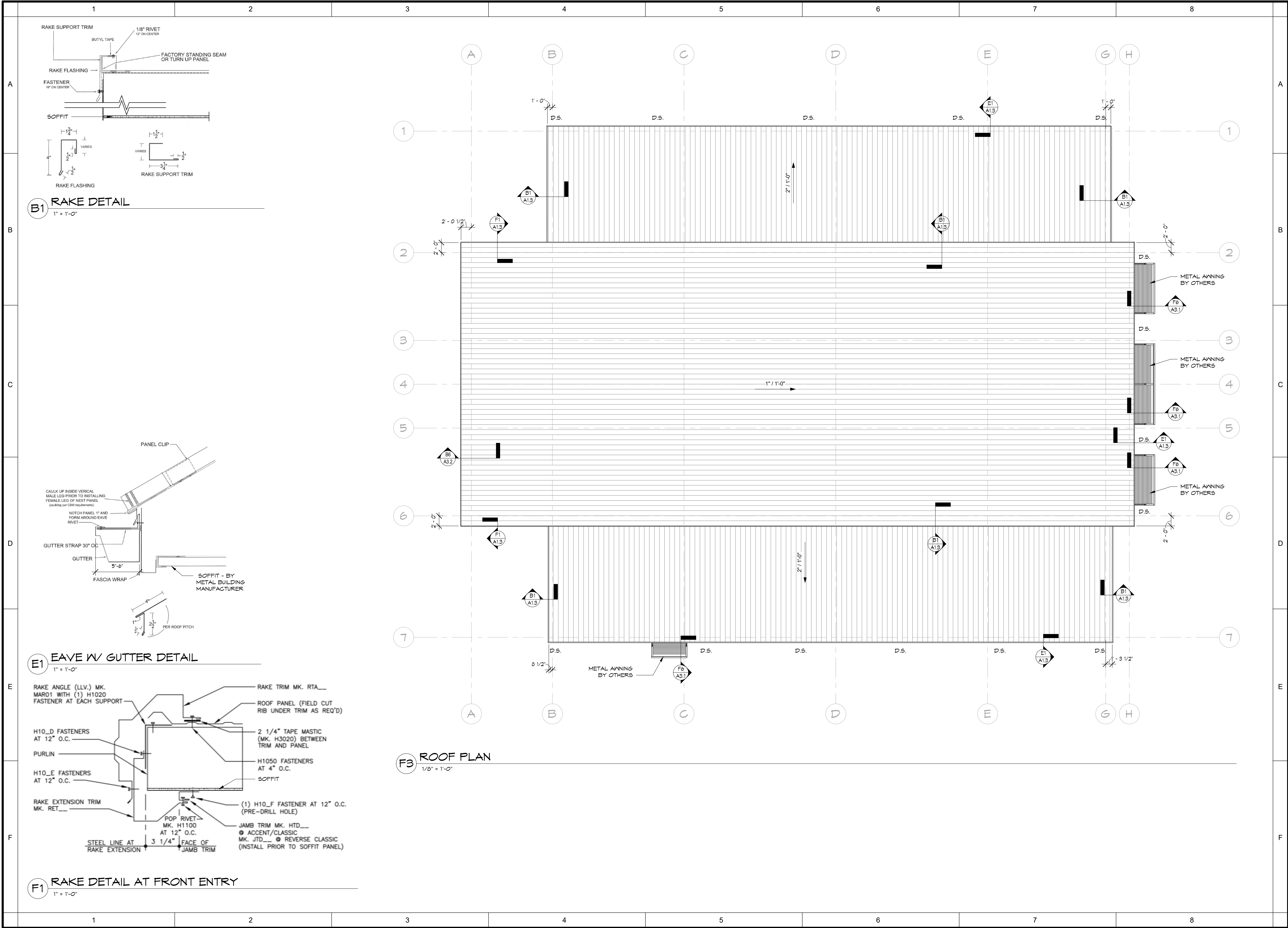
DUMPSTER DETAILS
SOUTH RIDGE CHURCH
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A0.3

A1.0





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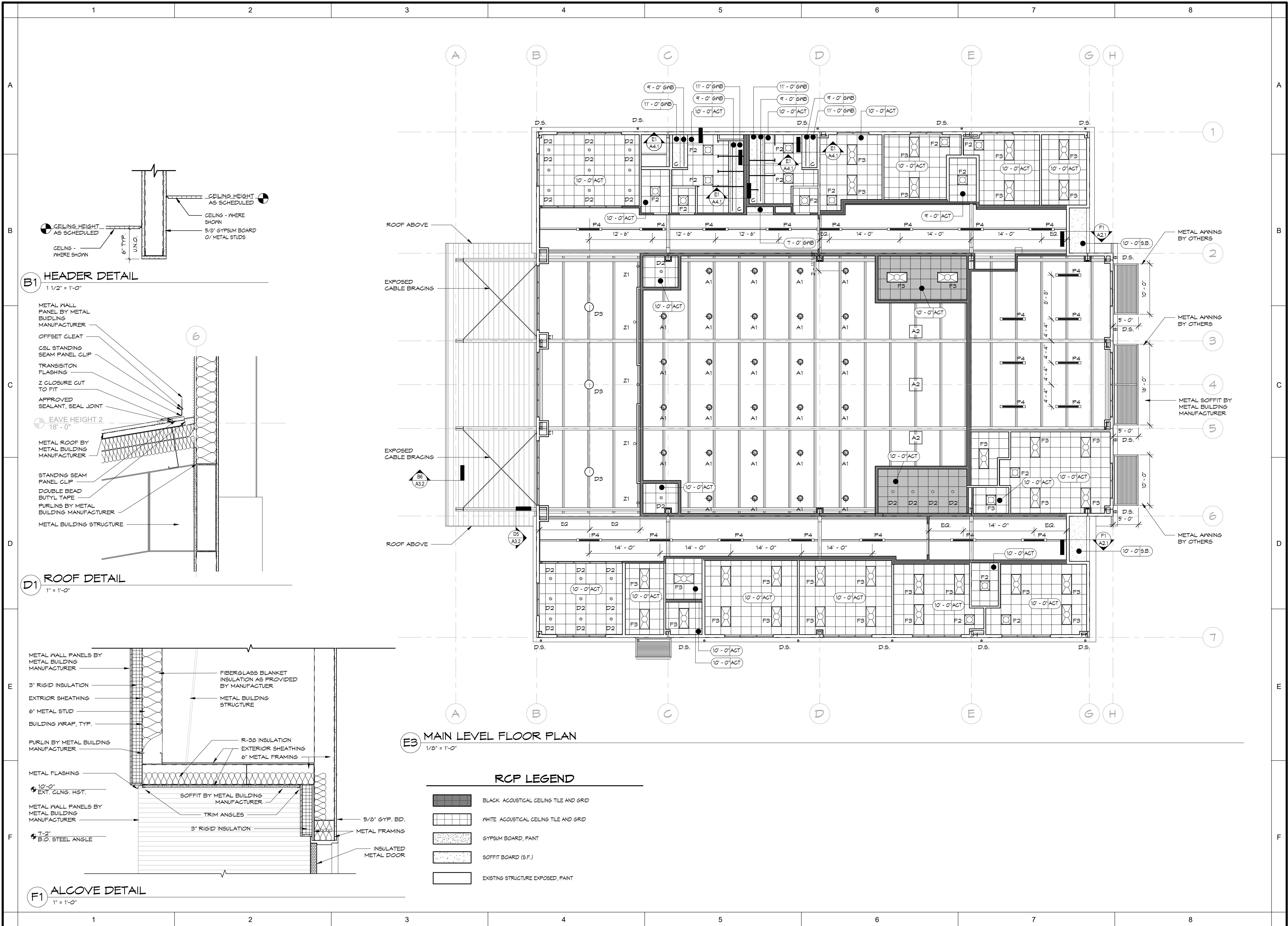
ROOF PLAN

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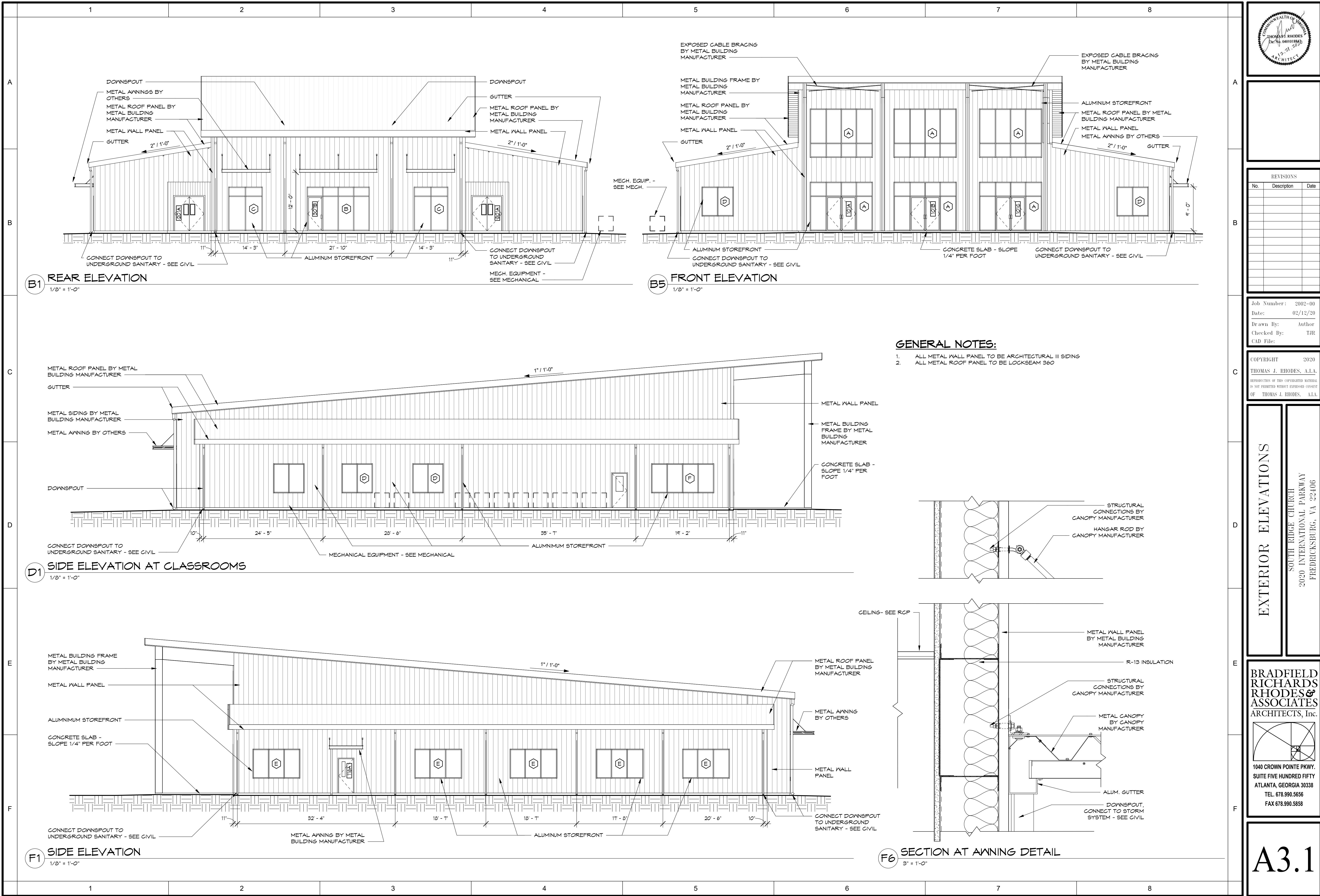
REFLECTED CEILING PLAN - MAIN LEVEL

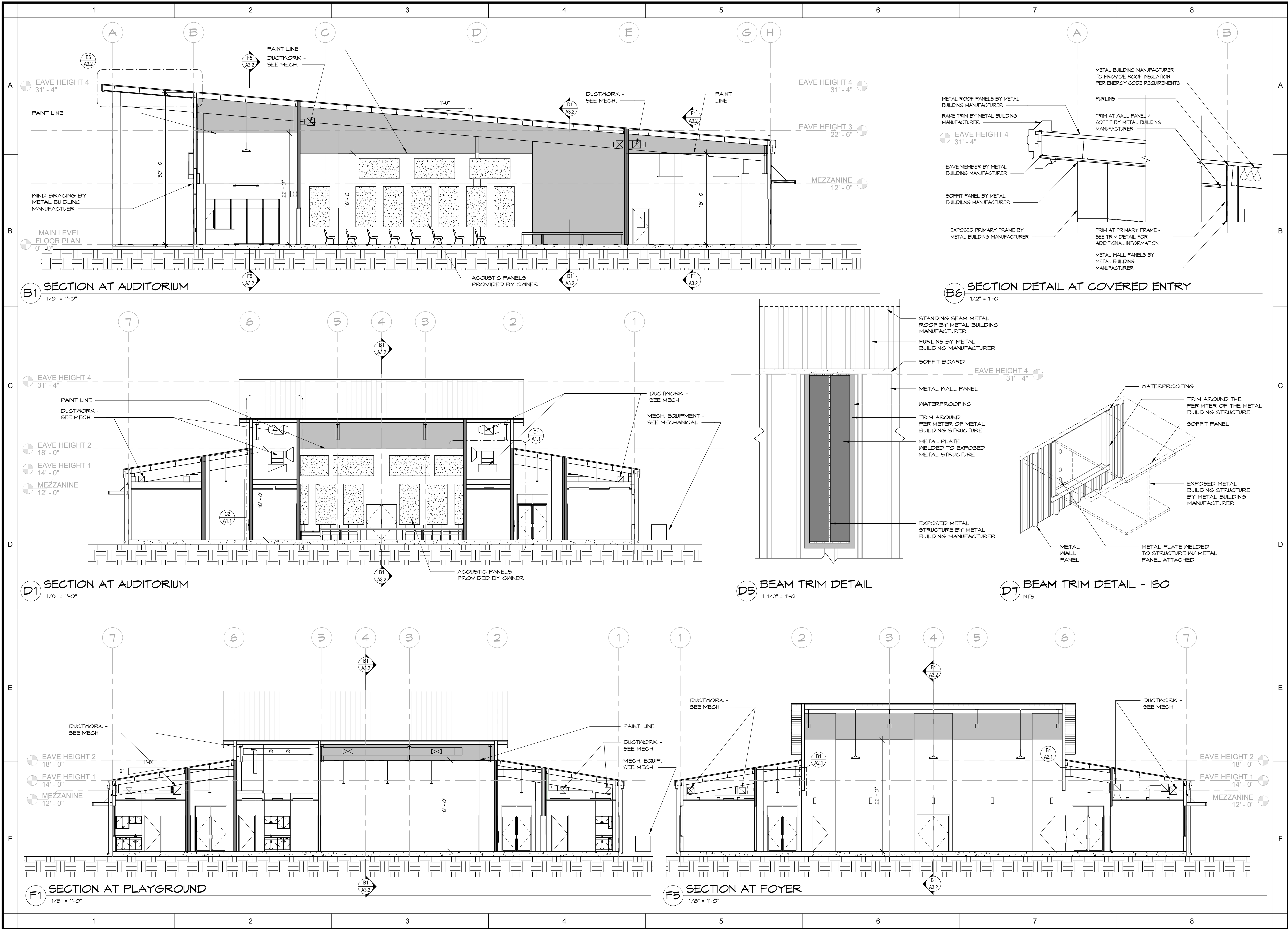
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A2.1







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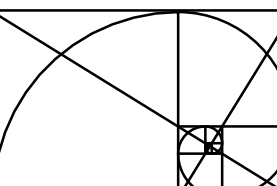
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BUILDING SECTIONS

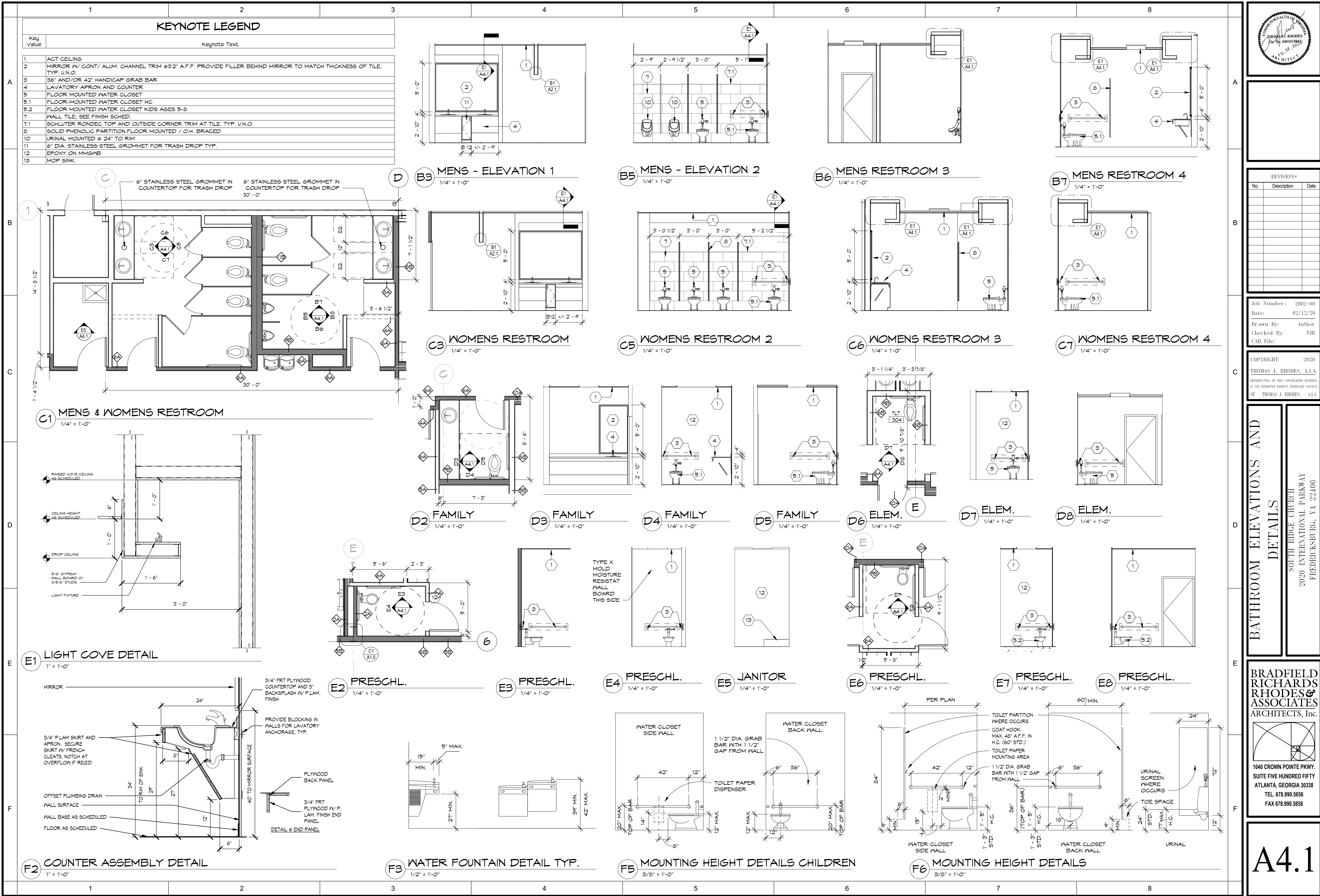
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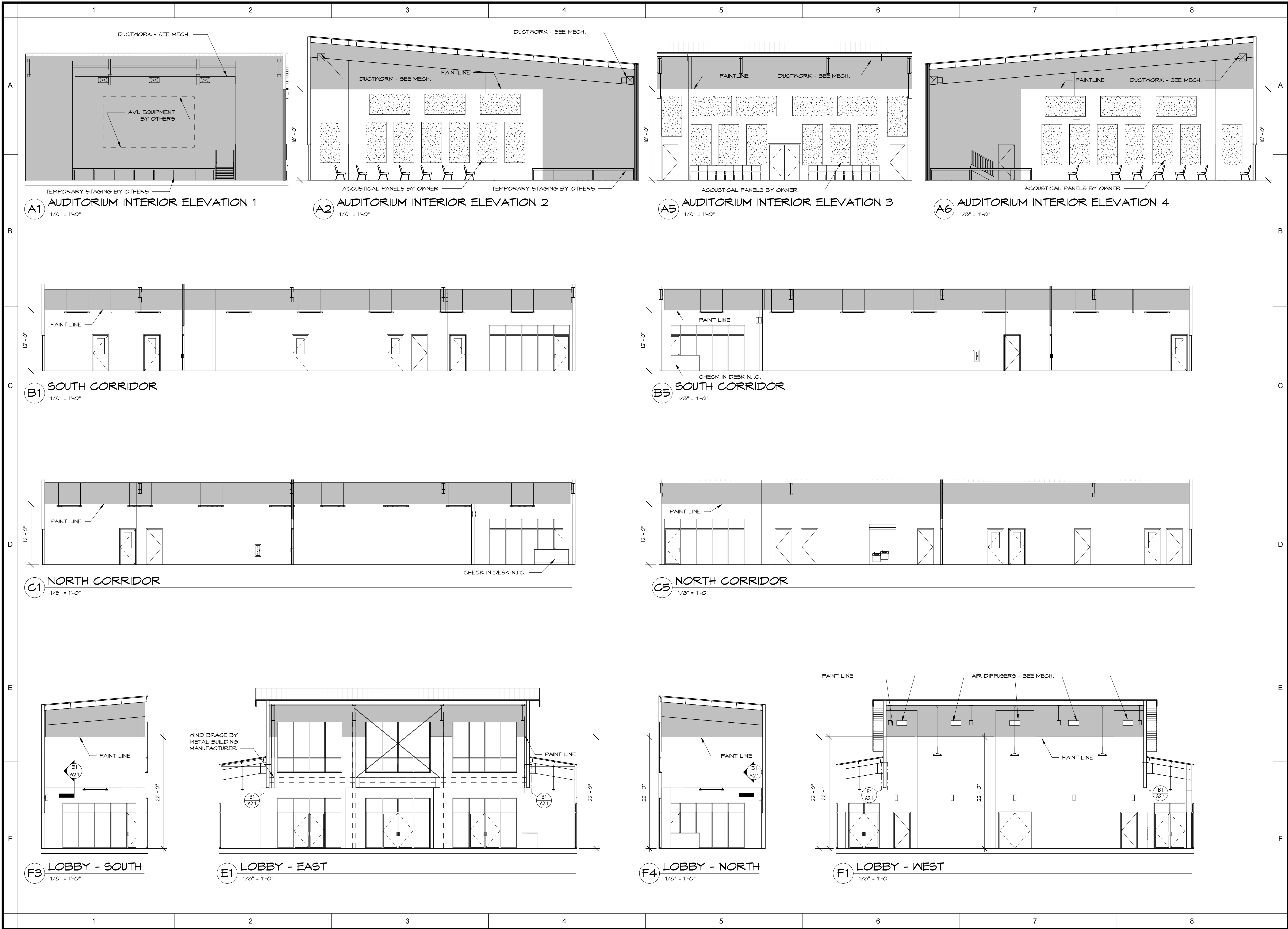
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A3.2





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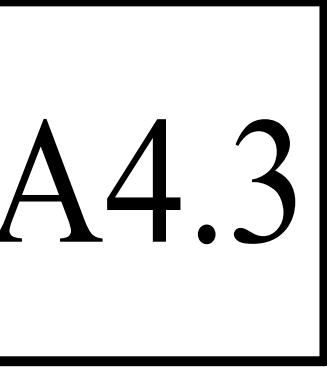
INTERIOR ELEVATIONS AND
DETAILS

SOUTH RIDGE CHURCH
2020 INTERNATIONAL PARKWAY
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A4.2



D1 PLAYGROUND
1/8" = 1'-0"

D2 PLAYGROUND
1/8" = 1'-0"

D4 **PLAYGROUND**
 $\frac{1}{8}'' = 1'-0''$

D5 PLAYGROUND
1/8" = 1'-0"

E1 GREEN ROOM
1/4" = 1'-0"

E2 SERVING
1/4" = 1'-0"

E4 PRESCHOOL CR.
1/4" = 1'-0"

E5 PRESCHOOL CR.
1/4" = 1'-0"

F2 PRESCHOOL CR.
1/4" = 1'-0"

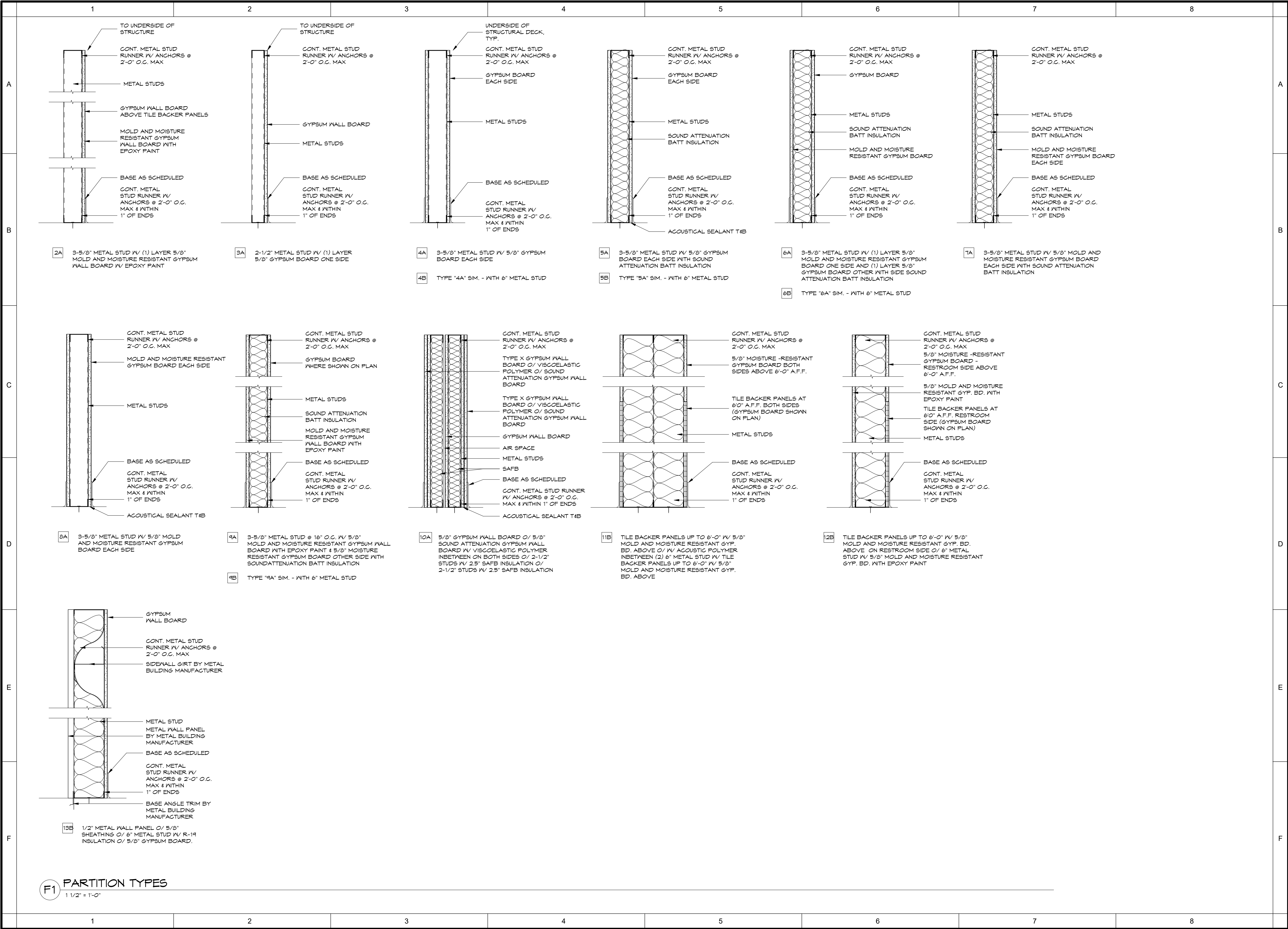
F4 ELEM. CR.
1/4" = 1'-0"

F5 ELEM. CR.
1/4" = 1'-0"

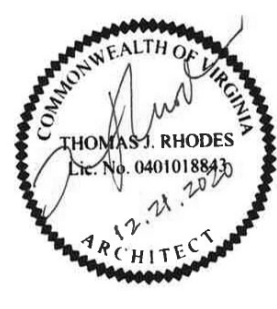
GENERAL NOTES:

1. ALL CASEWORK IS NOT IN CONTRACT AND SHALL BE PROVIDED SEPARATELY BY OWNER.
2. PROVIDE DOORS & FALSE FRONTS AT ALL SINKS. DO NOT PROVIDE SHELF BELOW SINK.

F7 CABINET SECTION TYP.
1" = 1'-0"



F1 PARTITION TYPES
1 1/2" = 1'-0"



THOMAS J. RHODES, AIA, ARCHITECT

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PARTITION TYPES
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A7.1

	1	2	3	4	5	6	7	8							
A	FINISH SCHEDULE														
	No.	ROOM NAME	MATERIAL	FLOOR			BASE			WALL			CEILING STYLE	FINISH COMMENTS	
				STYLE	COLOR	MANUFACTURER	MATERIAL	STYLE	COLOR	MANUFACTURER	FINISH	COLOR			MANUFACTURER
	100 - MAIN														
	101	FOYER	SEALED CONC. / WALK OFF CARPET	--- / WELCOME II	--- / BLACK CHOCOLATE	--- / SHAW	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT016 MINDFUL GRAY	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	WALKOFF CARPET AT EACH ENTRANCE TO FOYER
	102	VEST.	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	ACT	
	103	VEST.	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	ACT	
	104	AUDITORIUM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	105	F.O.H.	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	106	PLATFORM	---	---	---	---	---	---	40 BLACK	JOHNSONITE	PAINT	SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
B	107	GREEN ROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	108	CHECK IN	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	109	NORTH CORRIDOR	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	110	STUDIO	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	ACT	
	111	JANITOR	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	40 BLACK	JOHNSONITE	PAINT	SWT024 FUNCTIONAL GRAY	SHERWIN WILLIAMS	ACT	
	112	WOMENS	PORCELAIN TILE	LODGE	SABI SABI	DALTILE	PORCELAIN TILE	LODGE COVE	SABI SABI	DALTINE	PORCELAIN TILE/PAINT	VITALIA BLANCO VIO50 / SWT058 MAGNETIC GRAY	DALTILE / SHERWIN WILLIAMS	ACT	
	113	MENS	PORCELAIN TILE	LODGE	SABI SABI	DALTILE	PORCELAIN TILE	LODGE COVE	SABI SABI	DALTINE	PORCELAIN TILE/PAINT	VITALIA BLANCO VIO50 / SWT058 MAGNETIC GRAY	DALTILE / SHERWIN WILLIAMS	ACT	
	114	AVL. / ELECTRICAL	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	115	STARTING POINT	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	ACT	
	116	SRVNG	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT	
C	117	PANTRY	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT	
	118	FAMILY	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	76 CINAMMON	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT	
	120	RISER	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	200 - PRESCHOOL														
	201	PRESCHOOL CORRIDOR	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	202	PRE-SCHOOL CLASSROOM	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SW6495 GREAT FALLS	SHERWIN WILLIAMS	ACT	
	203	TLT.	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	76 CINAMMON	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT	
	204	PRESCHOOL CLASSROOM	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SW6495 GREAT FALLS	SHERWIN WILLIAMS	ACT	
	207	PRESCHOOL CLASSROOM	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SW6495 GREAT FALLS	SHERWIN WILLIAMS	ACT	
	209	STORAGE	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
210	TLT.	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	76 CINAMMON	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT		
D	300 - ELEMENTARY														
	301	ELEM. CORRIDOR	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	302	ELEM. CLASSROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	303	ELEM. CLASSROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	304	TLT.	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	76 CINAMMON	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	ACT	
	305	ELEM. CLASSROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	306	UTILITY	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	40 BLACK	JOHNSONITE	PAINT	SWT024 FUNCTIONAL GRAY	SHERWIN WILLIAMS	ACT	
	307	PLAYGROUND	LVT	NATURAL CREATIONS ARBOR ART TPO27	WEATHERED OAK MEDIUM	ARMSTRONG	RESILIENT	4" STANDARD	76 CINAMMON	JOHNSONITE	PAINT	SWT058 MAGNETIC GRAY	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
	400 - MIDDLE SCHOOL / HIGH SCHOOL														
	401	SOUTH CORRIDOR	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT018 DOVETAIL	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE	
402	MS / HS CLASSROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE		
403	MS / HS CLASSROOM	SEALED CONC.	---	---	---	RESILIENT	4" STANDARD	29 MOON ROCK	JOHNSONITE	PAINT	SWT048 URBANE BRONZE / SW6991 BLACK MAGIC	SHERWIN WILLIAMS	EXPOSED TO STRUCTURE		
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No.	Description	Date

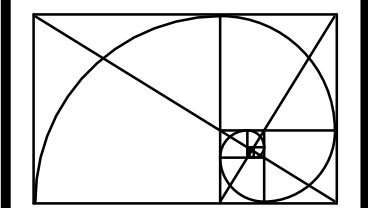
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FINISH SCHEDULE

SOUTH RIDGE CHURCH
2020 INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

BRADFIELDRICHARDS
RHODES &
ASSOCIATES
ARCHITECTS, Inc.



1040 CROWN POINTE PKWY.
SUITE FIVE HUNDRED FIFTY
ATLANTA, GEORGIA 30338
TEL. 678.990.5656
FAX 678.990.5858

A9.1



E3 MAIN LEVEL FINISH PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE WITH FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
2. GRAPHICAL REPRESENTATION OF FLOOR FINISHES SHALL BE USED FOR PLACEMENT DESIGNATION PURPOSES ONLY AND SHOULD NOT BE USED AS A MEANS AND METHOD OF INSTALLATION.

FLOOR FINISHES LEGEND

	CARPET 1
	CARPET 2
	CARPET 3
	CARPET 4
	WALK-OFF CARPET
	LUXURY VINYL TILE (LVT)
	TILE
	STAINED/SEALED CONCRETE

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FINISH PLAN

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	1	2	3	4	5	6	7	8																																																																														
A	<div>STRUCTURAL NOTES:</div> <div>1. DESIGN IN ACCORDANCE WITH USBC 2015, LATEST VIRGINIA BUILDING CODE AND STAFFORD COUNTY CODE. THIS IS A TYPE III OCCUPANCY DESIGN, WITH APPROPRIATE COEFFICIENTS</div> <div>2. DESIGN LOADS ARE AS FOLLOWS: ROOF DEAD LOAD 15 PSF CEILING DEAD LOAD 10 PSF ELEVATED FLOOR DEAD LOAD 20.3 PSF GRADE FLOOR DEAD LOAD 60 PSF FLOOR LIVE LOAD (Equivalent Uniformly Distributed Load) ASSEMBLY 100 PSF (Movable Seats) - INCLUDES LOBBY) CLASSROOMS 40 PSF CORRIDOR ABOVE 1st FLOOR 80 PSF CORRIDOR 1st FLOOR 100 PSF RESTROOMS / TOILETS 60 PSF SNOW LOAD GROUND P_u 5 PSF IMPORTANCE FACTOR I_{snow} 1.0 EXPOSURE FACTOR C_e 1.0 THERMAL FACTOR C_t 1.0 ROOF SNOW COEFFICIENT 1.0 WIND LOAD WIND VELOCITY (3 SEC GUST) 115 MPH IMPORTANCE FACTOR I_{wind} 1.0 EXPOSURE CATEGORY C ENCLOSURE ENCLOSED SEISMIC LOAD <table><tr><td>Date</td><td>12/8/2020, 2:53:36 PM</td></tr><tr><td>Design Code Reference Document</td><td>ASCE7-10</td></tr><tr><td>Risk Category</td><td>II</td></tr><tr><td>Site Class</td><td>D - Stiff Soil</td></tr><tr><td>Type</td><td>Value</td><td>Description</td></tr><tr><td>SS</td><td>0.144</td><td>MCER ground motion. (for 0.2 second period)</td></tr><tr><td>S1</td><td>0.055</td><td>MCER ground motion. (for 1.0s period)</td></tr><tr><td>SMS</td><td>0.23</td><td>Site-modified spectral acceleration value</td></tr><tr><td>SM1</td><td>0.133</td><td>Site-modified spectral acceleration value</td></tr><tr><td>SDS</td><td>0.153</td><td>Numeric seismic design value at 0.2 second SA</td></tr><tr><td>SD1</td><td>0.089</td><td>Numeric seismic design value at 1.0 second SA</td></tr><tr><td>SDC</td><td>B</td><td>Seismic design category</td></tr><tr><td>Fa</td><td>1.6</td><td>Site amplification factor at 0.2 second</td></tr><tr><td>Fv</td><td>2.4</td><td>Site amplification factor at 1.0 second</td></tr><tr><td>PGA</td><td>0.072</td><td>MCEG peak ground acceleration</td></tr><tr><td>FPGA</td><td>1.6</td><td>Site amplification factor at PGA</td></tr><tr><td>PGAM</td><td>0.116</td><td>Site modified peak ground acceleration</td></tr><tr><td>TL</td><td>8</td><td>Long-period transition period in seconds</td></tr><tr><td>SsRT</td><td>0.144</td><td>Probabilistic risk-targeted ground motion. (0.2 second)</td></tr><tr><td>SsUH</td><td>0.161</td><td>Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration</td></tr><tr><td>SsD</td><td>1.5</td><td>Factored deterministic acceleration value. (0.2 second)</td></tr><tr><td>S1RT</td><td>0.055</td><td>Probabilistic risk-targeted ground motion. (1.0 second)</td></tr><tr><td>S1UH</td><td>0.062</td><td>Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.</td></tr><tr><td>S1D</td><td>0.6</td><td>Factored deterministic acceleration value. (1.0 second)</td></tr><tr><td>PGAd</td><td>0.5</td><td>Factored deterministic acceleration value. (Peak Ground Acceleration)</td></tr><tr><td>CRS</td><td>0.895</td><td>Mapped value of the risk coefficient at short periods</td></tr><tr><td>CR1</td><td>0.899</td><td>Mapped value of the risk coefficient at a period of 1 s</td></tr></table></div> <div>3. MATERIALS ARE TO BE AS FOLLOWS: ANCHOR BOLTS ASTM A50 CONCRETE f'_c= 4000 PSI 28 DAYS U.N.O. EXPANSION BOLTS HILTI KWIK BOLTS OR EQUAL REINFORCEMENT ASTM A615 WELDED WIRE FABRIC ASTM185 VAPOR BARRIER USE ARCH. STD. (10 MIL) POLY MORTAR TYPE IV PER ASTM C270 4. A SAFE SOIL BEARING CAPACITY IS PER SOILS REPORT INCLUDED IN THIS DESIGN CRITERIA. NOTIFY ARCHITECT/ENGINEER OF ANY VALUES BELOW THIS FIGURE. TESTING BEARING CAPACITY IS REQUIRED 5. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI315-LATEST ED. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" 6. CONCRETE PROTECTION FOR REINFORCEMENT: CONCRETE CAST AGAINST EARTH-----3" CONCRETE EXPOSED TO WEATHER OR EARTH: #5 BAR OR SMALLER-----1 1/2" #6 BAR OR LARGER-----2" 7. UNLESS NOTED, LAP HORIZONTAL BARS 30 DIAMETERS AND ALL VERTICAL BARS 24 DIAMETERS. 8. HORIZONTAL REINFORCEMENT IN SLAB TURNDOWNS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS 9. WELDING TO BE BY QUALIFIED WELDERS USING E70XX ELECTRODES AND IN ACCORDANCE W/ AWS D1.1 10. GENERAL CONTRACTOR SHALL PERFORM IN PLACE SOIL DENSITY TESTING AT FOOTINGS AND CONCRETE TESTING AND SHALL MAKE RESULTS OF THESE TESTS AVAILABLE ON JOB SITE 11. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL SITE PLAN 12. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY BRACING OF ALL WORK DURING CONSTRUCTION 14. PRINCIPLE OPENINGS, DEPRESSIONS, CURBS, RAMPS, ETC. ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF THESE ITEMS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. SMALLER OPENINGS, PIPE SLEEVES, REVEALS, RECESSES, GROOVES, ETC. MAY NOT APPEAR ON THESE DRAWINGS AND MUST BE COORDINATED WITH ALL DISCIPLINES. OPENINGS THROUGH BEAMS, GIRDERS AND/OR COLUMNS SHALL BE VERIFIED BY THE ARCHITECT. 15. ALL LEVELING GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. EXPOSED GROUT SHALL BE NON-STAINING 16. MINIMUM REQUIRED REBAR SPLICE LAP LENGTH IN CMU WALLS IS 48 BAR DIAMETERS</div>								Date	12/8/2020, 2:53:36 PM	Design Code Reference Document	ASCE7-10	Risk Category	II	Site Class	D - Stiff Soil	Type	Value	Description	SS	0.144	MCER ground motion. (for 0.2 second period)	S1	0.055	MCER ground motion. (for 1.0s period)	SMS	0.23	Site-modified spectral acceleration value	SM1	0.133	Site-modified spectral acceleration value	SDS	0.153	Numeric seismic design value at 0.2 second SA	SD1	0.089	Numeric seismic design value at 1.0 second SA	SDC	B	Seismic design category	Fa	1.6	Site amplification factor at 0.2 second	Fv	2.4	Site amplification factor at 1.0 second	PGA	0.072	MCEG peak ground acceleration	FPGA	1.6	Site amplification factor at PGA	PGAM	0.116	Site modified peak ground acceleration	TL	8	Long-period transition period in seconds	SsRT	0.144	Probabilistic risk-targeted ground motion. (0.2 second)	SsUH	0.161	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration	SsD	1.5	Factored deterministic acceleration value. (0.2 second)	S1RT	0.055	Probabilistic risk-targeted ground motion. (1.0 second)	S1UH	0.062	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.	S1D	0.6	Factored deterministic acceleration value. 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COMMONWEALTH OF VIRGINIA

SAMUEL T. WILLIAMS

Lic. No. 45440

PROFESSIONAL ENGINEER

12-23-20

REVISIONS

No.	Description	Date

Job Number: 2002-00

Date: 03/01/20

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Checked By: TJR

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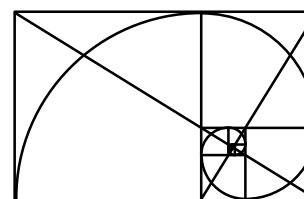
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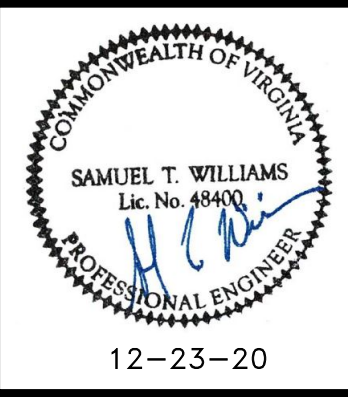
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SUITE FIVE HUNDRED FIFTY
ATLANTA, GEORGIA 30338
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FAX 678.990.5858

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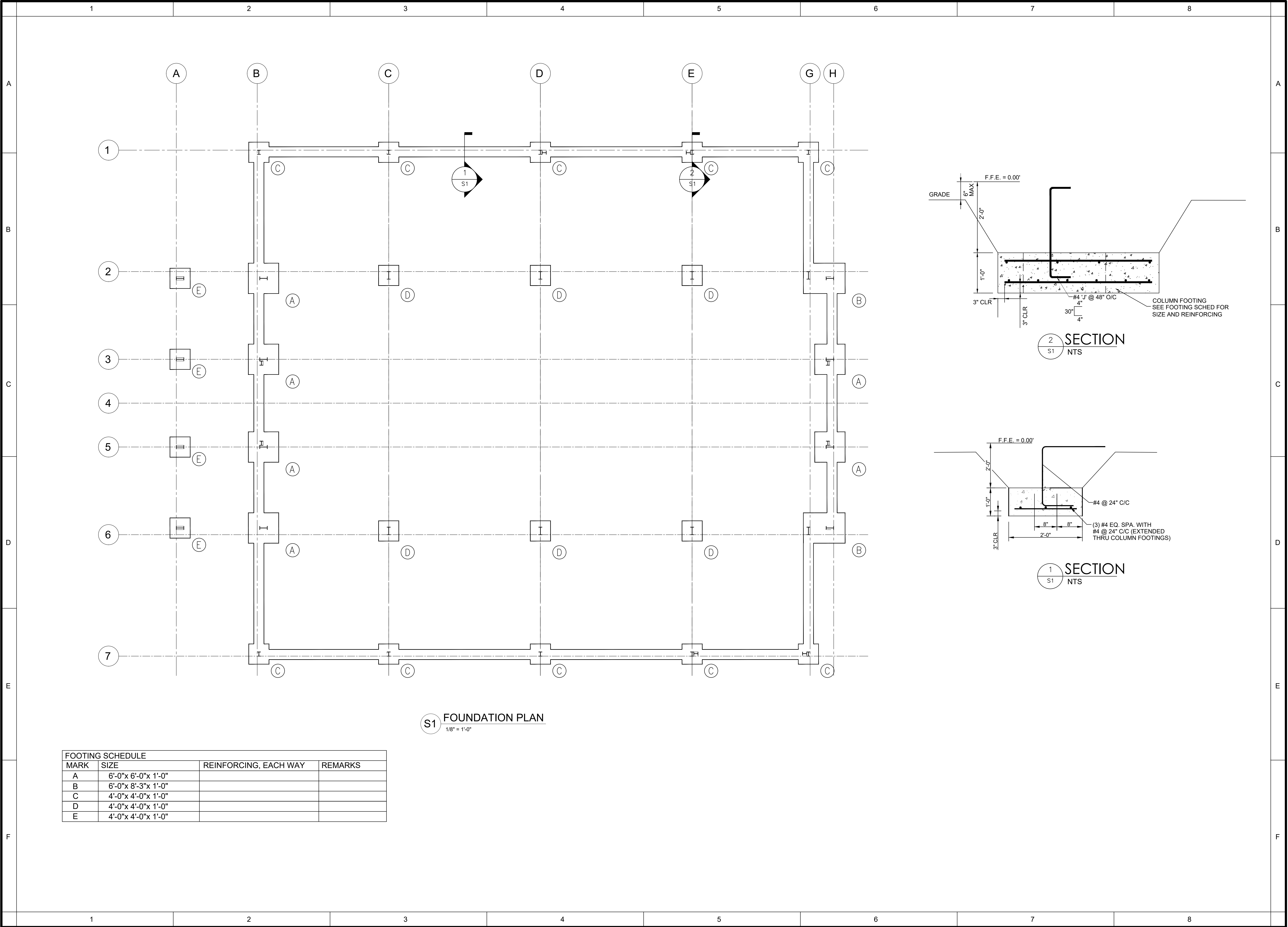
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COMMONWEALTH OF VIRGINIA

SAMUEL T. WILLIAMS

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FOUNDATION PLAN

SOUTH RIDGE

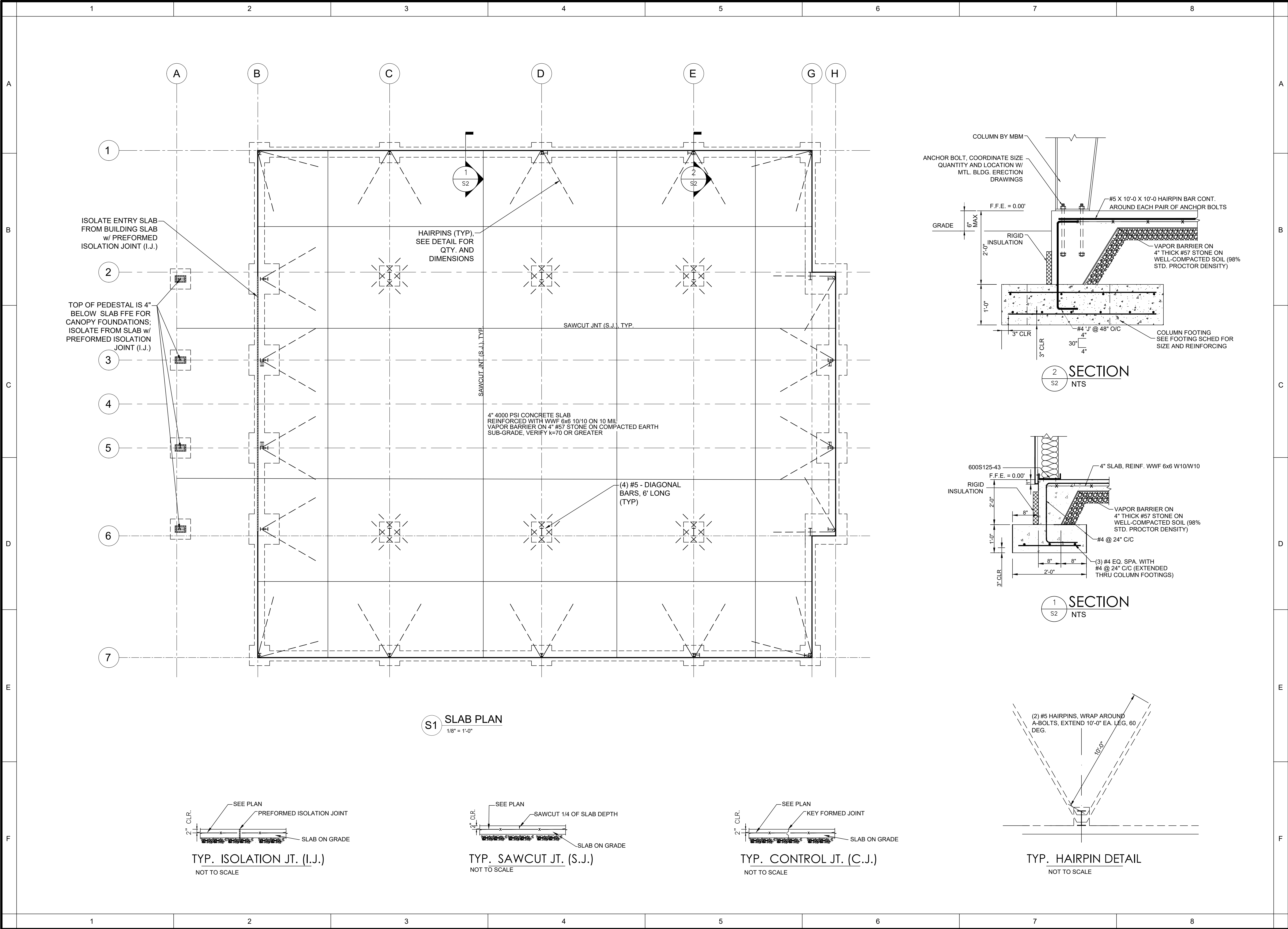
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PROFESSIONAL ENGINEER

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SLAB PLAN

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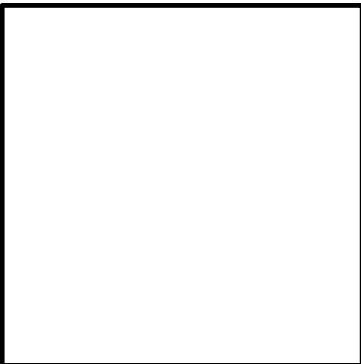
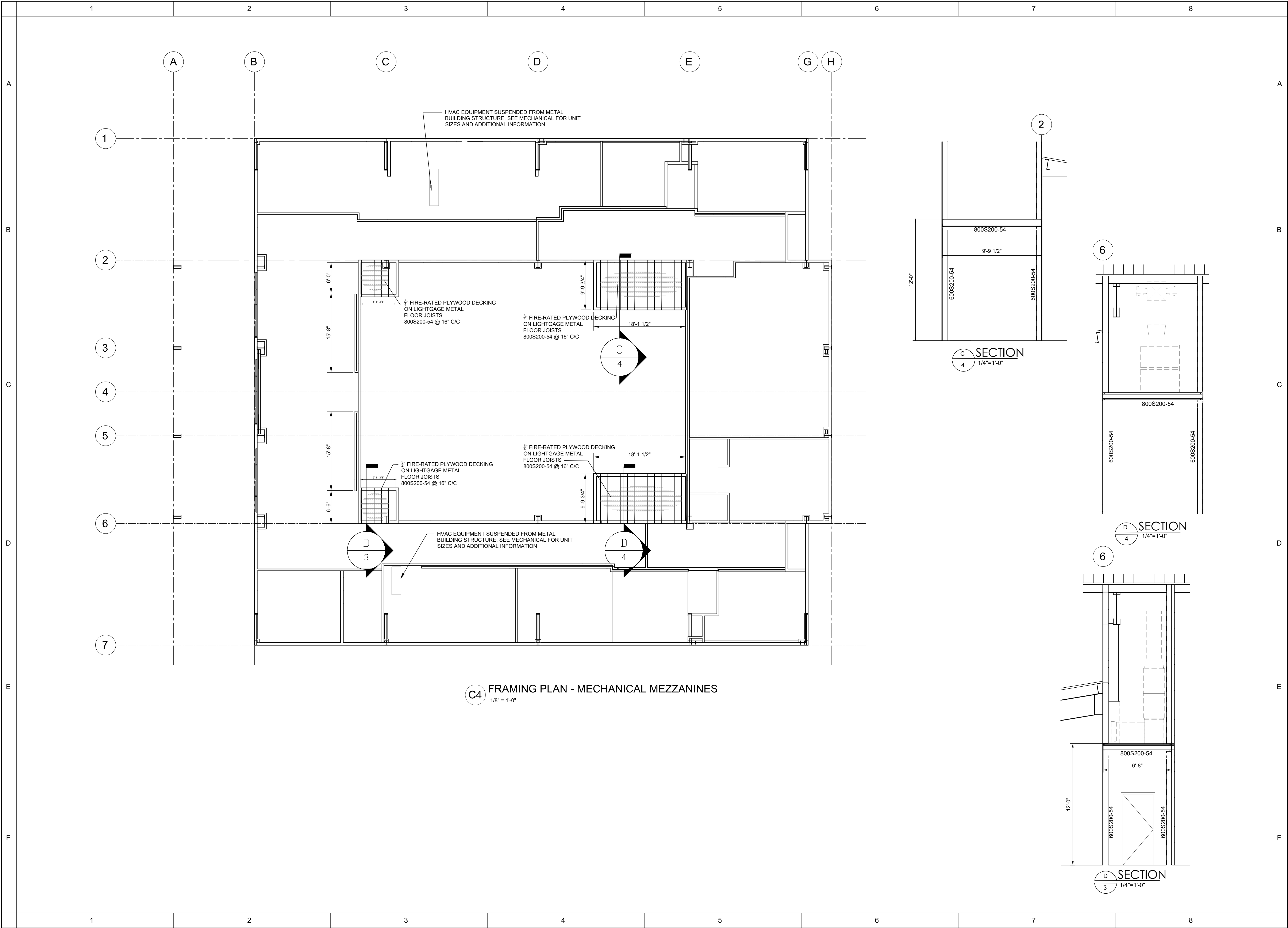
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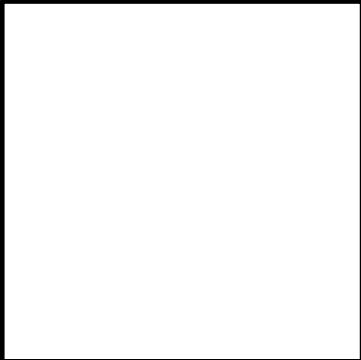
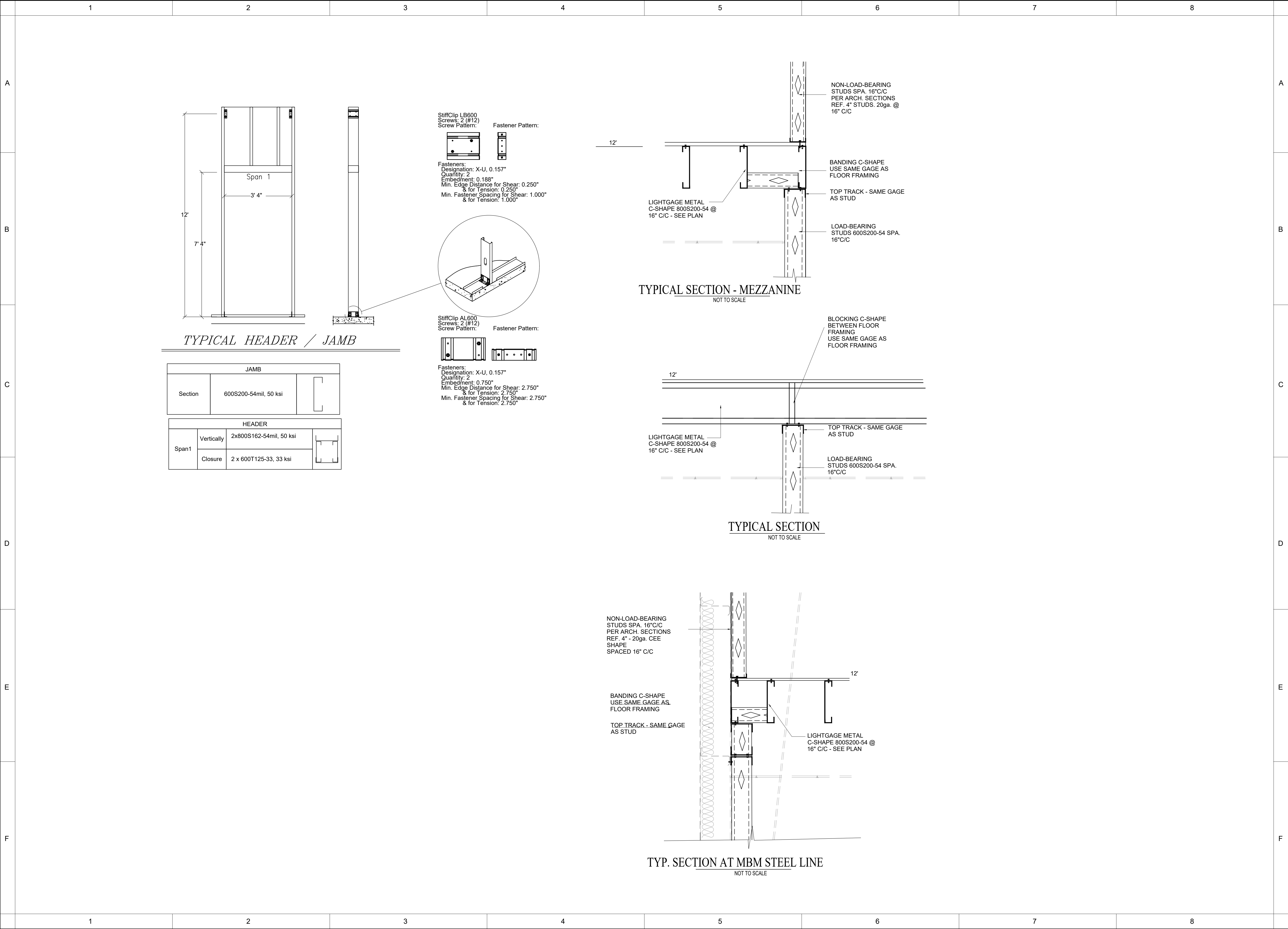
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FRAMING PLAN - MEZZANINES

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MEZZANINE FRAMING SECTIONS

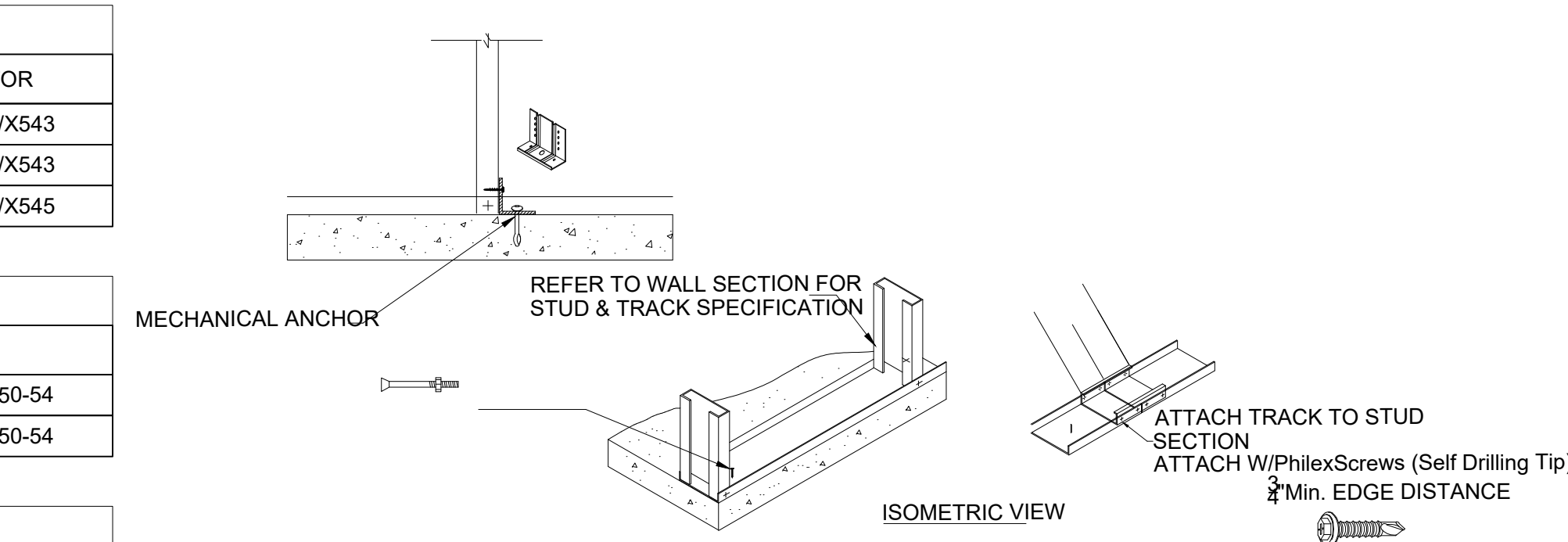
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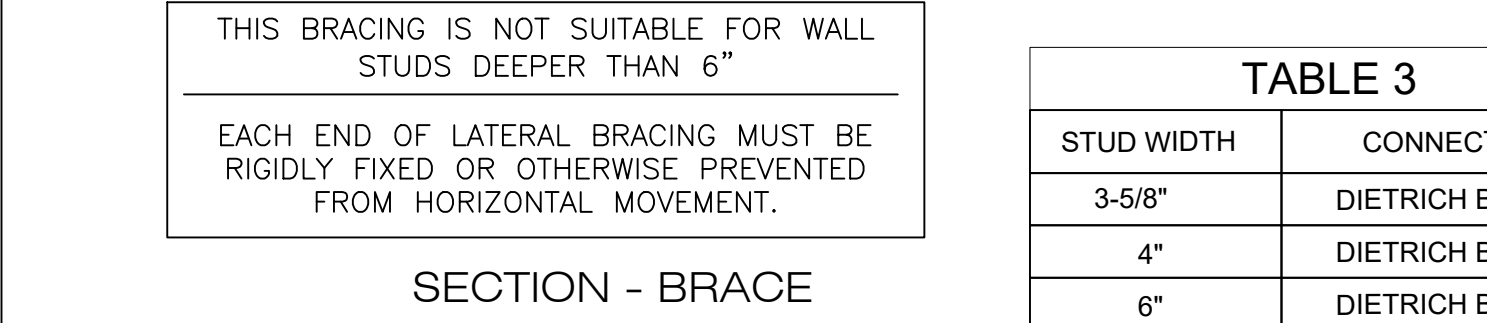
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F

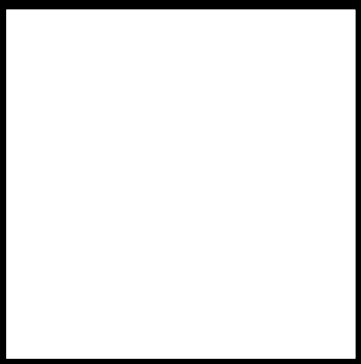
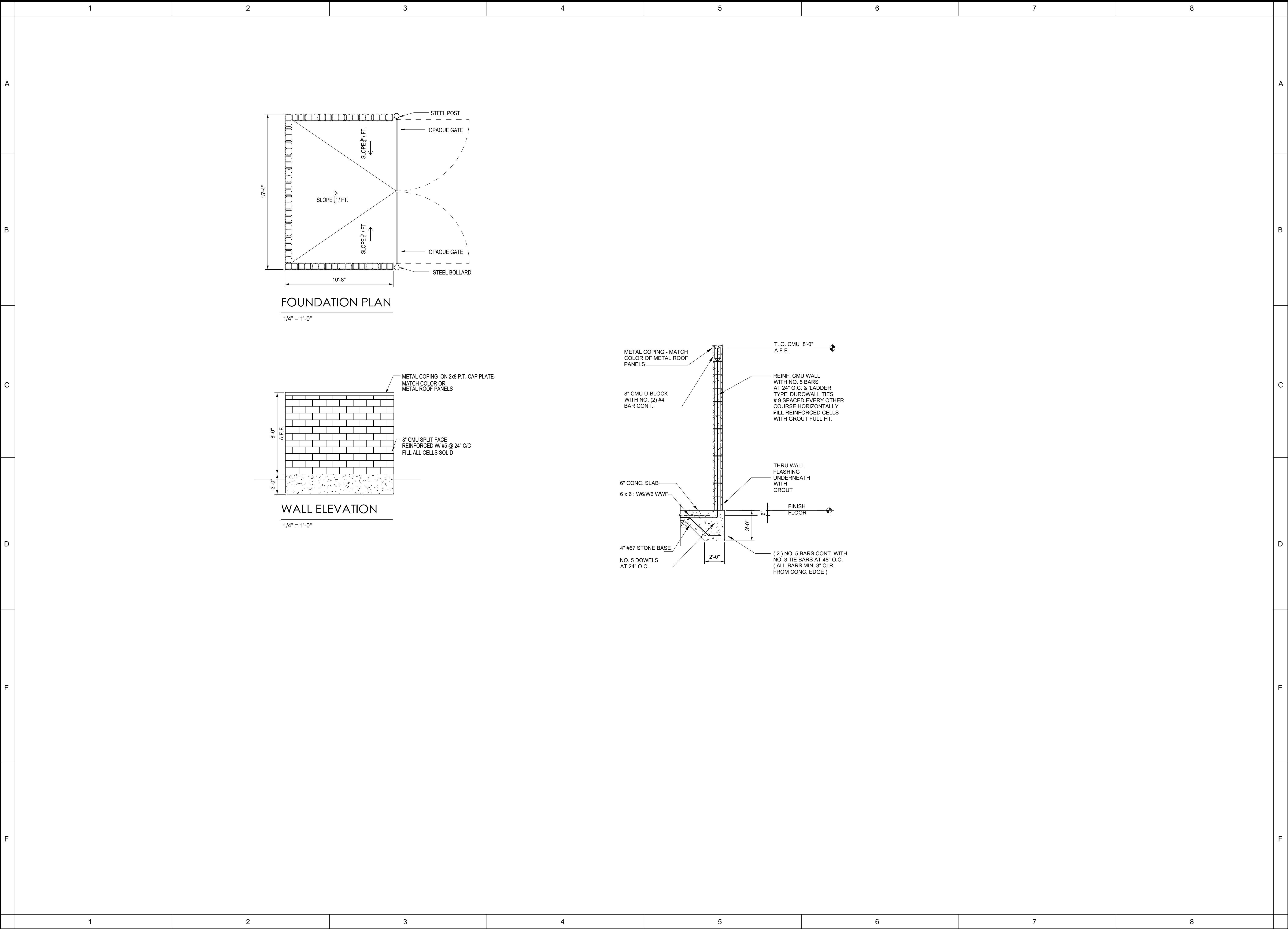


STUD WIDTH	CONNECTOR
3-5/8"	DIETRICH B543
4"	DIETRICH B543
6"	DIETRICH B545



1

S4.0



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DUMPSTER FOUNDATION
AND FRAMING

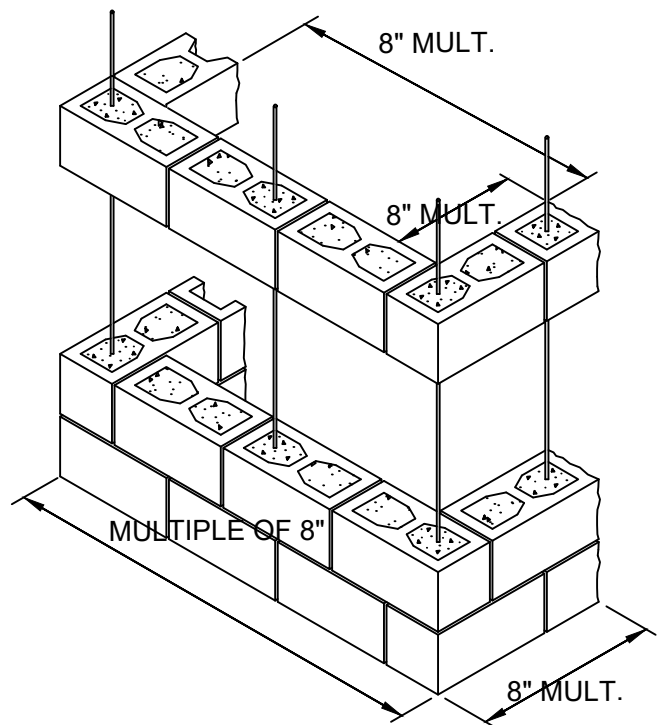
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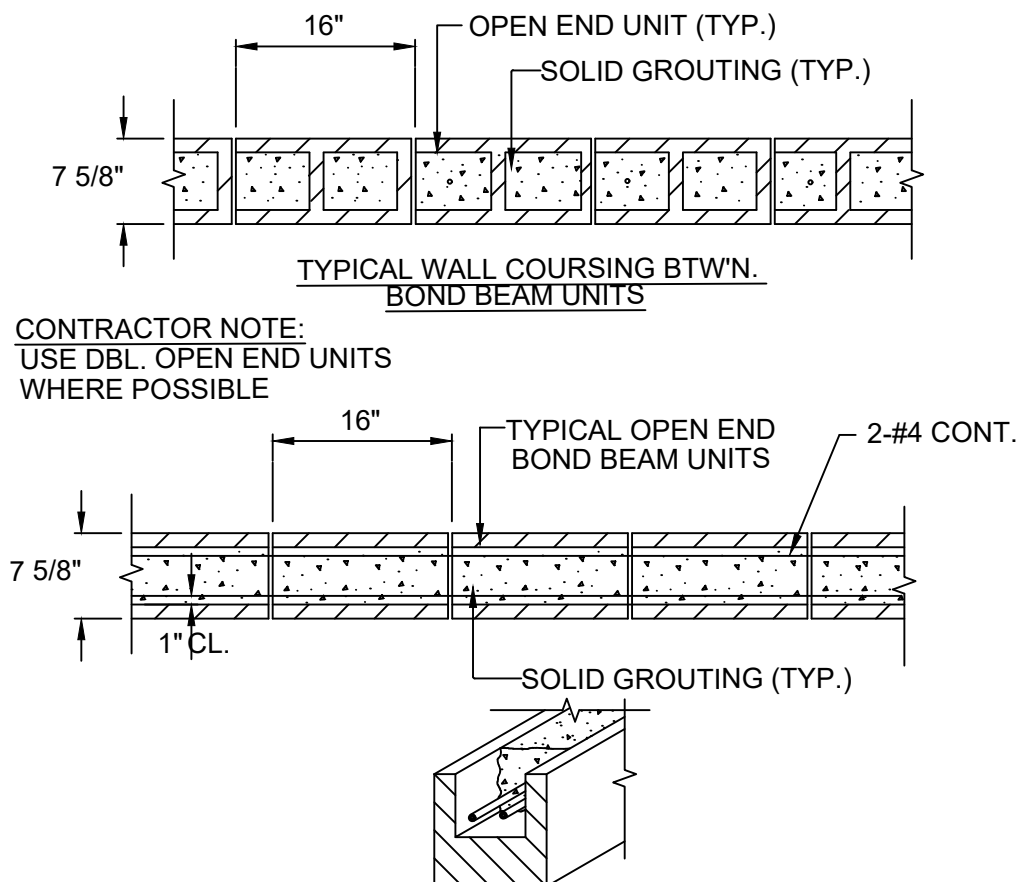
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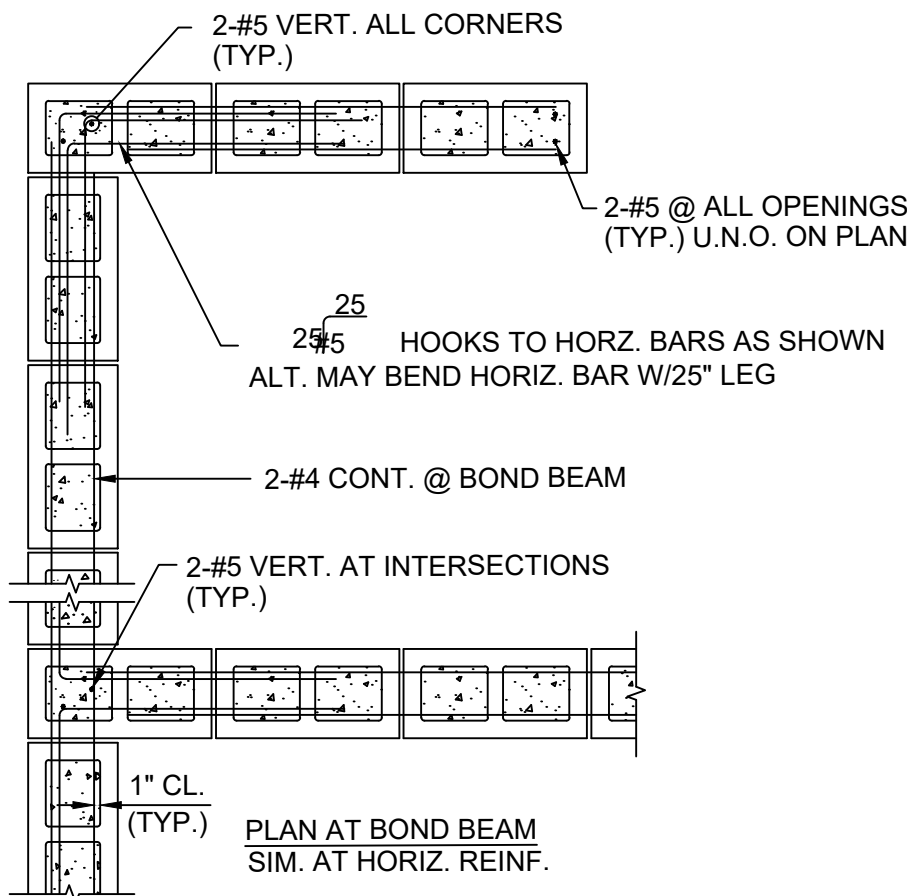
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B									B
C									C
D									D
E									E
F									F



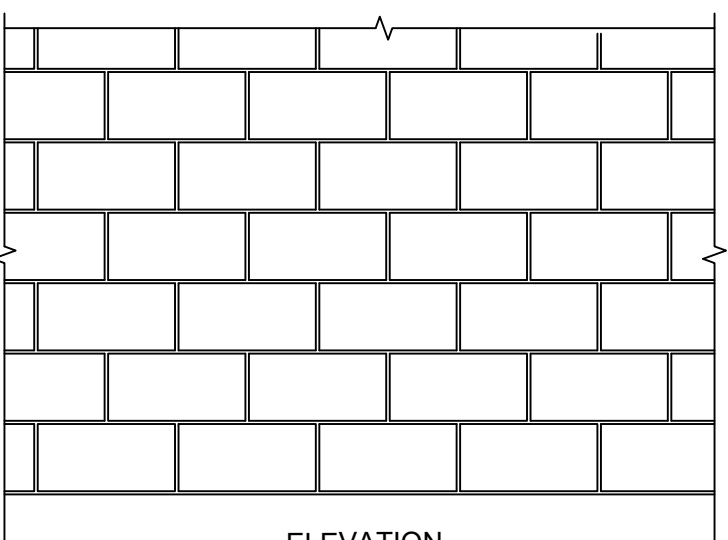
TYP. 8" WALL



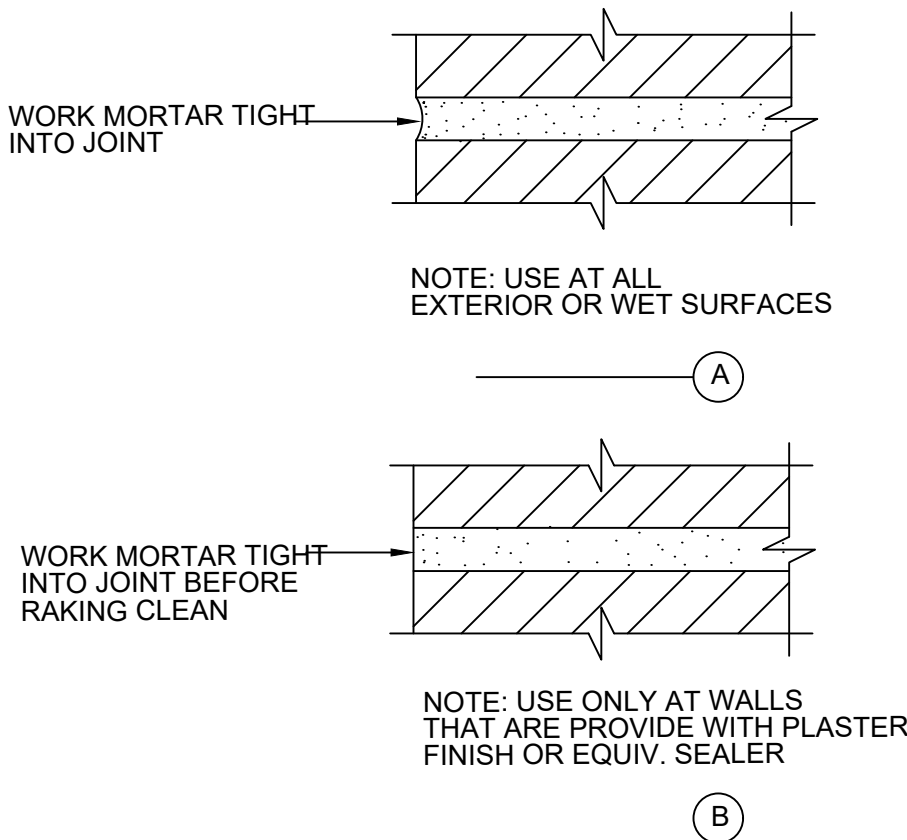
TYPICAL BOND BEAM COURSE



TYP REINFORCING AT CORNER

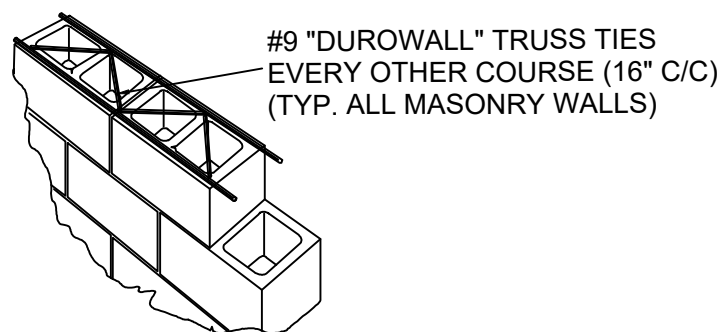


ELEVATION
TYP. CONSTRUCTION
U.N.O. OR S.A.D.

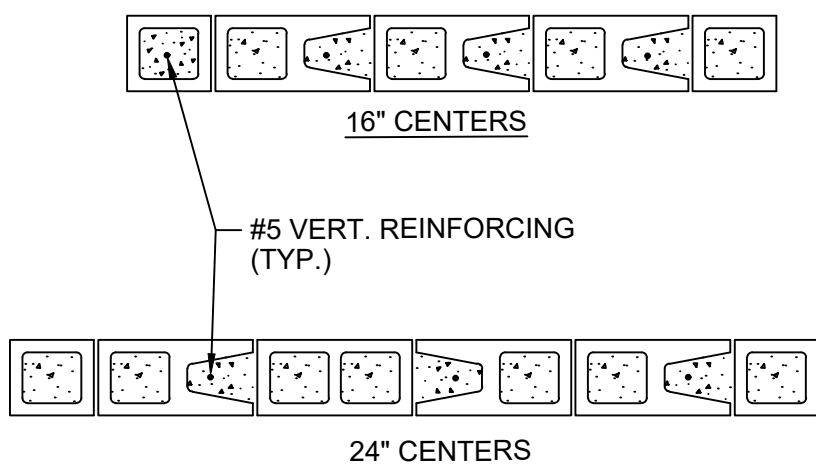


WORK MORTAR TIGHT
INTO JOINT BEFORE
RAKING CLEAN

NOTE: USE ONLY AT WALLS
THAT ARE PROVIDE WITH PLASTER
FINISH OR EQUIV. SEALER

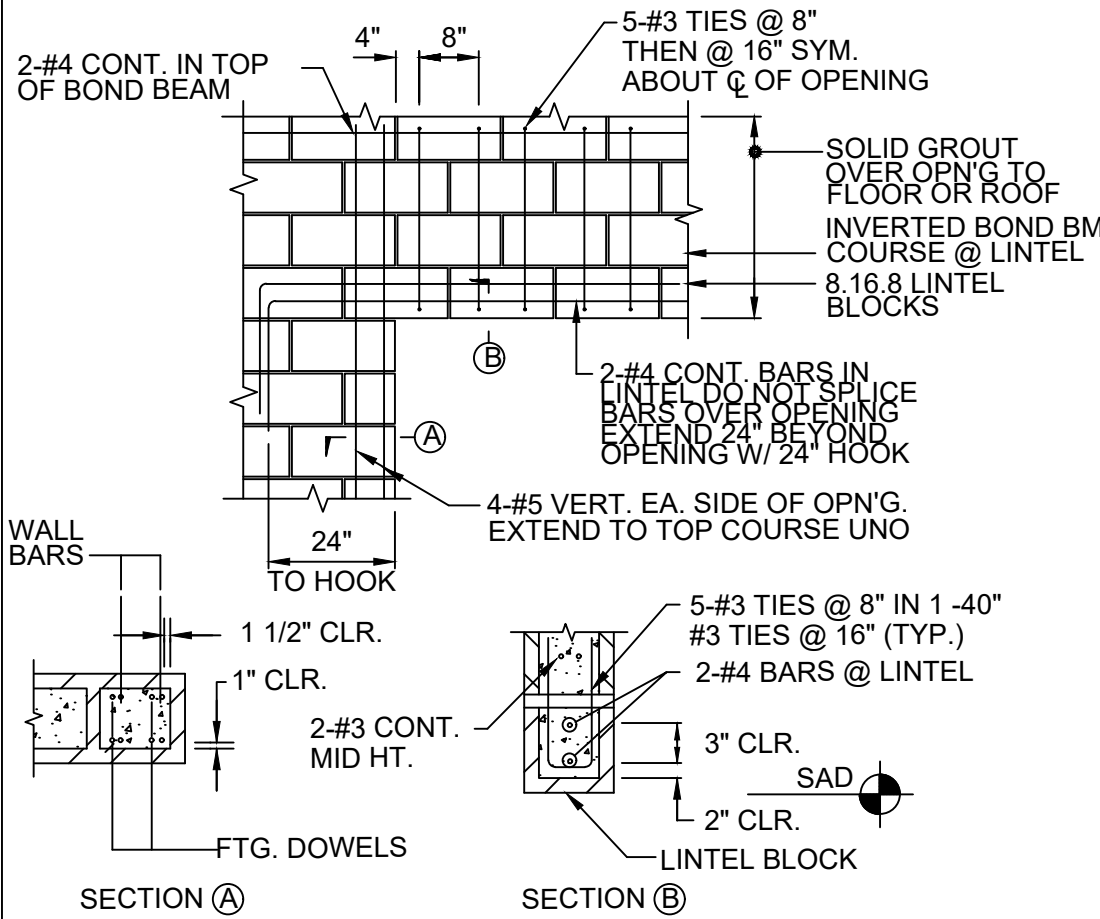


TYPICAL WALL TRUSS TIE
USE ON ALL CMU
EVERY OTHER BLOCK COURSE



VERTICAL REIN. PLACEMENT

1. CONCRETE BLOCK SHALL BE GRADE N-1 UNITS CONFORMING TO ASTM C-90, WITH MINIMUM PRISM STRENGTH, f_m, OF 1500 psi.
2. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C-270, WITH MINIMUM COMPRESSIVE STRENGTH OF 1800 psi AT 28 DAYS. MIX IS 1 PART PORTLAND CEMENT, 1/2 PART LIME PUTTY, AND 4-1/2 PARTS SAND (BY VOLUME). IF PLASTIC TYPE CEMENT IS USED, OMIT THE LIME PUTTY.
3. GROUT SHALL CONFORM TO ASTM C-476, WITH MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS. MIX IS 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL, TO BE FLUID CONSISTENCY. GROUT ALL CELLS.
4. THE THICKNESS OF GROUT BETWEEN BLOCK UNITS AND REINFORCING STEEL SHALL NOT BE LESS THAN 1/2" AND BETWEEN PARALLEL PARALLEL REINFORCING BARS NOT LESS THAN 3/4"
5. IF WORK IS STOPPED ONE HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINTS BY STOPPING GROUT 1 1/2" BELOW THE TOP OF THE BLOCK.
6. SPECIAL INSPECTION PER SECTION 1701 OF THE UNIFORM BUILDING CODE BY AN INSPECTOR APPROVED BY THE ENGINEER AND THE APPLICABLE BUILDING DEPARTMENT IS REQUIRED, UNLESS OTHERWISE NOTED.



HEADER / JAMB REINFORCING

CONCRETE U-BLOCK LINTEL SCHEDULE

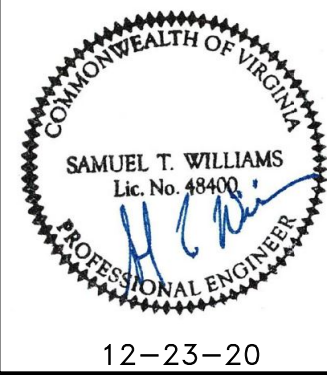
OPENING WIDTH	UP TO 6'-0"	UP TO 6'-8"	UP TO 7'-4"	UP TO 8'-0"	UP TO 12'-0"
8"/12"	2#3	2#4	2#4	2#5	2#6

NOTE:
BLOCK TO HAVE MIN. 8" BEARING EACH END

LOOSE STEEL LINTEL SCHEDULE

OPENING	UP TO 8'-0"	UP TO 8'-8"	UP TO 8'-4"	UP TO 8'-8"	UP TO 10'-8"
ANGLE	L3 1/2 X 3 1/2 X 1/4	L4 X 3 1/2 X 1/4	L5 X 3 1/2 X 1/4	L6 X 3 1/2 X 1/4	L6 X 4 X 7/16

NOTE: ANGLES SHALL HAVE A MIN. OF 8" BEARING EACH END. WHERE ANGLE SHOWN IN SCHEDULE HAS UNEQUAL LEGS PROVIDE S.L.O. IN ALL CASES ANGLES SHOWN IN SCHEDULE ARE FOR EACH 4" OF MASONRY.



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No.	Description	Date

Job Number: 2002-00
Date: 03/01/20
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Checked By: TJR
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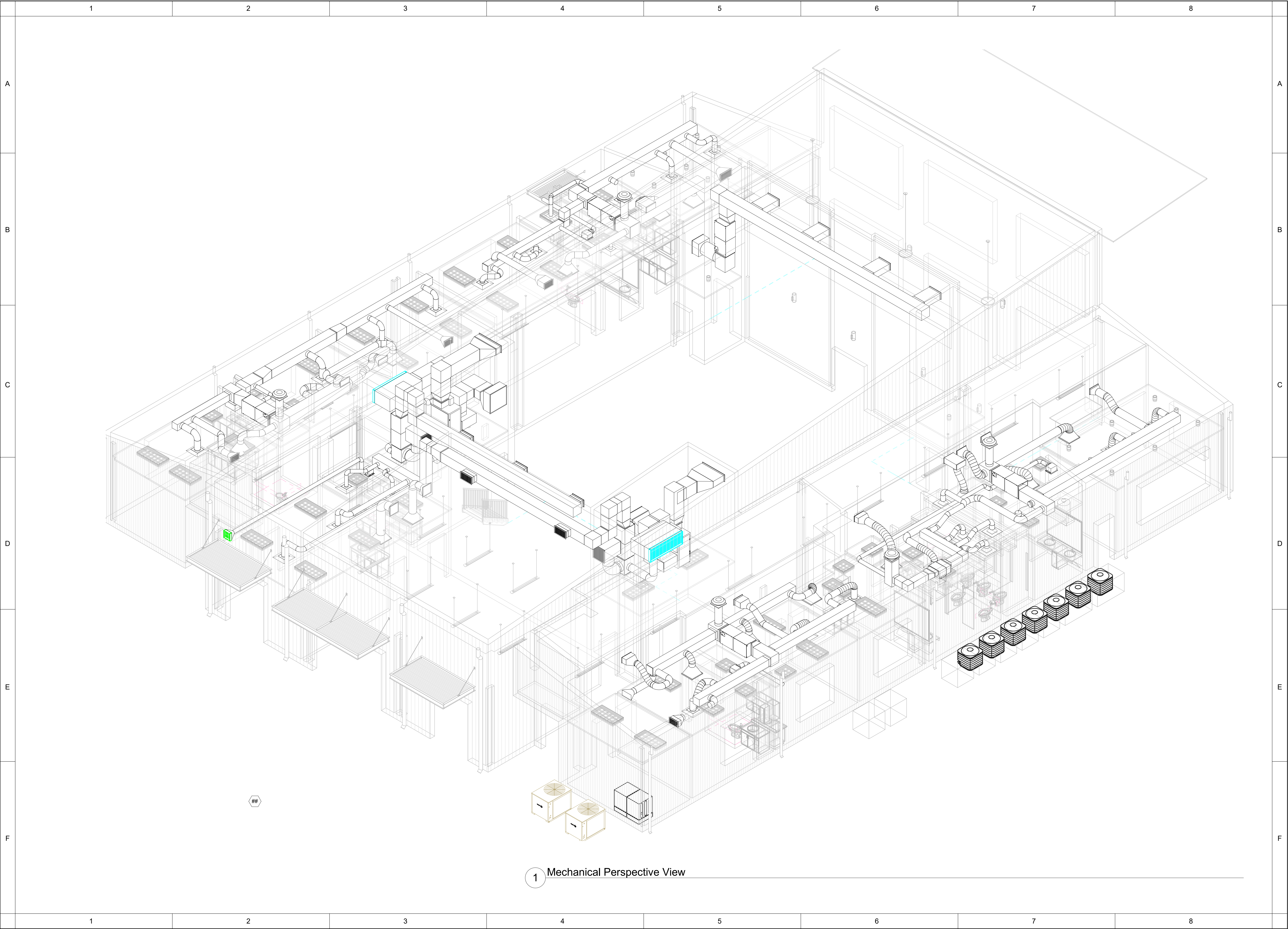
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MASONRY DETAILS
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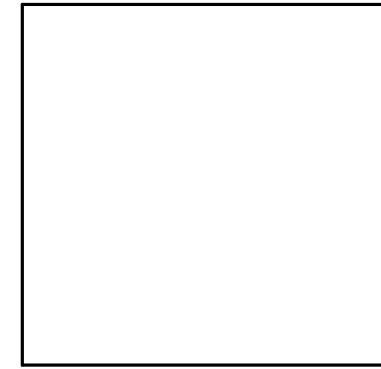
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SUITE FIVE HUNDRED FIFTY
ATLANTA, GEORGIA 30338
TEL. 678.990.5656
FAX 678.990.5858

S6.0



1 Mechanical Perspective View

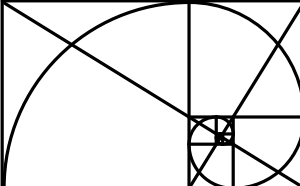


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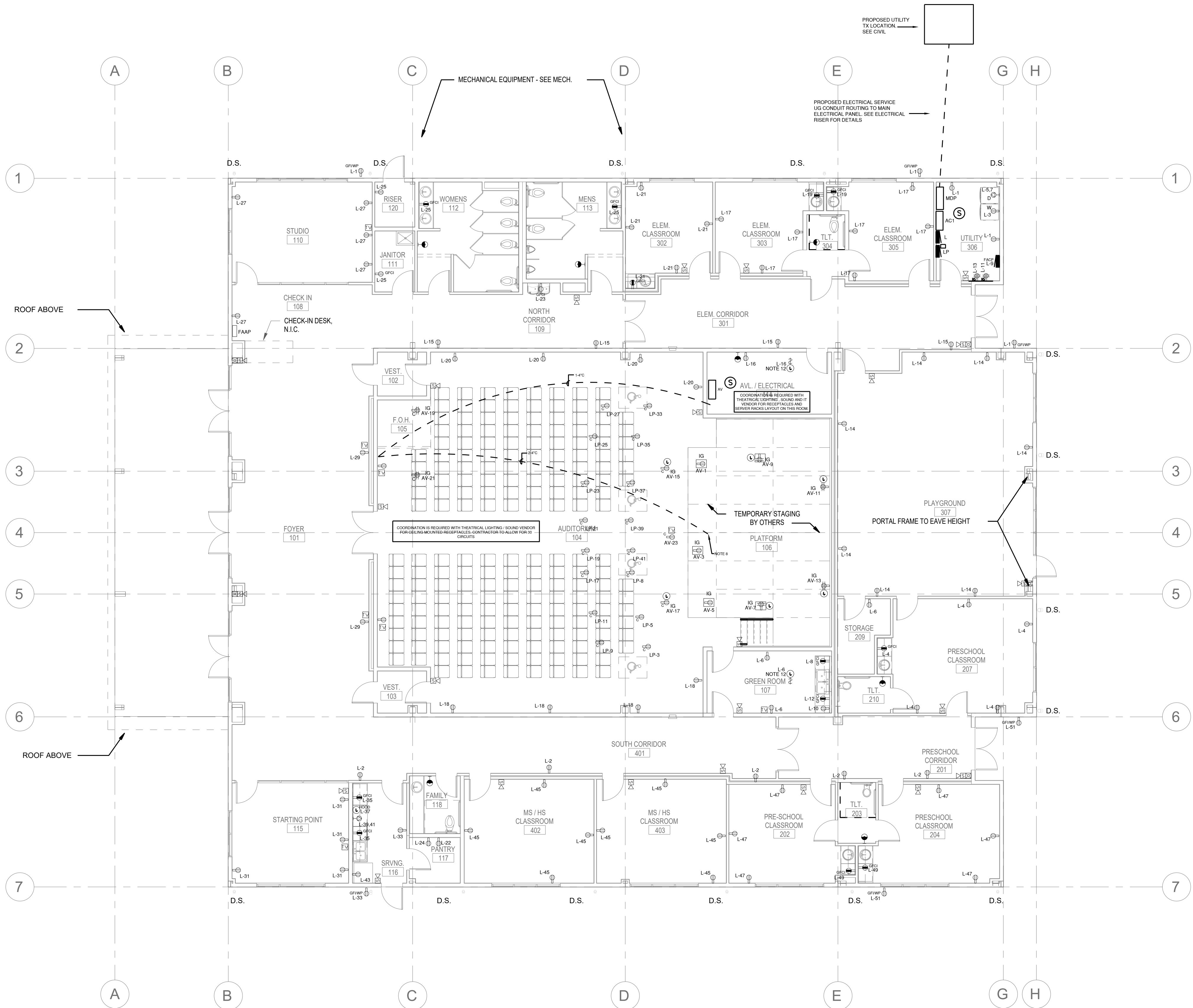
MECHANICAL PERSPECTIVE
PLAN
SOUTHRIDGE
(LOT #) INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

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M102

POWER AND SYSTEMS NOTES:

1. TV OUTLET WITH CABLE T.V. CONNECTION. FIELD COORDINATE ELECTRICAL REQUIREMENTS.
2. ALARM SYSTEM CONTROL FINAL CONNECTION BY ALARM CONTRACTOR. STACK ALARM PANEL ABOVE TELEPHONE PANEL. COORDINATE OUTLET MOUNTING HEIGHT WITH ALARM CONTRACTOR.
3. PROVIDE 3' X 4' X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD PAINTED WHITE FOR TELEPHONE SYSTEM. CONNECT #6 AWG. INSULATED, STRANDED, COPPER GROUND WIRE FROM TELEPHONE SYSTEM TO GROUND BUS AT MAIN PANEL.
4. CONTRACTOR TO PROVIDE 2-3" CONDUIT FOR TELEPHONE SERVICE FROM ELECTRICAL ROOM TO D-MARK POINT. COORDINATE WITH UTILITY COMPANY PRIOR TO INSTALLATION.
5. IF GFI RECEPTACLE IS NOT READABLE ACCESSIBLE CONTRACTOR SHALL PROVIDE GFI BREAKER INSTEAD. TYPICAL FOR KITCHEN EQUIPMENT AND DRINKING FOUNTAIN.
6. ALL RECEPTACLES TO BE CHILDPROOF RATED.
7. CONTRACTOR TO PROVIDE J-BOX FOR ACCESS CONTROL. PROVIDE 3" EMPTY CONDUIT ABOVE CEILING SPACE AND PULL STRING FOR FUTURE WIRING INSTALLATION. COORDINATE WITH SECURITY VENDOR PRIOR TO INSTALLATION.
8. STUB UP CONDUIT UNDER PLATFORM AND IN SOUND BOOTH.
9. CONTRACTOR TO PROVIDE 2 1X4 UTILITY LED FIXTURES WITH SWITCH ABOVE THIS ROOM FOR MECHANICAL MEZZANINE.
10. OUTLET FOR OWNERS PROVIDED STRING LED LIGHTS.
11. PROVIDE DEDICATED CIRCUIT FOR TOILETS AND FAUCETS AUTOMATIC ACTUATORS.
12. J-BOX TO PROVIDE POWER TO AC PLATFORM ABOVE. PROVIDE SWITCH AND 1X4 UTILITY LED FIXTURE NEXT TO ACCESS TO PROVIDE LIGHTING ON PLATFORM.



POWER PLAN

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



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POWER PLAN
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E101

[illegible]

ELECTRICAL HVAC PLAN NOTES:

1. SEE MECHANICAL SCHEDULE FOR UNITS ELECTRICAL SERVICE REQUIREMENTS. IN CASE OF DISCREPANCIES BETWEEN SCHEDULE, VALUES SHOWN ON THE FLOOR AND EQUIPMENT LABELS, THE LABEL VALUES SUPERCEDES.
2. CONNECT TO RESTROOM LIGHTING CIRCUIT. FAN TO OPERATE WHENEVER RESTROOM LIGHTS ARE ON.
3. EQUIPMENT MOUNTED ON MEZZANINE.

MECHANICAL EQUIPMENT SCHEDULE																		
EQUIPMENT NAME	VOLTAGE	PHASE	HP	KW	KW / POLE	FLA	MCA	MOCP	BREAKER AMPACITY	PANEL		FEEDER		DISCONNECT (NOTE 1)			CONTROL	
														SIZE	POLES	FUSE SIZE		ENCLOSURE
DCU-1	208	1			2.42	23.3	29.1	35	35	ACI-37.39	2 # 8	.1# 10 G	3/4 "C	60	2	NF	NEMA 3R	BY DIVISION 23
DAHU-1	208	1			0.15	1.4	1.8	15	15	ACI-41.43	2 # 12	.1# 12 G	1/2 "C	30	2	NF	NEMA 1	BY DIVISION 23
CU-1	208	3			2.02	16.8	21.0	35	35	ACI-49.51.53	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-2	208	3			2.02	16.8	21.0	35	35	ACI-55.57.59	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-3	208	3			2.02	16.8	21.0	35	35	ACI-2.4.6	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-4	208	3			3.17	26.4	33.0	45	45	ACI-8.10.12	3 # 6	.1# 10 G	1 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-5	208	3			2.02	16.8	21.0	35	35	ACI-14.16.18	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-6	208	3			3.17	26.4	33.0	45	45	ACI-20.22.24	3 # 6	.1# 10 G	1 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-7	208	3			2.02	16.8	21.0	35	35	ACI-26.28.30	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-8	208	3			2.02	16.8	21.0	35	35	ACI-32.34.36	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
CU-9	208	3			2.02	16.8	21.0	35	35	ACI-38.40.42	3 # 8	.1# 10 G	3/4 "C	60	3	NF	NEMA 3R	BY DIVISION 23
AHU-1	120	1			1.47	12.2	15.3	20	20	ACI-1	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-2	120	1			1.47	12.2	15.3	20	20	ACI-3	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-3	120	1			1.47	12.2	15.3	20	20	ACI-5	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-4	208	3			1.15	9.6	12.0	20	20	ACI-44.46.48	3 # 12	.1# 12 G	1/2 "C	30	3	NF	NEMA 1	BY DIVISION 23
AHU-5	120	1			1.47	12.2	15.3	20	20	ACI-7	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-6	208	3			0.94	7.8	12.0	20	20	ACI-50.52.54	3 # 12	.1# 12 G	1/2 "C	30	3	NF	NEMA 1	BY DIVISION 23
AHU-7	120	1			1.47	12.2	15.3	20	20	ACI-9	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-8	120	1			1.47	12.2	15.3	20	20	ACI-11	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
AHU-9	120	1			1.47	12.2	15.3	20	20	ACI-13	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
DH-1 (AHU-4)	120	1			1.00	10.0	12.0	15	15	ACI-15	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
DH-2 (AHU-6)	120	1			1.00	10.0	12.0	15	15	ACI-17	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
FUF2	120	1			0.50	3.0	3.6	15	15	ACI-19	2 # 12	.1# 12 G	1/2 "C	30	1	NF	NEMA 1	BY DIVISION 23
WH-1 - JANITOR	208	1			1.50	12.0	15.0	20	20	ACI-21.23	2 # 12	.1# 12 G	1/2 "C	30	2	NF	NEMA 1	BY DIVISION 26
WH-1 - UTILITY	208	1			3.00	28.0	28.0	35	35	ACI-25.27	2 # 8	.1# 10 G	3/4 "C	60	2	NF	NEMA 1	BY DIVISION 26

NOTES:
1. DISCONNECT SWITCH IS NOT REQUIRED IF UNIT IS PROVIDED WITH DISCONNECT OR IF UNIT HAS CORD/PLUG AND RECEPTACLE.

HVAC POWER PLAN
SCALE: 1/8" = 1'-0"



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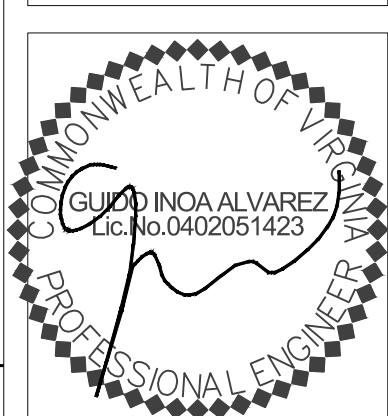
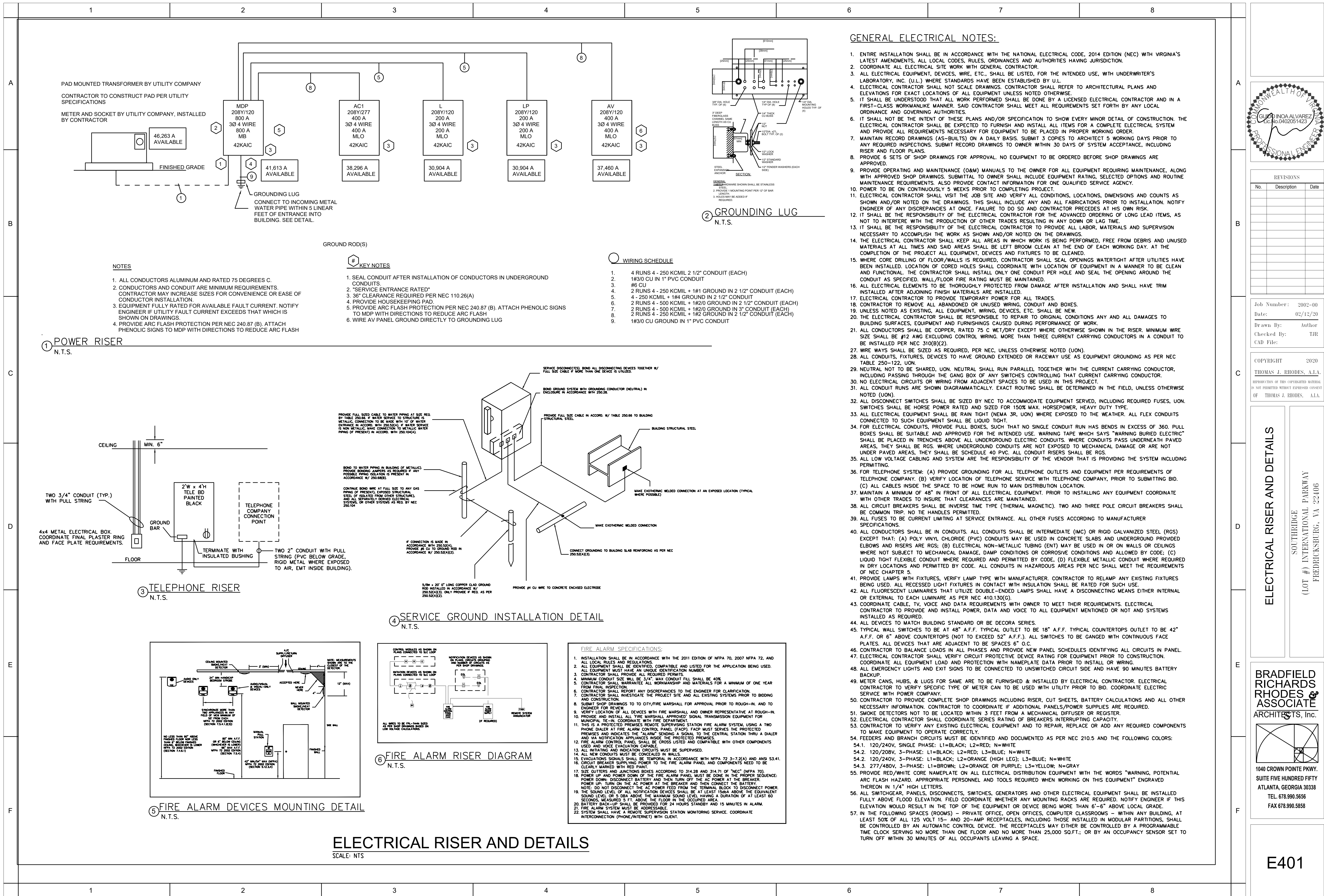
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HVAC POWER PLAN
SOUTHRIDGE
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A	<table><tr><th colspan="2">PANEL NAME</th><th colspan="2">LOCATION:</th><th colspan="6">VOLTAGE: 208 V/ 120V 3 PHASE</th><th colspan="4">MOUNTING/ ENCLOSURE: SURFACE / NEMA 1</th></tr><tr><th colspan="2">MDP</th><th colspan="2">ELECTRICAL RM</th><th colspan="6">800A MCB</th><th colspan="4"></th></tr><tr><th>AMPS</th><th>POLES</th><th>TYPE</th><th>CIRCUIT DESCRIPTION</th><th>KVA</th><th>CKT</th><th>A</th><th>B</th><th>C</th><th>CKT</th><th>KVA</th><th>CIRCUIT DESCRIPTION</th><th>TYPE</th><th>POLES</th><th>AMPS</th></tr><tr><td>400</td><td>3</td><td></td><td>AV</td><td>2.50</td><td>1</td><td>34.94</td><td></td><td></td><td>2</td><td>32.44</td><td>PANEL AC1</td><td></td><td>3</td><td>400</td></tr><tr><td></td><td></td><td></td><td></td><td>2.50</td><td>3</td><td></td><td>35.84</td><td></td><td>4</td><td>33.34</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>2.50</td><td>5</td><td></td><td></td><td>30.14</td><td>6</td><td>27.64</td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td>3</td><td></td><td>SPARE</td><td>0.00</td><td>7</td><td></td><td></td><td></td><td>8</td><td>0.00</td><td>SPARE</td><td></td><td>3</td><td>20</td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>9</td><td></td><td></td><td></td><td>10</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>11</td><td></td><td></td><td></td><td>12</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td>3</td><td></td><td>SPARE</td><td>0.00</td><td>13</td><td>5.50</td><td></td><td></td><td>14</td><td>5.50</td><td>PANEL LP</td><td></td><td>3</td><td>200</td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>15</td><td></td><td>7.50</td><td></td><td>16</td><td>7.50</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>17</td><td></td><td></td><td>7.50</td><td>18</td><td>7.50</td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td>3</td><td></td><td>SPARE</td><td>0.00</td><td>19</td><td>19.75</td><td></td><td></td><td>20</td><td>19.75</td><td>PANEL L</td><td></td><td>3</td><td>200</td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>21</td><td></td><td>17.65</td><td></td><td>22</td><td>17.65</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>23</td><td></td><td></td><td>17.07</td><td>24</td><td>17.07</td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td>3</td><td></td><td>SPARE</td><td>0.00</td><td>25</td><td></td><td></td><td></td><td>26</td><td>0.00</td><td>SPARE</td><td></td><td>3</td><td>20</td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>27</td><td></td><td></td><td></td><td>28</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>0.00</td><td>29</td><td></td><td></td><td></td><td>30</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="4">*PROVIDE LOCK ON</td><td colspan="6">PHASE TOTAL</td><td>60.2</td><td>61.0</td><td>54.7</td><td>KVA</td><td></td></tr><tr><td colspan="4">**PROVIDE HACR TYPE CIRCUIT BREAKER</td><td colspan="6">TOTAL CONNECTED LOAD</td><td colspan="2">17% KVA</td><td colspan="3">488 A</td></tr><tr><td colspan="4"></td><td colspan="6">TOTAL DEMAND LOAD</td><td colspan="2">157 KVA</td><td colspan="3">435 A</td></tr></table> <div><table><tr><td>L</td><td>LIGHTING</td><td>37.1</td><td></td><td>46.4</td></tr><tr><td>R</td><td>RECEPTACLE</td><td>28.5</td><td></td><td>19.2</td></tr><tr><td>M</td><td>MOTOR</td><td>0.6</td><td>2.4</td><td>1.2</td></tr><tr><td>H</td><td>HEATING</td><td>3.0</td><td></td><td>80.8</td></tr><tr><td>AC</td><td>AC</td><td>80.8</td><td></td><td></td></tr><tr><td>K</td><td>KITCHEN</td><td>0.0</td><td>65%</td><td>0.0</td></tr><tr><td>T</td><td>MISCELLANEOUS</td><td>9.0</td><td></td><td>9.0</td></tr><tr><td></td><td>TRANSFORMED FROM SUB PANEL</td><td>0.0</td><td></td><td>0.0</td></tr></table><p>FILL IN KVA OF LARGEST MOTOR AND DIVERSITY FACTOR FOR KITCHEN</p></div>									PANEL NAME		LOCATION:		VOLTAGE: 208 V/ 120V 3 PHASE						MOUNTING/ ENCLOSURE: SURFACE / NEMA 1				MDP		ELECTRICAL RM		800A MCB										AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS	400	3		AV	2.50	1	34.94			2	32.44	PANEL AC1		3	400					2.50	3		35.84		4	33.34									2.50	5			30.14	6	27.64					20	3		SPARE	0.00	7				8	0.00	SPARE		3	20					0.00	9				10	0.00									0.00	11				12	0.00					20	3		SPARE	0.00	13	5.50			14	5.50	PANEL LP		3	200					0.00	15		7.50		16	7.50									0.00	17			7.50	18	7.50					20	3		SPARE	0.00	19	19.75			20	19.75	PANEL L		3	200					0.00	21		17.65		22	17.65									0.00	23			17.07	24	17.07					20	3		SPARE	0.00	25				26	0.00	SPARE		3	20					0.00	27				28	0.00									0.00	29				30	0.00					*PROVIDE LOCK ON				PHASE TOTAL						60.2	61.0	54.7	KVA		**PROVIDE HACR TYPE CIRCUIT BREAKER				TOTAL CONNECTED LOAD						17% KVA		488 A							TOTAL DEMAND LOAD						157 KVA		435 A			L	LIGHTING	37.1		46.4	R	RECEPTACLE	28.5		19.2	M	MOTOR	0.6	2.4	1.2	H	HEATING	3.0		80.8	AC	AC	80.8			K	KITCHEN	0.0	65%	0.0	T	MISCELLANEOUS	9.0		9.0		TRANSFORMED FROM SUB PANEL	0.0		0.0																																																																																																																																																																																					
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CORRIDOR</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>WASHER</td><td>1.60</td><td>3</td><td></td><td></td><td>2.32</td><td></td><td>0.72</td><td>CLASS 207</td><td>R</td><td>1</td><td>20</td></tr><tr><td>30</td><td>2</td><td></td><td>DRYER</td><td>2.25</td><td>5</td><td></td><td></td><td>2.75</td><td>6</td><td>0.50</td><td>GREEN 107</td><td>R</td><td>1</td><td>20</td></tr><tr><td></td><td></td><td></td><td></td><td>2.25</td><td>7</td><td>3.05</td><td></td><td></td><td>8</td><td>0.80</td><td>GREEN APP</td><td>K</td><td>1</td><td>20</td></tr><tr><td>20*</td><td>1</td><td>R</td><td>FAP</td><td>1.23</td><td>9</td><td></td><td>2.35</td><td></td><td>10</td><td>1.12</td><td>REFRIGERATOR GREEN ROOM</td><td>K</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>PHONE BD</td><td>1.20</td><td>11</td><td></td><td></td><td>2.16</td><td>12</td><td>0.96</td><td>GREEN APP</td><td>K</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>PHONE BD</td><td>1.20</td><td>13</td><td>2.16</td><td></td><td></td><td>14</td><td>0.96</td><td>PLAYGROUND 307</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>N. CORRIDOR RECEP</td><td>0.72</td><td>15</td><td></td><td>2.04</td><td></td><td>16</td><td>1.32</td><td>AV 114</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>ELEM 305-303</td><td>1.20</td><td>17</td><td></td><td></td><td>1.92</td><td>18</td><td>0.72</td><td>AUDITORIUM 104</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>GFI ELEM 305-303</td><td>1.20</td><td>19</td><td>1.92</td><td></td><td></td><td>20</td><td>0.72</td><td>AUDITORIUM 104</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>ELEM 302</td><td>1.20</td><td>21</td><td></td><td>1.82</td><td></td><td>22</td><td>0.62</td><td>WALKIE TALKIES STATION</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20**</td><td>1</td><td>R</td><td>DF</td><td>0.60</td><td>23</td><td></td><td></td><td>1.22</td><td>24</td><td>0.62</td><td>WALKIE TALKIES STATION</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>JANITORS / BATH</td><td>1.00</td><td>25</td><td>2.80</td><td></td><td></td><td>26</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>STUDIO 110</td><td>0.72</td><td>27</td><td></td><td>2.52</td><td></td><td>28</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>FOYER 101</td><td>0.72</td><td>29</td><td></td><td></td><td>2.52</td><td>30</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>STARTING POINT 115</td><td>1.20</td><td>31</td><td>3.00</td><td></td><td></td><td>32</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>R</td><td>SERVING 116</td><td>0.70</td><td>33</td><td></td><td>2.50</td><td></td><td>34</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>K</td><td>APP 116</td><td>1.00</td><td>35</td><td></td><td></td><td>2.80</td><td>36</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>K</td><td>HOOD 116</td><td>1.00</td><td>37</td><td>2.80</td><td></td><td></td><td>38</td><td>1.80</td><td>LIGHTING</td><td>L</td><td>1</td><td>20</td></tr><tr><td>50</td><td>2</td><td>K</td><td>RANGE 116</td><td>2.50</td><td>39</td><td></td><td>2.50</td><td></td><td>40</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td></td><td></td><td>K</td><td></td><td>2.50</td><td>41</td><td></td><td></td><td>2.50</td><td>42</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>K</td><td>FRIDGE 116</td><td>0.90</td><td>43</td><td>0.90</td><td></td><td></td><td>44</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>L</td><td>CLASS 402-403</td><td>1.20</td><td>45</td><td></td><td>1.20</td><td></td><td>46</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>L</td><td>CLASS 202-204</td><td>1.20</td><td>47</td><td></td><td></td><td>1.20</td><td>48</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>L</td><td>CLASS 202-204 GFI</td><td>1.20</td><td>49</td><td>1.20</td><td></td><td></td><td>50</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>L</td><td>SERVICE RECEP</td><td>0.40</td><td>51</td><td></td><td>0.40</td><td></td><td>52</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td>20</td><td>1</td><td>L</td><td>SPARE</td><td>0.00</td><td>53</td><td></td><td></td><td></td><td>54</td><td>0.00</td><td>SPARE</td><td>R</td><td>1</td><td>20</td></tr><tr><td colspan="4">*PROVIDE LOCK ON BREAKER</td><td colspan="6">PHASE</td><td>19.8</td><td>17.7</td><td>17.1</td><td>KVA</td><td></td></tr><tr><td colspan="4">**PROVIDE GFCI BREAKER</td><td colspan="6">TOTAL CONNECTED LOAD</td><td colspan="2">54 KVA</td><td colspan="3">151 A</td></tr><tr><td colspan="4"></td><td colspan="6">TOTAL DEMAND LOAD</td><td colspan="2">49 KVA</td><td colspan="3">137 A</td></tr></table> <div><table><tr><td>L</td><td>LIGHTING</td><td>16.6</td><td></td><td>20.8</td></tr><tr><td>R</td><td>RECEPTACLE</td><td>21.0</td><td></td><td>15.5</td></tr><tr><td>M</td><td>MOTOR</td><td>0.0</td><td>2.4</td><td>0.0</td></tr><tr><td>H</td><td>HEATING</td><td>0.0</td><td></td><td>0.0</td></tr><tr><td>AC</td><td>AC</td><td>0.0</td><td></td><td>0.0</td></tr><tr><td>K</td><td>KITCHEN</td><td>10.8</td><td>65%</td><td>7.0</td></tr><tr><td>T</td><td>MISCELLANEOUS</td><td>6.1</td><td></td><td>6.1</td></tr><tr><td></td><td>TRANSFORMED FROM SUB PANEL</td><td>0.0</td><td></td><td>0.0</td></tr></table><p>FILL IN KVA OF LARGEST MOTOR AND DIVERSITY FACTOR FOR KITCHEN</p></div>									PANEL NAME		LOCATION:		VOLTAGE: 208 V/ 120V 3 PHASE						MOUNTING/ ENCLOSURE: SURFACE / NEMA 1				L		ELECTRICAL RM		225A MLO										AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS	20	1	R	UTILITY RM 306	1.20	1	1.92			2	0.72	S. CORRIDOR	R	1	20	20	1	R	WASHER	1.60	3			2.32		0.72	CLASS 207	R	1	20	30	2		DRYER	2.25	5			2.75	6	0.50	GREEN 107	R	1	20					2.25	7	3.05			8	0.80	GREEN APP	K	1	20	20*	1	R	FAP	1.23	9		2.35		10	1.12	REFRIGERATOR GREEN ROOM	K	1	20	20	1	R	PHONE BD	1.20	11			2.16	12	0.96	GREEN APP	K	1	20	20	1	R	PHONE BD	1.20	13	2.16			14	0.96	PLAYGROUND 307	R	1	20	20	1	R	N. CORRIDOR RECEP	0.72	15		2.04		16	1.32	AV 114	R	1	20	20	1	R	ELEM 305-303	1.20	17			1.92	18	0.72	AUDITORIUM 104	R	1	20	20	1	R	GFI ELEM 305-303	1.20	19	1.92			20	0.72	AUDITORIUM 104	R	1	20	20	1	R	ELEM 302	1.20	21		1.82		22	0.62	WALKIE TALKIES STATION	R	1	20	20**	1	R	DF	0.60	23			1.22	24	0.62	WALKIE TALKIES STATION	R	1	20	20	1	R	JANITORS / BATH	1.00	25	2.80			26	1.80	LIGHTING	L	1	20	20	1	R	STUDIO 110	0.72	27		2.52		28	1.80	LIGHTING	L	1	20	20	1	R	FOYER 101	0.72	29			2.52	30	1.80	LIGHTING	L	1	20	20	1	R	STARTING POINT 115	1.20	31	3.00			32	1.80	LIGHTING	L	1	20	20	1	R	SERVING 116	0.70	33		2.50		34	1.80	LIGHTING	L	1	20	20	1	K	APP 116	1.00	35			2.80	36	1.80	LIGHTING	L	1	20	20	1	K	HOOD 116	1.00	37	2.80			38	1.80	LIGHTING	L	1	20	50	2	K	RANGE 116	2.50	39		2.50		40	0.00	SPARE	R	1	20			K		2.50	41			2.50	42	0.00	SPARE	R	1	20	20	1	K	FRIDGE 116	0.90	43	0.90			44	0.00	SPARE	R	1	20	20	1	L	CLASS 402-403	1.20	45		1.20		46	0.00	SPARE	R	1	20	20	1	L	CLASS 202-204	1.20	47			1.20	48	0.00	SPARE	R	1	20	20	1	L	CLASS 202-204 GFI	1.20	49	1.20			50	0.00	SPARE	R	1	20	20	1	L	SERVICE RECEP	0.40	51		0.40		52	0.00	SPARE	R	1	20	20	1	L	SPARE	0.00	53				54	0.00	SPARE	R	1	20	*PROVIDE LOCK ON BREAKER				PHASE						19.8	17.7	17.1	KVA		**PROVIDE GFCI BREAKER				TOTAL CONNECTED LOAD						54 KVA		151 A							TOTAL DEMAND LOAD						49 KVA		137 A			L	LIGHTING	16.6		20.8	R	RECEPTACLE	21.0		15.5	M	MOTOR	0.0	2.4	0.0	H	HEATING	0.0		0.0	AC	AC	0.0		0.0	K	KITCHEN	10.8	65%	7.0	T	MISCELLANEOUS	6.1		6.1		TRANSFORMED FROM SUB PANEL	0.0		0.0	
PANEL NAME		LOCATION:		VOLTAGE: 208 V/ 120V 3 PHASE						MOUNTING/ ENCLOSURE: SURFACE / NEMA 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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colspan="4">*PROVIDE HACR TYPE CIRCUIT BREAKER</td><td colspan="6">PHASE TOTAL</td><td>32.4</td><td>33.3</td><td>27.6</td><td>KVA</td><td></td></tr><tr><td colspan="4"></td><td colspan="6">TOTAL CONNECTED LOAD</td><td colspan="2">93 KVA</td><td colspan="3">259 A</td></tr><tr><td colspan="4"></td><td colspan="6">TOTAL DEMAND LOAD</td><td colspan="2">91 KVA</td><td colspan="3">253 A</td></tr></table> <div><table><tr><td>L</td><td>LIGHTING</td><td>0.0</td><td></td><td>0.0</td></tr><tr><td>R</td><td>RECEPTACLE</td><td>0.0</td><td></td><td>0.0</td></tr><tr><td>M</td><td>MOTOR</td><td>0.6</td><td>2.4</td><td>1.2</td></tr><tr><td>H</td><td>HEATING</td><td>3.0</td><td></td><td>80.8</td></tr><tr><td>AC</td><td>AC</td><td>80.8</td><td></td><td></td></tr><tr><td>K</td><td>KITCHEN</td><td>0.0</td><td>65%</td><td>0.0</td></tr><tr><td>T</td><td>MISCELLANEOUS</td><td>9.0</td><td></td><td>9.0</td></tr><tr><td></td><td>TRANSFORMED FROM SUB PANEL</td><td>0.0</td><td></td><td>0.0</td></tr></table><p>FILL IN KVA OF LARGEST MOTOR AND DIVERSITY FACTOR FOR KITCHEN</p></div>									PANEL NAME		LOCATION:		VOLTAGE: 208 V/ 120V 3 PHASE						MOUNTING/ ENCLOSURE: SURFACE / NEMA 1				AC1		ELECTRICAL RM		400 MLO										AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS	20	1	AC	AHU-1	1.50	1	4.00			2	2.50		AC			20	1	AC	AHU-2	1.50	3		4.00		4	2.50	CU-3	AC	3	35*	20	1	AC	AHU-3	1.50	5			4.00	6	2.50		AC			20	1	AC	AHU-5	1.50	7	4.67			8	3.17		AC			20	1	AC	AHU-7	1.50	9		4.67		10	3.17	CU-4	AC	3	45*	20	1	AC	AHU-8	1.50	11			4.67	12	3.17		AC			20	1	AC	AHU-9	1.50	13	4.00			14	2.50		AC			15	1	H	DH-1	1.50	15		4.00		16	2.50	CU-5	AC	3	35*	15	1	H	DH-2	1.50	17			4.00	18	2.50		AC			20	1	M	FI/F2	0.60	19	3.77			20	3.17		AC			20	2		WH-1	1.50	21		4.67		22	3.17	CU-6	AC	3	45*					1.50	23			4.67	24	3.17		AC			35	2		WH-2	3.00	25	5.50			26	2.50		AC							3.00	27		5.50		28	2.50	CU-7	AC	3	35*					2.50	29			5.00	30	2.50		AC			35*	3	AC	CU-2	2.50	31	5.00			32	2.50		AC					AC		2.50	33		5.00		34	2.50	CU-8	AC	3	35*	20	1	AC	SPARE	0.00	35			2.50	36	2.50		AC			35*	2	AC	DCU-1	3.00	37	5.50			38	2.50		AC			15	2	AC	DAHU-1	0.30	39		5.50		40	2.50	CU-9	AC	3	35*			AC		0.30	41	1.80			42	2.50		AC			20	1		SPARE	0.00	43		1.50		44	1.50	AHU-4	AC	3	20*	20	1		SPARE	0.00	47			1.50	48	1.50		AC					AC		2.50	49	4.00			50	1.50		AC			35*	3	AC	CU-1	2.50	51		4.00		52	1.50	AHU-6	AC	3	20*			AC		2.50	53			4.00	54	1.50		AC			*PROVIDE HACR TYPE CIRCUIT BREAKER				PHASE TOTAL						32.4	33.3	27.6	KVA						TOTAL CONNECTED LOAD						93 KVA		259 A							TOTAL DEMAND LOAD						91 KVA		253 A			L	LIGHTING	0.0		0.0	R	RECEPTACLE	0.0		0.0	M	MOTOR	0.6	2.4	1.2	H	HEATING	3.0		80.8	AC	AC	80.8			K	KITCHEN	0.0	65%	0.0	T	MISCELLANEOUS	9.0		9.0		TRANSFORMED FROM SUB PANEL	0.0		0.0																
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ELECTRICAL PANELS AND SCHEDULES

SCALE: NTS



REVISIONS

No.	Description	Date

Job Number: 2002-00
Date: 02/12/20
Drawn By: Author
Checked By: TJR
CAD File:

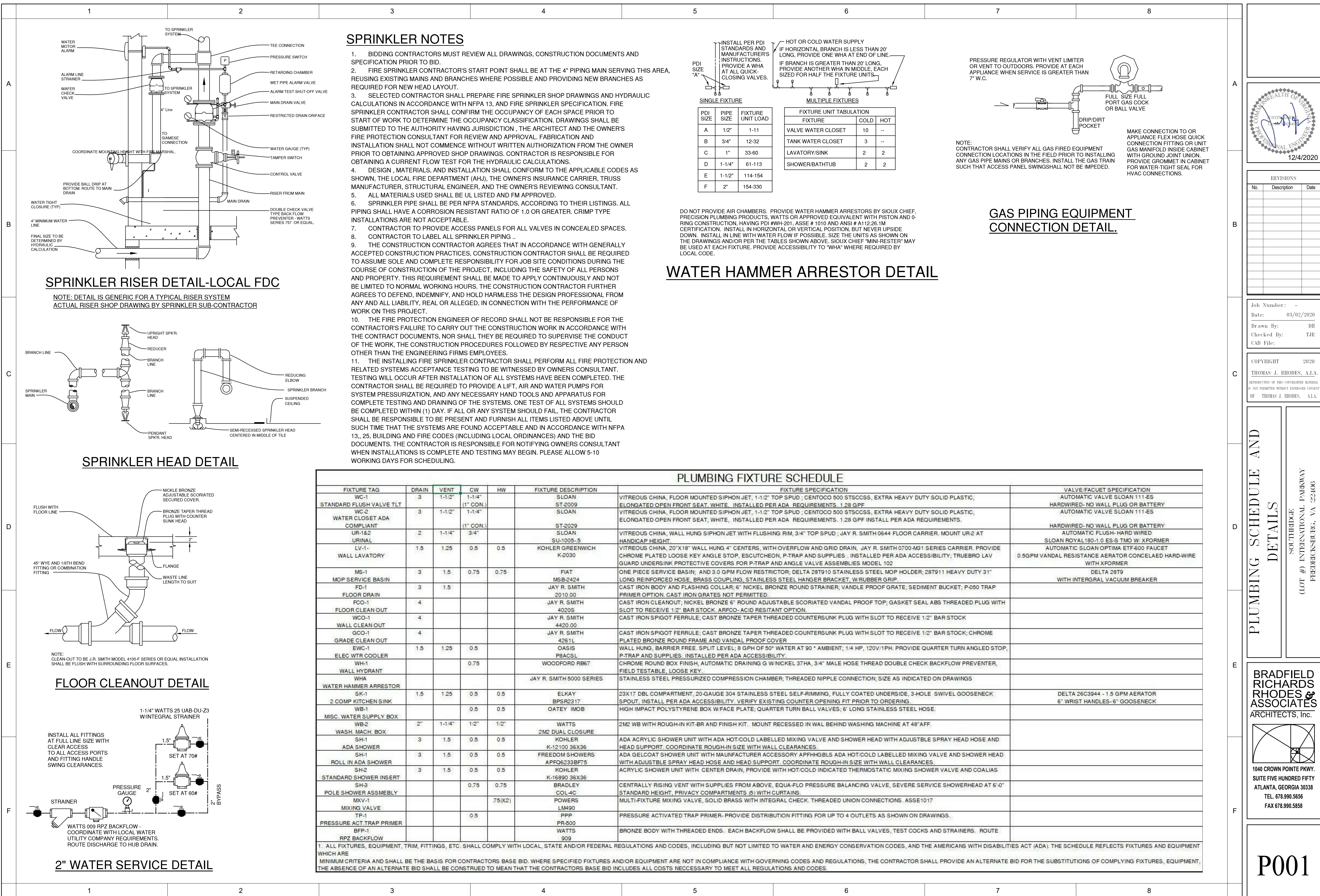
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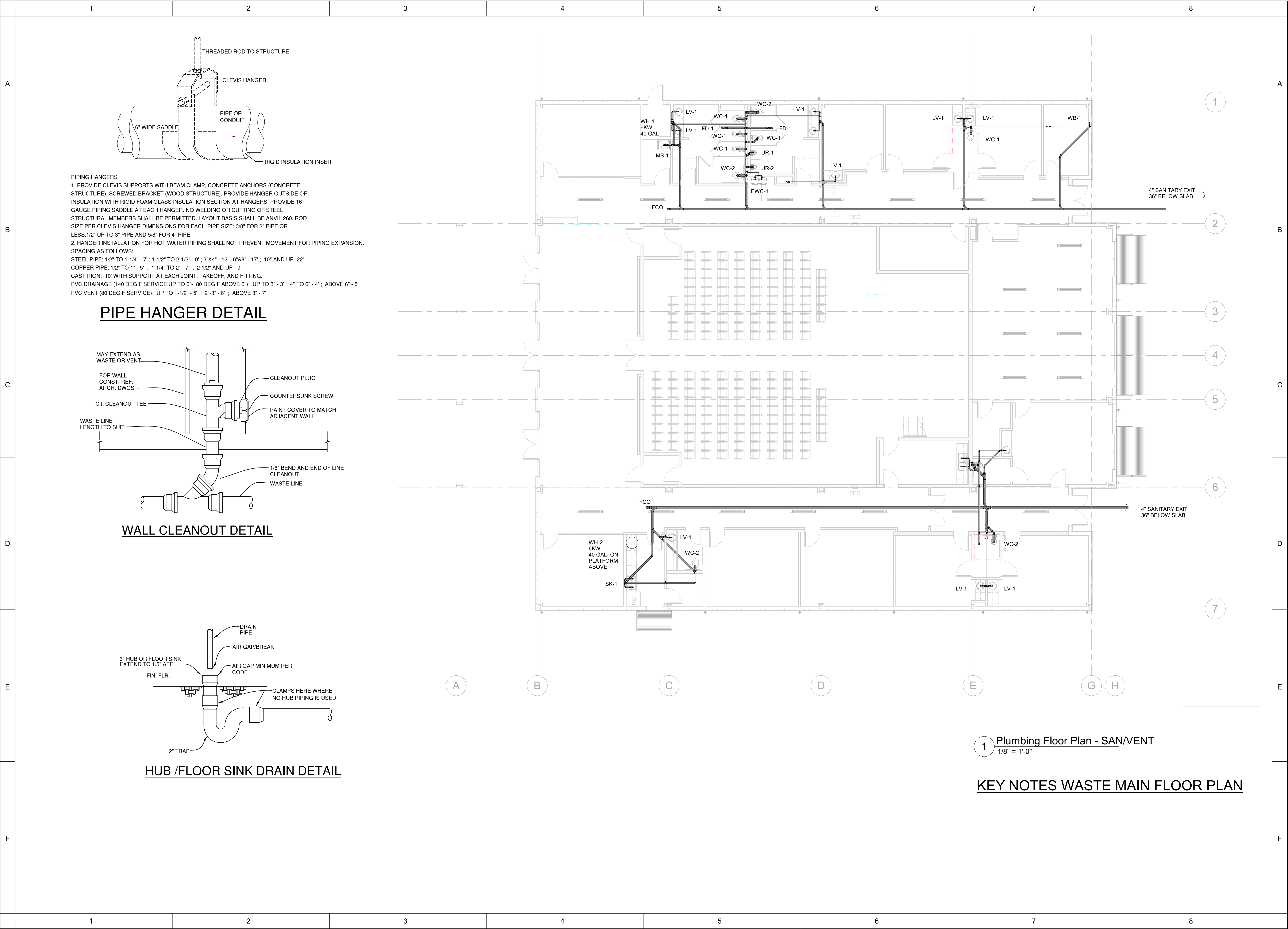
ELECTRICAL PANELS AND SCHEDULES
SOUTHRIDGE
(LOT #) INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

BRADFIELD RICHARDS RHODES & ASSOCIATE ARCHITECTS, Inc.


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E501





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No.	Description	Date

Job Number: -
Date: 03/02/2020
Drawn By: DH
Checked By: TJR
CAD File:

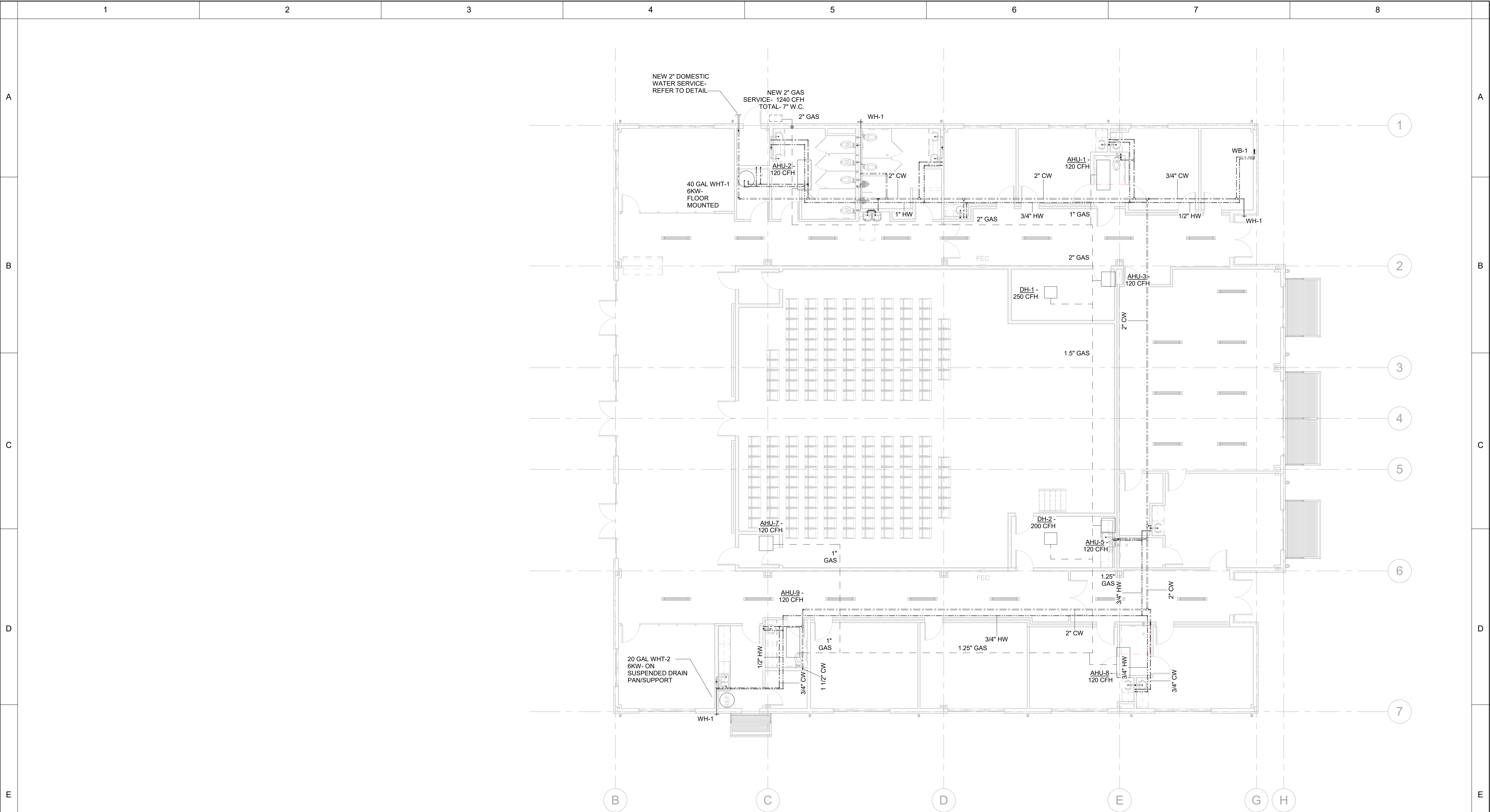
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PLUMBING FLOOR PLAN -
SAN/VENT
SOUTHRIDGE
(LOT #) INTERNATIONAL PARKWAY
FREDRICKSBURG, VA 22406

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P100



1 Plumbing Floor Plan - Overhead Piping
1/8" = 1'-0"

WATER HEATER SCHEDULE										
MARK	TYPE	LAYOUT BASIS	STORAGE GALLONS	GAS INPUT MBH	OUTPUT MBH	ELECTRICAL CAPACITY (KW)	GPH RECOVERY @80 DEG RISE	TEMP SETTING	ELEC VOLT/PHASE	EXPANSION TANK ACCPETANCE (GAL)
WHT-1	ELECTRIC STORAGE	AOS DEN-40	40	--	--	6.0	31	110	208/1	5
WHT-2	ELECTRIC STORAGE	AO SMITH DEN-20	20	--	--	6.0	31	110	208/1	2.5
1. PROVIDE ARMSTRONG LST EXP TANK AND T&P SET AT 150 PSI DISCHARGE TO HUB DRAIN. DO NOT ROUTE INTO DRAIN PAN.										
2. PROVIDE 2" DEEP DRAIN PAN BENEATH STORAGE TYPE WATER HEATER TO ENCASE ENTIRE WATER HEATER FOOTPRINT.										
3. WHT-2 PROVIDE SUSPENDED ACCESSORY DRAIN PAN/WATER HEATER SUPPORT- HOLD-RITE QUIK-STAND MODLE 50HWP OR EQ.										

KEY NOTES SUPPLY MAIN FLOOR PLAN

- DOMESTIC COLD WATER CONTINUES TO MAIN. INVERT ELEVATION = -2 FT MIN.
- NATURAL GAS CONTINUES TO MAIN. INVERT ELEVATION = -2 FT MIN.
- 3/4" DOMESTIC COLD WATER DOWN IN WALL TO WALL HYDRANT.
- 8" DOMESTIC COLD WATER FOR FIRE PROTECTION SYSTEM CONTINUES TO MAIN. INVERT ELEVATION = -2 FT MIN.
- 8" FIRE PROTECTION. FIRE PROTECTION SYSTEM BY OTHERS.



REVISIONS		
No.	Description	Date

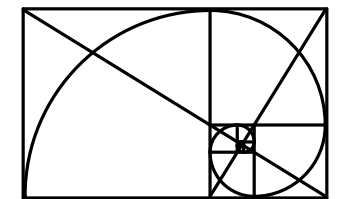
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PLUMBING FLOOR PLAN
OVERHEAD

SOUTHRIDGE
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FREDRICKSBURG, VA 22406

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