

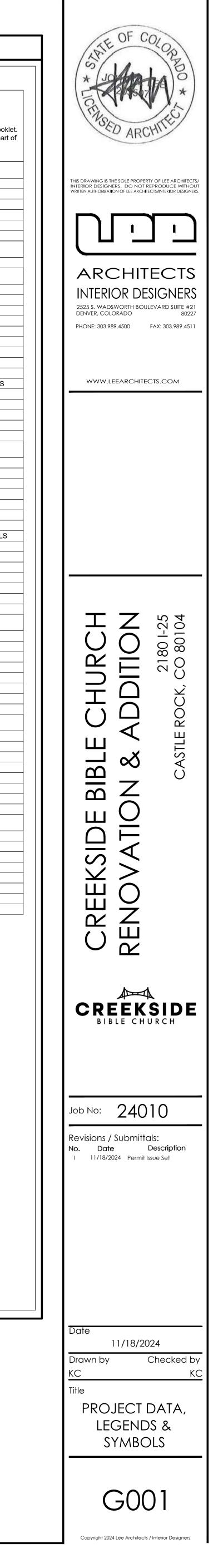
CREEKSIDE BIBLE CH

DATE: 11/18/2024

HURCH DITION 2180 I-25 CO 80104	CREEKSIDE BIBLE CHURCH
	Lee Architects
	Architect
	2525 South Wadsworth Blvd., Suite 21
	Denver, CO 80227 303.989.4500 Voice 303989.4511 Fax
	iBIM Solutions
	6885 N. Oracle Rd, Suite G Tucson, Arizona 85704 303.775.9517 Voice
	CKE Engineering Inc Civil Engineer
	14257 W. Evans Circle Lekewood, CO 80228 303.917.1757 Voice
	Jirsa Hedrick Structural Engineer
	8490 E Crescent Pkwy #250 Greenwood Village, CO 80111 303.839.1963 Voice
	Given & Associates, Inc. Mechanical, Electrical and Plumbing Engineer
	735 South Xenon Court #201 Lakewood, CO 80228 303.716.1270 Voice
	Creekside Bible Church Owner
	2180 I-25 Castle Rock, CO 80104 303.688.3745 Voice
	Volur
	Architectural, Struc
	Mechanical, Plum
PERMIT ISSUE SET	and Ela
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GENERAL NOTES:	DRAWING INDEX:
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CODE ANALYSIS:

2021 INTERNATIONAL EXISTING BUILDING	CODE	
PROJECT ADDRESS: PROJECT DESCRIPTION:	2180 I-25, CASTLE ROCK, CO 80104 DEMOLITION AND RENOVATION OF EXISTING I EDUCATION ROOMS ADDITION. NEW SPACE T RESTROOMS, SUPPORT SPACES, MECHANICAL DISTRIBUTION.	O INCLUDE CLASSROOMS,
CLASSIFICATION OF WORK: OCCUPANCY: CONSTRUCTION TYPE: STORIES: EXISTING BUILDING: NEW ADDITION: TOTAL SQUARE FEET: FIRE PROTECTION: FIRE SPRINKLER NOTE:	IEBC SECTION 606 ADDITIONS A-3 V-B ONE STORY 8,344 SQ. FT. 5,465 SQ. FT. FULLY SPRINKLERED (Deferred Submittal) THE EXISTING BUILDING IS SPRINKLED. THE AD BUILDING SHALL ALSO BE SPRINKLED. SYSTEM EVALUATED FOR COMPLIANCE WITH CURRENT REPLACED OR UPGRADED WHERE REQUIRED	Components shall be
ALLOWABLE STORIES: BUILDING HEIGHT: ALLOWABLE HEIGHT: TABLE 506.2 ALLOWABLE AREA: REQUIRED CONSTRUCTION RATINGS:	TWO STORIES 30'-0''' 60'-0'' 24,000 SQ. FT. PER TABLE 601 AND 602 OF THE 2021 I.B.C. FOR STRUCTURAL FRAMING EXTERIOR BEARING WALLS INTERIOR BEARING WALLS NONBEARING WALLS & PARTITIONS FLOOR CONSTRUCTION ROOF CONSTRUCTION	R TYPE V-B O HOUR O HOUR O HOUR O HOUR O HOUR O HOUR
ENERGY CODE COMPLIANCE PATH:	PERSCRIPTIVE	

MEANS OF EGRESS - CHAPTER 10 SECTION 1005 MEANS OF EGRESS SIZING

1005.1 General. All portions of the means of egress system shall be sized in accordance with this section. Exception: Aisles and aisle accessways in rooms or spaces used for assembly purposes complying with Section1029.

1005.3.2 Other egress components. The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch (5.1 mm) per occupant.

1005.4 Continuity. The minimum width or required capacity of the means of egress required from any story of a building shall not be reduced along the path of egress travel until arrival at the public way. 1005.5 Distribution of minimum width and required capacity. Where more than one exit, or access to more

than one exit, is required, the means of egress shall be configured such that the loss of any one exit, or access to one exit, shall not reduce the available capacity or width to less than 50 percent of the required capacity or width.

1006.2.1.1 Three or more exits or exit access doorways. Three exits or exit access doorways shall be provided from any space with an occupant load of 501 to 1,000. Four exits or exit access doorways shall be provided from any space with an occupant load greater than 1,000.

1006.3.2 Egress based on occupant load. Each story and occupied roof shall have the minimum number of separate and distinct exits, as specified in Table 1006.3.2. A single exit or access to a single exit shall be permitted in accordance with Section 1006.3.3. The required number of exits, or exit access stairways or ramps providing access to exits, from any story or occupied roof shall be maintained until arrival at the exit discharge or a public way.

1007.1.1 Two exits or exit access doorways. Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Interlocking or scissor stairways shall be counted as one exit stairway. Exception 2: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance shall be not less than one-third of the length of the maximum overall diagonal dimension of the area served. MEANS OF EGRESS - CHAPTER 10 (CONT.)

1009.1 Accessible means of egress required. A Accessible spaces shall be provided with not means of egress is required by Section 1006.2 of the space shall be served by not less than t

1010.1 Doors. Means of egress doors shall mee egress system shall meet the requirements of t purposes in numbers greater than required by

1010.1.1 Size of doors. The required capacity of thereof and shall provide a minimum clear with 1010.1.2.1 Direction of swing. Pivot or side-hing

where serving a room or area containing an of 1010.1.5 Floor elevation. There shall be a floor the same elevation on each side of the door. permitted to have a slope not to exceed 0.25

1010.1.6 Landings at doors. Landings shall hav whichever is greater.

1010.1.8 Door arrangement. Space between the of a door swinging into the space. Doors in a space between the doors.

1010.1.10 Panic and fire exit hardware. Swingin serving rooms or spaces with an occupant loc provided with a latch or lock other than panic

1011.1 General. Stairways serving occupied po Sections 1011.2 through 1011.13.

1011.6 Stairway landings. There shall be a floor of landings, measured perpendicularly to the served. Every landing shall have a minimum d width of the stairway or 48 inches, whichever

1011.11 Handrails. Flights of stairways shall hav 1012.2 Slope. Ramps used as part of a means vertical in 12 units horizontal.

1012.8 Handrails. Ramps with a rise greater the comply with Section 1014.

1013.1 Where required. Exits and exit access d from any direction of egress travel.

1014.1 Where required. Handrails serving flight adequate in strength and attachment in acc stairways by Section 1011.11 shall comply with Section 1012.8 shall comply with Sections 1014 aisles required by Section 1029.15 shall comply

1015.2 Where required. Guards shall be locate equipment platforms, aisles, stairs, ramps and measured vertically to the floor or grade belo open side. Guards shall be adequate in streng Exception: Guards are not required for the foll 2. On the audience side of stages and raised platforms.

1018.2 Aisles in assembly spaces. Aisles and opurposes shall comply with Section 1029.

1028.1 General. Exits shall discharge directly to grade or shall provide a direct path of egress

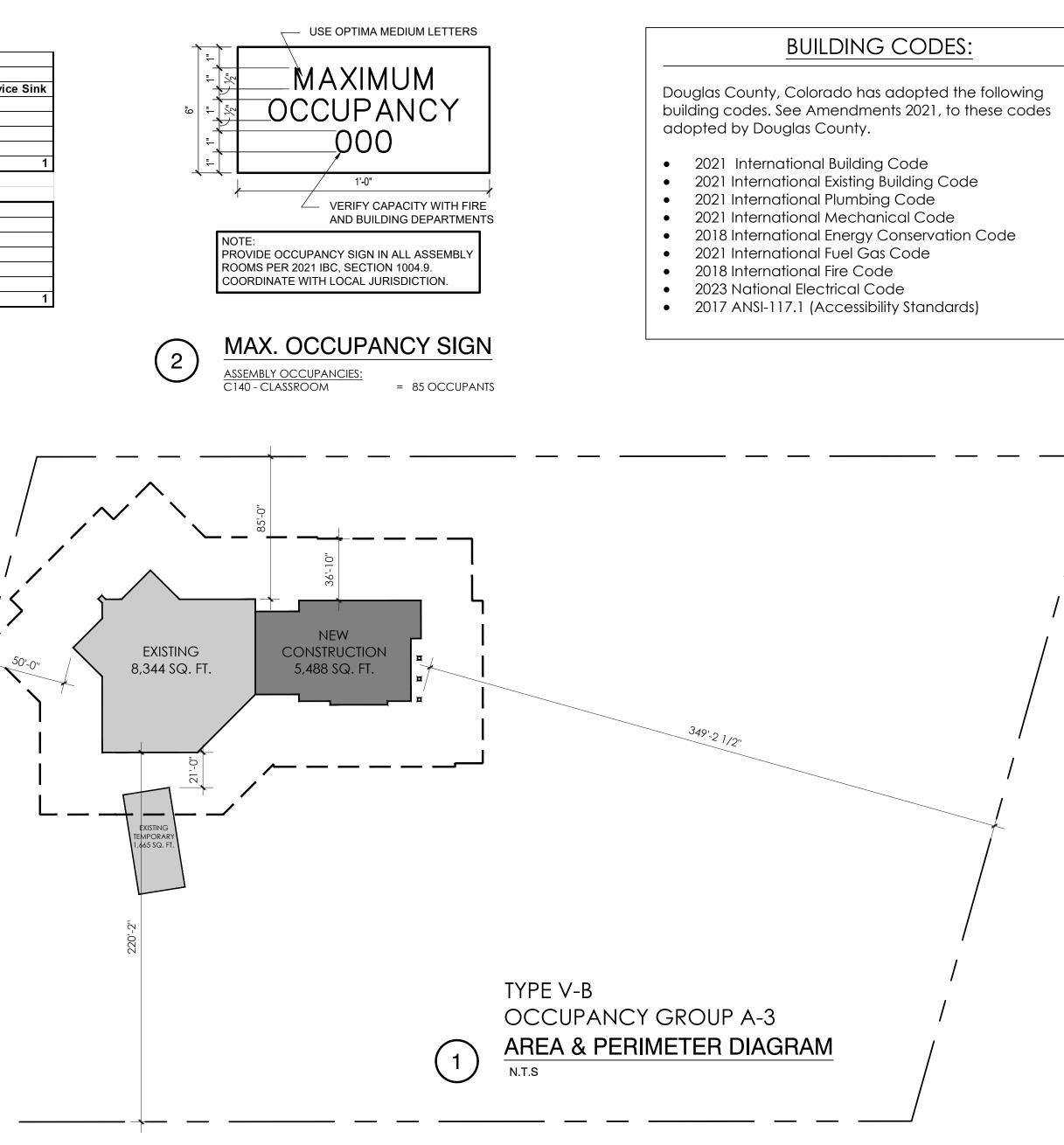
1029.2 Assembly main exit. A building, room or space used for assembly purposes that has an occupant load of greater than 300 and is provided with a main exit, that main exit shall be of sufficient capacity to accommodate not less than one half of the occupant load, but such capacity shall be not less than the total required capacity of all means of egress leading to the exit. Where the building is classified as a Group A occupancy, the main exit shall front on not less than one street or an unoccupied space of not less than 10 feet in width that adjoins a street or public way. In a building, room or space used for assembly purposes where there is not a well-defined main exit or where multiple main exits are provided, exits shall be permitted to be distributed around the perimeter of the building provided that the total capacity of egress is not less than 100 percent of the required capacity.

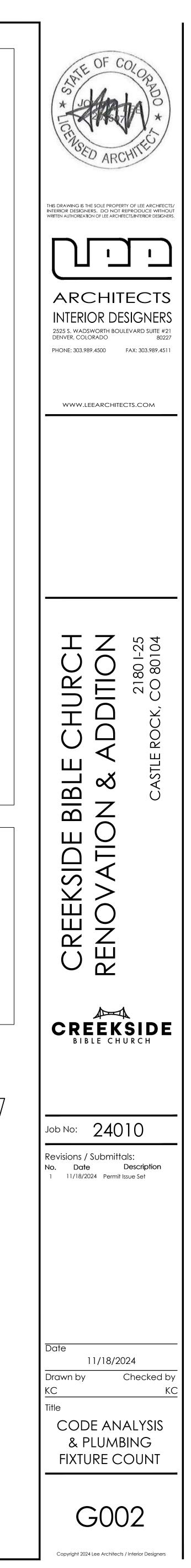
				REQUI	RED A-3			
			1/150N	l, 1/75F	1/200		1/1000	
Gender	700	Occupants	Toilets	Urinals	Lavatories	; ; [DF	Servio
Male		350	1	2	2			
Female		350	5		2			
TOTAL RI	EQ'D	700	6	2	4		1	
			P	ROVIDED	PER PLAN			
Male			2	2	3			
Female			5		5			
Neutral			1		2			
TOTAL PI	ROV'D	-	8	2	10		4	

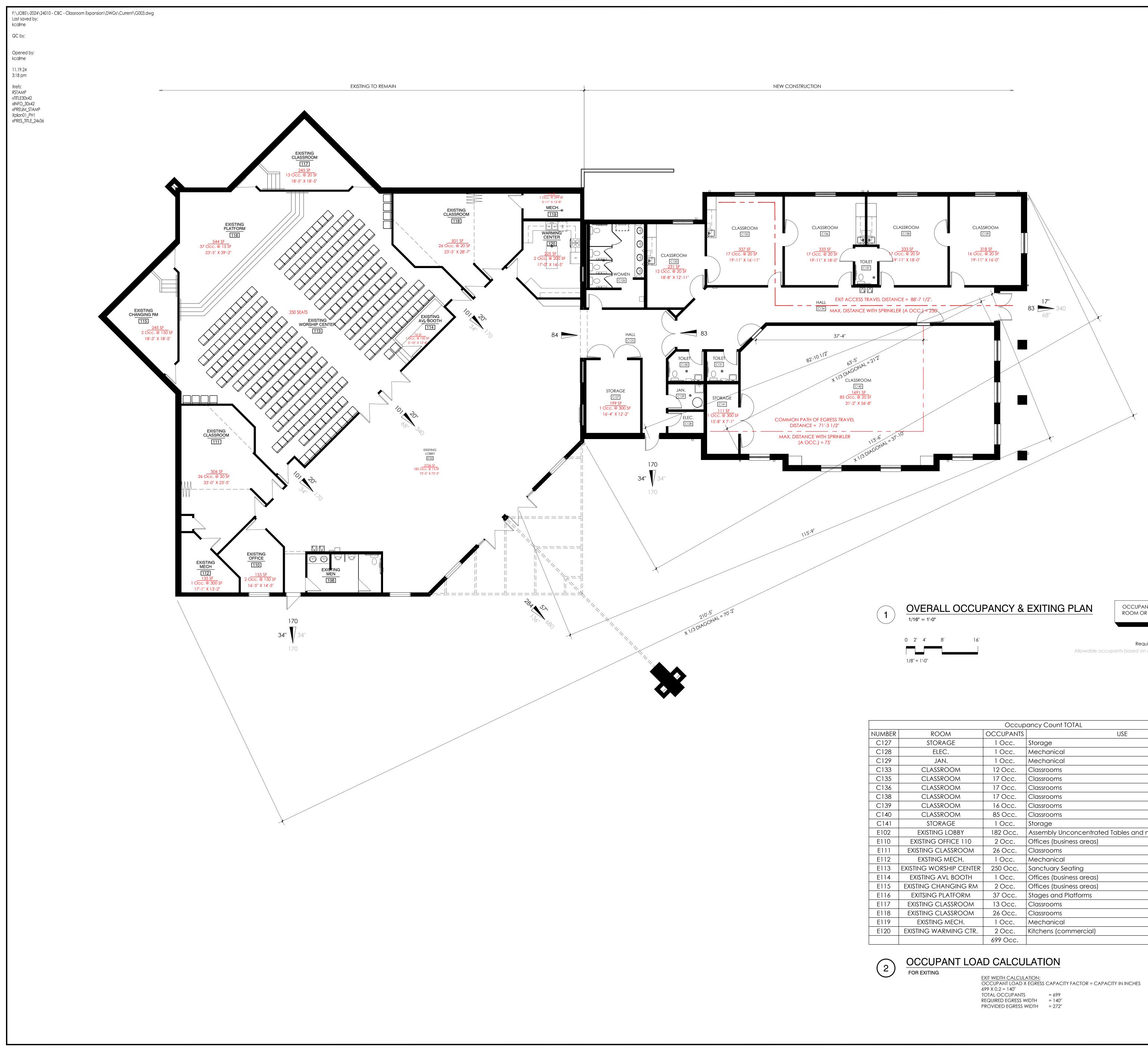


PLUMBING FIXTURE TABLE

	MEANS OF EGRESS - CHAPTER 10 (CONT.)
d. Accessible means of egress shall comply with this section.	MEANS OF EGRESS - CHAPTER 10 (CONT.) 1029.3 Assembly other exits. In addition to having access to a main exit, each level in a building used for
not less than on accessible means of egress. Where more than one 6.2 or 1006.3 from any accessible space, each accessible portion an two accessible means of egress.	assembly purposes having an occupant load greater than 300 and provided with a main exit, shall be provided with additional means of egress that shall provide an egress capacity for not less than one-half of the total occupant load served by that level and shall comply with Section 1007.1. In a building used for assembly purposes where there is not a well-defined main exit or where multiple main exits are provided, exits
neet the requirements of this section. Doors serving a means of of this section and Section 1022.2. Doors provided for egress I by this code shall meet the requirements of this section.	for each level shall be permitted to be distributed around the perimeter of the building, provided that the total width of egress is not less than 100 percent of the required width.
ty of each door opening shall be sufficient for the occupant load width of 32 inches.	1029.7 Travel distance. The exit access travel distance shall comply with Section 1017. Where aisles are provided for seating, the distance shall be measured along the aisles and aisle accessways without travel over or on the seats.
ninged swinging doors shall swing in the direction of egress travel an occupant load of 50 or more persons.	1029.8 Common path of egress travel. The common path of egress travel shall not exceed 30 feet from any seat to a point where an occupant has a choice of two paths of egress travel to two exits. Exceptions: 1. For areas serving less than 50 occupants, the common path of egress travel shall not exceed
por or landing each side of a door. Such floor or landing shall be at por. Landings shall be level except for exterior landings, which are 0.25 unit vertical in 12 units horizontal.	75 feet. ACCESSIBILITY - CHAPTER 11
nave a width not less than the width of the stairway or the door,	1104.1 Site arrival points. Al least on accessible route within the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance served.
en tow doors in a series shall be 48 inches minimum plus the width a series shall swing either in the same direction or away from the	1105.1 Public entrances. In addition to accessible entrances required by Sections 1105.1.1 through 1105.1.7, at least 60 percent of all public entrances shall be accessible.
nging doors serving a Group H occupancy and swinging doors load of 50 or more in a Group A or E occupancy shall not be anic hardware or fire exit hardware.	1106.1 Required. Where parking is provided, accessible parking spaces shall be provided in compliance with Table 1106.1, except as required by Sections 1106.2 through 1106.4. Where more than one parking facility is provided on a site, the number of parking spaces required to be accessible shall b e calculated separately or each parking facility.
portions of a building shall comply with the requirements of	1108.2.2.1 General seating. Wheelchair spaces shall be provided in accordance with Table 1108.2.2.1.
oor or landing at the top and bottom of each stairway. The width he direction of travel, shall be not less than the width of stairways	1108.2.7 Assistive listening systems. Each building, room or space used for assembly purposes where audible communications are integral to the use of the space shall have an assistive listening system.
n depth, measured parallel to the direction of travel, equal to the er is less.	1109.2 Toilet and bathing facilities. Each toilet room and bathing room shall be accessible.
nave handrails on each side and shall comply with Section 1014.	accessible family or assisted-use toilet room shall be provided where an aggregate of six or more male and female water closets is required.
ns of egress shall have a running slope not steeper than one unit	INTERIOR ENVIRONMENT - CHAPTER 12 1202.1 General. Buildings shall be provided with natural ventilation in accordance with Section 1202.5, or mechanical ventilation in accordance with the International Mechanical Code.
than 6 inches shall have handrails on both sides. Handrails shall	
s doors shall be marked by an approved exit sign readily visible	1203.1 Equipment and systems. Interior spaces intended for human occupancy shall be provided with active or passive space heating systems capable of maintaining an indoor temperature of not less than 68°F (20°C) at a point 3 feet above the floor on the design heating day.
ghts of stairways, ramps, stepped aisles and ramped aisles shall be accordance with Section 1607.8. Handrails required for flights of with Sections 1014.2 through 1014.9. Handrails required for ramps by 014.2 through 1014.8. Handrails for stepped aisles and ramped	1204.1 General. Every space intended for human occupancy shall be provided with natural light by means o exterior glazed openings in accordance with Section 1204.2 or shall be provided with artificial light in accordance with Section 1204.3. Exterior glazed openings shall open directly onto a public way or onto a yard or court in accordance with Section 1205.
nply with Sections 1014.2 through 1014.8. ated along open-sided walking surfaces, including mezzanines,	FIRE PROTECTION SYSTEMS - CHAPTER 9 901.2 Fire Protection Systems. Fire protection systems shall be installed, repaired, operated and maintained in accordance with this code and the International Fire Code.
nd landings that are located more than 30 inches (762 mm) elow at any point within 36 inches horizontally to the edge of the ength and attachment in accordance with Section 1607.8. following locations:	901.6.1 Automatic Sprinkler Systems. Automatic sprinkler systems shall be monitored by an approved supervising station.
ed platforms, Including stairs leading up to the stage and raised	901.6.3 Fire Alarm Systems. Fire alarm systems required by the provisions of Section 907.2 of this code and Sections 907.2 and 907.9 of the International Fire Code shall be monitored by an approved supervising station
d aisle accessways serving a room or space used for assembly	in accordance with Section 907.6.6. Fire Sprinkler System plans, hydraulic calculations and equipment specifications shall be submitted as a
y to the exterior of the building. The exit discharge shall be at ess travel to grade. The exit discharge shall not reenter a building.	FIRE ALARM NOTE:
n or space used for assembly purposes that has an occupant load	A voice fire alarm system will be installed per chapter 9 requirements. Fire alarm is a deferred submittal.
main exit, that main exit shall be of sufficient capacity to e occupant load, but such capacity shall be not less than the total eading to the exit. Where the building is classified as a Group A t less than one street or an unoccupied space of not less than 10 way. In a building, room or space used for assembly purposes	PUBLIC SAFTEY RADIO (BDA) AMPLIFICATION SYSTEM: Testing required to determine if a BDA is required in the building.



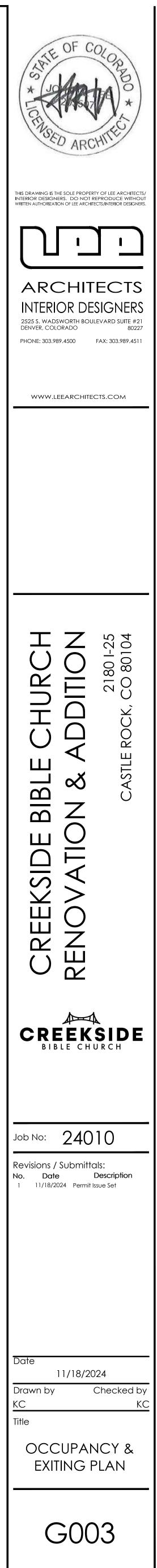




OCCUPANT LOADS ARE CALCULATED PER ROOM OR AREA USE PER TABLE 1004.5

Required Width based on actual occupants Allowable occupants based on actual width Actual Occupants Actual Width provided

		Occup	ancy Count TOTAL	
NUMBER	ROOM	OCCUPANTS	USE	
C127	STORAGE	1 Occ.	Storage	300
C128	ELEC.	1 Occ.	Mechanical	300
C129	JAN.	1 Occ.	Mechanical	300
C133	CLASSROOM	12 Occ.	Classrooms	20
C135	CLASSROOM	17 Occ.	Classrooms	20
C136	CLASSROOM	17 Occ.	Classrooms	20
C138	CLASSROOM	17 Occ.	Classrooms	20
C139	CLASSROOM	16 Occ.	Classrooms	20
C140	CLASSROOM	85 Occ.	Classrooms	20
C141	STORAGE	1 Occ.	Storage	300
E102	EXISTING LOBBY	182 Occ.	Assembly Unconcentrated Tables and non Fixed Seats	15
E110	EXISTING OFFICE 110	2 Occ.	Offices (business areas)	150
E111	EXISTING CLASSROOM	26 Occ.	Classrooms	20
E112	EXSTING MECH.	1 Occ.	Mechanical	300
E113	EXISTING WORSHIP CENTER	250 Occ.	Sanctuary Seating	
E114	EXISTING AVL BOOTH	1 Occ.	Offices (business areas)	150
E115	EXISTING CHANGING RM	2 Occ.	Offices (business areas)	150
E116	EXITSING PLATFORM	37 Occ.	Stages and Platforms	15
E117	EXISTING CLASSROOM	13 Occ.	Classrooms	20
E118	EXISTING CLASSROOM	26 Occ.	Classrooms	20
E119	EXISTING MECH.	1 Occ.	Mechanical	300
E120	EXISTING WARMING CTR.	2 Occ.	Kitchens (commercial)	200
		699 Occ.		



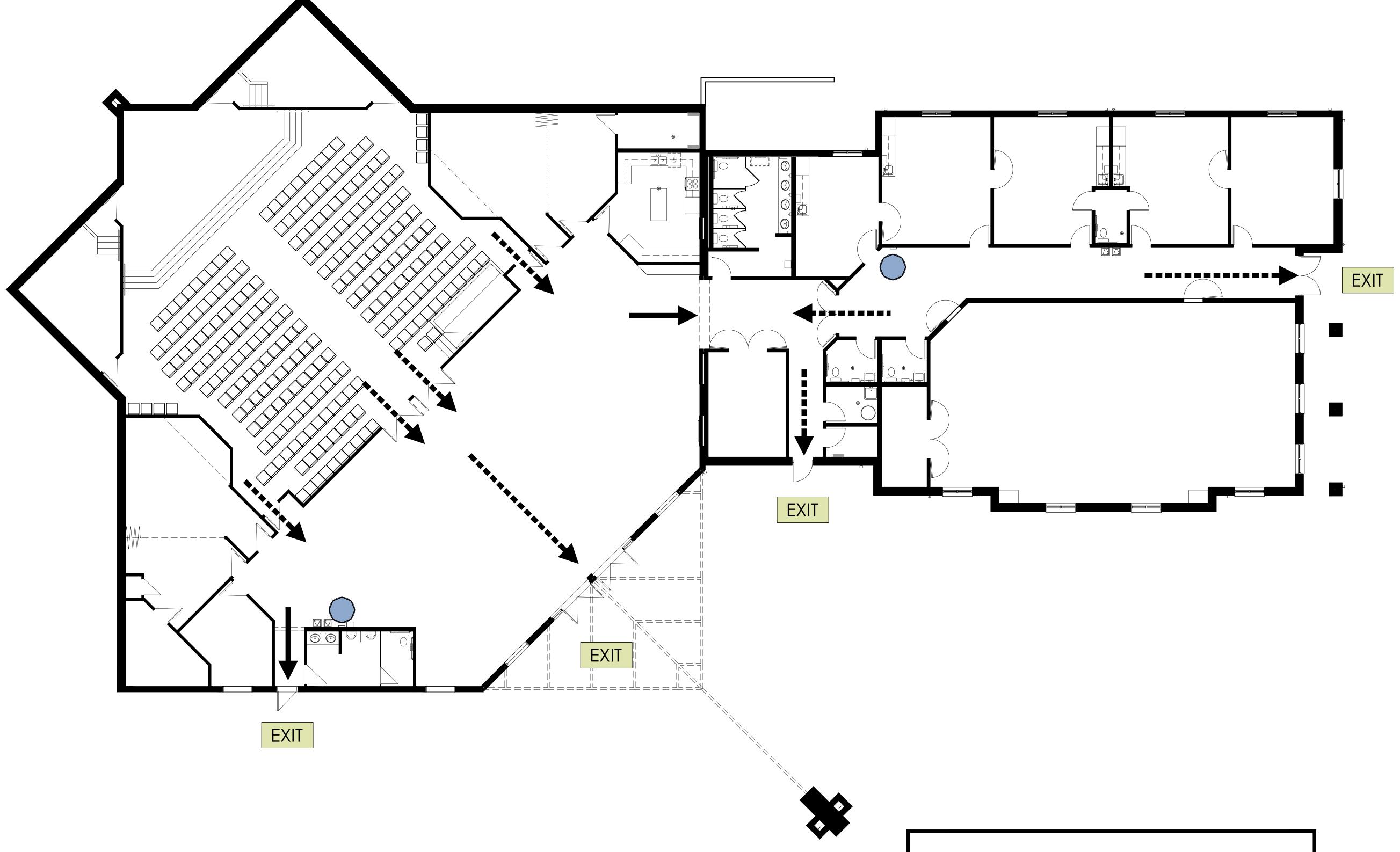
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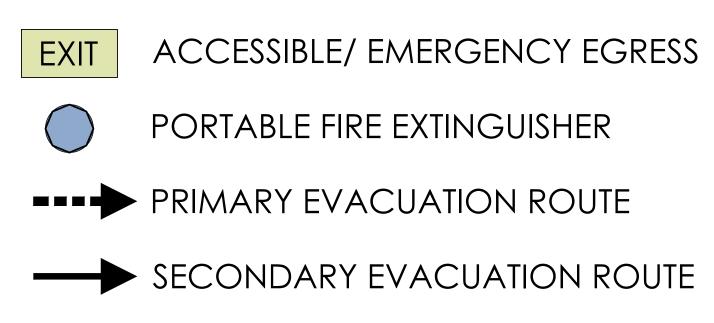
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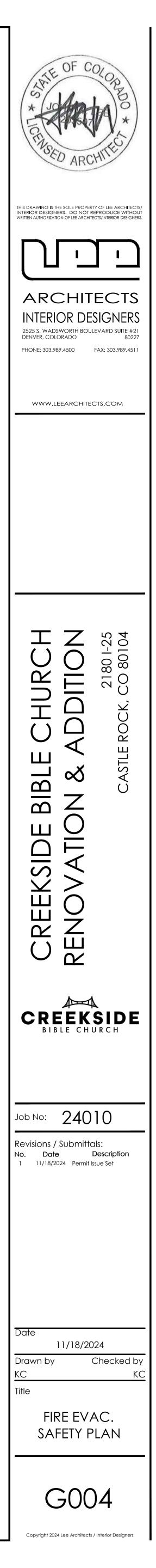
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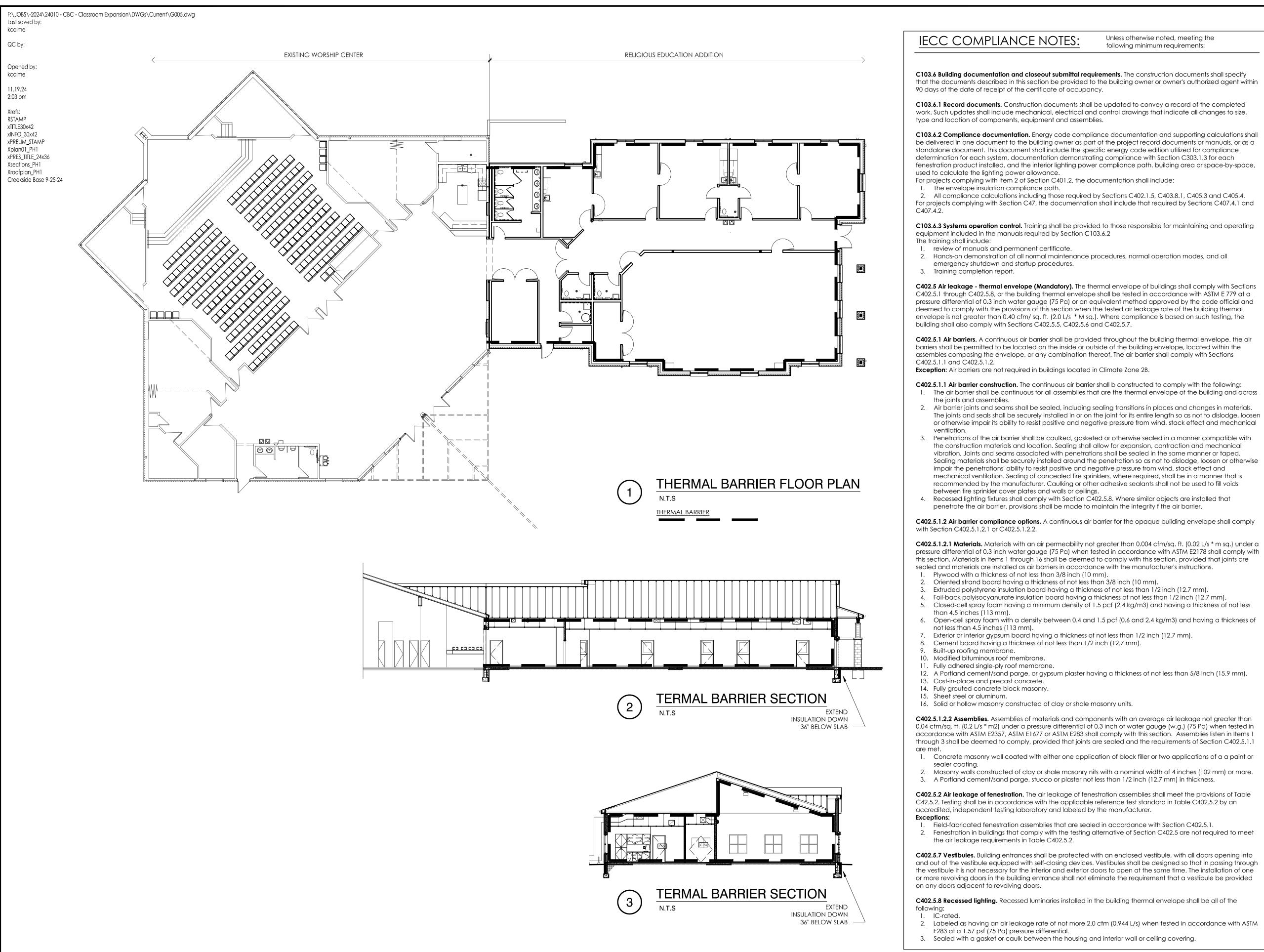


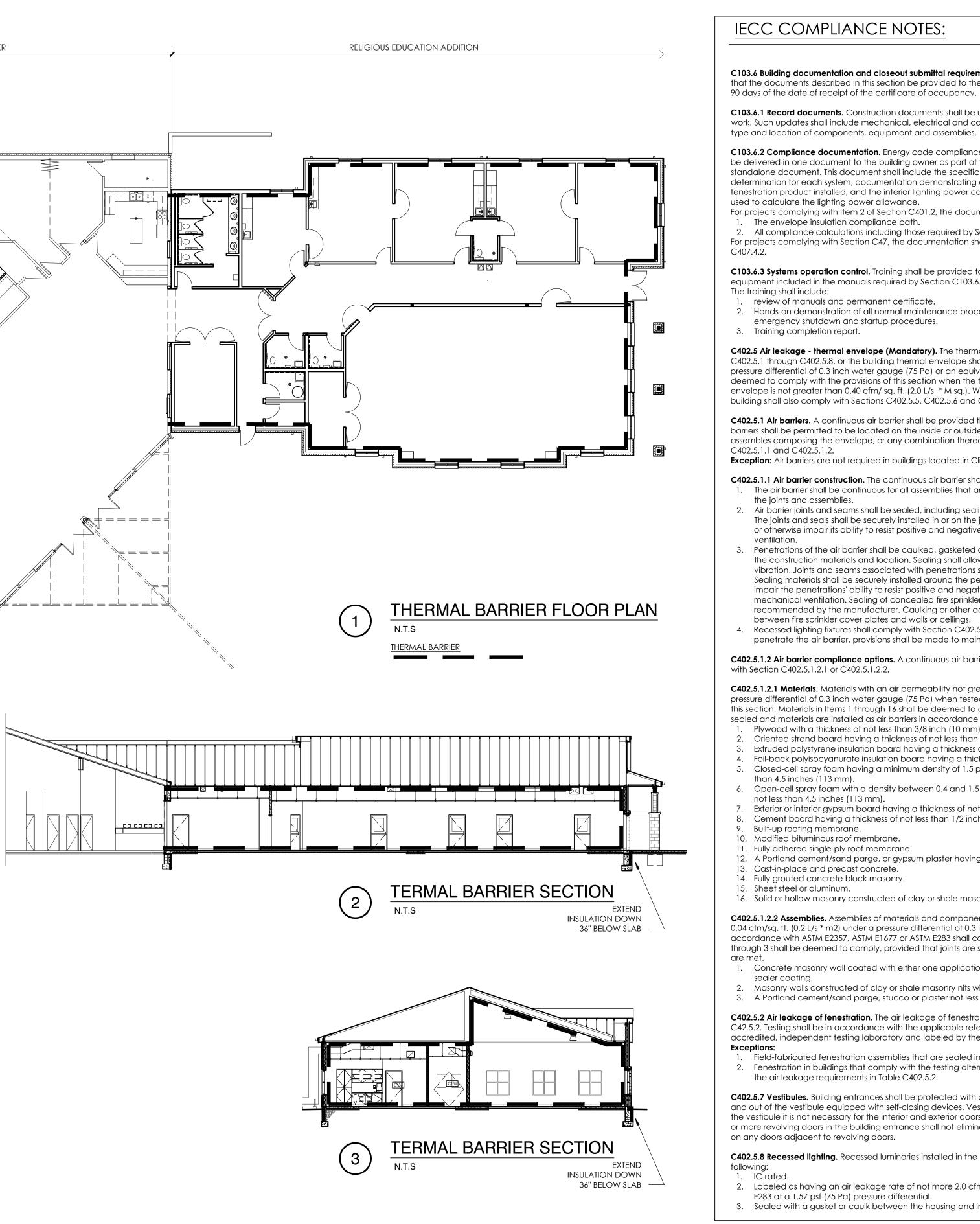












DESCRIPTION: Roofs

Attic and other Walls, above grade Metal framed Slab-on-grade floors

Unheated slabs

Alum. Storefront Windows

Insulated Metal Doors

DESCRIPTION:

R-38 (Batt) 0.027 U-Factor

R-VALUE / U-FACTOR:

U-FACTOR / SHGC: 0.60 U-Factor

R-19 (Batt) + R12 ci 0.033 U-Factor R-8 (2" Polyiso) 0.125 U-Factor

0.28 U-Factor 0.38

EOD EENESTDATION ASSEMDLIES FENESTRATION Windows Sliding doors Swinging doors Skylights - with condensation openings Skylights - all Curtain walls Storefront glazi Commercial gl swinging ent doors Power-operated doors and po operated fold Revolving doors

arage doors Rolling doors High-speed do

TABLE C402.5.2 MAXIMUM AIR LEAKAGE RATE

FOR FENES	STRATION ASS	EMBLIES
NASSEMBLY	MAXIMUM RATE (CFM/FT ²)	TEST PROCEDURE
	0.20 ^a	
	0.20 ^a	
rs	0.20 ^a	AAMA/WDMA/ CSA101/I.S.2/A440
th n weepage	0.30	or NFRC 400
other	0.20 ª	
	0.06	
zing	0.06	
lazed itrance	1.00	NFRC 400 or ASTM E283 at 1.57 psf
ed sliding ower- ding doors	1.00	(75 Pa)
ors	1.00	
	0.40	ANSI/DASMA 105,
	1.00	NFRC 400, or ASTM E283 at 1.57 psf
oors	1.30	(75 Pa)

CLIMATE ZONE	1		2		3			CEPT RINE	5 AND MARINE 4		6		7		8	
	4	1			·	Vertical	fenestra	tion	1	1			1			
U-factor																
Fixed fenestration	0.	0.50 0.50		50	0.46		0.	0.38 0.38		38	0.36		0.29		0.29	
Operable fenestration	0.	65	0.	65	65 0.60		0.	45	0.45		0.43		0.37		0.37	
Entrance doors	1.10		0.83 0.77		77	0.77 0.77		0.77		0.77		0.77				
SHGC	1	1			1.	1	1		L .	1	I		A .			
Orientation ^a	SEW	N	SEW	N	SEW	N	SEW	N	SEW	N	SEW	Ν	SEW	Ν	SEW	N
PF < 0.2	0.25	0.33	0.25	0.33	0.25	0.33	0.36	0.48	0.38	0.51	0.40	0.53	0.45	NR	0.45	N
$0.2 \le \mathrm{PF} < 0.5$	0.30	0.37	0.30	0.37	0.30	0.37	0.43	0.53	0.46	0.56	0.48	0.58	NR	NR	NR	NR
$PF \ge 0.5$	0.40	0.40	0.40	0.40	0.40	0.40	0.58	0.58	0.61	0.51	0.64	0.64	NR	NR	NR	NR
	1			1	1	Sk	ylights	1	1				1		1	1
U-factor	0.	75	0.	65	0.	55	0.	50	0.	50	0.50		0.50		0.:	50
SHGC	0.35		0.	35	0.35		0.40		0.40		0.40		NR		NR	

Unless otherwise noted, meeting the following minimum requirements:



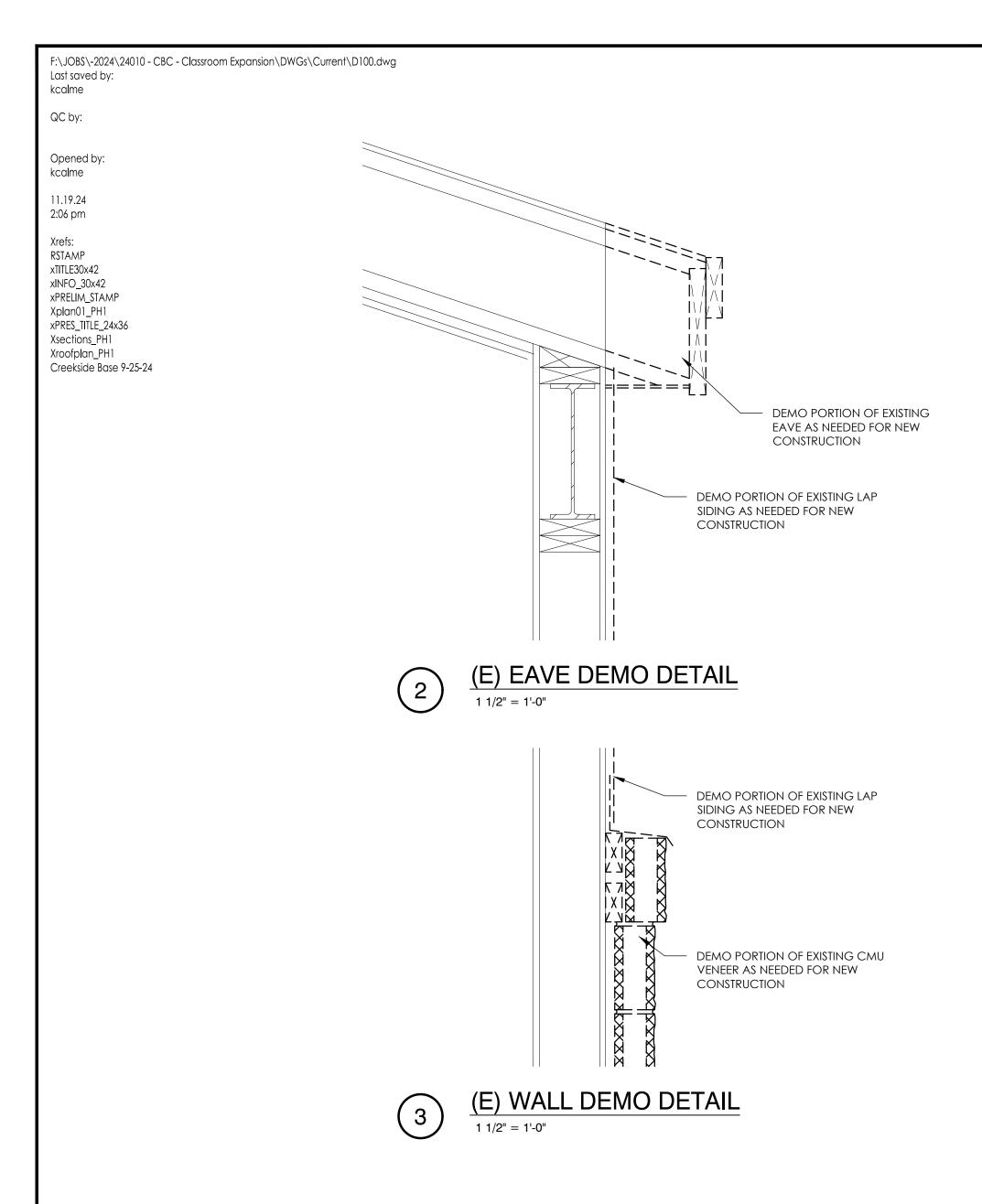
Project Information						
Erergy Code:	2018 IECC					
Project Title:	Creekside Bible Churc	h Renovation	and Clas	sroom Add	tion	
Location:	Castle Rock, Colorado					
Climate Zone: Project Type:	5b Addition					
Vertical Glazing / Wall Area	9%					
Construction Site:	Owner/Agent:			gner/Contra	actor:	
2180 I-25 Castle Rock, Colorado 80104	Charles Vaughan Creekside Bible Chu	rch		vin Calme Architects		
	2180 I-25 Castle Rock, Colora		25 De		adsworth Bou	ule
					chitects.com	
Building Area		Floor /	Area			
1-Church (Religious Building) : No	nresidential	5	465	755		
Envelope Assemblies						
Assemb	ly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	ļ
Roof: Attic Roof, Wood Joists, [Bldg South Ext. Wal: Steel-Framed, 16in		5984	38.0	0.0	0.027	
Church] Window: Meta Frame with Therma	l Break: Fixed, Perf. Specs.:	1284 93	19.0	12.0	0.047 0.280	
Product ID 4644, SHGC 0.38, [Bldg Door: Insulated Metal, Swirging, [E		24			0.600	
East Ext. Wall: Steel-Framed, 16in.	o.c., [Bldg. Use 1 - Church]	806	19.0	12.0	0.047	
Window: Meta Frame with Therma Product ID 4644, SHGC 0.38, [Bldg	I Break: Fixed, Perf. Specs.: . Use 1 - Church1 'b)	93			0.280	
Door: Insulated Metal, Swirging, [Bldg. Use 1 - Church]	46			0.600	
North Ext. Wall: Steel-Framed, 16in		1282	19.0	12.0	0.047	
Window: Meta Frame with Therma Product ID 4644, SHGC 0.38, [Bldg	. Use1 - Church] (b)	117			0.280	
Floor: Unheated Slab-On-Grade, Ve Church] (c)	ertical 3 ft., [Bldg.Use 1 -	274		8.0	0.526	
(a) Budget U-factors are used fo (b) Fenestration product perform (c) Slab-On-Grade proposed and	nance must be certified in acco	rdance with NF	RC and re			hen
Project Title: Creekside Bible Ch Data filename:	urch Renovation and Classroor	n Addition			Report Pa	

Kevin Calme, Project Manager	Kun Calme	11/18/2024
Name - Title	Signature	Date

		OPAG	QUE THEF		ELOPE IN	SULATIO		C402.1.3 NEN⊺ MIN		QUIREME	NTS, R-VA		HOD ^{a, i}			
CLIMATE ZONE		1		2	3		4 EXCEP			IARINE 4	1	ĵ	7		8	3
CLIMATE ZONE	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
							Ro	ofs								
Insulation entirely above roof deck	R-20ci	R-25ci	R-25ci	R-25ci	R-25ci	R-25ci	R-30ci	R-30ci	R-30ei	R-30ci	R-30ci	R-30ci	R-35ci	R-35ci	R-35ci	R-35ci
Metal buildings ^b	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-25 + R-11 LS	R-25 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS
Attic and other	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-49						
	J ;	1	I	I	1		Walls, ab	ove grade			1					
Mass ^g	R-5.7ci ^c	R-5.7ci ^c	R-5.7ci ^c	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci	R-25ci
Metal building	R-13+ R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	R-13 + R-6.5ci	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-13ei	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-13ci	R-13+ R-19.5ci	R-13 + R-13ci	R-13+ R-19.5ci
Metal framed	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-15.6ci	R-13 + R-7.5ci	R-13+ R17.5ci
Wood framed and other	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R13 + R-15.6ci or R-20 + R-10ci	R13 + R-15.6ci or R-20 + R-10ci
1		•					Walls, be	low grade				4	4 :			
Below-grade wall ^d	NR	NR	NR	NR	NR	NR	R-7.5ci	R-7.5ci	R-7.5ci	R-7.5ci	R-7.5ci	R-7.5ci	R-10ci	R-10ci	R-10ci	R-12.5ci
	1						Flo	ors			1		1			
Mass ^e	NR	NR	R-6.3ci	R-8.3ci	R-10ci	R-10ci	R-10ci	R-10.4ci	R-10ci	R-12.5ci	R-12.5ci	R-12.5ci	R-15ci	R-16.7ci	R-15ci	R-16.7ci
Joist/framing	NR	NR	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30 ^f				
	- I	1					Slab-on-g	rade floors			1	1	1			
Unheated slabs	NR	NR	NR	NR	NR	NR	R-10 for 24" below	R-15 for 24" below	R-20 for 24" below							
Heated slabs ³	R-7.5 for 12" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-15 for 24" below - R-5 full slab	R-15 for 24" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-20 for 48" below + R-5 full slab							
	-t	L			1	L	Opaqu	e doors		1	1	1	L	L		
Nonswinging	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75

TABLE C402.1.3

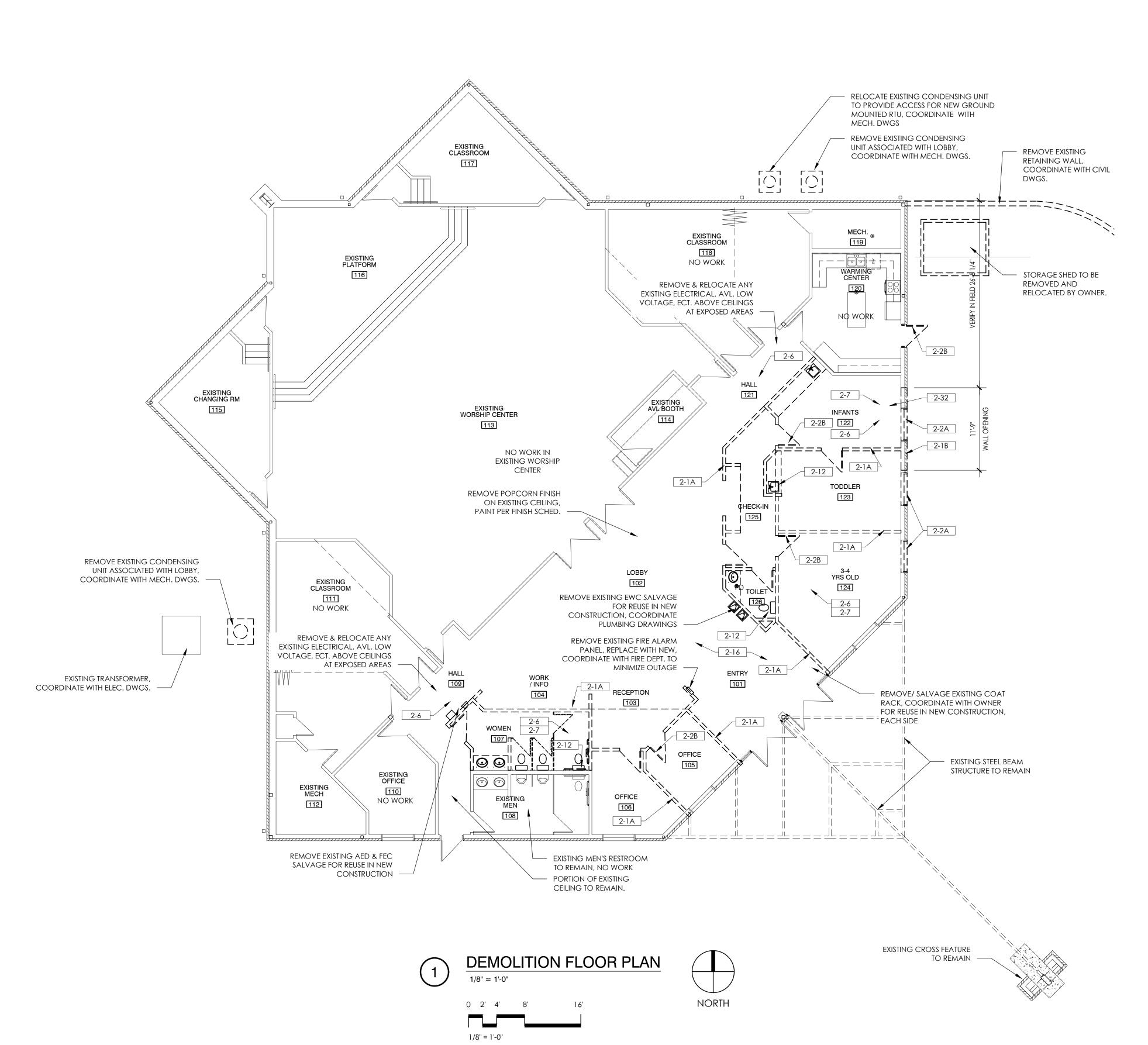


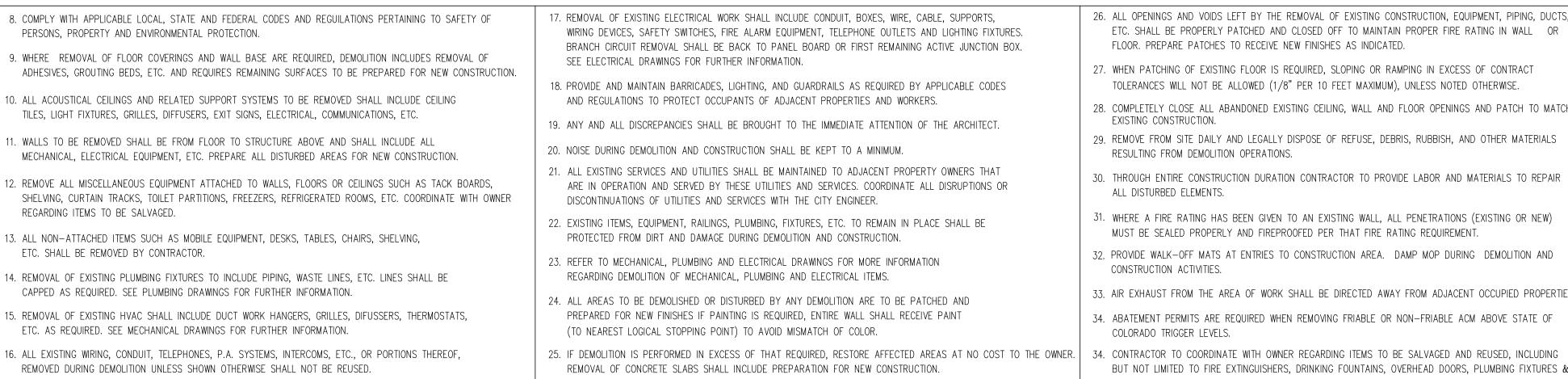


DEMOLITION GENERAL NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION RELATED CONDITIONS PRIOR TO STARTING DEMOLITION.
- 2. CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE BUILDING IN WEATHER TIGHT CONDITION.
- 3. ALL SITE DEMOLITION ACTIVITIES SHALL BE COORDINATED WITH THE CITY ENGINEER TO MINIMIZE DISRUPTION OF THE ADJACENT PROPERTIES. CONSTRUCTION ACTIVITIES SHALL BE DURING NORMAL BUSINESS HOURS UNLESS COORDINATED IN ADVANCE WITH THE CITY ENGINEER AND ADJACENT PROPERTY OWNERS.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO PROPERTIES ADJACENT TO WORK AREAS AND IS RESPONSIBLE FOR DAMAGE CAUSED BY NATURAL FORCES.
- 5. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING FROM THE BUILDING AND THE CONSTRUCTION SITE ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT RETAINED BY THE OWNER.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL SALVAGE ITEMS WHICH WILL BE REUSED.
- 7. TEMPORARY BARRICADES SEPARATING CONSTRUCTION ACTIVITIES SHALL BE INSTALLED TO PREVENT POSSIBLE INJURY TO PERSONS IN AND AROUND DEMOLITION AND CONSTRUCTION AREAS IN ACCORDANCE WITH OSHA REQUIREMENTS. COORDINATE WITH THE CITY ENGINEER. DUST PARTITIONS SHALL BE INSTALLED. IN ACCORDANCE WITH OSHA FIRE PROTECTION AND EGRESS REQUIREMENTS. ON COMPLETION OF WORK, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT MATERIALS.

- PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
- TILES, LIGHT FIXTURES, GRILLES, DIFFUSERS, EXIT SIGNS, ELECTRICAL, COMMUNICATIONS, ETC.
- REGARDING ITEMS TO BE SALVAGED.
- 13. ALL NON-ATTACHED ITEMS SUCH AS MOBILE EQUIPMENT, DESKS, TABLES, CHAIRS, SHELVING, ETC. SHALL BE REMOVED BY CONTRACTOR.
- ETC. AS REQUIRED. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- REMOVED DURING DEMOLITION UNLESS SHOWN OTHERWISE SHALL NOT BE REUSED.





DRAWING NOTES

1-11	DIMENSIONS ARE NOMINAL AND ARE TO GRID LIN OR FACE OF GYP BD, MASONRY OR CONCRETE UNO. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTU, WALL THICKNESSES.
2-1A	REMOVE EXISTING INTERIOR WALL CONSTRUCTION AS SHOWN. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF ITEMS LOCATED IN THESE WALLS. REFER TO NEW CONSTRUCTION FOR EXTENT OF VERTICAL DEMOLITION AND POSSIBLE SALVAGE ITEMS.
2-1B	REMOVE EXISTING EXTERIOR WALL CONSTRUCTION AS SHOWN. FIELD VERIFY EXISTING STRUCTURAL COMPONENTS IN WALL AND VERIFY WITH STRUCTURAL ENGINEER. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF ITEMS LOCATED IN THESE WALLS. REFER TO NEW CONSTRUCTION FOR EXTENT OF VERTICAL DEMOLITION AND POSSIBLE SALVAGE ITEMS.
2-2A	REMOVE EXISTING WINDOW AND FRAME. PREP FOR NEW CONSTRUCTION. SALVAGE AND RE- INSTALL AS INDICATED.
2-2B	REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
2-6	REMOVE PORTION OF EXISTING CEILING SYSTEM ABOVE AS REQ'D FOR NEW CONSTRUCTION. RE: ELEC / MECH DRAWINGS ON RECONFIGURING EXISTING BUILDING SYSTEMS.
2-7	REMOVE EXISTING FLOOR FINISH AND PREP FOR NEW FINISH.
2-12	REMOVE EXISTING TOILET AND WALL BRACKET, CA EXISTING PLUMBING STUBS IN WALL AND BENEATH FLOOR.
2-14	SALVAGE EXISTING FIRE EXTENGUISHERS AND CABINETS FOR RE-USE IN NEW PLAN.
2-16	OWNER SHALL REMOVE ALL EXISTING FURNITURE, DISPLAY STANDS, NON-ATTACHED ITEMS ETC. GC TO REMOVE BUILT-IN CASEWORK, MILLWORK ITEMS TOILET ROOM ACCESSORIES, ETC. PROTECT ITEMS DESIGNATED FOR RE-USE IN NEW PLAN.
2-18	PROTECT EXISTING WALLS/ HALF WALLS DURING CONSTRUCTION, TYP.
2-20	EXISTING COLUMN AND STRUCTURAL MEMBERS TO REMAIN. PROTECT DURING CONSTRUCTION.
2-21	EXISTING GYP. AND LAY-IN CEILINGS TO REMAIN. PROTECT DURING CONSTRUCTION. PATCH/ REPAIR AS REQ'D. TO HAVE LIKE NEW APPEARANCE.
2-24	PROTECT EXISTING STOREFRONT SYSTEM DURING CONSTRUCTION, TYP.
2-26	PROTECT EXISTING CARPET NOT OTHERWISE INDICATED FOR REMOVAL DURING CONSTRUCTIO AS REQUIRED.
2-29	PROTECT EXISTING DOWNSPOUTS AND UNDERGROUND DRAINAGE. TIE INTO NEW

2-32 PROTECT EXISTING SLAB

26. ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED AND CLOSED OFF TO MAINTAIN PROPER FIRE RATING IN WALL OR FLOOR. PREPARE PATCHES TO RECEIVE NEW FINISHES AS INDICATED.

7. WHEN PATCHING OF EXISTING FLOOR IS REQUIRED, SLOPING OR RAMPING IN EXCESS OF CONTRACT TOLERANCES WILL NOT BE ALLOWED (1/8" PER 10 FEET MAXIMUM), UNLESS NOTED OTHERWISE.

28. COMPLETELY CLOSE ALL ABANDONED EXISTING CEILING, WALL AND FLOOR OPENINGS AND PATCH TO MATCH 29. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS

RESULTING FROM DEMOLITION OPERATIONS. 30. THROUGH ENTIRE CONSTRUCTION DURATION CONTRACTOR TO PROVIDE LABOR AND MATERIALS TO REPAIR

31. WHERE A FIRE RATING HAS BEEN GIVEN TO AN EXISTING WALL, ALL PENETRATIONS (EXISTING OR NEW) MUST BE SEALED PROPERLY AND FIREPROOFED PER THAT FIRE RATING REQUIREMENT.

32. PROVIDE WALK-OFF MATS AT ENTRIES TO CONSTRUCTION AREA. DAMP MOP DURING DEMOLITION AND 33. AIR EXHAUST FROM THE AREA OF WORK SHALL BE DIRECTED AWAY FROM ADJACENT OCCUPIED PROPERTIES.

34. ABATEMENT PERMITS ARE REQUIRED WHEN REMOVING FRIABLE OR NON-FRIABLE ACM ABOVE STATE OF

BUT NOT LIMITED TO FIRE EXTINGUISHERS, DRINKING FOUNTAINS, OVERHEAD DOORS, PLUMBING FIXTURES & FITTINGS, DOORS & HARDWARE, BATHROOM ACCESSORIES, ETC ...

NOTE: ALL CONTRACTORS SHALL BE CAUTIONED THAT THERE ARE EXTENSIVE AUDIO VISUAL SYSTEMS AND THEATRICAL LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT. CARE MUST BE TAKEN TO MINIMIZE ANY INTERACTION BETWEEN THE AV SYSTEMS AND M & E SYSTEMS THROUGH CONDUIT OR BY OTHER MEANS



O GRID LINE ONCRETE SIONS ARE FOR ACTUA

ISTRUCTION ANICAL, s for SE WALLS. TENT OF ALVAGE

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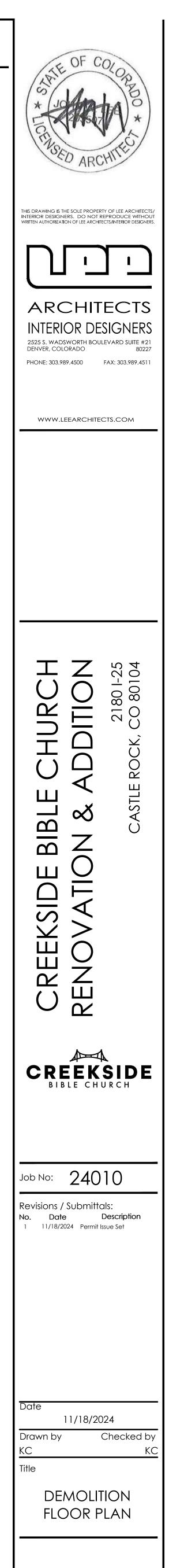
URNITURE, SETC. GC WORK ITEMS, IECT ITEMS

EMBERS TO TION. REMAIN. CH/ REPAIR NCE.

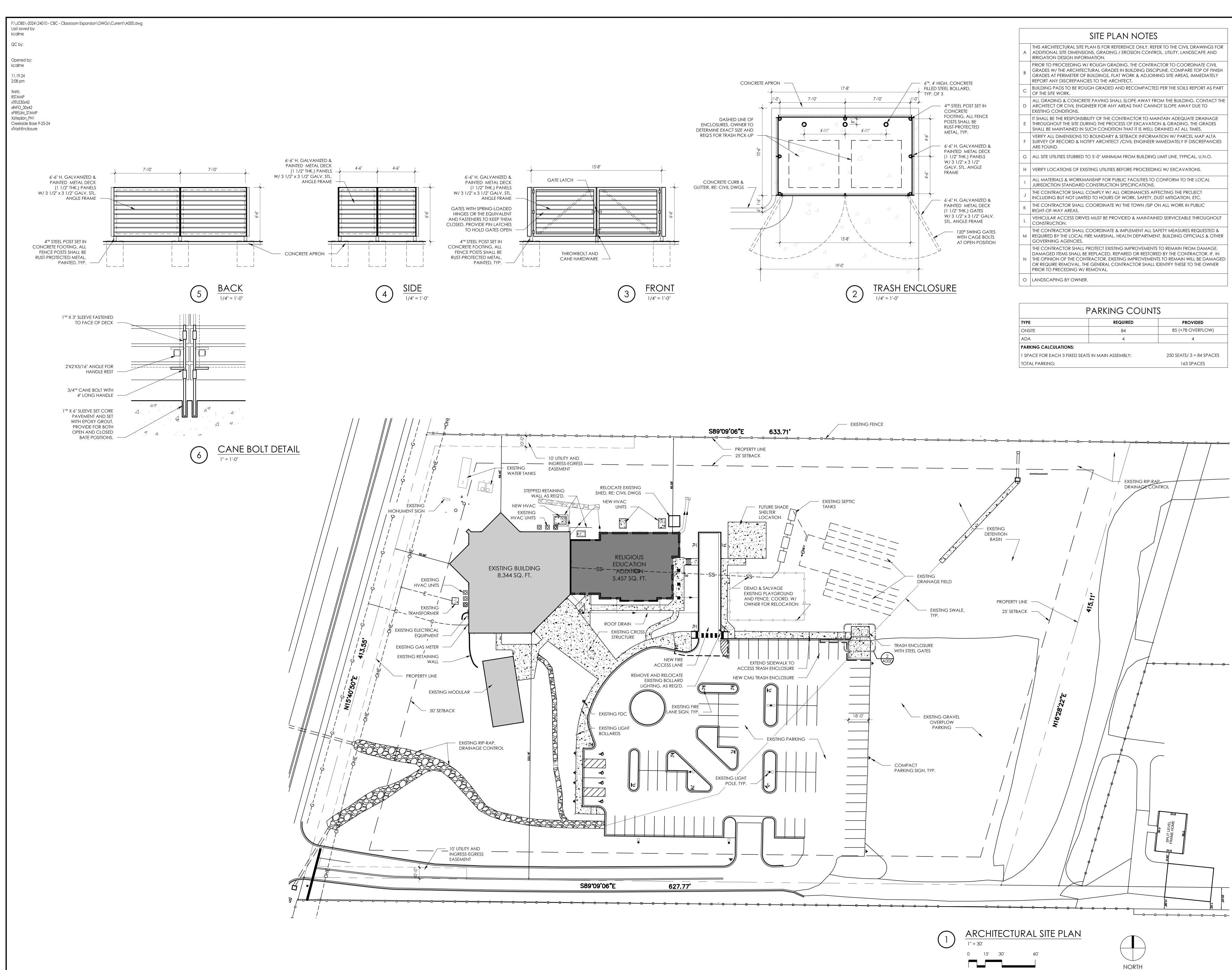
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IEW DRAINAGE SYSTEM, RE: CIVIL DRAWINGS.



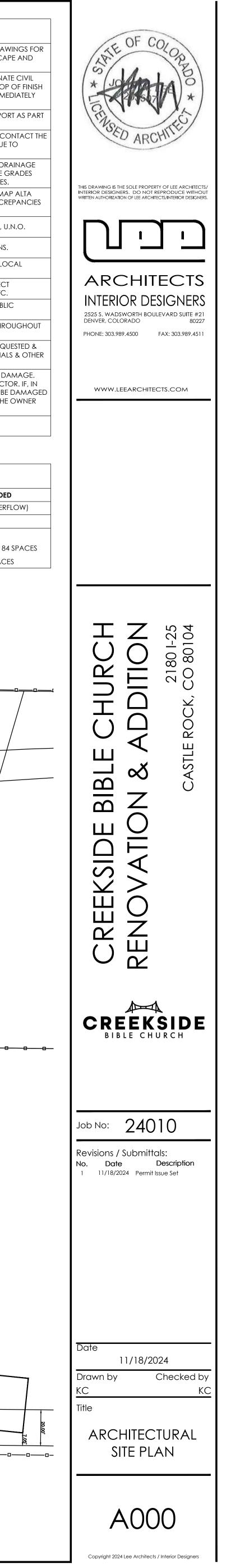
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	SITE PLAN NOTES
A	THIS ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. REFER TO THE CIVIL DRAWI ADDITIONAL SITE DIMENSIONS, GRADING / EROSION CONTROL, UTILITY, LANDSCAPE IRRIGATION DESIGN INFORMATION.
В	PRIOR TO PROCEEDING W/ ROUGH GRADING, THE CONTRACTOR TO COORDINATE GRADES W/ THE ARCHITECTURAL GRADES IN BUILDING DISCIPLINE. COMPARE TOP O GRADES AT PERIMETER OF BUILDINGS, FLAT WORK & ADJOINING SITE AREAS, IMMED REPORT ANY DISCREPANCIES TO THE ARCHITECT.
С	BUILDING PADS TO BE ROUGH GRADED AND RECOMPACTED PER THE SOILS REPORT OF THE SITE WORK.
D	ALL GRADING & CONCRETE PAVING SHALL SLOPE AWAY FROM THE BUILDING. CON ARCHITECT OR CIVIL ENGINEER FOR ANY AREAS THAT CANNOT SLOPE AWAY DUE TO EXISTING CONDITIONS.
E	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ADEQUATE DRA THROUGHOUT THE SITE DURING THE PROCESS OF EXCAVATION & GRADING. THE GR SHALL BE MAINTAINED IN SUCH CONDITION THAT IT IS WELL DRAINED AT ALL TIMES.
F	VERIFY ALL DIMENSIONS TO BOUNDARY & SETBACK INFORMATION W/ PARCEL MAP SURVEY OF RECORD & NOTIFY ARCHITECT /CIVIL ENGINEER IMMEDIATELY IF DISCREF ARE FOUND.
G	ALL SITE UTILITIES STUBBED TO 5'-0" MINIMUM FROM BUILDING LIMIT LINE, TYPICAL, U.N
Н	VERIFY LOCATIONS OF EXISTING UTILITIES BEFORE PROCEEDING W/ EXCAVATIONS.
I	ALL MATERIALS & WORKMANSHIP FOR PUBLIC FACILITIES TO CONFORM TO THE LOC JURISDICTION STANDARD CONSTRUCTION SPECIFICATIONS.
J	THE CONTRACTOR SHALL COMPLY W/ ALL ORDINANCES AFFECTING THE PROJECT INCLUDING BUT NOT LIMITED TO HOURS OF WORK, SAFETY, DUST MITIGATION, ETC.
К	THE CONTRACTOR SHALL COORDINATE W/ THE TOWN /SIP ON ALL WORK IN PUBLIC RIGHT-OF-WAY AREAS.
L	VEHICULAR ACCESS DRIVES MUST BE PROVIDED & MAINTAINED SERVICEABLE THROU CONSTRUCTION.
М	THE CONTRACTOR SHALL COORDINATE & IMPLEMENT ALL SAFETY MEASURES REQUE REQUIRED BY THE LOCAL FIRE MARSHAL, HEALTH DEPARTMENT, BUILDING OFFICIALS GOVERNING AGENCIES.
Ν	THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS TO REMAIN FROM DAM DAMAGED ITEMS SHALL BE REPLACED, REPARED OR RESTORED BY THE CONTRACTO THE OPINION OF THE CONTRACTOR, EXISTING IMPROVEMENTS TO REMAIN WILL BE D OR REQUIRE REMOVAL, THE GENERAL CONTRACTOR SHALL IDENTIFY THESE TO THE C PRIOR TO PRECEDING W/ REMOVAL.
0	LANDSCAPING BY OWNER.

	PARKING COUN	TS
ТҮРЕ	REQUIRED	PROVIDED
ONSITE	84	85 (+78 OVERFLO
ADA	4	4
PARKING CALCULATIONS:		
1 SPACE FOR EACH 3 FIXED SEATS IN MAIN ASSEMBLY:		250 SEATS/ 3 = 84 S
TOTAL PARKING:		163 SPACES

1'' = 30'-0''



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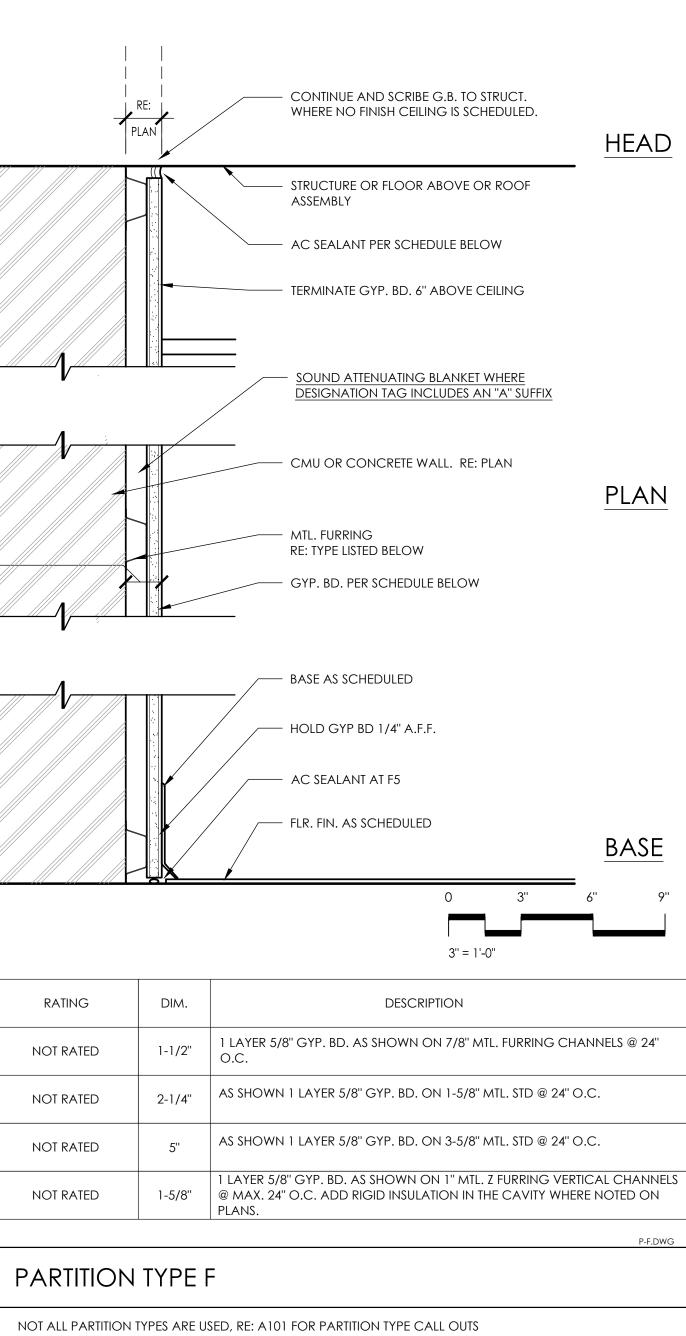
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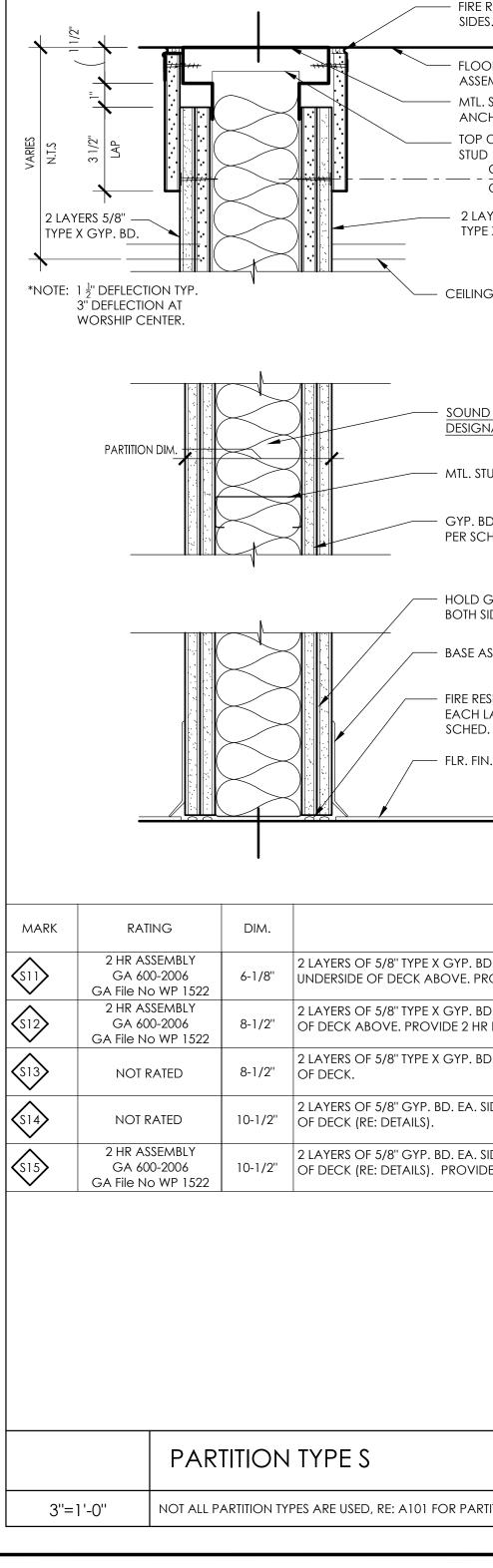
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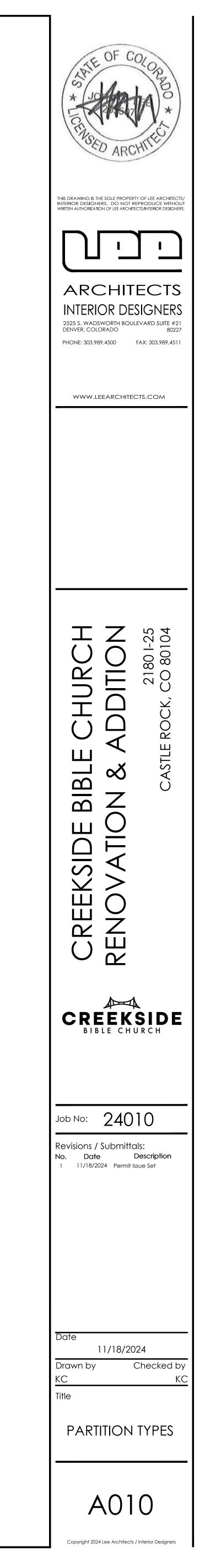
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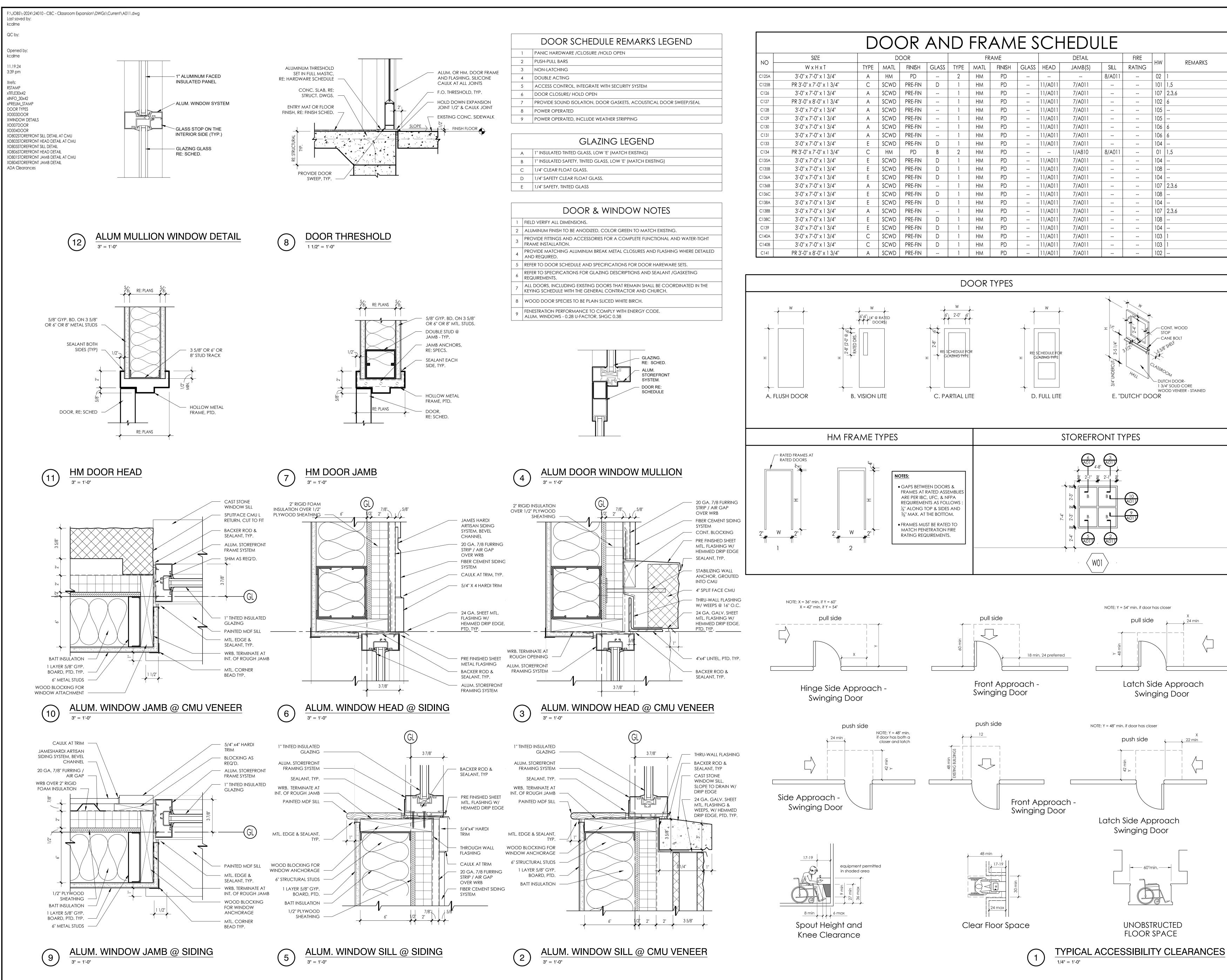


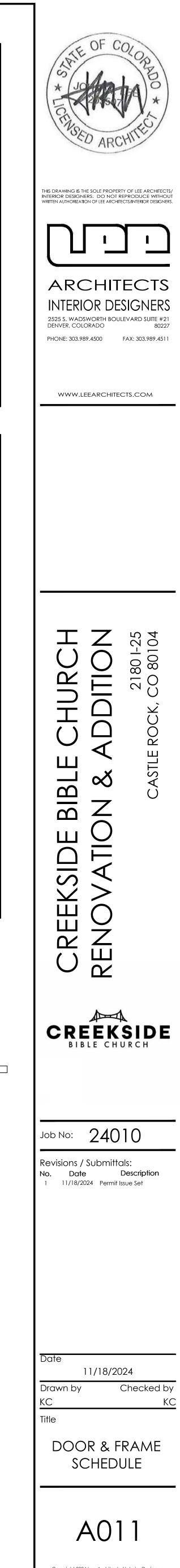


1.	METAL STUD GAUGES AT 24" O.C. AS FOLLOWS: 25 GA: 12'-9" MAX. HGT. 22 GA: 14'-0" MAX. HGT. 20 GA: 15'-0" MAX. HGT.	(NOTE: GAUGES ARE BASED ON 24" O.C., CHANGE SPACING TO 16" O.C. OR PROVIDE STRUCTURAL GAUGE STUDS AS REQ'D, WHERE INDICATED GAUGE AND HEIGHT LIMITS EXCEED MFR. RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.)
2.	CONSTRUCT RATED PARTITIONS IN ACCORDANCE	WITH REQUIREMENTS OF NOTED U.L. DESIGN.
3.	MAXIMUM HEIGHT OF METAL STUDS BASED ON A M	MAXIMUM DEFLECTION OF L/120.
4.	SET FLOOR TRACK ON CONTINUOUS BEADS OF AC	OUSTICAL SEALANT ON BOTH SIDES.
5.	FINISHED TO LEVEL 5 QUALITY AND PAINTED WHERE PRIOR TO COMMENCING WITH WORK. PROVIDE L	ACTURER'S RECOMMENDATIONS, SHALL BE TAPED, BEDDED, PRIMED, E NO OTHER WALL COVERING IS SPECIFIED. COORDINATE WITH ARCHITE EVEL 4 QUALITY FINISH @ STORAGE ROOM WALLS (NOT CEILINGS). RE TAPE AT FIRE RATED PARTITIONS. PROVIDE WATER RESISTANT GYPSUM
6.		ALL WALLS WHICH DEMISE WORSHIP CENTER, OFFICES, TOILETS, SSROOMS. PROVIDE MIN. 3 1/2" SOUND BATT INSULATION ABOVE CEILIN
7.	PROVIDE FRT WOOD BLOCKING IN PARTITIONS AS ON ITEMS /FIXTURES AND CASEWORK INSTALLED BY	REQ'D. BY CASEWORK AND MARKER BOARDS, ETC. COORD. WITH OWN (OWNER THAT MAY REQ. BLOCKING.
8.	ALL SURFACES MUST BE CLEANED AND DUST FREE F	PRIOR TO CAULKING.
9.	REFER TO SLIP JOINTS FOR PARTITION CONDITIONS	@ FLOOR AND STRUCTURE ABOVE.
10.	ALL PARTITIONS TERMINATE 6" ABOVE ADJACENT C	CEILING UNLESS NOTED OTHERWISE.
11.	ALL GYP. BD. 5/8" FIRE RATED UNLESS NOTED OTHE	RWISE.
12.	USE MOISTURE RESISTANT GYP. BD. OR CEMENTITIO FINISH PLANS OR AT HIGH MOISTURE AREAS.	US BACKER BD. IN LIEU OF STANDARD GYP. BD. WHERE CT IS SHOWN ON
13.	USE PLENUM RATED / 25 LOW FLAME SPREAD BATT	INSULATION IN WALLS AND CEILINGS, AT ALL EXPOSED AREAS.

	1/2"			I		 FIRE RESISTIVE JOINT SEALANT BOTH SIDES. PER SCHED. BELOW 	
	SI NOTE: 1		N AT			 FLOOR STRUCTURE OR ROOF ASSEMBLY ABOVE MTL. STUD DEFLECTION TRACK. DO NOT ANCHOR GYP. BD. TO TRACK TOP OF MTL STUD CL OF TOP ROW OF SCREWS 1 LAYER 5/8" TYPE X GYP. BD. CEILING WHERE SCHEDULED 	<u>HEAD</u> @ S3, S4, S7, S8 & S9
RE RESISTIVE JOINT SEALANT BOTH DES. PER SCHED. BELOW OOR STRUCTURE OR ROOF SSEMBLY ABOVE TL. STUD DEFLECTION TRACK. DO NOT NCHOR GYP. BD. TO TRACK		• • • • • • •				- KICKER BRACE @4'-0" O.C.	HEAD @ S1
DP OF MTL TUD TUD TUD TUD TOP ROW TOF SCREWS LAYERS 5/8" TYPE X GYP. BD. ING AS SCHEDULED						- SUSPENDED TEE GRID AS SCHED - CEILING AS SCHEDULED	HEAD @ S2
IND ATTENUATING BLANKET WHERE IGNATION TAG INCLUDES AN "A" SUFFIX . STUD SIZE PER SCHEDULE BELOW P. BD. LAYERS AND THICKNESS SCHEDULE BELOW		PARTITION				 200-B MTL TRIM MTL. STUD TRACK <u>SOUND ATTENUATING BLANKET WHERE</u> <u>DESIGNATION TAG INCLUDES AN "A" SUFFIX</u> MTL. STUD SIZE PER SCHEDULE BELOW GYP. BD. LAYERS AND THICKNESS PER SCHEDULE BELOW 	<u>PLAN</u>
D GYP BD 1/4" A.F.F. H SIDES E AS SCHEDULED RESISTIVE JOINT SEALANT AT CH LAYER GYP. BD. PER IED. BELOW						 HOLD GYP BD 1/4" A.F.F. BOTH SIDES BASE AS SCHEDULED FIRE RESISTIVE JOINT SEALANT AT EACH LAYER GYP. BD. PER SCHED. BELOW ELP. EINLAS SCHEDULED 	
FIN. AS SCHEDULED		_				- FLR. FIN. AS SCHEDULED 0 3"	= <u>BASE</u> 6" 9"
3" = 1'-0" DESCRIPTION	MARK	RATIN		DIM.		3" = 1'-0" DESCRIPTION	
. BD. EA. SIDE 3-5/8" 25 GA. MTL STUDS @ 24" O.C. TO				. = .01		D. EACH SIDE ON 3-5/8" 25 GA. MTL STUDS @ 24"	
BD. EA. SIDE 6" 25 GA. MTL STUDS @ 24" O.C. TO UNDERSIDE	$\langle S1 \rangle$				<u>ABOVE AND GYP BD TO</u> 1 LAYER OF 5/8'' GYP. B	Ported Wall Heights > 12'- 0". Studs to under <u>> 6" Above Highest Adj Ceiling.</u> D. Each side on 3-5/8" 25 ga. MTL Studs @ 24"	O.C. TO UNDER-
HR LISTED FIRE RESISTIVE JOINT SEALANT . BD. EA. SIDE 6" 25 GA. MTL STUDS @ 24" O.C. TO UNDERSIDE	< <u>52</u> \$3	NOT RA 1 HR ASS GA 600	EMBLY		1 LAYER OF TYPE X 5/8"	20 GA. MTL STUDS FOR UNSUPPORTED WALL HEIG GYP. BD. EACH SIDE ON 3-5/8", 25 GA. MTL STUD BOVE. USE 20 GA. MTL STUDS FOR UNSUPPORTE	os @ 24" O.C. TO
A. SIDE 8" 18 GA. MTL STUDS @ 16" O.C. TO UNDERSIDE	S4	GA File No NOT RA		4-7/8"	1 <u>2'- 0". PROVIDE 1 HR LI</u> 1 LAYER OF 5/8" GYP. B UNDERSIDE OF TRUSS A	<u>STED FIRE RESISTIVE JOINT SEALANT</u> D. EACH SIDE ON 3-5/8" 25 GA. MTL STUDS @ 24" BOVE. USE 20 GA. MTL STUDS FOR UNSUPPORTEI	0.C. TO
A. SIDE 8" 18 GA. MTL STUDS @ 16" O.C. TO UNDERSIDE VIDE 2 HR LISTED FIRE RESISTIVE JOINT SEALANT	\$5	NOT RA	ATED		12'- 0". 1 LAYER OF 5/8" GYP. B HEIGHT (RE: PLANS ANE	D. EACH SIDE ON 3-5/8" 25 GA. MTL STUDS @ 24 D DETAILS)	" O.C. PARTIAL
	\$	NOT RA	ATED	7-1/4"		D. EACH SIDE ON 6" 25 GA. MTL STUDS @ 24" O.C TED WALL HEIGHTS > 12'- 0". STUDS AND GYP BD	
	\$7	1 HR ASS GA 600 GA File No	-2021		1 LAYER OF TYPE X 5/8"	GYP. BD. EACH SIDE ON 6", 25 GA. MTL STUDS @ BOVE. PROVIDE 1 HR LISTED FIRE RESISTIVE JOINT	
	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	NOT RA			1 LAYER OF 5/8" GYP. B TO UNDERSIDE OF TRUS	D. EACH SIDE ON 6'' 25 GA. MTL STUDS @ 24'' O.C SS ABOVE.	2.
	\$9	NOT RA (EXCEPT V NOTE	VHERE		1 LAYER OF 5/8" GYP. B OF DECK (RE: DETAILS).	D. EA. SIDE 8'' 20 GA. MTL STUDS @ 16'' O.C. TO U	INDERSIDE
A010.dwg	\$10	NOT RA (EXCEPT V NOTE	VHERE			D. EA. SIDE 8'' 20 GA. MTL STUDS @ 16'' O.C. TO U USE IMPACT RESISTANT GYP. BD. ON GYMNASI	
			PAR	TITION	TYPE S		
ARTITION TYPE CALL OUTS	3''=1	'-0''	NOT ALL	PARTITION TY	PES ARE USED, RE: A10	1 FOR PARTITION TYPE CALL OUTS	







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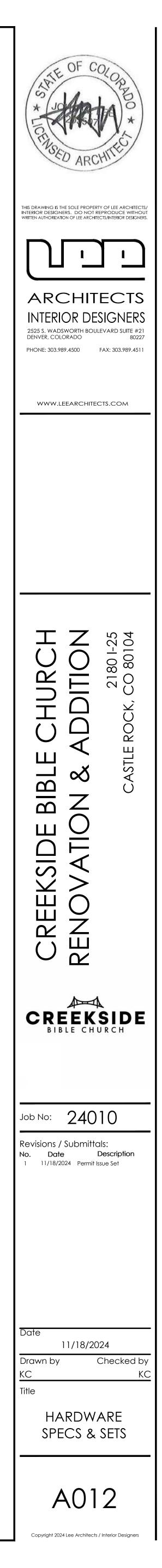
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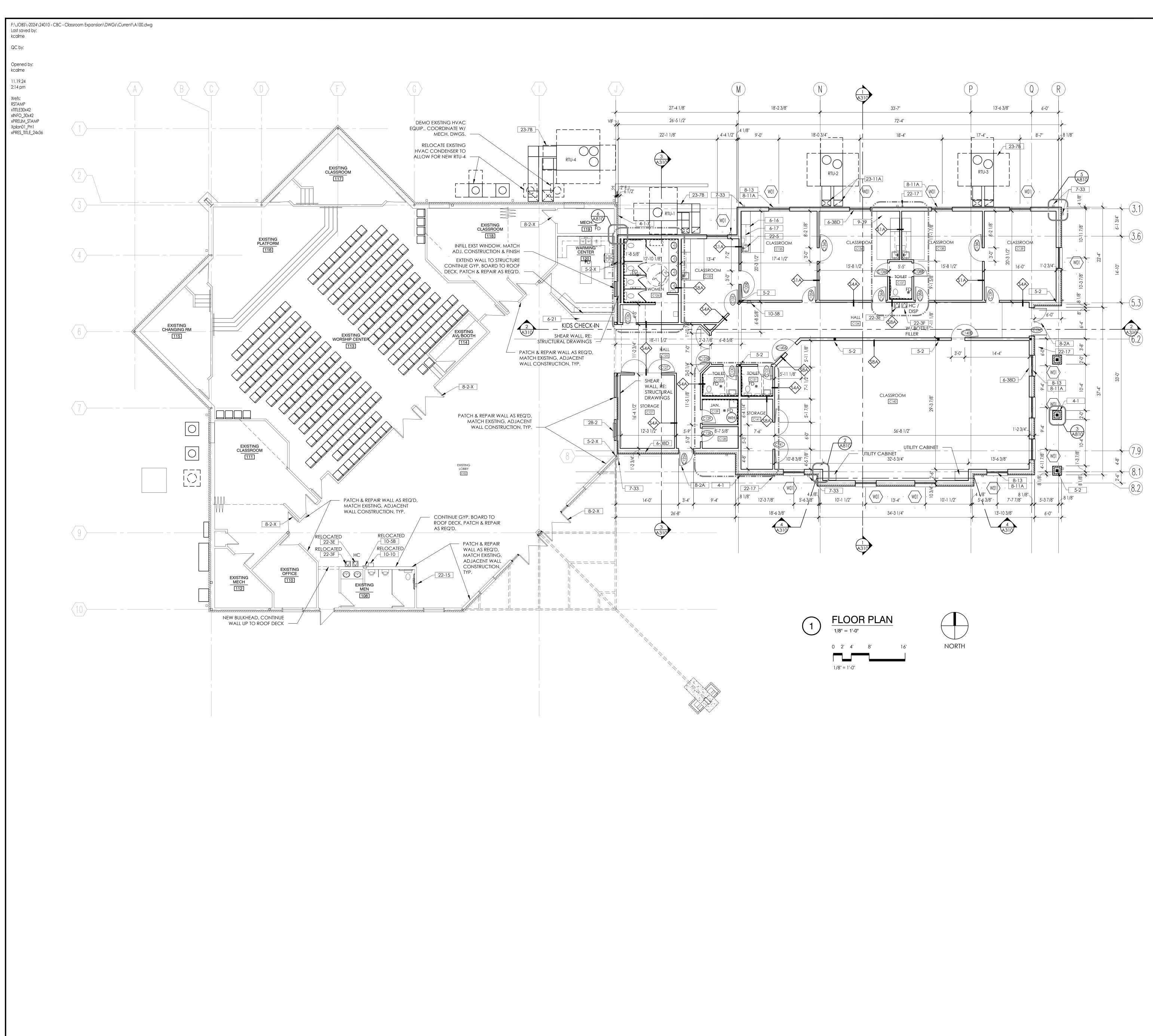
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BB-H-EAVY-KP Bowles 4 Stats - Konse PF 27.3 Explose 300 (source) DAK Construction Agent (sign) Construction Agent (sign) Construction Agent (sign) Mill R Exercision Construction Agent (sign) Code Discription Stat Discription	ST E TR T Option List	EST Hinges and Sliding rimco	2HarnessWH-192P2HarnessWH-12P2HarnessWH-6E1GasketingBY ALUM. FRAI2Length Pile Astragal336 P2Door Sweep200 SA
Finish Liat Image flag Conce Description Conce Satin Chromism Pland G30 Satin Stain Sele G30 A mitum A. A. A. Annum Here Sele Linch A mitum Bit A. Chromism Pland Satin Stain Sele Linch A mitum Bit A. Chromism Pland Satin Stain Sele Linch A mitum Bit A. Chromism Pland Satin Stain Sele UB322C Satin News Steel Duil D00030707 06 710 - 14 Coole Sele Satin Hage Doct Table Sele Satin Hage Coole Sele Satin Hage Coole Sele Satin Hage Coole Sele Satin Hage Coole Sele Satin Hage Satin Hage Satin Hage Coole Sele Satin Hage Coole Sele Satin Hage Coole Sele Satin Hage Satin Hage Satin Hage Satin Hage Satin Hage Satin Hage Satin Hage Satin Hage Satin Hage <	B4E-HEAVY-KP BF CE-12EA CK CMK CSK JAMB/BRKT/FILLER MLR	Beveled 4 Edges - Kick Plates BF (Best SFIC) Keyway Easy Access Panel Construction Keyed (Sgl) Construction Master Keyed (Sgl) Counter Sinking Of Kick And Mop Plates Jamb Brkt Filler/Shim Electrified Latch Retraction	PRESENTING VALID CREDENTIAL RETRACTS EMERGENCY KEY OVERRIDE. X SWITCH IN PUSHBAR TO SHUNT ALARM. EXIT DEVICE IS FAIL SECURE.
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2 Power Transfor EPT-12C 1 Card Reador BY SECURITY 2 Doc Postion Suite BY SECURITY 2 Doc Postion Suite BY SECURITY 2 Doc Postion Suite WH-192P C00039737 08 7100 - 14 06/26/2024 C00039737 Convestion Suite Bible Clurch Classcoort Expansion DOOR 1480/WARE Desuge Development Cerefiside Bible Clurch Classcoort Expansion E 2 Door Sci 130, C131 Buit Hinge FBB179 4.5' x.4 1 Diversion Suite Bible Clurch Classcoort Expansion E 2 Doors: C130, C131 Buit Hinge FBB179 4.5' x.4 1 Privacy Sci 58:4.3.0.150 3 Buit Hinge FBB179 4.5' x.4 1 Gas sciing 5000 B Head & 3 Buit Hinge FBB179 4.5' x.4 1 Gas sciing 500 B Head & 3 Buit Hinge FBB179 4.5' x.4 1 Puis Bible 101-3 1 Gas sciing 300 S0 F Head & 3 Buit Hinge FB8179 4.5' x.4 1	US32D	Stainless Steel, Dull	Doors: C125B6Butt HingeFBB179 4.5" x 41Exit DeviceQED124 MLR X1Exit DeviceQED125 BF CK2Exit TrimQET170 E BF C3Final Core1C-72CloserITS 96132Kick PlateK0050 10" x 2" I
Set #106 Doors: C130, C131 3 But Hinge FBB179.4.5" x4 1 Privacy Set 9K3-0L15D 1 Closer ITS 9613.HO 1 Closer ITS 9613.HO 1 Closer ITS 9613.HO 1 Closer ITS 9613.HO 1 Kick Plate K0050.10" x 2". 1 Gasceting 5050.B Head & 2 But Hinge FB179.4.5" x4 1 Gasceting 5050.B Head & 3 But Hinge FB179.4.5" x4 1 Pull Plate 1014.3.8 1 Pull Plate 1016.3.3 1 Pull Plate 1016.3.3 1 Pull Plate KM050.6" x1"L 1 More Plate KM050.6" x1"L 1 Kick Plate K0050.10" x2" 1 Gasceting 550.50 Head & Doors: C1356, C138C Editor project into the battom door 1 Lockset 9K3.7/G15D.51 1 Dockset.015.0.736C,			2Power TransferEPT-12C1Power Supply (QED)&Q003121Card ReaderBY SECURITY (2Door Position SwitchBY SECURITY (2HarnessWH-192P000039797
			1 Privacy Set 9K3-0L15D 1 Closer ITS 9613 HO 1 Kick Plate K0050 10" x 2" I 1 Wall Bumper 1270CV 1 Gasketing 5050 B Head & Set #107 Doors: C126, C136B, C138B 3 Butt Hinge FBB179 4.5" x 4 1 Push Plate 1001-3 1 Push Plate 1018-3B 1 Closer ITS 9613 HO 1 Kick Plate K0050 10" x 2" I 1 Pull Plate 1018-3B 1 Closer ITS 9613 HO 1 Kick Plate K0050 10" x 2" I 1 Mop Plate KM050 6" x 1" L 1 Mop Plate KM050 6" x 1" L 1 Wall Bumper 1270CV 1 Gasketing 5050 B Head & Set #108 Doors: C135B, C136C, C138C 4 Butt Hinge FBB179 4.5" x 4 1 Deadbolt &T3-7M STD NOTE: Bolt to project into the bottom door 1 1 Lockset 9K3-7G15D STI

Half of the control of the c	HD UL 84" CE-12EA D124 MLR X D125 BF CK X T170 E EF CK 7 S Series 0 Series JAMB/BRKT/FILLER	AL 626 626 626 626 689 US32D	ST SH SH BE DM AB		Y CLOSED AND LOCKED. EDENTIAL RETRACTS LATCH FOR INGR ESS. RRIDE. TO SHUNT ALARM. CURE.		ST ST NA NA
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DOR NARDWARE Design Development Creekidale Bits: Church Classoorn Expansion DOR NARDWARE Design Development 79 4.57 x 4.5" 25D ST Opening List <t< td=""><td>24 MLR X 25 BF CK X 70 E BF CK 613 0 10" x 2" LDW B4E CSK CV 12C 312 ECURITY CONTRACTOR ECURITY CONTRACTOR</td><td>626 626 626 626 689 630 626</td><td>SH SH BE DM TR TR TR PR SH BY BY</td><td>2 Wall Bumper 1 Gasketing Set #105 Doors: C128, C129 3 Butt Hinge 1 Lockset 1 Closer 1 Kick Plate 1 Wall Bumper</td><td>1270CV 5050 B Head & Jambs FBB179 4.5" x 4.5" 9K3-7D15D STD ITS 9613 K0050 10" x 2" LDW B4E CSK 1270CV</td><td>626 26D 626 689 630</td><td>TR NA ST BE DM TR TR</td></t<>	24 MLR X 25 BF CK X 70 E BF CK 613 0 10" x 2" LDW B4E CSK CV 12C 312 ECURITY CONTRACTOR ECURITY CONTRACTOR	626 626 626 626 689 630 626	SH SH BE DM TR TR TR PR SH BY BY	2 Wall Bumper 1 Gasketing Set #105 Doors: C128, C129 3 Butt Hinge 1 Lockset 1 Closer 1 Kick Plate 1 Wall Bumper	1270CV 5050 B Head & Jambs FBB179 4.5" x 4.5" 9K3-7D15D STD ITS 9613 K0050 10" x 2" LDW B4E CSK 1270CV	626 26D 626 689 630	TR NA ST BE DM TR TR
79 4 5' x 4.5" 260 ST Opening Hdw Set 01.15D 626 BE C126 107 613 HO 699 DM C127 102 0 10" x 2" LDW B4E CSK 630 TR C128 105 CV 626 TR C129 105 B Head & Jambs - NA C130 106 C134 01 C134 01 C134 01 79 4.5' x 4.5" 26D ST C141 102 C134 01 79 4.5' x 4.5" 26D ST C139 104 C130 104 -3 630 TR C125A 02 C135A 104 -3 630 TR C135A 104 C136A 104 0 10" x 2" LDW B4E CSK 630 TR C135A 104 C136A 104 CV 626 TR C135A 104 C136A 104 C136A 104 C10" x 2" LDW B4E CSK 630 TR C136A 104 C136A 104							Design Development
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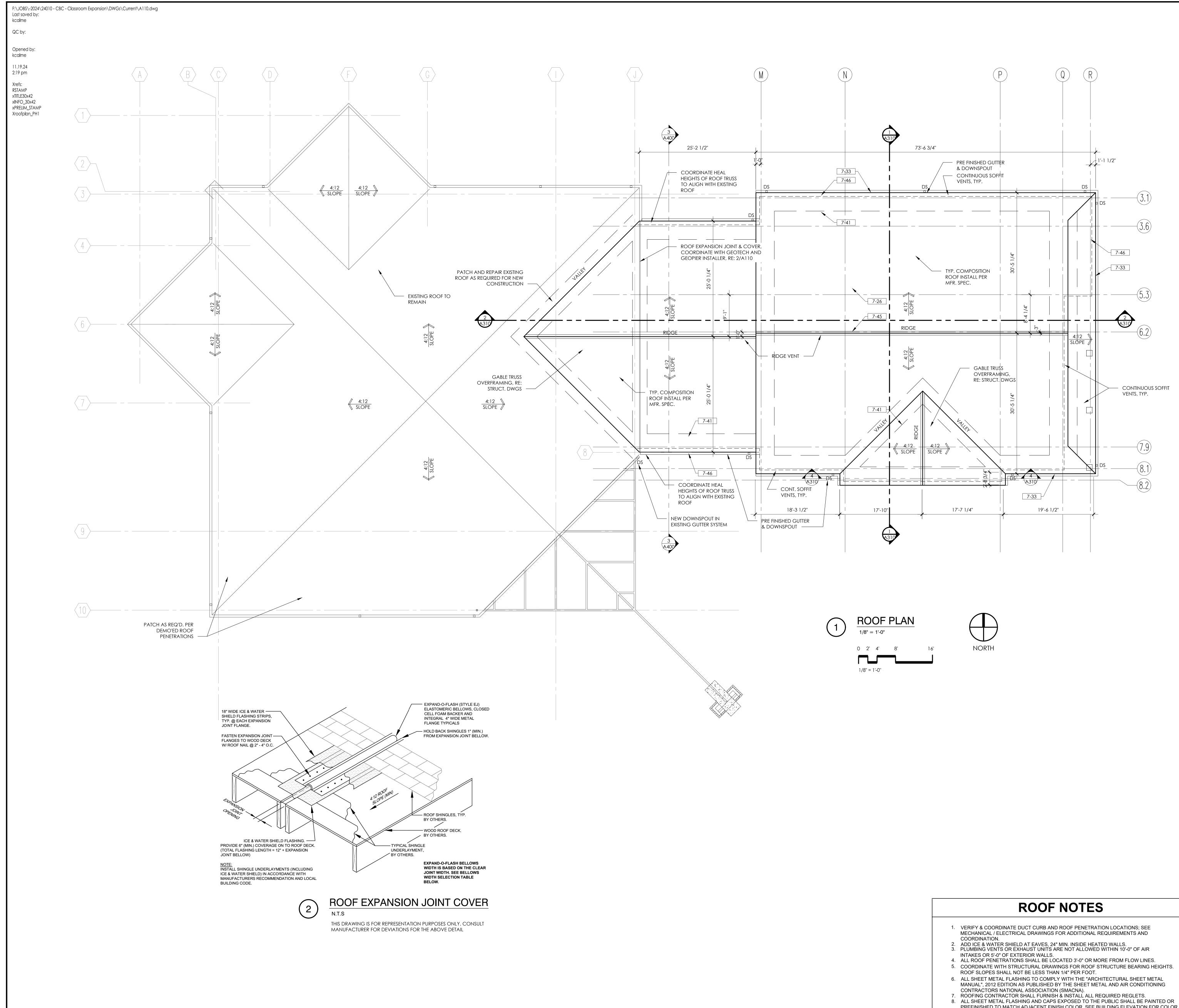


DRAWING NOTES

1-2	REFER TO LANDSCAPE DRAWINGS FOR LANDS
1-5	LAYOUT AND NOTES. CONSULT GOVERNING AUTHORITIES FOR SPECI
	REQUIREMENTS REGARDING GOVERNING COE RULES REGULATIONS AND STANDARDS.
1-7	REFER TO CIVIL DRAWINGS FOR GRADING AND EROSION CONTROL.
1-11	DIMENSIONS ARE NOMINAL AND ARE TO GRID
	OR FACE OF GYP BD, MASONRY OR CONCRET UNO. AT EXTERIOR WALL STUDS, DIMENSIONS A
	TO FACE OF STUD. RE: PARTITION TYPES FOR AC
1-12	WALL THICKNESSES. REFER TO DRAWING A010 FOR PARTITION TYPES
1-14	NOTES REFER TO DRAWING A800 FOR PENETRATION
	DETAILS THRU FIRE RATED PARTITIONS.
1-15 1-16	ALL GYP BD TO BE TYPE X U.O.N. ALL DOOR R.O. TO BE 4" FROM PERPENDICULA
1 17	WALL U.O.N.
1-17	PROVIDE MIN. R-13 SOUND BATT INSULATION IN WALLS AROUND FULL HEIGHT OFFICE WALLS,
	TOILETS, CONFERENCE ROOMS, AND MECHAN OR ELECTRICAL ROOMS
1-18	PROVIDE SEALANT AT ALL DISSIMILAR MATERIAL
1-19	ALL GYPSUM BOARD TO BE INSTALLED PER MFR RECOMMENDATIONS. SHALL BE TAPED, BEDDE
	FINISHED TO LEVEL 5 STANDARD, AND PAINTED
	PROVIDE FIRE TAPE AT FIRE RATED PARTITONS. PROVIDE WATER RESISTANT GYPSUM BOARD AT
1-20	WALLS. REFER TO DRAWING A011 FOR DOOR SCHEDU
	and door types.
1-21	REFER TO DRAWING A900 FOR ROOM FINISH PL AND FINISH SCHEDULE.
1-22	ELECTRICAL BOXES SHALL NOT BE MOUNTED BATO BACK. BOXES SHALL BE SEALED TO GYP. BD
	WITH RESILIENT CAULK.
1-24	METAL STUD GAUGES AT 24" O.C. AS FOLLOWS: 25 GA: 12'-9" MAX. HGT.
	22 GA: 14'-0" MAX. HGT. 20 GA: 15'-0" MAX. HGT.
	(NOTE: GAUGES ARE BASED ON 24" O.C CHA
	SPACING TO 16" O.C. OR PROVIDE STRUCTURA GUAGE STUDS AS REQ'D. WHERE INDICATED G
	AND HEIGHT LIMITS EXCEED MFR.
	RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.)
1-25	MAXIMUM HEIGHT OF METAL STUDS BASED ON A MAXIMUM DEFLECTION OF L/120.
1-27	SET FLOOR TRACK ON CONTINUOUS BEADS OF ACOUSTICAL SEALANT ON BOTH SIDES.
1-28	PROVIDE MIN. R-13 PLENUM RATED SOUND BAT
	INSULATION ABOVE CEILING OR ABOVE ALL "SC ISOLATED" (SEE NOTE 1-17) ROOMS FOR A DISTA
	OF 6' EA. SIDE OF WALL - UNLESS ALL PERIMETER DEMISING WALLS ARE CONTINUOUS TO STRUCT
	ABOVE.
1-29	PROVIDE FIRE RETARDANT W.D. BLOCKING IN PARTITIONS AS REQ'D BY CASEWORK AND MAR
	BOARDS, ETC COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED BY
	OWNER THAT MAY REQ. BLOCKING.
1-30	ALL SURFACES MUST BE CLEANED AND DUST FRI PRIOR TO CAULKING AND/OR PAINTING.
1-31	REFER TO SLIP JOINTS DETAILS FOR PARTITION DEFLECTION CONDITIONS @ FLOOR AND
	STRUCTURE ABOVE.
2-27 4-1	EXISTING ROOF HATCH AND LADDER TO REMA CONCRETE MASONRY UNITS - RE: WALL TYPES A
	WALL SECTIONS FOR SIZE U.O.N. & ELEVATIONS
4-1-X	FACE TEXTURE AND COLOR. CONCRETE MASONRY UNITS (EXISTING)
5-2	
5-2-X 6-16	STEEL COLUMN (EXISTING) PLAM BASE CABINET
6-17	PLAM WALL CABINET
6-21	PLAM COUNTER TOP WITH SPLASH
6-38D	PAINTED MDF SILL
7-33	24 GA. PREFINISHED MTL. GUTTER
8-2A	EXTERIOR HOLLOW METAL DOOR AND FRAME
8-2-X 8-11A	EXISTING DOOR TO REMAIN ALUM, STOREFRONT WINDOW
8-13	1" TINTED INSULATING GLASS
9-39	VINYL COMPOSITION TILE
10-5B	SEMI RECESSED FIRE EXTINGUISHER & CABINET
10-10	
22-3E 22-3F	SURFACE MOUNTED DRINKING FOUNTAIN SURFACE MOUNTED EWC ADA COMPLIANT
22-3F 22-5	SINK
22-15	WATER HOOK UP FOR OWNER PROVIDED COP
22-17	MAKER FREEZELESS WALL HYDRANT
22-17 23-7B	GROUND MOUNTED HVAC UNIT
23-11A	INSULATED METAL MECH. DUCT
27-3 28-2	PLYWD PATCH PANEL BOARD FIRE ALARM ANNUNCIATOR PANEL
20-2	

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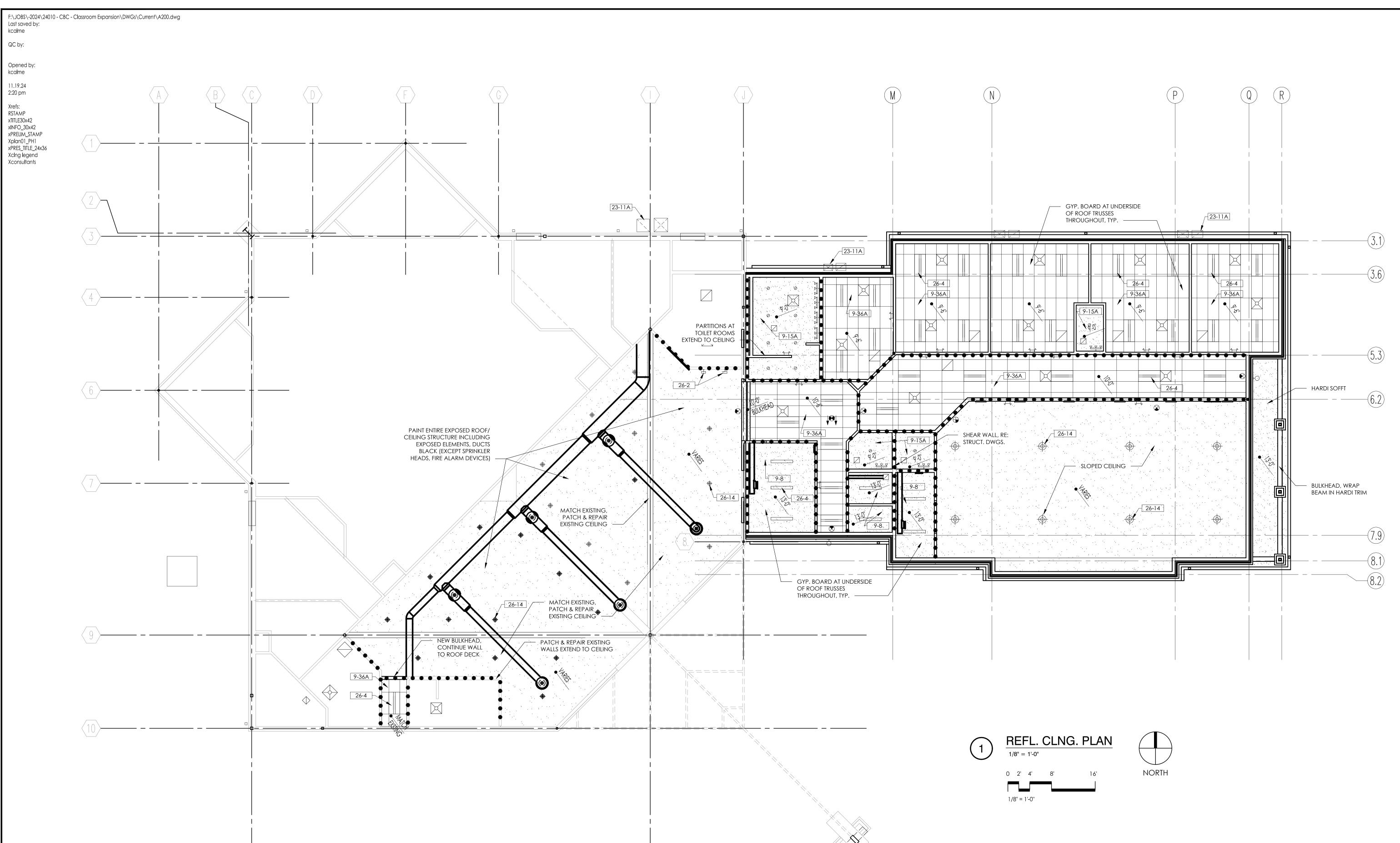


DRAWING NOTES

- PREFINISHED TO MATCH ADJACENT FINISH COLOR. SEE BUILDING ELEVATION FOR COLOR SPECIFICATIONS. ALL OTHER FLASHING TO BE GALVANIZED.
- 9. NO ROOFING PENETRATIONS TO OCCUR WITHIN 1'-6" OF VALLEYS, HIPS, OR RIDGES.. 10. ROOF MATERIAL TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

	1-11	DIMENSIONS ARE NOMINAL AND ARE TO OR FACE OF GYP BD, MASONRY OR CO UNO. AT EXTERIOR WALL STUDS, DIMENS TO FACE OF STUD. RE: PARTITION TYPES F WALL THICKNESSES.
	1-81	COORDINATE ALL LOCATIONS OF MECH ROOFTOP EQUIPMENT & OPENINGS W/ MECHANICAL & STRUCTURAL DWGS. PRI INSTALLATION.
	1-82	ALL FLASHING DETAILS SHALL BE PAINTED COMPLY WITH THE "ARCHITECTURAL SHE MANUAL", 7TH EDITION, AS PUBLISHED BY METAL & AIR CONDITIONING CONTRACT NATIONAL ASSOCIATION (SMACNA).
	1-83	ALL ROOFING MATERIALS TO MEET FLAME AND FIRE RATING REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
	7-26	COMPOSITION ROOF SHINGLE SYSTEM
	7-33	24 GA. PREFINISHED MTL. GUTTER
	7-41	4'-0" WIDE ICE AND WATER SHIELD AT FU PERIMETER & VALLEYS OF SHINGLE ROOF
	7-45	ROOF VENT
	7-46	SOFFIT VENT





CEIL	ING LEGEN	1D	
	WALL MOUNTED FIXTURE	\$	PENDANT FIXTURE
0	RECESS MOUNTED DOWNLIGHT	⊢⊶⊣	STRIP FIXTURE

RECESS MOUNTED 2' X 4'

RECESS MOUNTED 2' X 2'

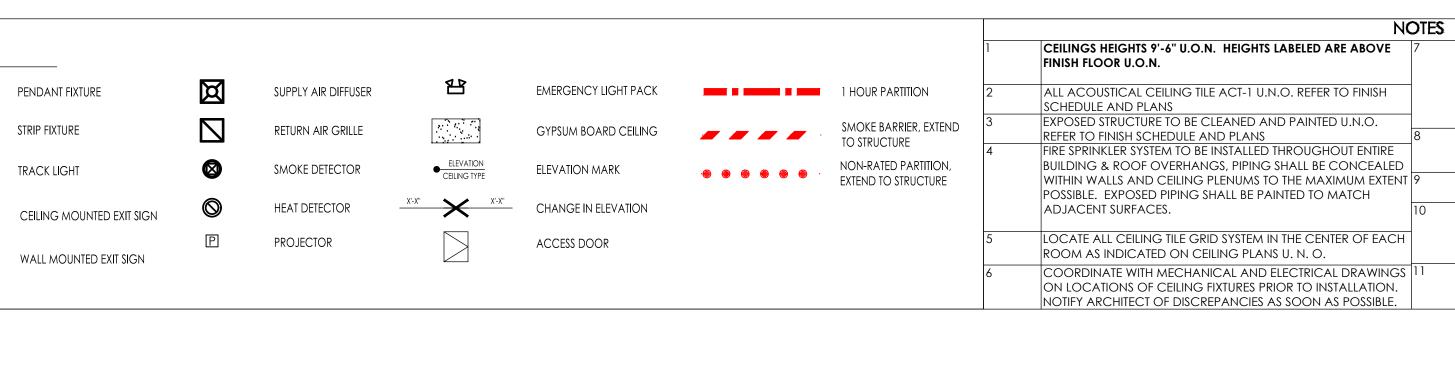
RECESS MOUNTED 1' X 4'

TRACK LIGHT

WALL MOUNTED EXIT SIGN

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NOTE: ALL CONTRACTORS SHALL BE CAUTIONED THAT THERE ARE EXTENSIVE AUDIO VISUAL SYSTEMS AND THEATRICAL LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT. CARE MUST BE TAKEN TO MINIMIZE ANY INTERACTION BETWEEN THE AV SYSTEMS AND M & E SYSTEMS THROUGH CONDUIT OR BY OTHER MEANS

NOTE: DUCTS AND DIFFUSERS MUST BE MOUNTED HIGHER THAN LIGHT FIXTURES RE: AV AND STRUCTURAL DRAWINGS FOR EQUIPMENT LOCATIONS, HANGING REQUIREMENTS AND ACOUSTIC TREATMENT REQUIREMENTS

DRAWING NOTES

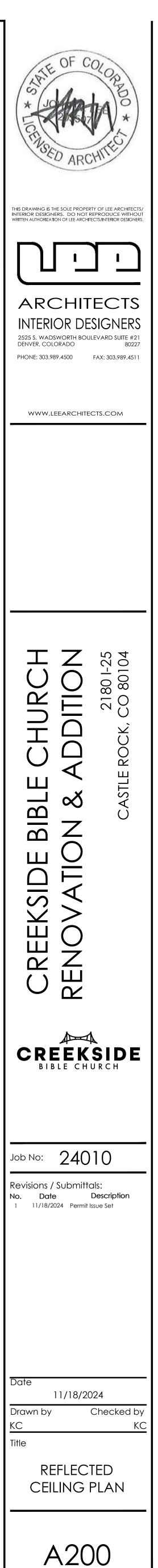
1-11	DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP BD, MASONRY OR CONCRETE UNO. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES.
1-17	PROVIDE MIN. R-13 SOUND BATT INSULATION IN ALL WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHANICAL OR ELECTRICAL ROOMS
1-28	PROVIDE MIN. R-13 PLENUM RATED SOUND BATT INSULATION ABOVE CEILING OR ABOVE ALL "SOUND ISOLATED" (SEE NOTE 1-17) ROOMS FOR A DISTANCE OF 6' EA. SIDE OF WALL - UNLESS ALL PERIMETER DEMISING WALLS ARE CONTINUOUS TO STRUCTURE ABOVE.
1-40	CEILING NOTES:
1-41	CEILINGS @ 9'-6" ABOVE FINISH FLOOR U.O.N. TYPICAL.
1-42	PROVIDE AND INSTALL ACCESS PANELS AT OR NEAR SUPPLY AIR DIFFUSERS LOCATED IN GYP BD CEILING AS REQ'D FOR BALANCING. COORDINATE WITH HVAC.
1-43	LOCATE ALL CEILING TILE GRID SYSTEM IN THE CENTER OF EACH ROOM AS INDICATED ON CEILING PLANS UNLESS NOTED OTHERWISE.
1-44	COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS ON LOCATIONS OF CEILING FIXTURES PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.
1-45	ALL GYPSUM BOARD CEILINGS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, PRIMED TEXTURED WITH LEVEL 4 FINISH AND PAINTED. PROVIDE FIRE RATED TAPE AT FIRE RATED CEILINGS, PROVIDE WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS, KITCHEN AND LOCKER ROOMS.
1-46	ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR U.O.N.
9-8	1 LAYER 5/8" GYP. BD.
9-15A	SUSPENDED GYP. BD. CEILING SYSTEM
9-36A	SUSPENDED 2X4 A.C.T SYSTEM
23-11A	INSULATED METAL MECH. DUCT
26-2	WALL MOUNTED DEVICE RE: ELEC.
26-4	LIGHT FIXTURE, TYP. REFER TO ELECTRICAL SCHEDULE.
26-14	PENDANT LIGHT, RE: ELEC LIGHT SCHEDULE

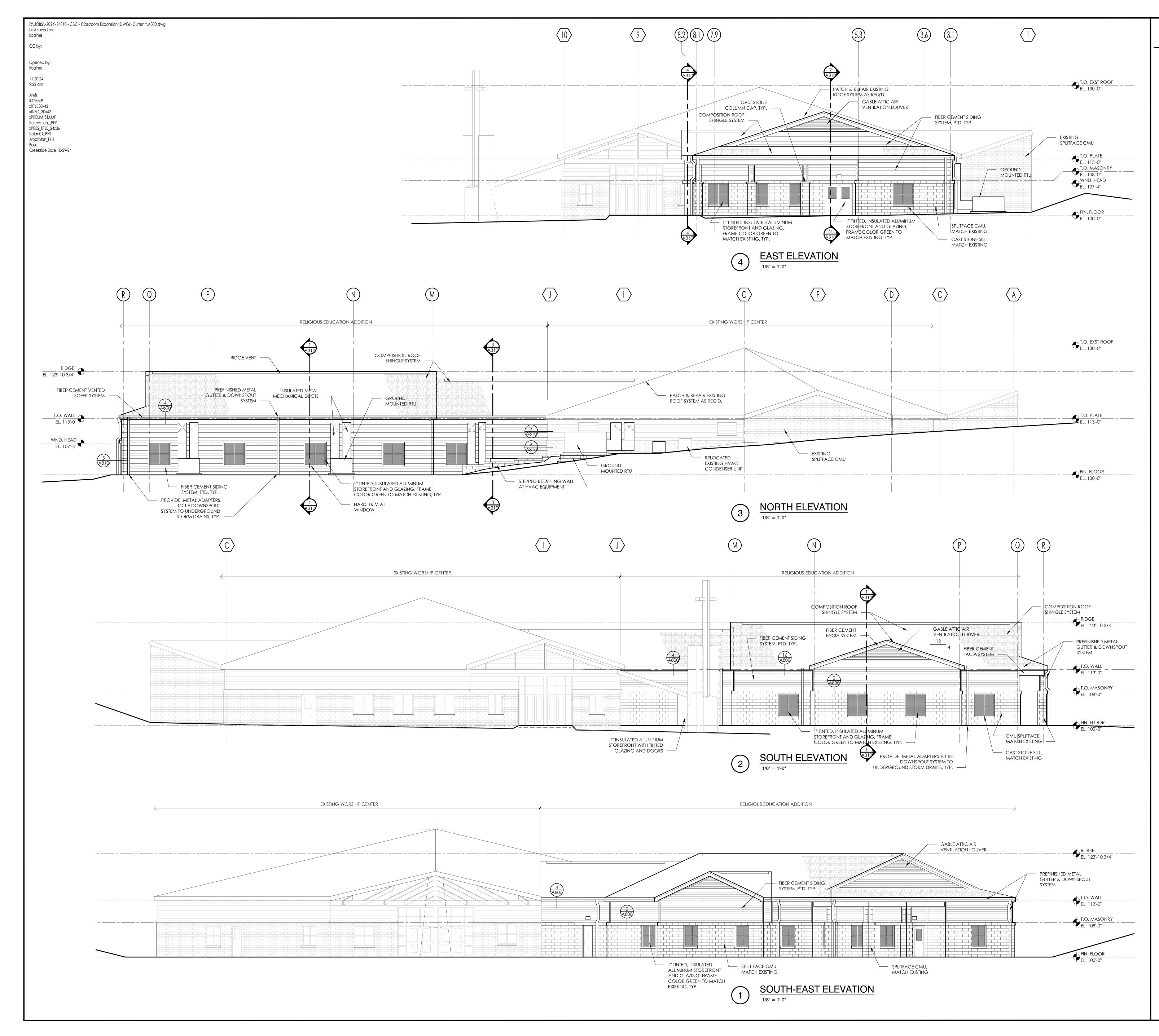
ALL GYPSUM BOARD CEILINGS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, LEVEL 4 FINISH AND PAINTED. PROVIDE FIRE RATED TAPE AT FIRE RATED CEILINGS, PROVIDE WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS, WARMING CENTER AND BAPTISTERY FILL STATION. ALL ELECTRICAL OR MECHANICAL FIXTURES LOCATED IN ONE HOUR CEILING ASSEMBLIES REQUIRE A ONE HOUR RATING. COORDINATE WITH M.E.P. DRAWINGS. PROVIDE VENTILATION FOR ENCLOSED EXTERIOR BULKHEADS AND SOFFITS IN ACCORDANCE WITH 2018 IBC, SECTION 1202.2.1 ALL ROOMS WITH AIR RETURN CEILING GRILLES SHALL INCORPORATE 90 DEGREE FIBERGLASS INSULATED ELBOWS ABOVE CEILING TO MINIMIZE ROOM-TO-ROOM SOUND TRANSMISSION DUE TO PLENUM AIR SPACE. PROVIDE BLACK DIFFUSERS AND RETURN AIR GRILLES AT LOCATIONS WHERE CEILING/ EXPOSED STRUCTURE IS BLACK.



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DRAWING NOTES

1-2 REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE LAYOUT AND NOTES. 1-4 REFER TO CIVIL FOR SITE SURVEY INFORMATION. 1-7 REFER TO CIVIL DRAWINGS FOR GRADING AND EROSION CONTROL. Coordinate with civil drawings on all site 1-9 INFORMATION. DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP BD, MASONRY OR CONCRETE UNO. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES. 1-20 REFER TO DRAWING A011 FOR DOOR SCHEDULE AND DOOR TYPES. ALUMINUM WINDOW FRAMING SYSTEM BASED ON 1-61 KAWNEER TRIFAB II 451 SYSTEM. 1-63 PROVIDE FITTINGS AND ACCESSORIES FOR A COMPLETE FUNCTIONAL & WATER-TIGHT FRAME INSTALLATION. 1-64 PROVIDE MATCHING ALUMINUM BREAK METAL CLOSURES AND FLASHING WHERE DETAILED AND REQUIRED. REFER TO SPECIFICATIONS FOR GLAZING 1-66 DESCRIPTIONS & SEALANT/ GASKETING

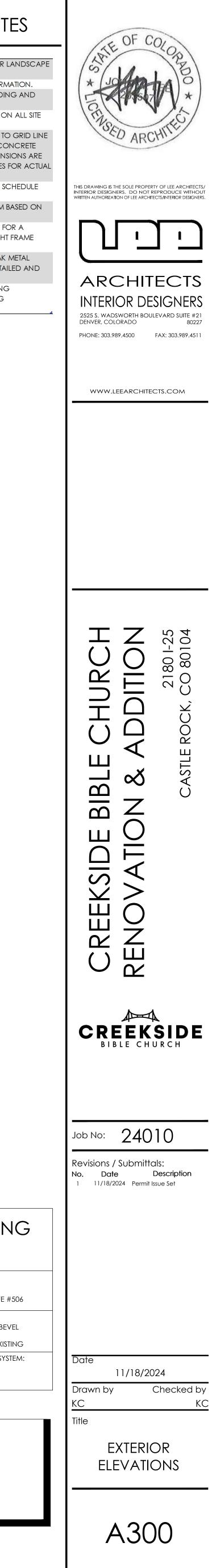
REQUIREMENTS.

EXTE	ERIOR BUILDIN FINISHES
	SPLIT FACE CMU:

	SPLIT FACE CMU: MATCH EXISTING ANCHOR BLOCK CO SANTA FE #506
	HORIZONTAL SIDING: JAMES HARDI ATRISAN SIDING, BEVEL CHANNEL, 7" EXPOSURE, PAINTED - COLOR TO MATCH EXISTING
$\begin{array}{c} \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}$	COMPOSITION ROOF SHINGLE SYSTEM: MATCH EXISTING OWENS CORNING, DURATION, CHATEAU GREEN

FINISH NOTES:

- CAST STONE SILL:
 COLOR TO MATCH EXISTING
- HM DOORS, FRAMES AND FLASHING: PAINTED TO MATCH EXISTING
- METAL GUTTER & DOWNSPOUT SYSTEM: PAINTED TO MATCH EXISTING
- HARDI FACIA & TRIM:
 PAINTED COLOR TO MATCH EXISTING



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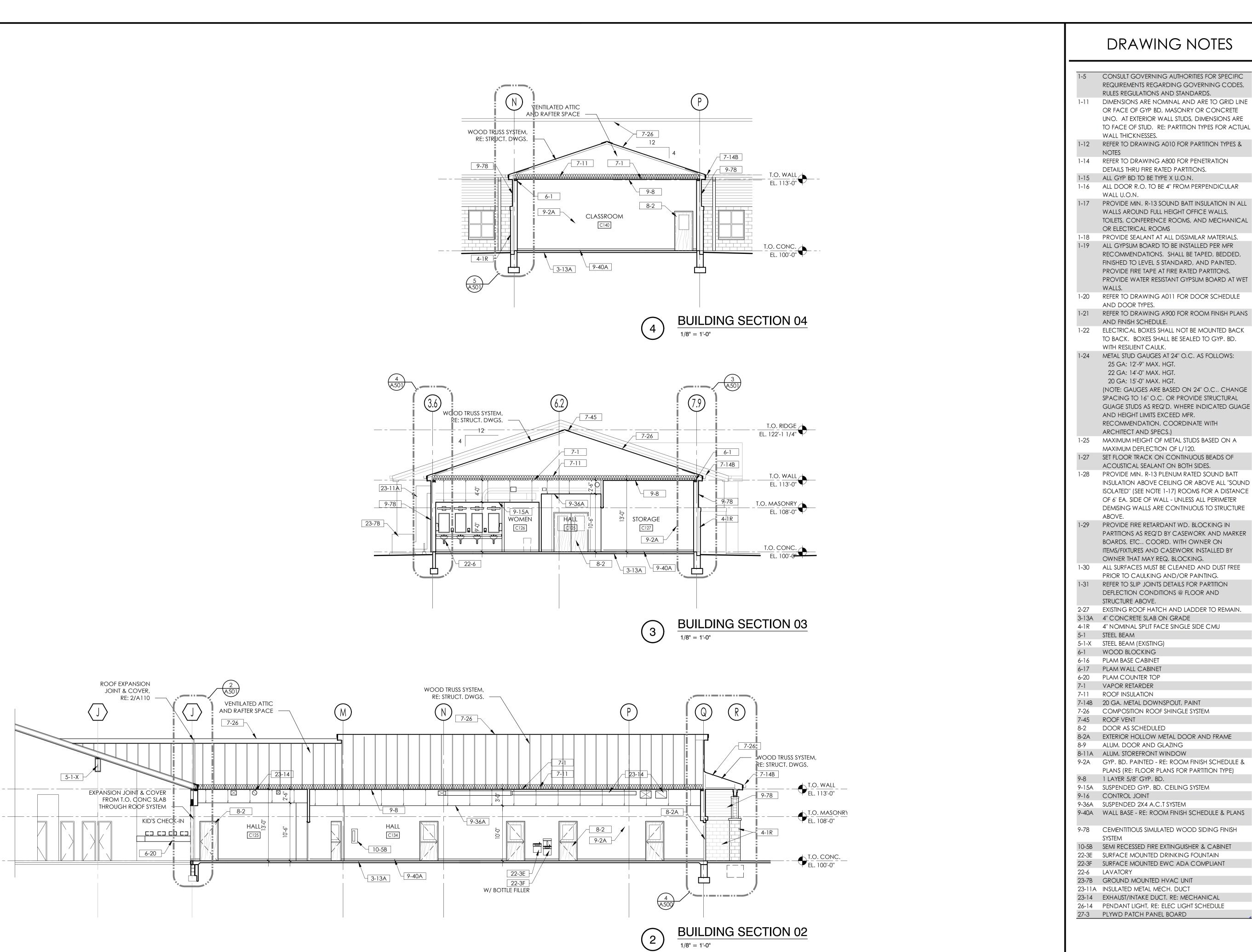
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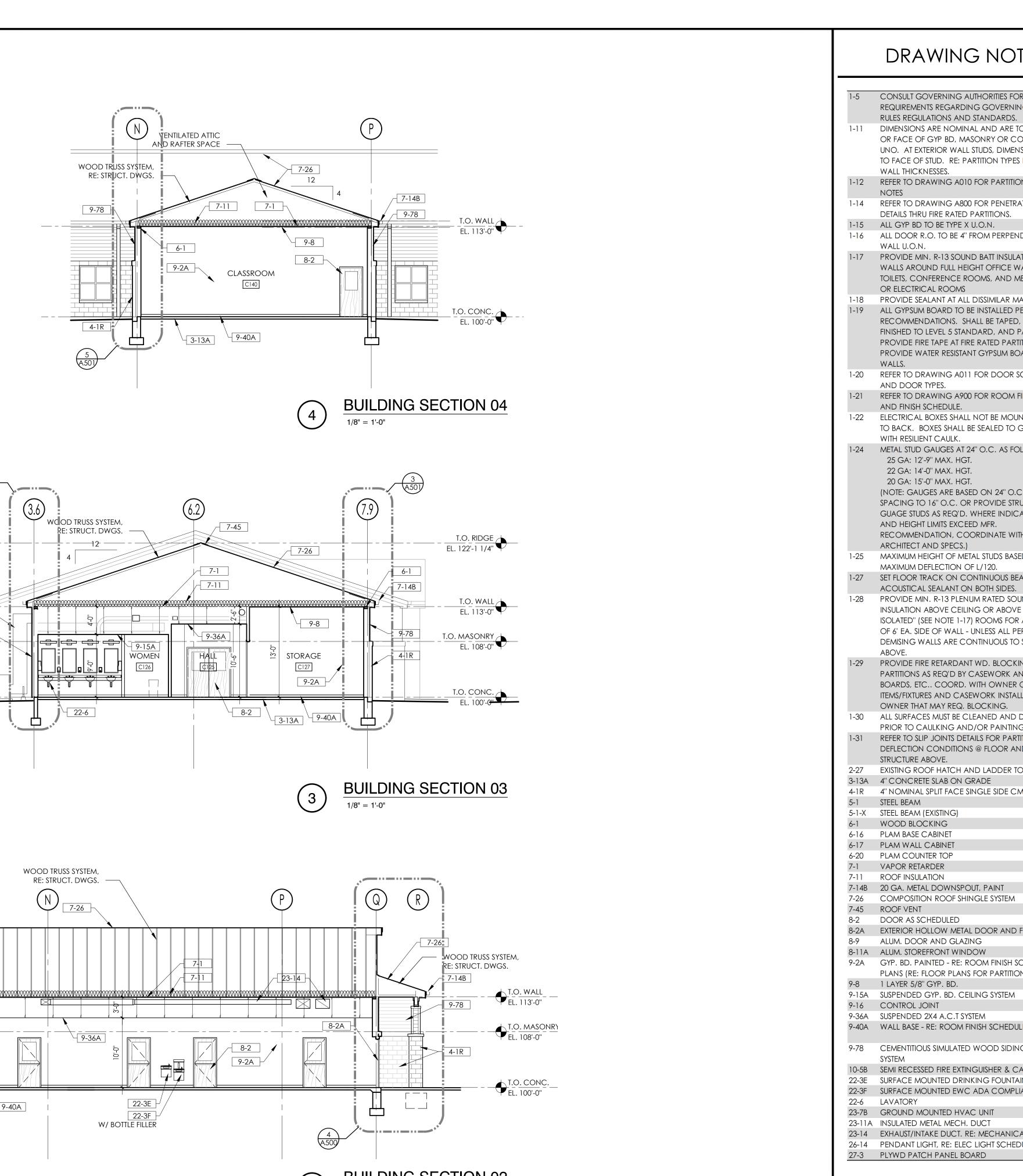
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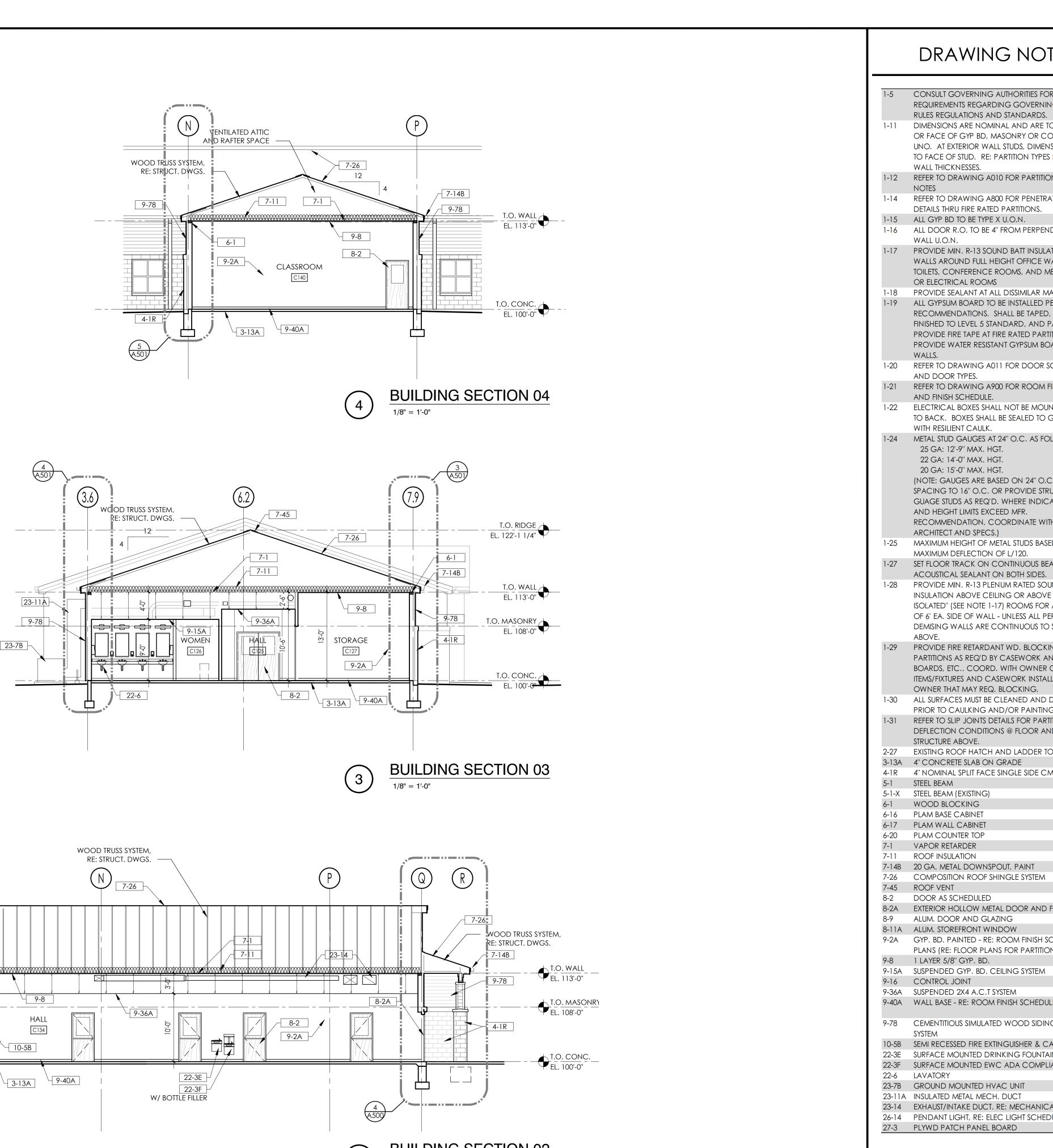
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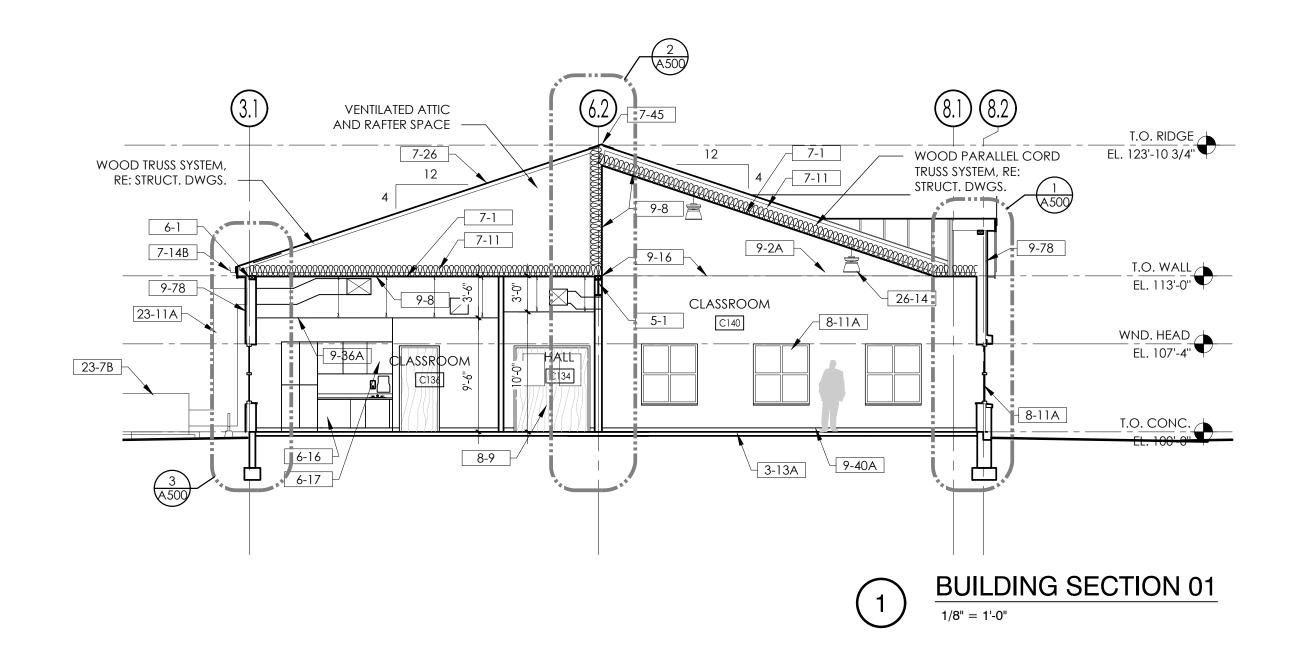
Creekside Base 9-25-24

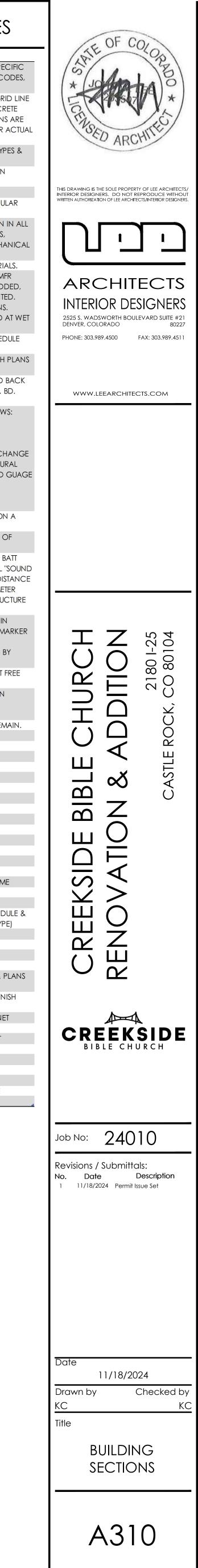


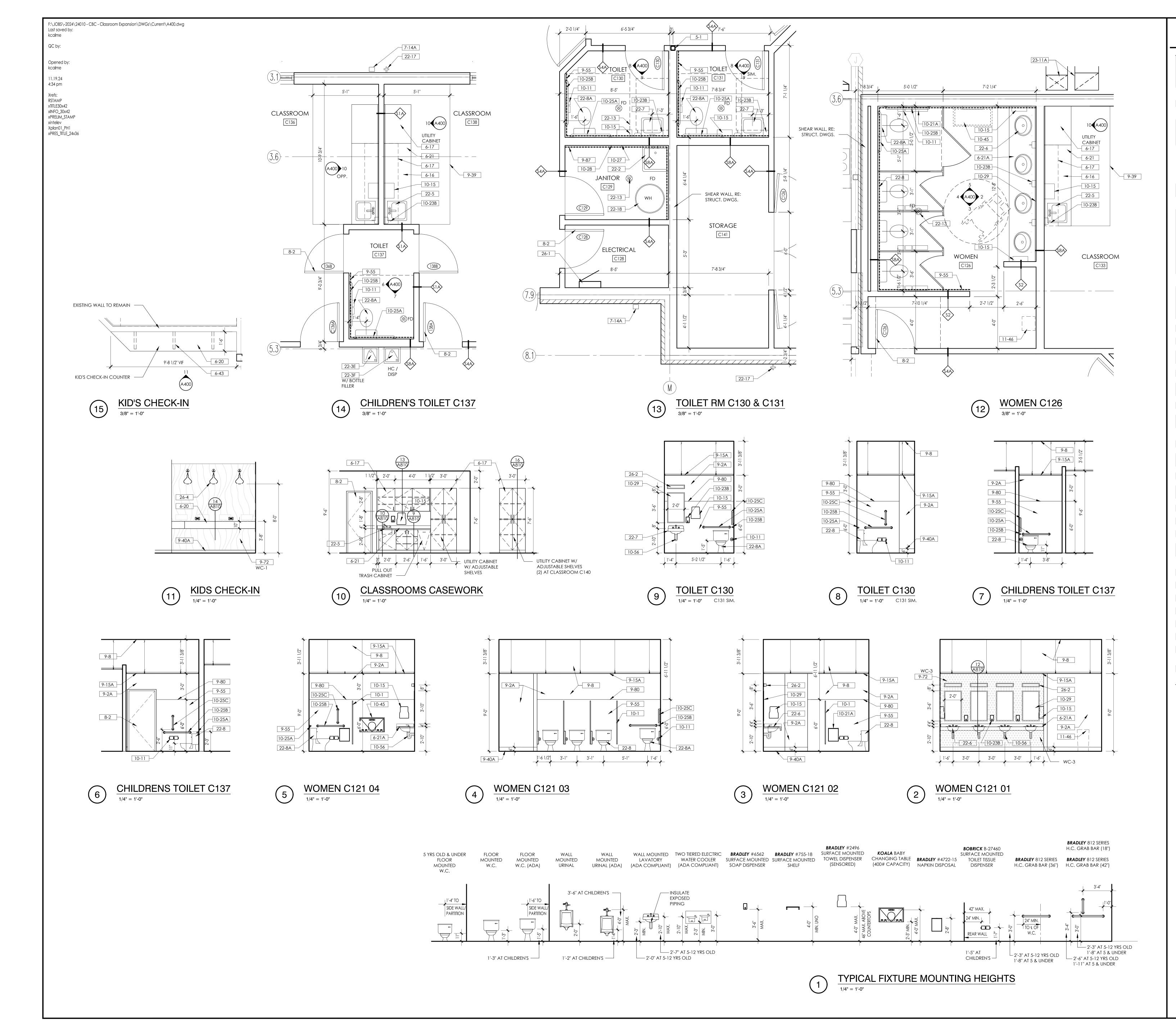
1/8" = 1'-0"







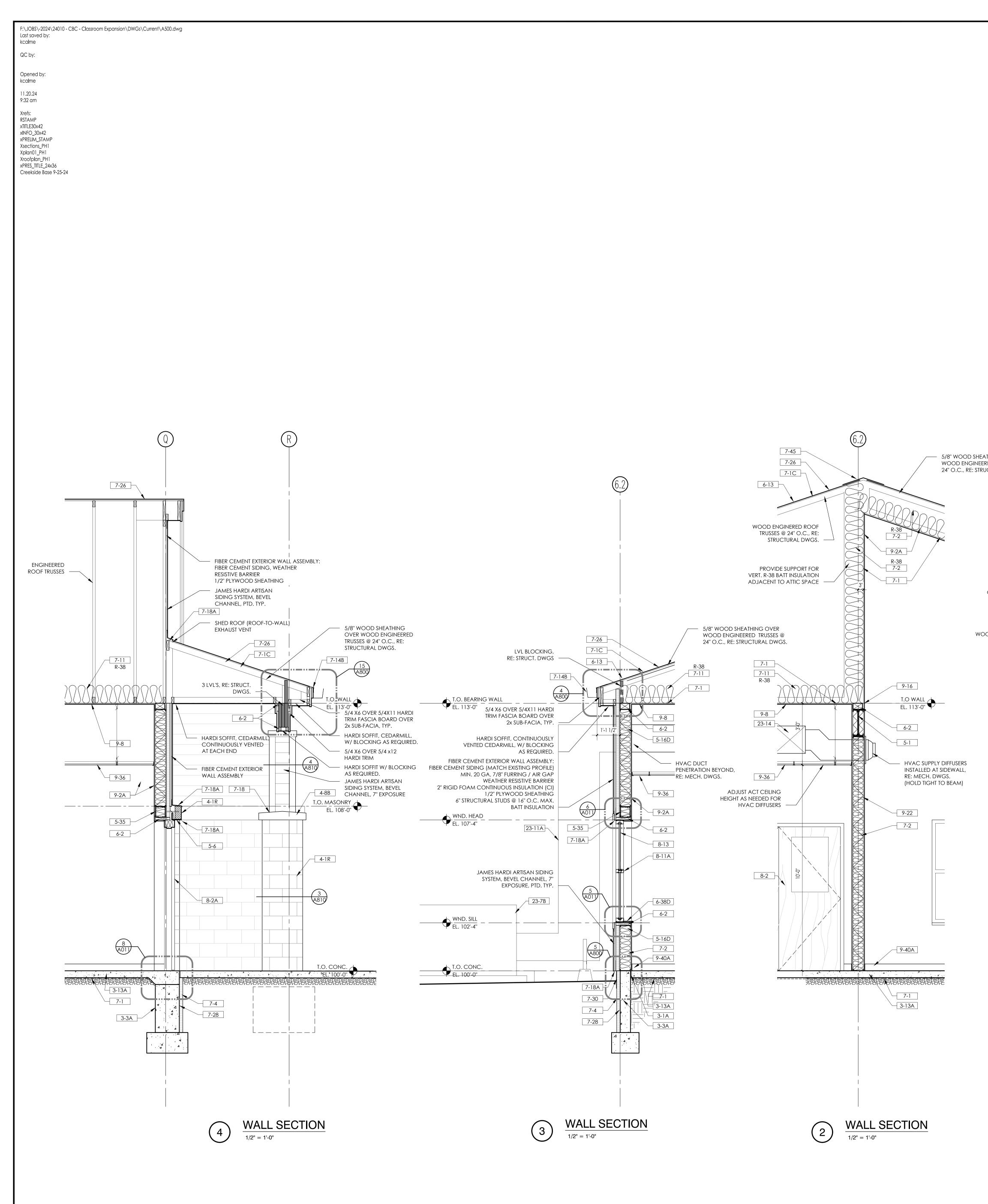




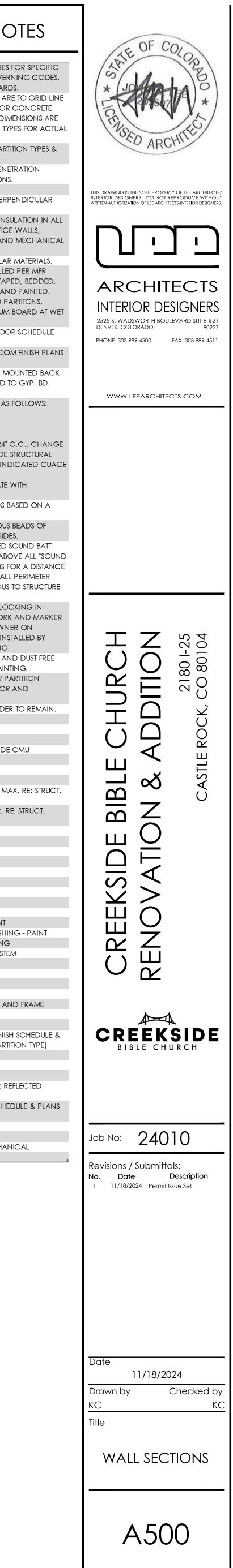
1-11	DIMENSIONS ARE NOMINAL AND ARE TO G OR FACE OF GYP BD, MASONRY OR CONC UNO. AT EXTERIOR WALL STUDS, DIMENSIO
	TO FACE OF STUD. RE: PARTITION TYPES FOR WALL THICKNESSES.
1-12	REFER TO DRAWING A010 FOR PARTITION T NOTES
1-15 1-16	ALL GYP BD TO BE TYPE X U.O.N. ALL DOOR R.O. TO BE 4" FROM PERPENDIC
	WALL U.O.N.
1-17	PROVIDE MIN. R-13 SOUND BATT INSULATION WALLS AROUND FULL HEIGHT OFFICE WALL TOILETS, CONFERENCE ROOMS, AND MECH OR ELECTRICAL ROOMS
1-19	ALL GYPSUM BOARD TO BE INSTALLED PER N RECOMMENDATIONS. SHALL BE TAPED, BE
	FINISHED TO LEVEL 5 STANDARD, AND PAIN PROVIDE FIRE TAPE AT FIRE RATED PARTITON PROVIDE WATER RESISTANT GYPSUM BOARE WALLS.
1-20	REFER TO DRAWING A011 FOR DOOR SCH
1-21	AND DOOR TYPES. REFER TO DRAWING A900 FOR ROOM FINIS
1-24	AND FINISH SCHEDULE. METAL STUD GAUGES AT 24" O.C. AS FOLLO 25 GA: 12'-9" MAX. HGT. 22 GA: 14'-0" MAX. HGT. 20 GA: 15'-0" MAX. HGT.
	(NOTE: GAUGES ARE BASED ON 24" O.C., C SPACING TO 16" O.C. OR PROVIDE STRUCT GUAGE STUDS AS REQ'D. WHERE INDICATED AND HEIGHT LIMITS EXCEED MER.
	RECOMMENDATION, COORDINATE WITH
1-25	ARCHITECT AND SPECS.) MAXIMUM HEIGHT OF METAL STUDS BASED (
1-29	MAXIMUM DEFLECTION OF L/120. PROVIDE FIRE RETARDANT WD. BLOCKING
	PARTITIONS AS REQ'D BY CASEWORK AND BOARDS, ETC COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED OWNER THAT MAY REQ. BLOCKING.
5-1	STEEL BEAM
6-16	PLAM BASE CABINET
6-17 6-20	PLAM WALL CABINET PLAM COUNTER TOP
6-21	PLAM COUNTER TOP WITH SPLASH
6-21A	SOLID SURFACE / QUARTZ COMPOSITE CO TOP WITH SPLASH, RE: FINSIH SCHED.
6-43 7-14A	COUNTERTOP SUPPORT BRACKET 18 GA. METAL DOWNSPOUT - PREFINISHED
8-2 9-2A	DOOR AS SCHEDULED GYP. BD. PAINTED - RE: ROOM FINISH SCHE
	PLANS (RE: FLOOR PLANS FOR PARTITION TY
9-8 9-15A	1 LAYER 5/8" GYP. BD. SUSPENDED GYP. BD. CEILING SYSTEM
9-39 9-40A	VINYL COMPOSITION TILE WALL BASE - RE: ROOM FINISH SCHEDULE &
9-55	CERAMIC TILE WAINSCOT - RE: ROOM FINIS
9-72	SCHEDULE & PLANS VINYL WALL COVERING
9-80	SCHLUTER EDGE
9-87	FRP WAINSCOT - RE: ROOM FINISH SCHEDU PLANS
10-1 10-11	TOILET PARTITION SURF. MOUNT. TOILET PAPER DISP. (BY OWN
10-15	SURF. MOUNT. PAPER TOWEL DISP. (BY OW)
10-21A	SURFACED MOUNTED FEMININE NAPKIN DIS
10-23B	SOAP DISPENSER (WALL MOUNTED - BY OW
10-25A 10-25B	36" HORIZONTAL GRAB BAR (W.C. BACK) 42" HORIZONTAL GRAB BAR (W.C. SIDE)
10-25C	18" VERTICAL GRAB BAR (W.C. SIDE)
10-27	UTILITY SHELF
10-28 10-29	MOP HOLDER FRAMED MIRROR
10-45	WALL MOUNTED PLASTIC DIAPER CHANGIN
10-56	ADA COMPLIANT UNDER-SINK PROTECTOR SUPPLY LINES AND P-TRAP
11-46	TRASH CAN (BY OWNER)
22-2	MOP SERVICE SINK
22-3E 22-3F	SURFACE MOUNTED DRINKING FOUNTAIN SURFACE MOUNTED EWC ADA COMPLIANT
22-5	SINK
22-6 22-7	
22-7 22-8	WALL MOUNTED LAVATORY (ADA) FLOOR MOUNTED FLUSH VALVE WC
22-8A	FLOOR MOUNTED FLUSH VALVE WC (ADA)
22-13 22-17	FLOOR DRAIN FREEZELESS WALL HYDRANT
22-17	WATER HEATER
23-11A	INSULATED METAL MECH. DUCT
26-1	PANEL BOARD - PROVIDE PLYWOOD BACK REQ'D
26-2	WALL MOUNTED DEVICE RE: ELEC.
26-4	LIGHT FIXTURE, TYP. REFER TO ELECTRICAL SCHEDULE.

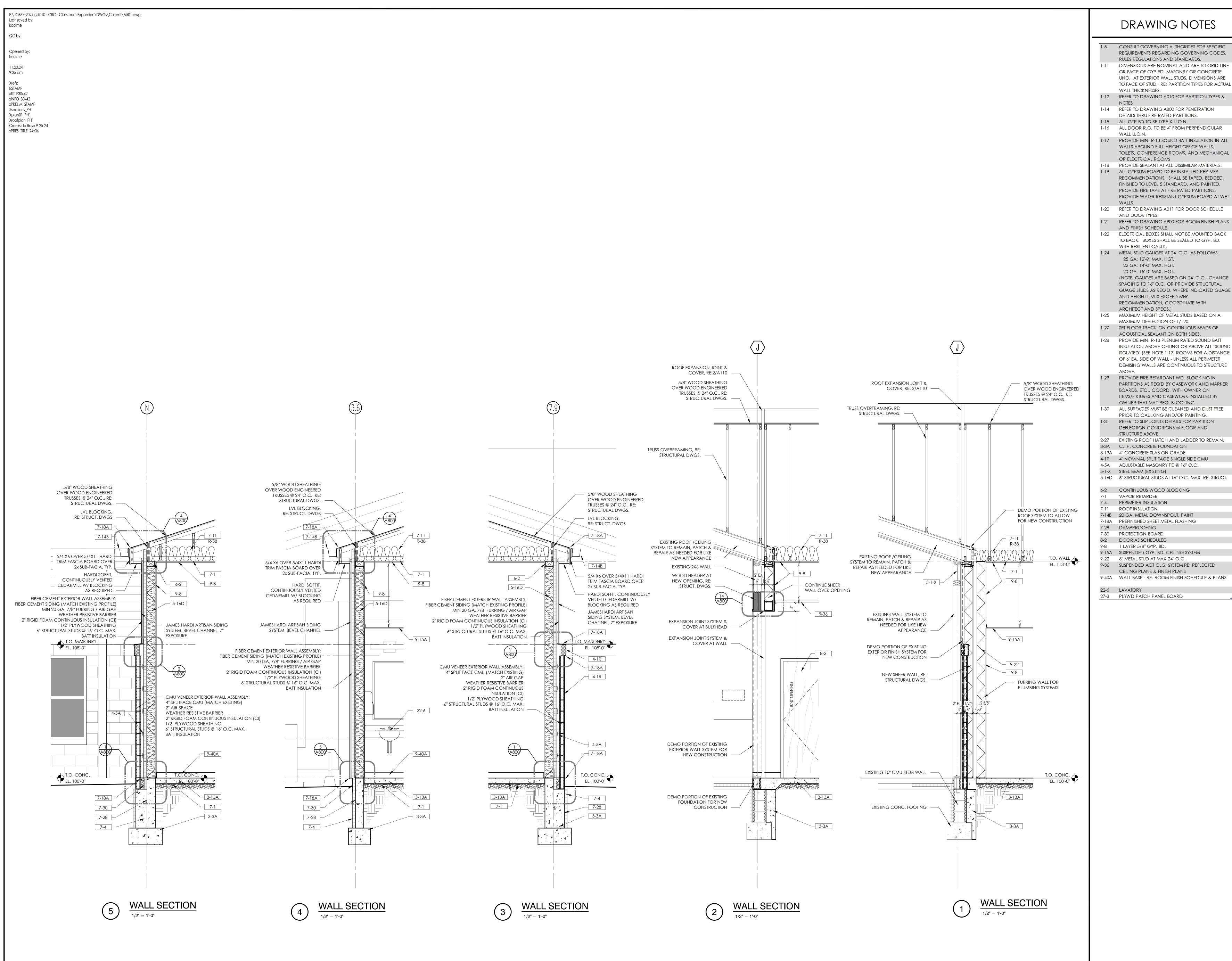
SCHEDULE.

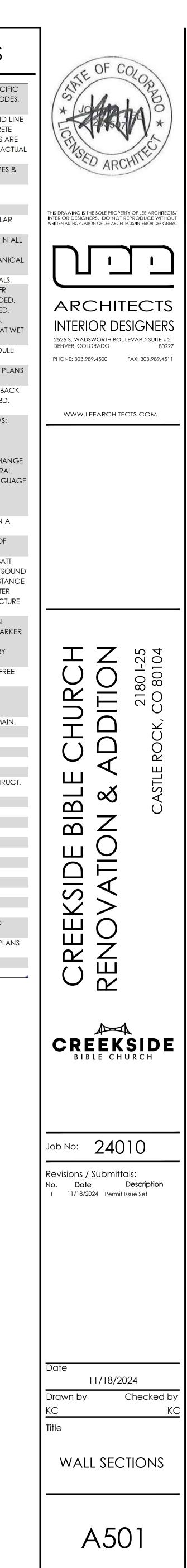




		DRAWING NOTES
	1-5 1-11 1-12 1-14 1-15 1-16 1-17	CONSULT GOVERNING AUTHORITIES FOR SPEC REQUIREMENTS REGARDING GOVERNING CO RULES REGULATIONS AND STANDARDS. DIMENSIONS ARE NOMINAL AND ARE TO GRIN OR FACE OF GYP BD, MASONRY OR CONCRI UNO. AT EXTERIOR WALL STUDS, DIMENSIONS TO FACE OF STUD. RE: PARTITION TYPES FOR A WALL THICKNESSES. REFER TO DRAWING A010 FOR PARTITION TYP NOTES REFER TO DRAWING A800 FOR PENETRATION DETAILS THRU FIRE RATED PARTITIONS. ALL GYP BD TO BE TYPE X U.O.N. ALL DOOR R.O. TO BE 4" FROM PERPENDICUL WALL U.O.N. PROVIDE MIN. R-13 SOUND BATT INSULATION
	1-18 1-19 1-20 1-21 1-22 1-24	 WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHAI OR ELECTRICAL ROOMS PROVIDE SEALANT AT ALL DISSIMILAR MATERIA ALL GYPSUM BOARD TO BE INSTALLED PER MFI RECOMMENDATIONS. SHALL BE TAPED, BEDD FINISHED TO LEVEL 5 STANDARD, AND PAINTE PROVIDE FIRE TAPE AT FIRE RATED PARTITONS. PROVIDE WATER RESISTANT GYPSUM BOARD A WALLS. REFER TO DRAWING A011 FOR DOOR SCHED AND DOOR TYPES. REFER TO DRAWING A900 FOR ROOM FINISH I AND FINISH SCHEDULE. ELECTRICAL BOXES SHALL NOT BE MOUNTED E TO BACK. BOXES SHALL BE SEALED TO GYP. B WITH RESILIENT CAULK. METAL STUD GAUGES AT 24" O.C. AS FOLLOWS 25 GA: 12'-9" MAX. HGT. 20 GA: 15'-0" MAX. HGT. 21 GAUGES ARE BASED ON 24" O.C CH. SPACING TO 16" O.C. OR PROVIDE STRUCTUR GUAGE STUDS AS REQ'D. WHERE INDICATED O AND HEIGHT LIMITS EXCEED MFR. RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.) MAXIMUM HEIGHT OF METAL STUDS BASED ON
EATHING OVER ERED TRUSSES @ RUCTURAL DWGS.	1-27 1-28 1-28 1-30 1-31 1-31 2-27 3-1A 3-3A 3-13A 4-1R 4-8B 5-1 3-3A 3-13A 4-1R 4-8B 5-1 5-6 5-16D 5-35 6-2 6-13 6-38D 7-1 7-1C	SET FLOOR TRACK ON CONTINUOUS BEADS O ACOUSTICAL SEALANT ON BOTH SIDES. PROVIDE MIN. R-13 PLENUM RATED SOUND BA INSULATION ABOVE CEILING OR ABOVE ALL "S ISOLATED" (SEE NOTE 1-17) ROOMS FOR A DIST OF 6' EA. SIDE OF WALL - UNLESS ALL PERIMETED DEMISING WALLS ARE CONTINUOUS TO STRUCT ABOVE. PROVIDE FIRE RETARDANT WD. BLOCKING IN PARTITIONS AS REQ'D BY CASEWORK AND MA BOARDS, ETC COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED BY OWNER THAT MAY REQ. BLOCKING. ALL SURFACES MUST BE CLEANED AND DUST F PRIOR TO CAULKING AND/OR PAINTING. REFER TO SLIP JOINTS DETAILS FOR PARTITION DEFLECTION CONDITIONS @ FLOOR AND STRUCTURE ABOVE. EXISTING ROOF HATCH AND LADDER TO REM. 1/2" COMPRESSIBLE FILLER C.I.P. CONCRETE FOUNDATION 4" CONCRETE SLAB ON GRADE 4" NOMINAL SPLIT FACE SINGLE SIDE CMU PRE-CAST CAP STEEL BEAM STEEL LINTEL 6" STRUCTURAL STUDS AT 16" O.C. MAX. RE: STR 18 GA STRUCTURAL JOIST HEADER, RE: STRUCT DWGS. CONTINUOUS WOOD BLOCKING 5/8" PLYWOOD SHEATHING PAINTED MDF SILL VAPOR RETARDER WATER RESISTIVE BARRIER
9-2A 9-16	7-2 7-3A 7-4 7-11 7-14B 7-18 7-18A 7-26 7-28 7-30 7-45 8-2 8-2 8-2 8-2 8-2 8-11A 8-13 9-2A 9-8 9-16 9-22 9-36 9-40A 23-7B	BATT INSULATION RE: SPECS 2" RIGID INSULATION PERIMETER INSULATION ROOF INSULATION 20 GA. METAL DOWNSPOUT, PAINT 24 GAUGE GALV. SHEET MTL. FLASHING - PAIN PREFINISHED SHEET METAL FLASHING COMPOSITION ROOF SHINGLE SYSTEM DAMPPROOFING PROTECTION BOARD ROOF VENT DOOR AS SCHEDULED EXTERIOR HOLLOW METAL DOOR AND FRAME ALUM. STOREFRONT WINDOW 1" TINTED INSULATING GLASS GYP. BD. PAINTED - RE: ROOM FINISH SCHEDU PLANS (RE: FLOOR PLANS FOR PARTITION TYPE 1 LAYER 5/8" GYP. BD. CONTROL JOINT 6" METAL STUD AT MAX 24" O.C. SUSPENDED ACT CLG. SYSTEM RE: REFLECTED CEILING PLANS & FINISH PLANS WALL BASE - RE: ROOM FINISH SCHEDULE & P GROUND MOUNTED HVAC UNIT INSULATED METAL MECH. DUCT EXHAUST/INTAKE DUCT. RE: MECHANICAL PLYWD PATCH PANEL BOARD
1		







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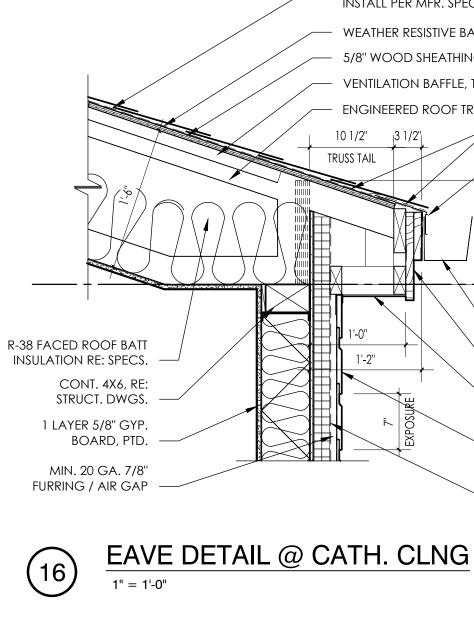
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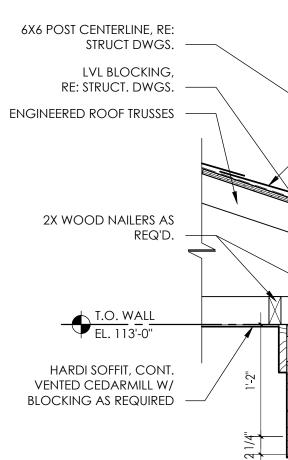
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xPRELIM_STAMP XD033SOUND WALL PENETRATIONS X805 CEILING DETAIL XD046NONRATEDGYPBDCONTROLJNT X801 BULKHEAD DETAIL X803 BULKHEAD DETAIL XD0371HRRATEDCONTROLJNT XD040DUCT1HRGYPBDPART X802 BULKHEAD EXPANSION DETAIL XD819EXPANSION JOINT COVER XD810EAVE DETAIL XD811RAKE DETAIL XD810 BRICK LEDGE DETAIL AT FOUNDATION XD813CMU SIDING DETAIL XD815 FOUNDATION DETAIL @ SIDING XD816EAVE DETAIL XD817EAVE DETAIL @ CATHEDRAL CEILING

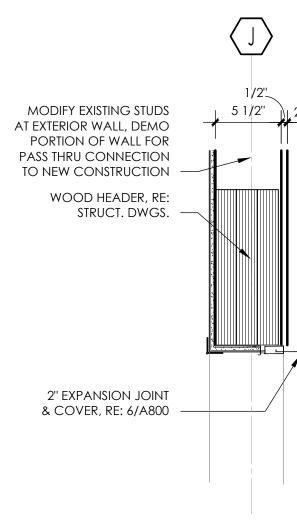




HARDI SOFFIT, CEDARMILL W/ BLOCKING AS REQUIRED

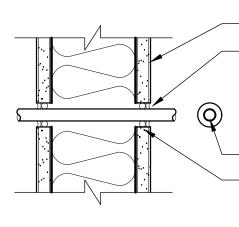


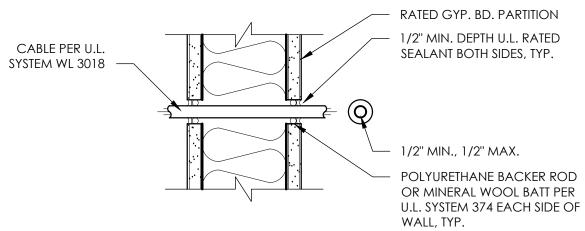
EAVE DETAIL @ PORCH 1" = 1'-0"





1 1/2" = 1'-0"









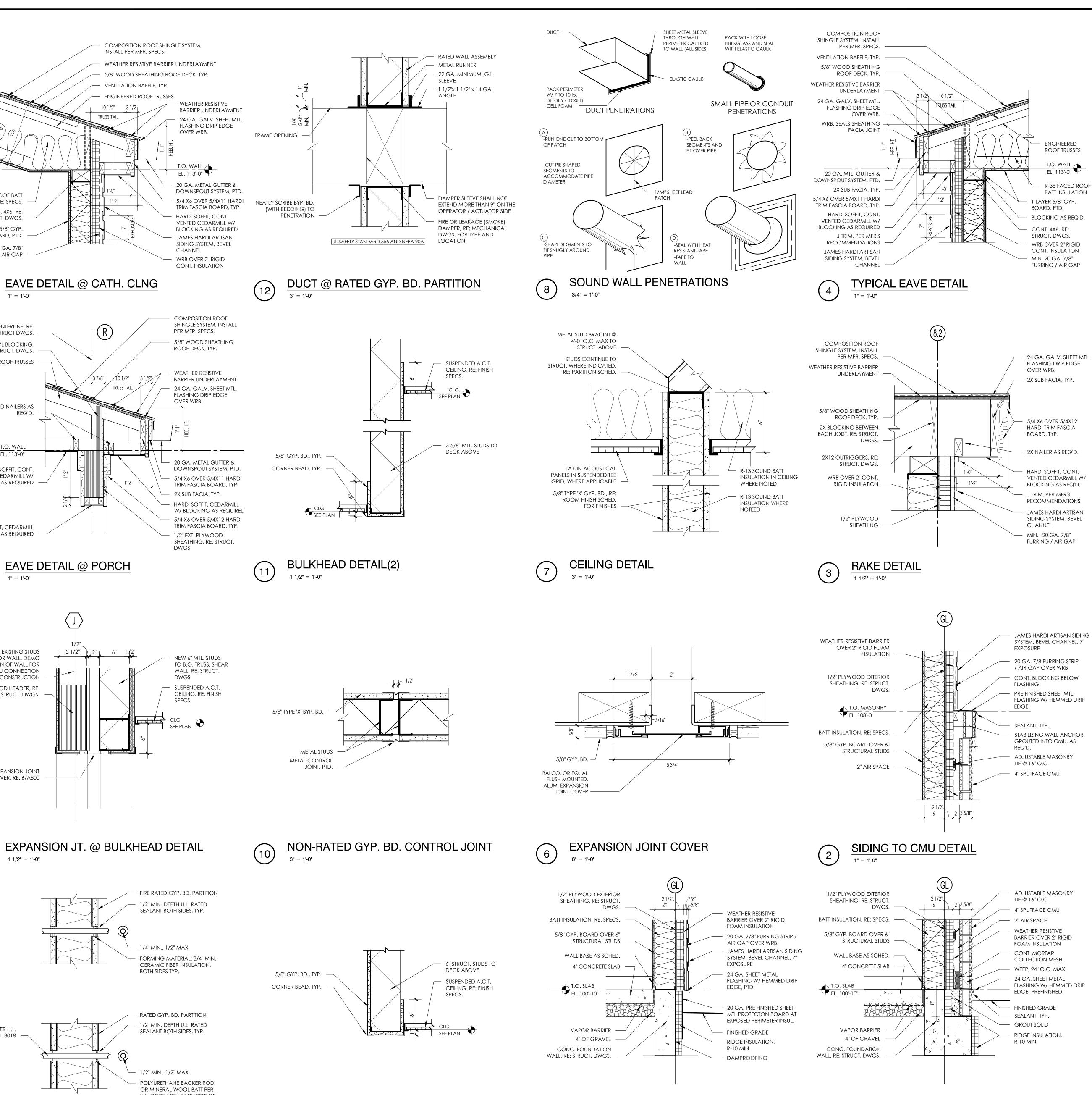














PIPE & CABLE @ GYP. BD. PARTITION

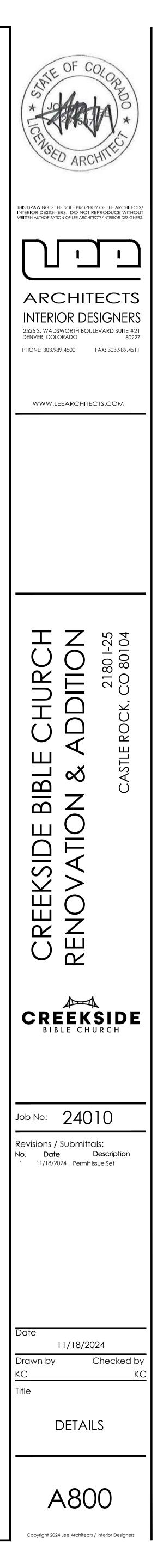


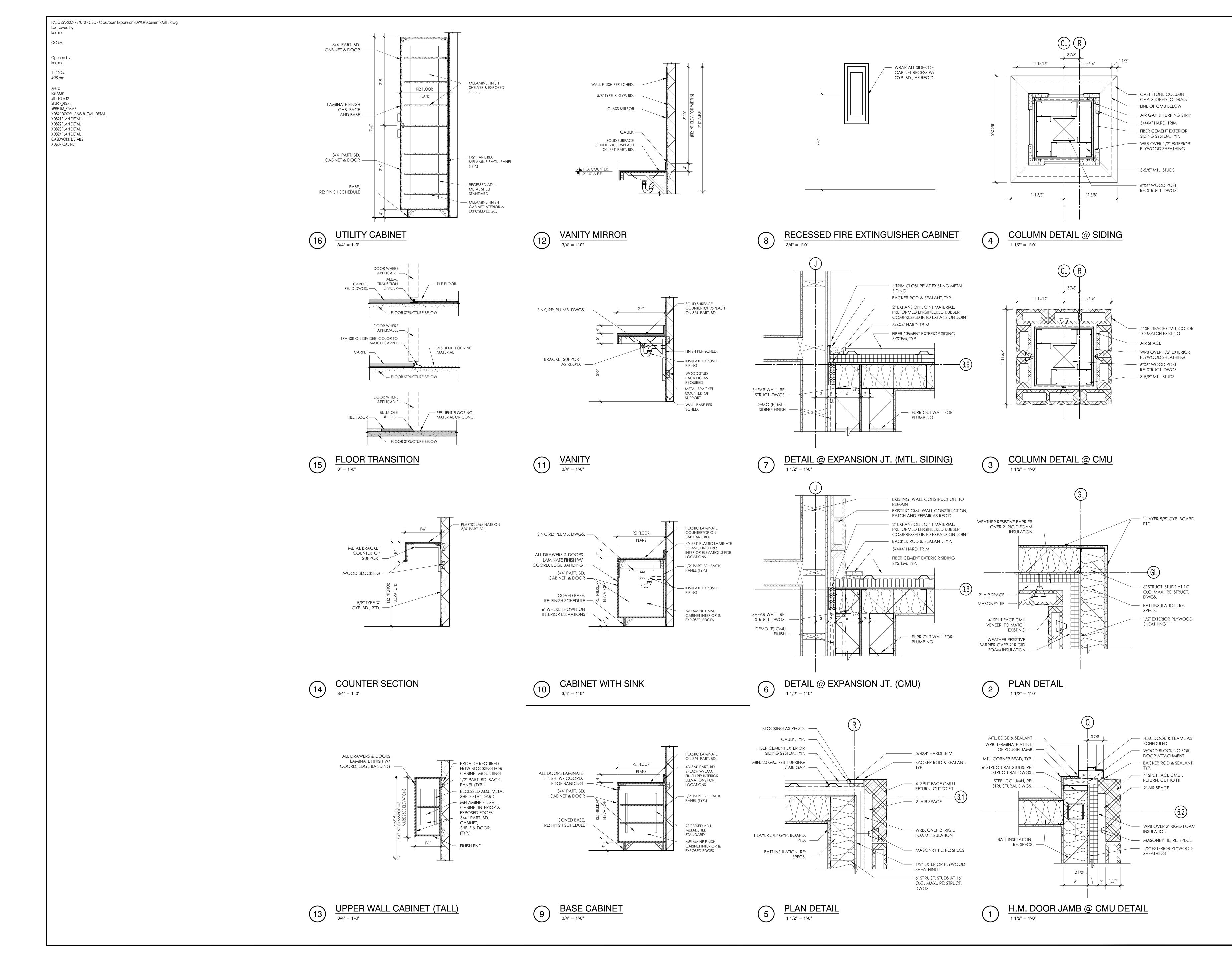


SIDING DETAIL @ FOUND.

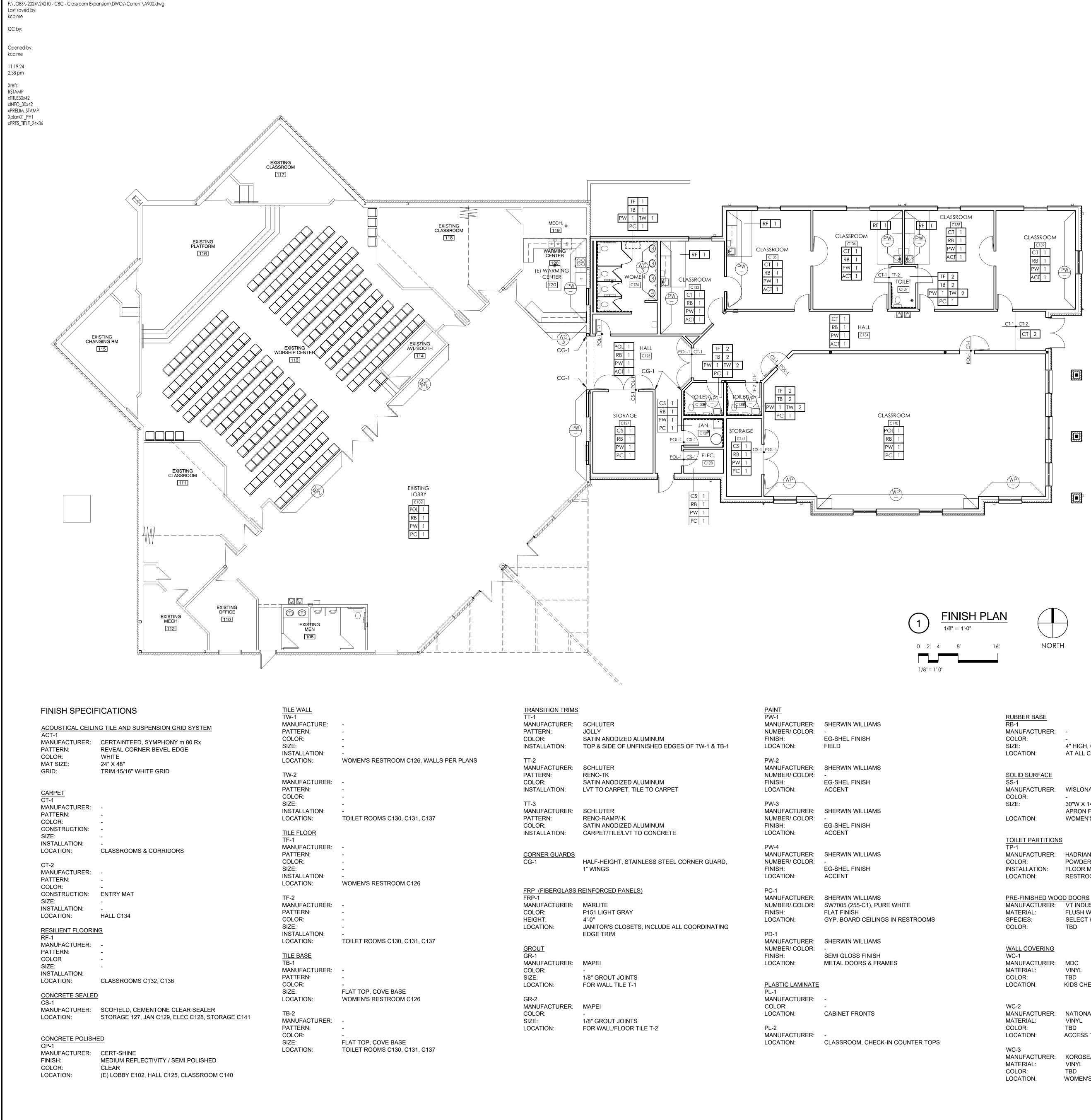
1" = 1'-0"

CMU LEDGE DETAIL @ FOUND









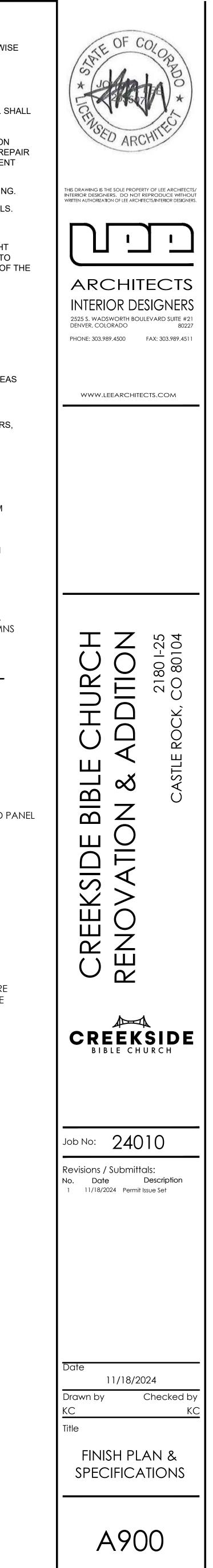
GENERAL NOTES:

- 1. FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOOR, UNLESS OTHERWISE
- NOTED. 2. ALL DRYWALL TO HAVE EGGSHELL FINISH EXCEPT SURFACES RECEIVING WALL
- COVERINGS. 3. ALL CEILING HEIGHTS 9'-6" ABOVE FINISH FLOOR U.O.N.
- 4. ALL GYPSUM BOARD TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, PRIMED AND TEXTURED AND PAINTED WHERE NO OTHER WALL COVERING IS SPECIFIED. WALLS AND CEILING TO GET LEVEL "4" FINISH IN STORAGE, MECHANICAL AND ELECTRICAL ROOMS. DO NOT APPLY TEXTURE WHERE PROJECTION SCREENS WILL BE APPLIED. TEXTURE, ADJACENT TO EXISTING WALLS & AT PATCH /REPAIR WORK, TO MATCH EXISTING. COORDINATE WITH ARCHITECT PRIOR TO COMMENCMENT WITH WORK.
- 5. ALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING AND PAINTING.
- 6. NOTE: ALL FINISHES ARE TO BE APPROVED WITH OWNER PRIOR TO FINAL SUBMITTALS.
- 7. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT /UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" (13mm) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR OR GROUND SURFACES AND SHALL HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH I.B.C. SECTION 303.
- 8. ALL CEILING ACOUSTICAL TILE AND GRID SHALL BE ACT-1 U.O.N.
- 9. ALL CARPET SHALL BE CT-1 U.O.N
- 10. ALL CONCRETE FLOORS SHALL RECEIVE CS-1 CONCRETE SEALER U.O.N
- 11. ALL GROUT SHALL BE GR-1 U.O.N.
- 12. ALL WALL PAINT SHALL BE P-1 U.O.N.
- 13. ACCENT PAINT COLORS WILL OCCUR ON ADDITIONAL WALLS IN MISCELLANEOUS AREAS THROUGHOUT THE BUILDING. EXACT LOCATIONS ARE NOTED.
- 14. ALL CEILING GYP BD SHALL BE PAINTED P-7 U.O.N. 15. ALL H.M. DOOR FRAMES, EXPOSED STEEL COLUMNS, STAIR STRINGERS, STAIR RISERS, GUARDRAILS, AND HANDRAILS SHALL BE PAINTED U.O.N.
- 16. ALL PLASTIC LAMINATE SHALL BE PL-1 U.O.N.
- 17. ALL WALL BASE SHALL BE RB-2 U.O.N.
- 18. ALL WALL TILE SHALL BE T-1 U.O.N.
- 19. SEE FINISH SPECIFICATIONS FOR TILE TRANSITION AND FLOORING TRANSITION TRIM SELECTIONS ("TT").
- 20. REFER TO DRAWING A920 FOR CASEWORK DETAILS.
- 21. FLOORING CONTRACTOR TO PROVIDE AND CONTINUE SCHEDULED FLOORING FROM PARTITION TO PARTITION AND UNDER MILLWORK UNLESS OTHERWISE NOTED.
- 22. SEAM SEALER REQUIRED AT ALL CARPET SEAMS IN ACCORDANCE WITH THE CRI INSTALLATION INSTRUCTIONS.

PAINT ALL DOOR FRAMES, HM DOORS, RAILINGS, AND EXPOSED STEEL COLUMNS

ABBREVIATIONS:

		ACT = ACOUSTICAL TILE
<u>,,,,,,,,,,,,</u> ,	FINISH LEGEND:	ALUM = ALUMINUM CONC = CONCRETE CG = CORNER GUARDS CT = CARPET TILES
	H	CT = CARPET TILES CS = CONCRETE SEALED ER = EXISTING TO REMAIN EM = ENTRANCE MAT EP = EPOXY FLOORING ES = EXPOSED STRUCTURE F = FABRIC FRP = FIBERGLASS REINFORCED F PC = PAINT, CEILING PD = PAINT, CEILING PD = PAINT, DOOR FRAME PF = PREFINISHED PL = PLASTIC LAMINATE POL = POLISHED CONCRETE PS = PAINT, STEEL PW = PAINT, WALL
<u>RUBBER BASE</u> RB-1 MANUFACTURER:	_	RB = RESILIENT BASE RF = RESILIENT FLOORING SC = STAINED CONCRETE TB = TILE, BASE TF = TILE, FLOOR TW = TILE, WALL UF = UNFINISHED U/S = UNDERSIDE OF STRUCTURE VCT = VINYL COMPOSITION TILE WD = WOOD FINISH
COLOR: SIZE: LOCATION:	- 4" HIGH, COVED AT ALL CARPETS, CONCRETE & RF	WS = WOOD STAIN
<u>SOLID SURFACE</u> SS-1 MANUFACTURER: COLOR: SIZE:	WISLONART - 30"W X 144"L SLAB, 1/2" THICKNESS, PENCIL EDGES,	
LOCATION:	APRON FRONT WOMEN'S RESTROOM C126	
TOILET PARTITIONS TP-1 MANUFACTURER: COLOR: INSTALLATION: LOCATION:	5 HADRIAN METAL PARTITIONS POWDER COATED, TBD FLOOR MOUNT WITH HEADRAIL BRACING RESTROOMS	
WALL COVERING WC-1 MANUFACTURER: MATERIAL: COLOR: LOCATION:	MDC VINYL TBD KIDS CHECK-IN WALL AT LOBBY	
WC-2 MANUFACTURER: MATERIAL: COLOR: LOCATION:	NATIONAL VINYL TBD ACCESS TO WORSHIP CENTER SIDE WALLS	
WC-3 MANUFACTURER:	KOROSEAL VINYL	
	RUBBER BASE RB-1 MANUFACTURER: COLOR: SIZE: LOCATION: SOLID SURFACE SS-1 MANUFACTURER: COLOR: SIZE: LOCATION: TP-1 MANUFACTURER: COLOR: INSTALLATION: LOCATION: PRE-FINISHED WOO MANUFACTURER: MATERIAL: SPECIES: COLOR: MATERIAL: SPECIES: COLOR: WC-1 MANUFACTURER: MATERIAL: COLOR: LOCATION: WC-2 MANUFACTURER: MATERIAL: COLOR: LOCATION:	<image/> N Image: Construction of the constructi



GENERAL NOTES

DESIGN CRITERIA

1. All work shall conform to the minimum standards of the International Building Code, 2021 edition and any other regulatory agencies that have authority over any portion of the work.

25 psf

actual weight

- 2. Design Loads Dead Loads
 - Roof total dead load Mechanical equipment

Roof Snow Load

Snow Criteria: Pf = 39, Ce = 0.9, Ct = 1.1, Is = 1.1

Risk Category III

Wind Criteria 120 mph (3 second gust, Ultimate) 72 mph (ASD), Exposure C Building Category = Enclosed

Internal Pressure Coefficient = ± 0.18

COMPONENTS AND CLADDING WIND PRESSURES ^{1,2}							
	Effective Area						
Zones ³	10 sf 20 sf 50 sf 100 sf						
Zone 1 - Roof Interior	46 (28)	46 (28)	28 (17)	16 (10)			
Zone 2 - Roof Edge	67 (40)	58 (35)	46 (28)	37 (23)			
Zone 3 - Roof Corner	80 (48)	68 (41)	53 (32)	42 (26)			
Zone 4 - Wall Typical	27 (16)	26 (16)	25 (15)	23 (14)			
Zone 5 - Wall Corner	34 (21)	31 (19)	28 (17)	26 (16)			
Parapet	NA	NA	NA	NA			

Seismic Criteria

Site Class D, Design Category B, Equivalent Lateral Force Procedure Seismic Force Resisting System = Light-frame walls sheathed with wood structural panels R = 6.5, Fa = 1.6, Fv = 2.4, Ss = 0.215, S1 = 0.058, SDS = 0.229, SD1 = 0.093, le = III

- Footnotes
- 1. Pressures shown are determined using ASCE 7-16 and are ultimate with ASD level pressures shown in parentheses.
- 2. Refer to details for wind loading on miscellaneous rooftop structures, etc. Roof overhangs shall be
- designed for applicable component and cladding loads per 30.9-1 for ASCE 7-16. 3. Refer to Figure 30.3-1 through 30.4-1 in ASCE 7-16 for description of each zone.

FIRE RESISTANCE RATINGS

- 1. Building construction type: Type V-B 2. Fire-resistance rating requirements for building elements:
- a. Primary structural frame: 0 hour

b. Floor construction: 0 hour c. Roof construction: 0 hour

SHOP DRAWINGS AND SUBMITTALS

- 1. The Contractor shall coordinate, review and submit shop drawings that identify all penetrations for all trades through structural walls, slabs, beams, and columns. A single drawing of each portion of the structure identifying locations and sizes of all sleeves and blockouts shall be submitted for review and approval six weeks prior to placing concrete in these structural elements. Penetrations not shown on the approved shop drawings will not be permitted in the field. Penetrations include all pipes, sleeves, conduit, blockouts, elements exceeding 1/3 the slab thickness, and other openings through concrete including slab-on-metal deck. Prior approval must be obtained from engineer for all coring of concrete and shall be reviewed on a caseby-case basis.
- 2. Shop drawings and calculations for all informational and action submittals as noted in project specifications shall be submitted to the Architect/Engineer for approval prior to fabrication or construction of all structural items including the following: concrete and masonry reinforcement, embedded steel items, structural steel, metal decking, shear stud layout, stairs, pre-engineered wood and pre-engineered cold-formed steel. Approved shop drawings shall be submitted to the local Building Department by
- the contractor for record only. Allow 2 weeks for review of shop drawings. 3. The general contractor shall submit any substitution request to the Architect/Engineer prior to making any changes. The request shall include all information required for the engineer to fully evaluate the substitution and determine any required compensation for the evaluation
- 4. Design, materials, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the Owner, Architect/Engineer, and the applicable governing code authority.

SPECIAL INSPECTIONS

- 1. Special inspection, in accordance with the International Building Code or as required by the construction documents, shall be performed by a qualified inspector from an approved agency. Reports shall be issued to the Architect/Engineer and the Building Department at the completion of each type of work stating whether the work was performed in conformance with the approved plans and specifications. See inspection schedules for specific requirements.
- 2. Any item that is listed as a discrepancy by the independent testing agency shall be kept in a log by the General Contractor throughout the project. the log shall include the discrepancy number, date of discrepancy, and description of discrepancy. The General Contractor shall contact the engineer in a timely manner to address each discrepancy and keep a record of the required corrections. The letter of substantial completion provided by the engineer cannot be released until every item listed in the discrepancy log has been addressed and resolved.

CONSTRUCTION

- 1. All omissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the Architect/Engineer before proceeding with any work so involved.
- 2. A detail, section, or elevation reference may be indicated only once on a structural construction drawing, but is to be used at all like and similar conditions. Typical and/or standard detail references may not be indicated on plan. Contractor is
- responsible for determining which details apply. 3. No modification shall be made to any structural member without the approval of the Architect/Engineer. This also applies to any openings for plumbing, electrical, and mechanical trades.
- 4. Contractor must check all dimensions, framing conditions, and site conditions before starting work. Architect/Engineer shall be notified immediately of any discrepancies or possible deficiencies. 5. The structural drawings have been completed using the available information regarding existing conditions. The structural
- engineer has not field verified any existing conditions. It is the responsibility of the General Contractor to field verify the existing conditions and notify the architect and engineer of any discrepancies before proceeding with work.
- 6. The Contractor shall be responsible for all excavation procedures and protection of adjacent property, structures, utilities etc. in accordance with all national, state, and local ordinances. 7. Stability of the structural frame during construction is the responsibility of the General Contractor. The structural frame is not complete until all connections to lateral force resisting elements have been made, inspected as required by the building
- official, and accepted by the engineer. This includes all diaphragm elements such as metal deck, plywood and gypsum board wall sheathing, metal straps, concrete topping, tie rods, and the like. All concrete elements must have reached their required strength. Temporary bracing of the structure during construction should be provided by the General Contractor and their Sub-Contractors as necessary.
- 8. Do not place backfill against basement walls until basement and first floors are in place or wall has been adequately shored. Forces due to hydrostatic pressure have not been included in the design of foundation walls. 9. All mechanical and electrical equipment purchases shall be coordinated with the structural drawings by the General
- Contractor. This includes equipment size, weight, openings, required support, etc. Any discrepancies shall be brought to the architect's and engineer's attention prior to equipment purchase. 10. The contractor shall not stockpile any building materials or equipment in a manner that will exceed the load carrying capacity, cause damage, or create excessive deflection to any structural element. The contractor shall contact the engineer for
- evaluation of locations where it may be necessary for heavy equipment or building material stockpiles prior to placement of these items on any structural element. 11. For any item that requires a change or correction due to contractor error or deficiency in construction, the contractor shall
- submit plans, details, and calculations for the proposed solution. These shall be reviewed by the Architect/Engineer prior to completion of the work. Some corrections may require submitted documentation to be stamped and signed by a professional engineer who is registered in the project jurisdiction.
- 12. Nothing contained within the contract documents shall relieve the general contractor and the subcontractors of: a. responsibility to determine any aspect of how the work is to be performed b. dealing with matters of safety of personnel
- c. safety of property d. superintending of the work
- e. construction means and methods

DEFERRED SUBMITTALS

The design of the following building components shall be treated as deferred submittals. All associated drawings and calculations shall be stamped and signed by the engineer responsible for their preparation. After review, the GC shall forward the deferred submittal documents to the Building Department. Deferred submittal items shall not be installed until their design and submittal documents have been approved by the building official:

- Wood roof trusses. Rammed aggregate piers.
- 3. Miscellaneous prefabricated architectural elements (ie handrails)

SPREAD FOOTING FOUNDATIONS

DESIGN CRITERIA

- 1. Foundation design is based upon owner's accepted recommendations for spread footings on rammed aggregate pier ground improvements as contained in the geotechnical report prepared by Ground Engineering, report number 24-3566 dated July 11, 2024.
- The frost depth is 36 inches. All exterior foundations shall be deeper than this. Allowable bearing pressure used in design is 6,000 psf.

CONSTRUCTION

- 1. All foundation excavations, compaction, fill material, testing and inspection of foundation bearing strata shall be performed under supervision of a licensed Geotechnical Engineer. Inspections shall be performed prior to placement of reinforcement
- and pouring of concrete. Contractor shall provide for de-watering of excavations to remove water from any source prior to pouring concrete. 3. Do not place concrete for foundation on frozen soil.

4. Allowable bearing pressure used in design of load combinations involving wind or seismic forces is 8,000 psf.

CONCRETE

DESIGN CRITERIA

- 1. Concrete work shall conform to all requirements of the International Building Code and ACI 318, Building Code Requirements
- for Structural Concrete, latest approved editions. 2. Prepare concrete mix designs for each type and strength of concrete, using either laboratory trial batch or field experience
- methods as specified in ACI 301. If trial batch method is used, use an independent testing facility acceptable to Engineer for preparing and reporting of proposed mix designs. 3. Submit written reports to Engineer of each proposed mix design at least 15 days prior to start of work. Do not begin concrete
- production until Engineer has reviewed mix designs.

PRODUCTS AND MATERIALS

I. Design mixes shall provide concrete with the following properties as indicated on drawings and schedules:

	CONCRETE MIX MATRIX ^{1,2}									
Міх Туре	Intended Use of Concrete	Compressive Strength ²	Maximum Aggregate Size		Exposure Class		Maximum CO₂e (<i>kg/m</i> ³)⁵	Required Admixtures		
А	Footings	3000 (56-day)	1"	F0	S0	W0	C0			
с	Interior slab-on-grade	3000psi (56-day)	3/4"	F0	S0	W0	C0			
D	Exterior slab-on-grade	4500psi (56-day)	3/4"	F3	S0	W1	C2		AEA ⁴	

Normal weight concrete unless noted otherwise. Testing age is 28 days unless noted otherwise.

3. Slump to be determined by Contractor and Mix Supplier with final approval by Engineer. Recommended slump of 5-8" for drilled piers.

Footnotes

4. Air entraining admixture 5. CO₂e content shall be documented by a product specific Type III Environmental Product Declaration for each unique mix design. Maximum CO₂e shall be achieved through use of accepted practices that might include but are not

limited to: approved blended cements (see below), supplemental cementitious materials such as fly ash, slag, or natural pozzolans, and injected carbon products or the like. Added products shall be included in Concrete mix designs and shall include product information and qualified test data for review.

- 2. Portland Cement shall conform to ASTM C150, Type I / II, Blended Cements, if used, shall conform to ASTM C595 Type IL. or ASTM C1157 (GU). Aggregate for normal weight concrete shall conform to all requirements and tests of ASTM C33. Aggregate for lightweight concrete shall conform to all requirements and tests of ASTM C330. Concrete mixing operations, etc., shall conform to ASTM C94 and ACI 304.
- 3. Non-shrink grout shall conform to ASTM C1107. 4. Water-reducing admixtures shall conform to ASTM C494, and be used in strict accordance with the manufacturer's
- recommendations. An air-entraining agent conforming to the ASTM C260 shall be used in all concrete mixes for work which is exposed to weather 5. Use accelerating admixtures in cold weather only when approved by Architect/Engineer. Use of admixtures will not relax cold weather placement requirements. Do not use calcium chloride. Use set retarding admixtures during hot weather only when
- approved by Architect/Engineer 6. For concrete mix types with Exposure Class F3, supplementary cementitious materials shall have a maximum percentage of
- total cementitious materials by mass equal to 25% for fly ash or natural pozzolans per ASTM C618, 50% for slag cement per ASTM C989, 10% for silica fume per ASTM C1240, 35% for total of fly ash or natural pozzolans and silica fume, and 50% for total of fly ash or natural pozzolans, slag cement, and silica fume.

CONSTRUCTION

- CONCRETE COVER Clear concrete coverage for reinforcing bars shall be as follows unless noted otherwise:
- Concrete exposed to earth without forms... Concrete poured in forms but exposed to earth or weather:

Concrete poured in forms but exposed to cartinor weather.		
#5 bars or smaller	1	1/2"
Bars larger than #5		
Concrete not exposed to earth or weather:		

- Slabs, walls and joists.. Beams and column bars.. 1 1/2"
- (principal reinf., ties and stirrups)
- CONSTRUCTION JOINTS AND CONTROL JOINTS
- 1. Control joints shall be provided in all slabs-on-grade at a maximum spacing of 10'-0" OC for 4" slabs and 12'-0" OC for 5 slabs, unless noted otherwise. Joints shall be 1/8" wide x (thickness/4)" deep continuous sawed joint or pre-molded joint Joints shall be provided at all column centerlines, corners and ends of walls, re-entrant corners and any other areas with high crack potential. Proposed joint locations shall be submitted to the architect for approval prior to completion of work. Slabs, walls, footings and beams shall not have joints in a horizontal plane. Any stop in concrete work must be made at quarter point of span with vertical bulkheads and horizontal keys, unless otherwise shown. All construction joints shall be as detailed or as approved by the Engineer.

-3/4". +0"

-1/4", +1/2"

. ±1/4"

1/4" in 10 feet, 1" maximum total

1/2" in 20 feet, 1" maximum total

1/4" in 10 feet, 3/4" maximum total

CONCRETE TOLERANCES Concrete tolerances shall be as specified in ACI 117 and as follows:

Tops of walls and columns... Plumbness.

- Plan alignment..
- Cross-sectional dimension.
- Size and location of sleeves and blockouts.. Slab and beam soffits..

CONDUITS, PIPES, AND SLEEVES Embedded conduits, pipes, and sleeves in concrete:

- a. Any and all conduits, pipes, and sleeves embedded in structural concrete shall be shown in plan or thoroughly described in writing and provided to the Structural Engineer for written approval a minimum of six weeks prior to
- installation. See General Notes Shop Drawings and Submittals Item 1. b. All blockouts in foundation walls and footings must be approved by the Structural Engineer prior to construction. c. All embedded items shall be located as to not impair the strength of the construction of the concrete member.
- d. Contractor shall coordinate the installation of all embedded items and penetrations. Cost of additional reinforcement or where conduit is to be provided with Schedule 40 uncoated or galvanized steel pipe (ASTM 53) shall be borne by the contractor.
- e. Elevated concrete slabs: 1. Horizontal runs of conduits shall not be embedded in any slabs less than 7" thick or any slabs on metal deck. 2. For other conditions, proposed conduits less than or equal to 1 1/2" outside diameter shall conform to the following:
- a. No embedment shall disrupt the placement of the reinforcing steel or PT tendons, where applicable. b. The conduit shall be placed within the middle third of the slab thickness. c. Parallel runs of conduits shall have a clear spacing of three times their outside diameter. No more than
- eight parallel conduit runs shall occur in a single bay. Conduit runs parallel to structural beams or walls shall be a minimum of 3'-0" away from the face of the member d. Conduits shall be installed without excess length and may only cross adjacent conduit one time within the
- middle third of the slab. e. Conduits shall not be placed through a column or within 3'-0" of a column face and shall not run through a
- stud rail. 3. Conduits with an outside diameter greater than 1 1/2" are not permitted in the slab unless specifically approved
- by the Structural Engineer. 4. Sleeves of any size and vertical conduit penetrations of the slab are not permitted within 4 times the slab
- thickness from the face of a column unless specifically approved by the Structural Engineer f. Concrete slabs on grade
- 1. Horizontal conduit shall not be embedded within a slab on grade.
- g. Concrete columns: 1. Conduits shall not penetrate or be embedded in columns unless specifically approved by the Structural
- Engineer. h. Concrete walls:
- . Conduits shall not be embedded horizontally in any wall, length wise.
- Conduits shall not be embedded vertically in any wall less than 8" thick. 3. For other conditions, proposed conduits less than or equal to 1 1/2" outside diameter shall conform to the following:
- a. No embedment shall disrupt the placement of the reinforcing steel. b. The conduit shall be placed between vertical reinforcement layers. The conduit shall be placed in the middle third of the wall for single layer vertical reinforcement. i. Concrete beams:
- Conduits shall not be embedded vertically or horizontally, length wise, in any beam. 2. All horizontal, width wise, sleeves in beams shall be submitted to the Engineer for written approval and if approved shall be installed with Schedule 40 uncoated or galvanized steel pipe (ASTM 53) sleeve.

ARCHITECTURAL REQUIREMENTS 1. Provide 3/4" chamfers at all exposed corners.

Refer to Architectural drawings for reveals, areas of textured concrete or special finishes, items required to be cast into the concrete, curbs and slab depressions

CONCRETE PLACEMENT

- 1. All concrete shall be consolidated by vibration, spading, rodding, or forking so that concrete is thoroughly worked around the reinforcement and embedded items and into corners of forms without segregation of materials. 2. <Delete if not required> All elements with a least dimension of <48"> or greater shall comply with the following temperature limits per ACI 301:
- a. Maximum temperature in concrete after placement shall not exceed 160° F. b. Maximum temperature differential between center and surface of placement shall not exceed 35° F.

FORMWORK AND SHORING

- 1. The Contractor shall design all forms and supporting shores in conformance with ACI 347. Design shall include rate and method of placing concrete and construction loads, including vertical, horizontal, and impact loads. Forms shall be substantial and sufficiently tight to prevent leakage of mortar and properly braced or tied to maintain position and shape. 2. Forms shall be removed in such a manner as not to impair safety and serviceability of the structure. All concrete to be exposed by form removal shall have sufficient strength not to be damaged thereby. Reshore until 28 days after placement, and for full duration where construction loads exceed specified service loads. Reshoring shall conform to ACI 347. Reshoring required for 3 floors minimum. MISCELLANEOUS
- 1. Cracking of concrete slabs due to shrinkage is expected. The general contractor shall anticipate repairing cracks in all slabs but particularly at the parking levels. Rout and seal all cracks 0.01 inch wide and greater as described in the specifications.

REINFORCING STEEL

PRODUCTS AND MATERIALS

- 2. Reinforcing to be welded or field bent shall be ASTM A706, Grade 60. Welding of reinforcing steel shall conform to AWS
- D1.4, using proper low hydrogen electrodes. Epoxy-coated reinforcing steel shall conform to ASTM A775 and shall be coated prior to fabrication.
- center of the concrete thickness above the deck for slabs on form deck, unless noted otherwise.
- place in an ICC approved and audited facility.

SHOP DRAWINGS

Requirements for Structural Concrete.

CONSTRUCTION

- **REINFORCING DEVELOPMENT AND SPLICES**
- provided in these drawings unless specifically noted otherwise.> 2. Extend and anchor all horizontal bars at corners and intersections to fully develop the bar. All top reinforcing shall
- 3. Continuous bars in walls, beams and grade beams shall be spliced as follows: a. Top bars - at midspan

b. Bottom bars - over supports **REINFORCING AT OPENINGS**

- slabs and walls, unless noted otherwise. 2. Provide 2- #5 bars at all reentrant and opening corners.
- GENERAL REINFORCING REQUIREMENTS 1. All reinforcing bar bends shall be made cold with a bar bender at the ACI 318 specified minimum radius. Do not use added heat to bend bars.

- reinforcing is provided. 5. Provide all accessories necessary to support reinforcing at positions shown on the plan.

- Doweling of deformed rebar into concrete shall be as specified by the Structural Engineer.
- All post-installed anchors shall meet ICC-ES compliance for each type of application. 4. If requested, ICC ES reports indicating conformance with ICC-ES Acceptance Criteria shall be provided.
- 5. The contractor shall arrange for onsite installation training from a manufacturer's representative who is certified in accordance with the ACI/CRSI Adhesive Anchor Installer certification program. If requested, the contractor shall submit certificates of the on-site personnel who will be installing the anchors to the Structural Engineer.
- All post-installed anchors in concrete shall be approved for use in seismic and cracked concrete applications. Drill and install post-installed anchors and rebar per manufacturer's printed installation instructions and on-site training. 8. Unless otherwise specified, do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design
- strength, or a minimum age of 21 days, whichever is longer.

STRUCTURAL STEEL

PRODUCTS AND MATERIALS

- 1. Wide flange shapes shall be ASTM A992.
- 2. Round hollow structural sections shall be ASTM A500 Grade C (46 ksi). Square and rectangular hollow structural sections (HSS) shall be ASTM A500 Grade C (50 ksi).
- 4. Pipe sections shall be ASTM A53 Grade B (35 ksi). 6. Plates shall be ASTM A36 unless noted otherwise. Plates used for any type of moment connection shall be ASTM A572-50.
- Miscellaneous structural steel such as angles and channels shall be ASTM A36 / ASTM A572-50.
- 7. All welding electrodes shall conform to ASTM E70XX. The minimum fillet weld size shall be 3/16", unless noted otherwise. 8. Headed anchor studs shall conform to ASTM A108 (60 ksi). 9. Anchor rods and unfinished rods shall conform to ASTM F1554. Grade 36.
- 10. Bolted connections are to be of high-strength ASTM A325-N bolts, unless noted otherwise. A minimum of two bolts is required
- for all beam connections. Minimum required connection capacity is 12 kips LRFD factored load unless noted otherwise. 11. High-strength bolts shall conform to the provisions of the "Specification for Structural Joints Using High-Strength Bolts", latest edition, as approved by the Research Council on Structural Connections. 12. All structural steel exposed to weather shall be hot-dip galvanized, unless noted otherwise. See specifications for additional galvanizing information. 13. All structural steel shall be shop coated with an approved rust inhibitive primer. Do not prime beams that are to receive

fireproofing.

FABRICATION AND ERECTION

to a constant elevation

shall perform all welding.

scale, oil, paint or other coatings.

MISCELLANEOUS STRUCTURAL STEEL

associated connections, parts, and subparts.

deck support, miscellaneous plates, etc.

details for required reinforcing.>

shown in the structural drawings.

STEEL JOISTS

noted otherwise.

AESS shall conform to SSPC-SP 3 power tool cleaning

and erection of AESS.

HOLES AND OPENINGS

SHOP DRAWINGS

CONSTRUCTION

WELDING

BOLTING

Engineer prior to fabrication.

stamped and signed by the contractor's engineer.

WOOD FRAMING

Douglas Fir

Hem Fir

SprucePine Fir

N.L.G.A.>

Southern Pine

PRODUCTS AND MATERIALS

Association, grade marked by W.W.P.A>.

Studs, blocking, plates (2x and 3x)...

Beams and Stringers (5" and larger)...

Studs, blocking, plates (2x and 3x)..

Post and columns (5" and larger).

Beams and Stringers (5" and larger)...

Studs, blocking, plates (2x and 3x)...

Studs, blocking, plates (2x and 3x)...

Post and columns (5" and larger) ..

Joist and rafters (2x and 3x)..

Beams and Stringers (5" and larger).....

Joist and rafters (2x and 3x)...

Joist and rafters (2x and 3x).. Post and columns (5" and larger).

Post and columns (5" and larger).

Joist and rafters (2x and 3x)..

1. Reinforcing steel shall conform to ASTM A615, Grade 60. Reinforcing to be welded or field bent shall be ASTM A706, Grade

4. Welded wire reinforcement (WWR) shall conform to ASTM A1064, Fy=65 ksi. WWR must lap one full mesh plus 2" at side and end laps, but not less than 6" and shall be wired together. WWR shall be placed in the center of slabs-on-grade or in the 5. Studrail shear reinforcing shall be made of Low Carbon Steel, C1015 in accordance with ASTM A1044, ASTM A36, and ASTM A29 with a minimum yield of 50,000 psi and a minimum tensile strength of 60,000 psi and a maximum 20% elongation in 2" as manufactured by Decon or Suncoast. The complete and finished studrail shall be ICBO evaluated and all welding must take

1. Detail reinforcing elements in accordance with the latest editions of the ACI Detailing Manual and ACI Building Code

1. <All bars in concrete shall be lapped a minimum of 36 bar diameters (2'-0" min.) at all splices.> <OR> <All bars in concrete shall be lapped in accordance with the "Concrete Reinforcing Tension Lap Splice Length (Class B)" schedule terminate with standard hooks at ends of slabs, construction joints, beams, walls, and foundations unless noted otherwise.

1. Provide 2- #5 bars (1 each face) with 2'-0" projection around all openings greater than 10" in any dimension in concrete

2. Dowels for walls and columns shall be the same size and spacing as the wall/column reinforcing, unless noted otherwise. 3. Corner bars shall be provided at each mat of horizontal wall reinforcing and shall match horizontal bar size and spacing. 4. All stirrups shall have a minimum of 2- #4 horizontal reinforcing bars provided as spacers when no other horizontal

POST-INSTALLED ANCHORS AND REBAR

1. Mechanical and adhesive anchors in concrete and masonry shall be as specified by the Structural Engineer.

- 1. Shop drawings for all structural steel indicated on the structural drawings shall be submitted for review to the Structural
- 2. Connections shall be as shown in schedules and sections in the drawings. Any changes to the connections proposed by the contractor shall be submitted with the structural steel shop drawings. This connection submittal shall include calculations

1. All fabrication and erection shall conform to the latest edition of the AISC Manual of Steel Construction. 2. All members are to be erected with natural mill camber or induced camber up, unless noted otherwise on the plans.

- 3. <For composite steel beam floors only>. Screed concrete topping to a constant thickness over the beams. Do not screed
- 1. No holes other than those specifically detailed shall be allowed through structural steel members. No cutting or burning of structural steel shall be permitted without written consent from the Architect/Engineer. 1. A Certified Welder approved by the authority having jurisdiction in accordance with AWS, Structural Welding Code D1.1,
- 1. All high-strength bolts in bearing type connections shall be snug tight. The snug tight condition is defined as the tightness that exists when all plies in a joint are in firm contact. A few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench may attain this. All high-strength bolts shown on the drawings as slip critical or subject to tension loads shall be tightened to a bolt tension not less than that given in Table 8.1 for the RCSC Specification for Structural Joints using High-Strength Bolts. Tightening shall be done by the turn-of-nut method, by a direct tension indicator, or by properly calibrated wrenches. Provide hardened washers under the nut or bolt head, whichever is the element turned in
- tightening. Bolts not indicated as slip critical shall not be pre-tensioned. 2. For slip-critical bolted assemblies the assembly surface, including those adjacent to the washer, shall be free of mill
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) 1. Structural steel noted as AESS on the structural drawings shall conform to project specifications for detailing, fabrication, 2. All AESS shall be free of mill marks, have welds ground smooth, and piece marks covered. The surface preparation of
- 3. All exposed field welds shall be uniform and smooth with any field welding aids removed.
- 1. Miscellaneous structural steel includes any steel that is not specifically included in the framing of the building superstructure. Superstructure steel may include beams, columns, trusses, girders, joists, braces, frames, and any
- 2. The structural steel supplier shall supply all necessary steel items, whether indicated on the drawings or not, that fulfill the structural design and architectural design intent for the structure. These items may include edge angles, closure angles,
- 3. For SOMD projects only: < Openings in roof or floor decks with concrete may be as shown on structural, architectural, or MEP drawings. If openings are not dimensioned on structural plans, refer to architectural or MEP drawings. Unless noted otherwise, openings in decks 24"x24" or less shall be reinforced with 1- #5 in concrete above flutes on all four sides of opening. Reinforcement shall extend 2'-0" minimum beyond edge of opening or have a standard hook. All openings shall have 2'-0" minimum clear between them. For any opening that does not meet this requirement, refer to plans and
- 4. Openings in metal roof deck without concrete may be as shown on structural, architectural, or MEP drawings. If openings are not dimensioned on structural plans, refer to architectural or MEP drawings. Openings in deck shall be reinforced as
- 1. Steel joists shall be designed, fabricated, and erected in accordance with Steel Joist Institute (SJI) Specification. Where steel joists bear on structural steel framing the joist nearest each column on each side of the beam shall be bolted to the beam. Joist bridging shall conform to SJI specifications unless otherwise shown on plans. Joist supplier shall verify that the metal deck, joists, and joist girders meet any size, spacing, support, and/or bridging restrictions imposed by Underwriters Laboratories designated floor or roof systems listed in the architectural drawings. All welds shall be by joist supplier unless
- Joist Supplier shall submit calculations for all non-uniformly loaded joists. 3. Install all required bridging and miscellaneous steel prior to installing deck.

- ...No. 2 (Fb =900 psi, E =1,600 ksi) ...No. 2 (Fb =900 psi, E =1,600 ksi)No. 1 (Fb =1,200 psi, E = 1,600 ksi) ..No. 1 (Fb = 1,350 psi, E = 1,600 ksi)
-No. 1 (Fb =975 psi, E = 1,300 ksi)
- ...No. 2 (Fb =875 psi, E =1,400 ksi)No. 1 (Fb =850 psi, E = 1,300 ksi)No. 1 (Fb = 900 psi, E = 1,300 ksi)
- ..No. 2 (Fb =1,100 psi, E =1,400 ksi) ...No. 2 (Fb =1,100 psi, E =1,400 ksi)No. 1 (Fb =1,350 psi, E = 1,600 ksi) Beams and Stringers (5" and larger).....No. 1 (Fb = 1,350 psi, E = 1,600 ksi) <Engineer Note: If specifying Southern Pine, change grading to Southern Pine Inspection Bureau: grade marked
- 2. Laminated veneer lumber (LVL) shall be erected in accordance with the manufacturer's recommendations. The manufacturer shall furnish all plates, blocking, bridging, and other related items. LVL's shall have a modulus of elasticity (E) of 1.9x10⁶ and an allowable flexural stress (Fb) of 2600 psi. Any substitutions shall provide equal or better member properties and require
- Architect/Engineer approval. 3. Parallam (PSL) shall be erected in accordance with the manufacturer's recommendations. The manufacturer shall furnish all plates, blocking, bridging, and other related items. PSL's shall have a modulus of elasticity (E) of 2.2x10⁶ and an allowable flexural stress (Fb) of 2900 psi. Any substitutions shall provide equal or better member properties and require Architect/Engineer approval
- 4. Laminated strand lumber (LSL) shall be erected in accordance with the manufacturer's recommendations. The manufacturer shall furnish all plates, blocking, bridging, and other related items. LSL's shall have a modulus of elasticity (E) of 1.3x10⁶ and an allowable flexural stress (Fb) of 1700 psi. Any substitutions shall provide equal or better member properties and require Architect/Engineer approval
- 5. I-joist sizes, series, and structural properties based on TJI by Weyerhaeuser. Erect in accordance with the manufacturer's recommendations. The manufacturer shall furnish all plates, blocking, bridging, and other related items. Any substitutions shall provide equal or better member properties and require Architect/Engineer approval. 6. All wood sheathing shall conform to U.S. product standard PS 1 or PS 2 and shall be identified by a registered stamp of the
- American Plywood Association. 7. All wood sheathing shall be Span Rated, Exposure I per PS 1 or PS 2. All sheets shall be grade marked.
- 8. All wood in contact with concrete or masonry shall be preservative treated. All bolts, nails and connectors in contact with preservative treated wood shall be hot-dipped galvanized or stainless steel unless preservative does not require special
- finishes on connectors. 9. All metal connectors shall be Simpson Strong-Tie connectors. The nails for these connectors shall be joist hanger nails as specified by the Simpson Strong-Tie Company, unless noted otherwise.

CONSTRUCTION

- GENERAL 1. Framing members shall not be notched, dapped, or otherwise cut or reduced in size unless specifically detailed or approved. For engineered lumber, refer to manufacturer's recommendations for allowable hole size and locations. 2. 3- 2x6 shall be provided below all girder trusses, hip trusses, valley trusses, or beams unless noted otherwise. 3. Interior non-bearing partitions resting on slab-on-grade shall be provided with a slip joint at the top or bottom of the wall. ANCHOR BOLTS, NAILS, BOLTS, AND LAG SCREWS 1. Foundation plates or sills shall be bolted to the foundation with not less than 5/8"Ø A307 galvanized steel "L" bolts
- embedded at least 7" into the concrete and spaced not more than 4'-0" OC There shall be a minimum of two bolts per piece with a bolt located within 12" of each end of each piece. Bolts shall be galvanized unless not required by the sill manufacturer and the IBC. 2. Nailing shall be per the International Building Code, unless noted otherwise on the plans. Holes for nails shall be predrilled for nails larger in diameter than 16d or where driving causes splitting.
- 3. All bolt holes in wood shall be 1/16" maximum larger than the bolt size. Washers shall be placed under all nuts and heads of all bolts and lag screws. All holes for lag screws shall first be drilled to the same depth and diameter as the shank. The remainder of the holes occupied by the threaded portion shall have a diameter equal to 75% of the shank diameter. Do not over-install lag screws. SHEATHING
- 1. Roof, floor and wall sheathing nails or other approved fasteners shall be driven so that their head or crown is flush with the surface of sheathing. Place nails @6" OC along panel edges and @12" OC at intermediate framing members unless noted otherwise. 2. Roof Sheathing: Stagger all wood sheathing panel joints. Apply sheets with face grain perpendicular to rafters and joists.
- Use 8d ring-shank nails (0.131" diameter x 2 1/2") with 3/8" edge distance. Use 2x4 flat blocking at interior supported panel edges where indicated "blocked" on drawings. All hips, valleys, and ridges shall have 2x4 slope cut blocking at plywood edges to allow the diaphragm to be continuous. Roof sheathing shall be continuous under overframing. 3. Floor Sheathing: Stagger all wood sheathing panel joints. Apply sheets with face grain perpendicular to trusses and joists.
- Use 8d common nails (0.131" diameter x 2 1/2") with 3/8" edge distance. Use 2x4 flat blocking at interior supported panel edges where indicated "blocked" on drawings. Floor sheathing shall be tongue and groove sheathing, glued and nailed to 4. Wall Sheathing: Sheathing can be applied vertically or horizontally. Provide blocking at every horizontal joint. Use 8d
- common nails (0.131" diameter x 2 1/2") with 3/8" edge distance. **FLOOR JOISTS**
- 1. Coordinate joist locations with plumbing and mechanical penetrations. Provide additional joists as required to maintain maximum joist spacing. Provide double joists under all partitions longer than 10'-0" running parallel to joist.
- BLOCKING 1. Provide solid blocking between joist or rafters at all points of support. Provide approved crossbridging between solid sawn
- floor joist @ 8'-0"OC maximum, and between solid sawn roof rafters @10'-0"OC maximum. 2. Posts and multiple studs at upper levels shall have matching and aligned posts and multiple studs at each level of framing below. Tight fitting, solid blocking shall be provided between levels under all such posts and multiple studs. Area of blocking shall equal area of post above and below and be aligned vertically. All posts and multiple studs shall be continuous. SPECIAL INSPECTIONS
- 1. The Special Inspector, prior to the placing of coverage, shall inspect all floor, roof and wall sheathing and nailing. See inspection schedule for additional inspections required.

WOOD TRUSSES

- 1. All trusses shall be erected in accordance with manufacturer's specifications. . No live load reductions shall be taken in design of trusses.
- 3. All bridging and blocking shall be per BCSI and must be in place prior to installing sheathing. 4. All roof trusses shall be secured to supporting elements with steel hurricane/seismic anchors.
- 5. Bearing stress shall not exceed 625 psi <405 psi>. Truss manufacturer is responsible for coordinating and verifying adequate bearing area at all supports. 6. Roof and floor trusses shall be fabricated using special metal connector plates and shall conform to the National Design
- Standard for Metal Plate Connected Wood Truss Construction as prepared by the Truss Plate Institute. 7. Minimum member sizes for trusses shall be 2x4 (nominal) unless noted otherwise.
- 8. Metal connection plates shall be at least 20 gage galvanized steel. 9. Truss manufacturer shall provide all connectors, hangers, bearing enhancers, and hurricane anchors required to support and
- anchor trusses. Manufacturer shall design and supply all truss to truss connections. 10. Girder trusses shall be located where shown on structural drawings. A location change may be requested in writing prior to drawing submittal, and is subject to approval of the structural engineer. 11. Design loading for roof trusses shall be as follows:
 - Superimposed Dead Load = 21 psf, 13 psf top chord, 8 psf bottom chord
- Snow Load = 39 psf + drift top chord Live Load = 10 psf, bottom chord, non-concurrent with top chord snow load
- Add 5 psf dead load at over-framed areas Include additional loads shown on plans and details

GLUED LAMINATED WOOD

- All glued laminated beams shall be Douglas Fir, Combination 24F. Core laminations may be Hem-Fir. Use combination 24F-V4 or 24F-V5 for simply supported beams and combinations 24F-V8 or 24F-V10 for cantilevered or continuous beams.
- 2. X beams shall be manufactured by Rosboro and shall be erected in accordance with the manufacturer's recommendations. X beams shall be glu-lam combination 24F-V4 for simply supported beams and 24F-V8 or 24F-V10 for cantilevered or continuous beams
- 3. All laminations shall be 1 1/2" thick and of the width shown on the structural drawings. All laminations shall be parallel to the bottom edge of the beam.
- 4. All glued laminated columns shall be Western Species, 1 DF L3. 5. All glued laminated wood beams shall be cambered as noted on the structural drawings. All members are to be erected with natural mill camber or induced camber up, unless noted otherwise.
- 6. All exterior glued laminated wood shall be manufactured with exterior glue and shall be painted or sealed per architectural drawings or specifications. 7. All fabrication and workmanship shall conform to the requirements of the International Building Code, the American Institute of
- Timber Construction, and the current edition of the Standard Specifications for Structural Glued Laminated Timber of Softwood Species. 8. All work shall be done in the shop of an approved Type I licensed fabricator.

SHOP DRAWINGS

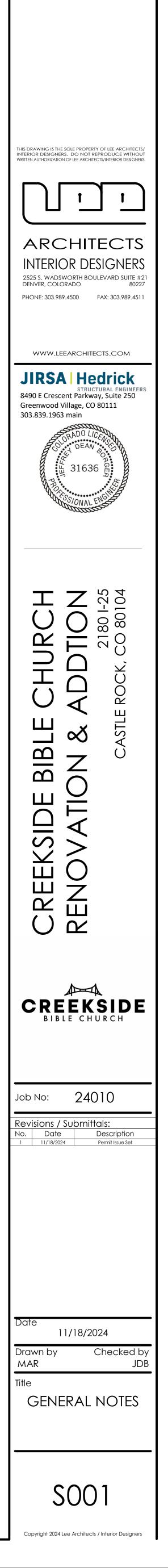
- 1. Truss manufacturer shall design and fabricate trusses in accordance with the dimensions, slopes, spacing, and superimposed loads shown on the drawings. Manufacturer shall submit shop drawings and calculations stamped by a professional engineer for review prior to fabrication.
- Contractor shall submit shop drawings showing Simpson Strong-Tie ATS System or approved equivalent including rod locations, rod sizes, anchorage size, and shrinkage takeup devices used. 3. Contractor shall submit shop drawing of all engineered beam products including LVL, LSL, PSL, and glued laminated beams.
- A certificate of inspection for each glued laminated beam from an approved testing agency shall be submitted to and approved by the local Building Department and by the Engineer prior to erection.

...No. 2 (Fb =850 psi, E =1,300 ksi) ...No. 2 (Fb =850 psi, E =1,300 ksi) ...No. 1 (Fb = 1,050 psi, E = 1,300 ksi)

1. All structural lumber shall be of the following grade, conforming to Standard Grading Rules for <Western Wood Products

..No. 2 (Fb =875 psi, E =1,400 ksi)

< Engineer Note: If specifying Spruce-Pine Fir, change grading to Northern Softwood Lumber Bureau: grade marked





COLD-FORMED STEEL FRAMING

PRODUCTS AND MATERIALS

- requirements of ASTM A653, Grade 33.
- 4. All galvanized 18 gage studs and lighter, all painted track, bridging, end closures, and accessories shall be formed from steel that corresponds to the requirements of ASTM A653, Grade 33.
- by the Architect.

SHOP DRAWINGS

(SSMA) Publication.

1. Metal stud contractor shall submit structural calculations and drawings for all non-load bearing framing members and connections to the Engineer prior to fabrication.

CONSTRUCTION

- 1. All corners shall be framed with a minimum of 3 studs of the same gage as wall studs, unless noted otherwise. 2. Multiple studs shall be secured together with either #10 screws at 18" OC staggered or 1 1/2" of weld at each flange @18" OC.
- for approval. Maximum allowable gap is 1/8".
- as beams. 6. No holes shall be cut in structural studs, joists, or headers without written approval from structural engineer.
- 7. Coordinate joist locations with plumbing and mechanical penetrations. Provide additional joists as required to maintain joist spacing./ 8. Joist webs shall be located directly above stud webs unless noted otherwise.
- are allowed in web stiffeners. 10. Splices in metal studs, joists, and headers will not be permitted.
- 11. Do not bend or cut flanges of studs, joist or headers. Any damaged members shall be replaced. 12. Provide bridging as required by the manufacturer's recommendations.
- Bracing straps shall be flat with no bows or splices. They shall be attached to all intermediate studs with 3- #10 screws.
 Touch up all welds with zinc-rich paint.

 All metallic coated metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A1003, Grade 50, Type H. All metallic coated 16 gage tracks and heavier shall be formed from steel that corresponds to the requirements of ASTM A570 or A611, Grade 33. All metallic coated 18 gage studs and lighter, all painted track, bridging, end closures, and accessories shall be formed from steel that corresponds to the requirements of ASTM A1003, Grade 33, Type H. 3. All galvanized metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A653, Grade 50. All galvanized 16 gage and heavier tracks shall be formed from steel that corresponds to the 5. All painted material and accessories shall be primed with rust inhibitive paint meeting the performance requirements specified 6. Minimum effective section properties of metal studs shall be as shown in the current Steel Stud Manufacturer's Association

3. Load bearing studs shall be square cut and bear on both upper and lower tracks. Wall panels shall be precompressed or oversized track shall be provided (Clark Dietrich Paneltrak or similar). Proposed track shall be submitted to Architect/Engineer

Interior non-bearing partitions resting on slab-on-grade shall be provided with a slip joint at the top or bottom of the wall.
 Holes in studs are not allowed within 10" of the top or bottom of the stud. No punched holes are permitted in members used

9. Web stiffeners shall be constructed of unpunched studs or track, gage to match stud below, unless noted otherwise. No holes

SYMBOL LEGEND				
	SYMBOL			
F#	FOOTING TYPE			
	– DRILLED PIER TYPE (MARK) – TOP OF PIER – PENETRATION INTO BEDROCK			
XX EL(THIS SIDE OF				
• ^{XXX' - XX"} C#	TOP OF SLAB / FLOOR			
or C# - XX"-XX"	CONCRETE COLUMN TYPE			
	INDICATES CAST-IN-PLACE CONCRETE WALL			
2"	- STRESSING END _ DISTANCE FROM BOTTOM OF SLAB TO CGS OF TENDON 3.5"			
XXT	DEAD END - TENDON QUANTITY			
x -	- STUDRAIL TYPE ID			
	STEEL COLUMN TYPE AND STARTING AND TERMINATING LEVEL OF COLUMN. COLUMNS SPLICED 3'-0" ABOVE FINISH FLOOR. SEE DETAILS			
<u>TS_XXX'-XX"</u>	TOP OF STEEL ELEVATION AT SLOPING STEEL MOMENT FRAME CONNECTION			
•	DRAG CONNECTION			
	STEEL BRACED FRAME STARTING AT THIS LEVEL			
	STEEL BRACED FRAME BELOW THIS LEVEL			
\sim \sim	STEEL CHEVRON BRACED FRAME BELOW THIS LEVEL			
2-#5				
	- ADD'L END REINF			
	BEARING WALL			
	BEARING WALL BELOW			
	SHEAR WALL - ATS CALLOUT			
	_ SHEAR WALL TYPE AND EXTENTS. SEE PLANS AND SCHEDULE - HDU CALLOUT ~NUMBER ONLY			
	SHEAR WALL BELOW			
	INDICATES WOOD POST INDICATES WOOD POST BELOW			
FH# 				
	MECHANICAL ROOF TOP UNIT AND WEIGHT			
	-			

ADDL AFF AL T

APA ARCH

ASD

BETW

BLDG

BLKG

BRG

BW CFS/CFMF

CIP CJ

CJP CLR CMU CONC CONST CONT DBA

DBS

DN

DWG

ELEV

FW

EXP

EXT

FDN

FTG FV GALV GC GET GI

GT

HAS HORIZ HSS

HGT

LLBB LLH

MATI

MECH MFR MIN MISC MR

MTL (N) ŇÍĆ NTS OC

ОН

PC PEWRT PJP

PL PLWD PT

QTY R

RD REINF REQD RO SCHED SHT SHTG SIM

SL SLBB SOG SP SPECS STD STFR STL

SYM

THK

TP TS ΤW

T&B TYP UNO VERT

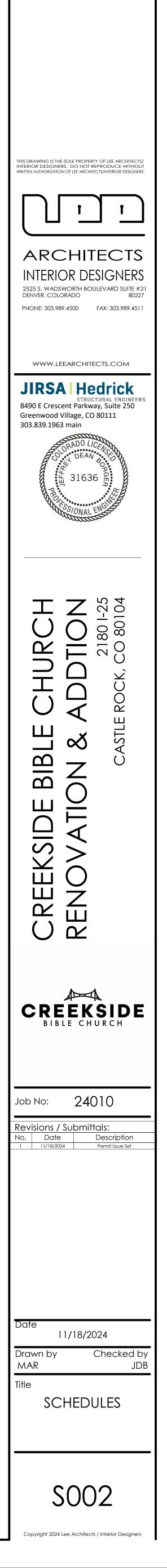
VT

WP WT WWR

opng Paf

(E)

STAN	DARD ABBREVIATIONS
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT / ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
B	BOTTOM
BETW	BETWEEN
BF	BOTTOM OF FOOTING
BL	BRICK LEDGE
BLDG	BUILDING
BLKG	BLOCKING
BRG	BEARING
BW	BOTTOM OF WALL
CFS/CFMF	COLD FORMED STEEL/COLD FORMED METAL FRAMING
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DBS	DOWEL BAR SUBSTITUTE
DL	DEAD LOAD
DN	DOWN
DT	DRAG TRUSS
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR EXISTING
(E) FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GET	GABLE END TRUSS
GL	GLULAM BEAM OR COLUMN
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HGT	HEIGHT
HT	HIP TRUSS
IBC	INTERNATIONAL BUILDING CODE
IF	INSIDE FACE
JT	JOINT
k	KIPS
LL	LIVE LOAD
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	
MISC	MISCELLANEOUS
MR	MILD REINFORCING
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON-CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PEWRT	PRE-ENGINEERED WOOD ROOF TRUSS
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLWD	PLYWOOD
PT	POST TENSION
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
RO	ROUGH OPENING
SCHED	SCHEDULE
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	STONE LEDGE
SLBB	SHORT LEGS BACK-TO-BACK
SOG	SLAB-ON-GRADE
SP	SPACE(S)
SPECS	SPECIFICATIONS
STD	STANDARD
STFR	STIFFENER
STL	STRUCTURAL
SYM	SYMMETRICAL
TC	TOP OF CONCRETE
TF	TOP OF FOOTING
ТНК	THICKNESS
TL	TOP OF LEDGE
TM	TOP OF MASONRY
TP	TOP OF PLATE
TS	TOP OF STEEL
TW	TOP OF WALL
T&B	TOP AND BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VT	VALLEY TRUSS
W/	WITH
WD	WOOD
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT
#	POUNDS



RE VERIFI Pre-fabricated cold-formed steel structural element a. size, spacing b. connections and welds Site built assemblies a. grade, size, spacing b. connections and welds c. blocking lateral system a. member size at panel edges b. diaphragm and shearwall fastener diar c. diaphragm and shearwall fastener spa

CATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE			
nents and assemblies.							
	-	Х	-	Sec. 1704.5			
	-	Х					
	-	Х		Sec. 1704.5			
	-	Х		Sec. 1704.5			
	-	Х					
	-	Х					
ameter and length	-	Х		Sec. 1704.13.3			
pacing	-	Х					

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
Inspect reinforcment, including prestressing tendons, and verify placement.	-	Х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
Reinforcing bar welding:	-	-	AWS D1.4 ACI 318: 26.6.4	-
a. Verify weldability of reinforcing bars other than ASTM A706.	-	Х	AWS D1.4 ACI 318: 26.6.4	-
b. Inspect single-pass fillet welds, maximum 5/16"; and	-	Х	AWS D1.4 ACI 318: 26.6.4	-
c. Inspect all other welds.	Х	-	AWS D1.4 ACI 318: 26.6.4	-
Inspect anchors cast in concrete.	-	Х	ACI 318: 17.8.2	-
Inspect anchors post-installed in hardened concrete members.	-	-		-
a. Adhesive anchors installed in horizontally or upwardly inclined orientatations to resist sustained tension loads.	Х	-	ACI 318: 17.8.2.4	-
b. Mechanical anchors and adhesive anchors not defined in 4.a.	-	Х	ACI 318: 17.8.2	-
Verifying use of required design mix.	-	Х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2,
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Х	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
Inspect concrete and shotcrete placement for proper application techniques.	Х	-	ACI 318: 26.5	-
Verify maintenance of specified curing temperature and techniques.	-	Х	ACI 318: 26.5.3-26.5.5	-
Inspect prestressed concrete for:	-	-		-
a. Application of prestressing forces; and	Х	-	ACI 318: 26.10	-
b. Grouting of bonded prestressing tendons.	X	-	ACI 318: 26.10	-
. Inspect erection of precast concrete members.	-	Х	ACI 318: Ch. 26.9	-
 For precast concrete diaphragm connections for reinforcement at joints classified as moderate or high deformability elements (MDE HDE) in structures assigned to Seismic Design Category C,D,E or F, inspect such connections and reinforcement in the field for : a. Installation of the embedded parts 	v	_	ACI 318: Ch. 26.13.1.3 ACI 550.5	
 b. Completion of the continuity of reinforcement across joints. c. Completion of connections in the field 	X X X	-		
. Inspect installation tolerances of precast concrete diaphragm connctions for compliance with ACI 550.5	-	Х	ACI 318: 26.13.1.3	=
Verify 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.	-	X	ACI 318: 26.11.2	-
. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	Х	ACI 318: 26.11.1.2 (b)	-

1.	Verify materials below
2.	Verify excavations a
3.	Perform classification
4.	During fill placemer lift thicknesses duri
5.	Prior to placement of

VERIFICATION AND INSPECTION	PERIODIC
1. Pre-fabricated wood structural elements and assemblies.	X
a. grade, size, spacing	X
b. connections	Х
c. restraint/bracing of depths ≥60 inches or lengths ≥60 feet	Х
2. Site built assemblies.	
a. grade, size, spacing	X
b. connections	X
c. blocking	X
3. Wood diaphragms and shear walls.	
a. panel grade and thickness	X
b. member size at panel edges	X
c. fastener diameter and length	Х
d. fastener spacing	X
e. check for overdrilling or overshooting of fasteners	X
4. Holdown hardware at shearwalls	
a. type, location	X
b. connections	X
c. post size and type	X
5. Steel straps at diaphragms	
a. type, length, location	X
b. connections	Х
c. blocking	X

STATEMENT OF SPECIAL INSPECTIONS - 2021 IBC

SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY A THIRD PARTY AGENCY EMPLOYED BY THE OWNER. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED AS REQUIRED IN CHAPTER 17 OF THE IBC AND BY THE ENGINEER OF RECORD. REQUIREMENTS ARE NOTED IN CHARTS PROVIDED ON THE CONSTRUCTION DOCUMENTS, AS WELL AS IN THE SPECIFICATIONS. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

A. ALL SPECIAL INSPECTORS SHALL BE QUALIFIED TO INSPECT MATERIALS BASED ON CERTIFICATION, TRANING OR EXPERIENCE AS REQUIRED, AND MUST MEET SPECIFICATION STANDARDS. SPECIAL INSPECTOR DUTIES:

A. SPECIAL INSPECTOR SHALL REVIEW ALL WORK REQUIRED ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. B. SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE ENGINEER OF RECORD, ARCHITECT, CONTRACTOR, OWNER, AND BUILDING OFFICIAL ON A WEEKLY BASIS OR MORE FREQUENTLY. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, THEY SHALL BE REPORTED TO THE EOR. C. SPECIAL INSPECTOR SHALL KEEP A LOG OF ALL NON-COMPLIANCE ITEMS, INCLUDING THOSE NOTED ON STRUCTURAL OBSERVATION REPORTS.

D. SPECIAL INSPECTOR SHALL REINSPECT ALL NON-COMPLIANCE ITEMS UPON REPAIR BY THE CONTRACTOR TO MEET THE CONSTRUCTION DOCUMENTS OR REPAIR BASED ON ENGINEER OF RECORD DIRECTIVES. E. SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT.

F. SPECIAL INSPECTOR SHALL FURNISH A FINAL LETTER TO THE EOR AT THE COMPLETION OF THE PROJECT STATING THAT ALL INSPECTIONS HAVE BEEN COMPLETED AND ALL DISCREPANCIES HAVE BEEN RESOLVED. CONTRACTOR DUTIES: A. CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. THE STATEMENT SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL

INSPECTION REQUIREMENTS ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. B. CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION A MINIMUM OF 24 HOURS BEFORE SUCH INSPECTION IS REQUIRED.

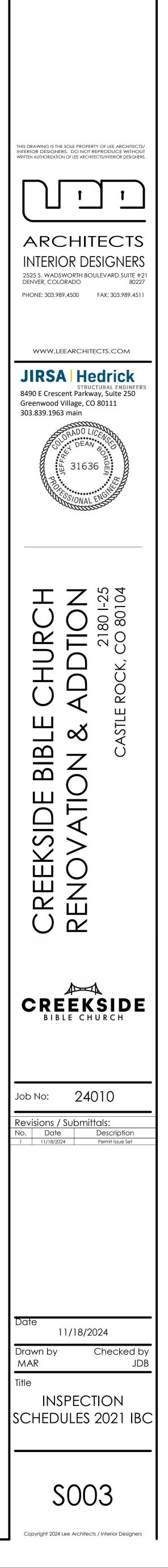
ALL WORK, INCLUDING REPAIRS, SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR. CONTRACTOR SHALL PROVIDE CURRENT DRAWINGS AND SPECIFICATIONS TO THE SPECIAL INSPECTOR. THIS INCLUDES ALL STRUCTURAL OBSERVATIONS, REPORTS, AND REPAIR DOCUMENTATION. ALL REPAIRS SHALL BE INSPECTED AT THE COST OF THE CONTRACTOR. NON-COMPLIANCE ITEMS SHALL BE RESOLVED IN A TIMELY MANNER.

REQUIRED THIRD PARTY SPECIAL INSPECTIONS AND TESTS OF

OF SOILS - 2021 IBC TABLE 1705.6

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
elow shallow foundations are adequate to achieve the design bearing capacity.	-	Х
are extended to proper depth and have reached proper material.	-	Х
tion and testing of compacted fill materials.	-	Х
ent, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and ring placement and compaction of compacted fill.	Х	-
t of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	Х

REQUIRED THIRD PARTY VERIFICATION AND INSPECTIONS FOR WOOD CONSTRUCTION - 2021 IBC

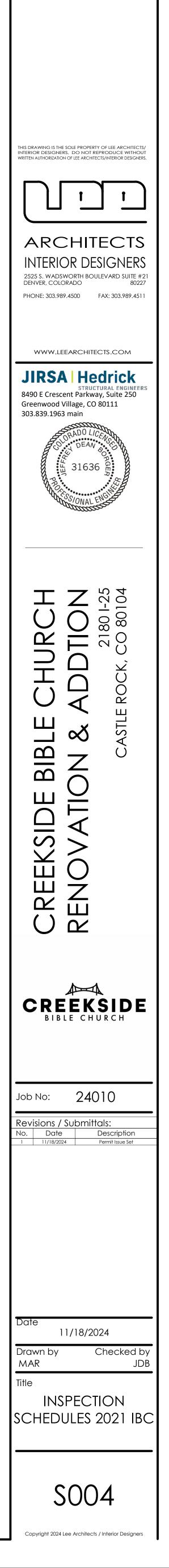


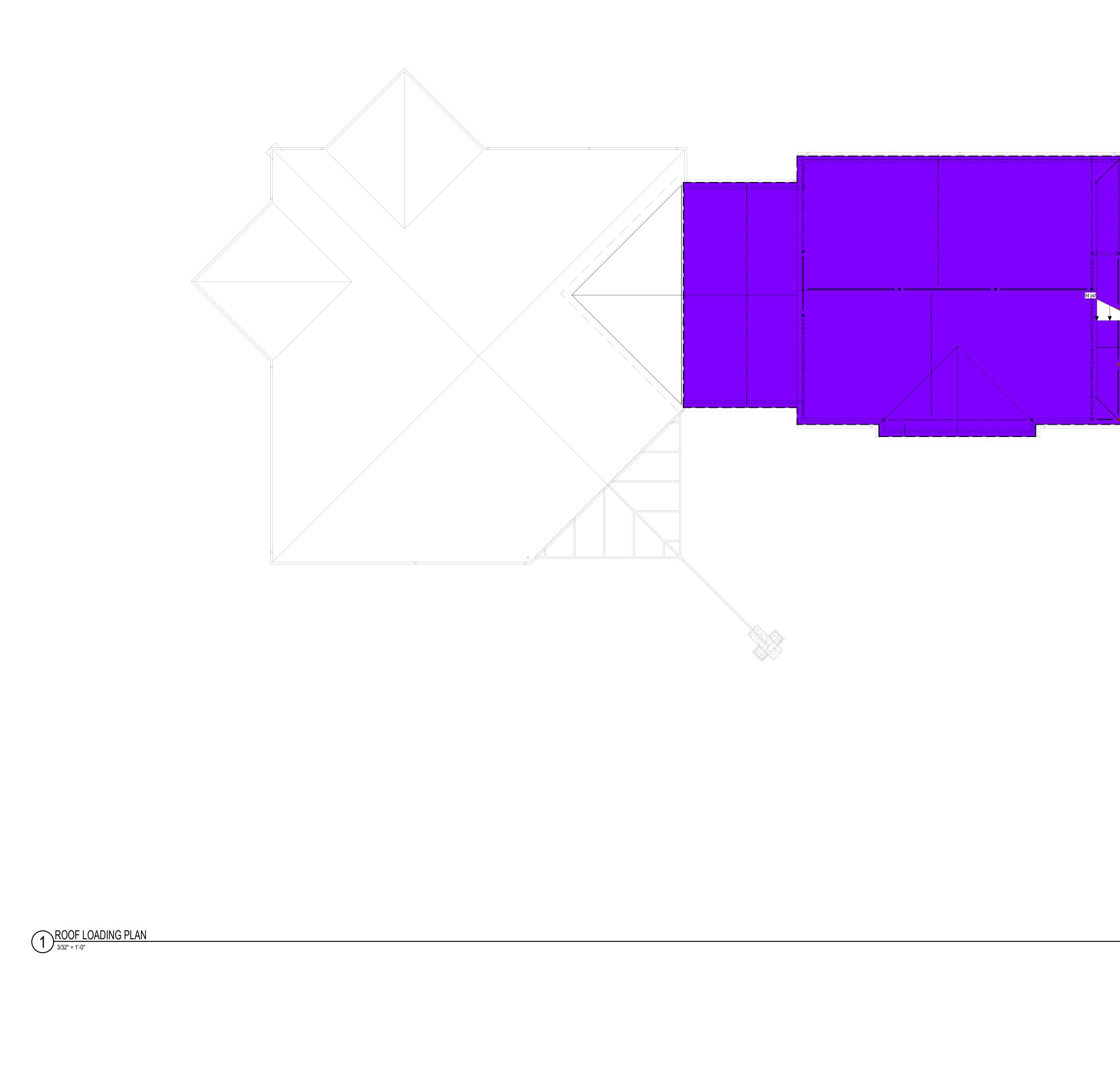


Wel	der qualification recor
WP	S available
Mar	nufacturer certification
Mat	erial identification (typ
Wel	der identification syste
Fit-ı	up of groove welds (in
Fit-ı	up of CJP groove weld
Cor	figuration and finish c
Fit-ı	up of fillet welds
Che	eck welding equipmen
	trol and handling of w
No	welding over cracked
	ironmental conditions
WP	S followed
Wel	ding techniques
Plac	cement and installatio
Wel	ds cleaned
Size	e, length and location
	ds meet visual accept
	strikes
	ea [6]
	d access holes in roll
	king removed and we
	pair activities
	cument acceptance or
No	prohibited welds have
Mar	nufacturer's certificatio
Fas	teners marked in acco
Cor	rect fasteners selecte
Cor	rect bolting procedure
	necting elements, inc
Pre	-installation verificatio
	tected storage provide aponents
Fas	tener assemblies plac
Joir	nt brought to the snug-
Fas	tener component not
	teners are pretension
	tument acceptance or
NO 1. 2.	TES: QUALITY CONTRO QUALITY ASSURAN
∠. 3.	(EOR). OBSERVE(O): THE
3. 4.	PERFORM (P): THE
ч. 5.	THE FABRICATOR WHEN WELDING O

REQUIRED THIRD PARTY VERIFICA FOR STEEL CONSTRUCTI			
TASK	QUALITY CONTROL ^[1]	QUALITY ASSURANCE ^[2]	REFERENCED STANDARD
INSPECTION TASKS PRIOR TO) WELDING		
rds and continuity records	P ^[3]	O ^[4]	AISC 360 TABLE N5.4-1
	Р	Р	AISC 360 TABLE N5.4-1
s for welding consumables available	Р	Р	AISC 360 TABLE N5.4-1
pe/grade)	0	0	AISC 360 TABLE N5.4-1
em ^[5]	0	0	AISC 360 TABLE N5.4-1
ncluding joint geometry)	0	0	AISC 360 TABLE N5.4-1
Is of HSS T-, Y- and K-joints without backing (including joint geometry)	Р	0	AISC 360 TABLE N5.4-1
of access holes	0	0	AISC 360 TABLE N5.4-1
	0	0	AISC 360 TABLE N5.4-1
t	0	-	AISC 360 TABLE N5.4-1
INSPECTION TASKS DURING	WELDING		
elding consumables	0	O ^[4]	AISC 360 TABLE N5.4-2
ack welds	0	0	AISC 360 TABLE N5.4-2
	0	0	AISC 360 TABLE N5.4-2
	0	0	AISC 360 TABLE N5.4-2
	0	0	AISC 360 TABLE N5.4-2
		Р	AISC 360 TABLE N5.4-2
INSPECTION TASKS AFTER		O ^[4]	AISC 360 TABLE N5.4-3
of welds	P ^[3]	P	AISC 360 TABLE N5.4-3
ance criteria	P	P	AISC 360 TABLE N5.4-3
	P	P	AISC 360 TABLE N5.4-3
	P	P	AISC 360 TABLE N5.4-3
ed heavy shapes and built-up heavy shapes [7]	P	P	AISC 360 TABLE N5.4-3
d tabs removed (if required)	P	P	AISC 360 TABLE N5.4-3
	P	P	AISC 360 TABLE N5.4-3
rejection of welded joint or member	P	P	AISC 360 TABLE N5.4-3
e been added without the approval of the EOR	0	0	AISC 360 TABLE N5.4-3
INSPECTION TASKS PRIOR TO			
ns available for fastener materials	0	Р	AISC 360 TABLE N5.6-1
ordance with ASTM requirements	0	O ^[4]	AISC 360 TABLE N5.6-1
for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	0	0	AISC 360 TABLE N5.6-1
selected for joint detail	0	0	AISC 360 TABLE N5.6-1
luding the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	0	0	AISC 360 TABLE N5.6-1
n testing by installation personnel observed and documented for fastener assemblies and methods used	P ^[3]	0	AISC 360 TABLE N5.6-1
ed for bolts, nuts, washers and other fastener	0	0	AISC 360 TABLE N5.6-1
INSPECTION TASKS DURING	BOLTING		
ed in all holes and washers and nuts are positioned as required			
	0	O ^[4]	AISC 360 TABLE N5.6-2
light condition prior to the pretensioning operation	0	0	AISC 360 TABLE N5.6-2
turned by the wrench prevented from rotating	0	0	AISC 360 TABLE N5.6-2
ed in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	0	0	AISC 360 TABLE N5.6-2
INSPECTION TASKS AFTER	BOLTING		
rejection of bolted connections	P ^[3]	Р	AISC 360 TABLE N5.6-3

THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED TO BE DELAYED PENDING THESE INSPECTIONS. THESE TALKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER. TOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE. NG OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD. ED HEAVY SHAPES (PER AISC 360 SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (PER AISC 360 SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLES FOR CRACKS.

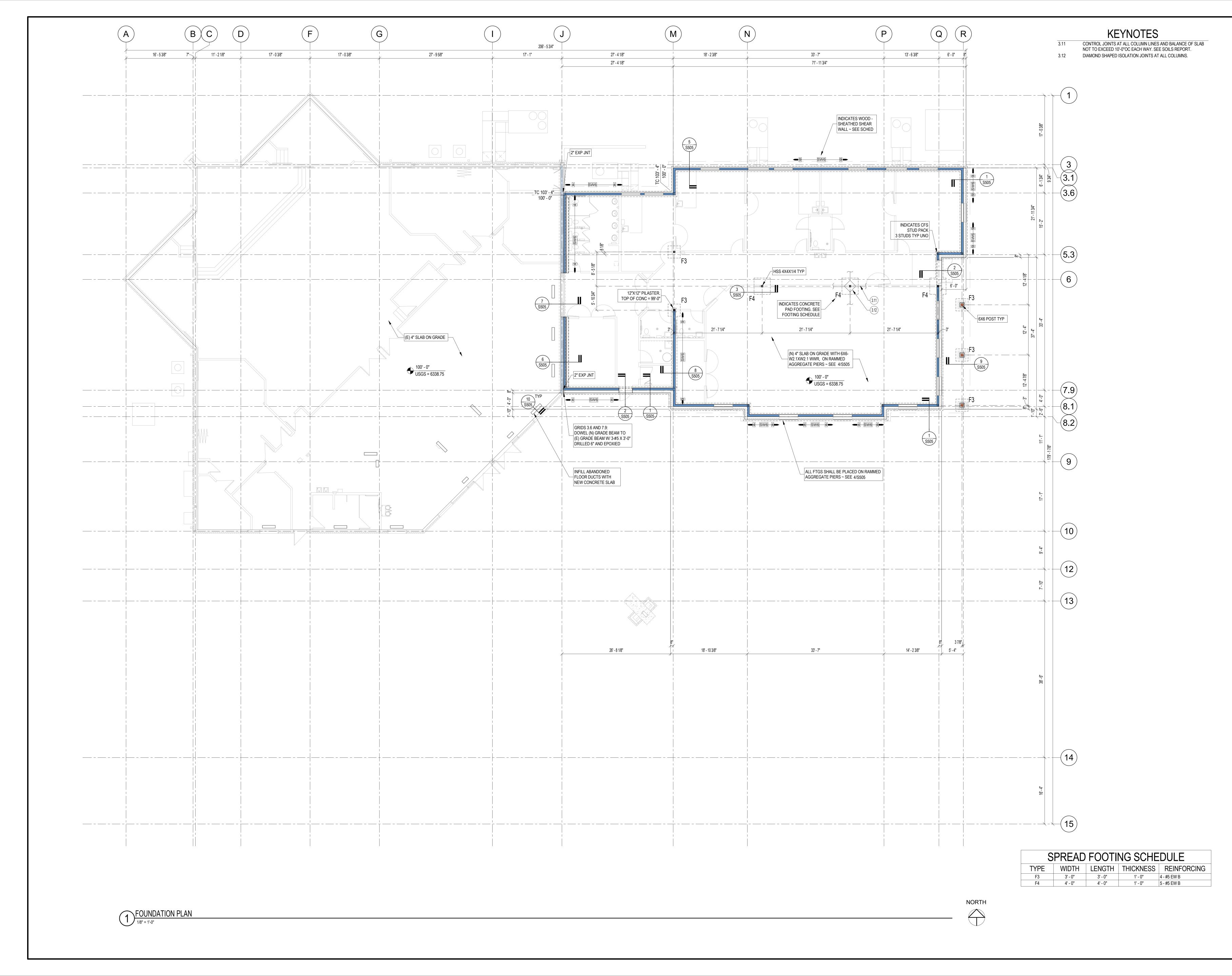


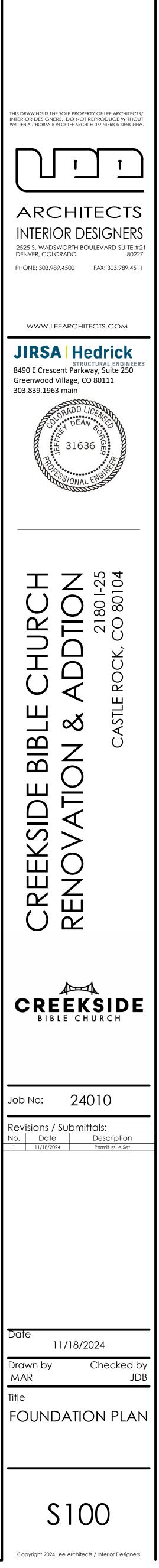


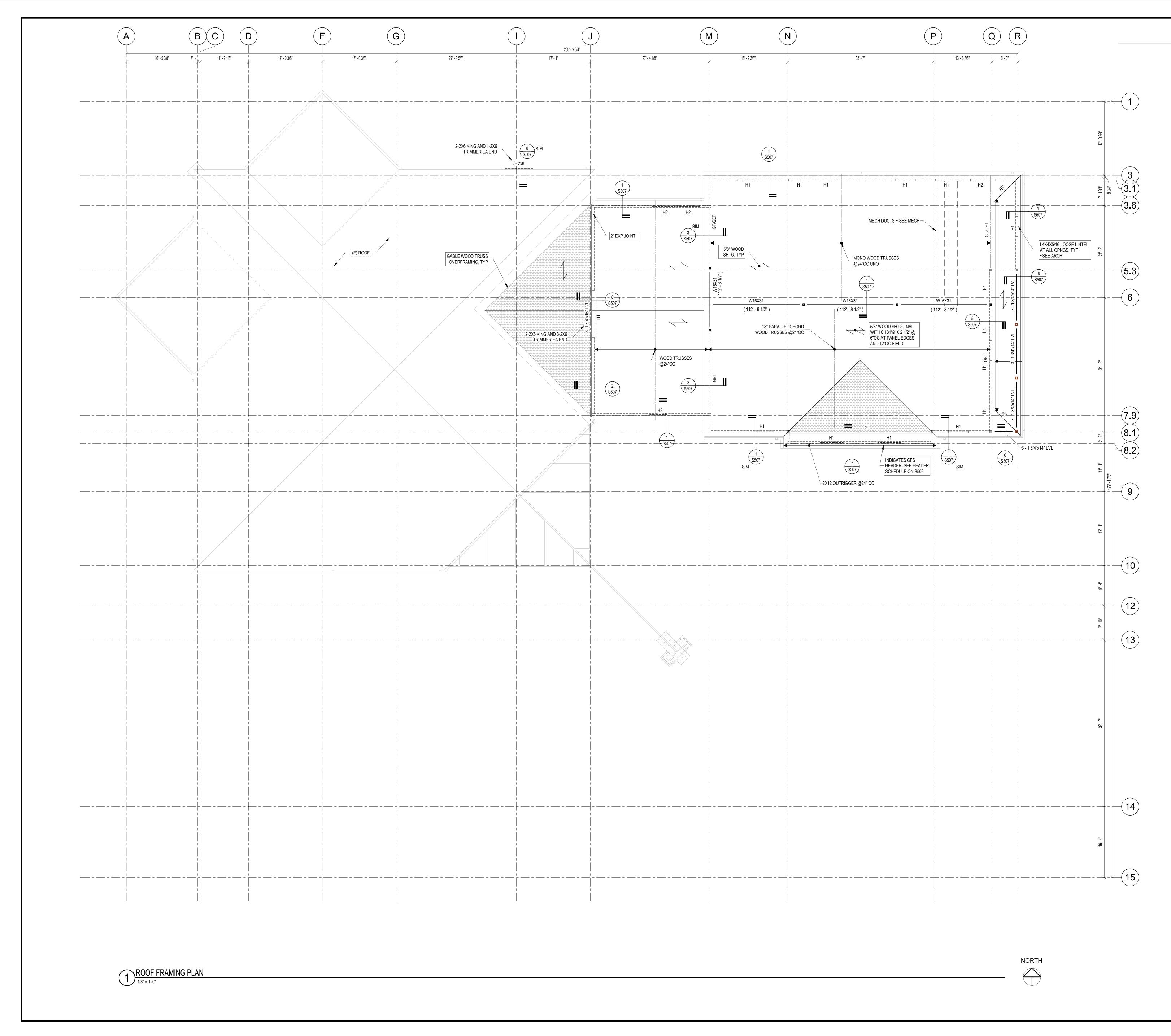
LOADING DIAGRAM SCHEDULE								
PATTERN	AREA	TOTAL DEAD LOAD	SNOW LOAD	NOTES				
	ROOF	25 psf	39 psf SNOW (non-reducible)	WIND UPLIFT OF 15 PSF				
 SNOW DRIFT DIA ALL OVERFRAME 								





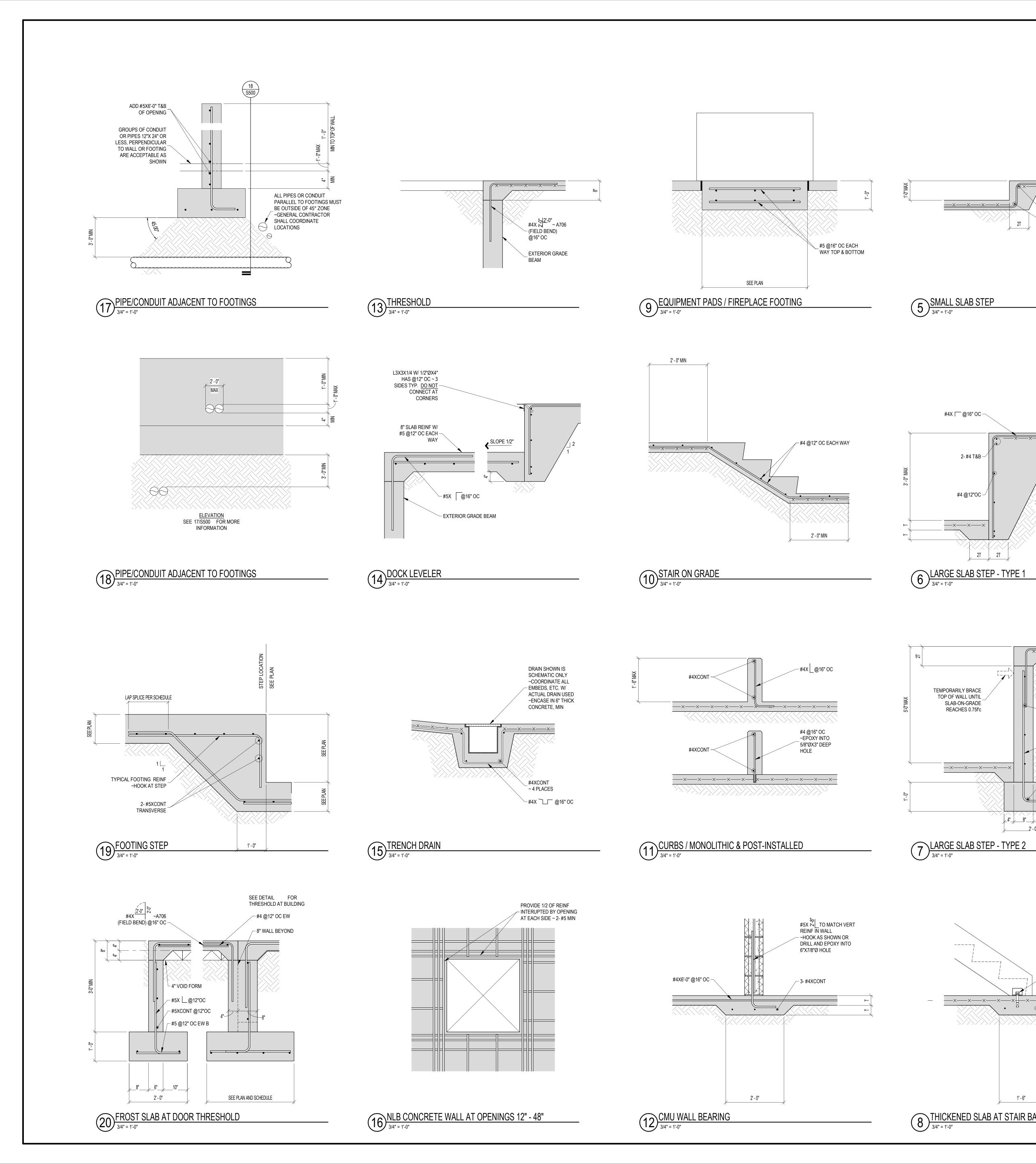


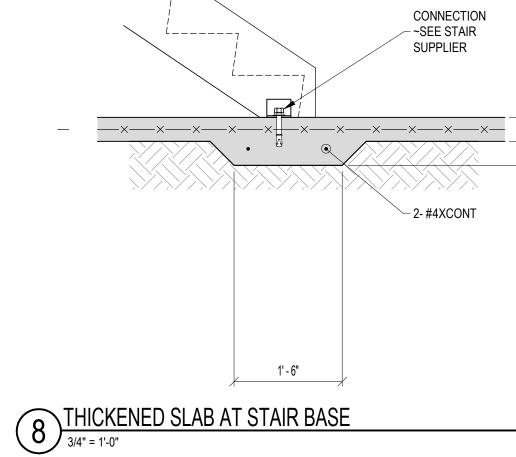


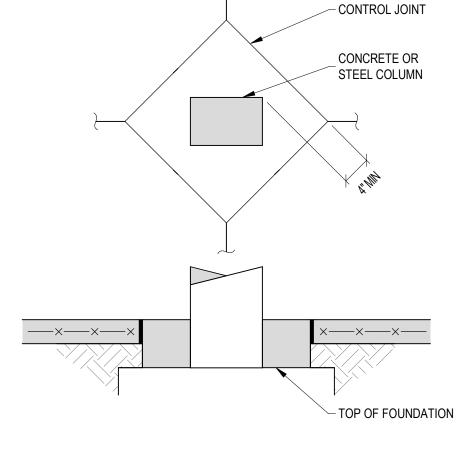


KEYNOTES

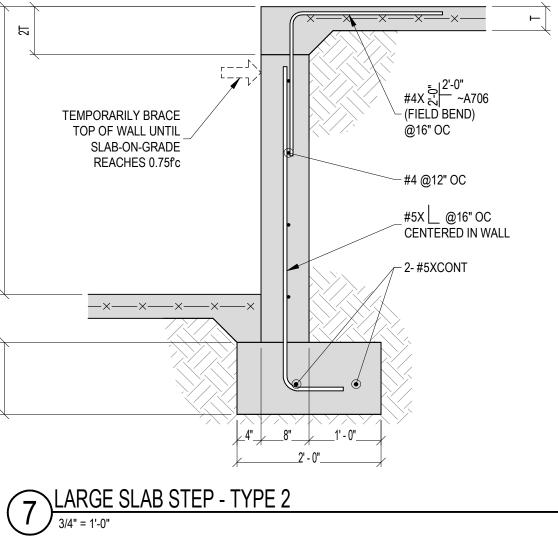




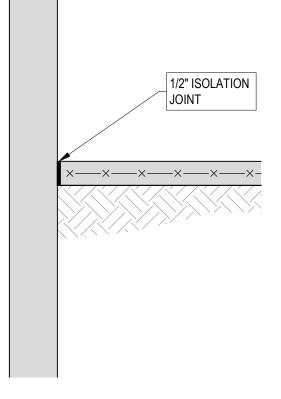




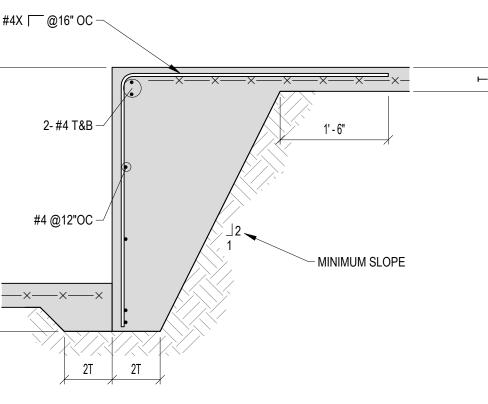
4 DIAMOND BLOCKOUT AROUND COLUMNS

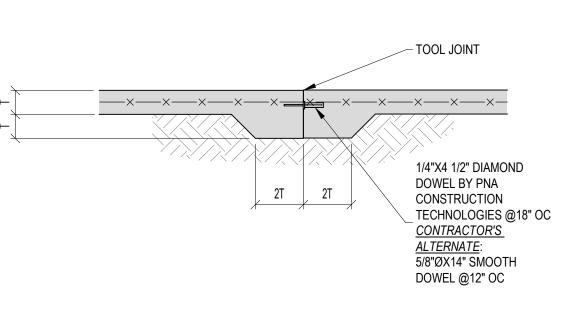


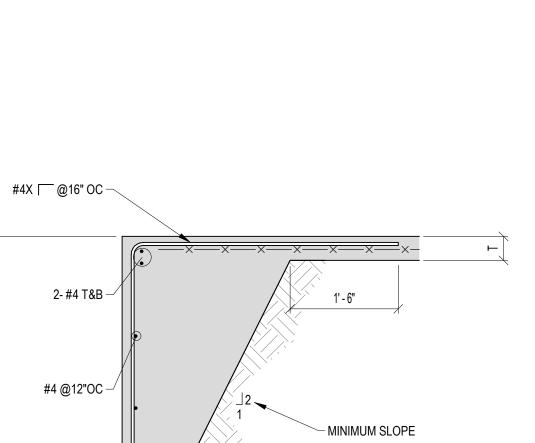




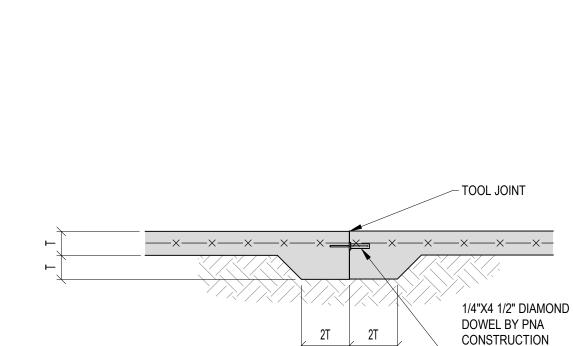


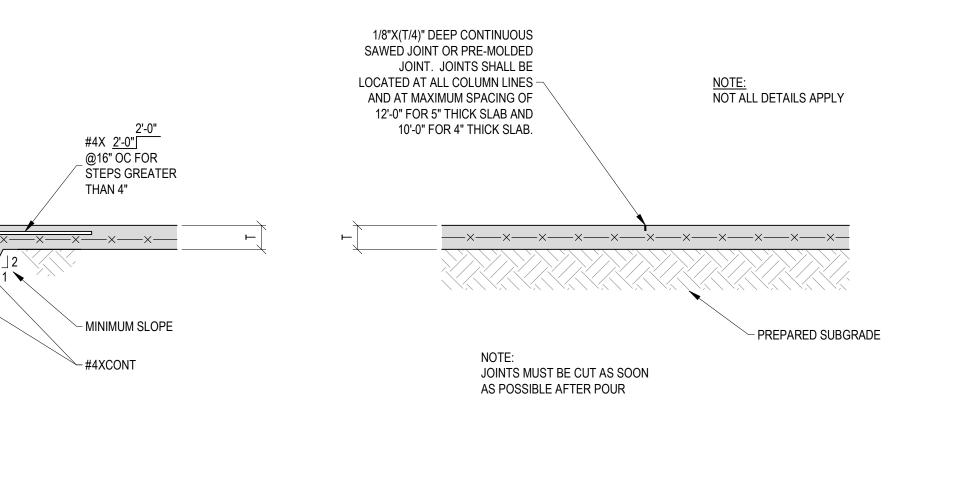




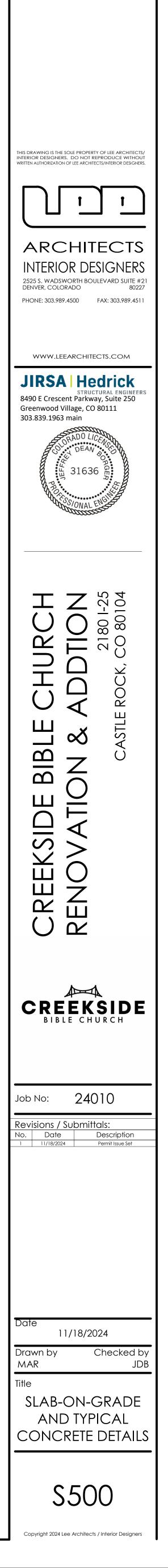


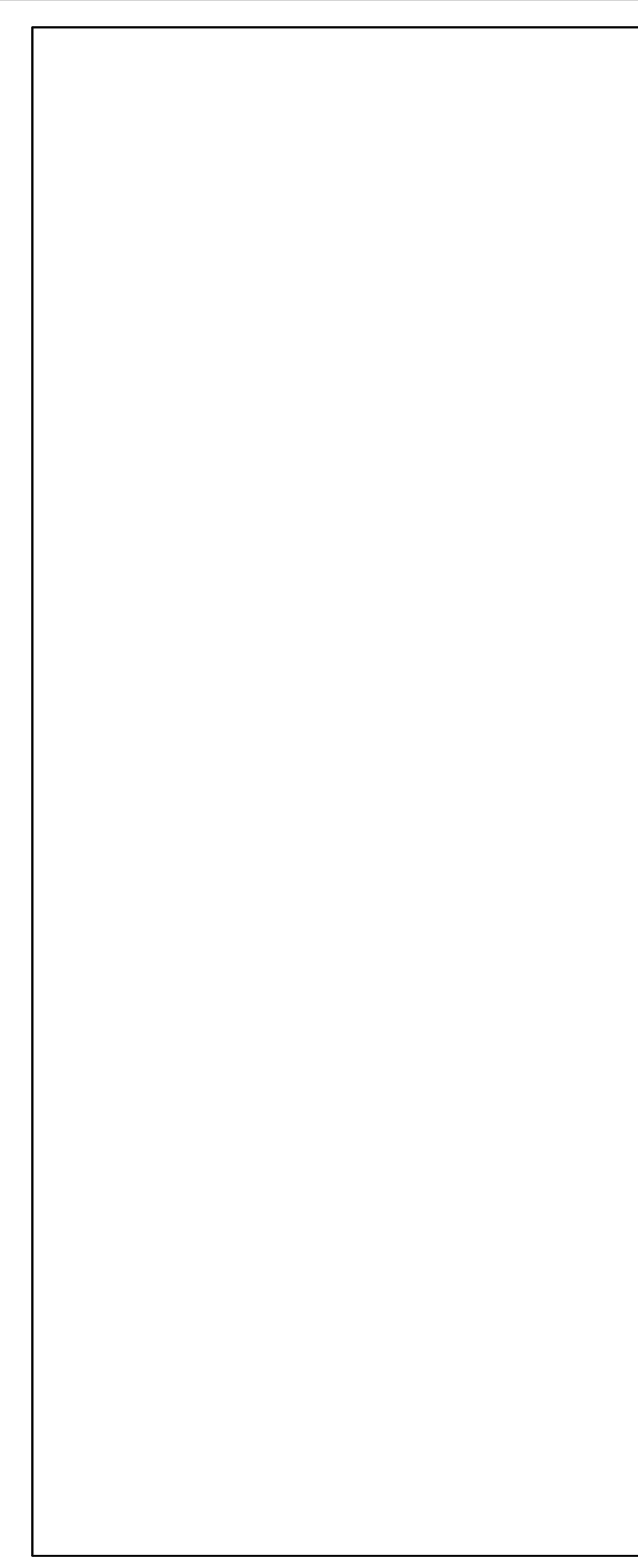
2T





CONTROL JOINT 3/4" = 1'-0"





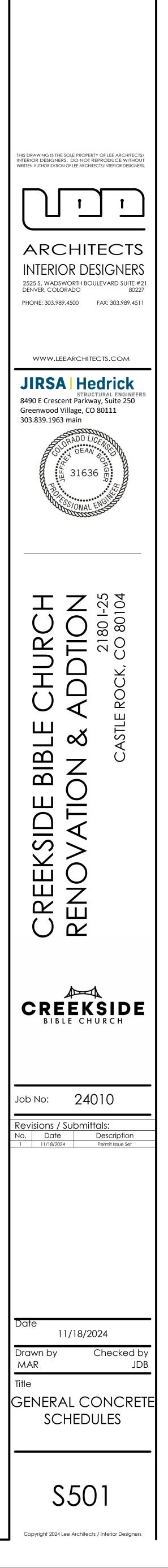
	LASS B) -	STD		f'c=3000 psi				-	
	ℓdh (f'c = 3000psi)		OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		BAR SIZE ENGLISH (METRIC
	6	6	13 17	17 23	13	17 23	13 22	17 29	#3 (10) #4 (13)
	8	10	22	28	22	28	32	42	#5 (16)
	11	12 14	26	34 49	26 43	34 55	43 69	56 90	#6 (19) #7 (22)
	16	16	43	56	54	70	86	112	#8 (25)
	20 23	19 22	53 66	69 85	66 81	86	104 125	135 163	#9 (29) #10 (32)
	27	24	79	102	97	126	146	190	#11 (36)
	ℓdh	STD	(2" COVER)	f'c=4000 psi	· · · · ·	c=4000 psi (1		f'c=4000 psi (BAR SIZE
	(f'c = 4000psi)	LENGTH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ENGLISH (METRIC
	6	6	12	15	12	15	12	16	#3 (10)
	6 8	8	15 19	20 24	15 19	20	19 28	25 36	#4 (13) #5 (16)
	10	12	23	29	23	29	37	48	#6 (19)
	13 15	14 16	33 37	42 49	37 47	48 61	60 74	78 96	#7 (22) #8 (25)
	18	19	46	60	57	75	90	117	#9 (29)
	22 26	22 24	57 68	74 89	70 84	91 109	108 127	140 165	#10 (32) #11 (36)
		STD						f'c=5000 psi (#11(30)
0,11,0	ℓdh (f'c = 5000psi)		OTHER	TOP BARS	OTHER	TOP BARS	OTHER		BAR SIZE ENGLISH (METRIC
tun	6	LENGIH 6	BARS	13	BARS 12	13	BARS	16	#3 (10)
	6	8	14	18	14	18	17	22	#4 (13)
Хор	8 10	10 12	17 20	22 26	17 20	22 26	25 34	33 44	#5 (16) #6 (19)
S	12	14	29	38	33	43	54	70	#7 (22)
CLR COVER	15 18	16 19	33 41	43 54	42 51	54 67	67 81	87 105	#8 (25) #9 (29)
	21	22	51	66	63	82	97	126	#10 (32)
	25	24		79		97		148	#11 (36)
	ℓdh (f'c = 6000psi)	STD HOOK LENGTH	OTHER		OTHER		OTHER	f'c=6000 psi (BAR SIZE
		LENGTH	BARS	TOP BARS	BARS	TOP BARS	BARS		ENGLISH (METRIC
	6	6 8	12	16 17	12	16 17	12	16 21	#3 (10) #4 (13)
	7	10	16	21	16	21	23	30	#5 (16)
COVER FOR PLICED BARS	10	12 14	19 27	25 35	19 30	25 39	31 49	40 64	#6 (19) #7 (22)
	15	16	31	40	38	49	61	79	#8 (25)
	17 21	19 22	38	49 61	47 58	61 75	74 88	96 114	#9 (29) #10 (32)
TYPICAL	24	24	56	73	69	90	104	135	#11 (36)
DETAILS	<i>ℓ</i> dh	STD	· /	f'c=7000 psi		c=7000 psi (1		f'c=7000 psi (BAR SIZE
	(f'c = 7000psi)	LENGTH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ENGLISH (METRIC
	6	6	12	16	12	16	12 14	16 18	#3 (10)
	7	10	12 14	16 18	12 14	16 18	21	27	#4 (13) #5 (16)
	9	12	17	22	17	22	28	36	#6 (19)
	11 14	14 16	25 28	33 36	28 35	36 46	46 56	60 73	#7 (22) #8 (25)
	16	19	35	46	44	57	68	88	#9 (29)
	19 22	22 24	43 52	56 68	53 64	69 83	82 96	107 125	#10 (32) #11 (36)
	ℓdh	STD		f'c=8000 psi		c=8000 psi (1		f'c=8000 psi (
	(f'c = 8000psi)	HOOK	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	BAR SIZE ENGLISH (METRIC
	6	6	12 12	16	12 12	16	12 12	16	#3 (10)
	6	8 10	12	16 18	12 14	16 18	14	18 26	#4 (13) #5 (16)
	8	10 12	14 16	18 21	14 16	18 21	20 27	26 35	#5 (16) #6 (19)
	10	14	23	30	26	34	43	56	#7 (22) #8 (25)
	13 15	16 19	27	35 43	33	43 53	53 64	69 83	#8 (25) #9 (29)
			00	⁺ 0		1	• •	1	

TABULATED VALUES ARE BASED ON NON-EPOXY COATED GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE. LENGTHS ARE IN INCHES.
 TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-19.

CLEAR SPACING OF BARS MUST BE AT LEAST DOUBLE THE CONCRETE COVER.
 TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

FOR LIGHT WEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.33.
 DEVELOPMENT LENGTH (*l*d) = TENSION LAP SPLICE LENGTH DIVIDED BY 1.3 BUT NOT LESS THAN 12" MINIMUM.

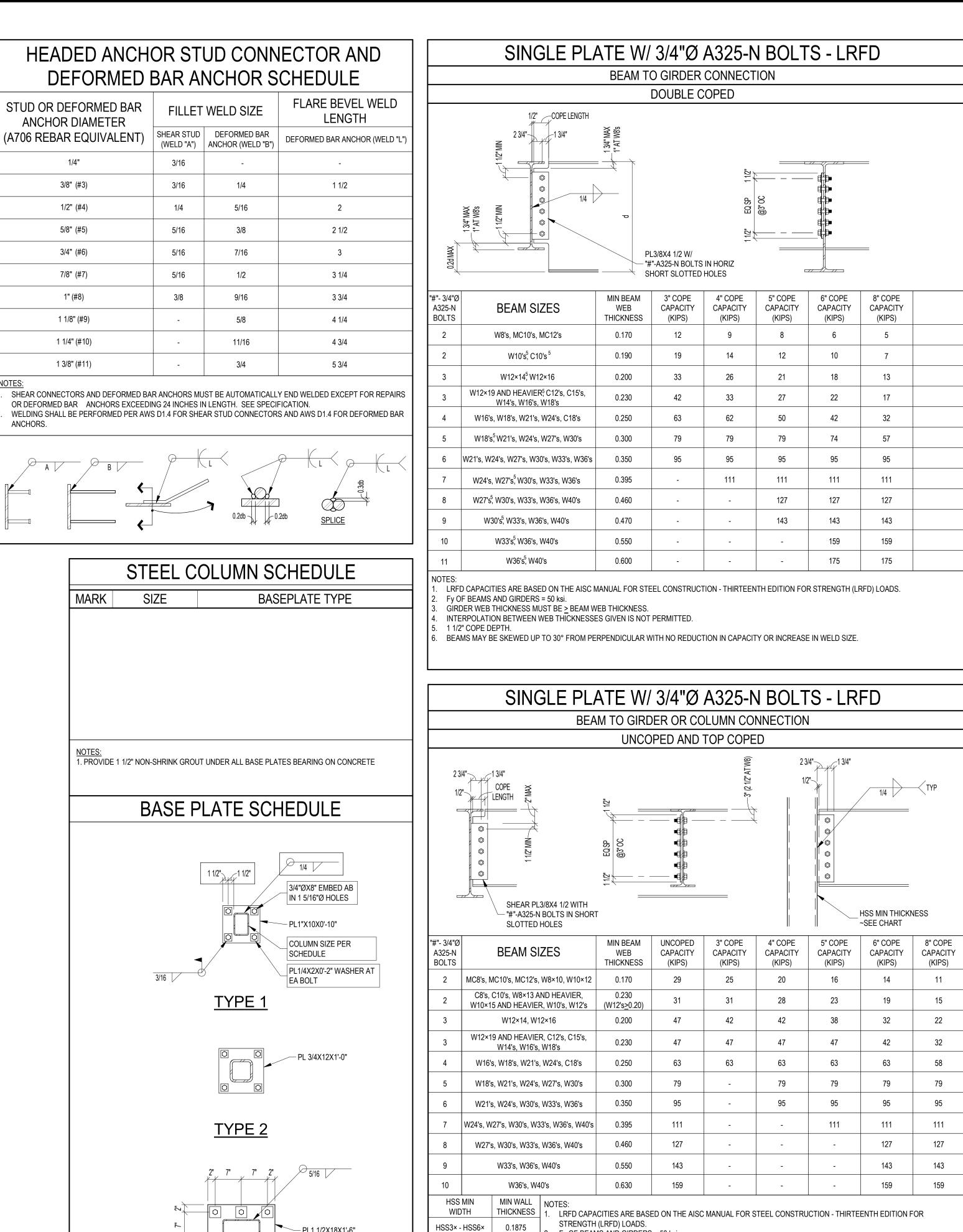
FOR CONDITIONS WITH SIDE COVER NORMAL TO PLANE OF HOOK LESS THAN 2.5" IN COLUMNS OR LESS THAN 6db IN OTHER CONDITIONS, 4dh MUST BE INCREASED BY 1.25.
 SEE CONCRETE COLUMN SCHEDULE FOR COMPRESSION LAP SPLICE LENGTHS.



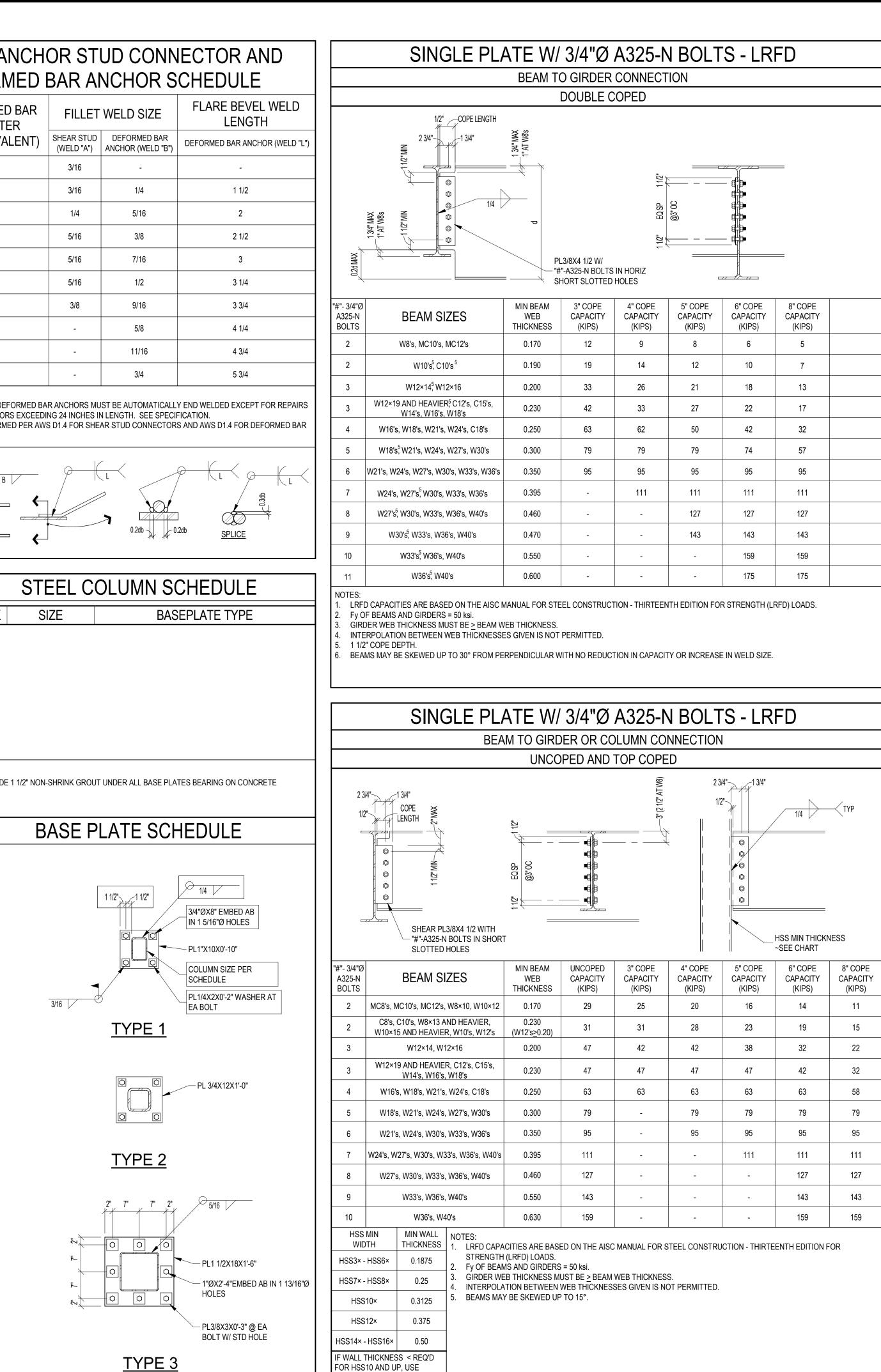


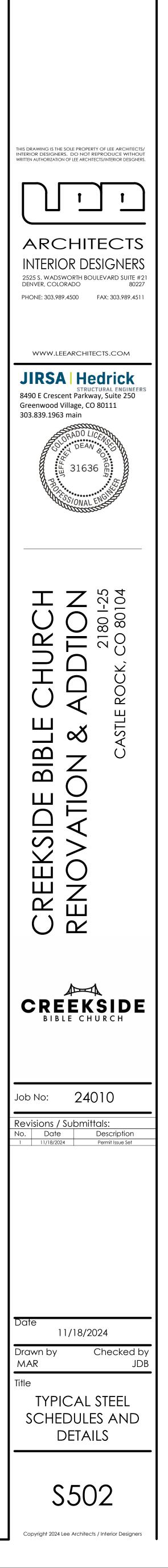
STUD OR DEFORMED BAR ANCHOR DIAMETER	FILLET	WE
(A706 REBAR EQUIVALENT)	SHEAR STUD (WELD "A")	D ANC
1/4"	3/16	
3/8" (#3)	3/16	
1/2" (#4)	1/4	
5/8" (#5)	5/16	
3/4" (#6)	5/16	
7/8" (#7)	5/16	
1" (#8)	3/8	
1 1/8" (#9)	-	
1 1/4" (#10)	-	
1 3/8" (#11)	-	
NOTES:		·

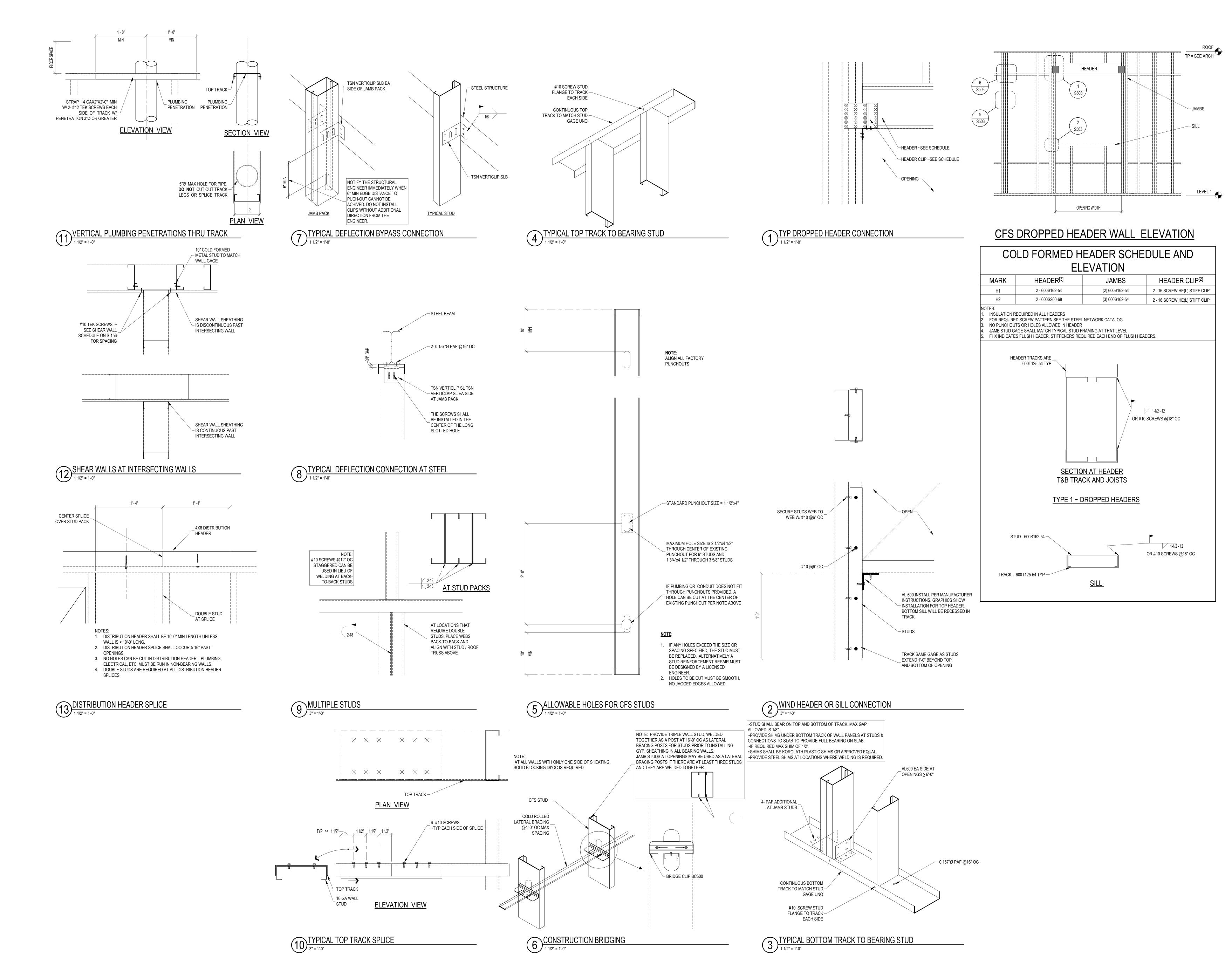
ANCHORS.

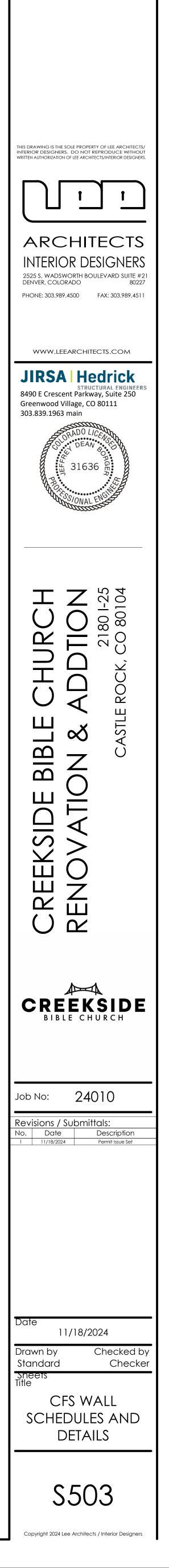


ANGLE CONNECTIONS







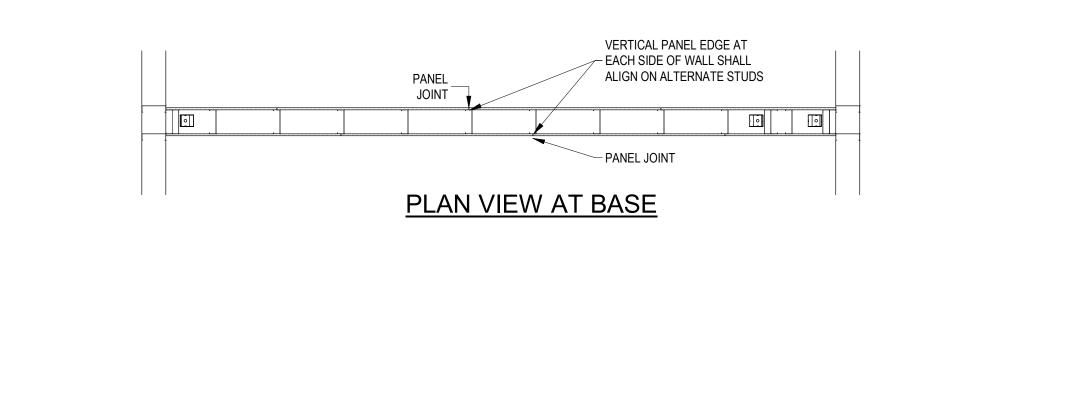


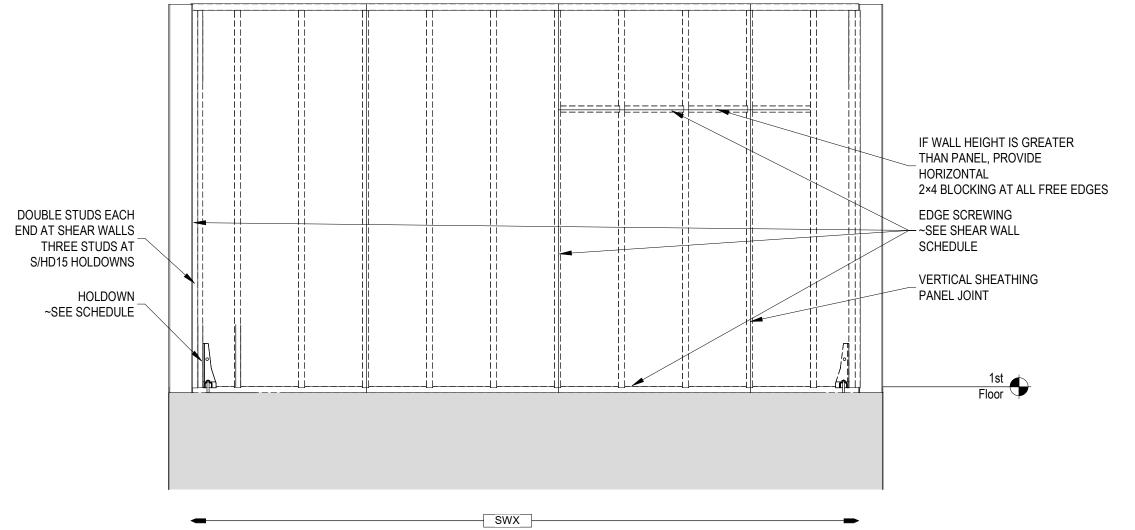


EMBED PLATE ~ _ SEE SCHEDULE

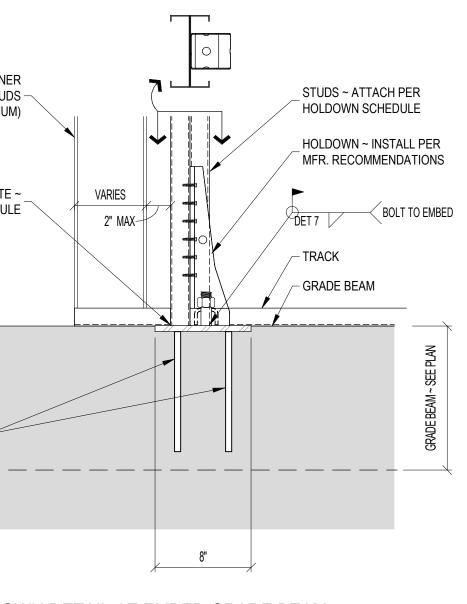
2- #5 DBA WELDED TO PL~SEE EMBED PL -SCHEDULE

TYPICAL CORNER FRAMING (3 STUDS — MINIMUM)



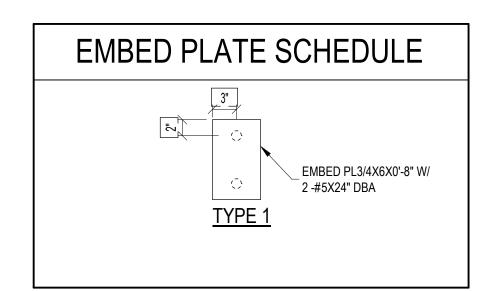


SHEAR WALL ELEVATION - SEGMENTED



HOLDOWN DETAIL AT EMBED GRADE BE	
1 1/2" = 1'-0"	

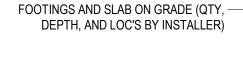
	SH	EAR WAL	L SCHED	ULE						
	SHEATHIN	G ATTACHMEN	IT W/ #8 SCRE	WS ^[3]						
TYPE ^[2]	EDGE SPACING	INTERMEDIA SPACING			SERVICE CAPACITY					
SW6	6" OC	12" OC	0.145"Ø @	024" OC	678 plf					
 PANELS SHAL SCREWS SHA HEAD DIAMET HEAD MUST B A MINIMUM OI DOUBLE STUI 	 SCREWS SHALL BE LONG #8 SELF DRILLING / SELF TAPPING SCREWS SHANK DIAMETER (0.138") MINIMUM 0.3145" HEAD DIAMETER AND BE 1 1/4" LONG. SCREWS SHALL COMPLY WITH SAE J78 AND ASTM C954. SCREW FASTENER HEAD MUST BE FLUSH WITH PANEL SURFACE AND PENETRATE INTO THE COLD FORMED STEEL FRAMING MEMBER A MINIMUM OF THREE EXPOSED THREADS. FASTENER MUST BE INSTALLED AT A MINIMUM 3/8" EDGE DISTANCE. DOUBLE STUDS ARE REQUIRED AT EACH END OF ALL SHEAR WALLS. 									
	CF	<u>S HOLDO'</u>	WN SCH	EDULE						
MARK	HOLDOWN	THREADED ANCHOR	STUD FASTENERS	EMBED PLATES	ALLOWABLE HOLDOWN CAPACITY (LBS) ^[5]					
4	S/HDU4	5/8"Ø	6- #14	TYPE I	2550					
9	S/HDU9	5/8"Ø	18- #14	TYPE I	6750					
 PROVIDE DOU UNLESS NOTE USE STD #14 ANCHOR BOL HOLDOWN TE USE TYPE 2 E 	JBLE (BACK-TO-BA(ED OTHERWISE. SELF DRILLING SCI T WASHER IS NOT NSION CAPACITY I	s given in ASD. Duble s/HDU9 Holdo\	⁻ EACH END OF SHEA D (OR 1/4" SELF DRIL	R WALL TO FAST						











RAMMED AGGREGATE PIERS BELOW



10 FLOOR DUCT INFILL

/- (E) SLAB 3 1/2" FV

3-#3 ALONG EA LONG SIDE, C DRILLED 3" AND EPOXIED

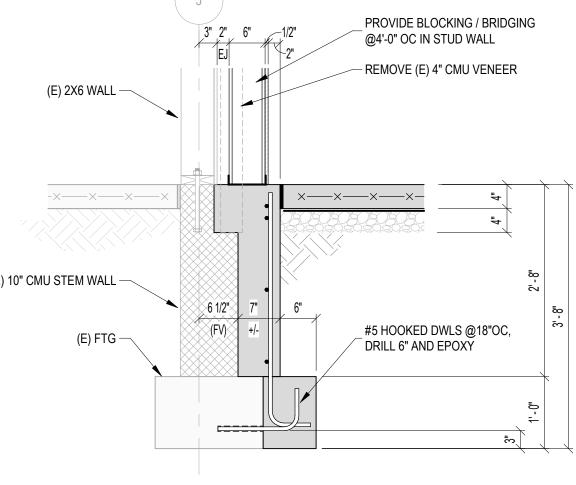
POST PER PLAN W/ SIMPSON PPB66-4Z #4 CLOSED TIES @12"OC PLUS 2@3"OC TOP - 4-#7 HOOKED DWLS 2' - 0" 6" ____/ _/___ SEE PLAN AND SCHEDULE 9 EXTERIOR PEDESTAL 3/4" = 1'-0"

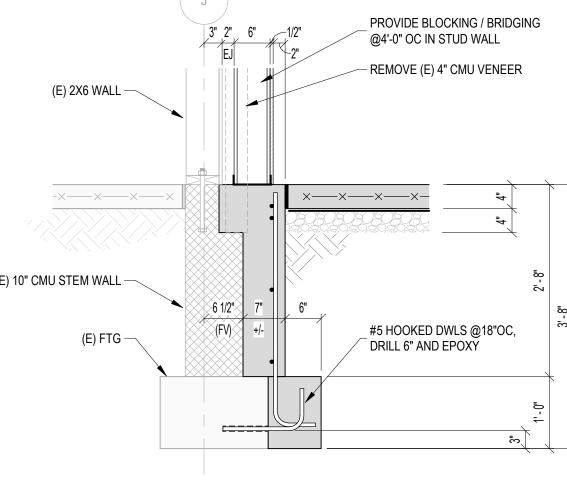
- SHEAR WALL ~ SEE PLAN AND SCHEDULE ______X____X____X_____X 4 5" 6" 5" 1' - 4"

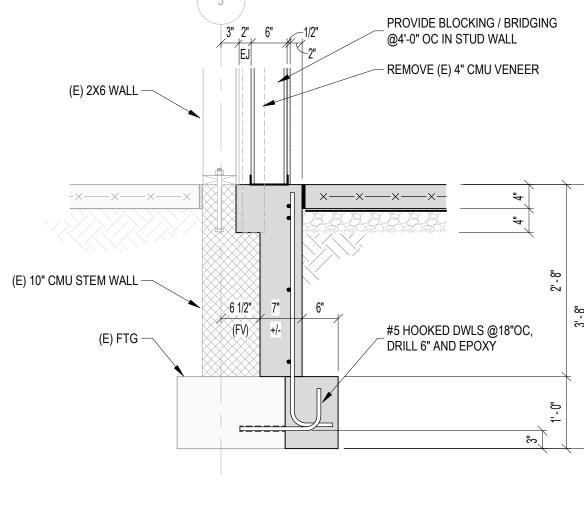
8 INTERIOR SHEAR WALL 3/4" = 1'-0"











6 FOUNDATION AT EXISTING WALL 3/4" = 1'-0"

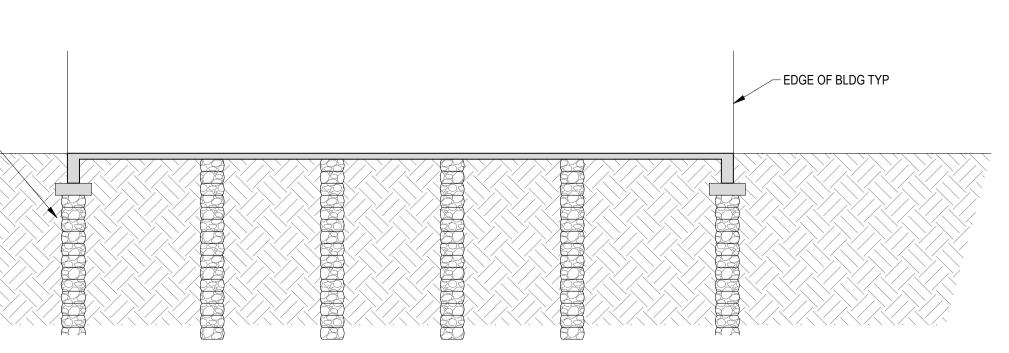
REMOVE(E) 2X6 WALL ONLY AFTER SHORING (E) ROOF JOISTS AND INSTALLING (N) HEADER

-×-----×-----×--

(E) 10" CMU STEM WALL -

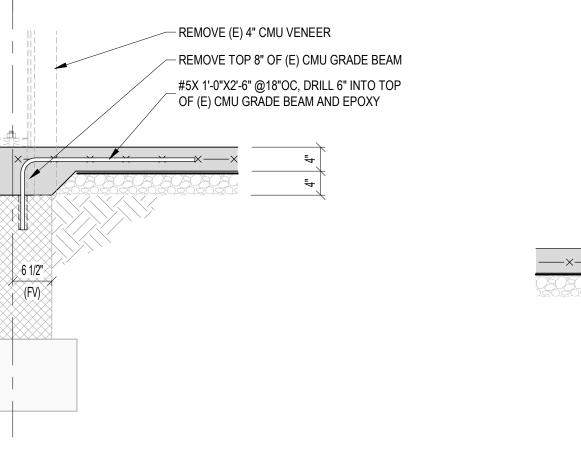
(E) FTG --

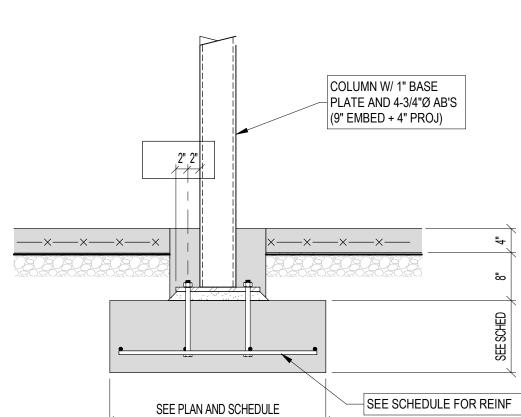




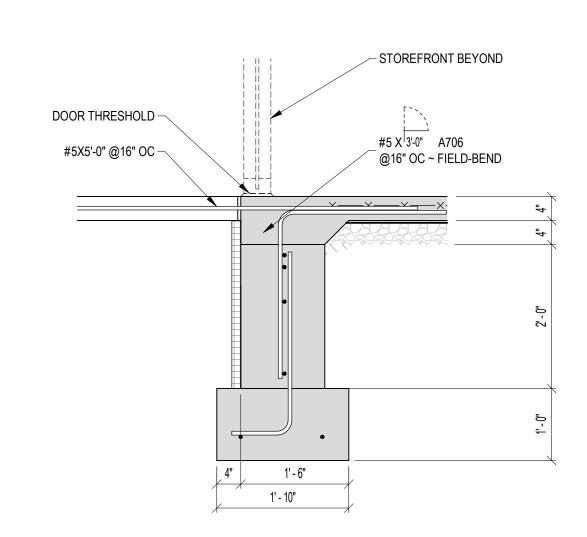
7 NEW SLAB POUR OVER AT EXSTG GRADE BEAM 3/4" = 1'-0"



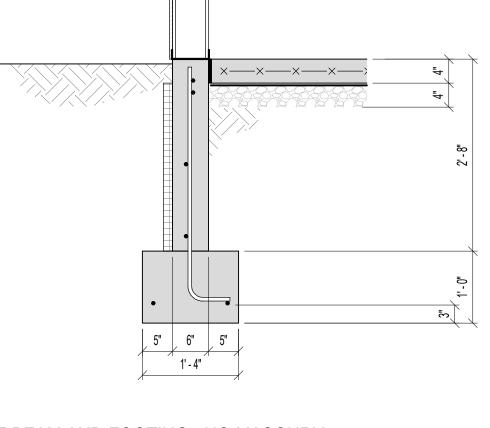


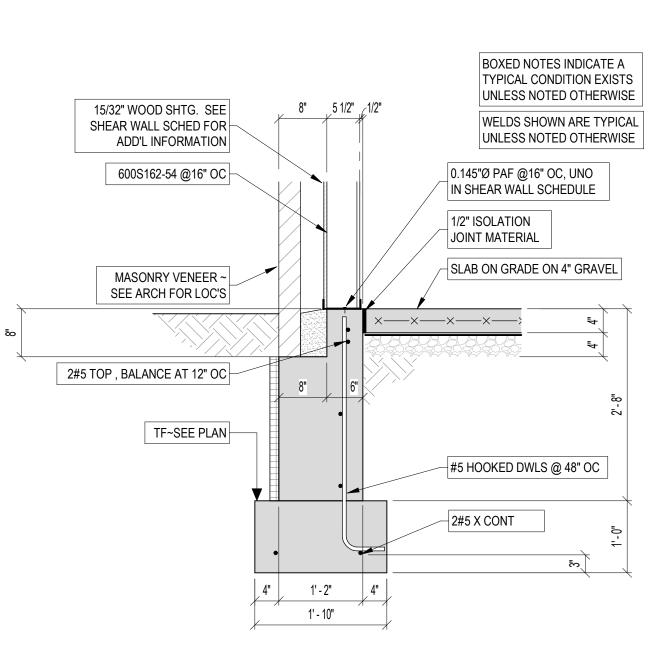


J



5 GRADE BEAM AND FOOTING - NO MASONRY

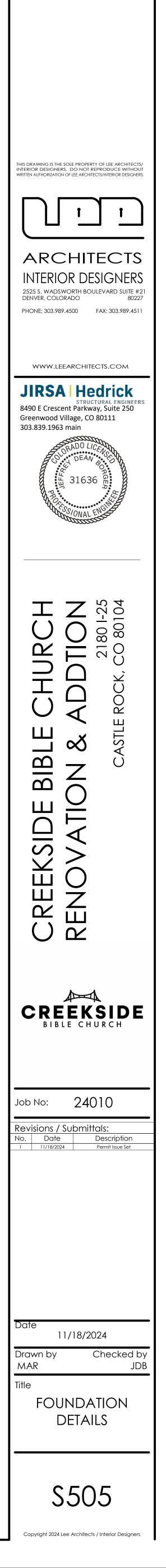




GRADE BEAM AND FOOTING WITH MASONRY

3/4" = 1'-0"

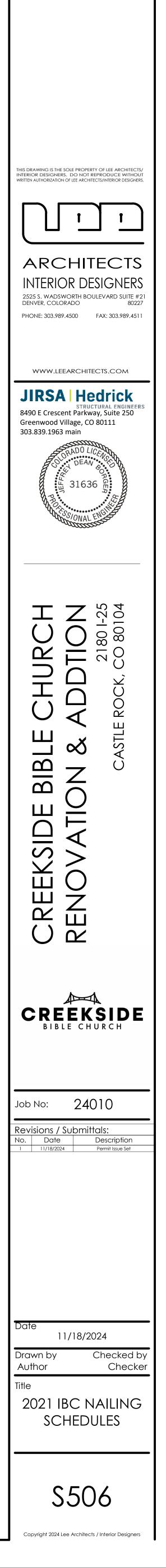
2 <u>THRESHOLD</u> 3/4" = 1'-0"

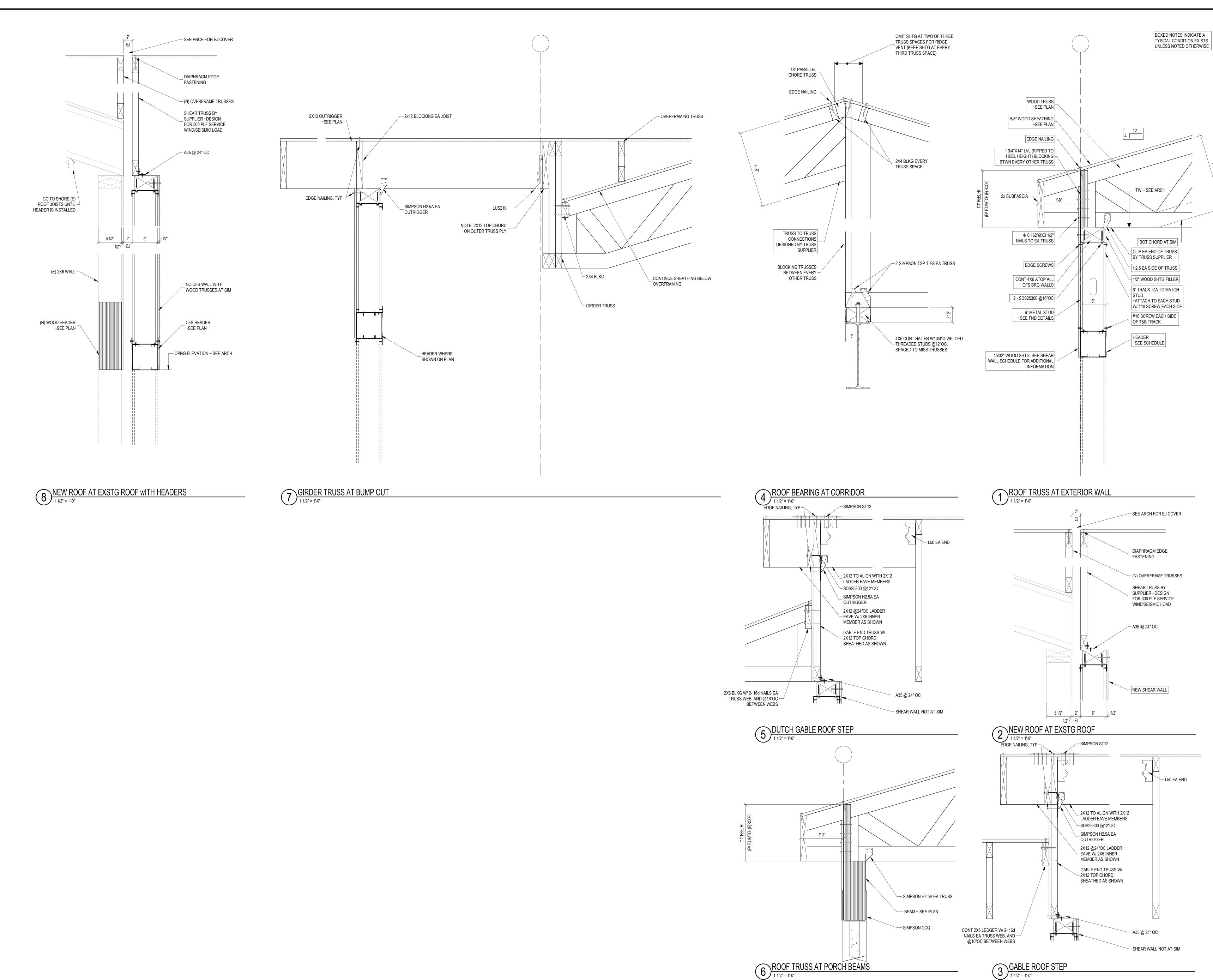




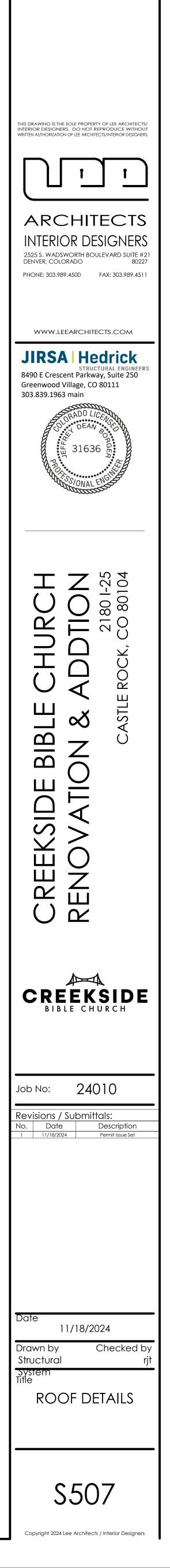
OR OTHER FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS FLAT BLOCKING TO TRUSS AND WEB FILLER 2. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1) 4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1) 5. COLLAR TIE TO RAFTER 6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5) 7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2.INCH RIDGE BEAM 8. STUD TO STUD (NOT AT BRACED WALL PANELS) 9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) 10. BUILT-UP HEADER (2" TO 2" HEADER) 11. CONTINUOUS HEADER TO STUD 12. TOP PLATE TO TOP PLATE 13. TOP PLATE TO TOP PLATE 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 15. BOTTOM PLATE TO TOP PLATE 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING	CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS AND WEB FILLER 2. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1) 4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1) 5. COLLAR TIE TO RAFTER OR RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5) 7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2.INCH RIDGE BEAM 8. STUD TO STUD (NOT AT BRACED WALL PANELS) 9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) 10. BUILT-UP HEADER (2" TO 2" HEADER) 11. CONTINUOUS HEADER TO STUD 12. TOP PLATE TO TOP PLATE MULL PANELS) 13. TOP PLATE TO TOP PLATE 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATE TO TOP PLATE 18. AT END JOINTS 18. 1" BRACE TO EACH STUD 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING 20. 1"X8" AND WIDER SHEATHING 20. 1"X8" AND WIDER SHEATHING 20. 1"X8" AND WIDER SHEATHING	В	DESCRIPTION OF UILDING ELEMENTS
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 12. TOP PLATE TO TOP PLATE 13. TOP PLATE TO TOP PLATE, AT END JOINTS 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING 	 12. TOP PLATE TO TOP PLATE 13. TOP PLATE TO TOP PLATE, AT END JOINTS 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING 	11.	,
AT END JOINTS 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	AT END JOINTS AT END JOINTS AT END JOINTS AT END JOINTS AT END PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS AND TO TOP OR BOTTOM PLATE PLATE TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS BRACE TO EACH STUD AND PLATE II. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	12.	
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 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING 	 16. STUD TO TOP OR BOTTOM PLATE 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING 	15.	RIM JOIST, BAND JOIST OR
CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	16.	STUD TO TOP OR BOTTOM
CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	CORNERS AND INTERSECTIONS 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING		
AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	AND PLATE 19. 1"X6" SHEATHING TO EACH BEARING 20. 1"X8" AND WIDER SHEATHING	17.	CORNERS AND
EACH BEARING 20. 1"X8" AND WIDER SHEATHING	EACH BEARING 20. 1"X8" AND WIDER SHEATHING	18.	
		19.	1"X6" SHEATHING TO EACH BEARING
		20.	

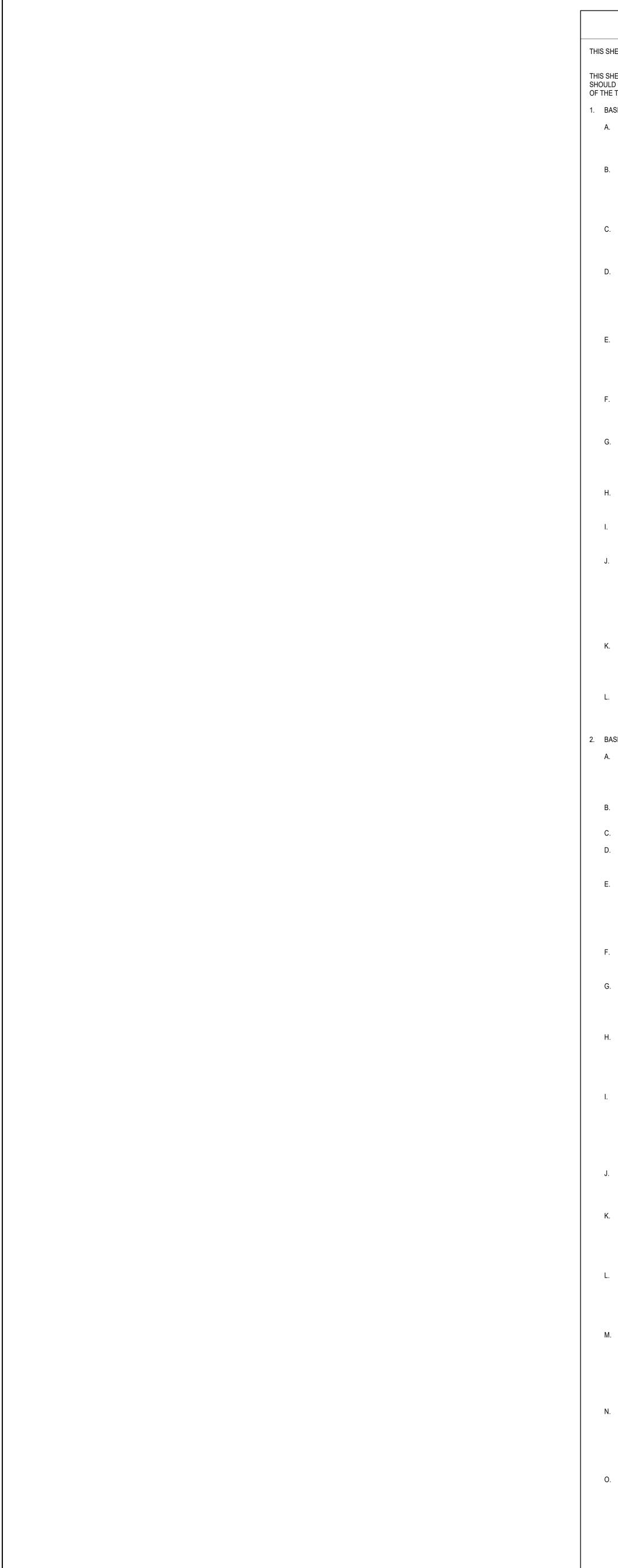
N OF	NUMBER AND TYPE OF	SPACING AND	DESCRIPTION OF	NUMBER AND TYPE OF	SPACING AND	
MENTS	FASTENERS	LOCATION	BUILDING ELEMENTS	FASTENERS		
EN	ROOF 3- 8d COMMON (2 1/2"X0.131");		21. JOIST TO SILL, TOP PLATE, OR GIRDER	FLOOR 3- 8d COMMON (2 1/2"X0.131"); OR		
AFTERS OP PLATE G BELOW	GAGE STAPLES, 7/16" CROWN	d BOX (3"X0.128"); OR 131" NAILS; OR 3- 3" 14 EACH END, TOENAIL		3- 10d BOX (3"X0.128"); OR 3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	
EN S NOT	2- 8d COMMON (2 1/2"X0.131"); OR2- 3"X0.131" NAILS; OR 2- 3" 14 GAGE STAPLES	EACH END, TOENAIL	22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2 1/2"X0.131"); OR 10d BOX (3"X0.128"); OR 3"X0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" OC, TOENAIL	
PLATE, JSS	2- 16d COMMON (3 1/2"X0.162"); OR3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES	END NAIL	23. 1"X6" SUBFLOOR OR LESS TO EACH JOIST	2- 8d COMMON (2 1/2"X0.131"); OR 2- 10d BOX (3"X0.128")	FACE NAIL	
TRUSS	16d COMMON (3 1/2"X0.162"); OR @6" OC 3"X0.131" NAILS @6" OC 3"X14 GAGE STAPLES @6" OC	FACE NAIL	24. 2" SUBFLOOR TO JOIST OR GIRDER25. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2- 16d COMMON (3 1/2"X0.162") 2- 16d COMMON (3 1/2"X0.162")	FACE NAIL EACH BEARING, FACE	NAIL
ТОР	3- 8d COMMON (2 1/2"X0.131"); OR3- 10d BOX (3"X0.128"); OR 3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL	26. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4"X0.192") 10d BOX (3"X0.128"); OR 3"X0.131" NAILS; OR	32" OC, FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 24" OC, FACE NAIL AT TOP AND BOTTOM STAGGERED	
ALLEL R IRUST) .7.3.1,	3- 16d COMMON (3 1/2"X0.162"); OR 4- 10d BOX (3"X0.128"); OR 4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL		3" 14 GAGE STAPLES, 7/16" CROWN AND: 2- 20d COMMON (4"X0.192"); OR 3- 10d BOX (3"X0.128"); OR 3- 3"X0.131" NAILS; OR	ON OPPOSITE SIDES ENDS AND AT EACH SF FACE NAIL	
ACHED TO (HEEL DN 308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL	27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3- 3" 14 GAGE STAPLES, 7/16" CROWN 3- 16d COMMON (3 1/2"X0.162"); OR 4- 10d BOX (3"X0.128"); OR 4- 3"X0.131" NAILS; OR	EACH JOIST OR RAFTE FACE NAIL	R,
TER	3- 10d COMMON (3"X0.148"); OR 4- 10d BOX (3"X0.128"); OR 4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	28. JOIST TO BAND JOIST OR RIM JOIST	4- 3" 14 GAGE STAPLES, 7/16" CROWN 3- 16d COMMON (3 1/2"X0.162"); OR 4- 10d BOX (3"X0.128"); OR 4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	
TRUSS TO ECTION 08.7.5)	3- 10d COMMON (3"X0.148"); OR 3- 16d BOX (3 1/2"X0.135"); OR 4- 10d BOX (3"X0.128"); OR 4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL°	29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2- 8d COMMON (2 1/2"X0.131"); OR 2- 10d BOX (3"X0.128"); OR 2- 3"X0.131" NAILS; OR 2- 3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL	
RIDGE TERS;	2- 16d COMMON (3 1/2"X0.162"); OR 3- 10d BOX (3"X0.128"); OR	END NAIL	WOOD STRUCTURAL PANELS (WSP), SUB	FLOOR, ROOF AND INTERIOR WALL SHEATHIN SHEATHING TO FRAMING ^a		
то И	3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN				EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHE
	3- 10d COMMON (3"X0.148"); OR 4- 16d BOX (3 1/2"X0.135"); OR 4- 10d BOX (3"X0.128"); OR	TOENAIL	30. 3/8" - 1/2"	6d COMMON OR DEFORMED (2"X0.113"); OR (SUBFLOOR AND WALL) 8d BOX OR DEFORMED (2 1/2"X0.113")	6	12
	4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN			(ROOF) RSRS-01 (2 3/8"X0.113") NAIL (ROOF) ^d 2 3/8"X0.113" NAIL (SUBFLOOR AND WALL)	6	12
	WALL			1 3/4" 16 GAGE STAPLE, 7/16" CROWN	4	8
T AT ELS) –	16d COMMON (3 1/2"X0.162")	24" OC FACE NAIL		(SUBFLOOR AND WALL) 2 3/8"X0.113" NAIL (ROOF)	4	8
- /	10d BOX (3"X0.128"); OR 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	16" OC FACE NAIL		1 3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	3	6
) (T	16d COMMON (3 1/2"X0.162") 16d BOX (3 1/2"X0.135")	16" OC FACE NAIL 12" OC FACE NAIL	31. 19/32" - 3/4"	8d COMMON (2 1/2"X0.131"); OR 6d DEFORMED (2"X0.113")	6	12
_L CED	3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	12" OC FACE NAIL		(SUBFLOOR AND WALL) 8d COMMON OR DEFORMED (2 1/2"X0.131")	6	12
2" TO 2"	16d COMMON (3 1/2"X0.162")	16" OC EACH EDGE FACE NAIL		(ROOF); OR RSRS-01 (2 3/8"X0.113") NAIL (ROOF) ^d .		12
ER TO	16d BOX (3 1/2"X0.135") 4- 8d COMMON (2 1/2"X0.131"); OR	12" OC EACH EDGE FACE NAIL		2 3/8"X0.113" NAIL 2" 16 GAGE STAPLE, 7/16" CROWN	4	8
PLATE	4- 10d BOX (3"X0.128") 16d COMMON (3 1/2"X0.162")	16" OC FACE NAIL	32. 7/8" - 1 1/4"	10d COMMON (3"X0.148"); OR 8d DEFORMED (2 1/2"X0.131")	6	12
	10d BOX (3"X0.128"); OR 3"X0.131" NAILS; OR 3- 3" 14 GAGE	12" OC FACE NAIL	OTHE 33. 1/2" FIBERBOARD SHEATHING ^b	ER EXTERIOR WALL SHEATHING 1 1/2" GALVANIZED ROOFING NAIL (7/16"	1	
PLATE,	STAPLES, 7/16" CROWN 8- 16d COMMON (3 1/2"X0.162"); OR 12- 10d BOX (3"X0.128"); OR	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP	33. 1/2 FIDERDUARD SHEATHING"	HEAD DIAMETER); OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
JOIST,	12- 3"X0.131" NAILS; OR 12- 3" 14 GAGE STAPLES, 7/16" CROWN 16d COMMON (3 1/2"X0.162")	SPLICE LENGTH EACH SIDE OF END JOINT) 16" OC FACE NAIL	34. 25/32" FIBERBOARD SHEATHING ^b	1 3/4" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER) 1 1/2" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
IST OR - BRACED	16d BOX (3 1/2"X0.135"); OR 3"X0.131" NAILS: OR 3" 14 GAGE	12" OC FACE NAIL	WOOD STRUCTURAI	L PANELS, COMBINATION SUBFLOOR UNDERL	AYMENT TO FRAMING	
	STAPLES, 7/16" CROWN		35. 3/4" AND LESS	8d COMMON (2 1/2"X0.131"); OR 6d DEFORMED (2"X0.113")	6	12
JOIST, IST OR	2- 16d COMMON (3 1/2"X0.162"); OR 3- 16d BOX (3 1/2"X0.135");	16" OC FACE NAIL	36. 7/8" - 1"	8d COMMON (2 1/2"X0.131"); OR 8d DEFORMED (2 1/2"X0.131")	6	12
ED WALL	OR 4-3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN		37. 11/8" - 11/4"	10d COMMON (3"X0.148"); OR 8d DEFORMED (2 1/2"X0.131")	6	12
MOTTC	4- 8d COMMON (2 1/2"X0.131"); OR 4- 10d BOX (3"X0.128"); OR	TOENAIL		PANEL SIDING TO FRAMING		
-	4- 3"X0.131" NAILS; OR 4- 3" 14 GAGE STAPLES, 7/16" CROWN 2- 16d COMMON (3 1/2"X0.162");		38. 1/2" OR LESS	6d CORROSION-RESISTANT SIDING (1 7/8"X0.106"); OR 6d CORROSION-RESISTANT CASING (2"X0.099")	6	12
	OR 3- 10d BOX (3"X0.128"); OR 3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	39. 5/8"	8d CORROSION-RESISTANT SIDING (2 3/8"X0.128"); OR 8d CORROSION-RESISTANT CASING	6	12
AT	2- 16d COMMON (3 1/2"X0.162"); OR3- 10d BOX (3"X0.128"); OR 3- 3"X0.131" NAILS; OR 3- 3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL		(2 1/2"X0.113") INTERIOR PANELING		
STUD	2-8d COMMON (2 1/2"X0.131"); OR		40. 1/4"	4d CASING (1 1/2"X0.080"); OR 4d FINISH (1 1/2"X0.072")	6	12
	2- 10d BOX (3"X0.128"); OR 2- 3"X0.131" NAILS; OR 2- 3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	41. 3/8"	6d CASING (2"X0.099"); OR 6d FINISH (PANEL SUPPORTS AT 24")	6	12
C C	2- 8d COMMON (2 1/2"X0.131"); OR 2- 10d BOX (3"X0.128")	FACE NAIL		SUPPORTS WHERE SPANS ARE 48" OR MORE. I		
HEATHING	3- 8d COMMON (2 1/2"X0.131"); OR 3- 10d BOX (3"X0.128")	FACE NAIL	 BE COMMON, BOX OR CASING. b. SPACING SHALL BE 6" OC ON THE EDGES SUPPORTS AT 16" (20" IF STRENGTH AXIS c. WHERE A RAFTER IS FASTENED TO AN A 	D SHEAR WALLS, REFER TO SECTION 2305. NAI S AND 12" OC AT INTERMEDIATE SUPPORTS FO S IN THE LONG DIRECTION OF THE PANEL, UNI ADJACENT PARALLEL CEILING JOIST IN ACCOR P PLATE IN ACCORDANCE WITH THIS SCHEDUL	OR NONSTRUCTURAL AP ESS OTHERWISE NOTEI DANCE WITH THIS SCHE	PLICATIONS. PANEL D.) DULE AND THE











THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION, THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL. BASIC REQUIREMENTS

- A. MECHANICAL PLANS MAY INCLUDE SCOPE INFORMATION FOR OTHER TRADES. GENERAL CONTRACTOR TO FACILITATE COORDINATION OF PERTINENT INFO TO REQUIRED CONTRACTORS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO BID TO CONFIRM A COMPLETE SYSTEM IS INCLUDED.
- B. MECHANICAL DESIGN SHALL CONFORM TO ADOPTED CODES AND LOCAL AMENDMENTS. PROJECT SHALL BE COORDINATED WITH BUILDING SERVICES AND SHALL INCLUDE ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR 3. NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
- C. DO NOT SCALE FROM THESE DRAWINGS, REFER TO ARCHITECTURAL, STRUCTURAL OR CIVIL DRAWINGS BY OTHER DESIGN PROFESSIONALS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS.
- D. SCALES, DIMENSIONS OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. DESIGN IS DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY DESIGN INTENT ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE PRIOR TO BID FOR ESTIMATING PURPOSES.
- COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE, WHERE CROWDED CONDITIONS EXIST. PREPARE COORDINATION DRAWINGS SHOWING TRADE CONFLICTS AND SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF WORK MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST. PROVIDE OFFSETS AT CHANGES OF DIRECTION AND TO AVOID OBSTRUCTIONS AT NO ADDITIONAL COST TO OWNER.
- WORK SHALL BE PERFORMED BY PROPERLY LICENSED CONTRACTORS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL, ASTM, ETC. AND SHALL BEAR THE LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
- G. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EQUIPMENT AND APPARATUS FURNISHED BY CONTRACTOR, TENANT, OTHER TRADES, DIVISIONS AND/OR EXISTING. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR DIRECTION PRIOR TO PROCEEDING
- H. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ARCHITECT/ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.
- CONTRACTOR TO ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES ON ALL EQUIPMENT AND PROVIDE ALL NECESSARY ADJUSTMENTS FOR PROPER OPERATION.
- SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL 4. DUCTWORK – ENVIRONMENTAL AIR AND GENERAL EXHAUST. BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR THEIR AGENCIES. ANY SUBSTITUTED EQUIPMENT FROM SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS,
- ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE SUBSTITUTED EQUIPMENT REALIZED BY OTHER CONTRACTORS OR THE DESIGN TEAM. K. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE NEW EQUIPMENT, DUCT SYSTEMS, AND DEVICES IN A LIKE NEW STATE AT TIME OF PROJECT CLOSEOUT. PROTECT EQUIPMENT AND DEVICES
- AS REQUIRED AGAINST PHYSICAL DAMAGE, DEBRIS, RAIN, SNOW, WIND, DIRT, SUN FADING, RUST CORROSION OR ANY OTHER DEGRADATION. CONTRACTOR TO REPAIR OR REPLACE ANY EQUIPMENT OR DEVICES AS REQUIRED. FOR COMMERCIAL SPACES, AFTER COMPLETING SYSTEM INSTALLATION AND INSPECTION, CLEAN
- DUCT SYSTEMS AND AIR-MOVING EQUIPMENT IN ACCORDANCE WITH NATIONAL AIR DUCT CLEANERS' ASSOCIATION (NADCA) SPECIFICATIONS. THE CLEANING AGENCY SHALL BE A CERTIFIED MEMBER OF NADCA OR SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED PROGRAM AND ORGANIZATION. BASIC MATERIALS
- A. PROVIDE MECHANICAL SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMERS, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM. CONTRACTOR IS REQUIRED TO COORDINATE WITH OTHER TRADES OR RETAIN SUB-CONTRACTORS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PRIOR TO BID.
- B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF MECHANICAL MATERIALS, EQUIPMENT, AND APPARATUS. C. PROVIDE VIBRATION ISOLATION ON MECHANICAL EQUIPMENT.
- D. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THE CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION, ELEVATION, EXTENT, MATERIAL, AND FINISH.
- E. UTILIZE AN INDEPENDENT BALANCER WITH NEBB AND/OR AABC CERTIFICATION. MECHANICAL SYSTEM SHALL BE BALANCED TO 10% DISCREPANCY OF THE VALUES INDICATED ON THE PLANS. IF THERE IS A DISCREPANCY GREATER THAN 10%, BALANCE CONTRACTOR SHALL CONTACT ENGINEER. A BALANCING METHOD MUST BE PROVIDED FOR ALL EQUIPMENT. PROVIDE A FINAL COPY OF THE BALANCE REPORT TO THE BUILDING DEPARTMENT AND ENGINEER OF RECORD UPON COMPLETION OF THE HVAC SYSTEM. RESIDENTIAL UNITS SHALL BE PROVIDED WITH A PROJECT SPECIFIC BALANCING PLAN AS REQUIRED BY THE RESPECTIVE ENERGY PROGRAM AND AUTHORITY HAVING JURISDICTION.
- FIRE STOP ALL PIPING, DUCTING, AND WIRING MATERIALS PASSING THROUGH RATED STRUCTURES OR ASSEMBLIES USING U.L. LISTED PRODUCTS FOR ALL APPLICABLE PENETRATIONS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- PROVIDE DUCT SMOKE DETECTORS FOR AUTOMATIC EQUIPMENT SHUTOFF IN AIR-MOVING SYSTEMS THAT RETURN IN EXCESS OF 2,000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE AIR HANDLING UNIT AUTOMATIC SHUT-DOWN WIRING AND DUCT/SMOKE DETECTOR WIRING WHEN REQUIRED, DETECTORS SHALL BE COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM.
- H. SMOKE, FIRE, RADIATION, AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. UNITS SHALL BE 120V AND ALL 120V WIRING SHALL BE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. SMOKE, FIRE AND COMBINATION FIRE/SMOKE DAMPERS FURNISHED SHALL BE COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AT TIME OF BID TO ENSURE ALL LINE VOLTAGE AND FIRE ALARM CONNECTIONS ARE INCLUDED IN THE BID SCOPE.
- CEILING RADIATION DAMPERS. FIRE DAMPERS. AND SMOKE DAMPERS SHALL BE UL LISTED FOR DYNAMIC USE IN CONFORMANCE WITH UL 555C, UL 555, AND UL 555S, RESPECTIVELY. THE CONTRACTOR SHALL MAKE APPROPRIATE PROVISIONS IF A DYNAMICALLY RATED DAMPER IS NOT AVAILABLE FOR USE IN THE INSTALLED UL LISTED ASSEMBLY. PROVISIONS TO UTILIZE A STATIC DAMPER INCLUDE BUT ARE NOT LIMITED TO, A MEANS FOR THE HVAC UNIT BLOWER(S) TO SHUT DOWN IN THE CASE OF A FIRE AND/OR SMOKE EVENT. ALL DAMPERS TO BE LISTED FOR USE WITH THE INSTALLED RATED WALL, FLOOR/CEILING OR ROOF/CEILING ASSEMBLY. IF A DISCREPANCY EXISTS, ARCHITECT/ENGINEER TO BE NOTIFIED IMMEDIATELY.
- COMBINATION FIRE/SMOKE DAMPERS AND/OR SMOKE DAMPERS SHALL BE FURNISHED WITH REMOTE COMMAND STATION EQUIPPED WITH TEST SWITCH, THERMAL TEST RESET SWITCH, OPEN/CLOSE PILOT LIGHT INDICATORS. FIRE/SMOKE DAMPERS OR SMOKE DAMPERS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
- WHERE ROOFTOP HVAC EQUIPMENT OR DUCTWORK PENETRATES A RATED CEILING/ROOF STRUCTURE THEN THE MC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE MEMBRANE EXTENSIONS UP TO THE ROOF DECK AT TIME OF BID. IF IMPRACTICAL OR COST PROHIBITIVE THEN FIRE DAMPERS MAY BE USED, AND COORDINATED AT TIME OF BID, AT THE MEMBRANE PENETRATION IN WHICH CASE THE MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE PROPER ACCESS FOR DAMPER MAINTENANCE.
- THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC AND THE PROPER SERVICING OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. AT TIME OF BID THE MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE TO ENSURE THAT ALL ACCESS PANELS (INCLUDING FIRE AND/OR SMOKE RATED MODELS) ARE INCLUDED. IN LIEU OF ACCESS PANELS IN HARD LID ARCHITECTURAL CEILINGS, PROVIDE REMOTE CABLE DAMPERS FOR BALANCING DEVICES.
- M. PROVIDE SEISMIC AND/OR WIND LOADING SECUREMENT DETAILS AS REQUIRED BY THE LOCAL JURISDICTION. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT AND/OR CURB SUPPLIER(S) TO OBTAIN THE DRAWINGS AND INSTALL THE SYSTEM AS REQUIRED BY THE MANUFACTURER. MECHANICAL CONTRACTOR TO SELECT ATTACHMENT AND MOUNTING SYSTEM(S) BASED ON ATTACHING TO THE DESIGNED SUBSTRATE AND STRUCTURE WITHOUT REQUIRING ADDITIONAL REINFORCEMENT BY OTHERS. IF ANY SUBSTRATE AND/OR STRUCTURE IS REQUIRED FOR PROPER REINFORCEMENT, MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ALL POTENTIAL REQUIREMENTS PRIOR TO BID.
- N. PROVIDE PRE-ENGINEERED DUCT STAND SYSTEMS WITH A PROFESSIONAL ENGINEER STAMP & SIGNATURE THAT CERTIFIES DUCT STAND SYSTEM COMPLIES WITH ASCE7/SBC WIND LOADING BUILDING CODE REQUIREMENTS. REFER TO WIND LOADING REQUIREMENTS PER STRUCTURAL DESIGN CRITERIA. IF DUCT STAND MANUFACTURER REQUIRES AN ADDITIONAL FEE FOR WIND LOADING DESIGN, THIS FEE SHALL BE INCLUDED IN CONTRACTOR'S BID. SHOP DRAWINGS OF ROOFTOP DUCT SYSTEM AND DUCT STAND LAYOUT WITH ENGINEER STAMP TO BE SUBMITTED TO ARCHITECT/ENGINEER OF RECORD FOR REVIEW.
- O. FIELD LABEL ALL MECHANICAL EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER MECHANICAL AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.

- P. PROVIDE 2" DEEP AUXILIARY DRAIN PAN WITH SEPARATE DRAIN LINE UNDER HEATING AND COOLING COILS (AIR HANDLING UNITS, FAN COIL UNITS, INLINE PUMPS, ETC) AND PROVIDE A WATER-LEVEL MONITORING DEVICE ON ALL DOWNFLOW EQUIPMENT WITHOUT A SECONDARY COIL WHERE CONDENSATION OR LEAKAGE CAN OCCUR. ALTERNATELY, IF ALLOWED IN LOCAL JURISDICTION, PROVIDE A UL 508 OVERFLOW CONDENSATE KILL SWITCH.
- PROVIDE MANUFACTURERS RECOMMENDED MODIFICATIONS (SUCH AS HEAT TRACE AND ROUTING CHANGES) TO CONDENSING GAS FIRED EQUIPMENT LOCATED IN POTENTIAL FREEZING SPACES (SUCH AS ATTICS). COORDINATE WITH ELECTRICAL CONTRACTOR FOR HEAT TRACE CIRCUITING & INSTALLATION.
- R. ALL PROVIDED MATERIALS LOCATED IN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED BY AN INDEPENDENT TESTING LAB. CONTRACTOR SHALL COORDINATE AT TIME OF BID WITH OTHER TRADES. PIPING
- A. PIPING MATERIALS, FITTINGS, VALVES, AND SPECIALTIES SHALL BE PROVIDED PER THE SYSTEM, MAXIMUM PRESSURE AT LOWEST POINT IN PIPING SYSTEM, AND SIZE UNLESS NOTED OTHERWISE
- B. REFRIGERANT PIPING 1-3/8" AND SMALLER SHALL BE ASTM B280 ACR OR ASTM B88 TYPE K ACR, ANNEALED COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SILVER ALLOY (BAg-1) BRAZED JOINTS
- C. REFRIGERANT PIPING LARGER THAN 1-3/8" TO 4" SHALL BE ASTM B42. HARD-DRAWN COPPER PIPE WITH WROUGHT COPPER FITTINGS AND SILVER ALLOY (BAg-1) BRAZED JOINTS.
- D. CONDENSATE DRAIN PIPING MATERIALS SHALL BE: A. TYPE M COPPER WITH SOLDERED JOINTS OR B. CPVC PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
- SYSTEMS INSTALLED WITH DIS-SIMILAR MATERIALS MUST BE JOINED WITH DIELECTRIC FITTINGS PER MANUFACTURERS' REQUIREMENTS TO PREVENT GALVANIC CORROSION.
- SLEEVES MUST BE PROVIDED FOR PIPING SYSTEMS ROUTED THROUGH MASONRY OR CONCRETE ASSEMBLIES, SLEEVES SIZES, MATERIALS AND FIRE-STOPPING SHALL BE COORDINATED PER PLAN WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ARCHITECTURAL ASSEMBLIES' REQUIREMENTS.
- ANY PIPING SYSTEM OR SUPPORT/HANGER LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALTERNATIVELY, COMBUSTIBLE MATERIALS SHALL BE FULLY ENCLOSED IN MATERIALS LISTED AND LABELED FOR INSTALLATION WITHIN A PLENUM AND LISTED FOR THE APPLICATION.
- 1. ALL 2" DIAMETER AND GREATER PIPING MUST BE VIBRATION ISOLATED WHERE LOCATED WITHIN MECHANICAL EQUIPMENT ROOMS AND/OR FOR A MINIMUM DISTANCE OF 50' FROM CONNECTION TO ANY VIBRATING EQUIPMENT WITH ISOLATION HANGERS WITH A MINIMUM ³/₄" STATIC DEFLECTION THE FIRST THREE HANGERS FROM THE EQUIPMENT SHALL HAVE A STATIC DEFLECTION EQUAL TO THAT OF THE ISOLATORS ON THE EQUIPMENT TO WHICH THE PIPE IS ATTACHED, OR 2" MAXIMUM. SMALLER PIPING REQUIRES RESILIENT MEANS OF ATTACHMENT BY USING A 3" LONG SECTION OF 1/2" THICK, CLOSED-CELL, SYNTHETIC FOAM RUBBER PIPE INSULATION.
- A. DUCTWORK SERVING ENVIRONMENTAL AIR FOR HVAC SYSTEMS AND FOR GENERAL EXHAUST PURPOSES SUCH AS TOILET, NON-COMMERCIAL KITCHEN, OR NON-HAZARDOUS EXHAUST SHALL BE CONSTRUCTED, INSTALLED, AND SEALED IN ACCORDANCE WITH SMACNA STANDARDS. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND FOUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES. FINISHES FOR EXPOSED DUCTWORK, JOINT CONNECTION, AND SEALING METHODS SHALL BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO BID. MINIMUM DUCT THICKNESS SHALL BE 26 GAGE OR THICKER AS REQUIRED BY SMACNA OR NOTED OTHERWISE
- . DUCT MATERIALS SHALL BE PROVIDED PER THE SYSTEM TYPE, MAXIMUM OPERATING PRESSURE OF THE SYSTEM, AND SIZE UNLESS NOTED OTHERWISE: 1. GALVANIZED STEEL SHEET WITH A MINIMUM G90 ZINC COATING CONFORMING TO ASTM A924 & ASTM A653.
- 2. ALUMINUM SHEET CONSTRUCTED OF 3003-H14 CONFORMING TO ASTM B209.
- 3. STAINLESS STEEL CONSTRUCTED OF TYPE 304 OR 316 SHEET CONFORMING TO ASTM A480.
- 4. ANY NON-METALLIC DUCT AND FLEXIBLE DUCT SHALL BE CLASS 0 OR CLASS 1 DUCT MATERIALS AND UL 181 LISTED.
- 5. FLEXIBLE CONNECTIONS SHALL BE CONSTRUCTED OF FLAME-RESISTANT MATERIAL, AND COMPLYING WITH NFPA-701. FLEXIBLE CONNECTORS INSTALLED EXPOSED TO WEATHER SHALL BE UV RESISTANT.
- 6. FIBERGLASS DUCT BOARD SHALL BE CONSTRUCTED CONFORMING TO ASTM 1071, ASTM E84 AND LISTED FOR UL 181 CLASS 1
- 7. FABRIC, UNDERGROUND, AND PREFAB ENVIRONMENTAL DUCTWORK AS SPECIFIED SHALL BE CONSTRUCTED AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND METHODS.
- C. DUCT SYSTEM MATERIAL SCHEDULE SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
- 1. SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE
- 2. ALL DUCTWORK SERVING OR WITHIN A HIGH HUMIDITY ENVIRONMENT (NATATORIUM, SPA, LOCKER/SHOWER ROOM, ETC.) SHALL BE ALUMINUM OR STAINLESS STEEL.
- 3. DUCT BOARD IS APPROVED FOR TRANSFER DUCTS AND RETURN AIR BOOTS. TURNING VANES ARE NOT REQUIRED IN TRANSFER AIR DUCTS.
- 4. DUCTWORK SERVING NON-COMMERCIAL ENVIRONMENTAL KITCHEN OR LAUNDRY EXHAUST SHALL BE RIGID GALVANIZED OR ALUMINUM.
- D. DUCT CONSTRUCTION, FITTINGS, AND ACCESSORIES SHALL BE PROVIDED PER THE SYSTEM TYPE, MAXIMUM OPERATING PRESSURE OF THE SYSTEM, AND SIZE UNLESS NOTED OTHERWISE:
- 1. ALL DUCTWORK, TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SHALL BE SEALED AIRTIGHT. THE DUCT PRESSURE CLASS SHALL BE AS NOTED ON PLANS OR CORRESPONDING TO THE MAXIMUM EQUIPMENT EXTERNAL STATIC PRESSURE ON EACH SYSTEM. DUCT SYSTEMS WITH PRESSURE CLASSIFICATIONS GREATER THAN 2 INWC SHALL BE LEAKAGE-TESTED AND PROVED AIRTIGHT TO STANDARDS ESTABLISHED BY SMACNA PRIOR TO APPLYING EXTERNAL INSULATION.
- 2. DUCT SIZES GIVEN ARE NET INSIDE FREE AREA. WHERE INTERNAL DUCT LINING IS USED, INCREASE DUCT SIZES ACCORDINGLY TO PROVIDE THE INDICATED NET FREE AREA.
- 3. UNLESS NOTED OTHERWISE, CONNECTIONS TO AIR DEVICES AND AIR-MOVING EQUIPMENT TO BE THE FULL SIZE OF THE EQUIPMENT CONNECTION.
- 4. EXPOSED ROUND OR OVAL DUCTWORK SHALL BE SPIRAL CONSTRUCTION. EXPOSED RECTANGULAR DUCTWORK JOINTS AND FITTINGS SHALL BE FLANGED CONNECTIONS. ALL DUCT SEALING MATERIALS AND METHODS SHALL BE APPLIED IN A WORKMANSHIP LIKE MANNER WITH NO VISIBLE SEALANT. COORDINATE WITH ARCHITECT IF DUCTWORK SHALL BE PAINTABLE.
- 5. INSTALL TURNING VANES IN ALL 90-DEGREE SQUARE ELBOWS AND TEE FITTINGS WITHIN COMMERCIAL AND MULTI-FLOOR RESIDENTIAL DWELLING UNITS' DUCTWORK. SINGLE FLOOR DWELLING UNITS LESS THAN 1,800 SQUARE FEET SHALL NOT BE REQUIRED TO HAVE TURNING VANES. ALL TURNING VANES SHALL HAVE SMOOTH EDGES AND BE OF WORKMANSHIP LIKE QUALITY.
- 6. ALL DUCT TAPS AND RUNOUTS TO ANY SUPPLY, RETURN, OR EXHAUST TERMINAL SHALL BE PROVIDED WITH A MEANS OF BALANCING AIRFLOW.
- 7. ALL ROUND DUCTWORK SERVING DISHWASHER, KITCHEN OR LAUNDRY EXHAUST SHALL BE UNVANED SMOOTH RADIUS WITH A RADIUS EQUAL TO 1-1/2 TIMES THE DIAMETER OF THE DUCT.
- 8. INSTALL DUCT ACCESS DOORS FOR INSPECTION AND CLEANING FILTERS, COILS, DAMPERS, AND EQUIPMENT, ETC. PROVIDE AN APPROVED MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE.
- E. INSTALL FLEXIBLE DUCT CONNECTORS ON ALL AIR HANDLING AND VAV TYPE EQUIPMENT DUCT CONNECTIONS. CONNECTORS SHALL HAVE A MAXIMUM LENGTH OF 10 INCHES.
- F. FLEXIBLE DUCTWORK TO AIR DEVICES IN COMMERCIAL SPACES SHALL HAVE A MAXIMUM STRETCHED LENGTH OF 6 FEET. REFER TO FLEX DUCT ROUTING NOTES FOR CONNECTIONS WITHIN RESIDENTIAL
- PRESSURIZED EXHAUST DUCTWORK LOCATED RETURN AIR PLENUM SHALL BE SEALED WITH SMACNA SEAL CLASS "A" DUCT SEALANT. H. MECHANICAL CONTRACTOR MUST COORDINATE WITH ALL TRADES AND STRUCTURAL MEMBERS TO
- MAINTAIN ALL EXHAUST AND INTAKE CLEARANCES PER AUTHORITY HAVING JURISDICTION REQUIREMENTS, COORDINATE ANY FIELD MODIFICATIONS REQUIRED PRIOR TO FABRICATION AND INSTALLATION WITH THE DESIGN TEAM.

MECHANICAL SHEET SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL

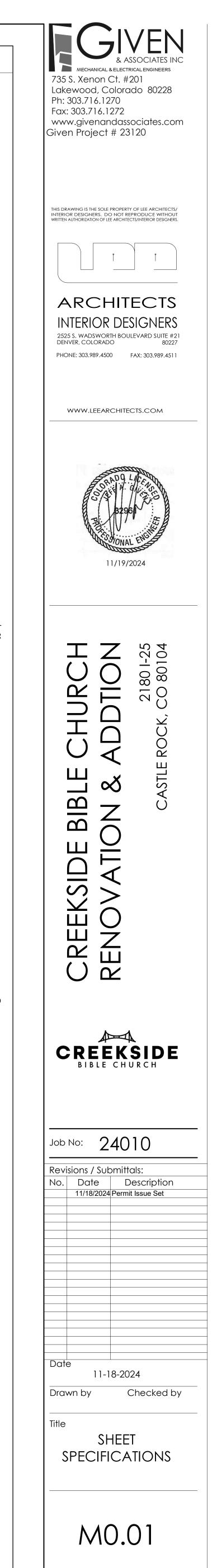
- 5. DUCTWORK PRODUCT CONVEYING & SPECIALTY DUCTWORK
- A. TYPE 2 HEAT & VAPOR EXHAUST.
 - 1. TYPE 2 HEAT EXHAUST DUCT SHALL BE GALVANIZED, ALUMINUM OR STAINLESS STEEL.
- 2. TYPE 2 MOISTURE LADEN AIR EXHAUST DUCT SHALL BE ALUMINUM OR STAINLESS STEEL 6. THERMAL INSULATION
- A. PIPING INSULATION MATERIALS, COATINGS, ADHESIVES AND SPECIALTIES SHALL BE PROVIDED PER THE SYSTEM AND MAXIMUM TEMPERATURE. UNLESS NOTED OTHERWISE:
- FIBERGLASS PIPE INSULATION SHALL BE MOLDED MINERAL FIBER WITH A FACTORY-APPLIED SELF SEALING, ALL SERVICE VAPOR RETARDER JACKET. MINERAL FIBER INSULATION AND JACKETING SHALL CONFORM TO ASTM C1136, ASTM C547 AND ASTM E84. 2. CLOSED CELL ELASTOMERIC FOAM PLASTIC INSULATION SHALL CONFORM TO ASTM C534 TYPE I
- AND ASTM E84. ALL SEAMS AND JOINTS SHALL BE SEALED AND TAPED PER THE MANUFACTURER'S INSTRUCTIONS. POLYETHYLENE (PE) SHALL NOT BE AN ACCEPTABLE SUBSTITUTION.
- 3. CELLULAR GLASS INSULATION SHALL BE PREFORMED, SEALED CELLULAR GLASS BEAD PIPE WITH FACTORY APPLIED ALL SERVICE JACKET. ALL SEAMS AND JOINTS SHALL BE SEALED AND TAPED PER THE MANUFACTURER'S INSTRUCTIONS. CELLULAR GLASS INSULATION SHALL CONFORM TO ASTM C552 AND ASTM E84.
- 4. CALCIUM SILICATE BLOCK AND PREFORMED PIPING INSULATION SHAL CONFORM TO ASTM C533 PIPING EXPOSED TO WEATHER SHALL BE INSTALLED WITH AN ALL-SERVICE JACKET AND SELF ADHERING, FOIL FACED, UV RESISTANT WEATHER BARRIER RATED FOR EXTERIOR USE.
- 6. VISIBLE PIPING NOT EXPOSED TO WEATHER SHALL BE INSTALLED WITH AN IMPACT RESISTANT PIPE PVC JACKET AND TAPE ALL SEAMS.
- B. DUCT INSULATION MATERIALS, COATING, ADHESIVES AND SPECIALTIES SHALL BE PROVIDED PER THE SYSTEM AND TYPE PER THE DUCT INSULATION SCHEDULE. MATERIALS FOR EACH TYPE OF INSULATION SHALL BE AS FOLLOWS:
- INSULATION INTERNAL TO DUCT SHALL BE A MATT-FACED, ANTI-MICROBIAL TREATED, FLEXIBLE GLASS FIBER BLANKET ATTACHED WITH MECHANICAL FASTENERS. FIBROUS GLASS DUCT LINER SHALL CONFORM TO ASTM E84 AND ASTM C1071.
- INSULATION EXTERNAL TO DUCT, NOT EXPOSED TO WEATHER SHALL BE A FLEXIBLE MINERAL FIBER BLANKET WITH A FACTORY-APPLIED FSK JACKET. MINERAL FIBER BLANKET SHALL CONFORM TO ASTM E84, ASTM C553 AND ASTM C1290.
- 3. INSULATION EXTERNAL TO DUCT AND EXPOSED TO WEATHER SHALL BE MINERAL FIBER BOARD INSULATION WITH FACTORY INSTALLED ALL-SERVICE JACKET (ASJ+) AND SELF ADHERING, FOIL FACED, UV RESISTANT WEATHER BARRIER RATED FOR EXTERIOR USE. MINERAL FIBER BOARD INSULATION SHALL CONFORM TO ASTM E84 AND ASTM C612.
- 4. ALL DUCTWORK EXPOSED TO WEATHER SHALL BE PROVIDED WITH A SELF ADHERING, FOIL FACED, UV RESISTANT WEATHER BARRIER RATED FOR EXTERIOR USE.
- EXHAUST PIPING SERVING A GENERATOR SHALL BE PREFORMED CALCIUM SILICATE CONFORMING TO ASTM C533
- D. CONDENSATE DRAIN PIPING SHALL BE 1/2-INCH-THICK INSULATION. PROVIDE WITH AN ALL-SERVICE JACKET WHEN EXPOSED.
- INSULATE REFRIGERANT SUCTION LINES WITH 3/4" FOAM PLASTIC CLOSED CELL INSULATION. 7. AIR INLETS AND OUTLETS
- A. FURNISH AND INSTALL AIR INLETS AND OUTLETS AS SCHEDULED ON THE PLANS.
- B. OUTLETS SHALL HAVE A WHITE BAKED ENAMEL FINISH TO MATCH CEILING OR WALL.
- C. AIR DEVICES SERVING SWIMMING POOL AREAS SHALL BE ALUMINUM OR GALVANIZED COATED STEEL. 8. EXHAUST FANS
- A. FURNISH AND INSTALL CENTRIFUGAL EXHAUST FANS AS SCHEDULED ON THE PLANS.
- B. FURNISH AND INSTALL ROOF CURBS AND BACKDRAFT DAMPERS
- C. FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROL NECESSARY FOR PROPER OPERATION. 9. ROOFTOP HVAC UNITS
- FURNISH AND INSTALL ROOF TOP PACKAGED ELECTRIC A/C UNITS WITH NATURAL GAS HEATING SECTIONS AS SCHEDULED ON THE PLANS. ACCEPTABLE MANUFACTURERS ARE TRANE, CARRIER, DAIKIN, OR YORK. ANY SUBSTITUTED MODELS MUST BE EQUAL IN CONTROLS, ACCESSORIES, AND PERFORMANCE TO SCHEDULED MODELS.
- FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROLS FOR SATISFACTORY OPERATION. PROVIDE PHASE REVERSAL PROTECTION ON ANY UNITS WITH SCROLL COMPRESSORS.
- FURNISH PROGRAMMABLE SPACE THERMOSTAT WITH NIGHT SETBACK OPERATION OR DIGITAL CONTROL SYSTEM FOR VAV APPLICATIONS AS APPLICABLE. MOUNT AT +42-INCHES AFF.
- D. FURNISH ALL UNITS WITH 100% OUTDOOR AIR ECONOMIZER PACKAGE UNLESS OTHERWISE NOTED.
- E. FURNISH ALL UNITS WITH 14-INCH ROOF CURBS.
- 10. ELECTRIC HEATING UNITS
- A. FURNISH AND INSTALL ELECTRIC HEATING EQUIPMENT AS SCHEDULED AND INDICATED ON THE PLANS B. ELECTRIC UNIT HEATERS SHALL BE FURNISHED COMPLETE WITH ALL MOUNTING HARDWARE AND ACCESSORIES INCLUDING SPACE THERMOSTAT AND/OR SELF-CONTAINED THERMOSTAT AS REQUIRED FOR OPERATION.
- C. PROVIDE WHITE COLOR FINISH UNLESS OTHERWISE INDICATED.
- D. ALL UNITS SHALL BE UL LISTED.
- MC SHALL REVIEW SURFACE VERSUS RECESS MOUNTING OPTIONS WITH GC PRIOR TO ORDERING EQUIPMENT. ASK FOR CLARIFICATION IF CONFLICTS ARISE DUE TO RATED WALLS, RATED CEILING, STRUCTURE, ETC.

- 11. EXISTING WET PIPE SPRINKLER SYSTEM
- A. THE EXISTING SPACE IS PRESENTLY COVERED BY A WET PIPE SPRINKLER SYSTEM. CONTRACTOR SHALL MODIFY AND EXTEND THE EXISTING SYSTEM AS REQUIRED TO INCORPORATE NEW TENANT SPRINKLED AREAS AND COORDINATE WITH NEW TENANT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL RENOVATIONS.
- B. DEMOLITION: REMOVE AND REINSTALL EXISTING SPRINKLER SYSTEM TO COORDINATE WITH NEW MECHANICAL, ELECTRICAL SYSTEM BEING INSTALLED.
- C. REQUIREMENTS: 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, REGULATIONS AND NEPA 13.
- 2. PROJECT SHALL BE COORDINATED WITH OTHER TRADES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL FIRE SUPPRESSION SYSTEM FOR THE TENANT SPACE AS REQUIRED. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED OR
- SHOWN 3. PROVIDE REVISED HYDRAULIC CALCULATIONS AS NECESSARY TO OBTAIN CITY APPROVAL OF MODIFICATION TO EXISTING SYSTEMS FOR TENANT SPACE. MAKE CONNECTION AND
- REPLACE SYSTEM COMPONENTS (INCLUDING PIPE SIZES) AS NECESSARY TO INSTALL AN ACCEPTABLE SYSTEM. INSTALL CONCEALED TYPE HEADS WITH WHITE COVER PLATES TO MATCH CEILING OR WALL.
- 5. DO NOT SCALE DRAWINGS. COORDINATE WITH OTHER TRADES FOR A FULLY COORDINATED INSTALLATION. 6. CONTRACTOR SHALL DOCUMENT EXACT FIELD CONDITIONS. IF CONFLICTS EXIST, CONTRACTOR SHALL PREPARE COORDINATION DRAWING FOR APPROVAL. PRIOR TO FXFCUTION
- 7. FINAL LOCATION OF ALL SPRINKLER HEADS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. RELOCATE AND/OR ADD HEADS AS NECESSARY TO OBTAIN LOCATION SPACING DESIRED BY ARCHITECT. 8. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILE.
- 12. NEW WET PIPE SPRINKLER SYSTEM
- A. DESIGN WET PIPE FIRE SPRINKLER SYSTEM.
- B. REQUIREMENTS: 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, REGULATIONS AND NFPA 13. 2. PROJECT SHALL BE COORDINATED WITH OTHER TRADES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL FIRE SUPPRESSION SYSTEM FOR THE TENANT SPACE AS REQUIRED. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED OR
- SHOWN. 3. PROVIDE HYDRAULIC CALCULATIONS AS NECESSARY TO OBTAIN CITY APPROVAL. 4. INSTALL CONCEALED TYPE HEADS WITH WHITE COVER PLATES TO MATCH CEILING OR WALL
- 5. INSTALLATION SHALL BE COORDINATED WITH ALL OTHER TRADES. 6. FINAL LOCATION OF ALL SPRINKLER HEADS SHALL BE SUBMITTED TO ARCHITECT FOR
- APPROVAL 7. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILE AT REQUEST OF OWNER.
- 13. CONTROL SYSTEM
- A. FURNISH AND INSTALL A COMPLETE SYSTEM OF ELECTRIC/ELECTRONIC CONTROL FOR THE SYSTEMS INSTALLED TO PROVIDE THE FOLLOWING SEQUENCES OF OPERATION.
- B. SYSTEMS SHALL BE INDEPENDENT AND STAND ALONE IN OPERATION AND SEQUENCE. SOME SYSTEMS SHALL BE INTEGRATED WITH BAS (BUILDING AUTOMATION SYSTEM) AS NOTED ON PI ANS C. SINGLE ZONE ROOFTOP UNITS
- 1. C.1. UNIT SHALL BE STARTED AND STOPPED FROM AN INDEPENDENT PROGRAMMABLE THERMOSTAT. ALL OPERATIONAL AND SAFETY INTERLOCKS SHALL BE WIRED INCLUDING UNIT SHUT DOWN FROM DUCT SMOKE DETECTORS FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH LOCAL CODE JURISDICTIONS.
- 2. C.2. UNITS SHALL MAINTAIN LOCAL SPACE TEMPERATURE BY THE USE OF ELECTRIC REFRIGERATION. ECONOMIZER OPERATION AND NATURAL GAS HEATING SECTIONS
- 3. C.3. UNITS SHALL MAINTAIN MINIMAL OUTDOOR AIR SETTINGS WHENEVER THEY ARE OPFRATIONAL 4. C.4. PROVIDE NIGHT SET BACK OPERATION TO MAINTAIN A REDUCED NIGHT OPERATION
- CONDITION UTILIZING THE SPACE SENSOR WHENEVER THE SYSTEM IS IN AN UNOCCUPIED PROGRAM
- D. ELECTRIC HEAT LOCAL ELECTRIC UNIT HEATERS SHALL BE CONTROLLED BY LOCAL SPACE THERMOSTATS WITH HEAT OFF; FAN AUTO AND CONTINUOUS SWITCHES OR SELF-CONTAINED UNIT SPACE THERMOSTATS AS APPROPRIATE.
- E. EXHAUST FANS 1. EXHAUST FANS TO BE CONTROLLED AS INDICATED ON THE SCHEDULES.
- 14 COMMISSIONING
- A. PROVIDE FOLLOWING DOCUMENTS TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY:
- 1. CONSTRUCTION DOCUMENTS INDICATING THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT 2. OPERATING AND MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT INCLUDING: MANUFACTURER'S LITERATURE (SHOP DRAWINGS) INCLUDING EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS ALONG WITH SELECTED OPTIONS,
- MANUFACTURERS OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, NAME AND ADDRESS OF AT LEAST ONE LOCAL SERVICE AGENCY, HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES WITH SETPOINT PERMANENTLY RECORDED ON CONTROL DRAWINGS, AND A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.
- 3. A SYSTEM BALANCING REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS PERFORMED DURING FINAL TESTING AND BALANCING.
- 4. FINAL TAB REPORT MUST BE UPLOADED TO TOWN OF CASTLE ROCK eTRAKIT SYSTEM AND BE AVAILABLE ON-SITE FOR INSPECTIONS.

B. A FINAL COMMISSIONING REPORT INCLUDING: RESULTS OF FUNCTIONAL PERFORMANCE TESTS, ISPOSITION OF DEFICIENCIES FOUND DURING TESTS INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED, AND THE FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

END

	DESIC	SN CRITERIA		ME	CHANICAL SHEET LIST
	JURISDICTION	CASTLE ROCK, CO	1	NUMBER	TITLE
	PROJECT ALTITUDE	5300'	1	M0.01	SHEET SPECIFICATIONS
	MECHANICAL CODE	2018 INTERNATIONAL MECHANICAL CODE		M0.02	MECHANICAL SCHEDULES & LEGENDS
	ENERGY CODE	2018 INTERATIONAL ENERGY	1	M1.01	FLOOR PLAN - MECHANICAL DEMO
	ENERGY GODE	CONSERVATION CODE		M2.01	FLOOR PLAN - MECHANICAL
DES	SIGN WEATHER STATION	ELBERT NMONUMENT (722155)		M2.02	ROOF PLAN - MECHANICAL
	CLIMATE ZONE	5B		M5.01	MECHANICAL DIAGRAMS
SUN	MMER DESIGN TEMP DB /	91°F / 61°F		M5.02	MECHANICAL DIAGRAMS
	MCWB			M6.01	MECHANICAL ENERGY CALCULATIONS
W	/INTER DESIGN TEMP DB	-2°F		SHEET TOTAL: 8	
INDO	OR COOLING SET POINT	76°F DB / 61°F WB			
INDC	OOR HEATING SET POINT	68°F			
	NUMBER OF FLOORS	1			



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ABBREVIATIONS	MECHAI	NICAL LEGEND
(D)DEMO(E)EXISTING(N)NEWAAVAIR ADMITTANCE VALVEADAREA DRAINAFFABOVE FINISH FLOORAHUAIR HANDLING UNITBBOILERBBBASEBOARD	CHWS 	 CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER RETURN HOT WATER SUPPLY HOT WATER RETURN REFRIGERANT LIQUID LINE REFRIGERANT SUCTION LINE
BF BOOSTER FAN BFP BACKFLOW PREVENTER BT BATH TUB		
BVBALL VALVECDCONDENSATE DRAINCFMCUBIC FEET PER MINUTECHCHILLER		
CS CLINICAL SINK CU CONDENSING UNIT CV CHECK VALVE CUH CABINET UNIT HEATER DCW DOMESTIC COLD WATER		CEILING RETURN AIR REGISTER
DF DRINKING FOUNTAIN DHW DOMESTIC HOT WATER DSN DOWN SPOUT NOZZLE EVC EVAPORATIVE COOLER		
ECELECTRICAL CONTRACTORECOEND OF LINE CLEANOUTEDHELECTRIC DUCT HEATEREFEXHAUST FAN		CEILING LINEAR SUPPLY/RETURN
ERU ENERGY RECOVERY UNIT ER EXISTING REMOVED ERR EXISTING REMOVED & RELOCATED EW EMERGENCY EYEWASH	EXHAUST DN	SIDEWALL SUPPLY/RETURN REGISTE
EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER F FURNACE	++++++ FLEXIBLE DUCT	
FCOFLOOR/GRADE CLEANOUTFCUFAN COIL UNITFDFLOOR DRAINFSFLOOR SINK	TYPE - NECK QTY@ CFM AIR DEVICE TAG	M MOTORIZED DAMPER
G GAS GC GENERAL CONTRACTOR GM GAS METER GPH GALLONS PER HOUR	MECHANICAL EQUIPMENT TAG MARK	BDD 🖂 BACK DRAFT DAMPER
GPMGALLONS PER MINUTEGRGAS REGULATORGUHGAS UNIT HEATER	TYPE PLAN CODE TAG #-# VRF FAN COIL/CONTROLLER EQUIPMENT TAG	F F SMOKE DAMPER
GWGREASE WASTEGWHGAS WATER HEATERHBHOSE BIBHPHEAT PUMP	SYSTEM BRANCH ID OUTDOOR UNIT SYSTEM	S FIRE SMOKE DAMPER
HX HEAT EXCHANGER IM ICE MAKER BOX LAV LAVATORY LS LAUNDRY SINK	TYPE -MARK PLUMBING/ELECTRICAL EQUIPMENT TAG FUTURE WORK	FS RADIATION DAMPER
MAU MAKE-UP AIR UNIT MC MECHANICAL CONTRACTOR MF MEASURE FLOW NIC NOT IN CONTRACT	DEMO WORK	
NC NORMALLY CLOSED NO NORMALLY OPEN NTS NOT TO SCALE OA OUTSIDE AIR	● (POC) POINT ● OF	
OP. BLD OPPOSED BLADE DAMPER ORD OVER FLOW ROOF DRAIN P PUMP PC PLUMBING CONTRACTOR	CONNECTION (POD) POINT OF DISCONNECTION	FAN COIL UNIT
PFT PARALLEL FAN TERMINAL PRV PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH PSIG PRESSURE GAUGE RA RETURN AIR	T THERMOSTAT S SENSOR - CO/CO2/NO2	
RAR RETURN AIR REGISTER RD ROOF DRAIN RE RELOCATE EXISTING	H HUMIDASTAT	FURNACE
REFL/SREFRIGERANT LIQUID/SUCTION LINERHRADIANT HEATERRTUROOF TOP UNITSASUPPLY AIRSUPPLY AIR		
SAR SUPPLY AIR REGISTER SF SUPPLY FAN SFT SERIES FAN TERMINAL SH SHOWER		PARALLEL FAN POWERED VAV BOX
SKSINKSOISAND/OIL INTERCEPTORSSSERVICE SINKT&PTEMPERATURE & PRESSURE		ПР VAV BOX
TD TRENCH DRAIN TYP TYPICAL UR URINAL VAV VARIABLE AIR VOLUME	IQ BALL VALVE Image: Harding the product of the p	
VAV VARIABLE AIR VOLUME VVT VARI TRAC WB WASHER BOX WC WATER CLOSET/WATER COLUMN WC0 WALL CLEANOUT COLUMN		

ROO	FTOP UNIT	SCHEDULE - I	DX/ELECTI	RIC CO	OLIN	IG & N	IATURA	L GAS
REMARKS								
(1) REFER	S TO COOLING CAPA	CITIES BASED ON 95F OADE	3, 80F EADB, 67F EAV	VB @ PROJEC	T ELEVA	TION.		
(2) PROVII	DE MANUFACTURER'	S 14" CURB SUITABLE FOR G	ROUND MOUNTING	WITH HORIZO	ONTAL DIS	SCHARGE, I	BELT DRIVE, HA	AL GUARDS, A
(3) PROVII	DE CONVENIENCE OL	JTLET.						
(4) PROVII	DE RETURN DUCT SM	IOKE DETECTOR.						
(5) PROVII	DE CO2 SENSOR IN SF	PACE FOR DEMAND CONTRO	OLLED VENTILATION	. MINIMUM OA	SETTING	G SHALL BE	10% OF TOTAL	SUPPLY AIR
(6) PROVII	DE FACTORY INSTALI	LED POWER EXHAUST WITH	SINGLE POINT POW	ER CONNECT	ION.			
(7) PROVII	DE STAINLESS STEEL	HEAT EXCHANGER.						
								HEATING CA
				MAX OA				
PLAN			SUPPLY AIRFLOW	AIRFLOW	BLWR	ESP.	GAS	INPUT
MARK	MANUFACTURER	MODEL #	(CFM)	(CFM)	(HP)	(inH20)	NAT/PROP	(MBH,SL)
RTU-1	CARRIER	48FCTM07F3M5-8U2A0	2300	250	1.6	1.0	NAT	150
RTU-2	CARRIER	48FCTM08F3M5-8U2A0	3000	900	1.8	1.0	NAT	224

	E STAINLESS STEEL I			MAX OA				HEATING CA	PACITY		LAT			PACITY							ELECTRI	CAL DATA	A		OPERATING	
	MANUFACTURER	MODEL #	SUPPLY AIRFLOW (CFM)			ESP. (inH20)	GAS NAT/PROP	INPUT (MBH,SL)	OUTPUT (MBH,ALT)	EAT (°F)	(°F) I	FF STG		l) (°F)			AWB (°F) R		FICIENCY STD/HI	IEER RATING	VOLT	PH	MCA	MOCP	WEIGHT (LBS)	REMARK
RTU-1 RTU-2	CARRIER CARRIER	48FCTM07F3M5-8U2A0 48FCTM08F3M5-8U2A0	2300 3000	250 900	1.6 1.8	1.0 1.0	NAT NAT	150 224	114 137.8	55 35	86.6	30 2 31 2		1 80	63 5	6 5	53 R	R-410A R-410A	STD STD	15 15	208 208	3 3	37 49	50 60	1000 1250	(1)(2)(3)(4) (1)(2)(3)(4)(5)(
RTU-3 RTU-4	CARRIER CARRIER	48FCTM08F3M5-8U2A0 48FCTM16F3M5-8UA20	3000 6000	1150 1700	1.8 3.04	1.0 1.0	NAT NAT	224 350	137.8 215.8	41 50		31 2 31 2	79.95 63.9 163 133					R-410A R-410A	STD STD	15 14.5	208 208	3	49 81	60 100	1250 2000	(1)(2)(3)(4)(5)(6) (1)(2)(3)(4)(5)(6)
												FA	N SCHEDL	ЛЕ												
												REMA	RKS:													
												(2) PF	LECTION BASED ON OVIDE WITH BACKD N SHALL BE INTERLO	RAFT DAMP	ER, EC MOTOR		F CAP.									
												(4) PF	OVIDE VIBRATION IS	SOLATION H	ANGERS, BACKI	DRAFT DA			d Hours.							
																All	RFLOW	FOR			ELECTRIC	CAL DATA			TOR OPERA	
												PLAI MAR EF-1	K MANUFACTURE PANASONIC	R MODE			CFM 75	ESP (inH20) 0.3	RPM 1112	SONES 0.4	VOLT 120	PH 1	MOTOR SIZ (HP) -	(WA	ZE WEIG .TTS) (LBS) 7 15	
											_	EF-2	GREENHECK	SQ-98	VG INLIN	IE	350	0.75	1692	12	120	1	1/4		- 58	(1)(4)(5)
													E SCHEDI	JLE												
											· /	Y FINISH T	PE & COLOR WITH A			UBMITTIN	IG FOR AF	PROVAL.								
																CONNE										
											PL MA		ANUFACTURER PRICE	MODEL # RCD	NOMINAL SIZE NOTED	SID (IN SAM	1)	FACE PAT		DAMPER MVD		ATERIAL STL		INISH Mill	NC MAX (dB) <35	REMARKS (1)(2)
											E		PRICE PRICE	SCD 520	24X24 NOTED	NOT SAM	ED ME	LVR LF		MVD MVD		STL STL	W N	/HITE MILL	<35 <35	(1)(2)
													PRICE PRICE PRICE	85 PDDR 85	8X8 24X24 10X10	NOT NOT SAM	ED	PERF PERF EGG	=	NONE NONE NONE		STL STL STL	W	MILL /HITE MILL	<35 <35 <35	(1) (1) (1)(2)
											(PRICE PRICE	530 ND	NOTED NOTED	SAN SAN	ИЕ	LF NOZZL		MVD MVD		STL STL	W	/HITE MILL	<35 <35	(1)(2)
															ELEC		C UNI	T HEA	ATER	SCHE	DULE	Ξ				
3 AIR		ONDENSING	UNIT SCH		(FOR	REF	RENCE	:)							REMARKS	S:									D INSTALLATIO	
, , , , , , , , , , , , , , , , , , ,					`			· /			_				. ,					TEMPERAT		0°F (ADJ) (۷.		ATING
			MINAL		LECTRICAL			OPERA							PLAN MARK	MF	FR	MODEL	ST	YIF	CONTR				WE	GHT
	_	CA	OLING PACITY	AMB. AIR				WEIG										MODEL					VOLT	PH	· ·	
ARRIER	38CKC-060-5	REFRIGERANT (R22		(°F) 95	VOLT. 208 208	PH 1	MCA MOCF 24.3 30 24.3 30	• (LB 22	S) F	REMARKS					EUH-1 EUH-2	BER BER	rko i	RC48203F	WALL F		NTEGRAL	TSTAT	VOLT 120 V 208 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER		CA REFRIGERANT (PACITY MBH) SEER 60 10	(°F)		PH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1) (LB	S) F)))	REMARKS							rko i	FRC1512F	WALL F	IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5	CA REFRIGERANT ((R22 R22 R22 R22 R22 R22	PACITY MBH) SEER 60 10 60 10 60 10 60 10 60 10	(°F) 95 95 95 95	208 208 208 208 208	1 1 1 1	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30	 (LB) 220 220 220 220 	S) F)))	REMARKS							rko i	FRC1512F	WALL F	IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5	CAREFRIGERANT(I)R22R22R222	PACITY MBH) SEER 60 10 60 10 60 10 60 10 60 10	(°F) 95 95 95 95	208 208 208 208 208	1 1 1 1	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30	(LB: 220 221 221 221 221 221	S) F))))						EUH-2	BER	RKO F	FRC1512F RC48203F	WALL F	IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER GGGAS	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE MODEL #	AIRFLOW (CFM)	PACITY MBH) SEER 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F ESP MOTOR SIZI (HP) (HP)	(°F) 95 95 95 95 95	208 208 208 208 EEREN		24.3 30 24.3 30 24.3 30 24.3 30 24.3 50 50 50 50 50 50 50 50 50 50 50 50 50 5	(LB: 220 221 221 221 221 221	S) F)))	:ONN. C((N	COOLING AF IBH) (inH	PD 120) V(EUH-2	A MCA	RKO RKO F OPEF WE (L	RATING IGHT BS)	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER G GAS FACTURER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE MODEL # 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 R22 R22 R22 R22 Image: Comparison of the second seco	PACITY MBH) SEER 60 10 9 10 9 10 9 10 10 10 10 10 10 10 10 10 10 10	(°F) 95 95 95 95 95 OR REI E FUEL NG NG	208 208 208 208 TEREN (MBH,SL) 132 132	1 1 1 1 NCE) OUTPL (MBH,EL 100 100	24.3 30 24.3 30 24.3 30 24.3 30 JT EFF LEV) % 92.5 92.5	COMB. INL	S) F))) ET FLUE C SIZ	:ONN. CC E Ø) C	DOLING COIL MODEL D5AXA06002	(N 4 4	BH) (inH 60 0. 60 0.	PD 120) V(8 8	EUH-2 ECTRICAL DATA DLTAGE PH 120 1 120 1	A MCA 24.3 24.3	RKO I RKO F OPEF WE U C 2 2	RATING EIGHT .200 200	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE MODEL # 58MXA 120-20	CA REFRIGERANT (() R22 R22 R22 R22 R22 R22 R22 () AIRFLOW (CFM) OA (CFM) (i) 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 70 10	(°F) 95 95 95 95 95 95 OR REI E FUEL	208 208 208 208 EEREN INPUT (MBH,SL) 132	1 1 1 1 NCE) оитри (МВН,ЕЦ 100	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF LV) % 92.5 92.5 92.5 92.5	COMB. INL	S) F))) ET FLUE C SIZ	CONN. CC E Ø) C C C	DOLING COIL MODEL	4 4 4	BH) (inH	PD	EUH-2 ECTRICAL DAT/ DLTAGE PH 120 1	A MCA 24.3	RKO I RKO F OPEF WE U 2 2 2 2 2	RATING IGHT BS) 200	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 92 Server 92.5 92.5 92.5 92.5 92.5 92.5 92.5	(LB: 221	S) F)	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	(N 4 4 4 4	IBH) (inH) 60 0. 60 0. 60 0. 60 0. 60 0.	PD 20) V(8 20 20 20 20 20 20 20	ECTRICAL DAT/ DLTAGE PH 120 1 120 1 120 1 120 1	A MCA 24.3 24.3 24.3	RKO I RKO F OPEF WE U 2 2 2 2 2	RATING IGHT BS) 200 200	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 92 Server 92.5 92.5 92.5 92.5 92.5 92.5 92.5	(LB: 221	S) F)	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	(N 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0.	PD 20) V(8 20 20 20 20 20 20 20	ECTRICAL DAT/ DLTAGE PH 120 1 120 1 120 1 120 1	A MCA 24.3 24.3 24.3	RKO I RKO F OPEF WE U 2 2 2 2 2	RATING IGHT BS) 200 200	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER G GAS	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 92.5 92.5 92.5 92.5 92.5 92.5 92.5	(LB: 221	S) F)	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	(N 4 4 4 4	IBH) (inH) 60 0. 60 0. 60 0. 60 0. 60 0.	PD 20) V(8 20 20 20 20 20 20 20	ECTRICAL DAT/ DLTAGE PH 120 1 120 1 120 1 120 1	A MCA 24.3 24.3 24.3	RKO I RKO F OPEF WE U 2 2 2 2 2	RATING IGHT BS) 200 200	WALL F	IEATER II IEATER II	NTEGRAL	TSTAT	120 V	PH 1 3	1,500	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER CARRIER RRIER RRIER RRIER RRIER RRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5	COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	S) F 0 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL CD5AXA06002 CD5AXA06002 CD5AXA06002 CD5AXA06002	(M 4 4 4 4 4 4	IBH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0.	P 120) VC 8 8 8 8 1 1 ED	EUH-2	A MCA 24.3 24.3 24.3 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2	RATING EIGHT BS) 200 200 200	REMARK		NTEGRAL NTEGRAL	TSTAT TSTAT	120 V 208 V	1 3	1,500 4,800	25 (1)(2) 25 (1)(2)
RRIER RRIER RRIER RRIER CTURER RIER RIER RIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 NCE) OUTPL (MBH,EL 100 100 100 100	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	COMB. INL SIZE (IN Ø) 3 3 3 3 3	S) F 0 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 NTTIL FLOC	(M 4 4 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7	BH) (inh 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0. 50 0. 50 0. SPACE TYF	P 120) VC 8 8 8 8 1 1 ED	EUH-2 ECTRICAL DAT/ 120 1 120 1 120 1 120 1 ULE	A MCA 24.3 24.3 24.3 24.3 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2	RATING IGHT BS) 200 200 200 200 200 200 200 200 200 20	REMARK	IEATER II IEATER II	NTEGRAL NTEGRAL	PANTS	120 V 208 V	1 3 Ez	1,500 4,800	25 (1)(2) 25 (1)(2) Ev Vot
ARRIER ARRIER ARRIER ARRIER ARRIER ACTURER RRIER RRIER RRIER RRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	(LB: 221 33 34 35 35 36	S) F 0 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	() 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	P 120) VC 8 8 8 8 1 1 ED	EUH-2 EUH-2 ECTRICAL DATA DITAGE PH 120 1 120 1 120 1 120 1 120 1 EUH-2 EUH-2	A MCA 24.3 24.3 24.3 24.3 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0	RATING IGHT BS) 200 200 200 200 200 200 200 200 200 20	WALL H WALL H WALL H # / 10 # / 10 32		VTEGRAL NTEGRAL	TSTAT TSTAT	120 V 208 V Vbz	1 3 Ez 0.8 0.8	1,500 4,800 Voz	Ev Vot 1 24 1 15
RIER RIER RIER RIER GAS TURER ER ER ER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR	(LB: 221 3	S) F 0 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	() 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	P 120) VC 8 8 8 8 - - - - - - - - - - - - -	EUH-2 EUH-2 ECTRICAL DATA DITAGE PH 120 1	A MCA 24.3 24.3 24.3 24.3 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H # / 10 # / 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		NTEGRAL NTEGRAL	TSTAT TSTAT	120 V 208 V 19 Vbz	1 3 Ez 0.8 0.8 0.8	1,500 4,800 Voz	Ev Vot 1 24 1 30 1 98
RRIER RRIER RRIER GAS CTURER RIER RIER RIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5	(LB: 221 3	S) F 0 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	() 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 7000000000000000000000000000000000000	P 120) VC 8 8 8 8 - - - - - - - - - - - - -	EUH-2 ECTRICAL DAT/ DLTAGE PH 120 1 120 1 1 120 1 1 120 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A MCA 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 10	RATING IGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H # / 10 # / 10 # / 10 2	IEATER II IEATER II S	VTEGRAL NTEGRAL # OCCUF 0 0 0	TSTAT TSTAT	120 V 208 V Vbz 19 12 24	1 3 	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ	Ev Vot 1 24 1 15 1 30 1 98 1 46 JIRED 213
ARRIER ARRIER ARRIER ARRIER ARRIER RIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR	(LB: 221 33 33 3	S) F D - D - D - D - D - D - D - D - D - D - D - D - D - ET FLUE C SIZ (IN G 3 3) AIR 3 AIR	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002 D5AXA06002	() 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	P 120) VC 8 8 8 8 - - - - - - - - - - - - -	EUH-2 EUH-2 ECTRICAL DATA DITAGE PH 120 1	A MCA 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H # / 10 # / 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IEATER II IEATER II S	VTEGRAL NTEGRAL # OCCUF 0 0 0	TSTAT TSTAT	120 V 208 V 19 Vbz	1 3 	1,500 4,800 Voz Voz	Ev Vot 1 24 1 15 1 30 1 98 1 46 JIRED 213
RRIER RRIER RRIER RRIER CTURER RIER RIER RIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR 34 - HALL 35 - CLASSR	(LB: 221 3	S) F D - D - D - D - D - D - D - D - D - D - D - D - D - ET FLUE C SIZ (IN G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 LEVE	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. SPACE TYF Tridors rage rooms rage rooms ssrooms (age 9 p p rridors ssrooms (age 9 p	PD VC 8 1 8 1 8 1 8 1 8 1 9 1 <td< td=""><td>EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1</td><td>A MCA 24.3</td><td>RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 0 10 0</td><td>RATING EIGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 5 2 2 0 2 0</td><td>IEATER II IEATER II IEATER II S </td><td>NTEGRAL NTEGRAL <u>* OCCUF</u> 0 0 0 0 6</td><td>PANTS</td><td>120 V 208 V 208 V</td><td>1 3 Ez 0.8 0.8 0.8 0.8 0.8</td><td>1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI</td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 1 24 1 15 1 30 1 98 1 46 JIRED 213 2LIED 250</td></td<>	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1	A MCA 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 0 10 0	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 5 2 2 0 2 0	IEATER II IEATER II IEATER II S	NTEGRAL NTEGRAL <u>* OCCUF</u> 0 0 0 0 6	PANTS	120 V 208 V 208 V	1 3 Ez 0.8 0.8 0.8 0.8 0.8	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI	25 (1)(2) 25 (1)(2) 25 (1)(2) 1 24 1 15 1 30 1 98 1 46 JIRED 213 2LIED 250
RIER RIER RIER RIER RER CURER RER RER RER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR 34 - HALL 33 35 - CLASSR 38 - CLASSR 38 - CLASSR 38 - CLASSR	0 (LB: 221 3	S) F D - D - D - D - D - D - D - D - D - D - D - D - D - ET FLUE C SIZ (IN G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL CD5AXA06002 CD5AXA00 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <td< td=""><td>EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 100 100 200 153 617 344 344</td><td>A MCA 24.3</td><td>KO I KO F KO F OPEF WE (L 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 10 Q 10 Q 10</td><td>RATING EIGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>IEATER II IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13</td><td>PANTS</td><td>120 V 208 V 208 V</td><td>1 3 Ez 0.8 0.8 0.8 0.8 0.8 0.8</td><td>1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 201 214 214 214</td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 24 1 15 1 30 1 98 1 46 JIRED 213 2LIED 250 1 214 1 214 1 214</td></td<>	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 100 100 200 153 617 344 344	A MCA 24.3	KO I KO F KO F OPEF WE (L 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 10 Q 10 Q 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13	PANTS	120 V 208 V 208 V	1 3 Ez 0.8 0.8 0.8 0.8 0.8 0.8	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 201 214 214 214	25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 24 1 15 1 30 1 98 1 46 JIRED 213 2LIED 250 1 214 1 214 1 214
RRIER RRIER RRIER RRIER CTURER IER IER IER IER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 31 - STORAC 33 - CLASSR 34 - HALL 35 - CLASSR 36 - CLASSR	0 (LB: 221 3	S) F D - D - D - D - D - D - D - D - D - D - D - D - D - ET FLUE C SIZ (IN G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 LEVEI LEVEI LEVEI LEVEI LEVEI	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. SPACE TYF Tridors rage rooms rage rooms ssrooms (age 9 p rridors ssrooms (age 9 p ssrooms (age 9 p	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <td< td=""><td>EUH-2 EUH-2 EUH-2 ECTRICAL DATA DITAGE PH 120 1 120 1 120 1 120 1 1 2 EUH-2 E E E E E E E E E E E E E E E E E E E</td><td>A MCA 24.3</td><td>RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 10 10 10</td><td>RATING IGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>IEATER II IEATER II IEATER II IEATER II IS I II I II II II II II II III III III IIII III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL # OCCUF 0 0 0 0 0 0 12 13</td><td>PANTS</td><td>120 V 208 V 19 19 12 24 78 37 161 171</td><td>1 3 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8</td><td>1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 214 214 214 214 214 214 214 214 214</td><td>Ev Vot 1 24 1 30 1 98 1 46 JIRED 213 250 1 201 1 214 1 214 1 214 1 198</td></td<>	EUH-2 EUH-2 EUH-2 ECTRICAL DATA DITAGE PH 120 1 120 1 120 1 120 1 1 2 EUH-2 E E E E E E E E E E E E E E E E E E E	A MCA 24.3	RKO I RKO F OPEF WE (L 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 10 10 10 10	RATING IGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IEATER II IEATER II IEATER II IEATER II IS I II I II II II II II II III III III IIII III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTEGRAL NTEGRAL # OCCUF 0 0 0 0 0 0 12 13	PANTS	120 V 208 V 19 19 12 24 78 37 161 171	1 3 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 214 214 214 214 214 214 214 214 214	Ev Vot 1 24 1 30 1 98 1 46 JIRED 213 250 1 201 1 214 1 214 1 214 1 198
ARRIER ARRIER ARRIER ARRIER ARRIER B GAS	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR 34 - HALL 33 35 - CLASSR 38 - CLASSR 38 - CLASSR	0 (LB: 221 3	S) F D - D - D - D - D - D - D - D - D - D - D - D - D - ET FLUE C SIZ (IN G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL CD5AXA06002 CD5AXA00 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <td< td=""><td>EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 100 100 200 153 617 342 344 344</td><td>A MCA 24.3</td><td>KO I KO F KO F OPEF WE (L 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 10 Q 10 Q 10</td><td>RATING EIGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>IEATER II IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13</td><td>PANTS</td><td>120 V 208 V 208 V</td><td>1 3 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 201 214 214 214</td><td>Ev Vot 1 24 1 15 1 30 1 98 1 46 JIRED 213 PLIED 250 1 201 1 214 1 198 JIRED 828</td></td<>	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 100 100 200 153 617 342 344 344	A MCA 24.3	KO I KO F KO F OPEF WE (L 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 10 Q 10 Q 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13	PANTS	120 V 208 V 208 V	1 3 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL SUPI 201 214 214 214	Ev Vot 1 24 1 15 1 30 1 98 1 46 JIRED 213 PLIED 250 1 201 1 214 1 198 JIRED 828
CARRIER CARRIER CARRIER CARRIER CARRIER RRIER RRIER RRIER RRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JI EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 31 - STORAC 33 - CLASSR 34 - HALL 35 - CLASSR 39 - CLASSR 39 - CLASSR	(LB: 221 3	S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0. SPACE TYF Tridors rage rooms rage rooms rage rooms ssrooms (age 9 p rridors ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 100 200 153 617 344 344 344 320	A MCA 24.3 24.3 24.3 24.3 24.3 C C C	KO I KO F OPEF WE (L 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 10 I 10 I 10 I 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H #/10 #/10 #/10 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4 5 5 6 7 6 7 6 7 7 7 7 7 7 7 8 8 8 9 10 10 10 10 10 11 12 13 <t< td=""><td>IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12</td><td>TSTAT TSTAT</td><td>120 V 208 V 208 V</td><td>1 3 Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.</td><td>1,500 </td><td>25 (1)(2 25 (1)(2 25 (1)(2 25 (1)(2 1 24 1 15 1 30 1 98 1 46 JIRED 213 211ED 250 1 214 1 11 213 213 214 1 1 214 1 213 211ED 250 1 201 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 <t< td=""></t<></td></t<>	IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12	TSTAT TSTAT	120 V 208 V 208 V	1 3 Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	1,500	25 (1)(2 25 (1)(2 25 (1)(2 25 (1)(2 1 24 1 15 1 30 1 98 1 46 JIRED 213 211ED 250 1 214 1 11 213 213 214 1 1 214 1 213 211ED 250 1 201 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 214 1 <t< td=""></t<>
ARRIER ARRIER ARRIER ARRIER ARRIER B GAS	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 31 - STORAC 33 - CLASSR 34 - HALL 33 35 - CLASSR 38 - CLASSR 38 - CLASSR	(LB: 221 3	S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL CD5AXA06002 CD5AXA00 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5 CD5	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 100 100 200 153 617 342 344 344	A MCA 24.3 24.3 24.3 24.3 24.3 C C C	KO I KO F KO F OPEF WE (L 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 2 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 0 Q 10 Q 10 Q 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H #/10 #/10 #/10 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4 5 5 6 7 6 7 6 7 7 7 7 7 7 7 8 8 8 9 10 10 10 10 10 11 12 13 <t< td=""><td>IEATER II IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13</td><td>TSTAT TSTAT</td><td>120 V 208 V 208 V</td><td>1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>1,500 </td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 213 21 250 1 213 21 250 1 214 1 214 1 214 1 214 1 213 211 250 1 201 1 214 1 213 211 250 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007</td></t<>	IEATER II III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 12 13 13	TSTAT TSTAT	120 V 208 V 208 V	1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,500	25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 213 21 250 1 213 21 250 1 214 1 214 1 214 1 214 1 213 211 250 1 201 1 214 1 213 211 250 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007
CARRIER CARRIER CARRIER G GAS IFACTURER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 60 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JI EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 31 - STORAC 33 - CLASSR 34 - HALL 35 - CLASSR 39 - CLASSR 39 - CLASSR	(LB: 221 3	S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN G 3 3 AIR 3 YPE 0 O 0 O 0 YPE 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0	CONN. CC E Ø) C C C C C C	DOLING COIL MODEL D5AXA06002 LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0. SPACE TYF Tridors rage rooms rage rooms rage rooms ssrooms (age 9 p rridors ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 <	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 100 200 153 617 344 344 344 320	A MCA 24.3 24.3 24.3 24.3 24.3 C C C	KO I KO F OPEF WE (L 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 10 I 10 I 10 I 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H #/10 #/10 #/10 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4 5 5 6 7 6 7 6 7 7 7 7 7 7 7 8 8 8 9 10 10 10 10 10 11 12 13 <t< td=""><td>IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12</td><td>TSTAT TSTAT</td><td>120 V 208 V 208 V</td><td>1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL REQ TOTAL SUPI 214 214 198 TOTAL SUPI</td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 213 21 213 21 250 1 214 1 214 1 214 1 214 1 214 1 201 1 201 1 201 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007</td></t<>	IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12	TSTAT TSTAT	120 V 208 V 208 V	1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,500 4,800 4,800 Voz Voz 24 15 30 98 46 TOTAL REQ TOTAL REQ TOTAL SUPI 214 214 198 TOTAL SUPI	25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 213 21 213 21 250 1 214 1 214 1 214 1 214 1 214 1 201 1 201 1 201 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007
CARRIER CARRIER CARRIER CARRIER G GAS	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 10	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JI EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 31 - STORAC 33 - CLASSR 34 - HALL 35 - CLASSR 39 - CLASSR 39 - CLASSR	(LB: 221 3 </td <td>S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN G 3 3 AIR 3 YPE 0 O 0 O 0 O 0 YPE 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0</td> <td></td> <td>DOLING COIL MODEL D5AXA06002 LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI</td> <td>(M 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0. SPACE TYF Tridors rage rooms rage rooms rage rooms ssrooms (age 9 p rridors ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p</td> <td>PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 9 1 <</td> <td>EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 100 200 153 617 344 344 344 320</td> <td>A MCA 24.3 24.3 24.3 24.3 24.3 C C C</td> <td>KO I KO F OPEF WE (L 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 10 I 10 I 10 I 10</td> <td>RATING EIGHT BS) 200 200 200 200 200 200 200 20</td> <td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 3 2 3 4 7 6 7 6 7 6 7 6 7 7 8 9 9 9 10 10 10 10 110 110 12 10 1</td> <td>IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II</td> <td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12</td> <td>PANTS</td> <td>120 V 208 V 208 V</td> <td>1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>1,500 </td> <td>25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 (1)(2) 1 213 21 213 21 250 1 214 1 214 1 214 1 214 1 214 1 201 1 201 1 201 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007</td>	S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN G 3 3 AIR 3 YPE 0 O 0 O 0 O 0 YPE 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0		DOLING COIL MODEL D5AXA06002 LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI LEVEI	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. 50 0. SPACE TYF Tridors rage rooms rage rooms rage rooms ssrooms (age 9 p rridors ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p ssrooms (age 9 p	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 9 1 <	EUH-2 ECTRICAL DAT/ DITAGE PH 120 1 120 1 120 1 120 1 120 1 120 1 100 200 153 617 344 344 344 320	A MCA 24.3 24.3 24.3 24.3 24.3 C C C	KO I KO F OPEF WE (L 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 2 I 10 I 10 I 10 I 10	RATING EIGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 3 2 3 4 7 6 7 6 7 6 7 6 7 7 8 9 9 9 10 10 10 10 110 110 12 10 1	IEATER II IEATER II IEATER II S I S I S I S I S I S I OOOSF # OOOSF # OOOSF I II II OOOSF # OO I OO I OO I OO I OO I OO I II III II	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 12 13 13 13 12	PANTS	120 V 208 V 208 V	1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,500	25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 (1)(2) 1 (1)(2) 1 213 21 213 21 250 1 214 1 214 1 214 1 214 1 214 1 201 1 201 1 201 1 201 1 1007 JIRED 828 900 1 1 1007 JIRED 1007
CARRIER CARRIER CARRIER G GAS FACTURER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 FURNACE FURNACE 58MXA 120-20 58MXA 120-20 58MXA 120-20	CA REFRIGERANT (() R22 () AIRFLOW OA (CFM) () 1635 N/A 1635 N/A 1635 N/A	PACITY MBH) SEER 60 10 0.8 3/4 0.8 3/4	(°F) 95 95 95 95 95 OR REI FUEL NG NG NG	208 208 208 208 -EREN (MBH,SL) 132 132 132	1 1 1 1 1 1 1 1 1 1 1 1 1 1	24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 24.3 30 JT EFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 25 - HALL 31 - STORAC 27 - STORAC 33 - CLASSR 34 - HALL 33 35 - CLASSR 39 - CLASSR 39 - CLASSR 39 - CLASSR 40 - CLASSRC 30 0 - CLASSRC 30	(LB: 221 3 </td <td>S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN G 3 3 AIR 3 YPE 0 O 0 O 0 O 0 YPE 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0</td> <td></td> <td>DOLING COIL MODEL D5AXA06002 LEVE</td> <td>(M 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. SON SCI 0. SPACE TYF Tridors rage rooms rage rooms rage rooms (age 9 p) ssrooms (age 9 p) ssrooms (age 9 p)</td> <td>PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 9 1 9 1 1 1 <td< td=""><td>EUH-2 EUH-2 EUH-2 ECTRICAL DAT DITAGE PH 120 1 120 1 120 1 120 1 1 2 ULE AREA (S 315 100 200 153 617 100 200 153 617 344 344 344 320 1710</td><td>A MCA 24.3 24.3 24.3 24.3 24.3 3F) 6F) 6 7 7 7 7 7 7 7 7 7 7 7 7 7</td><td>KO I KO F KO F OPEF WE U Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I I I</td><td>RATING IGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 3 3 4 5 5 6 7 6 7 7</td><td>IEATER II IEATER II III III III IIII III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>PANTS</td><td>120 V 208 V 208 V 208 V 37 122 24 78 37 121 122 24 78 37 1171 171 171 171 171 171 37</td><td>1 3 </td><td>1,500 </td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 250 1 24 1 15 1 30 1 98 1 250 1 201 1 213 216 900 1 214 1 214 1 1007 21ED 900 1 1007 21ED 105 1</td></td<></td>	S) F D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 ET FLUE C SIZ (IN G 3 3 AIR 3 YPE 0 O 0 O 0 O 0 YPE 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0		DOLING COIL MODEL D5AXA06002 LEVE	(M 4 4 4 4 4 4 4 4 4 4 4 4 4	BH) (inH 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 50 0. SON SCI 0. SPACE TYF Tridors rage rooms rage rooms rage rooms (age 9 p) ssrooms (age 9 p) ssrooms (age 9 p)	PD VC 8 1 8 1 8 1 8 1 8 1 8 1 9 1 9 1 9 1 1 1 <td< td=""><td>EUH-2 EUH-2 EUH-2 ECTRICAL DAT DITAGE PH 120 1 120 1 120 1 120 1 1 2 ULE AREA (S 315 100 200 153 617 100 200 153 617 344 344 344 320 1710</td><td>A MCA 24.3 24.3 24.3 24.3 24.3 3F) 6F) 6 7 7 7 7 7 7 7 7 7 7 7 7 7</td><td>KO I KO F KO F OPEF WE U Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I I I</td><td>RATING IGHT BS) 200 200 200 200 200 200 200 20</td><td>WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 3 3 4 5 5 6 7 6 7 7</td><td>IEATER II IEATER II III III III IIII III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>PANTS</td><td>120 V 208 V 208 V 208 V 37 122 24 78 37 121 122 24 78 37 1171 171 171 171 171 171 37</td><td>1 3 </td><td>1,500 </td><td>25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 250 1 24 1 15 1 30 1 98 1 250 1 201 1 213 216 900 1 214 1 214 1 1007 21ED 900 1 1007 21ED 105 1</td></td<>	EUH-2 EUH-2 EUH-2 ECTRICAL DAT DITAGE PH 120 1 120 1 120 1 120 1 1 2 ULE AREA (S 315 100 200 153 617 100 200 153 617 344 344 344 320 1710	A MCA 24.3 24.3 24.3 24.3 24.3 3F) 6F) 6 7 7 7 7 7 7 7 7 7 7 7 7 7	KO I KO F KO F OPEF WE U Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I Z I I I	RATING IGHT BS) 200 200 200 200 200 200 200 20	WALL H WALL H WALL H WALL H # / 10 # / 10 # / 10 # / 10 2 3 3 4 5 5 6 7 6 7 7	IEATER II III III III IIII III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NTEGRAL NTEGRAL * OCCUF 0 0 0 0 0 0 0 0 0 0 0 0 0	PANTS	120 V 208 V 208 V 208 V 37 122 24 78 37 121 122 24 78 37 1171 171 171 171 171 171 37	1 3 	1,500	25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 25 (1)(2) 1 250 1 24 1 15 1 30 1 98 1 250 1 201 1 213 216 900 1 214 1 214 1 1007 21ED 900 1 1007 21ED 105 1

		- HEAT EXCHANGER.		MAX OA			Н	IEATING CA	PACITY		LAT		NET COO		CITY							-	ELECTRICA	AL DATA			OPERATIN	3
PLAN MARK RTU-1	MANUFACTURER CARRIER	MODEL # 48FCTM07F3M5-8U2A0	SUPPLY AIRFLOW (CFM) 2300			nH20) NA	GAS AT/PROP	INPUT (MBH,SL) 150	OUTPUT (MBH,ALT)	EAT (°F) 55	(°F) 99	EFF 80	TOTAL (MBH) 2 64.64	SENS (MBH) 52.95	EADB (°F) 80	EAWB (°F) 63	LADB (°F) 54	LAWB (°F) 53	REFR R-410		D/HI	IEER RATING 15			NCA 37	MOCP 50	WEIGHT (LBS) 1000	REMARK (1)(2)(3)(4)
RTU-2 RTU-3	CARRIER CARRIER	48FCTM08F3M5-8U2A0 48FCTM08F3M5-8U2A0	3000 3000	900 1150	1.8 1.8	1.0	NAT NAT	224 224	137.8 137.8	35 41	86.6 91	81 81	2 79.95 2 79.95	63.91 63.91	80 85.6	63 63	56 55	53 53	R-410 R-410	0A ST	D	15 15	208 208	3	49 49	60 60	1250 1250	(1)(2)(3)(4)(5)((1)(2)(3)(4)(5)(6)
RTU-4	CARRIER	48FCTM16F3M5-8UA20	6000	1700	3.04	1.0	NAT	350	215.8	50	90	81	2 163	133	80	63	55	53	R-410	0A ST	D	14.5	208	3	81	100	2000	(1)(2)(3)(4)(5)(6)
												_	AN SCH	IEDUL	E													
												(1	EMARKS:) SELECTION B 2) PROVIDE WIT						P									
												(3	B) FAN SHALL BI	INTERLOC	KED WITH	LIGHT SW	/ITCH.			OTOR.								
												(5	5) FAN TO OPPE	RATE ON TI			CONTINU	DUSLY DU			OURS.			L DATA				
												1		ACTURER	MODEL		STYLE	CFM		SP H20)	RPM	SONES	VOLT	PH MC	OTOR SIZ (HP)			GHT
														SONIC NHECK	FV-0511 SQ-98-		CEILING INLINE	75 350			1112 1692	0.4 12	120 120	1	- 1/4		7 1: - 5	()()()
											AIF	R DEV	ICE SCH	IEDUI	LE													
											<u>REMA</u> (1) VE		H TYPE & COLO	R WITH AR	CHITECT /	ID PRIOR	TO SUBM	TTING FO		OVAL.								
											(2) CO	DORDINATE	E FRAME SELEC		FINAL RCF	.									1			
												PLAN MARK	MANUFACTU	RER N	NODEL #	NOMIN SIZE	AL	NNECTIOI SIDE (IN)		CE PATTER	N C	AMPER	MAT	ERIAL	FI	NISH	NC MAX (dB)	REMARKS
												A B C	PRICE PRICE PRICE		RCD SCD 520	NOTE 24X2 NOTE	4	SAME NOTED SAME		LVR LVR LF		MVD MVD MVD	S	TL TL TL	W	MILL /HITE MILL	<35 <35 <35	(1)(2)
												D E	PRICE PRICE PRICE		85 PDDR	8X8 24X24	,	NOTED NOTED		PERF		NONE NONE	S	ITL ITL	N	MILL /HITE	<pre><35 <35 <35</pre>	(1)
												F G	PRICE PRICE PRICE		85 530 ND	10X10 NOTE NOTE	D	SAME SAME SAME		EGG LF NOZZLE		NONE MVD MVD	S	TL TL TL	W	MILL /HITE MILL	<35 <35 <35	(1)(2) (1)(2)
													FNICE		ND				I									(1)
					(=						_								JINIT	HEAT	ERC		DULE					
G AIR	COOLED	CONDENSING	UNIT SCH	EDULE	(FOR I	KEFER	ENCE))								, , ,							FY MOUNTI JRE AT 60°F				D INSTALLATIC	N.
		C	DMINAL DOLING PACITY		ELECTRICAL	DATA		OPERA									LAN ARK	MFR	мс	DDEL	STYL	F	CONTROL		CTRICAL		W	RATING Eight LBS) Remark
NUFACTURI	ER MODEL #		(MBH) SEER	AMB. AIR (°F)	VOLT.	РН МСА	А МОСР	WEIG (LB		REMARKS	;					EL	JH-1	BERKO		C1512F	WALL HE		ITEGRAL TS		20 V	1	1,500	25 (1)(2)
	38CKC-060-5	R22	60 10	95	208	1 24.3	3 30	220								EL	JH-2	BERKO	FRC4	48203F	WALL HE	ATER IN	ITEGRAL TS		208 V	3	4,800	25 (1)(2)
CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5	R22 R22 R22 R22	60 10 60 10 60 10 60 10	95 95 95 95	208 208 208	1 24.3 1 24.3	3 30 3 30	220	0 0							EU	JH-2	BERKO	FRC4	48203F	WALL HE	ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5	R22 R22 R22 R22 R22	60 10 60 10 60 10 60 10 60 10	95 95 95 95	208 208 208 208	1 24.3 1 24.3 1 24.3 1 24.3	3 30 3 30	220	0 0							EU	JH-2	BERKO	FRC ²	48203F	WALL HE	ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5	R22 R22 R22 R22	60 10 60 10 60 10 60 10 60 10	95 95 95 95	208 208 208 208	1 24.3 1 24.3 1 24.3 1 24.3	3 30 3 30	220	0 0								JH-2	BERKO	FRC ²	48203F	WALL HE	ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5	R22 R22 R22 R22 E/DX UNIT SC	60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F ESP MOTOR SIZE	95 95 95 95	208 208 208 208 FEREN	1 24.3 1 24.3 1 24.3 CE)	3 30 3 30 3 30 3 30	220 220 220 220 220	0 0 0 ET FLUE C SIZI	E		ТО	TAL COOLING (MBH)	APD (inH20		ECTRICAL	DATA		OPERATI	ING		ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER IUFACTURER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4	95 95 95 95 OR RE FUEL NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100 100 100	3 30 3 30 3 30 3 30 EFF % 92.5 92.5	220 220 220 220	0	E Ø) (MODEL CD5AXA06 CD5AXA06	L TO 50024 50024	(MBH) 60 60	(inH20 0.8 0.8)) VO	ECTRICAL LTAGE F 120 120	DATA PH N 1 2 1 2	ICA 24.3 24.3	OPERAT WEIGH (LBS) 200 200	ING IT) R	EMARKS	ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 5 FURNAC	R22 R22 R22 R22 R22 R22 Barrier AIRFLOW (CFM) 1635	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 MOTOR SIZE inH2O) (HP) 0.8 3/4	95 95 95 95 OR RE FUEL NG	208 208 208 208 FEREN INPUT (MBH,SL) 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100	3 30 3 30 3 30 3 30 EFF % 92.5	220 220 220 220 COMB. INL SIZE (IN Ø) 3	0 0 0 ET FLUE C SIZI	E Ø) ((MODEL CD5AXA06	L TO 50024 50024 50024	(MBH) 60	(inH20 0.8)) VO	ECTRICAL LTAGE F 120	DATA PH N 1 2 1 2 1 2	ICA 24.3	OPERATI WEIGH (LBS) 200	ING IT) R			ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER MG GAS NG GAS NUFACTURER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100 100 100 100 100 100	3 30 3 30 3 30 3 30 4 8 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	COMB. INL SIZE (IN Ø) 3 3 3 3	0 0 0 ET FLUE C SIZI (IN 9 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06	L 70 50024 50024 50024 50024 50024	(MBH) 60 60 60 60	(inH20 0.8 0.8 0.8 0.8)) VO	ECTRICAL LTAGE F 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3	OPERATI WEIGH (LBS) 200 200 200	ING IT) R		ATER IN	ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER MG GAS NG GAS NUFACTURER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100 100 100 100 100 100	3 30 3 30 3 30 3 30 4 8 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	COMB. INL SIZE (IN Ø) 3 3 3 3	0 0 0 ET FLUE C SIZI (IN 9 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06	L 70 50024 50024 50024 50024 50024	(MBH) 60 60 60	(inH20 0.8 0.8 0.8 0.8)) VO	ECTRICAL LTAGE F 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3	OPERATI WEIGH (LBS) 200 200 200	ING IT) R			ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER MG GAS NG GAS NUFACTURER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100 100 100 100 100 100	3 30 3 30 3 30 3 30 4 8 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	COMB. INL SIZE (IN Ø) 3 3 3 3	0 0 0 ET FLUE C SIZI (IN 9 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06	L 70 50024 50024 50024 50024 50024	(MBH) 60 60 60 60	(inH20 0.8 0.8 0.8 0.8)) VO	ECTRICAL LTAGE F 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3	OPERATI WEIGH (LBS) 200 200 200	ING IT) R			ITEGRAL TS			3	4,800	
CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT MBH,ELEV) 100 100 100 100 100 100	3 30 3 30 3 30 3 30 4 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 ET FLUE C SIZI (IN Ø 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06	L 50024 50024 50024 50024	(MBH) 60 60 60 60	(inH20 0.8 0.8 0.8 0.8		ECTRICAL LTAGE F 120 120 120 120 120	DATA PH N 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3	OPERATI WEIGH (LBS) 200 200 200	ING IT) R	EMARKS			STAT 2	208 V			25 (1)(2)
CARRIER CARRIER CARRIER CARRIER G GAS FACTURER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT 100 100 100 100 100 100 100 100 100 100 100 100 100	3 30 3 30 3 30 3 30 3 30 FFF % 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5	220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06	L 50024 50024 50024 50024 50024	(MBH) 60 60 60 60 TION S	(inH20 0.8 0.8 0.8 0.8		ECTRICAL 120 120 120 120 120 120 ARE	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3	OPERATI WEIGH (LBS) 200 200 200 200	ING IT R	EMARKS		OCCUPA	NTS	Vbz	Ez	Voz	25 (1)(2)
CARRIER CARRIER CARRIER CARRIER CARRIER RRIER RRIER RRIER RRIER RRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT (MBH,ELEV) 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 101 100 100 100 100 100 100 100	3 30 3 30 3 30 3 30 4 5 5 5 5 92.5 9 2.5 9 3 9 3 9 3 9 3 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5	220 220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI	L 50024	(MBH) 60 60 60 60 TON S SPA Corridors Storage roor	(inH20 0.8 0.8 0.8 0.8 0.8 CE TYPE		ECTRICAL 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 () () ()	OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0	ING IT R 	EMARKS # / 100		OCCUPA 0 0	NTS N	Vbz 19 12	Ez 0.8 0.8	Voz 24 15	25 (1)(2) Ev Vot
RRIER RRIER RRIER RRIER CTURER RIER RIER RIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT (MBH,ELEV) 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 101 100 100 100 101 100 100 100 101 100 100 100 101 100 102 100 103 100	3 30 3 30 3 30 3 30 3 30 4 92.5 92.5 92.5 <td>220 220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>E Ø) C C C</td> <td>MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC</td> <td>L 50024</td> <td>(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor</td> <td>(inH20 0.8 0.8 0.8 0.8 SCH</td> <td></td> <td>ECTRICAL LTAGE F 120 120 120 120 120 120 120 120</td> <td>DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2</td> <td>ICA 24.3 24.3 24.3 24.3 24.3 () () () () () ()</td> <td>OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0</td> <td>ING IT R 0.06 0.12 0.12 0.12</td> <td>EMARKS # / 100</td> <td>0SF #</td> <td>OCCUPA</td> <td>NTS N</td> <td>Vbz 19 12 24 78</td> <td>Ez 0.8 0.8 0.8 0.8</td> <td>Voz 24 15 30 98</td> <td>25 (1)(2) Ev Vot 1 24 1 5 1 30 1 98</td>	220 220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC	L 50024	(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor	(inH20 0.8 0.8 0.8 0.8 SCH		ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 () () () () () ()	OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R 0.06 0.12 0.12 0.12	EMARKS # / 100	0SF #	OCCUPA	NTS N	Vbz 19 12 24 78	Ez 0.8 0.8 0.8 0.8	Voz 24 15 30 98	25 (1)(2) Ev Vot 1 24 1 5 1 30 1 98
ARRIER ARRIER ARRIER ARRIER ARRIER RRIER RRIER RRIER RRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT (MBH,ELEV) 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 101 CL127 -	3 30 3 30 3 30 3 30 3 30 4 92.5 92.5 92.5 <td>220 220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>0 0 0 0 ET FLUE C SiZi (IN G 3 3 3 3 3 3 3 3 3 3 3 5 5 7 7 7 7 7 7 7</td> <td>E Ø) C C C</td> <td>MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC</td> <td>L 50024 50024 50024 50024 50024 50024 50024 50024 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1</td> <td>(MBH) 60 60 60 TION SPA Corridors Storage roor Storage roor</td> <td>(inH20 0.8 0.8 0.8 0.8 SCH</td> <td></td> <td>ECTRICAL LTAGE F 120 120 120 120 120 120 120 120</td> <td>DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2</td> <td>ICA 24.3 24.3 24.3 24.3 24.3 () () () () () () ()</td> <td>OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0</td> <td>ING IT R 0.06 0.12 0.12 0.12</td> <td>EMARKS</td> <td>0SF #</td> <td>OCCUPA 0 0 0 0</td> <td>NTS N</td> <td>Vbz 19 12 24</td> <td>Ez 0.8 0.8 0.8 0.8 0.8 0.8</td> <td>Voz 24 15 30 98 46 TOTAL REC</td> <td>25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 2UIRED 213</td>	220 220 220 220 COMB. INL SIZE (IN Ø) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 ET FLUE C SiZi (IN G 3 3 3 3 3 3 3 3 3 3 3 5 5 7 7 7 7 7 7 7	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC	L 50024 50024 50024 50024 50024 50024 50024 50024 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1	(MBH) 60 60 60 TION SPA Corridors Storage roor Storage roor	(inH20 0.8 0.8 0.8 0.8 SCH		ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 () () () () () () ()	OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R 0.06 0.12 0.12 0.12	EMARKS	0SF #	OCCUPA 0 0 0 0	NTS N	Vbz 19 12 24	Ez 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REC	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 2UIRED 213
CARRIER CARRIER CARRIER CARRIER CARRIER ARRIER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R22 R22 R22 R22 R22 R22 R22 E/DX UNIT SC AIRFLOW (CFM) OA (CFM) 1635 N/A 1635 N/A 1635 N/A	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT (MBH,ELEV) 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 101 100 100 100 101 100 100 100 100 100 100 100 101 100 102 100 103 100	3 30 3 30 3 30 3 30 3 30 4 92.5 92.5 92.5 <td>220 220 220 220 220 3 3 3 3 3 3 3 3 3 3</td> <td>ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>E Ø) C C C</td> <td>MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC</td> <td>L 50024</td> <td>(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor</td> <td>(inH20 0.8 0.8 0.8 0.8 SCH</td> <td></td> <td>ECTRICAL LTAGE F 120 120 120 120 120 120 120 120</td> <td>DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2</td> <td>ICA 24.3 24.3 24.3 24.3 24.3 () () () () () () ()</td> <td>OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0</td> <td>ING IT R 0.06 0.12 0.12 0.12</td> <td>EMARKS # / 100</td> <td>0SF #</td> <td>OCCUPA 0 0 0 0</td> <td>NTS N</td> <td>Vbz 19 12 24 78</td> <td>Ez 0.8 0.8 0.8 0.8 0.8 0.8</td> <td>Voz 24 15 30 98 46</td> <td>25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 2UIRED 213</td>	220 220 220 220 220 3 3 3 3 3 3 3 3 3 3	ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 CD5AXA06 NTI FLC	L 50024	(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor	(inH20 0.8 0.8 0.8 0.8 SCH		ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 () () () () () () ()	OPERATI WEIGH (LBS) 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R 0.06 0.12 0.12 0.12	EMARKS # / 100	0SF #	OCCUPA 0 0 0 0	NTS N	Vbz 19 12 24 78	Ez 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 2UIRED 213
CARRIER CARRIER CARRIER CARRIER CARRIER ARRIER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE) OUTPUT 100 1010 100 1010 1010 102 103 104 105 105	3 30 3 30 3 30 3 30 3 30 3 30 4 92.5 92.5 92.5 10 10 10 10 10 10 11 10 12 10 12<	220 220 220 220 220 220 3 3 3 3 3 3 3 3	ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI FL(LE\ LE\ LE\ LE\	L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1	(MBH) 60 60 60 7 10 5 5 5 5 5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5	(inH20 0.8 0.8 0.8 0.8 0.8 0.8 CE TYPE ns (age 9 plu		ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 24.3 (0) (1)	OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R R 0.06 0.12 0.12 0.12 0.12 0.12 0.12	EMARKS # / 100 0 0 35 0	0SF #	OCCUPA 0 0 0 6		Vbz 19 12 24 78 37 161	Ez 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REC TOTAL SUF	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 201
CARRIER CARRIER CARRIER CARRIER G GAS FACTURER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE	3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 5 92.5 5 70RAGE 5 70RAGE CLASSRC 6 CLASSRC 7 CLASSRC 7 CLASSRC 7 CLASSRC 7 ST 8 S 8 S <td< td=""><td>220 220 220 220 220 220 3 3 3 3 3 3 3 3</td><td>ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>E Ø) C C C</td><td>MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILE\ LE\ LE\ LE\ LE\ LE\ LE\</td><td>L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1</td><td>(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor Storage roor Classrooms Corridors</td><td>(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.</td><td>)) VO IEDI IS) IS) IS)</td><td>ECTRICAL LTAGE F 120 120 120 120 120 120 120 120</td><td>DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2</td><td>ICA 24.3 24.3 24.3 24.3 24.3 24.3 1 0</td><td>OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0 0 0 0 0</td><td>ING IT R R 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12</td><td>EMARKS # / 100 0 0 0 0 35 0 35 35 35</td><td>0SF #</td><td>OCCUPA 0 0 0 0 0 0 0 12 13 13</td><td><u>NTS</u></td><td>Vbz 19 12 24 78 37 161 171 171</td><td>Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8</td><td>Voz 24 15 30 98 46 TOTAL REC TOTAL SUF 201 214 214</td><td>25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 201 1 214 1 214</td></td<>	220 220 220 220 220 220 3 3 3 3 3 3 3 3	ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILE\ LE\ LE\ LE\ LE\ LE\ LE\	L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1	(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor Storage roor Classrooms Corridors	(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.)) VO IEDI IS) IS) IS)	ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 24.3 1 0	OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R R 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	EMARKS # / 100 0 0 0 0 35 0 35 35 35	0SF #	OCCUPA 0 0 0 0 0 0 0 12 13 13	<u>NTS</u>	Vbz 19 12 24 78 37 161 171 171	Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REC TOTAL SUF 201 214 214	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 201 1 214 1 214
CARRIER CARRIER CARRIER CARRIER G GAS FACTURER ARRIER ARRIER ARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE	3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 30 30 30 30 30 30 4 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 JJTDC Storaction (Storaction (220 220 220 220 220 220 3 3 3 3 3 3 3 3	ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILE\ LE\ LE\ LE\ LE\ LE\ LE\	L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1	(MBH) 60 60 60 60 Corridors Storage roor Storage roor Storage roor Classrooms Corridors	(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.)) VO IEDI IS) IS) IS)	ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 24.3 1 0	OPERATI WEIGH (LBS) 200	ING IT R 0.06 0.12 0.12 0.12 0.06	EMARKS	0SF #	OCCUPA 0 0 0 6 12 13	<u>NTS</u>	Vbz 19 12 24 78 37 161 171	Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REC TOTAL SUF 201 214 214 214 198	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 214 1 214 1 198 1 198 1 198
CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE	3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 30 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 5 92.5 5 70RAGE 5 70RAGE CLASSRC 6 CLASSRC 7 CLASSRC 7 CLASSRC 7 CLASSRC 7 ST 8 S 8 S <td< td=""><td>220 220 220 220 220 220 3 3 3 3 3 3 3 3</td><td>ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>E Ø) C C C</td><td>MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILE\ LE\ LE\ LE\ LE\ LE\ LE\</td><td>L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1</td><td>(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor Storage roor Classrooms Corridors</td><td>(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.</td><td>)) VO IEDI IS) IS) IS)</td><td>ECTRICAL LTAGE F 120 120 120 120 120 120 120 120</td><td>DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2</td><td>ICA 24.3 24.3 24.3 24.3 24.3 24.3 1 0</td><td>OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0 0 0 0 0</td><td>ING IT R R 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12</td><td>EMARKS # / 100 0 0 0 0 35 0 35 35 35</td><td>0SF #</td><td>OCCUPA 0 0 0 0 0 0 0 12 13 13</td><td><u>NTS</u></td><td>Vbz 19 12 24 78 37 161 171 171</td><td>Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8</td><td>Voz 24 15 30 98 46 TOTAL REC TOTAL SUF 201 214 214</td><td>25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 214 1 198 1 198 1 213 PLIED 250 QUIRED 828 QUIRED 828</td></td<>	220 220 220 220 220 220 3 3 3 3 3 3 3 3	ET FLUE C SIZI (IN 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILE\ LE\ LE\ LE\ LE\ LE\ LE\	L 50024 50024 50024 50024 COOR VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1 VEL 1	(MBH) 60 60 60 60 TON S TON S SPA Corridors Storage roor Storage roor Storage roor Storage roor Classrooms Corridors	(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.)) VO IEDI IS) IS) IS)	ECTRICAL LTAGE F 120 120 120 120 120 120 120 120	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 24.3 1 0	OPERATI WEIGH (LBS) 200 200 200 200 200 200 0 0 0 0 0 0 0	ING IT R R 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	EMARKS # / 100 0 0 0 0 35 0 35 35 35	0SF #	OCCUPA 0 0 0 0 0 0 0 12 13 13	<u>NTS</u>	Vbz 19 12 24 78 37 161 171 171	Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REC TOTAL SUF 201 214 214	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 46 QUIRED 213 PLIED 250 1 214 1 198 1 198 1 213 PLIED 250 QUIRED 828 QUIRED 828
CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER CARRIER	38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 38CKC-060-5 58MXA 120-20 58MXA 120-20 58MXA 120-20	R22 R23 R24 R25 R26 R27 R28 R29 R29 R	60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 60 10 HEDULE (F MOTOR SIZI (HP) 0.8 0.8 3/4 0.8 3/4	95 95 95 95 OR RE FUEL NG NG NG	208 208 208 208 FEREN INPUT (MBH,SL) 132 132 132	1 24.3 1 24.3 1 24.3 CE	3 30 3 30 3 30 3 30 3 30 3 30 30 30 30 30 30 30 30 30 4 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 5 70RAGE CLASSRC CLASSRC CLASSRC CLASSRC CLASSRC CLASSRC CLASSRC CLASSRC	220 220 220 220 220 20 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E Ø) C C C	MODEL CD5AXA06 CD5AXA06 CD5AXA06 NTI ILEN LEN LEN LEN LEN LEN LEN LEN	L 50024 50024 50024 50024 COOR VEL 1 VEL 1	(MBH) 60 60 60 60 TON S TON S Corridors Storage roor Storage roor Storage roor Storage roor Classrooms Classrooms Classrooms Classrooms Classrooms Classrooms	(inH20 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.)) VO IEDI IS) IS) IS) IS) IS) IS) IS)	ECTRICAL LTAGE F 120 120 120 JLE 3 1 2 1 3 1 2 1 6 3 3 3 3 3 3 3 3 3 3	DATA PH N 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ICA 24.3 24.3 24.3 24.3 24.3 24.3 24.3 1 0	OPERATI WEIGH (LBS) 200	ING IT R 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	EMARKS # / 100 0 0 0 0 0 35 0 35 35 35 35 35 35 35 35 35 35 35 35 35	0SF #	OCCUPA 0 0 0 0 6 12 13 13 13 12	<u>NTS</u>	Vbz 19 12 24 78 37 161 171 158 1	Ez 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Voz 24 15 30 98 46 TOTAL REG TOTAL SUF 201 214 214 198 TOTAL REG TOTAL SUF	25 (1)(2) Ev Vot 1 24 1 15 1 30 1 98 1 24 1 25 1 213 PLIED 250 1 214 1 214 1 198 2 1 1 213 PLIED 250
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AIR REGISTER

UPPLY/RETURN

//RETURN REGISTER

DAMPER

PER

FAN

Vbz = Rp * Pz + Ra * Az Az = ZONE FLOOR AREA (sqft) Pz = ZONE POPULATION; OCCUPANTS Voz = Vbz/ Ez Vot = Vbz/ Ev

GAS

GUARDS, AND 100% OA ECONOMIZER.

Rp = OUTDOOR AIRFLOW RATE PER PERSON (CFM/ PERSON) Ra = OUTDOOR AIRFLOE RATE REQUIRED PER UNIT AREA (CFM/ SQFT)

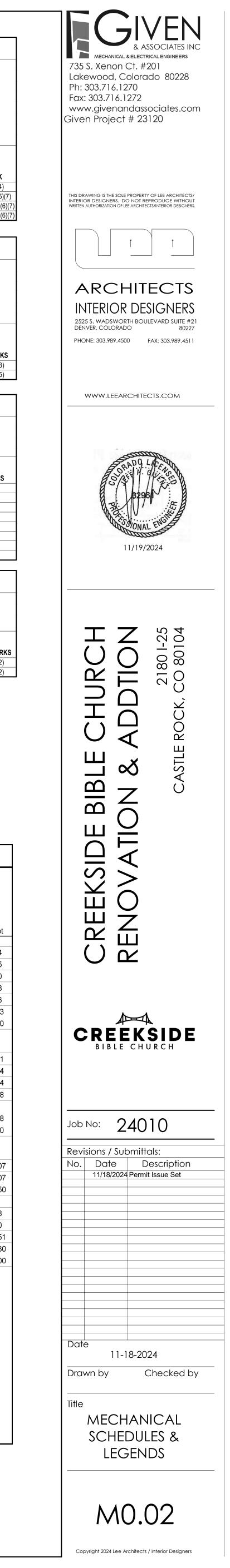
Vbz (CFM) = BREATHING ZONE OUTDOOR AIR FLOW

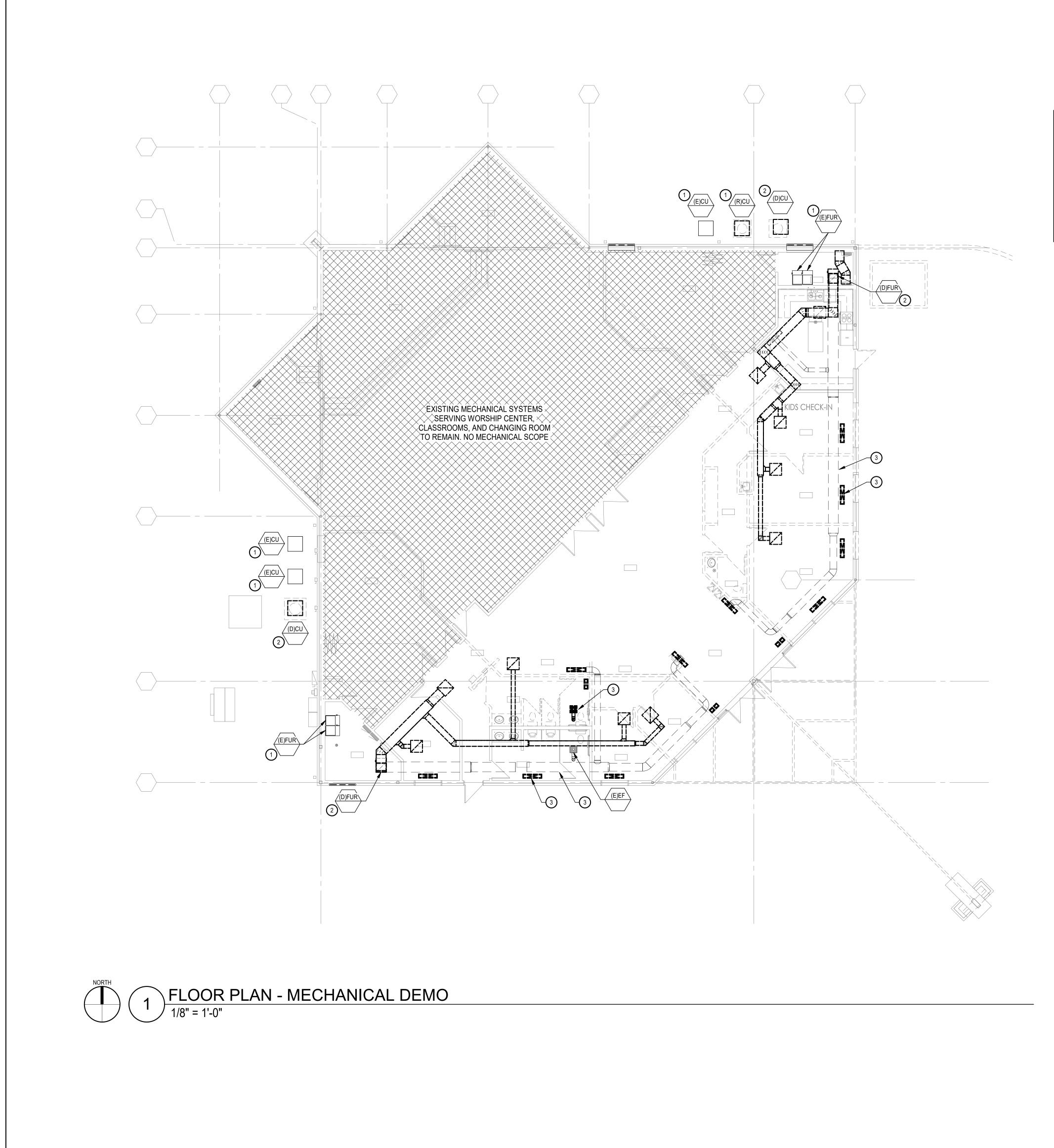
Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS

Voz (CFM) = ZONE OUTDOOR AIR FLOW

Ev = SYSTEM VENTILATION EFFICIENCY Vot (CFM) = REQUIRED OUTDOOR AIR INTAKE FLOW

** FLOOR AREA BASED ON NET OCCUPIABLE AREA.



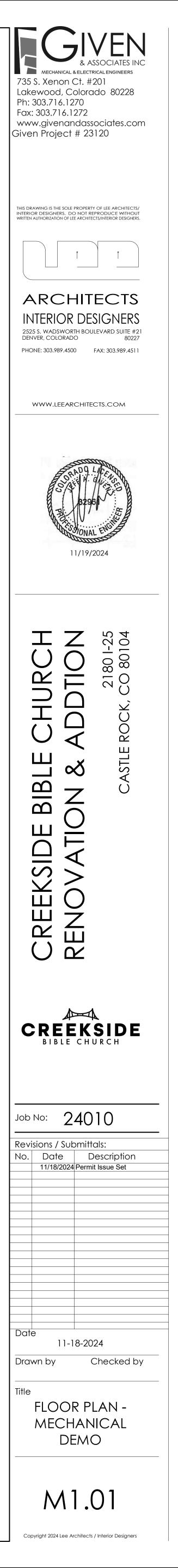


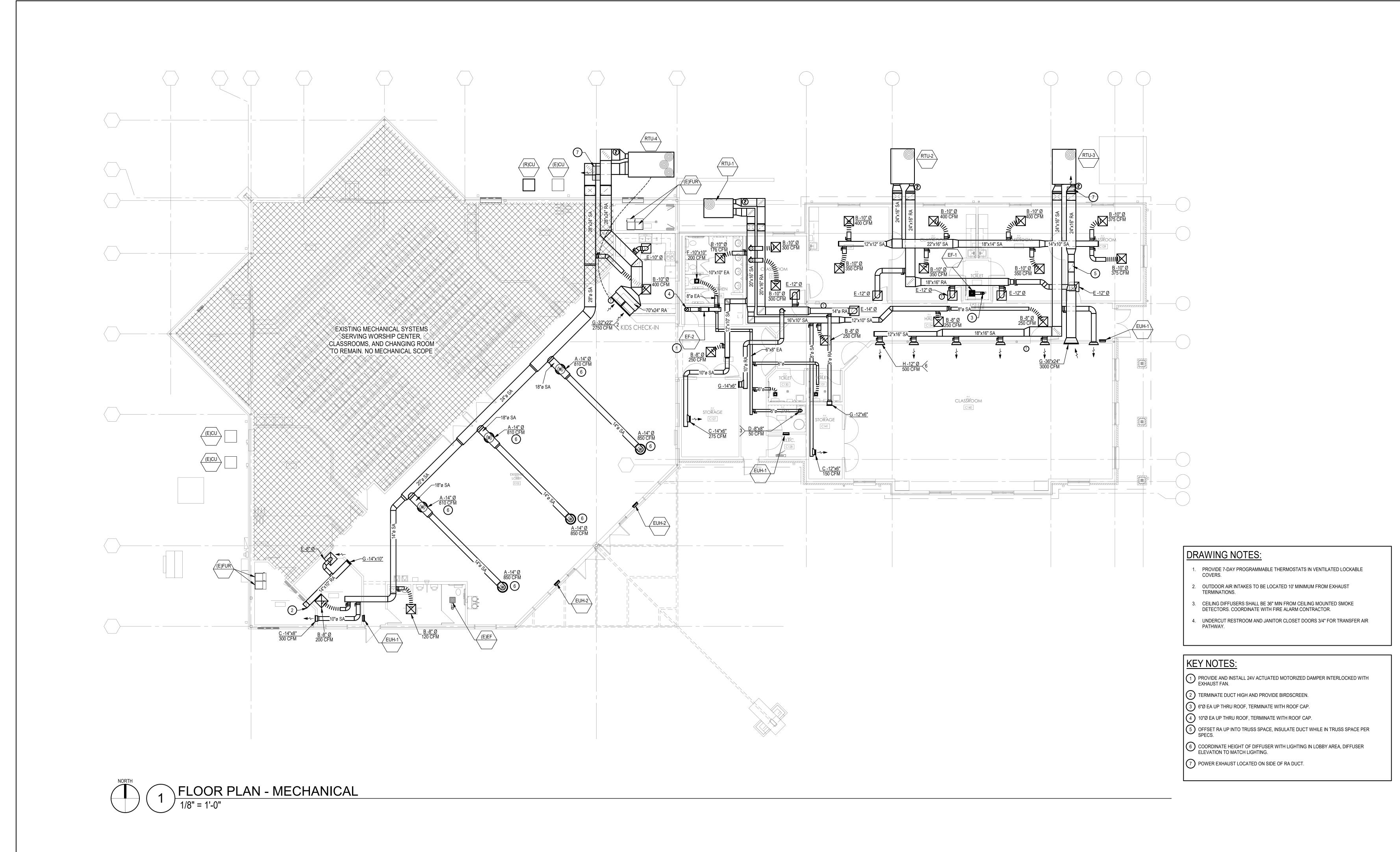
KE	Y NOTES:
	MECHANICAL SYSTEMS
2	DEMOLISH CONDENSIN VERIFY WHICH CONDE
3	DEMOLISH ALL FLOOR DUCTWORK.
4	DEMOLISH RETURN DU CONSTRUCTION PHASI
5	DEMOLISH EXISTING RI ROOF AS REQUIRED.

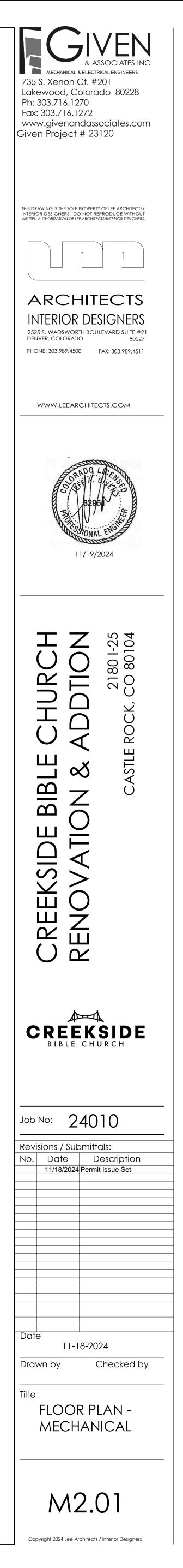
YSTEMS SERVING EXISTING WORSHIP AREA TO REMAIN. NDENSING UNIT ASSOCIATED WITH FURNACE SERVING LOBBY. FIELD I CONDENSING UNIT TO BE DEMOLISHED.

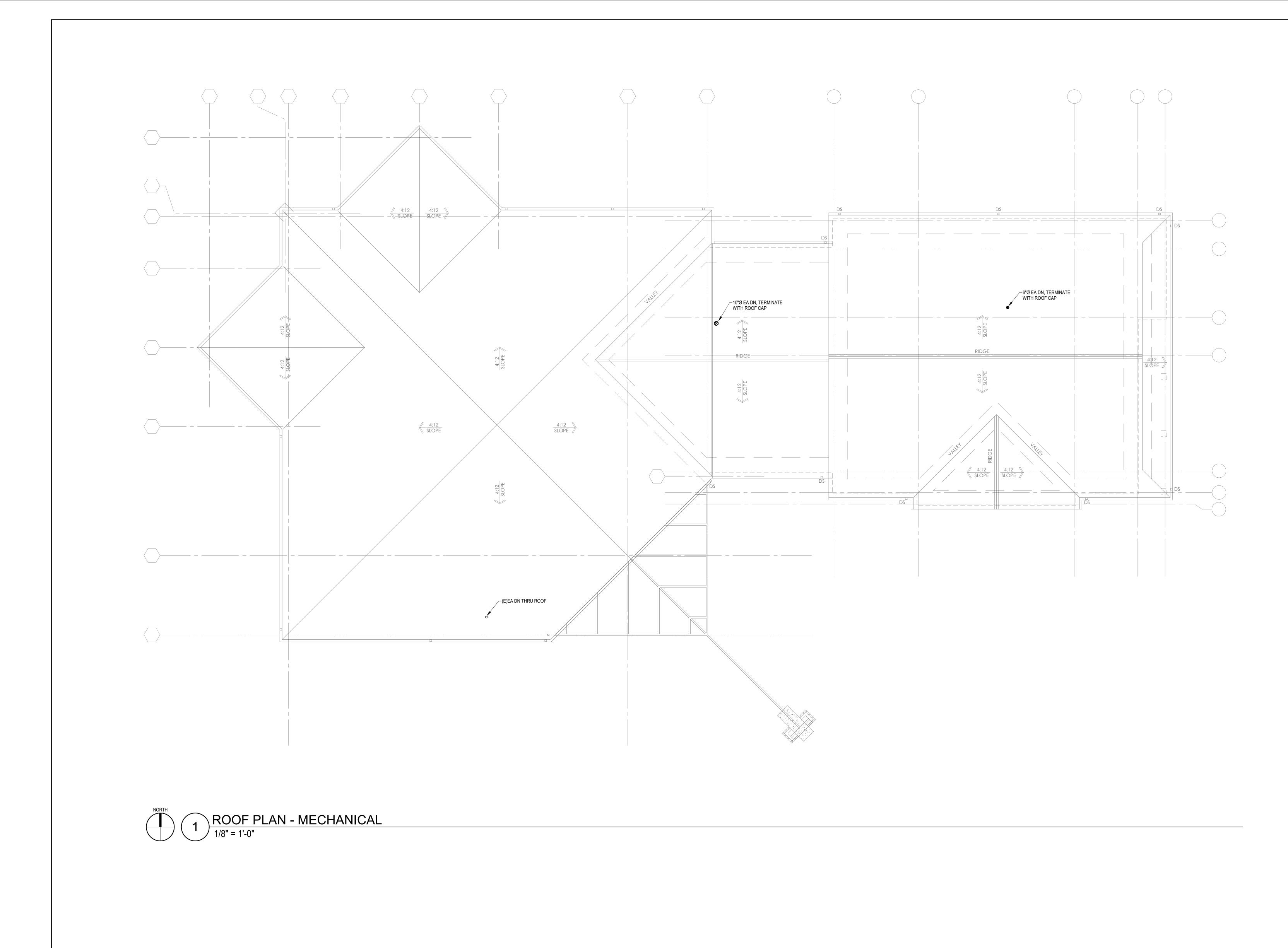
FLOOR MOUNTED DIFFUSERS. CAP AND ABANDON UNDERGROUND

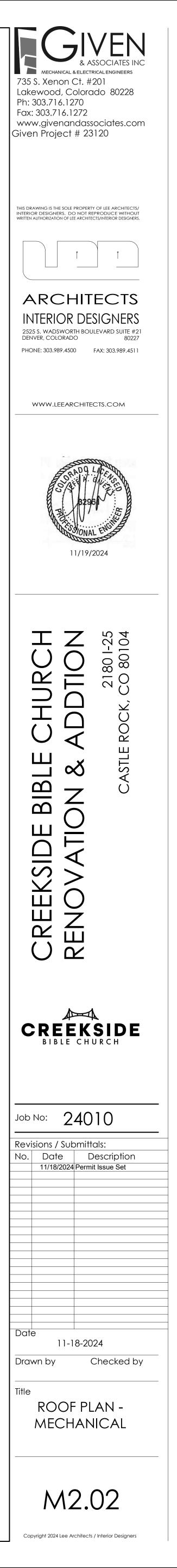
TURN DUCTWORK AND GRILLES. RETURN GRILLES TO BE USED IN NEW DN PHASE. REPAIR OR REPLACE AS NEEDED. STING RESTROOM EXHAUST FAN AND ASSOCIATED DUCT WORK, PATCH

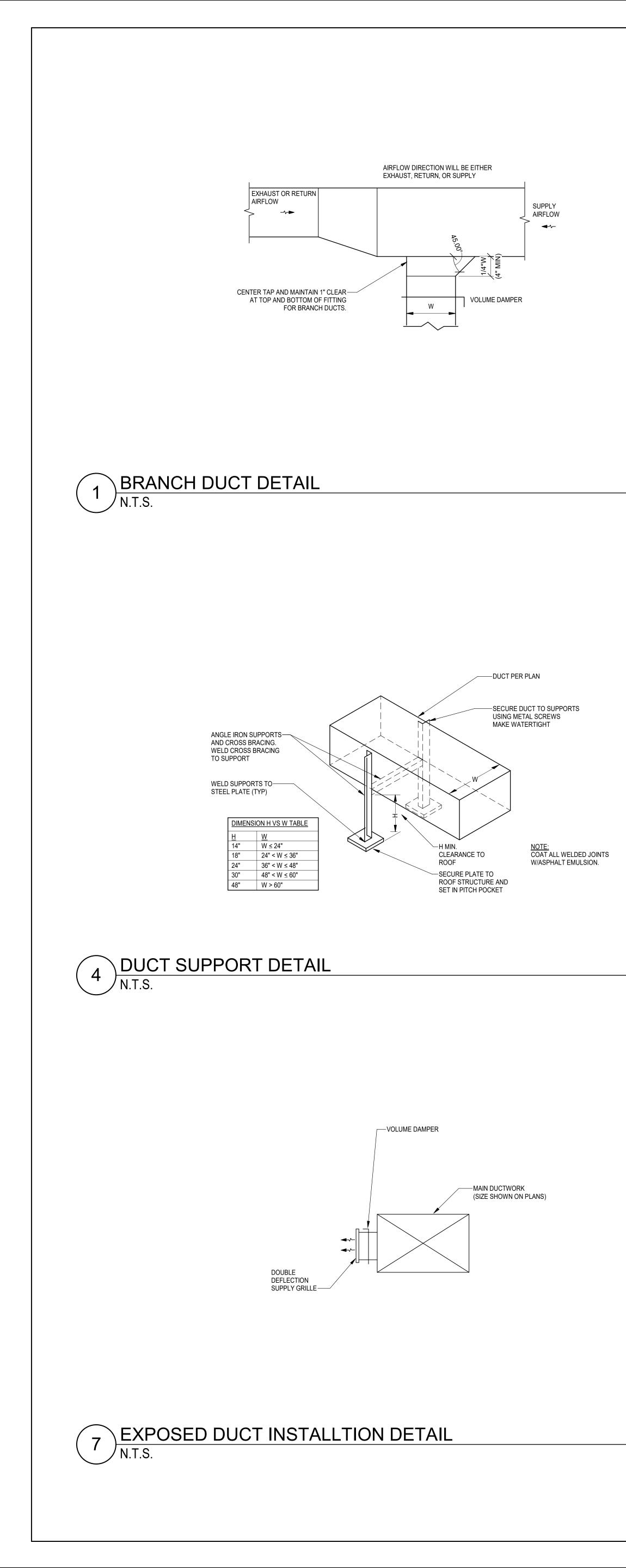


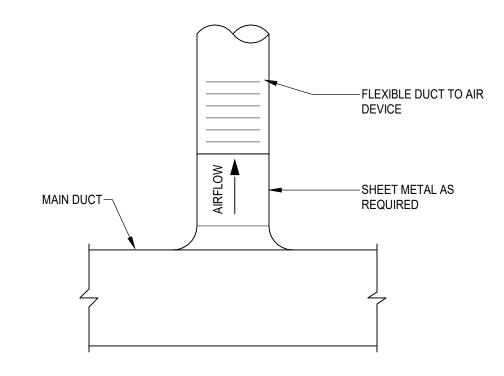




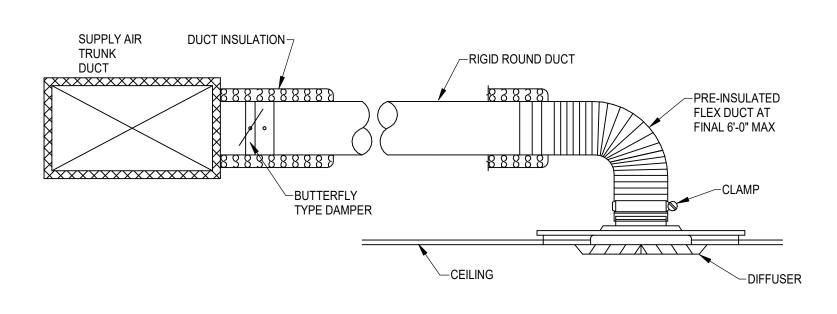




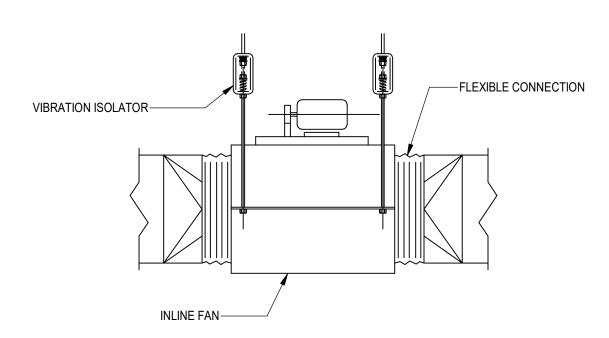




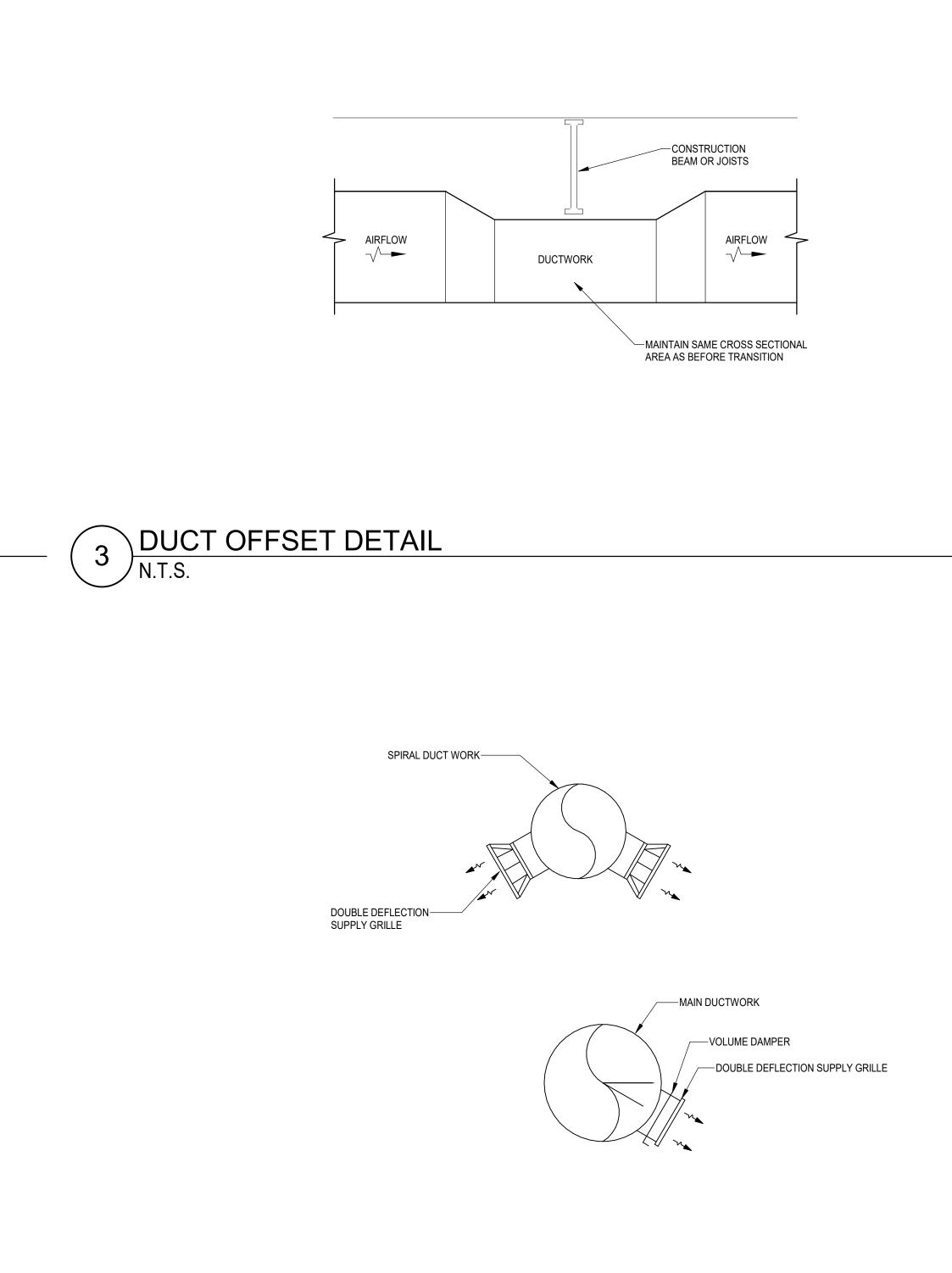
2 CIRCULAR BRANCH DUCT DETAIL N.T.S.



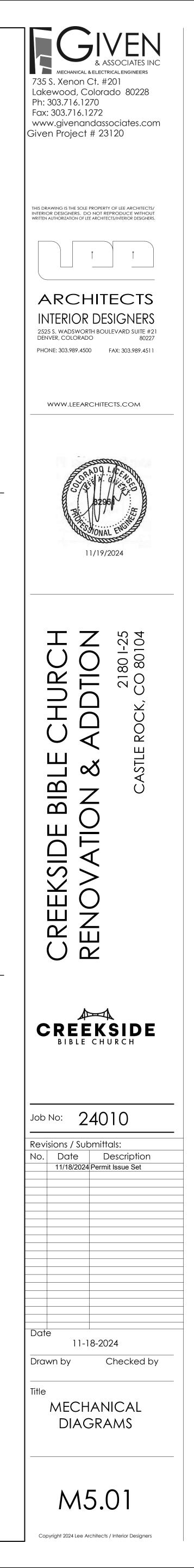
5 DIFFUSER INSTALLATION DETAIL N.T.S.

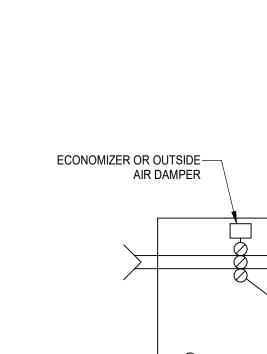






6 EXPOSED DUCT INSTALLTION DETAIL N.T.S.





BAROMETRIC RELIEF

DAMPER

POWER EXHAUSTER

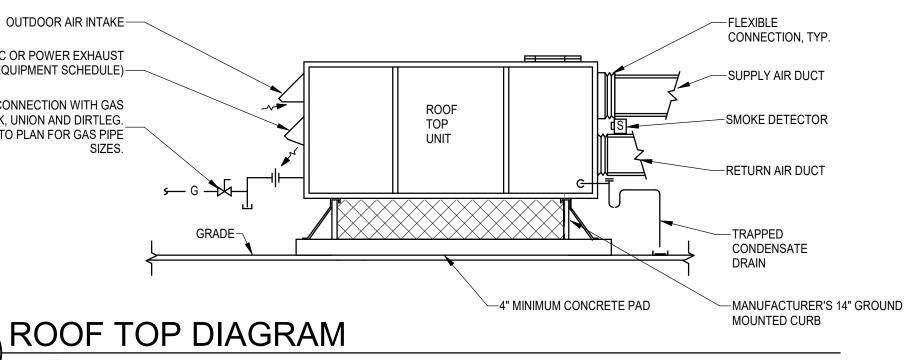
(IF EQUIPPED)-

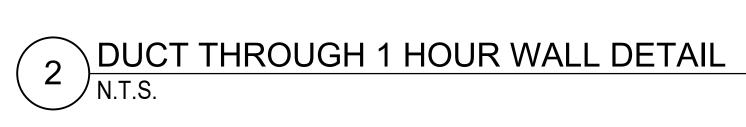
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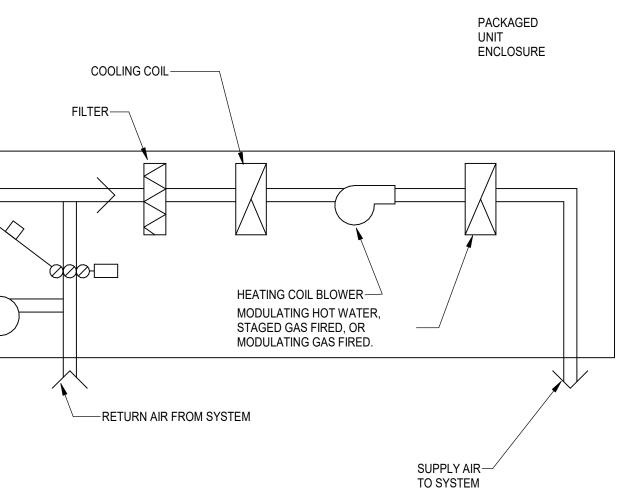


(RE:EQUIPMENT SCHEDULE)-GAS CONNECTION WITH GAS COCK, UNION AND DIRTLEG. REFER TO PLAN FOR GAS PIPE SIZES.

OUTDOOR AIR INTAKE-BAROMETRIC OR POWER EXHAUST







NRTU CONTROL DETAIL

UNOCCUPIED MODE: WHEN UNOCCIPIED THE UNIT SHALL SHUT DOWN AND THE OUTSIDE DAMPERS SHALL CLOSE. IF AN UNOCCUPIED CALL FOR HEATING OR COOLING IS RECEIVED THEN THE UNIT SHALL RUN AS IN THE OCCUPIED MODE FOR COOLING OR WARM-UP MODE FOR HEATING UNTIL THE UNOCCUPIED SETPOINTS ARE SATISFIED - THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED UNLESS THE ECONOMIZER IS ACTIVE.

WARM-UP SEQUENCE: A WARM-UP SEQUNCE SHALL BE ENABLED WHEN THE UNIT SWTCHES FROM UNOCCUPIED TO OCCUPIED. DURING THIS SEQUENCE THE SYSTEM WILL SWITCH TO HEATING FROM THE RTU/AHU, OUTSIDE AIR DAMPERS WILL CLOSE, AND LOCAL HEAT SOURCES SHALL BE DISABLED. THE SWITCH FROM WARM-UP TO NORMAL OCCUPIED SHALL OCCUR EITHER ON A CRITICAL ZONE REACHING HEATING SETPOINT OR THE MAIN RETURN REACHING WARM-UP SETPOINT - THE SYSTEM SHALL BE CAPABLE OF EITHER OPTION. IF EQUIPPED WITH MODULATING HEAT THEN THE SYSTEM SHALL HAVE A VAV WARM-UP CYCLE WHERE THE SYSTEM SHALL SHALL WARM-UP UNTIL ALL ZONES REACH THEIR HEATING SETPOINT BEFORE SWITCHING TO OCCUPIED COOLING. HEATING STAGES AND/OR MODULATION SHALL CYCLE TO MAINTAIN A DISCHARGE HEATING SETPOINT THAT CAN BE USER ADJUSTABLE.

SPACE.

SEQUENCES

SUPPLY FAN BY A PERCENTAGE DIFFERENTIAL.

BOXES AND GRD'S.

DISCHARGE AIR CONTROL: IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE DISCHARGE AIR COOLING SETPOINT, THE ECONOMIZER MODULE WILL BE ENABLED. IF OUTSIDE AIR CONDITIONS ARE SUITABLE, THE MIXED AIR DAMPERS WILL MODULATE TO MAINTAIN SETPOINT. IF OUTSIDE AIR CONDITIONS ARE NOT SUITABLE, THE FIRST STAGE OF COOLING WILL BE ENERGIZED. IF EQUIPPED WITH DIFFERENTIAL ENTHALPY ECONOMIZER CONTROLS THEN THE UNIT WILL USE OUTSIDE AIR RATHER THAN RETURN AIR IN CONJUNCTION WITH MECHANICAL COOLING. A FURTHER RISE IN DISCHARGE AIR TEMPERATURE WILL BRING ON ADDITIONAL COOLING STAGES IF EQUIPPED. COOLING STAGES WILL OPERATE WITH MINIMUM OFF AND ON TIMES. AS THE DISCHARGE AIR TEMPERATURE FALLS BELOW THE DISCHARGE AIR COOLING SETPOINT, STAGES OF COOLING WILL DE-ENERGIZE IN REVERSE ORDER. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE DISCHARGE AIR HEATING SETPOINT THE FIRST STAGE OF HEATING WILL BE ENERGIZED. A FURTHER DROP IN DISCHARGE AIR TEMPERATURE WILL BRING ON ADDITIONAL HEATING STAGES, IF EQUIPPED. HEATING STAGES WILL OPERATE WITH MINIMUM OFF AND ON TIMES. AS THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE DISCHARGE AIR HEATING SETPOINT, STAGES OF HEATING WILL DE-ENERGIZE IN REVERSE ORDER. IF EQUIPPED WITH MODULATING HEAT THEN THE UNIT SHALL MODULATE HEAT OUTPUT TO MAINTAIN THE DISCHARGE AIR SETPOINT.

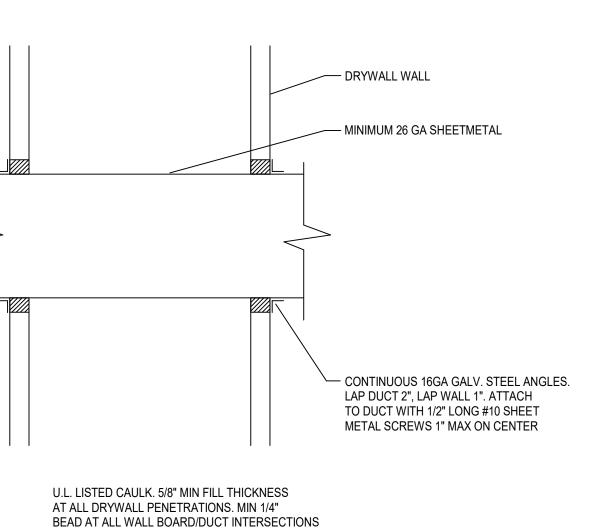
OUTSIDE AIR CONTROL: THE OUTSIDE AIR DAMPER SHALL HAVE A MINIMUM POSITION SET BY BALANCER TO ACHIEVE MINIMUM OUTSIDE AIR SETTING AS NOTED IN SCHEDULES. IF EQUIPPED WITH CO2 SENSOR(S) THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM CO2 LEVELS (1,000 PPM ADJ) IN THE SPACE. A MINIMUM SETTING OF 10% (ADJ) ON THE OUTSIDE AIR DAMPER SHALL BE MAINTAINED TO KEEP THE SPACE PRESSURIZED.

TEMPERATURE SHALL BE MONITORED. OVERRIDE THE OUTSIDE AIR DAMPERS IF THE MIXED AIR FALLS BELOW 35F (ADJ) OR DISCHARGE AIR EXCEEDS 60F (ADJ). ALARM THE BAS IF EITHER OCCURS. PRESSURE CONTROL:

IF EQUIPPED WITH BAROMETRIC RELEIF THE RELEIF DAMPER SHALL OPEN TO RELEIVE AIR FROM THE BUILDING. THE DAMPER SHALL BE ADJUSTABLE FROM 0.00" TO 0.10" STATIC PRESSURE. BALANCER TO SET RELIEF DEPENDING ON RETURN DUCTS TO MAINTAIN 0.05-0.10" POSITIVE IN THE SPACE. IF EQUIPPED WITH STANDARD SINGLE STAGE POWER EXHAUSTERS THE FANS SHALL ENERGIZE BASED ON THE ECONOMIZER POSITION. WHEN THE ECONOMIZER (OR OUTSIDE AIR) DAMPER EXCEEDS 30% OPEN (ADJ) THE EXHAUST FANS SHALL ENERGIZE.

IF EQUIPPED WITH MODULATING POWER EXHAUSTERS THE FANS SHALL BE CONTROLLED BY DIFFERENTIAL PRESSURE SENSORS - ONE PLACED IN THE OCCUPIED SPACE AND ONE OUTDOORS. THE FANS SHALL MODULATE TO MAINTAIN 0.05" ADJ) POSITIVE PRESSURE INSIDE THE SPACE.

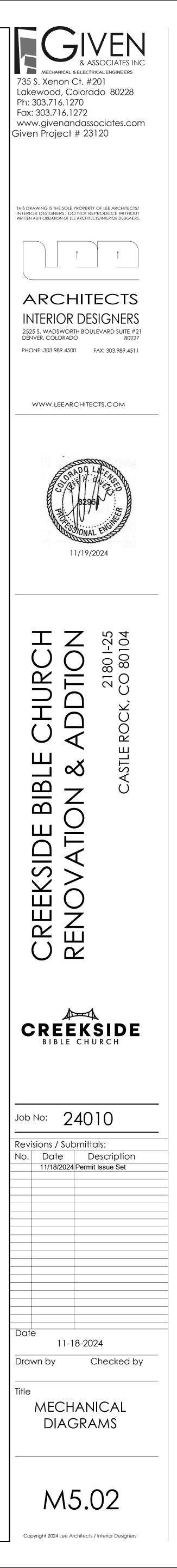
IF THE MODULATING POWER EXHAUSTER IS EXTERNAL (BOLT-ON OR OTHER) TO THE UNIT THE ATC SHALL INCORPORATE CONTROLS TO MEET THESE STRATEGIES. IF EQUIPPED WITH A RETURN FAN THEN THE RETURN FAN SHALL TRACK AS INDICATED ABOVE. THE RETURN AIR / EXHAUST AIR DAMPERS SHALL BE CONTROLLED BY DIFFERENTIAL PRESSURE SENSORS - ONE PLACED IN THE OCCUPIED SPACE AND ONE OUTDOORS. THE EXHAUST DAMPER SHALL MODULATE TO MAINTAIN 0.05" (ADJ) POSITIVE PRESSURE INSIDE THE

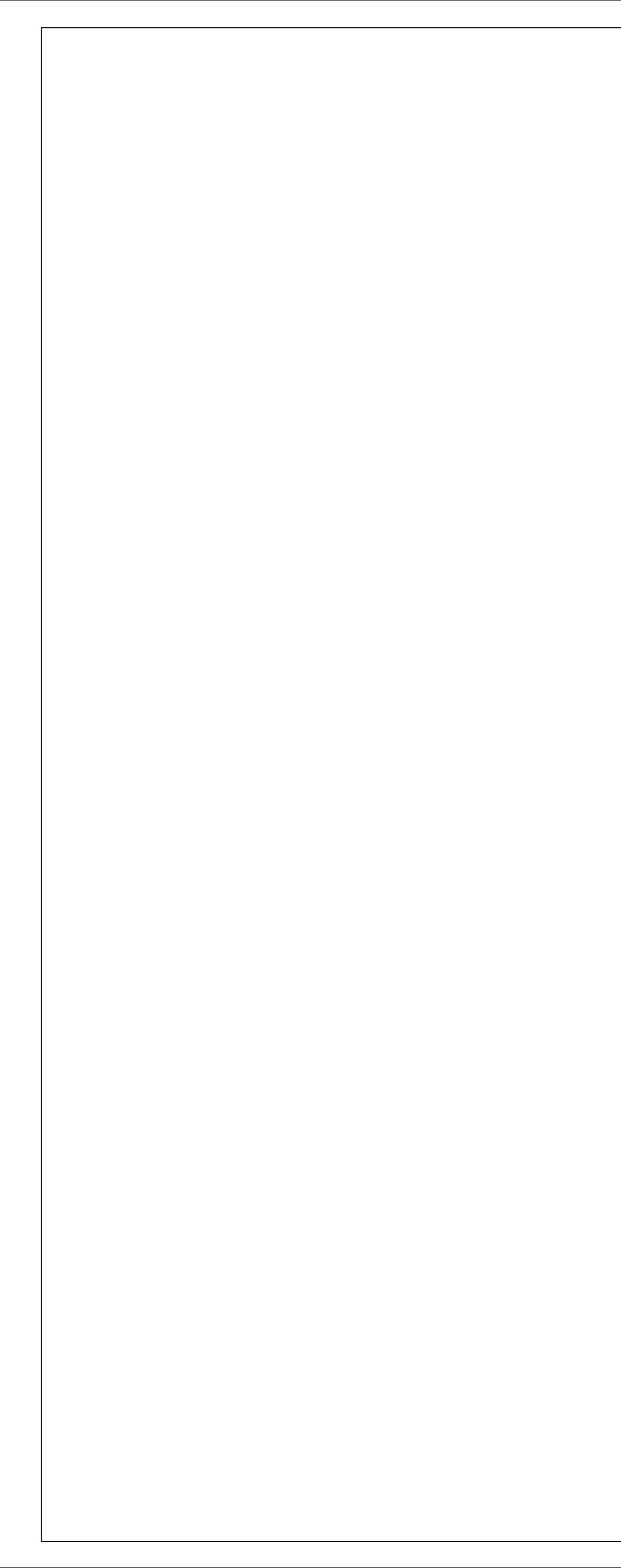


OCCUPIED MODE: WHEN THE UNIT IS OCCUPIED, THE SUPPLY FAN WILL RUN CONTINUOUSLY. THE UNIT SHALL OPERATE TO MAINTAIN AN OCCUPIED COOLING DISCHARGE AIR TEMPERATURE SETPOINT. IF EQUIPPED WITH A FULL BAS THE SYSTEM SHALL HAVE THE ABILITY TO RESET THE DISCHARGE AIR SETPOINT BASED ON OUTSIDE TEMPERATURES. IF EQUIPPED WITH A RETURN FAN THE RETURN FAN SHALL MODULATE IN CONJUNCTION WITH THE SUPPLY FAN. THE RETURN FAN SHALL LAG THE

SUPPLY FAN CONTROL: THE SUPPLY FAN SHALL HAVE VFD CONTROL. THE FAN SHALL BE CONTROLLED TO MAINTAIN A POSITIVE PRESSURE IN THE DUCTWORK (APPROXIMATELY 2/3 DOWN LONGEST RUN) SUITABLE FOR PROPER OPERATION AND BALANCING OF VAV

IF EQUIPPED WITH OUTSIDE AIR MONITORING STATION THEN THE OUTSIDE AIR DAMPERS SHALL MODULATE TO MAINTIAN THE MINIMUM OUTSIDE AIR CFM AS INDICATED IN THE SCHEDULES. THE MIXED AIR TEMPERATURE AND DISCHARGE AIR







Energy Code:

Project Title:

Climate Zone:

Project Type:

Location:

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information

2018 IECC Creekside Bible Church Renovation and Addition Castle Rock, Colorado 5b

Construction Site: Castle Rock, Colorado 80104

Mechanical Systems List

Quantity System Type & Description

- 1 RTU-1 (Single Zone):
 - Heating: 1 each Central Furnace, Gas, Capacity = 150 kBtu/h

Owner/Agent:

Addition

- Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each Single Package DX Unit, Capacity = 65 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER
- Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER Fan System: RTU-1 | Classroom/Hallway -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
- Fans: FAN 1 Supply, Constant Volume, 2300 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency
- 1 RTU-2 (Single Zone):
 - Heating: 1 each Central Furnace, Gas, Capacity = 224 kBtu/h
 - Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
 - Fan System: RTU-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans: FAN 2 Supply, Constant Volume, 3000 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency

- 1 RTU-3 (Single Zone):
 - Heating: 1 each Central Furnace, Gas, Capacity = 224 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 - Cooling: 1 each Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, Air Economizer
 - Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER Fan System: RTU-3 | Classroom -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 - Fans: FAN 3 Supply, Constant Volume, 3000 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency
- 1 RTU-4 (Single Zone):

 - Heating: 1 each Central Furnace, Gas, Capacity = 350 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
- Cooling: 1 each Single Package DX Unit, Capacity = 163 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.50 EER, Required Efficiency = 10.80 EER Proposed Part Load Efficiency = 14.50 IEER, Required Part Load Efficiency = 12.20 IEER Fan System: RTU-4 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
- Fans: FAN 4 Supply, Constant Volume, 6000 CFM, 3.5 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency

Project Title: Creekside Bible Church Renovation and Addition Data filename:

Report date: 11/18/24 Page 4 of 13

Mechanical Compliance Statement

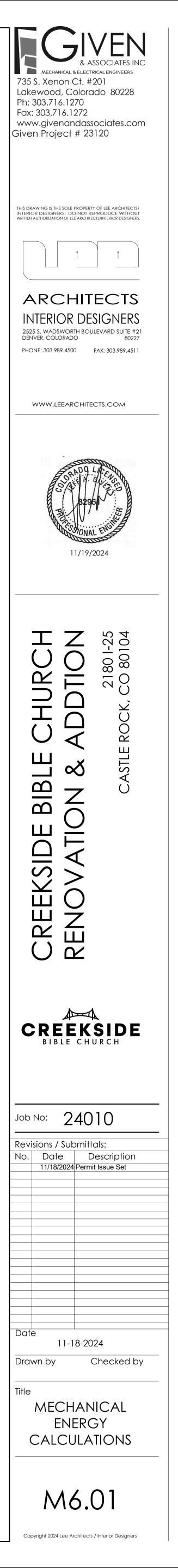
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Designer/Contractor:

Project Title: Creekside Bible Church Renovation and Addition Data filename:

Report date: 11/18/24 Page 5 of 13



THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL. 01. BASIC REQUIREMENTS

- A. PLUMBING PLANS MAY INCLUDE SCOPE INFORMATION FOR OTHER TRADES. GENERAL CONTRACTOR TO FACILITATE COORDINATION OF PERTINENT INFO TO ALL REQUIRED CONTRACTORS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BID TO CONFIRM A COMPLETE SYSTEM IS INCLUDED.
- B. PLUMBING DESIGN SHALL CONFORM TO ADOPTED CODES AND ALL LOCAL AMENDMENTS. PROJECT SHALL BE COORDINATED WITH ALL BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
- C. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL, STRUCTURAL OR CIVIL DRAWINGS BY OTHER DESIGN PROFESSIONALS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS.
- D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. DESIGN IS DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY DESIGN INTENT ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ALL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE PRIOR TO BID FOR ALL ESTIMATING PURPOSES.
- COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE, WHERE CROWDED CONDITIONS EXIST. PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF WORK MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST. PROVIDE OFFSETS AT CHANGES OF DIRECTION AND TO AVOID OBSTRUCTIONS AT NO ADDITIONAL COST TO OWNER.
- THE APPLICABLE STANDARDS OF UL, ASTM, CISPI, ETC. AND SHALL BEAR THE LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT. G. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EQUIPMENT, FIXTURES AND APPARATUS FURNISHED BY CONTRACTOR, TENANT, OTHER TRADES, DIVISIONS AND/OR EXISTING. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE
- ARCHITECT/ENGINEER FOR DIRECTION PRIOR TO PROCEEDING. H. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ARCHITECT/ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.
- . CONTRACTOR TO ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES ON ALL EQUIPMENT AND PROVIDE ALL NECESSARY ADJUSTMENTS FOR PROPER OPERATION.
- J. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR THEIR AGENCIES. ANY SUBSTITUTED EQUIPMENT FROM SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE SUBSTITUTED EQUIPMENT REALIZED BY OTHER CONTRACTORS OR THE DESIGN TEAM.
- K. AT TIME OF BID THE CONTRACTORS SHALL ENSURE THE SITE TO BUILDING UTILITY CONNECTIONS ARE INCLUDED. CONTRACTORS TO COORDINATE INVERT AND SIZING OF ALL PLUMBING LEAVING OR ENTERING THE BUILDING. CONTRACTORS SHALL CONTACT DESIGN TEAM DURING THE BID PROCESS IF THERE IS A DISCREPANCY BETWEEN THE CIVIL DOCUMENTS AND THE
- L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NEW EQUIPMENT, FIXTURES AND DEVICES IN A LIKE NEW STATE AT TIME OF PROJECT CLOSEOUT. PROTECT EQUIPMENT, FIXTURES AND DEVICES AS REQUIRED AGAINST PHYSICAL DAMAGE, DEBRIS, RAIN, SNOW, WIND, DIRT, SUN FADING, RUST, CORROSION OR ANY OTHER DEGRADATION. CONTRACTOR TO REPAIR OR REPLACE ANY EQUIPMENT OR DEVICES AS REQUIRED.
- 02. BASIC MATERIALS
- A. PROVIDE PLUMBING SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMER, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM. CONTRACTOR IS REQUIRED TO COORDINATE WITH OTHER TRADES OR RETAIN SUB-CONTRACTORS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PRIOR TO BID.
- B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING MATERIALS, EQUIPMENT, AND APPARATUS. PROVIDE VIBRATION ISOLATION AND FLEXIBLE CONNECTIONS ON ALL EQUIPMENT WITH ROTATING OR OSCILLATING COMPONENTS AND PUMPS OVER 1 HORSEPOWER.
- ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THE CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION, ELEVATION, EXTENT, MATERIAL, AND FINISH.
- D. UNLESS NOTED ELSEWHERE ON PLAN, PROVIDE ASSE 1003 PRESSURE REDUCING VALVE ASSEMBLY AT BUILDING WATER SERVICE ENTRY. OUTLET PRESSURE TO BE SET TO MAINTAIN A MAXIMUM STATIC PRESSURE OF 80 PSI AT ANY FIXTURE.
- E. PROVIDE DRAINAGE SYSTEM CLEANOUTS AS REQUIRED BY LOCAL CODES.
- F. PROVIDE QUARTER TURN BRANCH AND ZONE SHUT-OFF VALVES ON ALL WATER LINES EXTENDING FROM MAINS. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, ACTUATORS, MOTORS, DEVICES, ETC AND THE PROPER SERVICING OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. AT TIME OF BID THE CONTRACTOR AND GC SHALL COORDINATE TO ENSURE THAT ALL ACCESS PANELS (INCLUDING FIRE AND/OR SMOKE RATED MODELS) ARE INCLUDED.
- H. PROVIDE SEISMIC AND/OR WIND LOADING SECUREMENT DETAILS AS REQUIRED BY THE LOCAL JURISDICTION. THE CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIER(S) TO OBTAIN THE DRAWINGS AND INSTALL THE SYSTEM AS REQUIRED BY THE MANUFACTURER. CONTRACTOR TO SELECT ATTACHMENT AND MOUNTING SYSTEM(S) BASED ON ATTACHING TO THE DESIGNED SUBSTRATE AND STRUCTURE WITHOUT REQUIRING ADDITIONAL REINFORCEMENT BY OTHERS. IF ANY SUBSTRATE AND/OR STRUCTURE IS REQUIRED FOR PROPER REINFORCEMENT, CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ALL POTENTIAL REQUIREMENTS PRIOR TO BID.
- I. FIRE STOP ALL PIPING AND WIRING MATERIALS PASSING THROUGH RATED STRUCTURES OR ASSEMBLIES USING U.L. LISTED PRODUCTS FOR ALL APPLICABLE PENETRATIONS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- J. FIELD LABEL ALL PLUMBING EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER PLUMBING AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING. K. TAG ALL ZONE VALVES WITH CONSECUTIVE NUMBERING ON PERMANENT HARD PLASTIC OR METAL TAB AND PROVIDE SCHEDULE LISTING ITEMS, AREA SERVED, SIZE AND VALVE TYPE.
- SUBMIT FINAL VALVE SCHEDULE FOR REVIEW. L. ALL PROVIDED MATERIALS LOCATED IN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED BY AN INDEPENDENT TESTING LAB. CONTRACTOR SHALL COORDINATE AT TIME OF BID WITH OTHER TRADES.
- M. UTILIZE AN INDEPENDENT BALANCER WITH NEBB AND/OR AABC CERTIFICATION. RECIRCULATING PLUMBING SYSTEM SHALL BE BALANCED TO 10% DISCREPANCY OF THE GPM INDICATED ON THE PLANS. IF THERE IS A DISCREPANCY GREATER THAN 10%, BALANCE CONTRACTOR SHALL CONTACT ENGINEER. A BALANCING METHOD MUST BE PROVIDED FOR ALL CIRCULATING SYSTEMS. PROVIDE A FINAL COPY OF THE BALANCE REPORT TO THE ENGINEER OF RECORD UPON COMPLETION OF THE PLUMBING SYSTEMS. RESIDENTIAL UNITS SHALL BE PROVIDED WITH A PROJECT SPECIFIC BALANCING PLAN AS REQUIRED BY THE RESPECTIVE ENERGY PROGRAM AND AHJ.
- 03. PIPING
- A. SANITARY AND VENT PIPING ABOVE AND BELOW GRADE SOLID CORE (NO CELL CORE) PVC: SCHEDULE 40 PIPE (140F MAX) AND SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1784, ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED PVC DWV FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED PVC DWV FITTINGS SHALL CONFORM TO ASTM F 1866. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14. INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY MANUFACTURER AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668. SOLVENT CEMENT JOINTS SHALL BE MADE IN A TWO STEP PROCESS WITH COLORED PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH PVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION
- B. DOMESTIC WATER PIPING (WATER ENTRY, MECH ROOMS) ABOVE GRADE SHALL BE ASTM B 88, TYPE L COPPER WITH WROUGHT OR FORGED FITTINGS AND LEAD FREE SOLDERED OR MECHANICALLY PRESSED-CONNECTED JOINT PRO PRESS OR EQUAL.
- FLOWGUARD GOLD CTS (1/2" THRU 2") PIPE UTILIZING A 1-STEP SOLVENT CEMENT CONFORMING TO ASTM F493. IF THE AHJ REQUIRES PRIMER, THEN A PRIMER CONFORMING TO ASTM F656 SHOULD BE USED. CONTRACTOR SHALL HAVE ALL INSTALLERS BE BONDED QUALIFIED TO ASME B 31.3. CORZAN CPVC SCHEDULE 80 PIPE W/ CELL CLASS 24448 UP TO 6" AND 23447 8" AND G. ALL PRIMERS AND CEMENTS SHALL BE LISTED WITH NSF FOR POTABLE WATER.
- a. REVIEW ALL ANCILLARY PRODUCT (CAULK. FIRE SEALANT. COATED HANGERS, ETC...) WITH THE LUBRIZOL SYSTEM COMPATIBLE PROGRAM AND/OR RECEIVE WRITTEN DOCUMENTATION FROM ANCILLARY PRODUCT MANUFACTURER SHOWING "COMPATIBILITY" WITH CPVC.
- A. CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED JOINTS, OR CPVC IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- B. GAS PIPING USED FOR THE INSTALLATION, EXTENSION, ALTERATION, AND/OR REPAIR OF ANY GAS PIPING SYSTEM SHALL BE BLACK STEEL PIPE ASTM A53 ERW (TYPE E) GRADE B, OR FURNACE-WELDED (TYPE F) GRADE A, STANDARD WALL, SCHEDULE 40. ALL A53 PIPING SHALL BE THIRD PARTY TESTED TO MEET THE CODE AND EACH LENGTH SHALL BE STENCILED WITH MFG., LENGTH, ASTM 53 & PIPE TYPE.
- GAS PIPING 3 INCHES AND LARGER SHALL BE SCHEDULE 40 STEEL WITH WELDED JOINTS. GAS PIPING 2-1/2 INCHES AND SMALLER SHALL BE SCHEDULE 40 STEEL. MALLEABLE THREADED FITTINGS OR MECHANICALLY PRESS-CONNECTED (MEGA PRESS) MEETING ASTM A53.
- GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 STEEL, AND WRAPPED WITH PROTECTIVE PIPE COVERING AND VENTED IN ACCORDANCE WITH LOCAL JURISDICTIONS HAVING AUTHORITY.
- E. SEMI RIGID FLEXIBLE GAS PIPING BY TRACPIPE MAY BE USED IF APPROVED BY LOCAL JURISDICTIONS. SYSTEM RESIZING FOR CSST SUBSTITUTIONS IS THE PC'S RESPONSIBILITY.
- EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
- NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- H. FIRE STOP ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED CONTRACTORS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF

PLUMBING DOCUMENTS. COORDINATE WITH SITE CONTRACTOR TO BRING ALL UNDERGROUND PLUMBING TO A MINIMUM OF 5' OFF OF BUILDING FOUNDATION UNLESS NOTED OTHERWISE

C. DOMESTIC WATER PIPING (MAINS, DISTRIBUTION) ABOVE/BELOW GRADE: SOLVENT SOCKET WELDED CPVC PIPE MEETING ASTM D2846 W/ CELL CLASS 24448 PER ASTM D1784 FOR

b. CONTRACTOR SHALL SUBMIT PROOF OF TRAINING BY CPVC MANUFACTURER WITHIN LAST 2-YEARS OF START OF THIS PROJECT FOR "RECOMMENDED INSTALLATION PRACTICES".

F. PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS.

G. ANY PIPING SYSTEM LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF

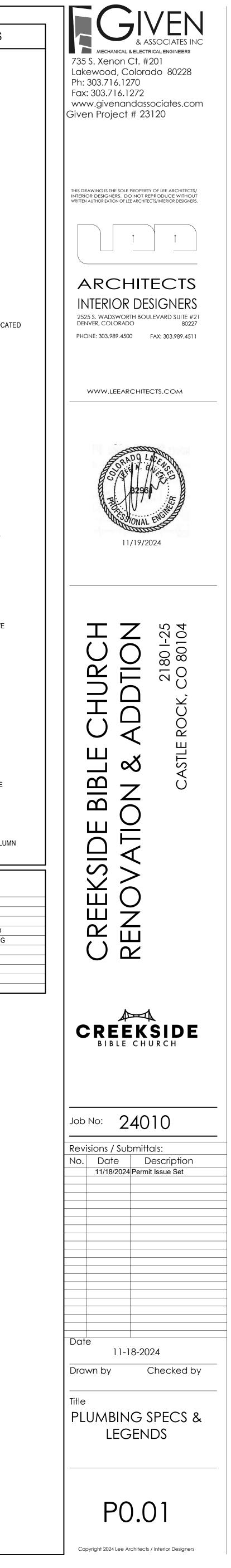
- 04. INSULATION
- A. PIPING INSULATION TO BE INSTALLED AS PER BELOW. WHEN CONFLICTING INSULATION REQUIREMENTS ARE LISTED, THE MORE STRINGENT SHALL BE USED. B. INSULATION SHALL BE INSTALLED PER IECC SECTION & TABLE C403 MINIMUM PIPE INSULATION THICKNESS AND TABLE C404 PIPING VOLUME AND MAXIMUM PIPING LENGTHS. HOT & RETURN WATER PIPING (105°-140°) 1-1/4" AND SMALLER SHALL HAVE 1" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET, 1-1/2" AND LARGER SHALL HAVE 1-1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUE OF 0.21-0.28). 141°-200° 1 1/4" AND SMALLER SHALL HAVE 1 1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET, 1-1/2" AND
- LARGER SHALL HAVE 2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUES OF 0.25-0.29). EXCEPTION: PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE OF NOT LESS THAN R-3.
- C. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
- D. SANITARY, DOMESTIC COLD, AND HOT WATER PIPING IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE SHALL BE INSTALLED TO THE WARM SIDE OF THE BUILDING INSULATION
- E. IN COLD ENVIRONMENTS (99% WINTER DESIGN DB <34F):
- 1. HORIZONTAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH 1-INCH FIBERGLASS INSULATION.
- INSULATED WITH 1-INCH FIBERGLASS INSULATION.
- INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
- 05. PLUMBING FIXTURE
- A. FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE PLANS.
- B. PROVIDE CHROME PLATED ANGLE STOPS AND ESCUTCHEON PLATES ON ALL EXPOSED FIXTURE RUNOUTS
- C. PROVIDE INSULATION AND ROUGH IN AS REQUIRED FOR COMPLIANCE WITH ADA REQUIREMENTS.
- D. PROVIDE ALL ACCESSORIES AND SPECIALTY ITEMS AS REQUIRED FOR A COMPLETE FIXTURE INSTALLATION.
- 06. REDUCED PRESSURE BACKFLOW PREVENTER A. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR THE PRIMARY DOMESTIC COLD WATER SERVICE IN ACCORDANCE WITH STATE, LOCAL, AND JURISDICTIONAL WATER DISTRICT REQUIREMENTS.
- B. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR MECHANICAL EQUIPMENT REQUIRED OF THIS OR OTHER SECTIONS OF THESE SPECIFICATIONS 07. ELECTRIC WATER HEATERS
- A. FURNISH AND INSTALL A GLASS LINED ELECTRIC WATER HEATER AS SCHEDULED ON THE PLANS.
- a. FURNISH HEATER WHICH ARE UL LABELED AND MEET THE REQUIREMENTS OF LOCAL MUNICIPALITIES.
- b. WATER HEATER LOCATED IN CEILING SHALL BE PROVIDED WITH 2 1/2" DRAIN PAN. TERMINATE DRAIN TO NEAREST FLOOR DRAIN, FLOOR SINK OR LAV TRAP.
- B. MINIMUM 2FT OF DOMESTIC WATER PIPE SHALL BE COPPER OFF ALL WATER CONNECTIONS TO WATER HEATER. REFER TO SHEET SPEC SECTION 3 PIPING TO VERIFY MATERIALS ACCEPTABLE IN MECHANICAL/WATER ENTRY ROOM.

08. CIRCULATING PUMP

- A. FURNISH AND INSTALL A NSF RATED DOMESTIC HOT WATER RETURN CIRCULATOR AS SCHEDULED ON THE PLANS. PROVIDE RETURN LINE AQUASTAT AND WIRE COMPLETE TO CYCLE CIRCULATOR TO PROVIDE 120 OR 140 DEGREES RETURN WATER TEMPERATURE (ADJUSTABLE). 09. CONDENSATE PUMP
- A. FURNISH AND INSTALL A SELF CONTAINED CONDENSATE PUMP WHERE INDICATED ON THE PLANS
- B. PUMP SHALL BE CAPABLE OF LIFTING CONDENSATE FROM EQUIPMENT INDICATED ON PLANS FOR PIPED DISPOSAL TO AVAILABLE DRAIN LOCATION. C. PROVIDE HIGH WATER ALARM.

PLUMBING LEGEND **ABBREVIATIONS** ——— BC. —— — BICARB DEMC ------ CT ------ CONCENTRATE EXISTING FUTURE ------ CONDENSATE NEW — - - - — - - — 120° — - - - — DOMESTIC HOT WATER AAV AIR ADMITTANCE VALVE ----- - - - - - - - - - - DOMESTIC HOT WATER RECIRC AREA DRAIN AD ABOVE FINISH FLOOR -GW ————— GREASE WASTE AFF — MCA ——— - MEDICAL COMPRESSED AIR AHU AIR HANDLING UNIT _____G____ — GAS BOILER BASEBOARD _____ 02 ____ - OXYGEN BB - REVERSE OSMOSIS BOOSTER FAN ______ RO ____ BFP BACKFLOW PREVENTER — RD -- ROOF DRAIN _____ ORD __ — OVERFLOW ROOF DRAIN BT BATH TUB - SAND OIL BV BALL VALVE — SANITARY SEWER CONDENSATE DRAIN _____ SS _____ CD CFM CUBIC FEET PER MINUTE — — — — V – — — — VENT ------ SCA ------ SCAVENGER AIR СН CHILLER CLINICAL SINK ------- VAC ------- VACUUM SUCTION CS ------ (A)XX ------ TYPICAL PIPE ABOVE/ON ROOF CONDENSING UNIT CU (B)XX — TYPICAL PIPE BELOW/UNDERGROUND CV CHECK VALVE (E)XX ------ TYPICAL PIPE EXISTING CUH CABINET UNIT HEATER 2. VERTICAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING EXTERIOR WALLS, COVERED PARKING AND CRAWL SPACES SHALL BE DCW | DOMESTIC COLD WATER DRINKING FOUNTAIN DF FIXTURES VALVES DHW DOMESTIC HOT WATER 3. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND DSN DOWN SPOUT NOZZLE EVC EVAPORATIVE COOLER ELECTRICAL CONTRACTOR EC 🗂 BALL VALVE WALL CLEAN OUT 4. PROVIDE MINIMUM 1-INCH THICK INSULATION ON DOMESTIC WATER LINES IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE. ECO END OF LINE CLEANOUT EDH ELECTRIC DUCT HEATER GATE VALVE GH FLOOR CLEANOUT FF EXHAUST FAN ERU ENERGY RECOVERY UNIT GLOBE VALVE AREA DRAIN EXISTING REMOVED FR CHECK ERR EXISTING REMOVED & RELOCATED ' VAI VE EW EMERGENCY EYEWASH EWC ELECTRIC WATER COOLER \mathbf{O} PRESSURE REDUCING VALVE (PRV) ○ FLOOR SINK FULL COVER EWH ELECTRIC WATER HEATER F FURNACE Fa E I MEASURE FLOW ○ FLOOR SINK 3/4 COVER FCO FLOOR/GRADE CLEANOUT FCU FAN COIL UNIT HOH TEE UP > FLOOR SINK 1/2 COVER FD FLOOR DRAIN FS FLOOR SINK 나는 I TEE DOWN ∩(M)∩ GAS METER GAS GC GENERAL CONTRACTOR OH ELBOW UP GM GAS METER → HOSE BIB GPH GALLONS PER HOUR GH ELBOW DOWN GPM GALLONS PER MINUTE O BATH TUB/SHOWER/MOP SINK GAS REGULATOR GR GUH GAS UNIT HEATER MISC. GW GREASE WASTE POINT OF CONNECTION GWH GAS WATER HEATER Ž—Ď 2-COMPARTMENT SINK HB HOSE BIB (POC) HP HEAT PUMP Õ—─── DRINKING FOUNTAIN/URINAL HX HEAT EXCHANGER IM ICE MAKER BOX LAV LAVATORY WASHER BOX LS LAUNDRY SINK MAU MAKE-UP AIR UNIT ICE BOX MC MECHANICAL CONTRACTOR MEASURE FLOW MF O WATER CLOSET STACK NOT IN CONTRACT NC NORMALLY CLOSED O WATER CLOSET NO NORMALLY OPEN NTS NOT TO SCALE OUTSIDE AIR GENERAL NOTES: ORD OVER FLOW ROOF DRAIN PUME . ALL ITEMS CONNECTING TO POTABLE WATER SHALL MEET THE LEAD FREE STANDARD PC PLUMBING CONTRACTOR OF .25% OR LESS LEAD. PFT PARALLEL FAN TERMINAL PLUMBING PLANS REFERENCE FINISHED FLOOR TO FINISHED FLOOR ABOVE. SANITARY PRV PRESSURE REDUCING VALVE SHOWN IS FOR FIXTURES ABOVE UNLESS NOTED OTHERWISE. PSI POUNDS PER SQUARE INCH FIELD VERIFY ALL ROUTING OF PLUMBING LINES WITH OTHER TRADES. FIELD ADJUST PRESSURE GAUGE PSIG ROUTING ACCORDINGLY TO MAKE SYSTEM WORK WITH OTHER TRADES. ΡV PLUG VALVE 4. PROVIDE ASSE1070 MIXING VALVE AT ALL PUBLIC FIXTURES AS REQUIRED PER LOCAL RA RETURN AIR CODE RAR RETURN AIR REGISTER 5. PC TO PROVIDE VACUUM BREAKERS AT LOCATIONS WHERE HOSES AND NOZZLES ARE RD ROOF DRAIN USE, I.E. JANITOR SINKS, BEAUTY SINKS, KITCHEN SPRAYERS, DISHWASHERS, AND RE RELOCATE EXISTING BATHS. INSTALL CHECK VALVES ON BOTH COLD AND HOT WATER LINES TO FIXTURE. RH RADIANT HEATER 6. ALL DRAINAGE LINES 2-1/2" AND UNDER TO BE SLOPED AT 1/4" PER FOOT, 3"-6" TO BE RTU ROOF TOP UNIT SLOPED AT 1/8" PER FOOT, AND 8" AND OVER TO BE SLOPED AT 1/16" PER FOOT UNLESS NOTED OTHERWISE. GREASE WASTE SHALL BE SLOPED AT 1/4" ONLY PER CODE. RVM RADON/VAPOR MITIGATION SA SUPPLY AIR START TRENCHING FOR NEW SANITARY LINE AT FURTHEST FIXTURE (HIGHEST POINT IN SAR SUPPLY AIR REGISTER SYSTEM) FROM CIVIL CONNECTION POINT TO BUILDING. FIELD ROUTE ALL CONDENSATE LINES, T&P VALVES, AND DRAIN VALVES FROM SF SUPPLY FAN MECHANICAL AND PLUMBING EQUIPMENT TO SANITARY SEWER RECEPTOR OR SET SERIES FAN TERMINAL STORM/GRADE PER LOCAL CODE AND JURISDICTION. SH SHOWER 9. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL HEIGHTS AND/OR LOCATIONS OF SK SINK SHOWER FIXTURES. SOI SAND/OIL INTERCEPTOR 10. WATER CLOSETS ON BEAMS OR COLUMNS TO BE OFFSET 18" OFF FINISHED WALL. SS SERVICE SINK 11. PEX PIPING IS AN APPROVED PIPING MATERIAL FOR DISTRIBUTION TO ALL FIXTURES OFF T&P TEMPERATURE & PRESSURE WATER MAINS. TRENCH DRAIN 12. DO NOT SECURE ANY PIPING TO EXPANSION JOINT WALLS. TYPICAL TYP 13. ENSURE THAT THE DOMESTIC HOT WATER PIPING AND COIL SERVING THE POOL AIR UR URINAL HANDLER REHEAT ARE OPEN DURING PIPING SYSTEM CHLORINATION BY KILLING THE VAV VARIABLE AIR VOLUME POWER TO THE VALVE DURING THE FLUSHING (IT WILL SPRING OPEN). VVT VARI TRAC 14. MC TO FURNISH AND INSTALL REFRIGERANT LINES BETWEEN ICE MACHINES AND THEIR WB WASHER BOX RESPECTIVE REMOTE CONDENSING UNITS. WC WATER CLOSET/WATER COLUMN WCO WALL CLEANOUT COLUMN WH WALL HYDRANT

CODE & DES	IGN CRITERIA		PLUMBING SHEET LIST
JURSIDICTION:	CASTLE ROCK, COLORADO	NUMBER	TITLE
PLUMBING CODE(S):	2018 IPC, IFGC, IECC	P0.01	PLUMBING SPECS & LEGENDS
LOCAL ADDENDUMS:	NO	P0.02	PLUMBING SCHEDULES
WATER PRESSURE:	80 PSI STATIC - WELL PUMP	P1.01	FLOOR PLAN - PLUMBING DEMO
GAS PRESSURE:	LESS THAN 2 PSI	P2.00	UNDERGROUND PLAN - PLUMBING
PEAK RAINFALL RATE:	3" PER HOUR	P2.01	FLOOR PLAN - PLUMBING
S-O-I DISCHARGE TO:	N/A	P2.02	ROOF PLAN - PLUMBING
ELEVATOR PUMP REQUIRED:	N/A	P5.01	WASTE & VENT ISOMETRIC
CONDENSATE DISCHARGE:	SANITARY	P5.05	PLUMBING DIAGRAMS
FULLY SPRINKLERED:	YES	SHEET TOTAL:	8
NUMBER OF FLOORS:	1		



PLUMBING	G FIX
NOTES:	
1. FIXTURES REQUIRING	G WATER S
2. ALL PUBLIC LAVATOR	IES TO HA
3. ALL FIXTURES TO BE	PROVIDE
4. ALL INSTALLATIONS S	SHALL CON
5. PROVIDE BACKFLOW	PROTECT
6. TRIP LEVERS SHALL E	BE TO WID
7. GOOSE NECK FAUCE	TS TO BE I
8. PROVIDE TRIM KIT ON	
9. ANY FIXTURES WITH I	
ALTERNATE MFR'S.: ACC	
PLAN MARK	ADA
EWC-1	YES
FD-1 FS-1	NO
LAV-1	NO YES
	YES
LAV-2	YES
	YES
MSB-1	NO
SK 2	NO
SK-2	YES YES
WB-1	NO
WC-1	NO
	YES
WC-2	113
WC-2 WC-3	NO

IXTURE SCHEDULE

ER SENSE LISTING PER JURISDICTION: TANK TYPE WATER CLOSETS, PRIVE USE LAVATORY FAUCETS, SHOWER HEADS INCLUDING HAND HELD, AND URINALS.

O HAVE OPEN GRID STRAINERS AND BE PROVIDED WITH ASSE1070 MIXING VALVE., PRIVATE LAVATORIES TO HAVE POP-UP STRAINERS.

(IDED W/ FLEXIBLE WATER LINES, 1/4 TURN ANGLE STOPS (INCLUDING DISHWASHER CONNECTIONS), TRAP WRAP, ESCUTCHEON PLATES AS REQUIRED PER FIXTURE INSTALL AND CODE.

COMPLY WITH MANUFACTURER'S INSTRUCTIONS, AND STATE AND LOCAL CODES. ECTION ON FIXTURES AS REQUIRED PER LOCAL CODE.

WIDE/OPEN SIDE OF TOILET.

BE PROVIDE WITH SPOUT SWIVEL RESTRICTION SETTING OR SHALL BE SET STATIONARY WITHOUT SWIVEL.

N SHOWER FLANGE OR EXTEND FINISHING DRYWALL OVER FLANGE AS REQUIRED AT RATED WALLS.

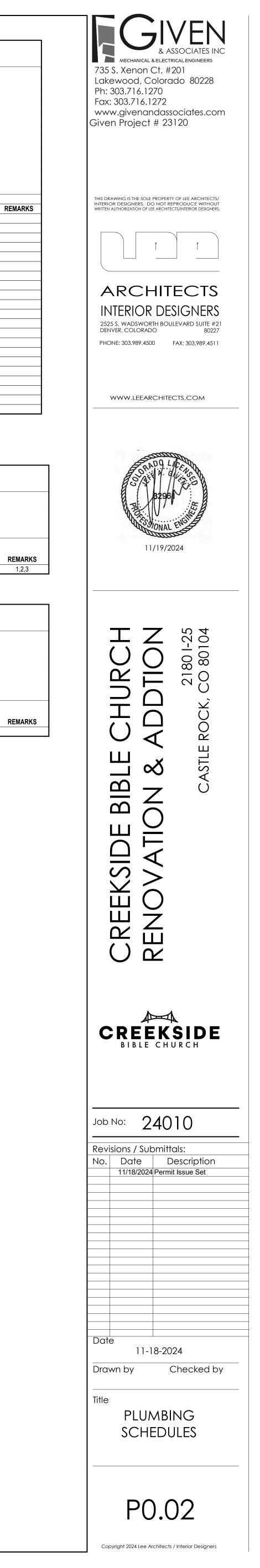
NTIAL OF WATER SYSTEMS CROSSING DUE TO FAUCET REMAINING OPEN WHEN NOT IN USE SHALL BE PROVIDED WITH INLINE CHECK VALVES ON SUPPLY LINES.

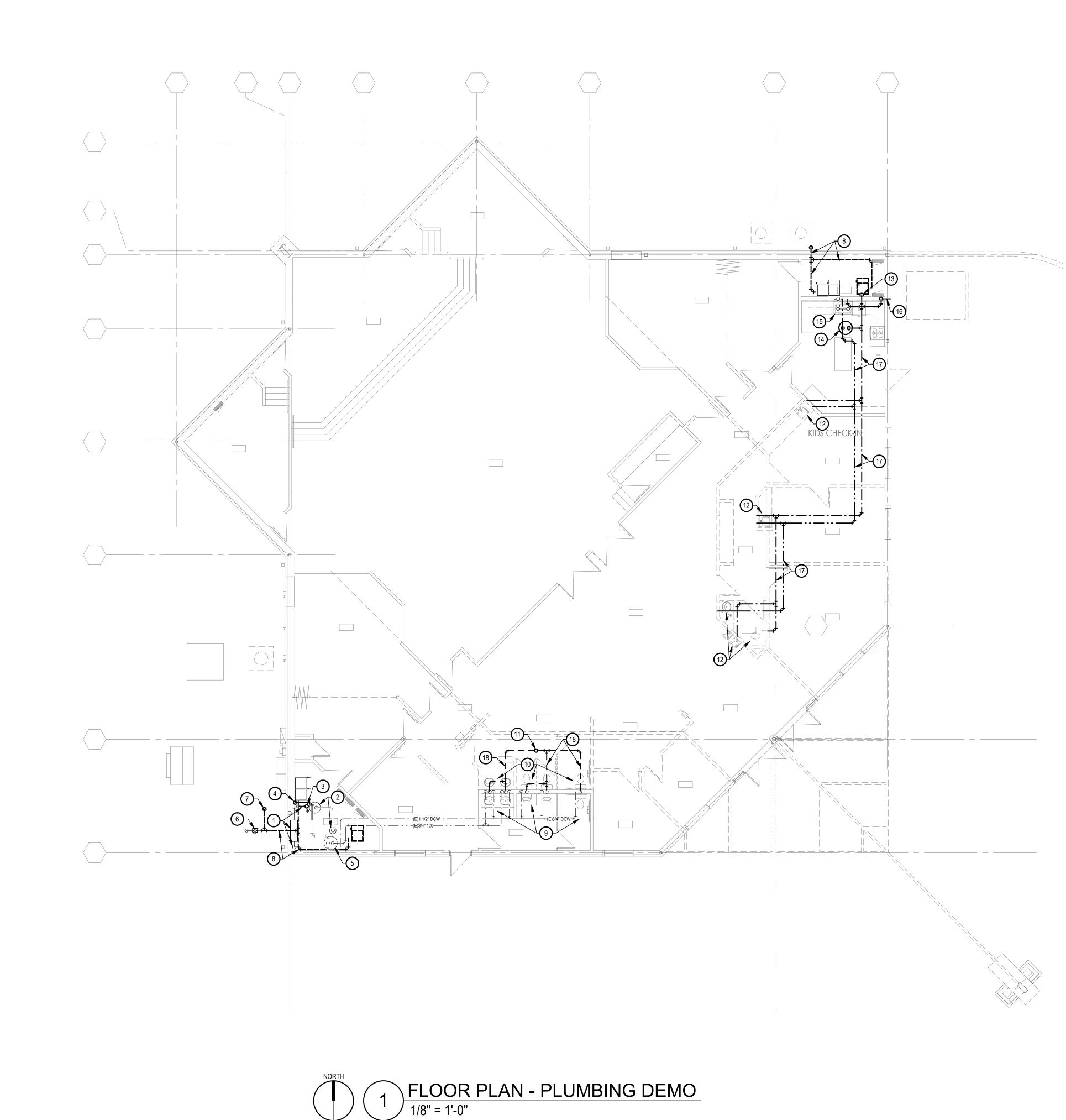
MERICAN STANDARD, CRANE, DELTA, ELKAY, HAWS, HALSEY TAYLOR, J.R.SMITH, KOHLER, LASCO, MOEN, SIOUX CHIEF, STING RAY, SYMMONS, TOTO, WADE, ZURN.

		CONNECTION SIZE	E (IN)			FIXTURE									
ADA	DESCRIPTION	DCW	DHW	WASTE	VENT	MANUFACTURER	MODEL NAME	MODEL #	FLOW RATE	DIMENSIONS (IN)	MOUNTING	RIM HEIGHT (IN)	FINISH	MISC	REMARKS
YES	ELECTRIC WATER COOLER	1/2"	-	1-1/2"	1-1/2"	ELKAY	EZH2O	LZSTL8WSSP		36-3/4"x19"x39-1/2"	WALL		STAINLESS STEEL	120V/1 POWER, 370 WATTS, 5 AMPS, ELECTRONIC BOTTLE FILLER, FRONT & SIDE PUSHPARS, VISUAL FILTER MONTIOR	
	WALL HANGER					ZURN		Z1225			FLOOR		DURA-COATED STEEL	TOP & BOTTOM PLATES, WELDED STEEL UPRIGHTS & FEET, ADJUSTABLE SUPPORT PLATES, MOUNTING FASTYENERS	
NO	FLOOR DRAIN			2"	2"	ZURN		ZN415B-VP		5" DIA. STRAINER	FLOOR		NICKEL BRONZE	DURA COATED CAST IRON BODY, VANDAL-PROOF SECURED TOP, PROVIDE WITH TRAP GUARD	
NO	FLOOR SINK			2"	2"	ZURN		ZN-1901-2-VPS		12"X12"x11-1/8"	FLOOR		NICKEL BRONZE	DURA COATED CAST IRON BODY, VANDAL-PROOF STRAINER, PROVIDE WITH TRAP GUARD	
YES	DROP-IN LAVATORY			2"	2"	AMERICAN STD	AQUALYN	0476.028		20-3/8"X17-3/8", 16"x10"x5-5/8" BOWL	DROP-IN		WHITE VITREOUS CHINA	3-HOLE, 4" CENTERS, FRONT OVERFLOW	
YES	FAUCET	1/2"	1/2"			AMERICAN STD	INNSBROOK SELECTRONIC	6055.204	0.35 GPM	4-9/16" SPOUT	DECK		POLISHED CHROME	BATTERY POWERED IR SENSOR FAUCET, PROVIDE WITH LEONARD S-170A-LF MIXING VALVE	
YES	WALL MOUNT LAVATORY			2"	2"	AMERICAN STD	DECLYN	0321.075			WALL		WHITE VITREOUS CHINA	3-HOLE, 4" CENTERS, FRONT OVERFLOW	
YES	FAUCET	1/2"	1/2"			AMERICAN STD	INNSBROOK SELECTRONIC	6055.204	0.35 GPM	4-9/16" SPOUT	DECK		POLISHED CHROME	BATTERY POWERED IR SENSOR FAUCET, PROVIDE WITH LEONARD S-170A-LF MIXING VALVE	
	WALL HANGER					ZURN		Z1231			FLOOR		DURA-COATED STEEL	CONCEALED ARMS SUPPORT SYSTEM, ADJUSTABLE HEADERS, MOUNTING FASTENERS	
NO	MOP SERVICE BASIN			3"	2"	FIAT	MOLDED STONE	MSBID2424		24"x10"x10"	FLOOR		WHITE	PROVIDE WITH 832AA HOSE & HOSE BRACKET, 889CC, MOP HANGER & MSG2424 STAINLESS STEEL WALL GUARD	
NO	SINK FAUCET					FIAT		830-AA	2.2 GPM	8" CENTERS	WALL		POLISHED CHROME	VACUUM BREAKER, INTERGRAL STOPS, ASJUSTABLE WALL BRACE, PAIL HOOK	
YES	1-COMPARTMENT SINK	-	-	1-1/2"	1-1/2"	ELKAY	CELEBRITY	BCR15		15"x15"c6-1/8", 12"x10"x6" BOWL	DROP-IN			2-FAUCET HOLE, 4" CENTERS, CENTER DRAIN, BOTTOM ONLY SOUND PADS	
YES	SINK FAUCET	1/2"	1/2"			MOEN		4903 SERIES	1.5 GPM	10-1/2" GOOSENECK SPOUT	DECK		POLISHED CHROME	MINI BLADE HANDLES W/HOT & COLD INDICATORS	
NO	SUPPLY WALL BOX	1/2"	-	-	-	SIOUX CHIEF	OX BOX	696-G1010CF		5-3/4"X7-1/4"X3-1/2"	WALL		WHITE FIRE-RATED ABS	1/4 TURN VALVE W/SHOCK ARRESTER	
NO	WATER CLOSET	1/2"		3"	2"	AMERICAN STD	CADET 3	270CA.101	1.28 GPF	30-3/16"x15-13/16"x30-11/16", 12" ROUGH-IN	FLOOR	16-1/2"	WHITE VITREOUS CHINA	SIPHON JET FLUSH, CHROME TRIP LEVER	
	SEAT					AMERICAN STD		5901.100			BOWL		WHITE PLASTIC	ELONGATED OPEN FRONT SEAT LESS COVER	
YES	WATER CLOSET	1/2"		3"	2"	AMERICAN STD	CADET 3	270AA.101	1.28 GPF	30-3/16"x15-13/16"x30-11/16", 12" ROUGH-IN	FLOOR	16-1/2"	WHITE VITREOUS CHINA	SIPHON JET FLUSH, CHROME TRIP LEVER	
	SEAT					AMERICAN STD		5901.100			BOWL		WHITE PLASTIC	ELONGATED OPEN FRONT SEAT LESS COVER	
NO	CHILD HEIGHT WATER CLOSET	1/2"		3"	2"	AMERICAN STD	BABY DEVORO	2315.228	1.28 GPF	25"x17-1/4"x24-1/2", 10" ROUGH-IN	FLOOR	10-1/4"	WHITE VITREOUS CHINA	ROUND FRONT SIPHON ACTION, CHROME TRIP LEVER	
	SEAT					AMERICAN STD	BABY DEVORO	5001G.055			BOWL		WHITE PLASTIC	OPEN FRONT SEAT LESS COVER	
	WALL HYDRANT	3/4"	-	-	-	WOODFORD		B67		7-1/2"x6-1/2"x2-5/8" BOX, 10-1/2" SHANK	WALL		CHROME	VACUUM BREAKER, DUAL INDEPENDENT CHECK VALVES, LOOSE TEE KEY OPERATION	

PLUMBIN	NG PUMP S	SCHEDUL	Ε								
REMARKS:											
(1) 3-SPEED PUMP, S	PEED SETTING 2, INTERL	OCK WITH AQUASTAT,	SET TO MAINTAIN 120F	F ADJ.							
(2) CANNED ROTOR	PUMP, CERAMIC SHAFT &	BEARINGS, STAINLES	S STEEL ROTOR CAN &	BEARING PLATE, CORROSI	ON RESISTANT	IMPELLER, STAINL	ESS STEEL PUMP	HOUSING.			
(3) PROVIDE ALL VAL	VES REQUIRED PER LOC	AL CODE ON PIPING.									
				DIFFERENTIAL		ELECTRICAL	DATA			OPERATING	
PLAN MARK	MANUFACTURER	MODEL #	FLOW RATE (GPM)	PRESSURE (FTHD)	RPM	VOLTS	PHASE	HP	WATTS	WEIGHT (LBS)	REMARKS
CP-1	GRUNDFOS	UPS 15-35 SFC	2	6	1750	120	1		84		1,2,3

ELECTR	IC WATER	HEATER	SCHEDU	_E							
REMARKS:											
(1) PROVDE 2 1/2" DE	EEP DRAIN PAN. ROUTE 3/4	4"DRAIN TO FLOOR S	SINK.								
(2) 3YR LIMITED TAN	IK & PARTS WARRANTY. N	O ANODE RODS, & H	ARD WATER/SCALE OR	RUST IN SYSTEM SHALI	L NOT VOID WARRANT	Y.					
(3) 1ST YR SHALL CO	OVER ANY FREIGHT, PART	S, DIAGNOSTICS, AN	D LABOR WITH ANY WA	TER HEATER ISSUES, P	ROVIDED BY MANUFA	CTURER.					
(4) STARTUPS TO BE	PERFORMED BY FACTOR	Y AUTHORIZED REP	RESENTATIVE THEN SU	BMITTED TO DESIGN EN	NGINEER FOR APPRO	/AL.					
(5) SET WATER HEAT	FER TO MAINTAIN SET POI	NT OF 120F (ADJUST	ABLE).								
			NOMINAL TANK		TEMPERATURE	ELECTRICAL DAT	A			OPERATING	
PLAN MARK	MANUFACTURER	MODEL #	VOLUME (GAL)	RECOVERY RATE (GPH)	RISE (°F)	VOLTS	PHASE	WATTS	FLA	WEIGHT (LBS)	REMARKS
EWH-1	A.O. SMITH	DEL-30	33	23	80	208 V	3	4500	12.5	418	

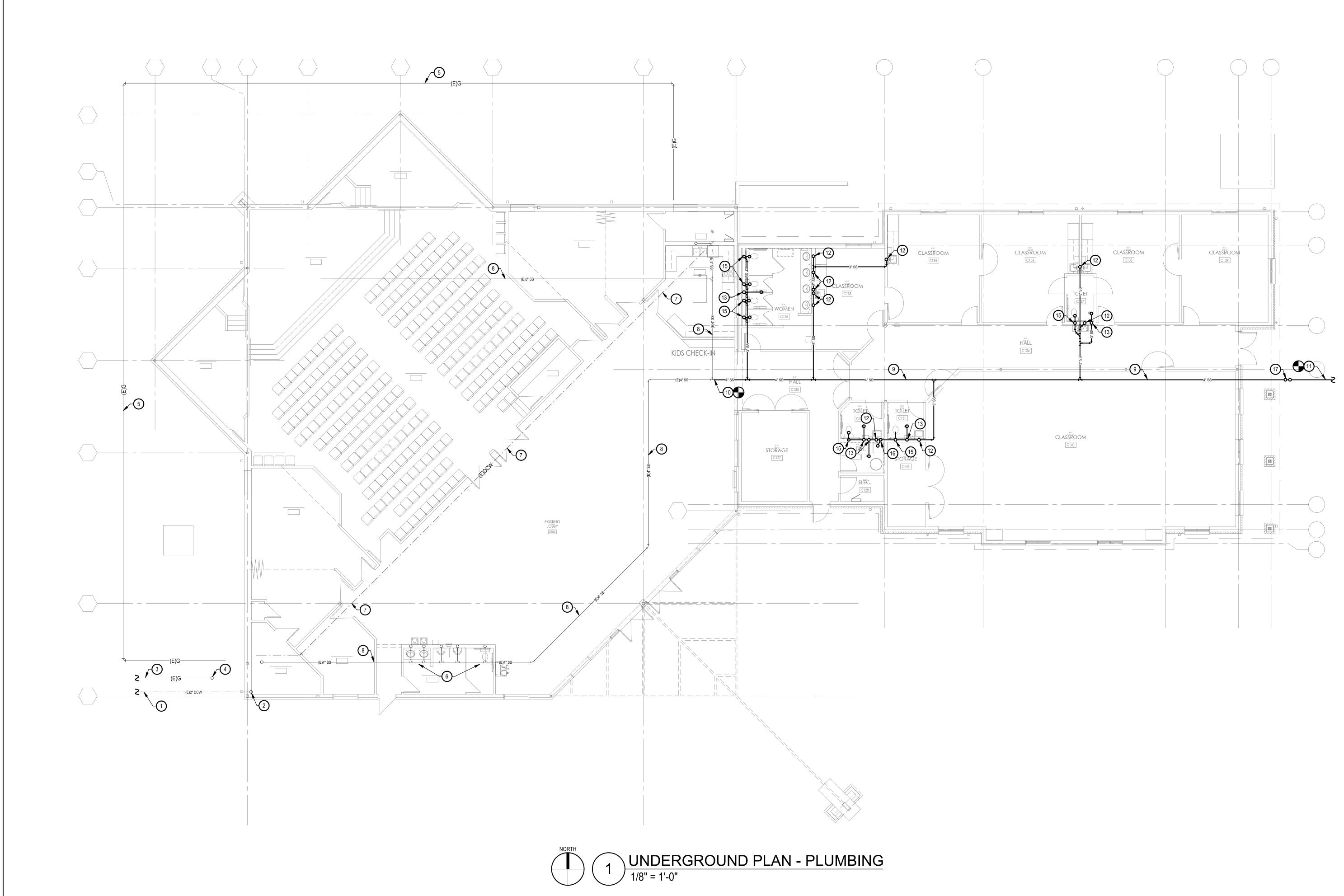




DF	AWING NOTES:
1.	PLUMBING PLANS ARE BASED ON ORIGINAL BUILDING PLANS DATED 05/31/2002 & LIMITED SITE SURVEY CONDUCTED ON 11/20/2023. PC SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON WHICH NEW WORK IS DEPENDENT INCLUDING PIPE SIZE, MATERIAL, LOCATION & ELEVATION/INVERT PRIOR TO STARTING WORK.
2.	ALL EXISTING ROOF DRAINAGE PIPING SHALL REMAIN IN PLACE AND IN SERVICE FOR EXISTING BUILDING UNLESS OTHERWISE NOTED. ALL ROOF DRAINAGE FOR ADDITION TO BE HANDLED BY ARCHITECTURAL GUTTERS & DOWNSPOUTS. COORDINATE DOWNSPOUT CONNECTIONS WITH BELOW GRADE STORM PIPING. SEE CIVIL SHEET C6.0 FOR DOWNSPOUT CONNECTION LOCATIONS.
3.	ALL SANITARY SEWER PIPING TO BE SLOPED TO COMPLY WITH IPC TABLE 704.1.
4.	NATURAL GAS PIPING IS BASED ON 2018 IFGC TABLE 402.4(2), 6" W.C. OUTLET PRESSURE, 0.5" W.C. PRESSURE DROP, 400' TOTAL EQUIVALENT LENGTH OF PIPING.
<u> KE</u>	Y NOTES:
	(E)2" DOMESTIC WATER ENTRY W/(E)WELL PUMP ASSEMBLY & (E)2"REDUCED PRESSURE BACKFLOW PREVENTER SHALL REMAIN IN SERVICE.
2	(E)WATER SOFTENER TANKS & CONTROLS SHALL REMAIN.
3	REMOVE (E)1-1/2"DCW PIPING FROM BACKFLOW TO WATER SOFTENER SYSTEM FOR REPLACEMENT. REMOVE (E)1-1/2"DCW PIPING FROM WATER SOFENER OUTLET TO POINTS SHOWN FOR REPLACEMENT. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
4	REMOVE (E)1-1/4"DCW VALVED BRANCH PIPING ROUTING THRU SLAB IN THIS AREA. BELOW SLAB DCW PIPING SHALL BE DRAINED, CAPPED & ABANDONED IN PLACE.
5	(E)ELECTRIC WATER HEATER & ALL ASSOCIATED PIPING, VALVES & FITTINGS SHALL REMAIN, NO WORK.
6	(E)GAS METER ASSEMBLY SHALL REMAIN.
7	REMOVE (E)GAS BRANCH PIPING ROUTING DOWN THRU GRADE. BELOW GRADE GAS PIPING SHALL BE PURGED, CAPPED & ABANDONED IN PLACE.
8	REMOVE (E)GAS BRANCH PIPING INTO MECHANICAL ROOM SERVING (E)EQUIPMENT FOR REPLACEMENT. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
9	(E)PLUMBING FIXTURES & ASSOCIATED DOMESTIC WATER, WASTE & VENT PIPING IN THIS AREA SHALL REMAIN. REMOVE (E)VENT PIPING ABOVE WALL LEVEL.
10	(E)PLUMBING FIXTURES IN THIS AREA SHALL BE REMOVED. ALL DOMESTIC WATER & WASTE STUBS TO FIXTURES IN WALL/FLOOR SHALL BE CAPPED & SEALED WATER TIGHT.
	REMOVE (E)3"V UP THRU ROOF TO (D)3"VTR. ROOF REPAIR BY GC.
12	(E)PLUMBING FIXTURES & ASSOCIATED DOMESTIC WATER, WASTE & VENT PIPING IN THIS AREA SHALL BE REMOVED. CAP WASTE PIPING BELOW SLAB AT MAINS.
13	REMOVE (E)1-1/4"DCW VALVED BRANCH PIPING ROUTING UP THRU SLAB IN THIS AREA. BELOW SLAB DCW PIPING SHALL BE DRAINED, CAPPED & ABANDONED IN PLACE.
14	REMOVE (E)ELECTRIC WATER HEATER & ASSOCIATED VALVES, FITTINGS & PIPING ABOVE CEILING.
15	(E)SINK & ASSOCIATED WASTE & VENT PIPING SHALL REMAIN UP IN WALL/DN THRU SLAB REMOVE (E)DOMESTIC WATER BRANCH PIPING FOR REPLACEMENT.
(16)	REMOVE (E)WALL HYDRANT & ASSOCIATED PIPING.
(17)	REMOVE (E)DOMESTIC WATER PIPING ABOVE CEILING.
18	REMOVE (E)VENT PIPING ABOVE CEILING IN THIS AREA.



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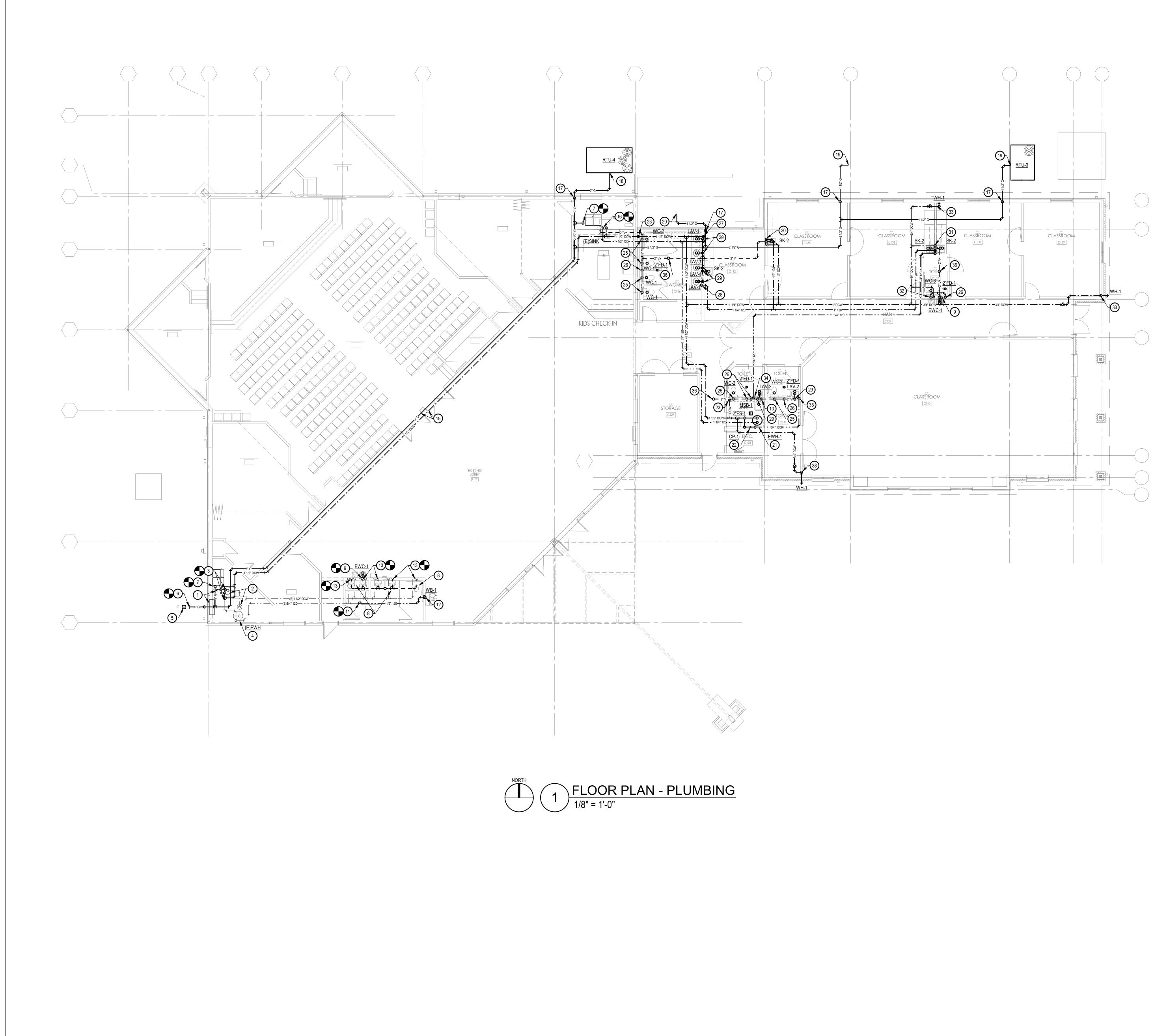


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KEY NOTES:

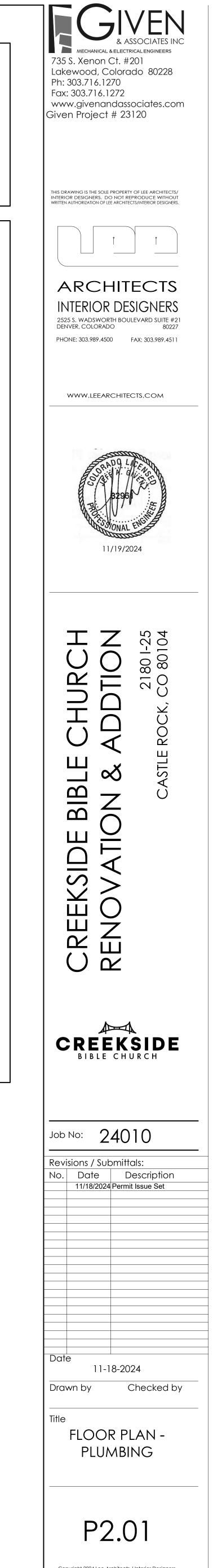
- (1) (E)2" DOMESTIC WATER SERVICE FROM (E)WELL SHALL REMAIN. (2) (E)2" DOMESTIC WATER SERVICE UP THRU SLAB SHALL REMAIN. (E)NATURAL GAS SERVICE BY BLACK HILLS ENERGY SHALL REMAIN. (E)NATURAL GAS PIPING UP THRU GRADE TO (E)GAS METER ASSEMBLY SHALL REMAIN. 5 BELOW GRADE (E)GAS PIPING SHALL BE PURGED, CAPPED & ABANDONED IN PLACE. (6) (E)SANITARY PIPING SERVING (E)PLUMBING FIXTURES IN THIS AREA SHALL REMAIN. (E)DOMESTIC WATER PIPING BELOW SLAB SHALL BE DRAINWESD, CAPPED & ABANDONED IN PLACE. (8) (E)SANITARY PIPING BELOW SLAB IN THIS AREA SHALL REMAIN. (9) REMOVE (E)SANITARY LINE IN THIS AREA & REPLACE W/(N)4"SS BELOW SLAB/GRADE. (10) CONNECT 4"SS TO (E)4"SS BELOW SLAB AT LOCATION SHOWN. 4"SS BELOW GRADE. CONNECT TO (E)REMOTE SEPTIC TANK. FIELD VERIFY EXACT TANK LOCATION & CONNECTION POINTS PRIOR TO STARTING WORK. (12) 2"SS DN THRU SLAB FROM ABOVE. (13) 2"V UP THRU SLAB FROM 2"FLOOR DRAIN/FLOOR SINK WASTE CONNECTION. (14) 2"V UP THRU SLAB FROM 4"FLOOR DRAIN WASTE CONNECTION. (15) 2"V UP THRU SLAB FROM 3"WATER CLOSET WASTE CONNECTION. (16) 2"V UP THRU SLAB FROM 3" MOP SINK WASTE CONNECTION.
- 17 2-WAY 4" GRADE CLEANOUT.



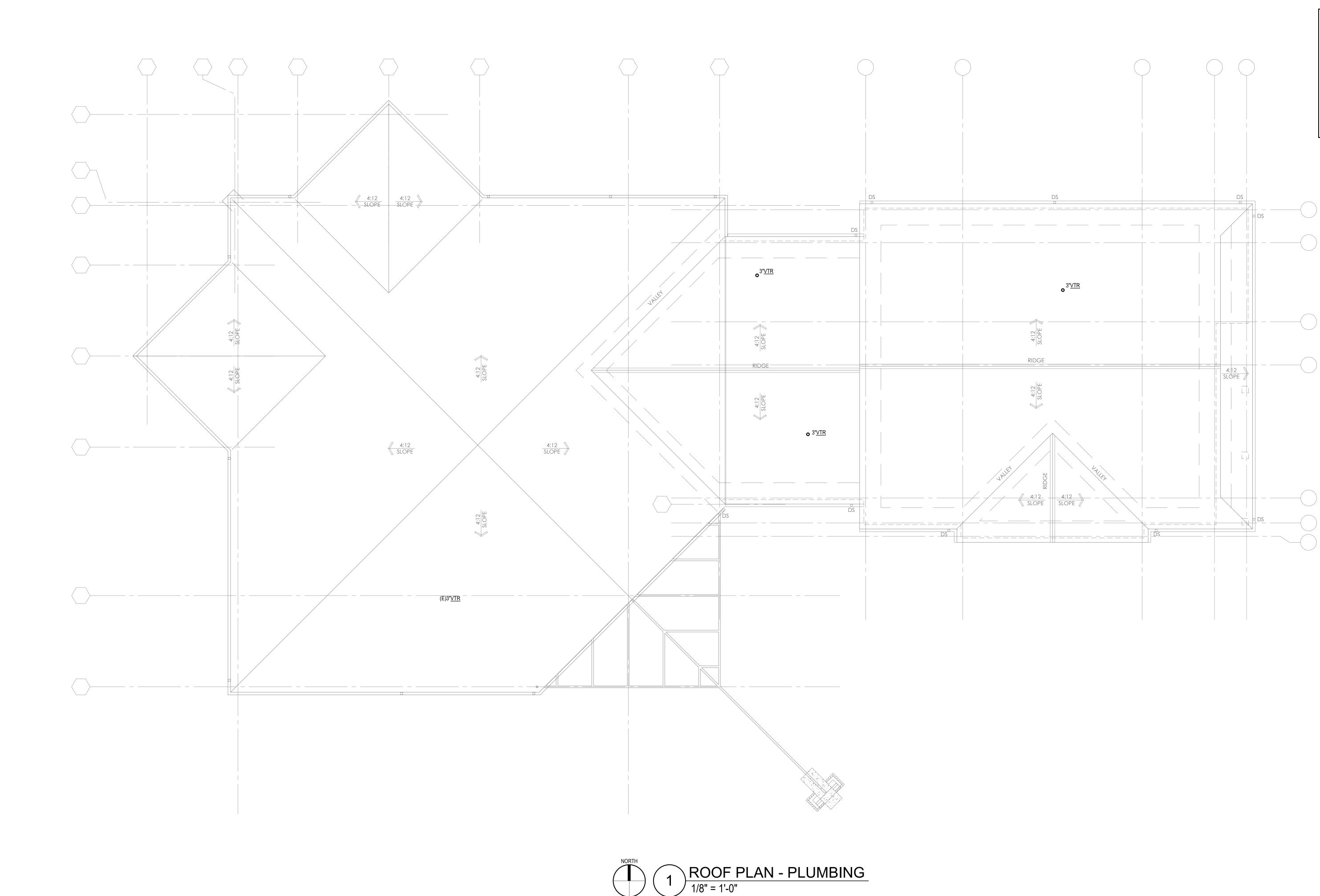


DRAWING NOTES: PLUMBING PLANS ARE BASED ON ORIGINAL BUILDING PLANS DATED 05/31/2002 & LIMITED SITE SURVEY CONDUCTED ON 11/20/2023. PC SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON WHICH NEW WORK IS DEPENDENT INCLUDING PIPE SIZE, MATERIAL, LOCATION & ELEVATION/INVERT PRIOR TO STARTING WORK. ALL EXISTING ROOF DRAINAGE PIPING SHALL REMAIN IN PLACE AND IN SERVICE FOR EXISTING BUILDING UNLESS OTHERWISE NOTED. ALL ROOF DRAINAGE FOR ADDITION TO BE HANDLED BY ARCHITECTURAL GUTTERS & DOWNSPOUTS. COORDINATE DOWNSPOUT CONNECTIONS WITH BELOW GRADE STORM PIPING. SEE CIVIL SHEET C6.0 FOR DOWNSPOUT CONNECTION LOCATIONS. ALL SANITARY SEWER PIPING TO BE SLOPED TO COMPLY WITH IPC TABLE 704.1. NATURAL GAS PIPING IS BASED ON 2018 IFGC TABLE 402.4(2), 6" W.C. OUTLET PRESSURE, 0.5" W.C. PRESSURE DROP, 400' TOTAL EQUIVALENT LENGTH OF PIPING. KEY NOTES: (E)2" DOMESTIC WATER ENTRY W/(E)WELL PUMP ASSEMBLY & (E)2"REDUCED PRESSURE BACKFLOW PREVENTER SHALL REMAIN IN SERVICE. (2) (E)WATER SOFTENER TANKS & CONTROLS SHALL REMAIN. 3 EXTEND & CONNECT 2"DCW W/BYPASS FULL SIZE TO (E)FILTER & (E) WATER SOFTENER CONNECTIONS. RECONFIGURE BRANCH PIPING DOWNSTREAM OF SOFTENER TO CONNECT TO (E)ELECTRIC WATER HEATER SERVING MEN'S BATHROOM & BAPTISTRY BACKFLOW PREVENTER & SERVICE LINE. (E)ELECTRIC WATER HEATER & ALL ASSOCIATED PIPING, VALVES & FITTINGS SHALL REMAIN, NO WORK. (5) (E)GAS METER, SERVICE REGULATOR, VALVES, ETC. SHALL REMAIN. (N)TOTAL CONNECTED GAS LOAD = 1476.0 MBH/ 1776 CFH. P.C. SHALL COORDINATE WITH BLACK HILLS ENERGY ANY REQUIRED ADJUSTMENT/REPLACEMENT OF GAS METER TO ACCOMODATE (N)GAS LOAD. 6 CONNECT 4"G (1476.0 MBH/ 1776 CFH) TO (E)GAS LINE AT POINT SHOWN. 7 2"G (264.0 MBH/ 318 CFH) DN TO (E)FURNACES. CONNECT TO EACH FURNACE INLET W/UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM. (E)PLUMBING FIXTURES & ASSOCIATED DOMESTIC WATER, WASTE & VENT PIPING IN THIS AREA SHALL REMAIN. 9 INSTALL <u>EWC-1</u> AT LOCATION SHOWN. CONNECT 1/2"DCW FROM (E)DCW IN WALL TO WATER COOLER SUPPLY CONNECTION. CONNECT 2" WATER COOLER DRAIN TO (E)2"SS SERVING LAVATORY IN WALL. (10) 2"V UP IN WALL & DN THRU FLOOR TO 2"MOP SINK WASTE CONNECTION. (11) CONNECT 1/2"DHW TO (E)3/4"DHW ABOVE CEILING. 12 1/2"DHW DN IN WALL TO <u>WB-1</u> SUPPLY CONNECTION. (13) CONNECT 2"V TO (E)VENT RISERS FROM EXISTING FIXTURES ABOVE CEILING. (14) 3"V UP THRU ROOF TO 3"<u>VTR</u>. 15 ROUTE 2"DCW & 3"G (1212.0 MBH/ 1458 CFH) AS HIGH AS POSSIBLE IN ARCHITECTURAL SOFFIT ACROSS (E)LOBBY. (E)SINK & ASSOCIATED WASTE & VENT PIPING SHALL REMAIN UP IN WALL/DN THRU SLAB.. 1/2"DCW & 1/2"DHW DN IN WALL TO (E)SINK FAUCET CONNECTIONS. CONNECT (E)2"V RISE TO 2"V ABOVE CEILING. 17 ROUTE GAS PIPING DN IN EXTERIOR WALL & OFFSET OUT THRU WALL AT MINIMUM 18"A.F.G. SUPPORT GAS PIPING EVERY 10'-0" O.C., MAXIMUM, SEE DIAGRAM. (18) CONNECT 2"G (350.0 MBH/ 421 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG, SEE DIAGRAM. (19) CONNECT 1-1/2"G (224.0 MBH/ 270 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG, SEE DIAGRAM. 20 CONNECT 1-1/2"G (150.0 MBH/ 181 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG, SEE DIAGRAM. 21 INSTALL <u>EWH-1</u> AT LOCATION SHOWN. 1-1/4"DCW & 1-1/4"DHW TO WATER HEATER CONNECTIONS. SEE DIAGRAM. (22) RECIRCULATION PUMP MOUNTED ON WALL. 23 1"DCW DN IN WALL TO FULL SIZE HEADER. OFFSET HEADER IN WALL & CONNECT TO FIXTURES AS REQUIRED. 24 2"V UP IN WALL & DN THRU FLOOR TO 4"FLOOR DRAIN WASTE CONNECTION. (25) 2"V UP IN WALL & DN THRU FLOOR TO 3"WATER CLOSET WASTE CONNECTION. 26 2"V UP IN WALL & DN THRU FLOOR TO 2"FLOOR SINK/DRAIN WASTE CONNECTION. 27 1"DCW & 1-1/4"DHW DN IN WALL TO FULL-SIZE HEADERS. EXTEND HEADERS IN WALL & CONNECT TO LAVATORY MIXING VALVES/SINK FAUCET CONNECTIONS AS REQUIRED. 28 CONNECT 1-1/4"DHW TO HEADER DOWNSTREAM OF LAST FIXTURE CONNECTION & RISE UP IN WALL. OFFSET ABOVE CEILING. 29 2"V UP IN WALL, 2"SS DN THRU FLOOR.

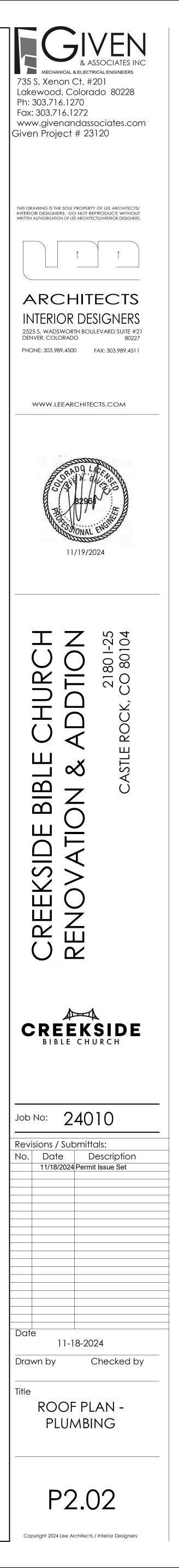
- 30 1/2"DCW & 1/2"DHW DN IN WALL TO SINK FAUCET CONNECTIONS. 2"V UP IN WALL, 2"SS DN THRU FLOOR. 31 3/4"DCW, 1"DHW & 3/4"DHW DN IN WALL. ROUTE 1/2"DCW & 1/2"DHW BRANCHES TO SINK FAUCET CONNECTIONS. CONNECT 3/4"DHW TO 1"DHW DOWNSTREAM OF BRANCH CONNECTIONS TO FORM CIRCULATED LOOP. 2"V UP IN WALL, 2"SS DN THRU FLOOR. 32 1/2"DCW DN IN WALL TO WATER CLOSET SUPPLY CONNECTION. 2'V UP IN WALL & DN THRU FLOOR TO 3"WATER CLOSET WASTE CONNECTION.
- 33 3/4"DCW DN IN WALL TO <u>WH-1</u> SUPPLY CONNECTION AT MINIMUM 18"A.F.G.
- 34 3/4"DHW DN IN WALL TO FULL-SIZE HEADER. OFFSET HEADER IN WALL & CONNECT TO LAVATORY MIXING VALVES AS REQUIRED. 35 CONNECT 3/4"DHWR TO DHW HEADER DOWNSTREAM OF LAST FIXTURE CONNECTION & RISE UP IN WALL. OFFSET ABOVE CEILING.
- 36 3"V UP THRU ROOF TO 3"<u>VTR</u>. SEE DIAGRAM.

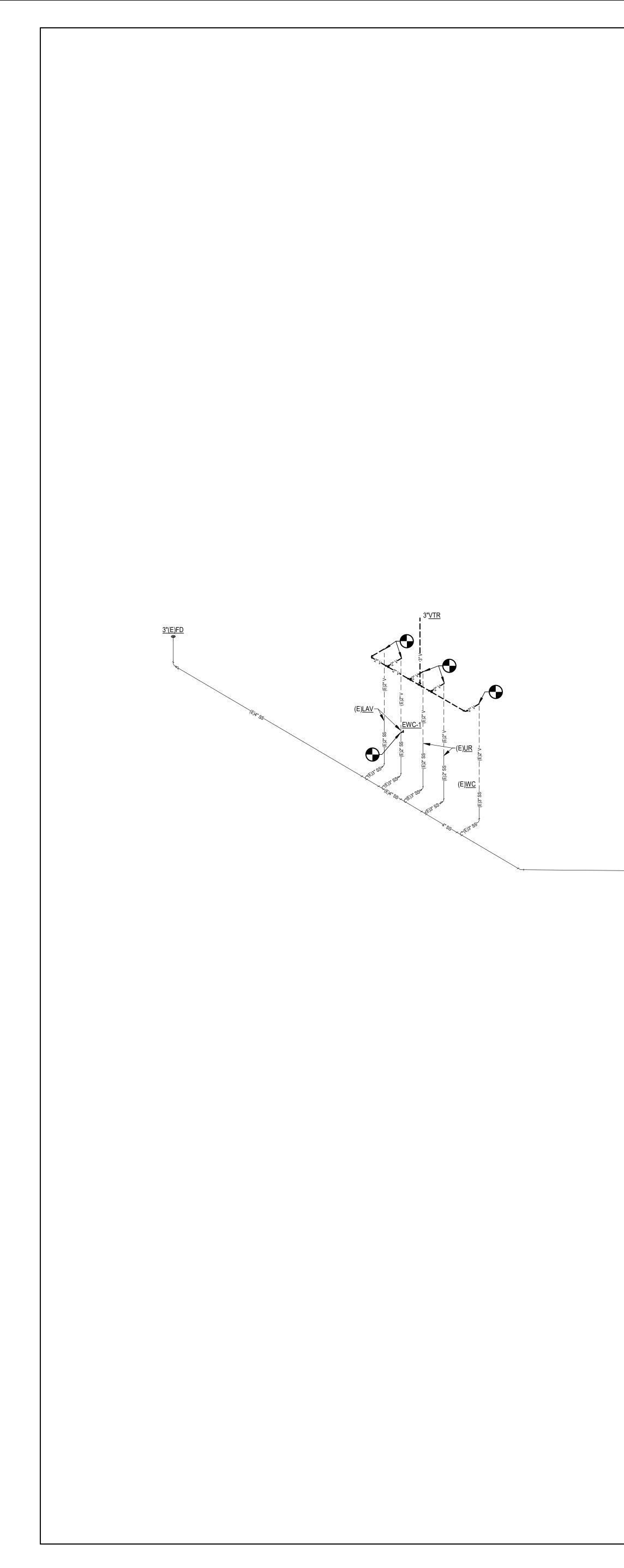


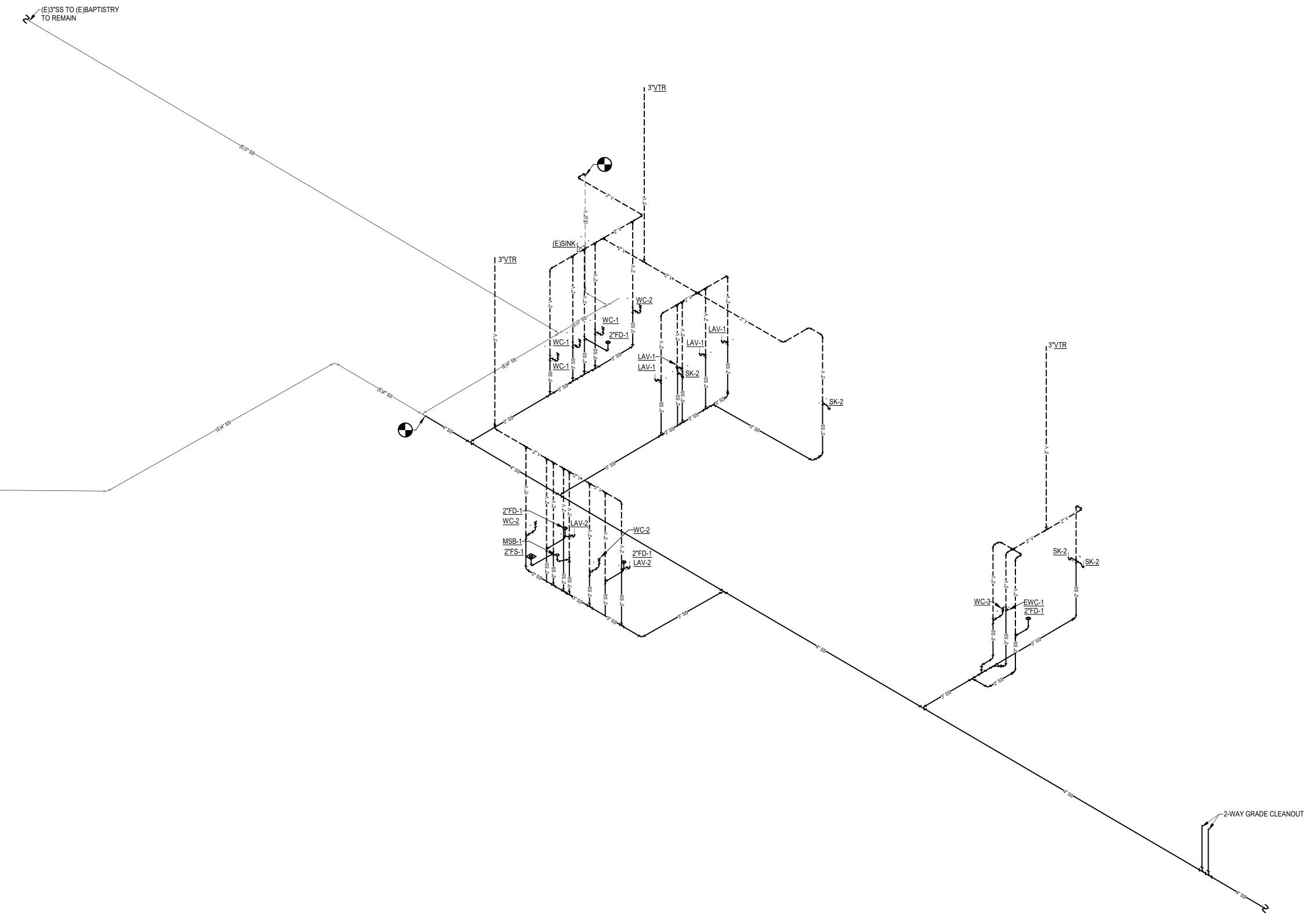
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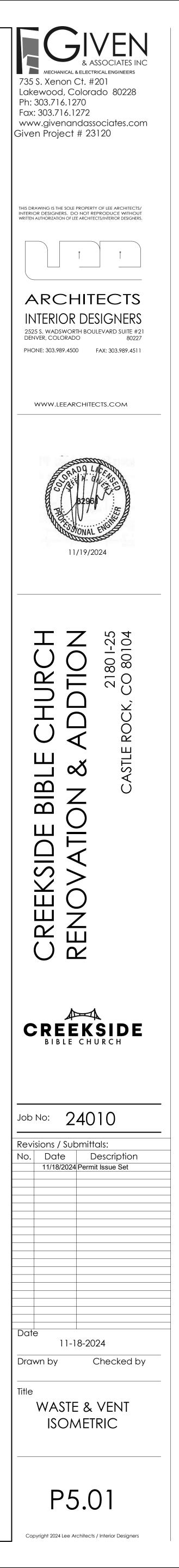


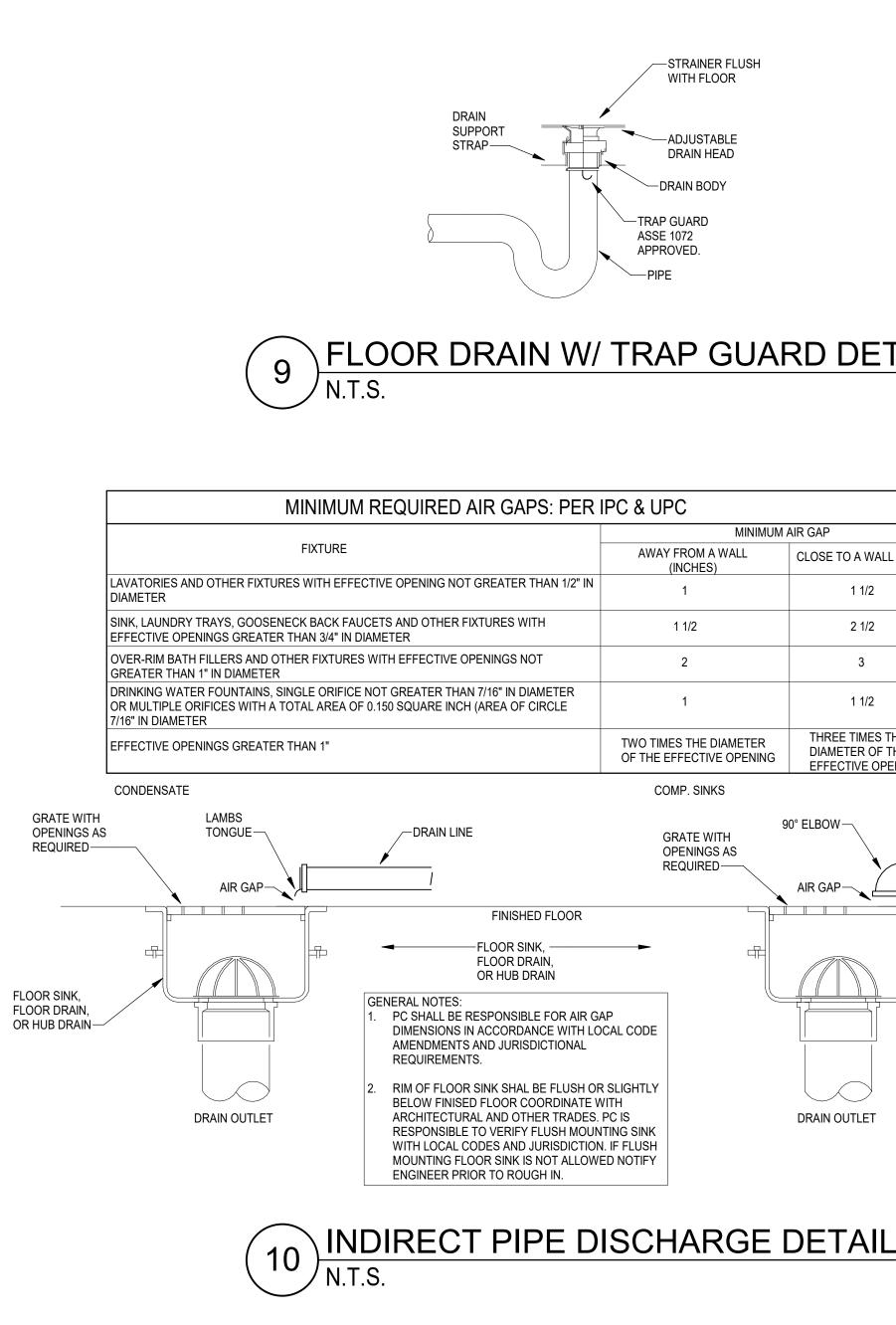


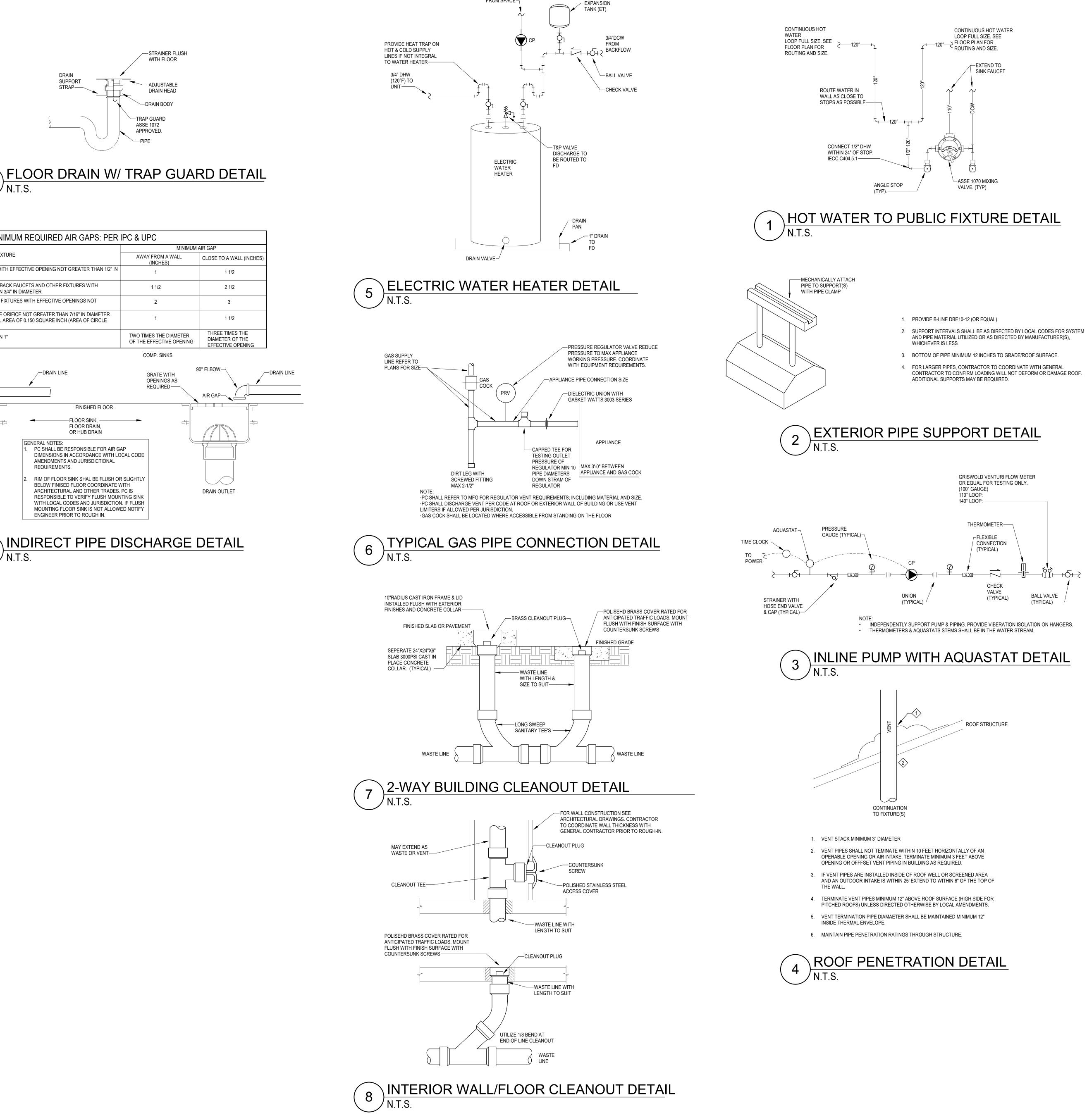




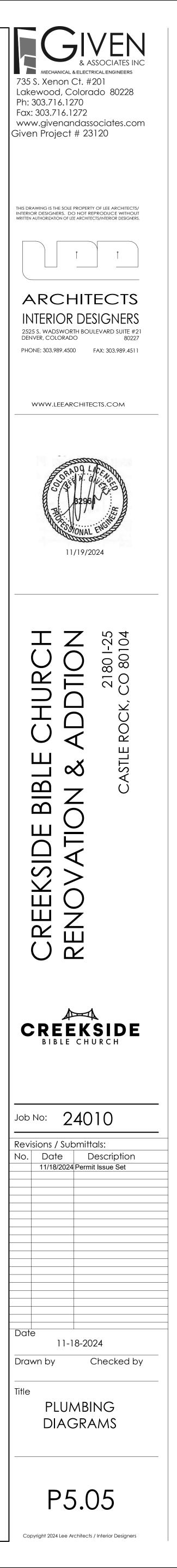
1 WASTE & VENT ISOMETRIC N.T.S.







3/4" DHWR FROM SPACE-





			ELECTRIC	CAL SYMBO	L LEGEND			AI	BBREVIATIONS
Φ	SIMPLEX RECEPTACLE		DOWNLIGHT	Ø	MOTOR			x' x"	MOUNTING HEIGHT
-	DUPLEX RECEPTACLE	0	(CEILING MTD)	с Г	DISCONNECT SWITCH (NON-FUSED)	2 5	PAD MOUNTED UTILITY TRANSFORMER	A / AMP	AMPERE
φ	(WALL MTD)	\diamond	WALL WASHER (CEILING MTD)		DISCONNECT SWITCH		###/###V, #PH, #W ### kVA	AC	ABOVE COUNTER
\mathbf{O}	DUPLEX RECEPTACLE (FLOOR MTD)	-	(CEILING MTD)		DISCONNECT STARTER			AFF	ABOVE FINISHED FLOOR
	DUPLEX RECEPTACLE	\Box	(WALL MTD, LINEAR)					AG	ABOVE COUNTER GFI DEVICE
\oplus	(CEILING MTD)	Q	SCONCE (WALL MTD, ROUND)	0	THERMOSTAT	$\bigcirc \bigcirc $		AHU	AIR HANDLING UNIT
Φ	DUPLEX (SWITCHED)	0	SCONCE	/'C'	PANEL ('C' INDICATES PANEL NAME)	$(G)^{125/3}$	STANDBY/EMERGENCY GENERATOR ###/###V, #PH, #W	AIC	FAULT CURRENT CAPACITY
\	4-PLEX RECEPTACLE (WALL MTD)	$\widehat{\mathbf{r}}$	(WALL MTD, HALF ROUND)	ע ש עד	TELEVISION OUTLET		###/###V, #PH, #W ### kW, ### kVA	AL	ALUMINUM
 (55)	4-PLEX RECEPTACLE	¢	SURFACE GLOBE	TV EV	ELECTRIC VEHICLE CHARGING STATION			C CLG	CONDUIT CEILING
\oplus	(FLOOR MTD)	⊕ ⊥	PENDANT (SMALL)		TIME CLOCK WITH BATTERY	- -	AUTOMATIC TRANSFER	CU	COPPER
\oplus	4-PLEX RECEPTACLE (CEILING MTD)	\oplus	PENDANT (LARGE)	FACP	FIRE ALARM CONTROL PANEL		SWITCH ###A#P	СКТ	CIRCUIT
Ŷ	SPECIAL PURPOSE RECEPTACLE	0 0	PENDANT (LINEAR)	FAA	FIRE ALARM ANNUNCIATOR (REMOTE)			СТ	CURRENT TRANSFORMER
\odot	SPECIAL PURPOSE RECEPTACLE			EA	FIRE ALARM HORN	35	DRY-TYPE	DYR	DRYER
\square	(FLOOR MTD)		CEILING FIXTURE (RECESSED)	EX	FIRE ALARM STROBE		TRANSFORMER	DW	DISHWASHER
Φ	JUNCTION BOX (WALL MTD)			ENX	FIRE ALARM STROBE/HORN			(E)	EXISTING
J			CEILING FIXTURE (SURFACE/SUSPENDED)	F	FIRE ALARM PULL STATION	M	UTILITY METER	E.C.	ELECTRICAL CONTRACTOR
	(FLOOR MTD)			FS	FIRE/SMOKE DAMPER			EF	EXHAUST FAN
Q	JUNCTION BOX (CEILING MTD)		STRIP FIXTURE (WALL MOUNTED)	DH	MAGNETIC DOOR HOLDER	M	UTILITY METER & CT's	EM	EMERGENGY
∇	DATA OUTLET		TRACK MOUNTED FIXTURE	۲	SMOKE DETECTOR	ىل ر		EWC	WATER COOLER
\bigtriangledown	DATA OUTLET (FLOOR MTD)			(2) CO	COMBINATION SMOKE/CO DETECTOR	M	UTILITY METER (INTEGRAL)	EXP	EXPLOSION PROOF
	TELEPHONE OUTLET		POLE MOUNTED FIXTURE (SINGLE ARM)					G	GROUND
▼	(WALL MTD)		POLE MOUNTED FIXTURE	۲	SINGLE PUSH BUTTON	(M)	UTILITY METER & CT's (INTEGRAL)	GD	GARBAGE DISPOSER GROUND FAULT INTERRUPTER
	TELEPHONE OUTLET (FLOOR MTD)				3 PUSH BUTTON	Ψ		GFI HD	EXHAUST HOOD
\mathbf{v}	TELEPHONE/DATA OUTLET		EMERGENCY EGRESS FIXTURE				METER STACK	HP	HORSEPOWER
	TELEPHONE/DUPLEX OUTLET	$\overset{\wedge}{\otimes}$	EXIT SIGN (SHADING INDICATES ILLUMINATED FACE(S))			125/2 HOUSE		MW	MICROWAVE
	(FLOOR MTD) TELEPHONE/DATA/DUPLEX OUTLET						FUSED SWITCH	MDP	MAIN DISTRIBUTION PANELBOARI
$\mathbf{\nabla}\mathbf{\nabla}$	(FLOOR MTD)	×	CEILING FAN	CIRCUITING/CONI	DUIT LINETYPES	• — • ~	(DIAGRAMMATIC)	МН	MANHOLE
\$	SWITCH	O	IN-GRADE UPLIGHT		HOMERUN CIRCUIT, PANEL AND CIRCUIT		CIRCUIT BREAKER	MTD	MOUNTED
\$ ³	3-WAY SWITCH			A1-1		###/3	(DIAGRAMMATIC)	MVOLT	MULTI-VOLTAGE
\$ ⁴	4-WAY SWITCH	×	BOLLARD				PULL OUT FUSED SWITCH	Ν	NEUTRAL
\$ ^D	DIMMER SWITCH	⊶ ₽	SPOT LIGHT STEP LIGHT			~~ ###/ 3	(DIAGRAMMATIC)	NL	NITE LIGHTING
\$'	THERMAL OVERLOAD SWITCH	Ľ [*]		a	EXPOSED CONDUIT	PANEL		PH	PHASE
\$ ^a	CONTROLLING OUTLET OR FIXTURE ON SWITCH LEG 'a'				CONDUIT RUN TURNED DOWN	'A'		REF	REFRIGERATOR
\$ ^K	KEYED SWITCH				CONDUIT CONTINUATION MARK		PANEL BOARD (DIAGRAMMATIC)	RNG (RL)	RANGE RELOCATE(D)
\$ ^{OV}	MANUAL OVERRIDE SWITCH			-	CONDUIT STUB-OUT			(RL) RTU	ROOF TOP UNIT
PC	PHOTOCELL			-	-			TS	THERMAL SWITCH
001	OCCUPANCY SENSOR (WALL MTD)			NEW/EXISTING/DE	MOLITION/FUTURE LINETYPES			ТТВ	TELEPHONE TERMINAL BOARD
OS1	WITH (1) INTEGERAL SWITCH	A			NEW WORK		MAIN OCPD GROUND FAULT PROTECTION	UG	UNDERGROUND
OS2	OCCUPANCY SENSOR (WALL MTD) WITH (2) INTEGERAL SWITCHES		DIAGONAL HATCH & 'E' SUFFIX INDICATE		EXISTING WORK	GFP		V	VOLT
OC1	OCCUPANCY SENSOR (CEILING MTD)	H1-12a	FIXTURE PROVIDED W/ EMERGENCY BATTERY BACKUP		DEMOLITION WORK		FEEDER TAG	VA	VOLT-AMPERE
OC2	OCCUPANCY SENSOR (CEILING MTD)	\ 			FUTURE WORK	$ imes_{\sf F0}$	FAULT CALCULATION	VFD	VARIABLE FREQUENCY DRIVE
	WITH CORRIDOR SENSING PATTERN DIGITAL LIGHTING CONTROL SOFT SWITCH	L	NDICATES CIRCUIT NUMBER; LOWERCASE LETTER NDICATES			/ ` FU		W	WALL
SSX	'x' REFERS TO CONTROL SCHEDULE ID#		SWITCH LEG DESIGNATION					WG	WEATHERPROOF GFI
								WP	WEATHERPROOF
							B	14/514	

CODES AND DESIGN CRITERIA									
CASTLE ROCK, CO	JURISDICTION								
2020 NEC	ELECTRICAL CODE								
0010 1500									

JURISDICTION	CASTLE ROCK, CO		NUMBER	
ELECTRICAL CODE	2020 NEC		E0.01	
ENERGY CODE	2018 IECC		E0.02	
LOCAL AMENDMENTS	TITLE 15 OF MUNICIPAL CODE		E1.01	
ELECTRIC UTILITY	CORE ELECTRIC		E1.02	
OCCUPIED LEVELS	1		E2.01	
		-	E2.02	
			E2 01	

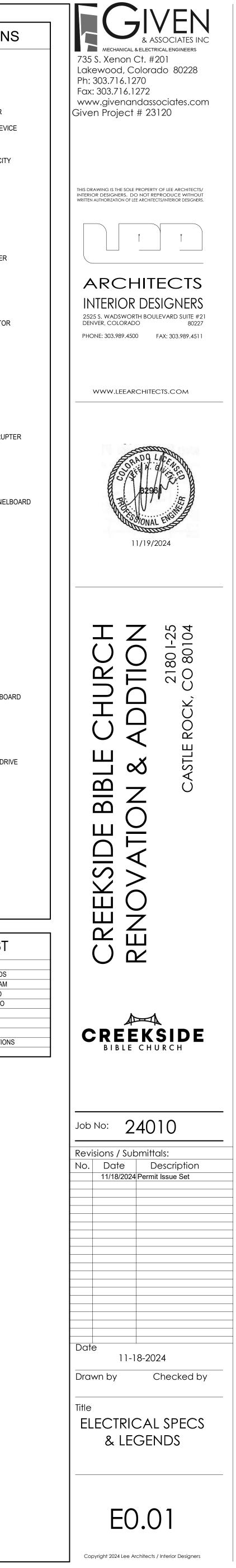
ELECTRICAL SHEET LIST									
NUMBER	TITLE								
E0.01	ELECTRICAL SPECS & LEGENDS								
E0.02	ELECTRICAL ONE-LINE DIAGRAM								
E1.01	FLOOR PLAN - POWER DEMO								
E1.02	FLOOR PLAN - LIGHTING DEMO								
E2.01	FLOOR PLAN - POWER								
E2.02	ROOF PLAN - POWER								
E3.01	FLOOR PLAN - LIGHTING								
E6.01	ELECTRICAL ENERGY CALCULATIONS								
SHEET TOTAL: 8	3								

WRM

WSH

WARMING DRAWER

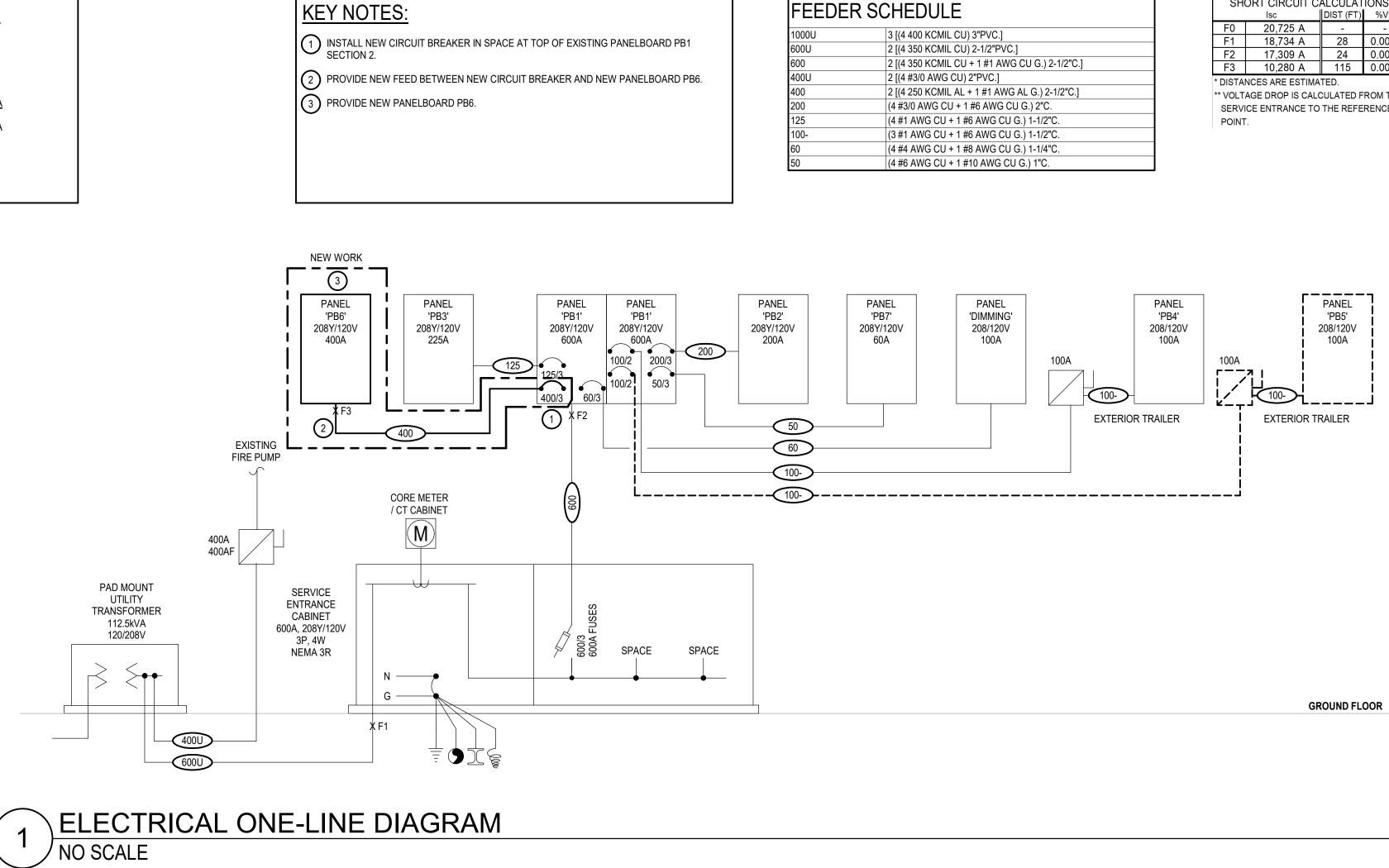
WASHER



EQUIPME	INT CONNECTION	SCHED	ULE												
GENERAL NOTES:															
A. PROVIDE DISCONNE	CTING MEANS FOR EACH PIECE OF EQUIPME	ENT AS INDICATEI	D IN THE 'DISC' (COLUMN.											
REMARKS:															
1.															
				ELECTRIC HEAT SINGLE MOTOR UNIT EQUIPMENT OVERCURRENT PROTECTION		ION									
PLAN MARK	DESCRIPTION	VOLT	PHASE	WATTS	WATTS	HP	WATTS	FLA	MCA	MOCP	СВ	DISC	FUSE	FEEDER	REMARKS
EF-1	EXHAUST FAN	120 V	1		7	-				15	20A1P	HPRS		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EF-2	EXHAUST FAN	120 V	1		-	1/4		.63	.78	15	20A1P	PLUG		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EWH-1	ELECTRIC WATER HEATER	208 V	3				4500	12.5	16	20	20A3P	20A3P	20A	(4#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
RTU-1	ROOF TOP UNIT	208 V	3						37	50	50A3P	60A3P	50A	(4#6 AWG CU + 1#8 AWG CU GND) 1-1/4"C.	
RTU-2	ROOF TOP UNIT	208 V	3						49	60	60A3P	60A3P		(4#4 AWG CU + 1#8 AWG CU GND) 1-1/4"C.	
RTU-3	ROOF TOP UNIT	208 V	3						49	60	60A3P	60A3P		(4#4 AWG CU + 1#8 AWG CU GND) 1-1/4"C.	
RTU-4	ROOF TOP UNIT	208 V	3						81	100	100A3P	100A3P		(4#1 AWG CU + 1#6 AWG CU GND) 1-1/2"C.	
CP-1	CIRCULATION PUMP	120 V	1				84			20	20A1P	HPRS		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EUH-1	ELECTRIC UNIT HEATER	120 V	1	1,500				8.3	10.4	15	20A1P	HPRS		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EUH-1	ELECTRIC UNIT HEATER	120 V	1	1,500				8.3	10.4	15	20A1P	HPRS		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EUH-1	ELECTRIC UNIT HEATER	120 V	1	1,500				8.3	10.4	15	20A1P	HPRS		(2#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EUH-2	ELECTRIC UNIT HEATER	208 V	3	4,800				13.3	16.6	20	20A3P	HPRS		(3#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	
EUH-2	ELECTRIC UNIT HEATER	208 V	3	4,800				13.3	16.6	20	20A3P	HPRS		(3#12 AWG CU + 1#12 AWG CU GND) 3/4"C.	

LUM	UMINAIRE SCHEDULE											
REMARKS:												
1.												
								L/	AMP			
TAG	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	VOLT	QTY	WATTS	SOURCE	TEMP	LUMENS	DIMMING	REMARKS
А	2'X4' TROFFER	RECESSED	LITHONIA	CPX 2X4 4000LM 35K M2	120 V		39	LED	3500K	4543	0-10V	-
С	HIGH BAY	CEILING, SUSPENDED	LITHONIA	JEBL 12L 40K 80CRI WH	120 V		95	LED	4000K	12000	0-10V	-
D	6" DOWNLIGHT	RECESSED	LITHONIA	LDN6 35/20 MVOLT GZ10 HSG	120 V		22	LED	3500K	2000	0-10V	-
E	EMERGENCY FIXTURE	SURFACE	LITHONIA	ELM4L	120 V		7	LED	-	-	-	-
F	VANITY	SURFACE	LITHONIA	FMVTSL 24IN MVOLT 30K 90CRI BN M4	120 V		10	LED	3000K	1300	-	-
G	6"X4' LINEAR	SURFACE	LITHONIA	FML4W 48 ALO6 SEF 840 MVOLT	120 V		50	LED	4000K	5000	0-10V	-
K	2' LINEAR	SURFACE	COOPER LIGHTING	A02-SI-A-1-LED-30K-D-120-S-RC3	120 V		21	LED	3000K	1990	Y	-
L	EM SCONCE	SURFACE	LITHONIA	WPX1 LED P1 30K MVOLT	120 V		11	LED	3000K	1550	-	-
Р	PENDANT	SUSPENDED, 13' AFF	LITHONIA	LDN6CYL 30/50 LO6AR LD MVOLT GZ10 PM	120 V		60	LED	3000K	4975	0-10V	-
Х	EXIT SIGN	SURFACE	LITHONIA	LQM S 3 G MVOLT	120 V		5	LED	-	-	-	-

EXISTING SERVICE LOAD CALCUL	ATION:
HIGHEST PEAK DEMAND OVER PAST 12 MONTHS:	64.20 KVA
HIGHEST PEAK DEMAND OVER PAST 12 MONTHS * 1.25:	71.33 KVA
TOTAL ADDED LOAD ON SERVICE:	111.86 KVA
TOTAL PROPOSED LOAD ON EXISTING SERVICE:	183.19 KVA
TOTAL PROPOSED AMPERAGE ON EXISTING 600A SERVICE:	508.86 A

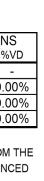


CIRCUIT DESCRIPTION BKR EATING FKR I 1 1500 4440 B C Crrt TYPE RATING CIRCUIT DESCRIPTION EWH-1 20 3 3 1 1500 4440 1500 4440 6 3 50 RTU-1 CP-1 20 1 7 64 580 1 100 440 6 3 50 RTU-1 LIGHTING 20 1 11 312 580 1 14 8 14 8 0 RTU-3 RTU-3 RTU-4 RTU-4 RTU-3 RTU-4 RTU	VOLTAGE: 120/208 WYE PHASE: 3 WIRES: 4	:					SUPPL	Losure Y From Dunting	I: PB1						MAINS	IS TYPE: MCB RATING: 400 RATING: 400A
EWH-1 20 3 3 3 5 RTU-1 CP-1 20 1 7 84 580 1 8 1 8 1 8 1 </th <th>CIRCUIT DESCRIPTION</th> <th></th> <th></th> <th></th> <th>скт</th> <th></th> <th>A</th> <th>E</th> <th>3</th> <th>(</th> <th>;</th> <th>скт</th> <th></th> <th></th> <th></th> <th>CIRCUIT DESCRIPTION</th>	CIRCUIT DESCRIPTION				скт		A	E	3	(;	скт				CIRCUIT DESCRIPTION
CP-1 20 1 7 84 5800 1209 5800 1 8 8 3 60 RTU-2 LIGHTING 20 1 1 1 1 120 5800 1 4 1 100 5800 1 4 1 LIGHTING 20 1 1 1 1 1419 5800 1 4 1 <	EWH-1	20	3			1500	4440	1500	4440					3	50	RTU-1
LIGHTING 20 1 9 1 <th1< th=""> 1 1 1 <</th1<>					5					1500	4440	6				
LIGHTING 20 1 11	CP-1	20	1		7	84	5880					8				
LIGHTING 20 1 13 312 580 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 16 3 60 RTU3 EUH-1 ELGT 20 1 17 1 19 1000 9720 22 3 100 RTU4 EUH-1 ELGT ROOM 20 1 21 1 1000 9720 22 3 100 RTU4 EUH-1 ELGT ROOM 20 1 25 500 1600 20 22 3 100 RTU4 ECEPTACLES 20 1 25 500 1600 26 3 20 EUH-2 ENTRANCE EAST RECEPTACLES 20 1 23 1080 1600 36 1 20 RECEPTACLES 20 1 33 20 EUH-2 ENTRANCE EAST RECEPTACLES 20 1 37 1080<	LIGHTING	20	1		9			1209	5880			10		3	60	RTU-2
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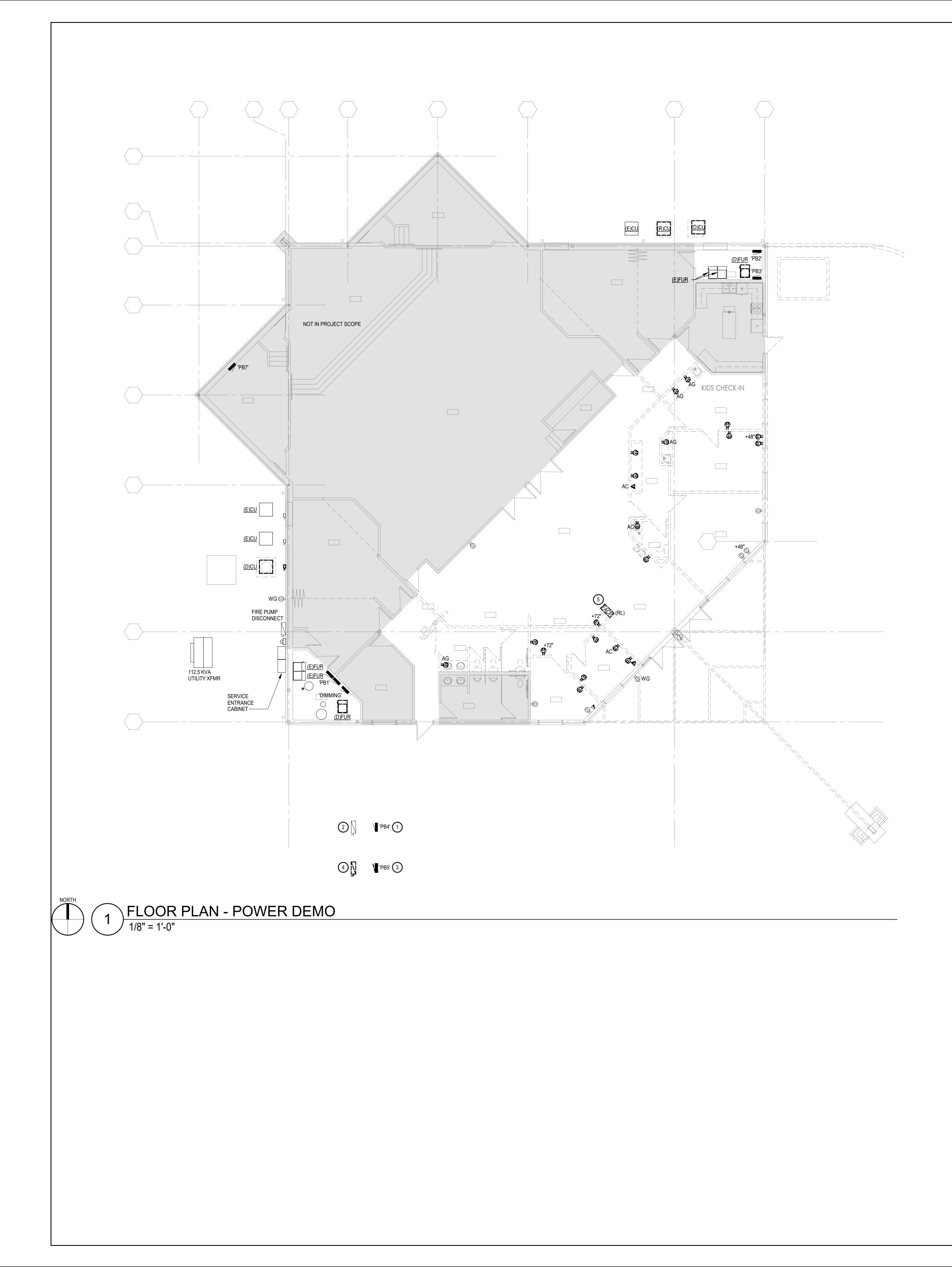
FEEDER SCHEDULE

SH	ORT CIRCUIT C/	ALCULAT	IONS						
	lsc	DIST (FT)	%V						
F0	20,725 A	-	-						
F1	18,734 A	28	0.00						
F2	17,309 A	24	0.00						
F3	10,280 A	115	0.00						
* DISTANCES ARE ESTIMATED.									
** VOLTAGE DROP IS CALCULATED FROM 1									
SERVICE ENTRANCE TO THE REFERENCI									
POINT.									





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- . EQUIPMENT SHOWN IN SOLID, LIGHT LINETYPE IS EXISTING TO REMAIN, U.O.N. E.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDAINATE THE INSTALLATION OF NEW EQUIPMENT WITH CURRENT FIELD CONDITIONS.
- EQUIPMENT SHOWN IN DASHED, BOLD LINETYPE IS EXISTING TO BE DEMOLISHED UNDER NEW WORK, U.O.N. E.C. TO VERIFY THE DEMOLITION OF ALL EQUPIMENT WITH OWNER PRIOR TO REMOVAL.
 EXISTING EQUIPMENT OR DEVICE TAGGED WITH '(RL)' SHALL BE REMOVED, SALVAGED, AND RELOCATED TO NEW LOCATION.

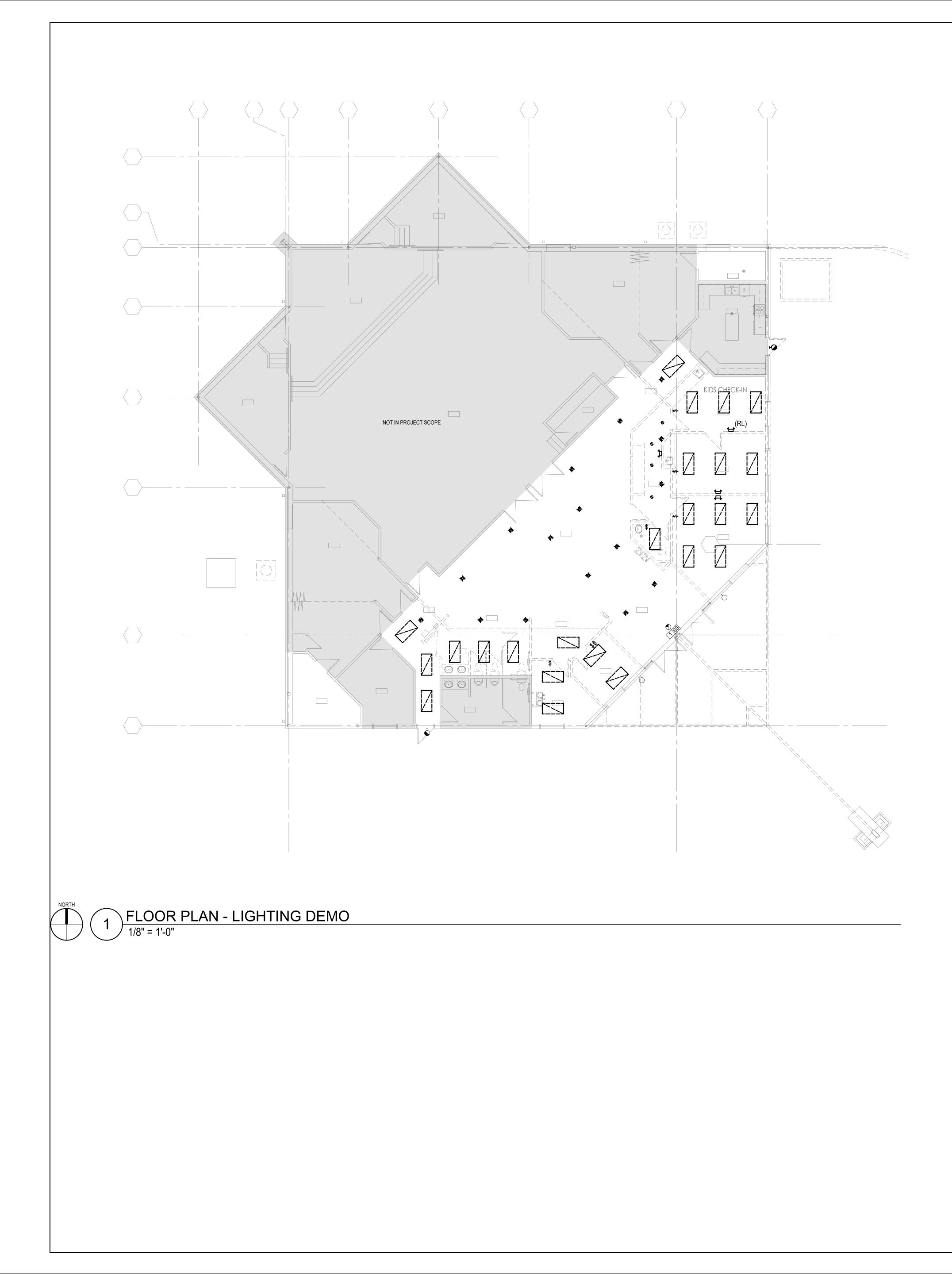
KEY NOTES:

1 EXISTING PANELBOARD TO REMAIN, LOCATED WITHIN TRAILER.

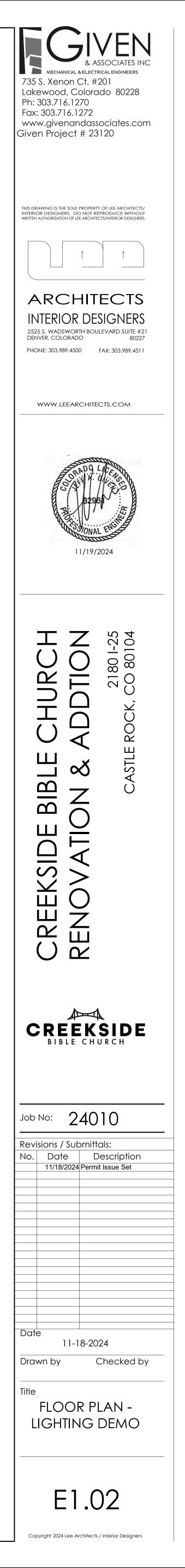
2 EXISTING DISCONNECT TO REMAIN, LOCATED ON EXTERIOR OF TRAILER.

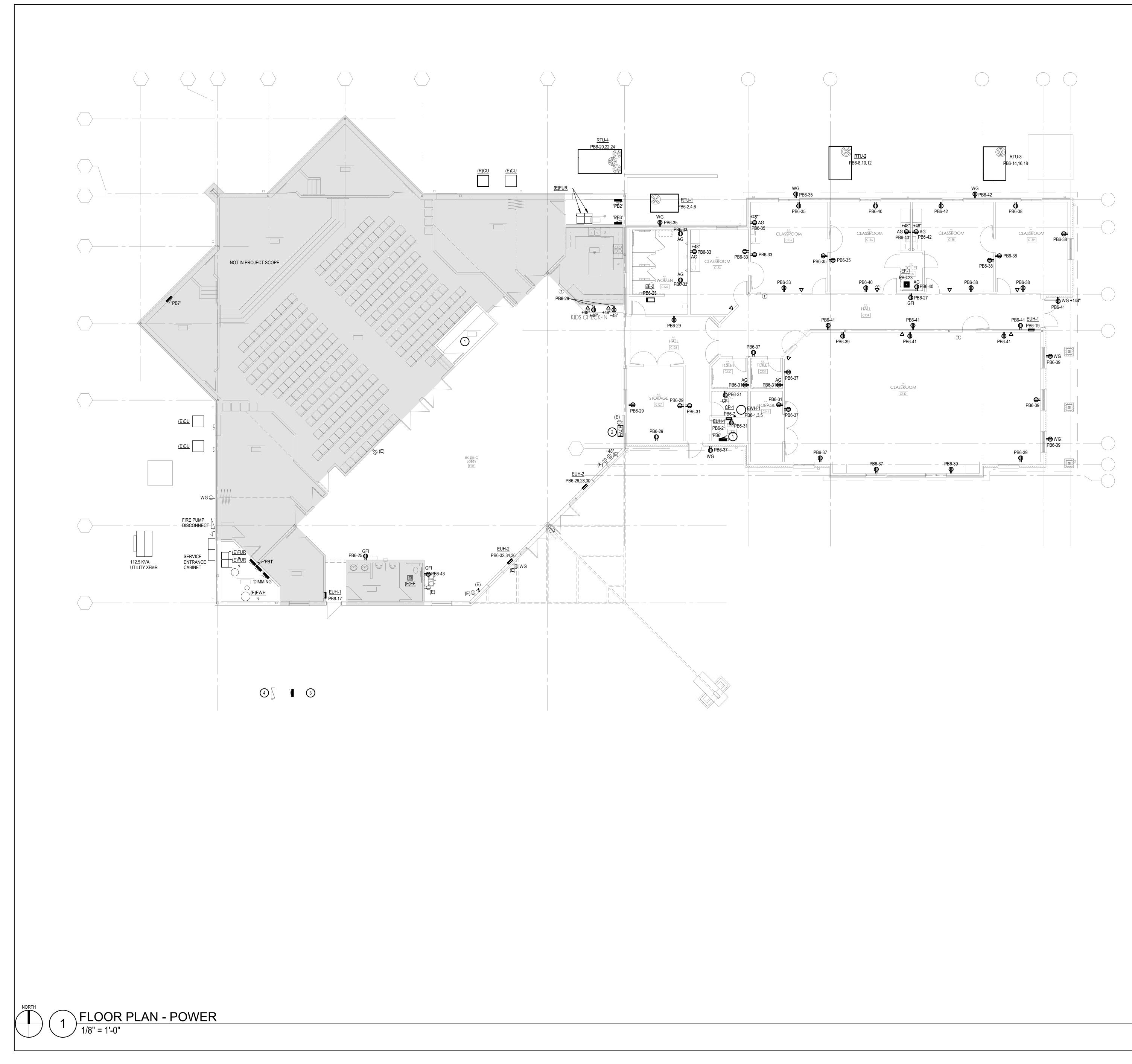
- 3 EXISTING PANELBOARD TO BE DEMOLISHED, LOCATED WITHIN TRAILER.
- 4 EXISTING DISCONNECT TO BE DEMOLISHED, LOCATED ON EXTERIOR OF TRAILER.
 5 EXISTING SIMPLEX 4010 FIRE ALARM PANEL TO BE REMOVED.





- 1. LIGHTING FIXTURES AND DEVICES SHOWN IN SOLID, LIGHT LINETYPE ARE EXISTING TO REMAIN, U.O.N.
- LIGHTING FIXTURES AND DEVICES SHOWN IN DASHED, BOLD LINETYPE ARE EXISTING TO BE DEMOLISHED UNDER NEW WORK, U.O.N. E.C. TO VERIFY THE DEMOLITION OF ALL FIXTURES WITH OWNER PRIOR TO APPROVAL.
 EXISTING FIXTURES TAGGED WITH '(PL)' SHALL BE REMOVED. SALVAGED, AND
- EXISTING FIXTURES TAGGED WITH '(RL)' SHALL BE REMOVED, SALVAGED, AND RELOCATED TO NEW LOCATION.



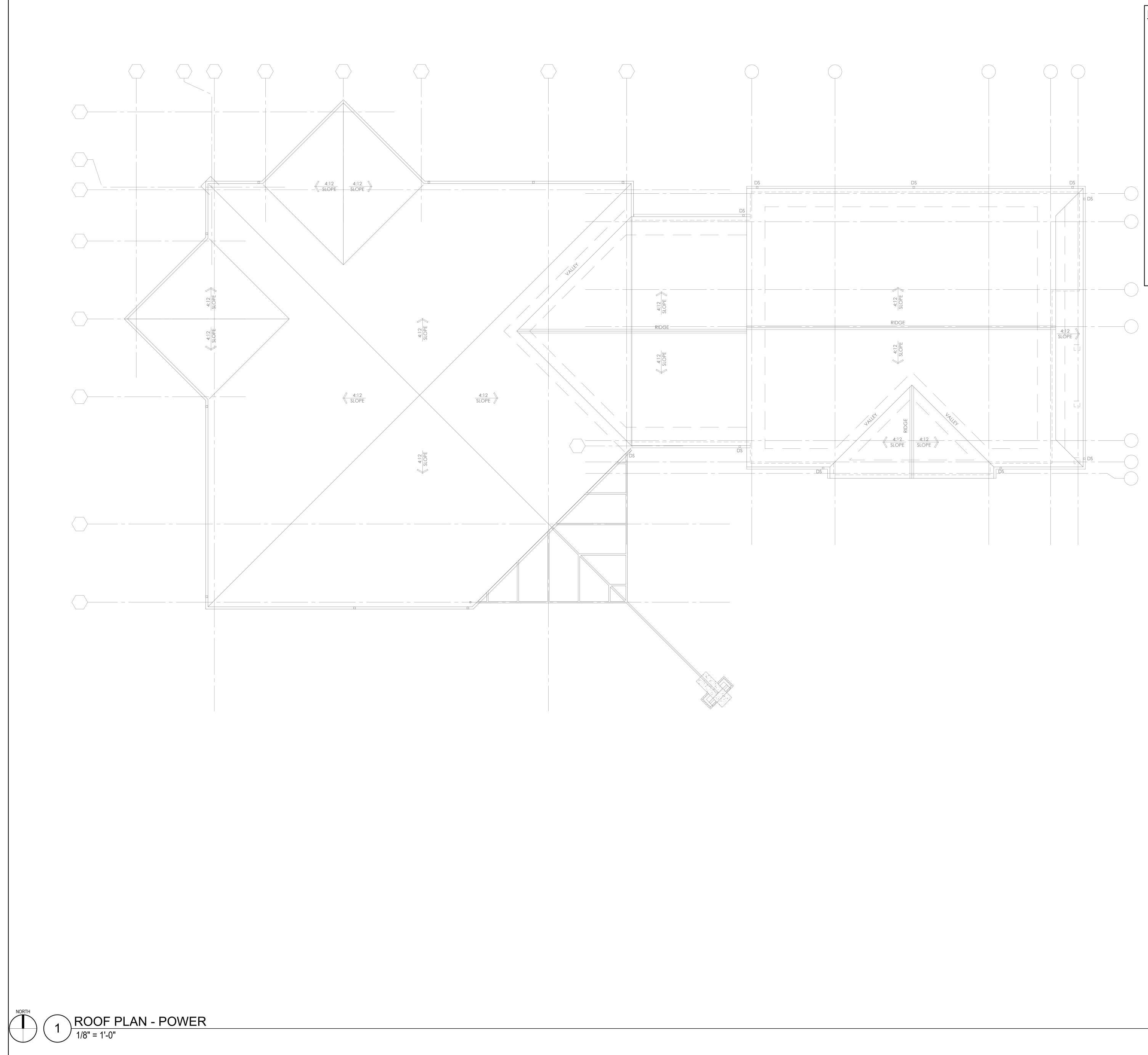


- I. EQUIPMENT SHOWN IN SOLID, LIGHT LINETYPE IS EXISTING TO REMAIN, U.O.N. E.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE THE
- INSTALLATION OF NEW EQUPIMENT WITH CURRENT FIELD CONDITIONS.2. EQUIPMENT SHOWN IN SOLID, BOLD LINETYPE IS TO BE INSTALLED UNDER NEW WORK, U.O.N.
- 3. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER U.O.N. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET. ALL WIRING SHALL BE IN APPROVED RACEWAY.
- ALL OUTLETS, FIXTURES AND EQUIPMENT SHALL BE CIRCUITED TO PANEL AS NOTED. NUMBERS INDICATE CIRCUITING.
- 5. VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT AND COORDINATE WITH MECHANICAL DUCTWORK AS REQUIRED PRIOR TO ROUGH-IN.
- 6. COORDINATE TELELPHONE, CATV OUTLETS LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT.
- COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL AND PROVIDE ALL FINAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 REFER TO EQUIPMENT SCHEDULE, ON SHEET E0.02, FOR FEEDER, DISCONNECT, AND CIRCUIT BREAKER SIZES FOR MECHANICAL AND PLUMBING EQUIPMENT. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT EQUIPMENT
- LOCATIONS.9. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF HVAC EQUIPMENT.
- 10. '(RL)' INDICATES EXISTING EQUIPMENT OR DEVICE TO BE RELOCATED.
- 11. ALL EXTERIOR MOUNTED RECEPTACLES, JUNCTION BOXES, AND CONDUIT SHALL BE WATERPROOF.
- 12. NO EQUIPMENT, DEVICES, FURNITURE, OR THE LIKE SHALL BE INSTALLED OR PLACED IN FRONT OF ELECTRICAL PANELS OR EQUIPMENT THAT WOULD VIOLATE CODE REQUIREMENTS FOR WORKING CLEARANCE.
- 13. AT LEAST ONE RECEPTACLE SHALL BE WITHIN 25' OF EACH PIECE OF SERVICEABLE EQUIPMENT FOR MAINTENANCE PURPOSES. FIELD VERIFY EXACT EQUIPMENT LOCATIONS AND PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED FOR INSTALLED CONDITIONS. COORDINATE CIRCUITING WITH EOR AS REQUIRED.

KEY NOTES:

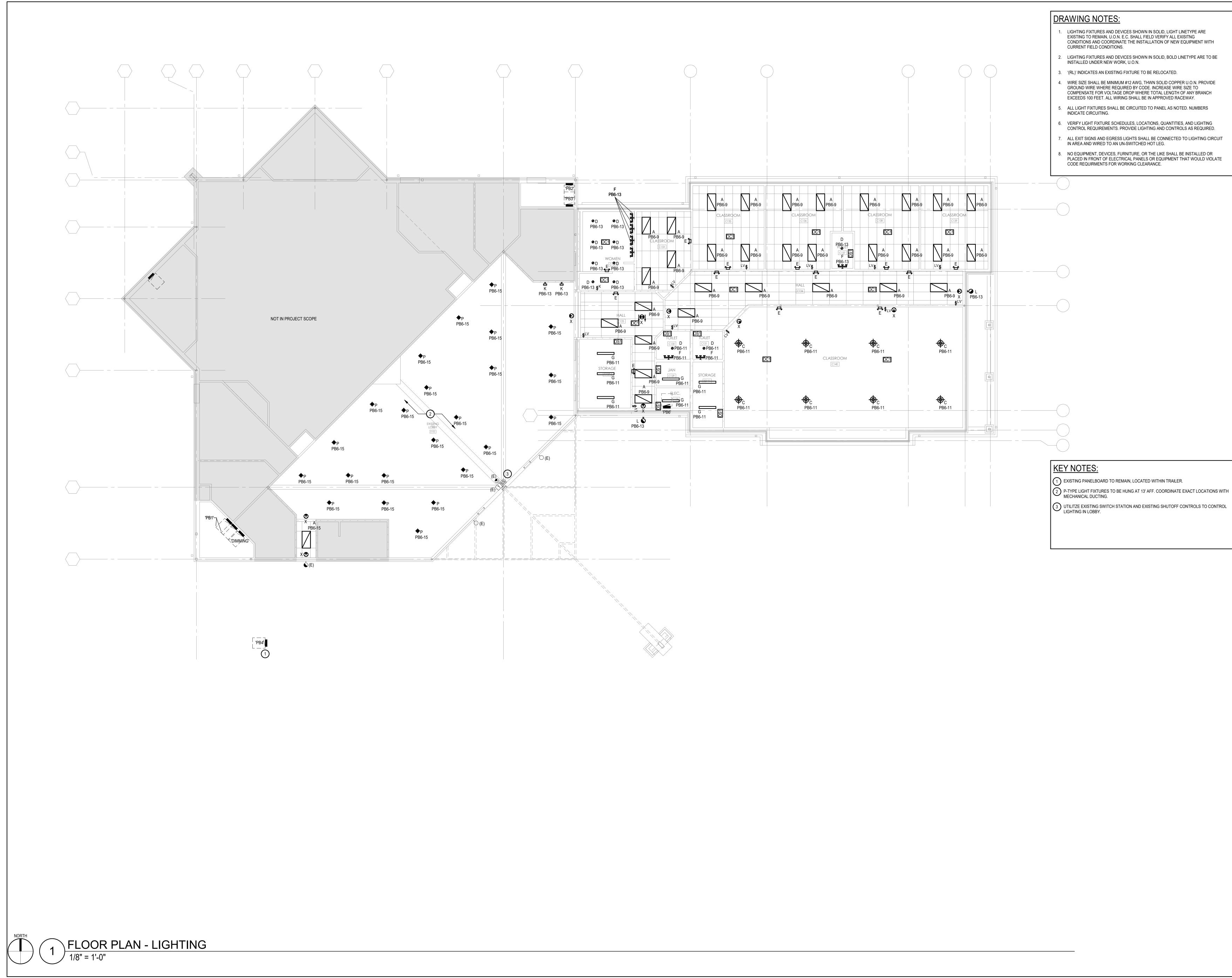
- 1 PROVIDE NEW FIBER LINE, BEGINNING AT EXISTING AVL BOOTH 114 AND TERMINATING AT NEW PANELBOARD PB6 IN NEW ELECTRICAL ROOM C128.
- 2 NEW LOCATION FOR NEW FIRE ALARM PANEL.
- 3 EXISTING PANELBOARD TO REMAIN, LOCATED WITHIN TRAILER.
- 4 EXISTING DISCONNECT TO REMAIN, LOCATED ON EXTERIOR OF TRAILER.

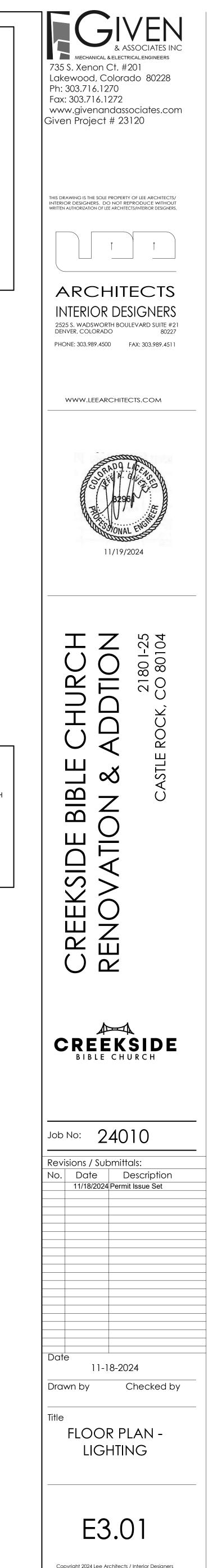




- 1. EQUIPMENT SHOWN IN SOLID, LIGHT LINETYPE IS EXISTING TO REMAIN, U.O.N. E.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE THE INSTALLATION OF NEW EQUPIMENT WITH CURRENT FIELD CONDITIONS.
- 2. EQUIPMENT SHOWN IN SOLID, BOLD LINETYPE IS TO BE INSTALLED UNDER NEW WORK, U.O.N.
- 3. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER U.O.N. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET. ALL WIRING SHALL BE IN APPROVED RACEWAY.
- ALL OUTLETS, FIXTURES AND EQUIPMENT SHALL BE CIRCUITED TO PANEL AS NOTED. NUMBERS INDICATE CIRCUITING.
- 5. VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT AND COORDINATE WITH MECHANICAL DUCTWORK AS REQUIRED PRIOR TO ROUGH-IN.
- 6. COORDINATE TELELPHONE, CATV OUTLETS LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT.
- 7. COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL AND PROVIDE ALL FINAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- B. REFER TO EQUIPMENT SCHEDULE, ON SHEET E0.02, FOR FEEDER, DISCONNECT, AND CIRCUIT BREAKER SIZES FOR MECHANICAL AND PLUMBING EQUIPMENT. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF HVAC EQUIPMENT.
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Project Information Energy Code: Project Title: Project Type:

Construction Site:

Allowed Interior Lighting Power

1-Religious Building **Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

<u>1-Religious Building</u> LED: A: Other: LED: C: Other: LED: D: Other: LED: F: Other: LED: G: Other: LED: K: Other: LED: P: Other:

Interior Lighting PASSES: Design 48% better than code Interior Lighting Compliance Statement

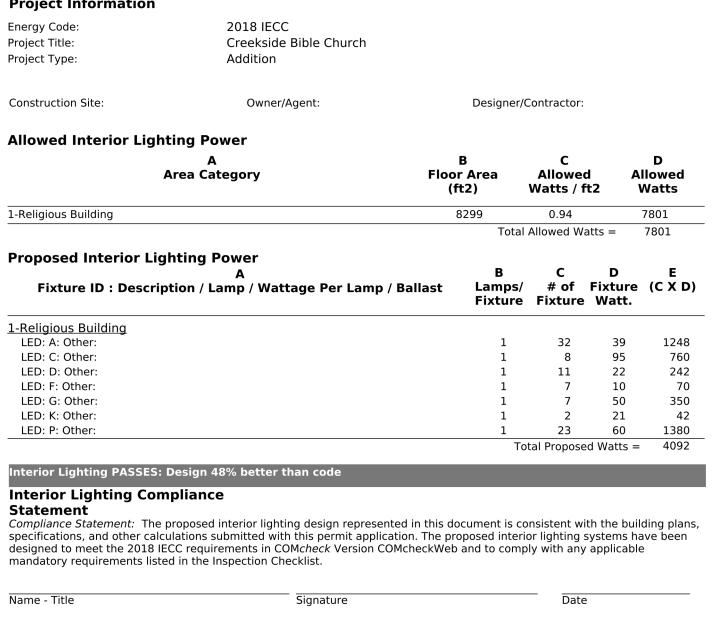
Name - Title

Project Title: Creekside Bible Church Data filename:

Section	
# & Req.ID	Rough-In Electrical Inspection
C405.2.2. 2 [EL22] ¹	Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load a reasonably uniform illumination pattern $>= 50$ percent.
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offi open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and oth spaces <= 300 sqft that are enclo by floor-to-ceiling height partitions Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1. for open plan office spaces.
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function warehouses: In warehouses, the lighting in aisleways and open are controlled with occupant sensors to automatically reduce lighting power by 50% or more when the areas and unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.
C405.2.1. 3 [EL20] ¹	Occupant sensor control function i open plan office areas: Occupant sensor controls in open office space >= 300 sq.ft. have controls 1) configured so that general lighting be controlled separately in control zones with floor areas <= 600 sq.ft within the space, 2) automatically off general lighting in all control zor within 20 minutes after all occupan have left the space, 3) are configu so that general lighting power in e control zone is reduced by >= 809 the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) a configured such that any daylight responsive control will activate spi general lighting only when occupants for the same area is detected.
C405.2.2, C405.2.2. 1, C405.2.2. 2 [EL21] ²	Each area not served by occupanc sensors (per C405.2.1) have time- switch controls and functions deta in sections C405.2.2.1 and C405.2

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Creekside Bible Church Data filename:

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate



Report date: 11/18/24 Page 1 of 6

Report date: 11/18/24

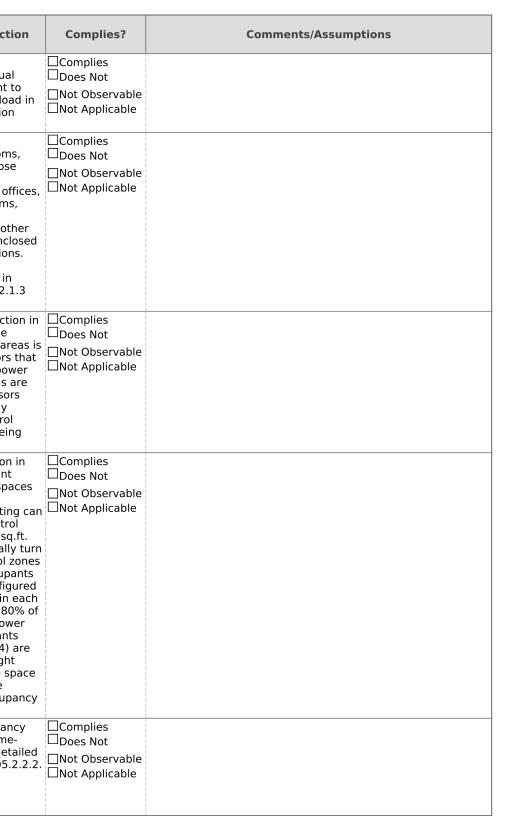
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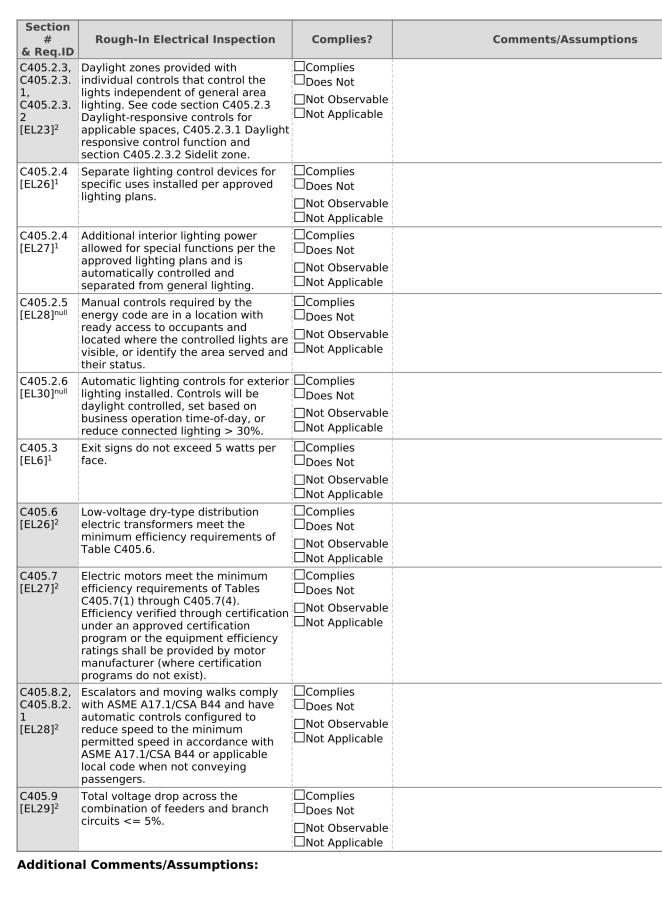


Project Information						
Energy Code: Project Title: Project Type:	2018 IECC Creekside Bible Chur Addition	ch				
Exterior Lighting Zone	2 (Neighborhood bus	iness district (LZ	22))			
Construction Site:	Owner/Agent:		Designer,	Contractor:		
Allowed Exterior Light	ing Power					
		В	с	D		E
Area/Surface (Category	Quantity	Allowed Watts /	Tradable Wattage		_
Dining area		100 ft2	0.65	Yes		65
			Total Tradabl	e Watts (a) =		65
				wed Watts =		65
		Total Allowed	l Supplementa	al Watts (b) =		400
Proposed Exterior Lig	hting Power A :ion / Lamp / Wattage Per L	amp / Ballast	B Lamps/ Fixture			E (C X D)
Dining area (100 ft2): Trada	able Wattage					
LED: L: Other:			1	3	11	33
			Total Trada	able Proposed	Watts =	33
Exterior Lighting PASSES: [Design 93% better than code					
Exterior Lighting Com Statement	pliance					
specifications, and other calcu	roposed exterior lighting design re lations submitted with this permit CC requirements in COM <i>check</i> Ver I in the Inspection Checklist.	application. The p	proposed exte	rior lighting s	ystems h	ave been
Name - Title	Signature			Date		

Project Title: Creekside Bible Church Data filename:

Report date: 11/18/24 Page 2 of 6





1High Impact (Tier 1)2Medium Impact (Tier 2)3Low Impact (Tier 3) Project Title: Creekside Bible Church Report date: 11/18/24 Data filename:



COMcheck Software Version COMcheckWeb **Inspection Checklist**

Energy Code: 2018 IECC Requirements: 0.0% were addressed directly in the COM*check* software

Additional Comments/Assumptions:

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
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Project Title: Creekside Bible Church Report date: 11/18/24 Data filename: Page 3 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	systems and equipment to the	□Complies □Does Not □Not Observable □Not Applicable	
C405.4.1 [FI18] ¹	lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts	□Complies □Does Not □Not Observable □Not Applicable	<i>See the Interior Lighting fixture schedule for values.</i>
C405.5.1 [FI19] ¹	with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [FI57] ¹	documents will be provided to the owner. Documents will cover manufacturers' information	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.5. 1 [FI16] ³	electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	

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Additional Comments/Assumptions:

