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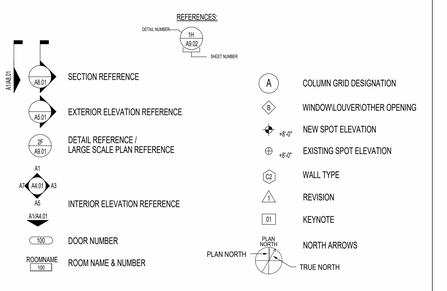
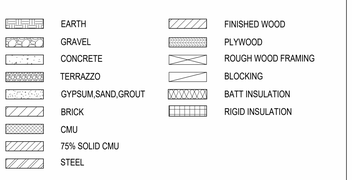
ABBREVIATIONS

&	and	C.H.	ceiling height	E.C.	electric contractor	H.B.	hose bibb	MAX.	maximum	Q.T.	quarry tile	SUSP.	suspended
∠	angle	C.I.	cast iron	E.J.	expansion joint	H.C.	hollow core	MBR.	member			SW.	switch
@	at	C.J.	control joint or construction joint	E.W.C.	electric water cooler	H.M.	hollow metal	MECH.	mechanic (al)	R.	riser, radius	SYM.	symmetry (ical)
℄	centerline	C.M.T.	ceramic mosaic tile	EA.	each	H.P.	horsepower	MED.	medium	R.A.	return air		
[	channel	C.M.U.	concrete masonry unit	ELAS.	elastomeric	HDW.	hardware	MEMB.	membrane	R.C.P.	reinforced concrete pipe	T&B.	top and bottom
∅	diameter or round	C.T.	ceramic tile	ELEC.	electric (al)	HDWD.	hardwood	MET.	metal	R.D.	roof drain	T&G.	tongue and groove
⊥	perpendicular	C. to C.	center to center	ELEC. CAB.	electric cabinet	HORIZ.	horizontal	MEZZ.	mezzanine	R.H.	right hand	T.	tread
▱	plate	CAB.	cabinet	ELEV.	elevator, elevation	HT.	height	MFGR.	manufacture (er)	R.O.	rough opening	T.C.	top of curb
#	pound or number	CARP.	carpet	EMER.	emergency	HVAC.	heating/ventilating air conditioning	MIN.	minimum	R.O.W.	right of way	T.P.	top of pavement
		CEM.	cement	ENCL.	enclose (ure)			MISC.	miscellaneous	REINF.	reinforcing bar	T.P.D.	toilet paper dispenser
		CER.	ceramic	ENTR.	entrance	HWY.	highway	MOD.	modified	REC.	recessed	T.W.	top of wall
		CLG.	ceiling	EQ.	equal			MTD.	mounted	RECT.	rectangular	TEL.	telephone
		CLO.	closet	EQUIP.	equipment	I.P.S.	iron pipe size	MUL.	mullion	REF.	reference	TEMP.	tempered or temperature
		CLR.	clear	ESTB.	establish	ID.	inside diameter			REFRIG.	refrigerator	TERZ.	terrazo
		CNTR.	counter	EXP.	expansion	IN.	inches	N.	north	REG.	register	THK.	thick (ness)
		COL.	column	EXSTG.	existing	INCL.	include (ed) (sion)	N.C.	not in contract	REINF	reinforced	THRES	threshold
		COMP.	composition	EXT.	exterior	INSUL.	insulation (ed)	N.T.S.	not to scale	REQ.	r,required	TLT.	toilet
		CONC.	concrete			INTR.	interior	NO. or #	number	RESIL.	resilient	TV.	television
		CONF.	conference	F.B.O.	furnished by others	INV.	invert	NOM.	nominal	RET.	return	TYP.	typical
		CONN.	connection	F.D.	floor drain					REV.	revision(s), revised		
		CONSTR.	construction	F.E.	fire extinguisher	INV. EL.	invert elevation	O. to O.	out to out	RFG.	roofing	U.O.N.	unless otherwise noted
		CONT.	continuous	F.E.C.	fire extinguisher cab.			O.C.	on center (s)			UNFIN.	unfinished
		CONTR.	contractor	F.H.C.	fire hose cabinet	JAN.	janitor	O.D.	outside diameter	RM.	room	UTIL.	utility
		CORR.	corridor	F.O.C.	face of concrete	JT.	joint	OFF.	office				
		CPT.	carpet	F.O.F.	face of finish			OPP.	opposite hand	S-P.	single-ply		
		CTR.	center	F.O.S.	face of studs	K.D.	kiln dried or knock down	O.H.	opposite hand	S.	south	V.B.	vinyl base
		CTSK.	countersink (sunk)	F.S.	full size	KIT.	kitchen	OPNG.	opening	S.C.	solid core	V.C.T.	vinyl composition tile
				F.T.F.	face to face	KO.	knockout	ORP.	opposite	S.C.J.	structural control joint	V.I.F.	verify in field
		D.	diameter	FDN.	foundation	L.	left, length	OUT.	outlet	S.D.	soap dispenser or storm drain	V.F.	vinyl fabric
		DEPT.	department	FIN.	finish (ed)	L.H.	left hand	OZ.	ounce			V.T.	vinyl tile
		DF.	drinking fountain	FL.	floor (ing)	L.L.	live load					V. W.F.	vinyl wall fabric
		DH.	double hung	FLASHG.	flashing	L.P.	low point	P.	plumbing contractor	S.N.D.	sanitary napkin dispenser	VENT.	ventilating
		DL.	dead load	FLOR.	fluorescent	L.R.	living room	P.LAM.	plastic laminate	S.N.R.	sanitary napkin receptacle	VERT.	vertical
		DN.	down	FRPF.	fireproof (ing)	L.W.	lightweight	P.S.F.	pounds per square foot	S.S.	stainless steel	VEST.	vestibule
		DBL.	double			LAB.	laboratory	P.S.I.	pounds per square inch	S.T.C.	sound transmission classification	VOL.	volume
B.U.R.	built-up roofing	DEM.	demolish, demolition	F.P.W.H.	freeze proof wall hydrant	LAM.	laminate (d)	P.T.D.	paper towel dispenser	S4S.	surfaced 4 sides		
BD.	board	DEPT.	department	FT.	foot or feet	LAV.	lavatory	P.T.R.	paper towel receptacle	SAN.	sanitary	W.	west, women
BEV.	beveled	DIAG.	diagonal, diagram	FTG.	footing	LT.	light	PAT.	pressure treat (ed)	SCHED.	schedule	W.C.	water closet
BITUM.	bituminous	DIFF.	diffuser	FURN.	furnish	LTG.	lighting	PLAS.	plaster	SECT.	section	W.F.	wide flange
BLDG.	building	DIM.	dimension	FURR.	furring	LVR.	louver	PLYWD.	plywood	SFTWD.	softwood	WI.	wrought iron
BLK.	block	DMT.	demountable	FUT.	future			PNT.	paint	SHT.	sheet	W.W.F.	welded wire fabric
BLKG	blocking	DN.	down	F.V.	field verify	M.C.	medicine cabinet or mechanical contractor	PNL.	panel	SIM.	similar	W/	with
BM.	beam or bench mark	DO.	door opening					PNT(G)	paint (ed)	SPEC.	specification	W/O	without
BR.	bedroom	DR.	door	G.B.	grab bar			PR.	pair	SQ.	square	WD.	wood
BRCG.	bracing	DS.	downspout	G.C.	general contractor	M.H.	manhole	PT.	point	SQ. FT.	square foot	WDW.	window
BRG.	bearing	DTL.	detail	GA.	gage, gauge	M.O.	masonry opening	PTDR.	combination paper towel dispenser & receptacle	STD.	standard	WP.	waterproofing
BSMT.	basement	DWG.	drawing	GALV.	galvanized	MACH.	machine			STL.	steel	WSCT.	wainscot
BTW.	between	DWR.	drawer	GL.	glass, glazing	MAINT.	maintenance	PTN.	partition	STOR.	storage	WT.	weight
C.B.	catch basin	E.	east	GR.	grade	MAS.	masonry	PVC.	polyvinyl chloride	STRUC.	structure (al)		
				GYP.	gypsum	MATL.	material (s)	PVMT.	pavement	SURF.	surface	YD.	yard

SYMBOLS



MATERIAL DESIGNATIONS



CJMW ARCHITECTURE

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DATE: 08-01-2023 COMMISON NO. 22-0410

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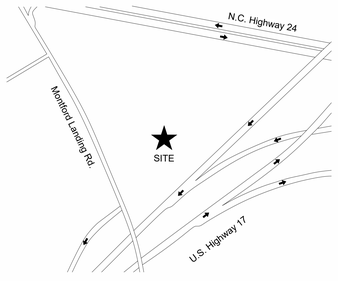
HICAPS

RAA

SAMET

LOCATION MAP



Museum of the MARINE

Community • Corps • Carolinas

111 Montford Point Dr,
Jacksonville, NC 28540

* EXCLUDED FROM 99% CD SET

ARCHITECT

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INTERIOR DESIGN

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99% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

DATE: 08-01-2023
REVISION:

DOCUMENT PHASE: 99% CONSTRUCTION DOCUMENTS

COMMISSION NO.: 22-0410
PROJECT NAME: MUSEUM OF THE MARINE
SHEET: COVER SHEET

APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **MUSEUM OF THE MARINE**
Address: **Montford Point Road, Jacksonville, NC** Zip Code **28540**
Owner/Authorized Agent: **Kevin Stuart** Phone # (**###**) **###** - **####** **x###** E-Mail **kstewart@museumofthemarine.org**
Owned By: Private
Code Enforcement Jurisdiction: Marine Corps Base Camp Lejeune

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	**CJMW Architecture**	**John Drinkard**	**5117**	**336.724.1503**	**john.drinkard@cjmw.com**
Civil	**EDA**				
Electrical	**Altieri Sebor Wieber**				
Fire Alarm	**Altieri Sebor Wieber**				
Plumbing	**Altieri Sebor Wieber**				
Mechanical	**Altieri Sebor Wieber**				
Sprinkler/Standpipe					
Structural	**Adams Engineering**				
Retaining Walls >5' High					
Landscape Design	**Surface 678**				
Acoustical Engineering	**Jaffee Holden**				
Food Service	**FOODESIGN**				
Exhibit Design	**RAA**				

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

APPLICABLE CODES:

- **Unified Facilities Criteria (UFC) 1-200-01 DOD Building Code, 01 September 2022 with Change 1, 24 February 2023. The following Model Codes adopted by reference:**
  - **2021 International Building Code:** New Building
  - **NFPA 101 - 2021 Life Safety Code**
  - **Refer to "UFC Compliance Intent" Section for additional information**

BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: Yes NFPA 13
Standpipes: No
Primary Fire District: No **LOCATED IN CAMP LEJEUNE FIRE DISTRICT: ISO RATING 1**
Flood Hazard Area: No **LOCATED IN ZONE X PER NC FRIS**
Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
2nd Floor	N/A	2,257 GSF	2,257 GSF
1st Floor	N/A	25,961 GSF	25,961 GSF
TOTAL	**N/A**	**28,218 GSF**	**28,218 GSF**

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-3
Accessory Occupancy Classification(s): **Business (B), Mercantile (M), Storage (S-1)**
Incidental Uses (NFPA 101, 8.7): **Boiler Room, Electrical Room, Mechanical Room to Assembly: 1 HR (NFPA 101, 12.3.2.1.1(2)) Collections Storage to Assembly: 1 HR (NFPA 101, 12.7.5.2)**
Special Uses (IBC Chapter 4 – List Code Sections): N/A
Special Provisions: (Chapter 5 – List Code Sections): N/A
Mixed Occupancy: Yes Separation: NONE Exception: NONE
Non-Separated Use (508.3)

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[1] AREA	(C) AREA FOR FRONTAGE INCREASE[1,2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1st Flr.	Museum (A-3 Controls)	25,960 GSF	28,500 sf	n/a	28,500 sf
2nd Flr.	Mechanical Room	2,252 GSF	28,500 sf	n/a	28,500 sf

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	75 feet	41 feet	
Building Height in Stories (Table 504.4)	3 stories	2 stories	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS: IBC Table 601, Unless Otherwise Noted

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____ = REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30 FEET	0 HR					
Bearing Walls Exterior	>30 FEET	0 HR					
Bearing Walls Interior	N/A	0 HR					
Nonbearing Walls and Partitions Exterior walls	>30 FEET	0 HR					
Interior walls and partitions	N/A	0 HR					
+ Floor Construction		1 HR	1 HR	SEE STRUCT	FLOOR SLAB BY THICKNESS		
+ Including supporting beams and joists		1 HR	1 HR	G0.03	UL N823		
- Floor Ceiling Assembly		0 HR	1HR	G0.03	UL H505		
+ Columns Supporting Floors		0 HR	1HR	G0.03	UL X829		
Roof Construction, including supporting beams and joists		0 HR					
Roof Ceiling Assembly		0 HR					
Columns Supporting Roof		0 HR					
Shaft Enclosures - Exit (NFPA 101, 7.1.3.2.1.1)		1 HR	1 HR	G0.03	U419		
Shaft Enclosures – Other		N/A	1 HR	G0.03	U415		
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		Not required					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation: (NFPA 101, 12.3.2.1.1(2)) (NFPA 101, 12.7.5.2)		1 HR	1 HR	G0.03	U419 (STUD) IBC TABLE 721.1(2), ITEM #3-1.4 (BLOCK)		

* Indicate section number permitting reduction
** Followed table 722.2.2.1 for minimum equivalent thickness of concrete floors to meet 1 hour rating for sleeping unit separation. Refer to structural drawings.
+ See Life Safety Plans for extent of horizontal assemblies in Collections Storage and Back-of-house Areas.

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (IBC TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30 feet	Unprotected, Sprinklered	No Limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: Yes
Panic Hardware: Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **G0.03**

- ☒ Fire and/or smoke rated wall locations
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines
- ☒ Occupancy Use for each area as it relates to occupant load calculation
- ☒ Occupant loads for each area (NFPA 101 Table 7.3.1.2 & UFC 3-600-01 Table 10-1)
- ☒ Exit access travel distances
- ☒ Common path of travel distances
- ☒ Dead end lengths
- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width
- ☒ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☒ Location of doors with panic hardware
- ☐ Location of doors with delayed egress locks and the amount of delay
- ☐ Location of doors with electromagnetic egress locks
- ☒ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows
- ☐ The square footage of each fire area
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2
- ☒ Note any code exceptions or table notes that may have been utilized regarding the items above

EXIT REQUIREMENTS
NUMBER AND ARRANGEMENT OF EXITS
(PER NFPA 101)

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		EXIT ACCESS TRAVEL DISTANCE (EATD)		COMMON PATH OF EGRESS TRAVEL (CPET)		DISTANCE BETWEEN EXITS (7.5.1.3.3)	
	REQ'D	PROP.	ALLOWED	PROP.	ALLOWED	PROP.	REQ'D	PROP.
1ST FLOOR – A (Ch. 12)	4*	5	250'	SEE PLAN	20'	SEE PLAN	X / 3 = y	SEE PLAN
1ST FLOOR – A (CH. 12), <50 Occ.	1	1	250'	SEE PLAN	75'	SEE PLAN	N/A	N/A
1ST FLOOR – B (Ch. 38)	2**	2	300'	SEE PLAN	100'	SEE PLAN	X / 3 = y	SEE PLAN
1ST FLOOR – M, Class C (Ch. 36)	2	2	250'	SEE PLAN	100'	SEE PLAN	X / 3 = y	SEE PLAN
1ST FLOOR – S, Ordinary (Ch. 42)	1***	1	400'	SEE PLAN	100'	SEE PLAN	N/A	N/A
2ND FLOOR – S, Low (Ch. 42)	1+	1	100'	SEE PLAN	100'	SEE PLAN	N/A	N/A

*: Main entrance shall be sized to accommodate not less than 1/2 the ground floor occupant load (NFPA 101 12.2.3.6.2(1)). All doors from the Great Hall can be counted toward satisfying this requirement (NFPA 101 12.2.3.6.5)

**: Spaces with an occupant load less than 100 and a total travel distance from remote point to the exterior of less than 100' allowed to have a single exit per NFPA 101, 38.2.4.3.

***: 1 means of egress allowed in all Low hazard areas; and in Ordinary Hazard areas where the listed CPET is not exceeded – See NFPA 101, 42.2.4.1. Definitions of Low Hazard and Ordinary Hazard in compliance with NFPA 101, 6.2.2.

+: Single exit allowed from 2nd Floor per NFPA 101, 7.13.2

- Door Egress Capacity (NFPA 101, 7.2.1.2.2.1): Face of leaf to stop, with door open to 90 degrees. Hardware projection not more than 3.5", not more than 38" above floor, otherwise counted as an obstruction.
- Door Leaf Minimum Width (NFPA 101, 7.2.1.2.3.2): 32" clear, face of leaf to stop, with door open to 90 degrees
- Stair Minimum Width (NFPA 101, 7.2.2.2.1.2)
  - 36" minimum, less than 50 Occ. Served
  - 44" minimum, 50 - 2000 Occ. Served
- Egress Path Minimum Width (NFPA 101, 7.3.4.1(2)): Not less than calculation based on per-occupant factor or 36", whichever is greater. See Life Safety Plans for additional information.

ACCESSIBLE PARKING
(IBC SECTION 1106)

(REFER TO CIVIL PACKAGE FOR ADDITIONAL INFORMATION)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	8' WIDE STD WITH 5' ACCESS AISLE	11' WIDE VAN WITH 5' ACCESS AISLE	8' WIDE VAN WITH 8' ACCESS AISLE	
MAIN PARKING	55	78	6	0	3	9
SERVICE AREA	0	0	0	0	0	0
TOTAL	55	78	6	0	3	9

PLUMBING FIXTURE REQUIREMENTS
(IBC TABLE 2902.1)

USE	OCC LOAD	WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX OR FAMILY	URINALS[1]	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX OR FAMILY	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE	OTHER**
GROUND FLOOR A-2 REQ'D	910	6.07	6.07			2.28	2.28			1.82		1 SERVICE SINK
A-3 REQ'D	307	2.25	2.36			0.77	0.77			0.61		1 SERVICE SINK
B REQ'D	33	0.09	0.04			0.41	0.41			0.33		1 SERVICE SINK
M REQ'D	19	0.02	0.02			0.04	0.03			0.02		1 SERVICE SINK
S REQ'D	22	0.11	0.13			0.13	0.13			0.02		1 SERVICE SINK
TOTAL REQ'D	**1,291**	**9**	**10**	**1*** **	**1**	**4**	**4**	**1**	**1**	**3**	**1**	**5 SERVICE SINK**
TOTAL PROVIDED	**1**	**6**	**13**	**3**	**3**	**6**	**6**	**1**	**2**	**3**	**1**	**5 SERVICE SINK**

* URINALS ARE SUBSTITUTED FOR NOT MORE THAN 67% OF THE REQUIRED NUMBER OF WATER CLOSETS IN EACH BATHROOM PER SECTION 424.2 OF THE 2021 INTERNATIONAL PLUMBING CODE.
** The code requires only one service sink per building if all occupancies have access to the service sink at all times.
***A family restroom is required per 2021 IBC, section 1110.2.3. Per 2021 IBC, section 2902.1.2, and 2021 IPC, section 403.1.2, family restrooms are permitted to be included in the number of required fixtures for either male or female occupants.

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No **N/A – new building**

Exempt Building: No Provide code or statutory reference:

Climate Zone: 3A

Method of Compliance: ASHRAE 90.1 - Performance
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: **Membrane roof on tapered rigid insulation on metal decking over steel structure**
U-Value of total assembly: **0.039 max.**
R-Value of insulation: **R-25 minimum (greater at tapered areas)**
Skylights in each assembly: **N/A**
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

PRE-CAST INSULATED PANELS:
Description of assembly: **4-1/2" concrete, 3" XPS rigid foam, 4-1/2" concrete**
U-Value of total assembly: **0.058 (R-17.1 per manufacturer's literature)**
R-Value of insulation: **R-17.1**

CMU WALLS:
Description of assembly: **Masonry veneer, air space, 1.5" XPS rigid foam, CMU wall, 2-1/2" metal stud (16" O.C), GWB**
U-Value of total assembly: **0.122 max.**
R-Value of insulation: **R-7.6 CI**

METAL STUD WALLS:
Description of assembly: **Exterior finish (masonry veneer, MCM wall panels), air space, 1" XPS rigid foam, 1/2" gypsum sheathing, 8" metal stud (16" O.C., with 3-1/2" batt insulation), GWB**
U-Value of total assembly: **0.077 max.**
R-Value of insulation: **R-13 + R-5**

Openings (windows or doors with glazing)
Curtainwall:
U-Value of assembly: **0.28 (winter), 0.26 (summer)**
Solar heat gain coefficient: **0.25**
projection factor (PF=A/B): **0.276 (full-height glazing)**
Door U-Values: **0.77**

Insulated Hollow Metal Doors:
U-Value of assembly: **0.38**
Solar heat gain coefficient: **N/A**
projection factor (PF=A/B): **N/A**
Door R-Values: **R-2.33**

Walls below grade (each assembly) **N/A**
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly) **N/A**
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: **5" concrete slab on grade with perimeter insulation**
U-Value of total assembly: **0.1**
R-Value of insulation: **R-10.8**
Horizontal/vertical req't slab heated: **24" horizontal** **No**

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

CAMP LEJEUNE OFFICE OF PUBLIC WORKS

UFC COMPLIANCE INTENT

CJMW Building Code Design Criteria and Compliance Intent:
The purpose of this summary is to inform the Authority Having Jurisdiction of the design team's intended path of compliance with the Unified Facilities Criteria for the Museum of the Marine project. Due to the nature of this project (privately funded on federal property but outside of the Camp Lejeune perimeter) some unique conditions exist.

The building will comply with Unified Facilities Criteria standards where applicable / feasible, and the 2021 International Building Code as referenced by UFC 1-200-01 DOD Building Code (01 September 2022 with Change 1, 24 February 2023), Section 1-6.1.

Documents referenced for anti-terrorism / means of egress / fire protection / energy efficiency
- Anti-Terrorism: UFC 4-010-01; as directed in UFC 1-200-01, section 1-6.3.4.3
- Means of Egress: UFC 3-600-01, referencing NFPA 101; as directed in UFC 1-200-01, section 2-10
- Fire Protection: UFC 3-600-01, referencing NFPA 101; as directed in UFC 1-200-01, sections 2-7 and 2-9
- Energy Efficiency: UFC 1-200-02, referencing ASHRAE 90.1; as directed in UFC 1-200-01, section 2-13

Document versions used are as follows:
- UFC 4-010-01 "DoD Minimum Antiterrorism Standards for Buildings": 12 December 2018 with Change 2, 30 July 2022
- UFC 3-600-01 "Fire Protection Engineering for Facilities": 8 August 2016 with Change 6, 6 May 2021
- UFC 1-200-02 "High Performance and Sustainable Building Requirements": 1 December, 2020 with Change 02, 1 June 2022
- NFPA 101-2021 Life Safety Code
- ASHRAE 90.1 – 2013 "Energy Standard for Buildings Except Low-Rise Residential Buildings"; Version as directed by UFC 1-200-02, Section 2-3.1.1, with design commencing prior to 7 April 2023

Anti-terrorism Design Criteria, per previous correspondence with Camp Lejeune (via confirmation letter on 2/14/2011):
- Location: Controlled Perimeter or Parking and Roadways without a Controlled Perimeter
- Building Category: Inhabited
- Applicable Level of Protection: Very Low
- Conventional Construction Standoff Distance (UFC 4-010-01 Table C-1): 93 feet (windows control): See Civil Plan for standoff distances provided.
- Design Basis Threat: Active shooter(s) and / or explosive, Type I (220 Pound bomb)
- Exterior glazing will be laminated and designed to meet blast resistant requirements as outlined in UFC 4-010-01, Section B-3.1, utilizing "Conventional Construction Standoff Distances."
- Exterior landscape and overhead mounted architectural features shall conform to the requirements of UFC 4-010-01.

Per previous Camp Lejeune approval (via letter on 12/10/2010), UFC 1-300-09N "Navy and Marine Corps Design Procedures" Design Procedures" is not applicable to this project (metric unit requirements, drawing numbering and noting requirements, UFGS format for project specifications, Geotechnical / soil borings requirements, etc.). Camp Lejeune has requested a complete set of "As Built or Record" drawings and specifications upon construction completion to have on file in the Technical Records Section, Public Works Divisions located in building 1005.

Several UFC sections are not applicable to this project. The following are examples, as previously approved by Camp Lejeune (via letter on 12/10/2010):
- UFC-3-110-03 "Roofing", Section 2-3.1 requirement for a 1/2:12 roof pitch has been reduced to 1/4:12.
- UFC 3-120-01 "Air Force Sign standard" (Now titled "Design: Sign Standards") is not applicable to this project
- UFC 3-190-02FA "Builders Hardware" has been cancelled. Locks shall be a minimum of BHMA grade 1 and hinges BHMA grade 2.
- UFC Design guides that are specific to an individual Department of Defense Agency, other than Department of Navy, are not applicable to this project.

List above is a sampling, not all inclusive: multiple other UFC sections also do not apply to this Project.

APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) Select one
Seismic (I_E) Select one

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor ____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Wind Speed _____ mph (ASCE-7)
Exposure Category Select one

SEISMIC DESIGN CATEGORY: Select one
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) Select one
Spectral Response Acceleration S_S_____%g S_1_____%g
Site Classification (ASCE 7) Select one
Data Source: Select one
Basic structural system Select one
Analysis Procedure: Select one
Architectural, Mechanical, Components anchored? Select one

LATERAL DESIGN CONTROL: Select one

SOIL BEARING CAPACITIES:
Select one _____ psf
Pile size, type, and capacity _____

APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

REFER TO SHEET M0.01

APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or total exterior wattage specified vs. allowed

REFER TO SHEET E0.01

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

OCCUPANT LOAD CHART

STORY	ROOM #	ROOM NAME	AREA	OCC. LOAD FACTOR (NFPA 101, TABLE 7.3.1.2)	OCCUPANT LOAD	OCC. CLASS FOR FIXTURE COUNTS
Ground Floor						
--		**IBC Gross**	**25,960.0 SF**	--	--	--
--		Great Hall	4,947.0 SF	7	707	A-2
--		Café	869.0 SF	15	58	A-2
--		Kitchen	404.0 SF	100	5	A-2
--		Meeting Room	1,041.0 SF	15	70	A-2
--		Classroom	1,047.0 SF	15	70	A-2
--		Large Gallery	4,509.0 SF	30	151	A-3
--		Small Gallery	1,084.0 SF	30	37	A-3
--		Medium Gallery	3,569.0 SF	30	119	A-3
--		Office	240.0 SF	150	2	B
--		Warming Kitchen	838.0 SF	100	9	B
--		Viewing Room	233.0 SF	150	2	B
--		Gift Shop	565.0 SF	30	19	M
--		AV	225.0 SF	300	1	S
--		Partition Stacking	83.0 SF	300	1	S
--		Table Storage	223.0 SF	300	1	S
--		Storage	906.0 SF	300	4	S
--		Collections Storage	308.0 SF	300	2	S
--		Vestibule Staging	876.0 SF	300	3	S
--		Electric	196.0 SF	500	1	S
--		Emg. Dist.	143.0 SF	500	1	S
--		Fire Pump	200.0 SF	500	1	S
--		Boiler	538.0 SF	500	2	S
VCC Gross minus Assigned			2,916.0 SF	150	20	B
Gross Ground Floor Occupant load					**1286**	
A-2 Total					910	
A-3 Total					307	
B Total					33	
M total					19	
S Total					17	
Mechanical Mezzanine						
--		**IBC Gross**	**2,252.0 SF**	**500**	**5**	**S**
TOTAL BUILDING						
--		**IBC Gross**	**28,212.0 SF**	--	**1,291**	--

PLAN NORTH

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#	Description	Date

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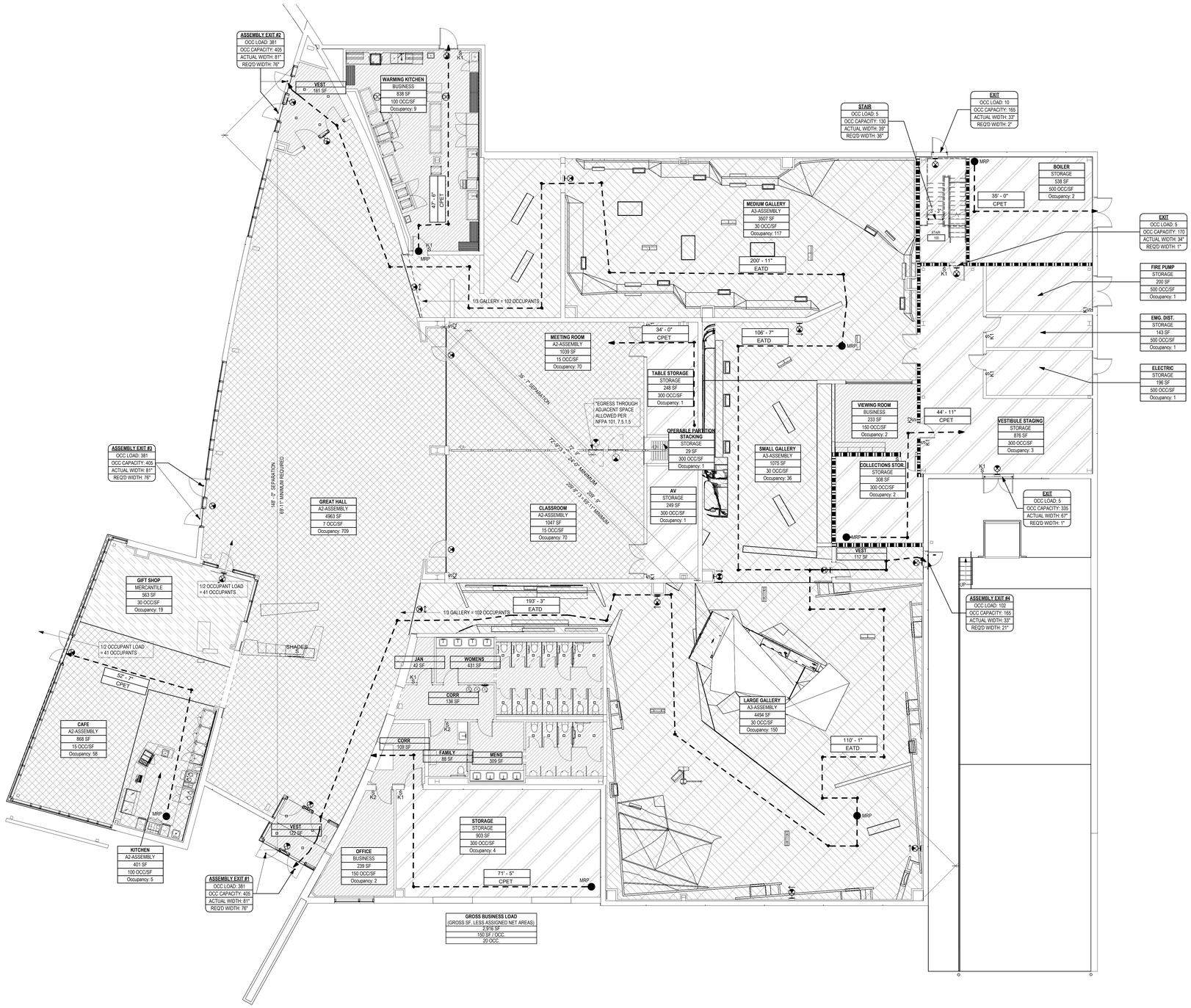
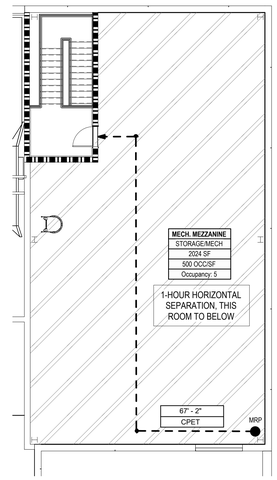
CODE - APPENDIX B

G0.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker



1ST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0" **C5**



2ND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0" **G3**

SUMMARY OF EXIT CAPACITY

EXITS #1 - 3

1,119 OCCUPANTS (REMAINING) + 18 OCCUPANTS (GROSS BUSINESS LOAD) = **1,137 OCCUPANTS**
OCCUPANT LOAD: 1,137 OCCUPANTS / 3 EXITS = **379 OCCUPANTS / EXIT**
OCCUPANT CAPACITY: **405**
ACTUAL WIDTH: **81"**
REQUIRED WIDTH: 379 OCCUPANTS X 0.2 = **76" / EXIT**

EXIT #4

1/3 CAPACITY OF TOTAL GALLERY SPACE: 9,156 SF / 3 = 3,052 SF
OCCUPANT LOAD: 3,052 SF / 30 SF/OCCUPANT = **102 OCCUPANTS**
OCCUPANT CAPACITY: **165 OCCUPANTS**
ACTUAL WIDTH: **33"**
REQUIRED WIDTH: 102 OCCUPANTS X 0.2 = **21"**

REMAINING = 6,104 SF / 30 SF/OCCUPANT = **204 OCCUPANTS**
(ACCOUNTED FOR IN EXITS #1 - #3)

"MAIN EXIT" CALCULATION (NFPA 101, 12.2.3.6.2(2))
- TOTAL ASSEMBLY LOAD: 1,226
- 1,226 / 2 = 613 REQUIRED TO BE SERVED BY MAIN EXIT
- 613 X 0.2" PER OCCUPANT (NFPA 101, 7.3.3) = 122" REQUIRED
- 4 DOOR LEAVES* @ 40.5" CLEAR (43.5" LEAVES, LESS HINGE OFFSET & STOP)
= 174" CLEAR, THEREFORE OK

*: NORTH AND SOUTH EXITS ALLOWED TO CONTRIBUTE TO REQUIRED PER NFPA 101, SECTION 12.2.3.6.5

ROOM NAME	OCCUPANCY	AREA	OCC. LOAD FACTOR	OCCUPANCY LOAD
GREAT HALL	A2-ASSEMBLY	4,963 SF	7	710
STORAGE	STORAGE	903 SF	300	5
OFFICE	BUSINESS	239 SF	150	3
AV	STORAGE	249 SF	300	2
CLASSROOM	A2-ASSEMBLY	1,047 SF	15	71
MEETING ROOM	A2-ASSEMBLY	1,039 SF	15	71
TABLE STORAGE	STORAGE	248 SF	300	2
OPERABLE PARTITION STACKING	STORAGE	29 SF	300	2
2/3 REMAINING GALLERY SPACE	A-3 ASSEMBLY	6,104 SF	30	204
1/2 GIFT SHOP	A-2 ASSEMBLY	283 SF	15	19
1/2 CAFE	A-2 ASSEMBLY	434 SF	15	29
1/2 KITCHEN	A-2 ASSEMBLY	203 SF	100	3

1,119 OCCUPANTS

GROSS BUSINESS LOAD
(GROSS SF, LESS ASSIGNED NET AREAS)

GROSS FLOOR AREA: 25,960 SF
- ASSIGNED NET AREA: 23,336 SF
2,624 SF

2,624 SF / 150 SF OCCUPANT = 18 OCCUPANTS

OCCUPANT LOAD CHART

OCCUPANT LOADS CALCULATED BASED ON OCCUPANT LOAD FACTORS TAKEN FROM NFPA 101, TABLE 7.3.1.2 AS AMENDED BY UFC 3-600-01 TABLE 10-1:

ASSEMBLY USE:
- CONCENTRATED, WITHOUT FIXED SEATING: 7 SF NET
- LESS CONCENTRATED, WITHOUT FIXED SEATING: 15 SF NET
- KITCHENS: 100 SF GROSS
- EXHIBIT GALLERIES; MUSEUMS: 30 SF NET
- CONFERENCE ROOMS W/ TABLES & CHAIRS: 15 SF NET

BUSINESS USE: 150 SF GROSS

MERCANTILE USE:
- SALES AREA ON GROUND FLOOR:30 SF GROSS
- STORAGE AREAS: 300 SF GROSS

STORAGE OCCUPANCIES: MAXIMUM PROBABLE NUMBER OF OCCUPANTS
- 300 SF GROSS /USED

MECH., ELEC., OTHER BLDG. EQUIPMENT SPACES: 500 GROSS

IT EQUIPMENT ROOMS: 300 GROSS

ANY SPACE OR THE FACILITY AS A WHOLE SHALL NOT EXCEED 1 PERSON PER 7 SF OF NET FLOOR SPACE PER UFC 3-600-01, SECTION 10-3.2

OCCUPANCY LEGEND

- A2-ASSEMBLY
- A3-ASSEMBLY
- BUSINESS
- MERCANTILE
- STORAGE

LIFE SAFETY LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR SMOKE BARRIER
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- EXIT ROUTE
- EXIT SIGN

DESCRIPTION	
OCC LOAD: 000	OCCUPANT LOAD
OCC CAPACITY: 000	OCCUPANT CAPACITY
ACTUAL WIDTH: 000"	ACTUAL EGRESS WIDTH
REQ'D WIDTH: 36"	REQUIRED EGRESS WIDTH

LIFE SAFETY NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH 2012 IBC AND ANY LOCAL CODES.

2. CEILING HEIGHTS SHALL BE 9'-0" A.F.F UNLESS NOTED OTHERWISE. CEILING FINISH SHALL BE SMOOTH PAINTED, UNLESS NOTED OTHERWISE.

3. REFER TO ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED DEVICES, LIGHTS, AND EXIT SIGNS.

4. PROVIDE ACCESS PANELS IN GWB. CEILINGS AS REQUIRED BY PLUMBING, FIRE PROTECTION, ELECTRICAL, AND MECHANICAL DRAWINGS.

5. A FIRE RATED SUB-CEILING IS ATTACHED TO THE UNDERSIDE OF ALL FLOOR AND CEILING ASSEMBLIES. CEILING FINISHES SHOWN SHALL BE SUSPENDED BELOW THIS FIRE CEILING UNLESS NOTED OTHERWISE. UNIT CEILINGS SHALL BE THE FIRE RATED SUB-CEILING.

6. PROVIDE A FIRE RATED GYPSUM WALLBOARD ENCLOSURE AT RECESSED DOWN LIGHTS IN FIRE RATED CEILINGS.

7. CENTER ACOUSTICAL CEILING TILE IN CORRIDORS AND ROOMS UNLESS NOTED OTHERWISE. ACOUSTICAL TILE SHOULD BE NO LESS THAN 6" WIDE. USE AN OVERSIZED TILE CUT FROM A 2X4 TILE WHEN NECESSARY TO ENSURE A TILE IS NO LESS THAN 6" IN A 2X2 GRID.

8. CENTER LIGHTS, SPRINKLER HEADS, ETC. WITHIN CEILING TILE, UNLESS NOTED OTHERWISE.

9. G.C. SHALL COORDINATE HEIGHT OF ALL SUSPENDED FIXTURES WITH ARCHITECT ON SITE PRIOR TO FINAL INSTALLATION.

PLAN NORTH

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#	Description	Date

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LIFE SAFETY PLAN

G0.02

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

UL Product iQ®

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UL Solutions

BXUV.U415 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

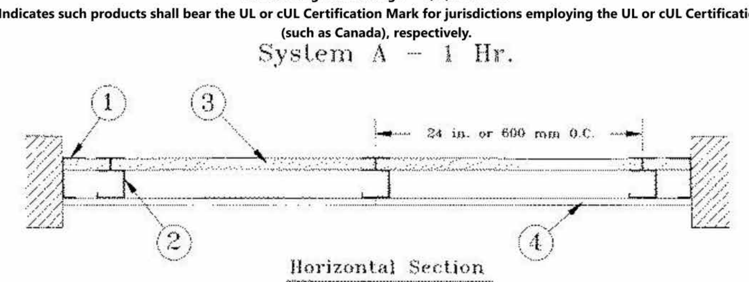
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

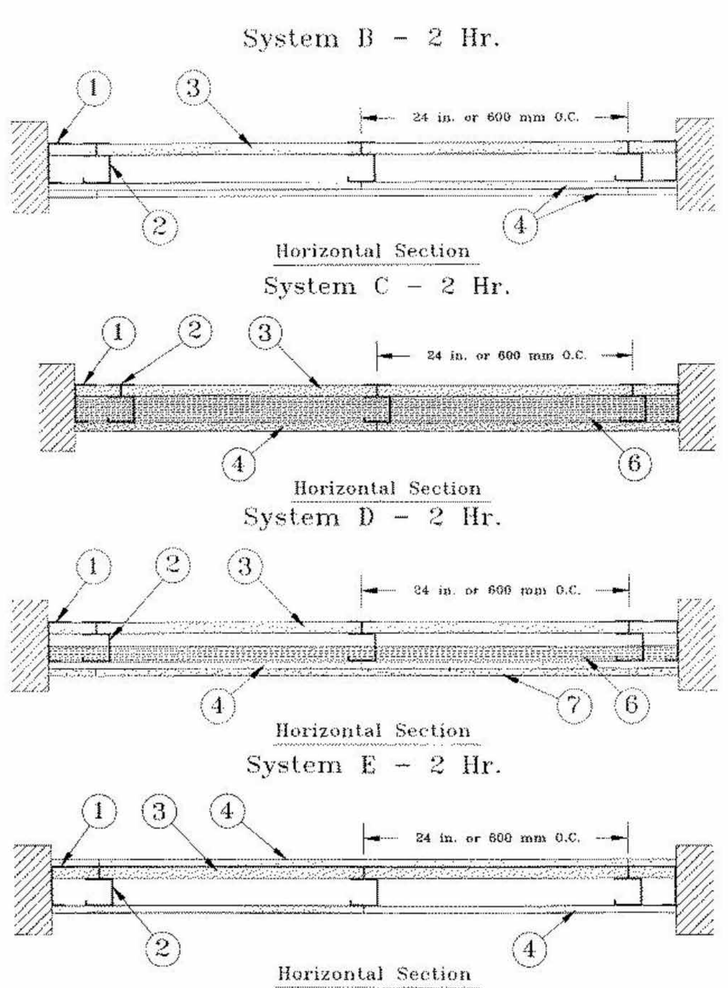
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

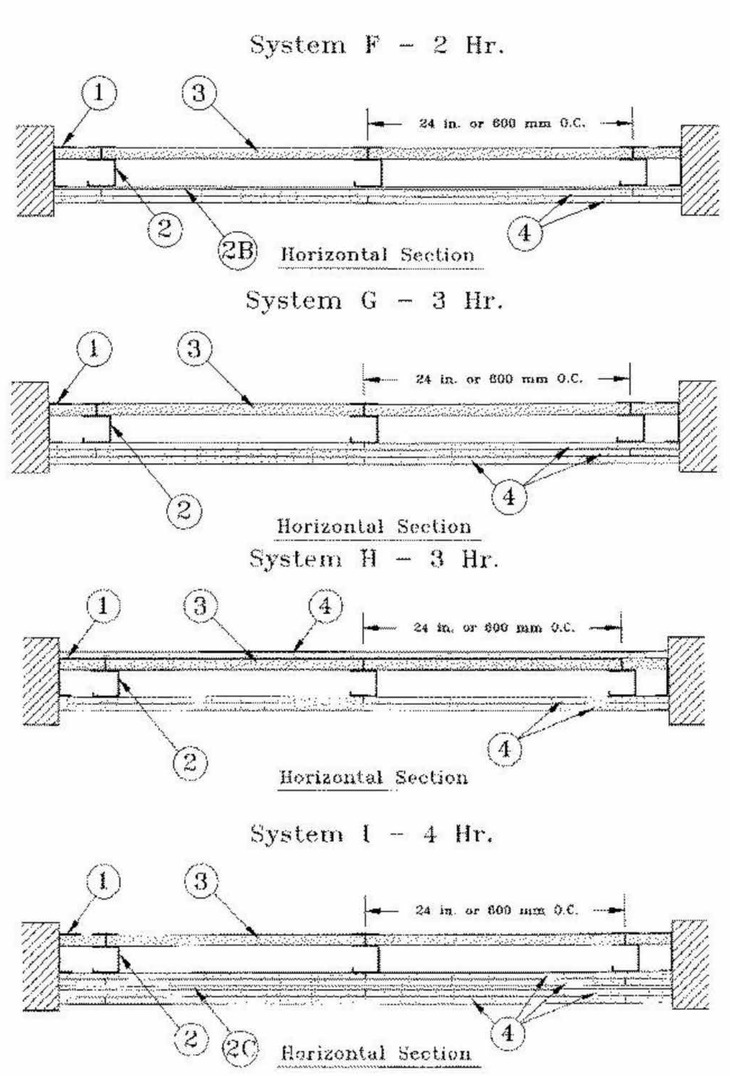
Design No. **U415**

February 14, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**







1. **Floor, Side and Ceiling Runners —** "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound —** (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-02-14

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UL Solutions

BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263

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Fire-resistance Ratings - ANSI/UL 263

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BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

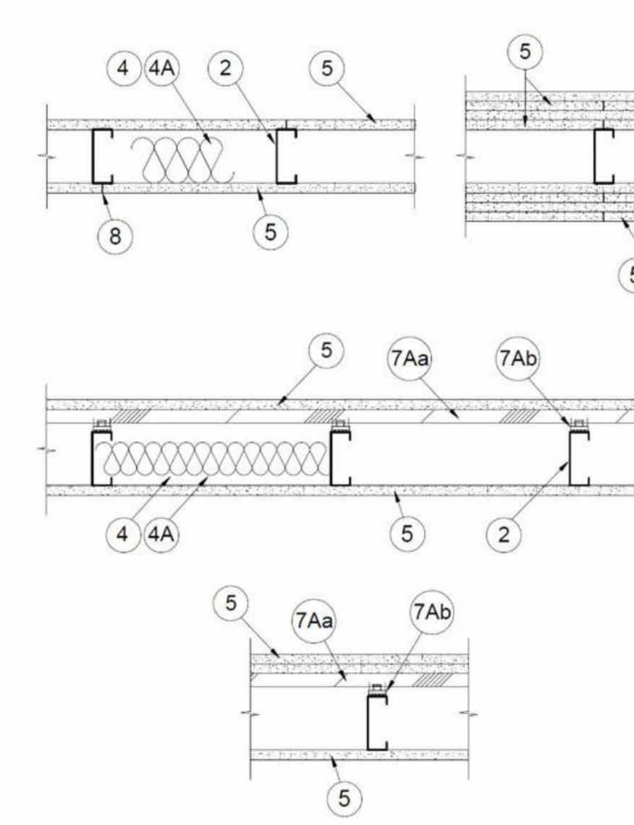
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No**. U419**

September 5, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

CJMW
ARCHITECTURE

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Winston-Salem, NC 27101
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www.cjmw.com

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ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

Feedback

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic* —** (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP and Spraytite® 81205

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

Feedback

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

Feedback

CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

Feedback

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

Feedback

5L. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.**Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

Feedback

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

Feedback

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

Feedback

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-09-05

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Feedback

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UL Solutions

BXUV.N823 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. N823

April 29, 2020

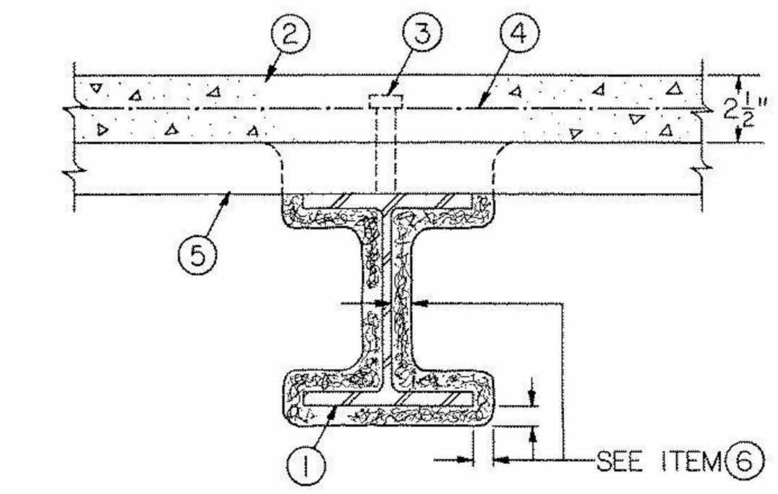
Restrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr.

Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Feedback



1. **Steel Beam —** W8x28 min size.

2. **Normal Weight or Lightweight Concrete —** Compressive strength 2800 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight 150 pcf. For lightweight concrete, unit weight 102 pcf.

3. **Shear Connector (Optional) —** Studs, 3/4 in. diameter headed type or equivalent per AISC specifications. Welded to top flange of beam through the steel floor units.

4. **Welded Wire Fabric —** (optional) 6x6, W1.4xW1.4.

5. **Steel Floor and Form Units —** 1-1/2 to 3 in. deep fluted, cellular or corrugated units, welded to beam.

6. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water to the final thicknesses shown below. Crest areas shall be filled with Spray-Applied Fire Resistive Materials above the beam. Beam surfaces must be clean and free of dirt, loose scale and oil. Min average density of 13 pcf with min. ind density of 11 pcf for Types II, II HS, , or DC/F. Min avg and min ind densities of 22 and 19 pcf, respectively, for Type HP. For method of density determination, refer to Design Information Section.

Normal Weight Concrete, Fluted Floor and Form Units, Min Thkns, In.

Rating, Hr	Restrained Beam	Unrestrained Beam
1	3/8	3/8
1-1/2	3/8	1/2
2	1/2	3/4
2-1/2*	3/4	15/16
3	1	1-3/16
3-1/2*	1-1/4	1-3/8
4	1-7/16	1-9/16

Feedback

Lightweight Concrete, Fluted Floor and Form Units, Min Thkns, In.

Rating, Hr	Restrained Beam	Unrestrained Beam
1	3/8	3/8
1-1/2	7/16	5/8
2	3/4	1
2-1/2*	1	1-5/16
3	1-1/4	1-9/16
3-1/2*	1-1/2	1-13/16
4	1-13/16	2

Normal Weight Concrete, Cellular or Corrugated Form Units, Min Thkns, In.

Rating, Hr	Restrained Beam	Unrestrained Beam
1	3/8	3/8
1-1/2	3/8	1/2
2	1/2	13/16
2-1/2*	7/8	1-1/8
3	1	1-5/16
3-1/2*	1-1/4	1-5/8
4	1-7/16	1-7/8

Lightweight Concrete, Cellular or Corrugated Form Units, Min Thkns, In.

Rating, Hr	Restrained Beam	Unrestrained Beam
1	7/16	7/16
1-1/2	1/2	11/16
2	3/4	1
2-1/2*	1-1/16	1-5/16
3	1-1/4	1-5/8
3-1/2*	1-9/16	1-15/16
4	1-13/16	2-3/16

*The 2-1/2 and 3-1/2 hour ratings are for use when mineral fiber boards, polystyrene insulation exceeding 5 pcf, or polyisocyanurate insulation are used over the concrete in D900 series designs as stated in the front of the Fire Resistance Directory - III. FLOOR-CEILINGS AND ROOF-CEILINGS, item 21. Roof Insulation.

Feedback

ISOLATEK INTERNATIONAL — Type D-C/F, HP, II, or Type II HS. Investigated for exterior use. Type EBS or Type X adhesive/surface sealer optional.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-04-29

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UL Solutions

BXUV.X829 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. X829

May 03, 2018

Ratings — 1/2, 1, 1-1/2, 2, 3, 4 Hr

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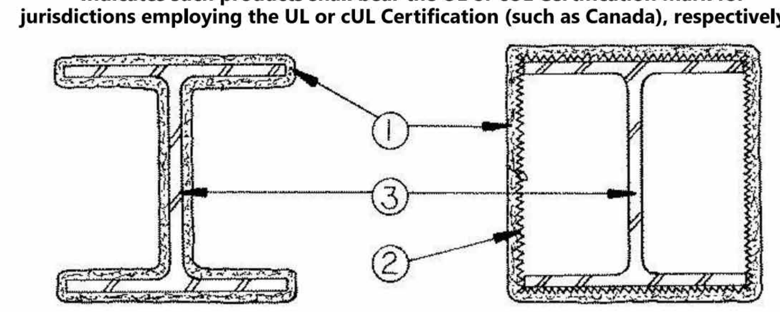

Feedback

1. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water, in one or more untamped coats at the thickness shown in the table below to steel surfaces which are free of dirt, oil or scale. Use of adhesive is optional. Minimum average untamped density is 13 pcf with minimum ind untamped density of 11 pcf for Types II, II HS, and D-C/F. Min avg and min ind untamped densities of 22 and 19 pcf, respectively, for Type HP. Tamping is optional. For method of density determination refer to Design Information Section.
The thickness of Spray-Applied Fire Resistive Materials (Item 1) required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h of contour sprayed columns may be determined by the equation:

$$h = \frac{R}{1.01\ (W/D) + 0.66}$$

Where:

h=Protection material thickness in the range 0.375-3.75 in.

R=Fire resistance rating in hours (1-4 h).

D=Heated perimeter of steel column in inches.

W=Weight of steel column in lbs per foot.

W/D=0.55 to 7.0

The thickness of Spray-Applied Fire Resistive Materials in the range of 0.375-3.75 in. required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h of contour sprayed columns with W/D=0.30-0.55 may be determined by the equation:

$$h = \frac{R}{0.95\ (W/D) + 0.45}$$

As an alternative to the equations, the minimum thickness of protection Material required for various fire resistance ratings of contour or box sprayed columns may be determined from the table below:

Column Size	W/D	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W8X10	0.33	1-1/4	1-13/16	2-5/16	3-9/16	—
*W6X16	0.57	11/16	1-1/8	1-9/16	2-7/16	3-1/4
W8X28	0.68	11/16	1-1/8	1-7/16	1-7/8	2-5/16
W10X49	0.83	11/16	1	1-1/4	1-11/16	2-1/8
W12X106	1.46	7/16	3/4	1	1-7/16	1-15/16
W14X233	2.52	5/16	1/2	1/2	15/16	1-5/16
W14X730	6.68	3/8	3/8	3/8	3/8	9/16
* = A 1/2 Hour Rating may be obtained on a minimum W6x16 column with a minimum 3/8 in. of material.						
The thicknesses of protection material contained in the table below are applicable when the protection of the contour sprayed column's flange tips are reduced to one-half.						
W8X10	0.33	1-3/8	2	2-5/8	—	—
W6X16	0.57	13/16	1-5/16	1-3/4	2-3/4	3-11/16

Feedback

CJMW ARCHITECTURE

119 Brookstown Rd.
Winston-Salem, NC 27101
p. 336.724.1503
www.cjmw.com

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UL DESIGNS

G0.04

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

W8X28	0.68	13/16	1-5/16	1-11/16	2-9/16	3-7/16
W10X49	0.83	13/16	1-1/8	1-7/16	1-15/16	2-7/16
W12X106	1.46	1/2	13/16	1-1/8	1-5/8	2-3/16
W14X233	2.52	7/16	9/16	9/16	1-1/16	1-1/2
W14X730	6.68	3/8	3/8	3/8	1/2	11/16

ISOLATEK INTERNATIONAL — Type D-C/F, HP, II, or II HS. Type D-C/F, HP or II investigated for exterior use. Type EBS or Type X adhesive/sealer optional.

2. **Metal Lath —** (Optional for contour application) — 3.4 lb/sq yd galvanized or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 13 SWG galvanized steel wire spaced vertically 6 in. O.C. or alternately, attached with No. 24 MSG spring clips, 1/2 in. wide, pushed onto column flanges, vertically spaced 6 in. O.C.

3. **Steel Column —** Min. sizes as shown above in Item 1.

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Last Updated on 2018-05-03

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BXUV.H505 - Fire-resistance Ratings - ANSI/UL 263

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BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. H505

June 30, 2020

Unrestrained Assembly Rating —1 and 2 Hr (Refer to Item 4)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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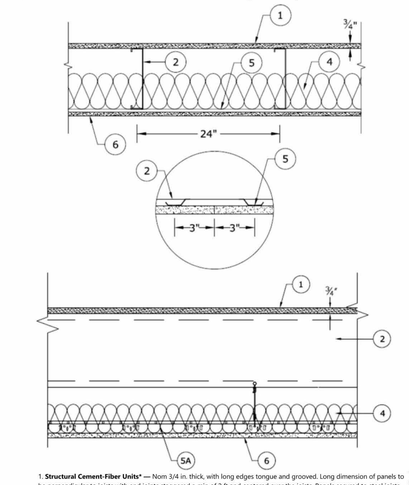

1. **Structural Cement-Fiber Units* —** Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to joists with end joints staggered a min of 2 ft and centered over the joists. Panels secured to steel joists with 1-5/8 in. long No. 8 self-drilling, self-countersinking steel screws spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the side edges of the panel.
As an alternate to the 1-5/8" long No. 8 fastener, the following power-actuated pins may be used for min. 1/8" thick, hot-rolled A36 steel sections for joist specified in Item 2E:

Feedback

Hilti pin model X-U 32MX with a min. 0.157" shank diameter min. 1-1/4" long, DeWalt pin model S045B-PWR with a min. 0.157" shank diameter min. 1-1/4" long or Aerosmith model S324HPG with a min. 0.145 shank diameter min. 1-1/4" long.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

2. **Steel Joists —** Channel-shaped, min 8 in. deep with min 1-5/8 in. wide flanges and 1/2 in. long stiffening flanges. Fabricated from min No. 16 MSG galv steel. Min yield strength of 50,000 psi. Joists spaced max 24 in. OC. Supplied with appropriate rim tracks of same size and gauge.

2A. **Clip Angles —** (Not Shown) - 18 MSG, 7-1/4 in. long steel angles with 1-1/2 in. legs for 8 in. deep joists. Secured to track and joist with six No.10, 3/4 in. long, self -drilling, hex head screws, located 1 in. from each end of the clip angle and at the centerline. Only one clip angle per joist end.

2B. **Structural Steel Members* —** (Not Shown) - As an alternate to Item 2, - Pre-fabricated steel truss system consisting of cold-formed, galvanized steel chord and web sections. Truss top and bottom chords min. 4 in. high by 1-11/16 in. wide by 18 ga. Truss webs min. 1-1/2 in. by 1-1/2 in. by 20 ga. square tube bent and triangulated as shown. Chords and web connected by fillet welds. Overall truss depth min. 12 in. Trusses spaced a max of 24 in. OC. Truss ends placed over and secured to Bearing Seats (Item 2B1) with two min. #10 by 3/4 in. long screws on each side of Bearing Seats. Allowable loading must be calculated so as to stress the steel trusses to a maximum of 98% of the stress calculated in accordance with the allowable stress design approach outlined in the manufacturer's load tables.
EISEN PANEL SYSTEMS L L C — Type Gateway Panel pre-fabricated steel truss system.

2B1. **Bearing Seats* —** (Not Shown) — Galvanized steel tube, min. 1 in. by 2-1/2 in. by 13 ga., oriented vertically and welded to min. 4 in. by 4 in. by 10 ga., galvanized steel plate. Bearing seats spaced 24 in. OC and attached to bearing supports by welding or screw attaching the steel plate to the bearing supports.
EISEN PANEL SYSTEMS L L C — Type Gateway Panel bearing seat.

2B2. **Bracing —** (Not Shown) - For use with Item 2B — Galvanized channel-shaped steel sections, min. 1-1/2 in. wide with 1/4 in. flanges, min. 16 ga. Bracing attached to underside of trusses with min. #10 by 3/4 in. long screws through truss bottom chord. Bracing installed in truss cavities by scoring, bending and flattening the ends to form a tab for attachment to truss top and bottom chords. Two pieces of bracing crossed and tabs secured to truss chords with min. #10 by 3/4 in. long screws. Location and spacing of underside and crossed bracing to be specified on truss engineering.

2C. **Structural Steel Members* —** As an alternate to Item 2 — Pre-fabricated light gauge steel truss system consisting of cold-formed, galvanized steel cord and web sections. Trusses fabricated in various sizes, depths, and from various steel thickness. Trusses minimum 12 in. deep, spaced a max of 24 in. OC.
AEGIS METAL FRAMING, DIV OF MITEK — Ultra-Span, Pre-fabricated Light Gauge Steel Truss System

TRUSSTEEL, DIV OF ITW BUILDING COMPONENTS INC — TrussSteel

2D. **Steel Trusses —** As an alternate to Item 2, - Cold-formed galvanized steel truss chord and web sections manufactured from steel conforming to ASTM A653 Grade 33 or higher yield strength. Steel thickness of truss chord and web sections as required by design to meet governing code requirements. Truss members connected together with No. 10-16 (min size) self-drilling screws or equivalent. Truss chord and web members to be designed in accordance with the American Iron and Steel Institute's Specification for the Design of Cold-Formed Steel Structural Members, 1996 Edition. Trusses spaced a max of 24 in. OC. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 12 in.

2E. **Steel Joists —** As an alternate to Item 2, minimum 12K1, spaced a max 24 in. OC.

Feedback

2F. **Structural Steel Members* —** As an alternate to Item 2 - Limited to the 1 Hour Ratings. Pre-fabricated light gauge steel truss system consisting of cold-formed, galv steel cord and web sections. Trusses fabricated in various sizes, depths and from various steel thickness. Trusses spaced a max of 24 in. OC. Location of lateral bracing for truss chord and web sections to be specified on truss engineering.
TRUSS LINK INC — Truss Link

3. **Joist Bridging —** (Not Shown) - For use with Item 2 — Installed immediately after joists are erected and before construction loads are applied. The bridging shall consist of rim track cut 8 in. longer than span between joists, with rim track legs cut through 4 inches back from each end and bent at a 90° angle and screw attached through the rim track legs into the joists with four screws at each end, two on top and two on the bottom at each end of rim track. Flat strap bracing of 1-1/2 in. wide by 20-ga galvanized steel is also screw-attached to bottom joist flange at mid-span.

4. **Batts and Blankets* —** (When Insulation is not used the rating shall be 1 Hr.). 3-1/2 in. thick glass fiber batt insulation draped over the resilient channels. Any glass fiber batt insulation bearing the UL Classification Marking for Surface Burning Characteristics having a flame spread index of 25 or less and a smoke developed index of 50 or less may be used. See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers.

5. **Resilient Channels —** Formed of No. 25 MSG galv steel, 1/2 in. deep, spaced max 12 in. OC, perpendicular to joists. Channel splices located beneath joists and overlapped 4 in. Channels secured to each joist with one 1/2 in. long Type S-12 low profile steel screw. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint as shown on the illustration above. Additional channels shall extend min 6 in. beyond each side edge of board.

5A. **Steel Framing Members* —** (Optional, Not Shown) — When it is desired to drop the ceiling below the bottom plane of the structural steel members (Item 2), a suspension system may be used in lieu of the resilient channels. Main runners, cross tees, cross channels and wall angle as listed below:

a. **Main Runners —** Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, a min of 4 in. below bottom flange of joist, twist-tied to #10 -3/4 in. long screws installed in the web, 1/2 in. from the bottom flange of the steel joist. Hanger wires to be located adjacent to main runner/cross tee intersections.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 ft or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX.

5B. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 5 — Furring channels and Steel Framing Members as described below:

a. **Furring channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 12 in. OC, perpendicular to joists. Channel secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional channels shall be positioned so that the distance from the end of the board to the center of the first channel is 3 in. and from the board end to the center of the next channel is 12 in.

Feedback

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to joists (Item 2). Clips spaced 48 in. OC and secured to the bottom chord of joists with min 1-5/8 in. long No. 8 self-drilling, self-tapping, bugle, flat or hex head screw through the center grommet. Furring channels are friction fitted into clips. Additional clips required to hold furring channel that supports the gypsum board butt joints.
PLITEQ INC — Type Genie Clip

5C. **Alternate Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Items 5 to 5B, furring channels and Steel Framing Members as described below.

a. **Furring channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 12 in. OC, perpendicular to joists. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the steel joists (Item 2). Clips spaced a max of 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 6.
PAC INTERNATIONAL L L C — Types RSIC-1 or RSIC-1 (2.75)

5D. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 5.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 12 in. OC, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 6), each extending a min of 6 in. beyond both side edges of the board.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, friction-fitted into the channel caddy on the Steel Framing Members (Item 5Dc) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Steel Framing Members* —** Spaced 48 in. OC. max along joist, and secured to the joist on alternating joists with two, No. 10-16 TEK screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

5E. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 5.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 12 in. OC perpendicular to joists and friction fit into Steel Framing Members (Item 5Eb). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 6). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

Feedback

b. **Steel Framing Members* —** Used to attach furring channels (Item 5Ea) to joists. Clips spaced 48 in. OC and secured along joist webs at each furring channel intersection with min. 3/4 in. long self-drilling No. 10-16 TEK screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

6. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels, furring channels or cross tees of suspension system. Gypsum panels secured to resilient channels, furring channels or drywall suspension system with 1 in. long Type S bugle-head screws spaced 8 in. OC, with screws located minimum of 1 in. from the side joints and 3 in. from the end joints. End joints secured to both resilient/furring channels as shown in end joint detail. When **Steel Framing Members** (Item 5B or SC) are used, the butt joints in the gypsum board shall be supported by two furring channels. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one RSIC-1, RSIC-1 (2.75) or Genie clip at each end of the channel.
When **Steel Framing Members** (Item 5D) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6 as per hourly ratings. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 5E) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6 as per hourly ratings. Butt joints staggered minimum 24 in. OC.

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

7. **Finishing System - (Not Shown) —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum panels.

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Last Updated on 2020-06-30

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UL DETAILS

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ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker

STRUCTURAL GENERAL NOTES

DESIGN CRITERIA

BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE (IBC)

DESIGN STANDARDS:
1. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) ASCE/SEI 7-16 "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES"
2. U.S. DEPARTMENT OF DEFENSE, UNIFIED FACILITIES CRITERIA (UFC):
   A. UFC 1-200-01, SEPTEMBER 1, 2022 "DOD BUILDING CODE"
   B. UFC 3-301-01, FEBRUARY 4, 2022 "STRUCTURAL ENGINEERING"
   C. UFC 4-010-01, JULY 30, 2022 "DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS"
      1. LEVEL OF PROTECTION: VERY LOW
      2. DESIGN BASIS THREAT: 220 LBS. TNT EQUIVALENT CHARGE MASS AT A STAND-OFF DISTANCE OF 93 FEET.

BUILDING RISK CATEGORY: III

BLAST LOADING ON CURTAIN WALLS (ASTM F2248-19): 120 PSF 3-SECOND EQUIVALENT DESIGN LOAD

DESIGN GRAVITY LOADS:

	LIVE LOAD	SUPERIMPOSED DEAD LOAD
ROOF (TYPICAL)	20 PSF	25 PSF ★
DOCK CANOPY ROOF	20 PSF	5 PSF
ROOF OVER MECH. RM.	20 PSF	35 PSF
ROOF OVER GALLERY	20 PSF	35 PSF ★
CEILING JOISTS	0 PSF	10 PSF
PLATFORM JOISTS	20 PSF	10 PSF
2ND FLOOR MECH. RM.	150 PSF	15 PSF
SLAB-ON-GRADE (TYPICAL)	150 PSF	0 PSF
SLAB-ON-GRADE (GALLERY & COLLECTIONS STORAGE)	250 PSF ★★	0 PSF

★ ADDITIONAL CONCENTRATED SUSPENDED LOADS FOR ROOF FRAMING OVER THE GREAT HALL AND GALLERY SPACES: 1000 LBS.FROM ONE, SINGLE BOTTOM CHORD PANEL POINT OF EACH ROOF JOIST OR BOTTOM FLANGE OF BEAMS. OTHER ADDITIONAL SUSPENDED SUPERIMPOSED DEAD LOADS FOR PARTITIONS, PIPING OR EQUIPMENT ARE NOTED ON THE PLANS.
★★ LOADS FOR HEAVY EQUIPMENT OR VEHICLE EXHIBITS ARE ADDITIONAL AND INDICATED ON PLAN WHERE THEY OCCUR.

SNOW LOAD: Ce = 1.0, Ct = 1.2, I=1.1, Pg = 10 psf, Pf = 9.24 psf, Pm = 11 psf

RAIN LOAD CRITERIA:
INTENSITY (100 YRS.): 7.98 INCHES/15 MIN.
STATIC HEAD: 2 INCHES
MIN. OVERFLOWN DRAIN DIA.: 6 INCHES
HYDRAULIC HEAD: 3 INCHES
UNIFORM RAIN LOAD: 26 PSF (CONTROLS)

WIND LOAD CRITERIA:
BASIC DESIGN WIND SPEED (Vult): 147 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd): 114 MPH
EXPOSURE FACTOR: B
GROUND ELEVATION FACTOR: 1.0
WIND BASE SHEARS: Vx = 221K Vy = 235.0K

SEISMIC LOAD CRITERIA:
MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 11.3%g S1 = 5.5%g
IMPORTANCE FACTOR: 1.25
SITE CLASSIFICATION: D
SITE COEFFICIENTS: Fa = 1.6 Fv = 2.4
DESIGN SPECTRAL RESPONSE ACCELERATIONS: Sds = 0.197 Sd1 = 0.138
DESIGN SEISMIC CATEGORY: B
SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS & ORDINARY PRECAST SHEAR WALLS
RESPONSE MODIFICATION FACTOR(R): 3.50
DEFLECTION AMPLIFICATION FACTOR(Cd): 2.25
SYSTEM OVERSTRENGTH FACTOR: 2.50
REDUNDANCY FACTOR: 1.00
RESPONSE COEFFICIENT (Cs): 0.0430
SEISMIC BASE SHEAR: Vx = 79K Vy = 87K
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
ARCHITECTURAL AND MECHANICAL COMPONENTS ANCHORED FOR SEISMIC? NO
LATERAL DESIGN CONTROL: X: WIND Y: WIND

WIND PRESSURES FOR COMPONENTS AND CLADDING

BASIS: ASCE 7-16; FIGURE 30.3-1; 147 MPH; EXPOSURE B; ROOF SLOPE <10 DEGREES

WIND PRESSURES FOR EXTERIOR WALLS, DOORS, WINDOWS AND STOREFRONT						
	EFFECTIVE WIND AREA(2)					
	10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	200 SQ. FT.	500 SQ. FT.
ZONE 4(1)	40 PSF	39 PSF	36 PSF	35 PSF	33 PSF	31 PSF
ZONE 5(1)	49 PSF	46 PSF	42 PSF	39 PSF	36 PSF	31 PSF

(1) ZONE 4 PRESSURES SHALL BE USED TO DESIGN ALL WALL COMPONENTS AND CLADDING, EXCEPT ZONE 5 SHALL BE USED FOR ELEMENTS WITHIN 13'-3" OF A BUILDING CORNER.
(2) EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH. FOR CLADDING FASTENERS, THE EFFECTIVE WIND AREA SHALL NOT BE GREATER THAN THE AREA THAT IS TRIBUTARY TO AN INDIVIDUAL FASTENER.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED IN CONFORMANCE WITH BUILDING CODE CHAPTER 17.
2. A STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED AND MAKES REFERENCE TO OBSERVATION AND TESTING FOR THE FOLLOWING BUILDING SYSTEMS.
   A. INSPECTION OF FABRICATORS
   B. STEEL CONSTRUCTION
   C. COLD-FORMED STEEL CONSTRUCTION
   D. CONCRETE CONSTRUCTION
   E. MASONRY CONSTRUCTION
   F. SOILS
   G. ARCHITECTURAL COMPONENTS
   H. MECHANICAL AND ELECTRICAL COMPONENTS

SOILS SUPPORTING SLABS AND FOUNDATIONS

GEOTECHICAL ENGINEER: ECS SOUTHEAST, LLP
WILMINGTON, NC

THE FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS CONTAINED IN THE "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING ANALYSIS", DATED SEPTEMBER 13, 2007 BY THE PROJECT GEOTECHNICAL ENGINEER: PROJECT NO. 22-13112

DESIGN SOIL BEARING PRESSURE: 2000 PSF

FROST DEPTH: 12"
1. BOTTOM OF ALL EXTERIOR FOOTINGS AND TURNED-DOWN SLABS SHALL BEAR AT OR BELOW SPECIFIED FROST DEPTH MEASURED FROM TOP OF GRADE.

BUILDING PAD:
1. THE BUILDING PAD SHALL BE PREPARED AND VERIFIED TO MEET THE SPECIFICATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.

DRAINAGE COURSE:
1. FREE-DRAINING, WASHED ABC STONE FREE OF FINES OR CLEAN SAND WITH LESS THAN 3% FINES. GRADE TO TOLERANCE REQUIREMENTS OF ACI 302, SECTION 4.1.3 (+0", -1")

TESTING AND INSPECTION:
1. THE PROJECT GEOTECHNICAL ENGINEER SHALL SET ACCEPTANCE CRITERIA AND FREQUENCY OF INSPECTIONS AND TESTS FOR SOILS SUPPORTING SLABS AND FOUNDATIONS.
2. AN INDEPENDENT TESTING LABORATORY (ITL) SHALL BE RETAINED TO INSPECT, TEST AND ASSESS ALL SOILS SUPPORTING SLABS AND FOUNDATIONS.
3. INSPECTIONS AND TESTS SHALL BE COORDINATED BY THE CONTRACTOR AND ITL TO INCLUDE, BUT NOT LIMITED TO:
   A. SELECTED FILL MATERIAL
   B. PROOFROLLING
   C. MEASUREMENT OF CUT AND FILL FOR EARTH AND ROCK
   D. COMPACTION
   E. FIELD ADJUSTMENTS TO SUBGRADES OR BEARING CONDITIONS
   F. FIELD DENSITY TESTS OF ENGINEERED FILL
   G. ALL FOUNDATION BEARING STRATA

CAST-IN-PLACE CONCRETE

DESIGN AND CONSTRUCTION STANDARDS:
1. AMERICAN CONCRETE INSTITUTE (ACI) ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301-20 "SPECIFICATIONS FOR CONCRETE CONSTRUCTION."
2. AMERICAN CONCRETE INSTITUTE (ACI) ACI 302-.1R-15 "GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION"

DESIGN COMPRESSIVE STRENGTH AT 28 DAYS:
SLABS-ON-GRADE: 4,000 PSI
ELEVATED SLAB: 4,000 PSF
CAST-IN-PLACE WALLS: 4,000 PSI
ALL OTHER CONCRETE: 3,000 PSI
PRECAST CONCRETE PER SUPPLIERS SPECIFICATION

DENSITY: 145 PCF (NORMAL WEIGHT)

MIX DESIGNS:
1. CEMENT SHALL CONFORM TO ASTM C150, TYPE 1 OR 1L PORTLAND CEMENT, UNLESS OTHERWISE ACCEPTED BY THE STRUCTURAL ENGINEER.
2. FLY ASH SHALL BE ASTM C618, TYPE C OR F, BUT NOT EXCEEDING 4% BY LOSS ON IGNITION. FLY ASH SHALL NOT EXCEED 25% OF CEMENT CONTENT BY WEIGHT.
3. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. AGGREGATE SIZE SHALL BE #57 OR #67 FOR ALL CONCRETE EXCEPT 3/8" MAXIMUM FOR MASONRY GROUT. PROVIDE WELL-GRADED AGGREGATE FOR SLABS-ON-GRADE.
4. AIR ENTRAINING ADMIXTURE SHALL BE USED IN ACCORDANCE WITH ACI 301 IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING.
5. ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 5", EXCEPT CONCRETE UTILIZING HIGH OR MID-RANGE WATER REDUCERS SHALL HAVE A MAXIMUM SLUMP OF 8".

REINFORCING STEEL:
1. REBAR: ASTM A615, GRADE 60
2. WELDED WIRE MAT: ASTM A184 AND ASTM A185
3. LAP SPLICES:
   A. ALL BARS MARKED CONTINUOUS ("CONT.") SHALL BE LAPPED A MINIMUM OF 57 BAR DIAMETERS.
   B. ALL WALL AND FOOTING DOWELS SHALL EXTEND 30 BAR DIAMETERS OR 24" INTO WALL, WHICHEVER IS GREATEST (U.N.O. IN DETAILS).
   C. WELDING OR TACK WELDING OF REINFORCING BARS IS PROHIBITED.
   D. WELDED WIRE MAT AND FABRIC SHALL BE LAPPED 1'-0" AT ALL SPLICES.
4. CONCRETE COVER FOR REINFORCEMENT:
   A. UNFORMED SURFACE CAST AGAINST EARTH: 3"
   B. FORMED SURFACE EXPOSED TO EARTH OR WEATHER: 2"
   C. FORMED SURFACE NOT EXPOSED TO EARTH OR WEATHER:
      SLABS: 3/4"
      WALLS: 1"
      CURBS & PIERS: 1 1/2"

PLACEMENT:
1. WHEN HOT WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN CONFORMANCE WITH ACI 305.
2. WHEN COLD WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN CONFORMANCE WITH ACI 306.
3. PLACE AND CONSOLIDATE CONCRETE IN CONFORMANCE WITH ACI 309.
4. NO CONCRETE FOOTINGS OR PIERS SHALL BE SLEEVED FOR PIPING OR UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR OTHERWISE ACCEPTED BY THE STRUCTURAL ENGINEER.
5. ALUMINUM EMBEDMENTS OF ANY KIND ARE PROHIBITED IN CONCRETE.

SLAB FINISHING:
1. FINISH SLAB-0N-GRADE FREE OF TROWEL MARKS, UNIFORM IN TEXTURE AND APPEARANCE WITH SURFACE PLANE FLATNESS OF F_F 35 AND F_L 25 IN CONFORMANCE WITH ASTM E1155.
2. APPLY PENETRATING CONCRETE DENSIFIER/DUSTPROOFER OVER ALL INTERIOR FLOORS. APPLY IN STRICT CONFORMANCE WITH SUPPLIERS SPECIFICATIONS.
3. THE CONTRACTOR, CONCRETE SUPPLIER AND CONCRETE FINISHERS SHALL FOLLOW ACI 302.1R-15 GUIDELINES FOR PROPORTIONING, MIXING, TRANSPORT AND PLACEMENT OF CONCRETE FOR SLABS.

CURING:
1. CURE CONCRETE SLABS WITH MINIMUM 30% SOLIDS, LIQUID MEMBRANE CURING COMPOUND APPLIED WITHIN TWO HOURS AFTER COMPLETION OF FINISHING.
2. DO NOT APPLY MEMBRANE CURING COMPOUND ON SURFACES TO RECEIVE FINISHES THAT ARE INCOMPATIBLE WITH THE CURING PRODUCT. APPLY DISSIPATING CURING COMPOUND OR OTHER NON-MEMBRANE MEANS.
3. ALTERNATIVELY, APPLY CONTINUOUS MOIST CURING FOR A MINIMUM OF SEVEN DAYS USING WATERPROOF BUILDING PAPER, POLYETHYLENE SHEET OR SATURATED BURLAP.

REINFORCING STEEL SHOP DRAWINGS:
1. SUBMIT DRAWINGS TO ARCHITECT FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT IN COMPLIANCE WITH ACI SP-66. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.

TESTING AND INSPECTION:
1. AN INDEPENDENT TESTING LABORATORY (ITL) SHALL BE RETAINED THAT IS QUALIFIED TO INSPECT AND TEST CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROGRAM:
   A. SLUMP: ASTM C143; ONE TEST FOR EACH CONCRETE LOAD AT POINT OF DISCHARGE.
   B. AIR CONTENT: ASTM C173; ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH CYLINDERS
   C. TEMPERATURE: FOR EACH LOAD, AT POINT OF DISCHARGE, TEST WHEN AIR TEMPERATURE IS BELOW 40 DEG. F AND ABOVE 80 DEG. F, AND EACH TIME A SET OF COMPRESSIVE STRENGTH CYLINDERS IS MADE.
   D. COMPRESSIVE STRENGTH: ASTM C31; ONE SET OF 4 STANDARD CYLINDERS FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 10,000 SQUARE FEET OF SURFACE AREA PLACED. TEST ONE CYLINDER AT 7 DAYS, TWO AT 28 DAYS, WITH ONE HELD IN RESERVE.
   E. RECORD OF TEST RESULTS SHALL BE SUBMITTED BY THE ITL TO THE CONTRACTOR AND ARCHITECT.

PRECAST CONCRETE SANDWICH WALL PANELS

DESIGN STANDARDS:
1. AMERICAN CONCRETE INSTITUTE (ACI) ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301-20 "SPECIFICATIONS FOR CONCRETE CONSTRUCTIONS"
2. PRECAST/PRESTRESSED CONCRETE INSITUTE (PCI) MNL 116 "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF STRUCTURAL PRECAST CONCRETE PRODUCTS" AND MML 117 "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS."
3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
4. AMERICAN WELDING SOCIETY (AWS) AWS D1.1 "STRUCTURAL WELDING CODE - STEEL, AWS D1.4" AND "STRUCTURAL WELDING CODE - STEEL REINFORCING BARS."

QUALIFICATIONS:
1. MANUFACTURER SHALL HAVE A MINIMUM OF FIVE (5) YEARS OF PRODUCTION EXPERIENCE IN ARCHITECTURAL PRECAST CONCRETE WORK OF THE QUALITY AND SCOPE REQUIRED ON THIS PROJECT.
2. MANUFACTURER SHALL BE A MEMBER OF THE PRECAST/PRESTRESSED CONCRETE INSTITUTE AND PCI CERTIFIED.

GENERAL:
1. PRECAST CONCRETE SANDWICH WALL PANELS AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, HANDLED AND ERECTED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS OF THE NCSBC, ACI, PCI, AISC AND AWS.
2. DESIGN OF PRECAST WALL PANELS SHALL INCLUDE GRAVITY LOAD, WIND AND SEISMIC LOADS CONSISTENT WITH THE DESIGN CRITERIA SPECIFIED HEREIN. DESIGN SHALL ACCOMMODATE STRESSES DUE TO HANDLING AND PLACEMENT.
3. EXCEPT WHERE NOTED OTHERWISE IN THE DRAWINGS, THE WEIGHT OF PRECAST WALL PANELS SHALL BE SUPPORTED DIRECTLY UPON FOUNDATIONS. PANEL WEIGHT SHALL NOT BE IMPOSED UPON ANY STEEL ROOF BEAMS EXCEPT WHERE SPECIFICALLY DETAILED IN THE DRAWINGS.
4. ENGINEERING FOR PRECAST CONCRETE WALL PANELS SHALL BE COMPLETED BY A DELEGATED SPECIALTY STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA AND EITHER IN DIRECT EMPLOY OR CONTRACTED TO THE PRECAST CONCRETE SUPPLIER.
5. DESIGN AND CONSTRUCTION DRAWINGS SEALED BY THE DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL BE PROVIDED BY THE PRECAST SUPPLIER. DRAWINGS SHALL INCLUDE A DESCRIPTION OF ALL APPLIED LOADS AND LOAD COMBINATIONS USED IN DESIGN, IN ADDITION TO ALL REACTIONS FROM THE PRECAST WALL PANELS UPON THEIR SUPPORTS.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND INCLUDE THE COST OF ALL TEMPORARY BRACING OR SHORING NECESSARY FOR THE HANDLING AND PLACEMENT OF THE PRECAST WALL PANELS. THE GENERAL CONTRACTOR SHALL ALSO INCLUDE THE PRICE OF ANY OTHER ITEMS SPECIFIED BY THE PRECAST SUPPLIER NOT ALREADY INCLUDED IN THESE DRAWINGS AND NOT OTHERWISE PROVIDED BY THE PRECAST SUPPLIER'S SUBCONTRACT PRICE.

STRUCTURAL MASONRY

DESIGN STANDARDS:
1. THE MASONRY SOCIETY (TMS) TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES, 2016"

CONCRETE MASONRY UNITS (CMU): ASTM C90
DENSITY: LIGHTWEIGHT, 105 PCF MAX.
NET AREA UNIT COMPRESSIVE STRENGTH (ASTM C140): 2000 PSI
DESIGN COMPRESSIVE STRENGTH (f'm): 2000 PSI
1. AGGREGATE: ASTM 331, MANUFACTURED BY THE ROTARY KILN PROCESS, FREE OF ORGANIC IMPURITIES THAT WILL CAUSE RUSTING, STAINING OR POPOUTS. BOTTOM ASH OR OTHER WASTE PRODUCTS ARE NOT PERMITTED.

MORTAR: ASTM C270, TYPE "M" OR "S", WITH 28-DAY COMPRESSIVE STRENGTH OF 1800 PSI

FIRE-RESISTANCE RATINGS: ASTM E119 BY EQUIVALENT MASONRY THICKNESS.
1. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS.

CONCRETE GROUT:
AGGREGATE: ASTM C476, EITHER FINE (SAND) OR COARSE (SAND + #78M STONE)
28-DAY COMPRESSIVE STRENGTH (f'c): 2500 PSI

GROUTING:
1. ALL BOND BEAMS, REINFORCED VERTICAL CELLS AND OTHER CMU NOTED TO BE SOLID GROUTED SHALL BE FILLED WITH CONCRETE GROUT, NOT MORTAR.
2. FOR CMU WALL CONSTRUCTION INDICATED TO BE "GROUTED SOLID," PROVIDE FULLY MORTARED HEAD JOINTS AND BED JOINTS. UNFILLED SPACES OR GAPS WITHIN OR BETWEEN CMU UNITS ARE NOT PERMITTED.
3. VERTICAL GROUTING SHALL BE LOW LIFT OR HIGH LIFT AS FOLLOWS:
   A. LOW LIFT GROUTING SHALL BE USED FOR ALL CAVITY WALLS AND MAY BE USED AT ALL WALLS AT THE OPTION OF THE CONTRACTOR. LIFTS SHALL NOT EXCEED 4 FEET IN HEIGHT.
   B. HIGH LIFT GROUTING IS PERMISSABLE ONLY FOR FILLING OF CMU AND SHALL NOT EXCEED ONE STORY IN HEIGHT.
4. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4 FEET. WIRE BAR POSITIONER ACCESSORIES FOR SUCH SUPPORT SHALL BE USED.

STEEL REINFORCING:
1. REBAR: ASTM A615, GRADE 60
   A. SPLICED REINFORCING SHALL BE LAPPED 72 BAR DIAMETERS, EXCEPT WALL DOWELS IN FOOTINGS SHALL BE SPLICED 24" MINIMUM TO EACH VERTICAL BAR, U.N.O
   B. VERTICAL WALL REINFORCING SHALL BE CENTERED IN GROUTED CELLS, U.N.O.
2. HORIZONTAL JOINT REINFORCING: ASTM A951
   PROTECTION: HOT-DIP GALVANIZED
   TYPE: LADDER
   SIZE: 3/16" DIA. SIDE RODS AND 9 GA. CROSS RODS
   SPACING: 16" MAX.
   A. SIZE FOR CMU WALL WIDTHS INDICATED, AND 1" MAX. FROM OUTSIDE FACE OF SOLID UNIT WYTHES.
   B. PROVIDE PREFABRICATED CORNER AND TEE UNITS.
   C. LAP 6" MIN. AT ALL SPLICES INCLUDING CORNERS AND TEES.
   D. DO NOT EXTEND THROUGH WALL CONTROL JOINTS.
   E. DO NOT PLACE IN CURVED MASONRY WALLS, USE REINFORCED BOND BEAMS AT 4'-0" MAXIMUM VERTICAL SPACING.

WALL BRACING:
1. MASONRY WALLS ARE DESIGNED TO BE PERMANENTLY BRACED AT THE ROOF AND FOUNDATION. TEMPORARY CONSTRUCTION BRACING IS REQUIRED TO STABILIZE MASONRY WALLS OVER 8 FEET TALL ABOVE TOP OF FOOTING UNTIL THE SUPPORTING ROOF FRAMING AND STEEL ROOF DECK IS FULLY SECURED IN PLACE.
2. TEMPORARY WALL BRACING SHALL BE APPLIED IN CONFORMANCE WITH OSHA STANDARDS AS WELL AS THE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION," DATED DECEMBER, 2012, DEVELOPED BY THE COUNCIL FOR MASONRY WALL BRACING OF THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA). FURTHER INFORMATION AND EXAMPLES MAY BE FOUND IN THE "MASONRY WALLBRACING DESIGN HANDBOOK" DATED MARCH, 2003, BY THE MCAA.

STRUCTURAL STEEL

DESIGN STANDARDS:
1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), "STEEL CONSTRUCTION MANUAL," FIFTEENTH EDITION
2. AMERICAN WELDING SOCIETY (AWS), "STRUCTURAL WELDING CODE," AWS D1.1

GRADES OF STEEL:
WIDE FLANGE ROLLED SHAPES: ASTM A572, GRADE 50 OR ASTM A992
PLATES, CHANNELS, ANGLES AND BARS: ASTM A36 OR A572, GRADE 50
ROUND HOLLOW STRUCTURAL SECTIONS: ASTM A53, GRADE B
SQUARE AND RECTANGULAR STRUCTURAL SECTIONS: ASTM A500, GRADE B
ANCHOR BOLTS: ASTM F1554, GRADE 36
HEADED STUDS: ASTM A108

GENERAL:
1. ALL BEAMS SHALL BE PLACED WITH MILL CAMBER UP.
2. ALL RE-ENTRANT CORNERS FOR CUTS AND COPES SHALL HAVE MINIMUM 1/2" RADIUS.

CONNECTIONS:
1. MEMBER FORCES AND REACTIONS INDICATED IN THE DRAWINGS ARE ASD LOADS, AND INCLUDE FACTORS APPLICABLE TO CODE BASED ASD LOAD COMBINATIONS. NO FURTHER REDUCTION IN FORCES OR INCREASES IN DESIGN STRESSES ARE PERMITTED.
   A. OPTIONALLY, FOR LRFD CONNECTION DESIGN, MULTIPLY FORCES INDICATED IN THE DRAWINGS BY 1.6.
2. UNLESS BEAM REACTIONS ARE SHOWN ON THE DRAWINGS AS "R=xK", CONNECTIONS OF STEEL BEAM FRAMING SHALL BE DESIGNED FOR ONE-HALF (1/2) THE MAXIMUM TOTAL UNIFORM LOAD ON THE MEMBER AS DEFINED IN TABLES 3-6 THRU 3-9 IN PART 3, "MAXIMUM TOTAL UNIFORM LOAD, KIPS" IN THE AISC STEEL CONSTRUCTION MANUAL, FIFTEENTH EDITION.
   A. BEAM AND GIRDER SHEAR CONNECTIONS NEED NOT EXCEED THE PRACTICAL WEB DEPTH UNLESS REQUIRED TO SUPPORT THE REACTION WHERE DIRECTLY SPECIFIED ON THE PLANS.
   B. MINIMUM BEAM REACTION SHALL BE 10 KIPS FOR ASD DESIGN AND 16 KIPS FOR LRFD DESIGN.
3. DIAPHRAGM COLLECTOR BEAMS HAVE AXIAL LOAD REACTIONS WHERE INDICATED ON PLAN AS "A=xK".
4. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325N BOLTS, 3/4" DIA. MINIMUM, UNLESS NOTED OTHERWISE.
5. SLIP CRITICAL CONNECTIONS WITH A325SC BOLTS SHALL BE USED FOR ALL BOLTED MOMENT CONNECTIONS, BRACING CONNECTIONS, DIAPHRAGM COLLECTOR BEAMS AND WHERE INDICATED ON THE DRAWINGS.

PAINTING & GALVANIZING:
1. PREPARE STEEL SURFACES AND PRIME PAINT ALL STEEL WITH FABRICATOR'S STANDARD NON-LEAD PRIMER.
   A. THICKNESS: 1.5 MILS MIN.
   B. CLEANING: HAND TOOL (SSPC-SP-2) OR POWER TOOL (SSPEC-SP-3)
   C. DO NOT PAINT STEEL MEMBERS TO BE SPRAY-FIREPROOFED.
2. HOT DIP GALVANIZE ALL EXTERIOR EXPOSED STRUCTURAL STEEL, INCLUDING BUT NOT LIMITED TO THE LOADING DOCK CANOPY FRAMING AND ALL MASONRY LINTELS OVER EXTERIOR DOORS, WINDOWS AND STOREFRONTS.
3. SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR FINISH PAINT COAT ON EXPOSED STRUCTURAL STEEL.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS):
1. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE FABRICATED, ERECTED AND CONNECTED IN COMPLIANCE WITH CHAPTER 16.3, SECTION 10 "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" OF THE AISC STEEL CONSTRUCTION MANUAL.
2. AESS CATEGORY: "AESS 2" FEATURE ELEMENTS VIEWED AT A DISTANCE GREATER THAN 20 FT., INCLUDING ALL WELDED CONNECTIONS.
   A. REMOVE ALL BACKING BARS EXPOSED TO VIEW. REMOVE BURS AND GRIND SMOOTH.

NON-SHRINK GROUT:
1. PREMIXED, NON-METALLIC, NON-CORROSIVE, NON-STAINING GROUT CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING, AND WATER REDUCING AGENTS. COMPLY WITH CRD-C621-80. MINIMUM ASTM C109 COMPRESSIVE STRENGTH SHALL BE 2500 AFTER ONE DAY, AND 7000 PSI AFTER 28 DAYS.

SHOP DRAWINGS:
1. SUBMIT DRAWINGS TO ARCHITECT FOR DETAILS, FABRICATION AND ERECTION OF STRUCTURAL STEEL. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.

TESTING AND INSPECTION:
1. AN INDEPENDENT TESTING LABORATORY (ITL) SHALL BE RETAINED TO TEST AND INSPECT STRUCTURAL STEEL AND WELDING IN CONFORMANCE WITH THE FOLLOWING:
   A. VISUALLY INSPECT ALL FIELD WELDS, CHECK FOR SIZE, PINHOLES, UNDERCUT AND OVERLAP. ANY VISUAL INDICATION OF CRACKS SHALL BE CHECKED FURTHER USING MAGNETIC PARTICLE METHODS.
   B. CONFIRM THAT ALL FIELD WELDING INDICATED ON THE ERECTOR'S FIELD USE DRAWINGS AND THE CONSTRUCTION DOCUMENTS HAS BEEN FULLY PROVIDED.
   C. PERFORM NON-DESTRUCTIVE TESTS OF WELDS AS FOLLOWS:
      3. COMPLETE PENETRATION WELDS - TEST ENTIRE LENGTH OF ALL SHOP AND FIELD WELDS FOR CANTILEVERED BEAMS AND HANGERS. USE RADIOGRAPHIC OR ULTRASONIC METHODS.
   D. VISUALLY INSPECT ALL HIGH-STRENGTH BOLTED CONNECTIONS FOR SNUG TIGHT FIT. CONFIRM THAT ALL BOLTING INDICATED ON THE FABRICATOR'S FIELD USE SHOP DRAWINGS HAS BEEN FULLY PROVIDED.
   E. TEST BOLTS IN ALL SLIP-CRITICAL BOLTED CONNECTIONS IN CONFORMANCE WITH AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
   F. PERFORM VISUAL INSPECTIONS OF ALL COPES AND CUTS IN MEMBERS. CHECK FOR NOTCHES AND SHARP RE-ENTRANT CORNERS.
   G. REPORT ANY FIELD MODIFICATIONS NOT SUPPORTED BY CONSTRUCTION DOCUMENTATION.
   H. RE-TEST ALL NON-CONFORMING WORK AFTER CORRECTION.
   I. REPORT RESULTS OF ALL INSPECTIONS AND TESTS TO THE STRUCTURAL ENGINEER.

POST-INSTALLED CONCRETE/MASONRY MECHANICAL ANCHORS

GENERAL:
1. POST-INSTALLED MECHANICAL ANCHORS ARE PERMITTED FOR EMBEDMENT IN CONCRETE OR SOLID GROUTED MASONRY ONLY. EMBEDMENT OF ANCHORS INTO BRICK OR UNGROUTED HOLLOW CONCRETE MASONRY IS NOT PERMITTED.
2. MECHANICAL ANCHORS INSTALLED IN GROUT-FILLED CMU SHALL BE 1 1/2" MINIMUM FROM ANY MORTAR JOINT AND 4" FROM ANY FREE EDGE.
3. NO MORE THAN ONE MECHANICAL ANCHOR PER MASONRY CELL IS PERMITTED.
4. MECHANICAL ANCHORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH SUPPLIERS SPECIFICATIONS.

SCREW TYPE CARBON STEEL CONCRETE/MASONRY ANCHORS, "SCREW ANCHORS":
1. PROVIDE ONE OF THE FOLLOWING PRE-APPROVED ANCHORS OR SUBMIT FOR APPROVAL:
   "KWIK HUS-EZ (KH-EZ)" BY HILTI
   "TITEN HD" BY SIMPSON STRONG-TIE
2. MINIMUM NOMINAL EMBEDMENT DEPTHS FOR SCREW ANCHORS:
   1/4" ANCHORS: 2 1/2"
   3/8" ANCHORS: 3 1/4"

WEDGE TYPE CARBON STEEL CONCRETE/MASONRY ANCHORS "WEDGE ANCHORS":
1. PROVIDE ONE OF THE FOLLOWING PRE-APPROVED ANCHORS OR SUBMIT FOR APPROVAL:
   "KWIK BOLT 3 (KB3)" BY HILTI
   "WEDGE-ALL" BY SIMPSON STRONG-TIE
2. MINIMUM NOMINAL EMBEDMENT DEPTHS FOR WEDGE ANCHORS:
   3/4" "WEDGE ALL" ANCHORS: 6 3/4" IN CONCRETE
   5 1/4" IN GROUT-FILLED CMU
   3/4" "KWIK BOLT 3" ANCHORS: 5 5/8" IN CONCRETE
   4 3/4" IN GROUT-FILLED CMU

POST-INSTALLED CONCRETE/MASONRY EPOXY ANCHORS

GENERAL:
1. POST-INSTALLED EPOXY ANCHORS ARE PERMITTED FOR EMBEDMENT IN CONCRETE, BRICK OR CMU.
2. EPOXY ANCHORS IN MASONRY SHALL BE 1 1/2" MINIMUM FROM ANY MORTAR JOINT AND 4" FROM ANY FREE EDGE.
3. NO MORE THAN ONE EPOXY ANCHOR PER CMU CELL IS PERMITTED.
4. EPOXY ANCHORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH SUPPLIERS SPECIFICATIONS.
5. THE FOLLOWING CARBON STEEL CONCRETE/MASONRY EPOXY ANCHORS BY HILTI ARE PRE-APPROVED. SUBMIT ALTERNATIVE ANCHORS FOR APPROVAL PRIOR TO USE.
   A. CONCRETE OR GROUT-FILLED CMU APPLICATIONS:
      THREADED RODS: 3/4" DIA. "HAS-E"
      ADHESIVE: "HIT-HY 200"
      MIN. EMBEDMENT IN CONCRETE: 6 3/4"
   B. BRICK OR HOLLOW CMU APPLICATIONS:
      THREADED RODS: 1/2" DIA. "HAS-E"
      ADHESIVE: "HIT-HY 70" IN "HIT-SC" SCREENS
      MIN. EMBEDMENT IN HOLLOW CMU: 2"

STEEL JOISTS

DESIGN STANDARDS:
1. STEEL JOIST INSTITUTE (SJI) "45TH EDITION STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS"

GENERAL:
1. ALL STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS.
2. JOISTS SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF 1/360 OF SPAN. EXTRA POINT LOADS GIVEN FOR ROOF TOP EQUIPMENT SHALL BE ADDED TO THE ROOF LIVE LOAD FOR DEFLECTION CALCULATIONS.
3. ALL STEEL JOIST ROOF SYSTEMS SHALL BE DESIGNED TO RESIST NET UPLIFT WIND PRESSURES AS SPECIFIED ON THE "NET WIND UPLIFT PLAN" ON SHEET S2.04.

END SUPPORT:
1. COMPLY WITH SJI MINIMUM BEARING REQUIREMENTS. PROVIDE JOIST END EXTENSIONS BEYOND SJI REQUIREMENTS WHERE DETAILED.
2. K AND CS SERIES JOIST SEATS SHALL BE CONNECTED TO SUPPORTS WITH 1/8" FILLET WELDS, 2" LONG EA. SIDE OF JOIST SEAT.
3. K AND CS SERIES JOISTS AT COLUMN CENTERLINES SHALL BE BOLTED TO STRUCTURAL STEEL SUPPORTS WITH 2, 1/2" DIAMETER BOLTS.

JOIST BRIDGING:
1. HORIZONTAL RODS OR ANGLES IN CONFORMANCE WITH THE SJI SPECIFICATIONS.
2. PROVIDE DIAGONAL BRIDGING WHERE DETAILED ON THE DRAWINGS AND AS REQUIRED IN COMPLIANCE WITH SJI.

SHOP DRAWINGS:
1. SUBMIT DRAWINGS TO ARCHITECT FOR REVIEW, INCLUDING BILLS OF MATERIAL FOR LAYOUT AND DETAILS OF STEEL JOISTS. ALL SHOP DRAWINGS SHALL BEAR THE EMBLEM OF MEMBERSHIP OF THE STEEL JOIST INSITUTE. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.

STEEL DECK

DESIGN STANDARDS:
1. STEEL DECK INSTITUTE (SDI) "CODE OF STANDARD PRACTICE," SDI COSP17
2. SDI "STANDARD FOR STEEL ROOF DECK," SDI RD-2017
3. SDI "STANDARD FOR COMPOSITE STEEL FLOOR DECK," SDI C-2017

GENERAL:
1. ALL STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN CONFORMANCE WITH SDI SPECIFICATIONS.

STEEL ROOF DECK: ASTM A1008
1. FORM DECK UNITS TO EXTEND CONTINUOUSLY FOR 3 OR MORE SPANS.
2. MINIMUM ATTACHMENTS OF STEEL ROOF DECK:
   A. STRUCTURAL STEEL SUPPORTS: 5/8" DIAMETER FUSION WELDS OR ELONGATED WELDS OF EQUAL PERIMETER, SPACED NOT MORE THAN 8" O.C. AT EVERY SUPPORT
   B. SIDELAP FASTENERS: NOT LESS THAN #10 SELF-TAPPING SCREWS (TEKS) AT MID-SPAN OF DECK BETWEEN SUPPORTS FOR ANY CENTER-TO-CENTER SPANS EXCEEDING 5 FEET. DO NOT WELD SIDELAP ATTACHMENTS.
   C. PROVIDE CLOSER SPACINGS OF DECK ATTACHMENTS WHERE INDICATED ON THE DRAWINGS.
   D. TYPE AND SPACING OF ATTACHMENTS INCLUDE FREE EDGES PARALLEL TO RIBS. ALL FREE EDGES SHALL BE CONNECTED TO STRUCTURAL STEEL.
3. FINISH OF STEEL ROOF DECK: GALVANIZED G60 COATING
4. DO NOT HANG PIPES OR DUCTS FROM STEEL ROOF DECK.

COMPOSITE STEEL FLOOR DECK: ASTM A1008
1. COMPOSITE STEEL DECK REQUIRES NO TEMPORARY SHORING TO SUPPORT CONSTRUCTION LOADS.
2. FASTEN COMPOSITE STEEL DECK UNITS TO SUPPORTING STEEL MEMBERS WITH 5/8" DIAMETER MIN. PUDDLE WELDS AT AN AVERAGE OF 12" O.C., NOT TO EXCEED 18" BETWEEN ANY TWO ATTACHMENTS.
3. FOR DECK UNITS WITH SPANS EXCEEDING 5'-0", FASTEN SIDELAPS AND PERIMETER EDGES AT 36" O.C. MAXIMUM, USING #10 SELF-DRILLING SCREWS, PUDDLE WELDS WITH 5/8" MIN. DIAMETER, OR 1" LONG FILLET WELDS. DO NOT BUTTON-PUNCH REQUIRED SIDELAP ATTACHMENTS.
4. FASTEN POUR STOPS AND GIRDER FILLER TO SUPPORTING STRUCTURE IN ACCORDANCE WITH SDI STANDARD PRACTICE DETAILS.
5. FASTEN COLUMN CLOSURES, CELL CLOSURES AND Z CLOSURES TO DECK AT OPEN ENDS OF RIBS AND SIDES OF DECK. FASTEN CELL CLOSURES AT CHANGES OF DIRECTION OF FLOOR DECK UNITS.

SHOP DRAWINGS:
1. SUBMIT DRAWINGS INDICATING DECK TYPE, LAYOUT, ATTACHMENT AND DETAILS OF EACH TYPE OF STEEL DECKING. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.

COLD-FORMED STEEL FRAMING

DESIGN RESPONSIBILITY:
1. AN ENGINEER FOR THE COLD-FORMED STEEL FRAMING SUPPLIER, LICENSED IN THE STATE OF NORTH CAROLINA SHALL DESIGN COLD-FORMED MEMBERS AND CONNECTIONS FOR ALL CFS EXTERIOR WALL FRAMING, PLATFORM FLOOR FRAMING AND CEILING FRAMING. THE DESIGN SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AND THE CONSTRUCTION DOCUMENTS.
2. DESIGN OF COLD-FORMED WALL FRAMING SHALL INCLUDE GRAVITY LOAD, WIND AND SEISMIC LOADS CONSISTENT WITH THE STRUCTURAL DESIGN CRITERIA SPECIFIED IN THESE GENERAL NOTES.
3. MAXIMUM SERVICE WIND LOAD DEFLECTION FOR COLD-FORMED STUD BACKUP FOR MASONRY VENEER SHALL BE VERTICAL SPAN DIVIDED BY 600. OTHER WALL FRAMING, SOFFIT, FLOOR AND CEILING FRAMING SHALL HAVE A MAXIMUM TOTAL LOAD DEFLECTION OF SPAN DIVIDED BY 360.
4. ISOLATION OF COLD-FORMED FRAMING FROM THE BUILDING SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND STRUCTURAL DETAILS. DETAILS OF SUCH CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

DESIGN STANDARDS:
1. AMERICAN IRON AND STEEL INSTITUTE (AISI) D100-17, "COLD-FORMED STEEL DESIGN MANUAL" 2017 EDITION
2. AISI S100-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," 2016 EDITION
3. AISI S240-20 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING," 2020 EDITION
4. STEEL STUD MANUFACTURERS ASSOCIATION (SSMA), "PRODUCT TECHNICAL GUIDE," ICC-ESR #3064P, EFFECTIVE AUGUST 14, 2015

STEEL GRADE: ASTM A1003, TYPE H
1. STRUCTURAL GRADE 230 (GRADE 33) FOR 33 MIL AND 43 MIL MEMBERS
2. STRUCTURAL GRADE 340 (GRADE 50) FOR ALL MEMBERS WITH THICKNESS EXCEEDING 43 MILS

YIELD STRENGTH (Fy), MINIMUM:
1. GRADE 33 - 33 KSI
2. GRADE 50 - 50 KSI

TENSILE STRENGTH (Fu), MINIMUM:
1. GRADE 33 - 45 KSI
2. GRADE 50 - 65 KSI

THICKNESS:
1. ALL COLD-FORMED FRAMING AT EXTERIOR WALLS AND PARAPETS SHALL BE 43 MILS THICKNESS (18 GA.) MIN., UNLESS NOTED OTHERWISE, AND 16" O.C. MAXIMUM.

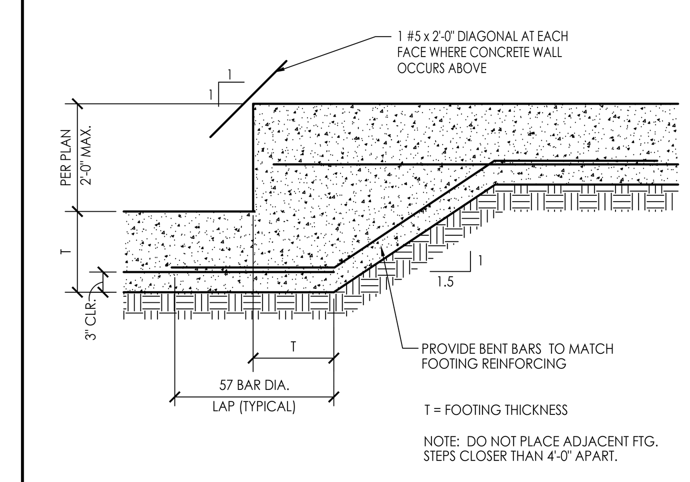
PROTECTIVE COATING: ASTM C955, G60 ZINC

FRAMING REQUIREMENTS:
1. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT TIGHT AGAINST ABUTTING MEMBERS.
2. SPLICES IN STUDS, RAFTERS AND JOISTS ARE NOT PERMITTED.
3. AXIALLY LOADED STUDS:
   A. ENDS OF STUDS AT TOP AND BOTTOM, SHALL BE POSITIONED TIGHT AGAINST THE INSIDE OF RUNNER WEBS PRIOR TO FASTENING.
   B. COMPLETE, UNIFORM AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM RUNNER.
   C. AT RUNNER SPLICES WHERE SUPPORT IS NOT COMMON TO BOTH RUNNERS, USE A STUD SECTION INSERTED IN THE RUNNER AS A SPLICING MEMBER ATTACHED PER MANUFACTURER'S RECOMMENDATIONS.
   D. AXIALLY LOADED STUD BRIDGING:
      1. PROVIDE WEAK-AXIS HOIZONTAL BRIDGING AT 48" MAXIMUM VERTICAL SPACING AT BOTH STUD FLANGES.
      2. USE 1 1/2" WIDE X 33 MIL STRAPS, WITH RUNNER TYPE SOLID BRIDGING AT EACH END OF WALL, ADJACENT TO WALL OPENINGS AND AT 8'-0" O.C. MAXIMUM.
         a. ALTERNATIVELY, USE SUPPLIERS STANDARD THRU-HOLE BRIDGING SYSTEM CONNECTED TO EACH STUD WITH LATERAL AND TWIST-RESISTANT STEEL CLIPS.
      3. HORIZONTAL BRIDGING SHALL BE INSTALLED IMMEDIATELY AFTER THE STUDS ARE ERECTED.
4. BRIDGING OF PLATFORM AND CEILING JOISTS:
   A. PROVIDE BRIDGING CONSISTING OF 1 1/2" WIDE X 33 MIL STRAPS AT MID-SPAN FOR SPANS BETWEEN 8'-0" AND 16'-0" AND AT 8'-0" O.C. MAXIMUM FOR SPANS EXCEEDING 16'-0".
   B. BRIDGING SHALL HAVE SOLID BLOCKING CONSISTING OF A CUT-TO-LENGTH RUNNER TYPE CLOSURE OR JOIST SECTION PLACED BETWEEN OUTER JOISTS, OVER ALL INTERIOR SUPPORTS, ADJACENT TO OPENINGS AND AT 8'-0" O.C. MAXIMUM.
   C. SOLID BLOCKING BETWEEN EA. MEMBER MAY BE USED IN LIEU OF STRAPS AND INTERMITTENT BLOCKING.
5. SCREWED CONNECTIONS:
   A. SCREWS SHALL BE NO. 12-14 CORROSION-RESISTANT OR EQUIVALENT FOR ALL FRAMING MEMBERS PER MANUFACTURER'S RECOMMENDATIONS.
   B. A MINIMUM OF THREE (3) EXPOSED THREADS SHALL PENETRATE THROUGH ALL JOINED MATERIALS.
   C. CORROSION-RESISTANT CADMIUM PLATED SCREWS SHALL BE USED FOR ATTACHING METAL LATH, MASONRY TIES AND OTHER EXTERIOR MATERIALS.
6. WELDED CONNECTIONS ARE NOT PERMITTED.
7. CUTTING OF STEEL FRAMING MEMBERS MAY BE DONE WITH A SAW OR CUTTING SHEARS. TORCH CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
8. TOLERANCES:
   A. SPACING OF STUDS SHALL HAVE A TOLERANCE OF 1/8" FROM THAT SHOWN ON THE DRAWINGS, PROVIDING THAT THE CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENT OF OTHER MATERIALS OR CONSTRUCTION.
   B. ALIGNMENT OF STUDS (PLUMBNESS) AND WALLS (STRAIGHTNESS) SHALL BE WITH 1/960TH OF THEIR RESPECTIVE HEIGHTS AND LENGTHS.
9. WHERE MANUFACTURER'S RECOMMENDATIONS FOR ERECTION, ATTACHMENT, ASSEMBLY, BRACING, ALIGNMENT OR OTHER INSTALLATION OR ASSEMBLY REQUIREMENTS ARE MORE STRINGENT THAN INDICATED IN THESE DRAWINGS OR THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS SHALL APPLY.

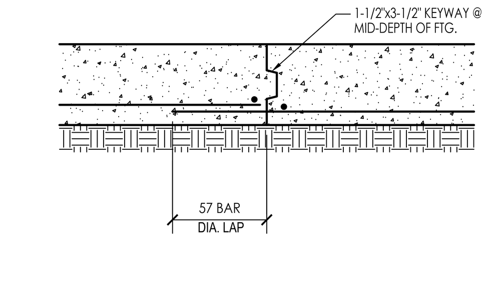
SHOP DRAWINGS:
1. SUBMIT MANUFACTURER'S DESIGN DRAWINGS TO ARCHITECT FOR REVIEW, INDICATING MEMBER TYPES AND SIZES, MATERIAL/MEMBER PROPERTIES AND CONNECTION DETAILS FOR ALL COLD-FORMED STEEL FRAMING INDICATED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL REVIEW AND APPLY APPROVAL STAMP TO SHOP DRAWINGS PRIOR TO SUBMISSION.

ABBREVIATIONS

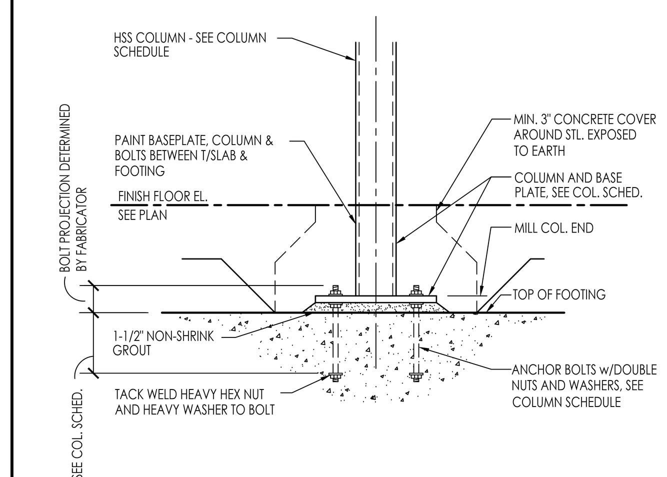
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADJ	ADJACENT	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIPS = 1000 POUNDS
ALT	ALTERNATE	K-FT	KIP-FEET (MOMENT VALUE)
ARCH	ARCHITECT	KSI	KIPS PER SQUARE INCH
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LLV	LONG LEG VERTICAL
BM	BEAM	LW	LONG WAY
BRG	BEARING	MAX	MAXIMUM
C.J.	CONST./CONTROL JOINT	MECH	MECHANICAL
CFS	COLD-FORMED STEEL	MANUF	MANUFACTURER
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
CP	COMPLETE PENETRATION	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	O.C.	ON CENTER
CONST	CONSTRUCTION	OF	OUTSIDE FACE
CONT	CONTINUOUS	OH	OPPOSITE HAND
DBL	DOUBLE	OPNG	OPENING
DEG	DEGREE	PAF	POWDER ACTUATED FASTENERS
DET, DTL	DETAIL	PC	PRECAST
DIA	DIAMETER	PL	PLATE
DN	DOWN	PLF	POUNDS PER LINEAR FOOT
DWGS	DRAWINGS	R	RADIUS
DWL	DOWEL	REINF	REINFORCEMENT
EA	EACH	REQD	REQUIRED
EE	EXTENDED END	REV	REVISION
EJ	EXPANSION JOINT	SC	SLIP CRITICAL
EL, ELEV	ELEVATION	SCHED	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQUIP	EQUIPMENT	SHT	SHEET
EW	EACH WAY	SIM	SIMILAR
EXP	EXPANSION	SPCG	SPACING
FLR	FLOOR	STL	STEEL
FD	FLOOR DRAIN	SW	SHORT WAY
FTG	FOOTING	T&B	TOP AND BOTTOM
GA	GAUGE	T/XX	TOP OF XX
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION	VERT	VERTICAL
IF	INSIDE FACE	WP	WORK POINT
INT	INTERIOR	WWF	WELDED WIRE FABRIC



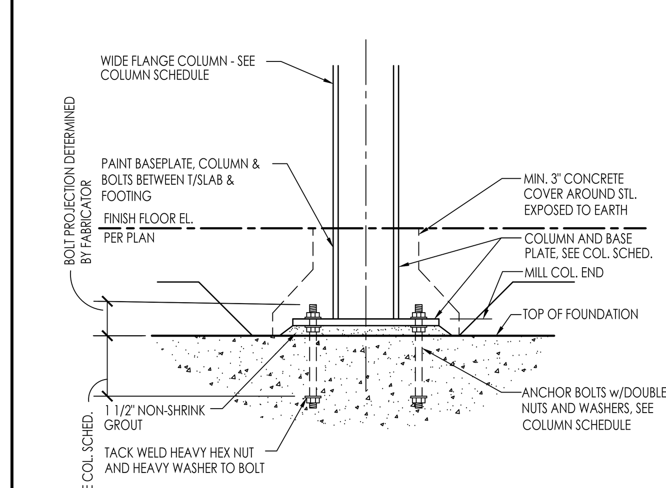
TYPICAL STEPPED FOOTING (J1)
S101 3/4"=1'-0"



TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL (G1)
S101 3/4"=1'-0"

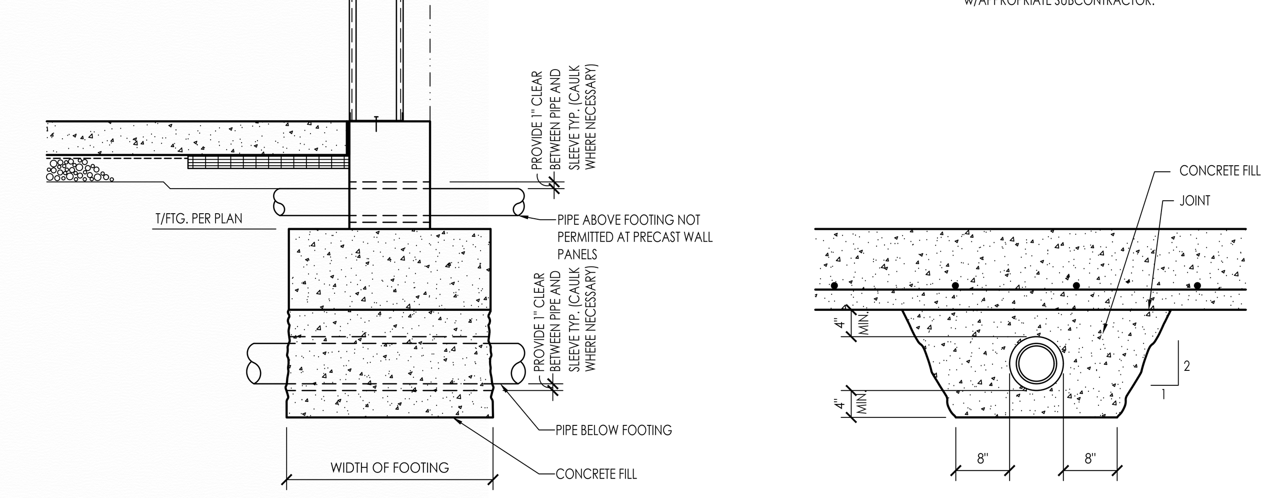


TYPICAL COLUMN BASE (E1)
S101 HSS COLUMNS



TYPICAL COLUMN BASE (C1)
S101 WIDE FLANGE COLUMNS

NOTE: CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND PIPING, CONDUIT, ETC. w/APPROPRIATE SUBCONTRACTOR.



UNDERGROUND PIPE AT FOUNDATION DETAIL (A1)
S101 3/4"=1'-0"

CJMW
ARCHITECTURE
119 Brookstown Ave, Suite 100
Winston-Salem, NC 27101
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www.cjmw.com

99% CONSTRUCTION DOCUMENTS
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#	Description	Date

Museum of the MARINE
Community•Corps•Carolinas
Museum of the Marine

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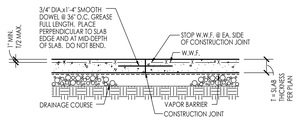
GENERAL NOTES AND TYPICAL DETAILS

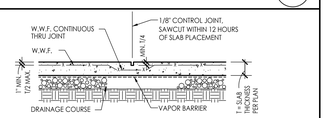
S1.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA



TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT (K11)

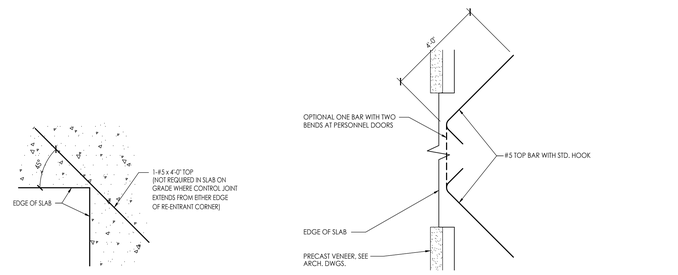
S102 — 3/4"=1'-0"



DO NOT CUT CONTROL JOINTS IN 8" GALLERY SLAB, NOR ELEVATED SLABS ON STEEL DECK UNLESS NOTED ON PLAN.

TYPICAL SLAB-ON-GRADE CONTROL JOINT (C.J.) (J11)

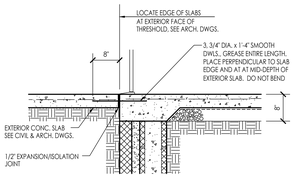
S102 — AT INTERIOR SLABS



RE-ENTRANT CORNER SLAB REINFORCING AT DOORS

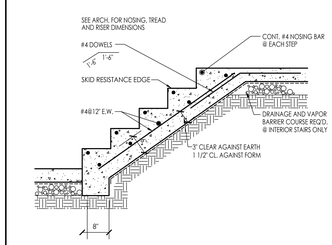
TYP. REINFORCING AT RE-ENTRANT CORNERS IN SLAB-ON-GRADE (J7)

S102



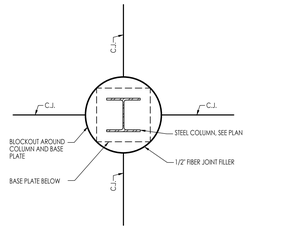
TYP. SLAB AT THRESHOLD (J5)

S102



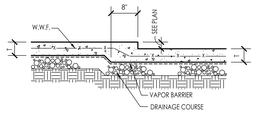
TYP. CONCRETE STAIR-ON-GRADE (J3)

S102



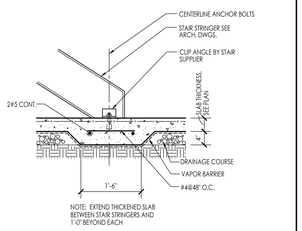
TYP. COLUMN ISOLATION JOINT (J1)

S102



TYPICAL RECESS IN SLAB-ON-GRADE (G11)

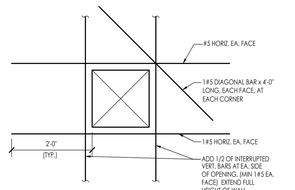
S102



NOTE: EXTEND THICKENED SLAB BETWEEN STAIR STRINGERS AND 1'-0" BEYOND EACH

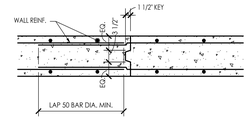
TYPICAL THICKENED SLAB-ON-GRADE AT BASE OF STEEL STAIR STRINGER (G9)

S102



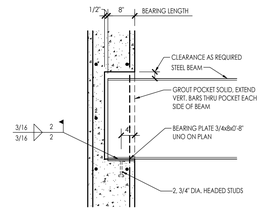
TYPICAL REINFORCING AT OPENINGS IN CAST-IN-PLACE CONCRETE WALLS (G7)

S102



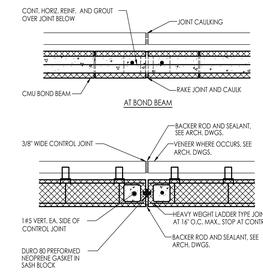
TYP. CONSTRUCTION JOINT AT CONCRETE WALLS (G5)

S102



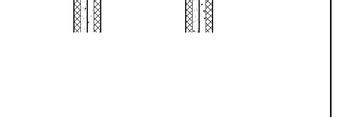
TYP. BEAM POCKET DETAIL (G3)

S102 — AT CONCRETE WALL



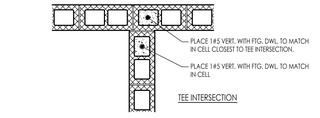
TYPICAL MASONRY WALL CONTROL JOINT (C.J.) (G1)

S102 — AT NON-CURVED MASONRY WALL



TYP. CORNER REINFORCING AT MASONRY BOND BEAMS (E11)

S102

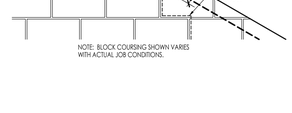


TYPICAL MASONRY REINFORCEMENT AT DISCONTINUITIES (E9)

S102

TYPICAL CONTROL JOINT AT MASONRY PARTITION/CONCRETE WALL INTERSECTIONS (E7)

S102

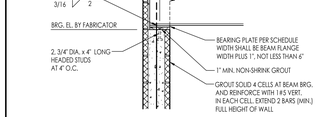


TYPICAL STEPPED BOND BEAM (E5)

S102

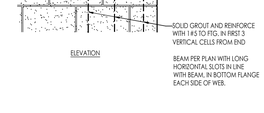
BEARING PLATE SCHEDULE		
WALL TYPE	BRG. PLATE SIZE	L
8" NOM.	1/2x6	6"
12" NOM.	3/4x8	8"

BRG. PLATES SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE ON PLAN WHERE THEY OCCUR.



TYPICAL BEAM POCKET DETAIL IN CMU WALLS (E3)

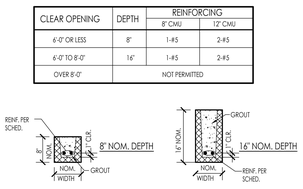
S102 — AT CONCRETE WALL



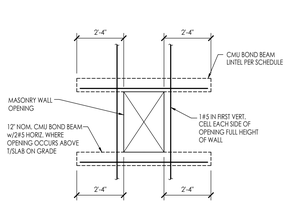
BEAM BEARING AT END OF CMU WALL (E1)

S102

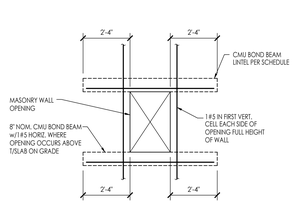
CLEAR OPENING	DEPTH	REINFORCING	
		8" CMU	12" CMU
6'-0" OR LESS	8"	1-#5	2-#5
6'-0" TO 8'-0"	16"	1-#5	2-#5
OVER 8'-0"	NOT PERMITTED		



NOTES:
1. THIS DETAIL APPLIES TO ALL MASONRY WALL OPENINGS 12 FEET WIDE OR LESS, UNLESS OTHERWISE SHOWN ON PLAN TO HAVE A STEEL LINTEL.



WALL ELEVATION AT 12" CMU WALL

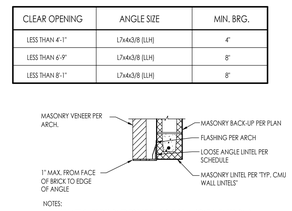


WALL ELEVATION AT 8" CMU WALL

TYPICAL CMU WALL LINTELS (C7)

S102

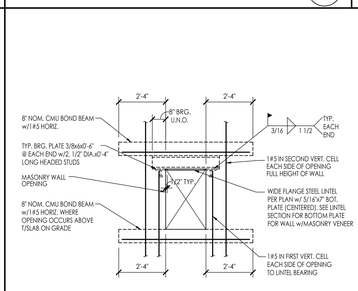
CLEAR OPENING	ANGLE SIZE	MIN. BRG.
LESS THAN 4'-1"	L7x4x5/8 (LLH)	4"
LESS THAN 6'-9"	L7x4x5/8 (LLH)	8"
LESS THAN 8'-1"	L7x4x5/8 (LLH)	8"



NOTES:
1. THESE LINTELS ARE DESIGNED FOR SELF-WEIGHT OF MASONRY VENEER ONLY.
2. STEEL ANGLE LINTELS SHALL BE GALVANIZED AND PAINTED.

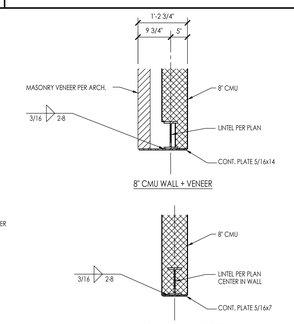
TYPICAL LOOSE ANGLE LINTELS FOR MASONRY VENEER (C5)

S102



TYPICAL STEEL LINTEL DETAILS (C1)

S102 — 8" CMU WALL



TYPICAL STEEL LINTEL DETAILS (A9)

S102 — 12" CMU WALL

NOTES:
1. THIS DETAIL APPLIES TO WIDE FLANGE BEAM TO WIDE FLANGE GIRDER CONNECTIONS ONLY.
2. ALL BOLTS SHALL BE 3/4" DIA., A325N IN EITHER STANDARD (STD) OR HORIZONTAL SHORT SLOTTED (SSLT) HOLES. DO NOT TORQUE.
3. WELDS SHALL BE MADE WITH E70xx ELECTRODES.
4. FOR EACH SPECIFIED BEAM END REACTION, PROVIDE NUMBER OF BOLTS PER AISC TABLE 10-10a "SINGLE-PLATE CONNECTIONS." ONLY ONE ROW OF BOLTS IS PERMITTED.
5. SHEAR PLATE SHALL BE ASTM A36.
6. ERECTOR SHALL ONLY INSTALL CONNECTIONS DETAILED ON SHOP DRAWINGS AND ERECTION DRAWINGS REVIEWED BY THE OFFICE OF THE STRUCTURAL ENGINEER OF RECORD AND INDICATED FOR FIELD USE BY THE FABRICATOR.
7. ERECTOR SHALL NOT FIELD WELD ANY CONNECTIONS DETAILED BY THE FABRICATOR TO BE FIELD BOLTED.

TYPICAL WIDE FLANGE BEAM TO GIRDER CONNECTION (A7)

S102

n = NUMBER OF BOLTS SELECTED BY FABRICATOR PER AISC TABLE 10-1 TO SUPPORT SPECIFIED BEAM REACTION

NOTES:
1. THIS DETAIL APPLIES TO WIDE FLANGE BEAM TO WIDE FLANGE COLUMN WEB OR FLANGE CONNECTIONS ONLY.
2. ALL BOLTS SHALL BE 3/4" DIA., A325N IN STANDARD HOLES.
3. WELDS SHALL BE MADE WITH E70xx ELECTRODES.
4. FOR EACH SPECIFIED BEAM END REACTION, PROVIDE NUMBER OF BOLTS TO COLUMN PER AISC TABLE 10-1 AND WELDING OF EACH ANGLE TO BEAM WEB PER AISC TABLE 10-2.
5. AT CONNECTIONS BOTH SIDES OF COLUMN WEB, BOLT SHEAR STRENGTH SHALL NOT EXCEED BOLT BEARING STRENGTH IN DOUBLE SHEAR ON WEB PER AISC TABLE 7-5.
6. THICKNESS OF CONNECTION ANGLES SHALL BE SELECTED BY THE FABRICATOR PER AISC TABLE 10-1 TO SUPPORT EACH SPECIFIED BEAM END REACTION. ANGLE THICKNESS SHALL BE NOT LESS THAN 1/16" + WELD A NOR AISC MIN. WELD.
7. ERECTOR SHALL ONLY INSTALL CONNECTIONS DETAILED ON SHOP DRAWINGS AND ERECTION DRAWINGS REVIEWED BY THE OFFICE OF THE STRUCTURAL ENGINEER OF RECORD AND INDICATED FOR FIELD USE BY THE FABRICATOR.
8. ERECTOR SHALL NOT FIELD WELD ANY CONNECTIONS DETAILED BY THE FABRICATOR TO BE FIELD BOLTED.

TYPICAL WIDE FLANGE BEAM TO WIDE FLANGE COLUMN CONNECTION (A5)

S102

NOTES:
1. THIS DETAIL APPLIES TO WIDE FLANGE BEAM TO HSS COLUMN CONNECTIONS ONLY.
2. ALL BOLTS SHALL BE 3/4" DIA., A325N IN EITHER STANDARD (STD) OR HORIZONTAL SHORT SLOTTED (SSLT) HOLES. DO NOT TORQUE.
3. WELDS SHALL BE MADE WITH E70xx ELECTRODES.
4. FOR EACH SPECIFIED BEAM END REACTION, PROVIDE NUMBER OF BOLTS PER AISC TABLE 10-10a "SINGLE-PLATE CONNECTIONS." ONLY ONE ROW OF BOLTS IS PERMITTED.
5. SHEAR PLATE SHALL BE ASTM A36.
6. ERECTOR SHALL ONLY INSTALL CONNECTIONS DETAILED ON SHOP DRAWINGS AND ERECTION DRAWINGS REVIEWED BY THE OFFICE OF THE STRUCTURAL ENGINEER OF RECORD AND INDICATED FOR FIELD USE BY THE FABRICATOR.
7. ERECTOR SHALL NOT FIELD WELD ANY CONNECTIONS DETAILED BY THE FABRICATOR TO BE FIELD BOLTED.

TYP. BEAM-TO-COLUMN CONNECTION (A3)

S102 — AT HSS COLUMNS

TYP. BEAM-TO-COLUMN CONNECTION (A1)

S102 — BEAM BEARING ON TUBE OR PIPE COLUMN

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#	Description	Date

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Museum of the Marine

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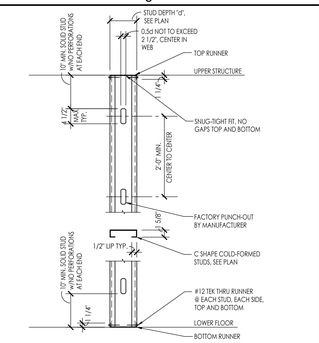
TYPICAL DETAILS

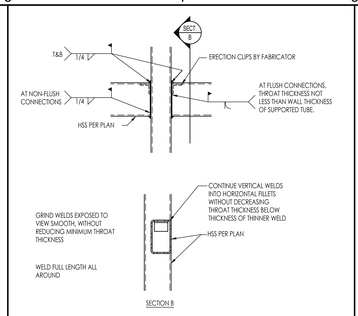
S1.02

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA



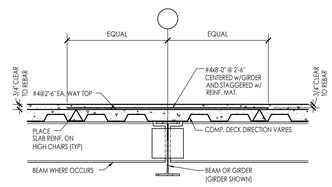
TYP. LOAD BEARING STUD PROFILE J5

S103



TYPICAL RECTANGULAR HSS-TO-HSS CONNECTION J3

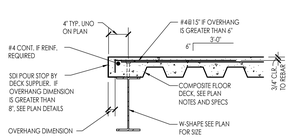
S103



FOR BEAMS AND GIRDERS ALONG INTERIOR COLUMN LINES (BOTH DIRECTIONS).

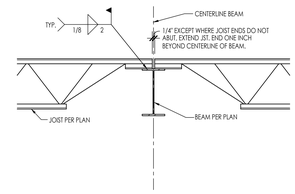
TYPICAL COMPOSITE SLAB REINF. J1

S103



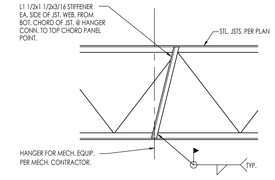
TYPICAL INTERIOR EDGE OF FRAMED FLOOR SLAB G5

S103



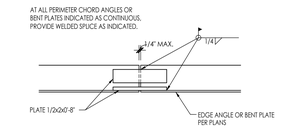
TYP. JOIST BEARING DETAIL G3

S103 AT BEAMS



TYPICAL SUSPENDED MECHANICAL UNIT SUPPORT G1

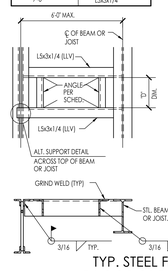
S103



TYPICAL ROOF ANGLE SPLICE E5

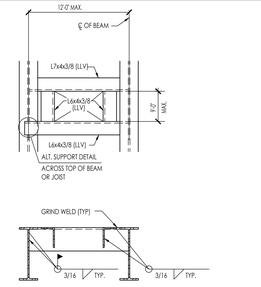
S103 AT ALL CONTINUOUS EDGE ANGLES

MAX. "D" DIM.	MEMBER (LLV)
5'-0"	L3x3x1/4
7'-0"	L4x3x1/4
9'-0"	L5x3x1/4



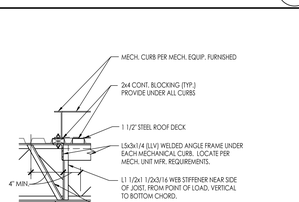
TYP. STEEL FRAME AT ROOF OPENINGS E3

S103 1 1/2" STEEL ROOF DECK



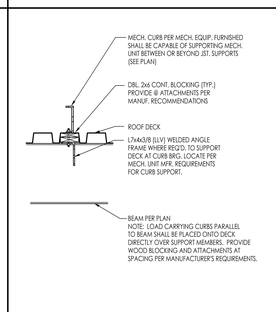
TYP. STEEL FRAME AT ROOF OPENINGS E1

S103 3" STEEL ROOF DECK



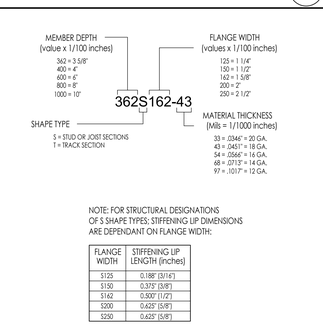
SUPPORT DETAIL AT ROOF EQUIPMENT CURB C5

S103 (1 1/2" STEEL ROOF DECK)



SUPPORT DETAIL AT ROOF EQUIPMENT CURB C3

S103 (3" STEEL ROOF DECK)

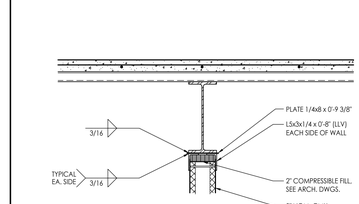


NOTE: FOR STRUCTURAL DESIGNATIONS OF S SHAPE TYPES; STIFFENING LIP DIMENSIONS ARE DEPENDANT ON FLANGE WIDTH;

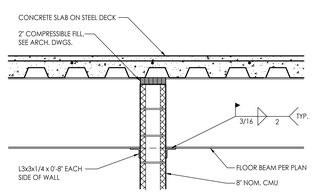
FLANGE WIDTH	STIFFENING LIP LENGTH (inches)
S125	0.188" (3/16")
S150	0.375" (3/8")
S162	0.500" (1/2")
S200	0.625" (5/8")
S250	0.625" (5/8")

SSMA PRODUCT IDENTIFICATION STANDARD C1

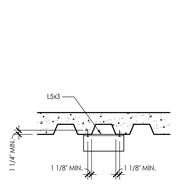
S103 FOR COLD-FORMED STEEL SHAPES



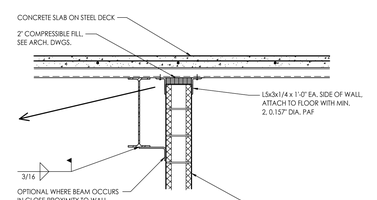
WALL ALIGNED UNDER BEAM



DECK RIBS PARALLEL TO WALL



NOTE:
THESE DETAILS ARE FOR BRACING 8" NOM. CMU PARTITIONS WHERE THE LENGTH OF WALL BETWEEN 2 CORNERS EXCEEDS 24'-0" AND ALSO WITHIN 2'-0" OF END OF WALL OR CONTROL JOINT LOCATIONS



DECK RIBS PERPENDICULAR TO WALL

TYPICAL LATERAL SUPPORT AT MASONRY PARTITIONS A1

S103

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#	Description	Date

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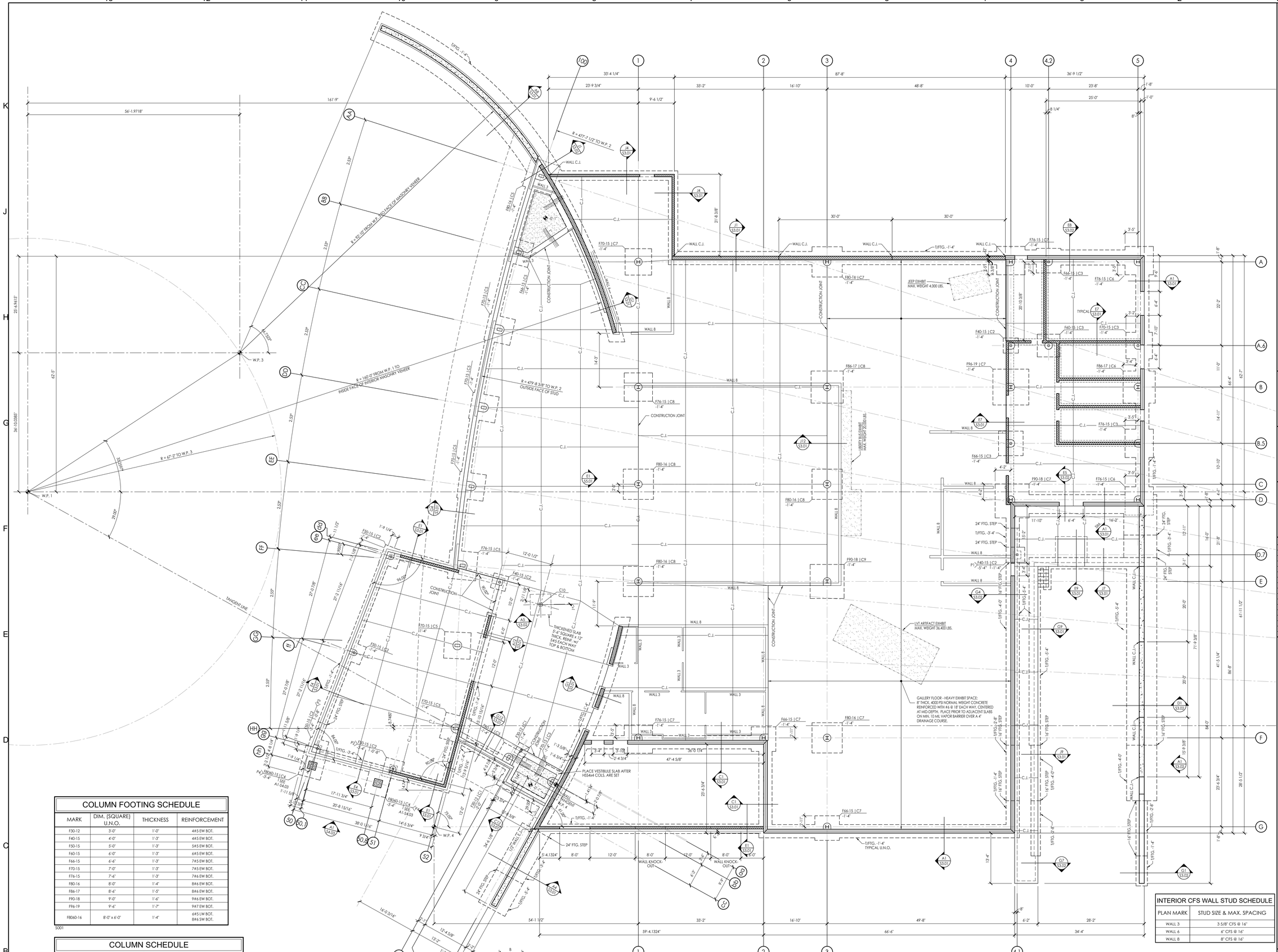
TYPICAL DETAILS

S1.03

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA



COLUMN FOOTING SCHEDULE

MARK	DIM. (SQUARE) U.N.O.	THICKNESS	REINFORCEMENT
F30-12	3'-0"	1'-0"	4#5 EW BOT.
F40-15	4'-0"	1'-3"	4#5 EW BOT.
F50-15	5'-0"	1'-3"	5#5 EW BOT.
F60-15	6'-0"	1'-3"	6#5 EW BOT.
F66-15	6'-6"	1'-3"	7#5 EW BOT.
F70-15	7'-0"	1'-3"	7#5 EW BOT.
F76-15	7'-6"	1'-3"	7#6 EW BOT.
F80-16	8'-0"	1'-4"	8#6 EW BOT.
F86-17	8'-6"	1'-5"	8#6 EW BOT.
F90-18	9'-0"	1'-6"	9#6 EW BOT.
F96-19	9'-6"	1'-7"	9#7 EW BOT.
F8060-16	8'-0" x 6'-0"	1'-4"	6#5 LW BOT. 8#6 SW BOT.

S001

COLUMN SCHEDULE

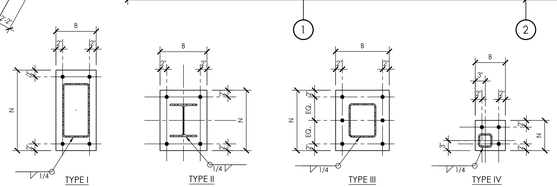
MARK	SIZE	BASEPLATE TYPE	BASEPLATE (thk.xBxN)	ANCHOR BOLTS (Dia. x Min. Embedment)
C1	HSS4x4x1/4	IV	3/4x9x9-9"	3 - 3/4" x 0'-9"
C2	HSS6x6x1/4	I	3/4x14x14-1'-2	4 - 3/4" x 1'-0"
C3	HSS6x6x3/8	I	1x14x14-1'-2	4 - 1" x 1'-0"
C4	HSS10x8x1/2	III	1 1/4x16x14-1'-6"	6 - 1 1/4" x 1'-3"
C5	HSS16x8x5/8	I	1 1/4x12x2'-0"	4 - 1 1/4" x 1'-3"
C6	W10x33	II	1x12x1'-6	4 - 1" x 1'-0"
C7	W10x49	II	1x14x1'-6	4 - 1" x 1'-0"
C8	W10x54	II	1x14x1'-6	4 - 1" x 1'-3"
C9	W10x60	II	1 1/4x14x1'-6	4 - 1" x 1'-3"
C10	HSS10x10x1/4	I	3/4x16x1'-8"	4, 3/4" DIA. WEDGE ANCHORS WITH MIN. 4 1/2" EMBEDMENT

S003

FOOTING TYPE. SEE COLUMN FOOTING SCHEDULE. THIS SHEET.
COLUMN TYPE. SEE COLUMN SCHEDULE. THIS SHEET.
FX | CX
X'-X" x X'-X"
COLUMN PIER TYPE. SEE DETAILS, SHT. S3.02 (WHERE OCCURS)
TOP OF PIER ELEVATION (WHERE OCCURS)
TOP OF FOOTING ELEVATION

COLUMN FOOTING KEY

S002



COLUMN BASE PLATE DETAILS

S004 3/4"=1'-0"

HOLD FOUNDATIONS PENDING FINAL SITE GRADING PLANS.

INTERIOR CFS WALL STUD SCHEDULE

PLAN MARK	STUD SIZE & MAX. SPACING
WALL 3	3 5/8" CFS @ 16"
WALL 6	6" CFS @ 16"
WALL 8	8" CFS @ 16"

FOUNDATION PLAN

1/8"=1'-0"

S201

PLAN NOTES:

1. TYPICAL DATUM TOP OF SLAB ELEVATION = 0'-0". ALL OTHER ELEVATIONS ARE REFERENCED + OR - FROM DATUM.
2. TYPICAL SLAB ON GRADE IS 5" THICK, 4000 PSI NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W2.1xW2.1 (IN FLAT SHEETS) ON MIN. 10 MIL VAPOR BARRIER OVER A 4" DEEP DRAINAGE COURSE OF CLEAN, WASHED CRUSHED STONE. SEE PLAN FOR 8" THICK SLAB AT THE GALLERY.
3. TYPICAL TOP OF WALL FOOTING ELEVATION = -1'-4". CONTRACTOR COORDINATE AND CONFIRM ALL TOP OF FOOTING ELEVATIONS WITH FINAL GRADING PLANS AND PROVIDE FOOTING STEPS IF NECESSARY.
4. COORDINATE WITH OTHER DISCIPLINES AND TRADES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, EQUIPMENT, RECESSES, SLEEVES AND PIPING.
5. SEE S1 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS PERTAINING TO THIS PLAN.

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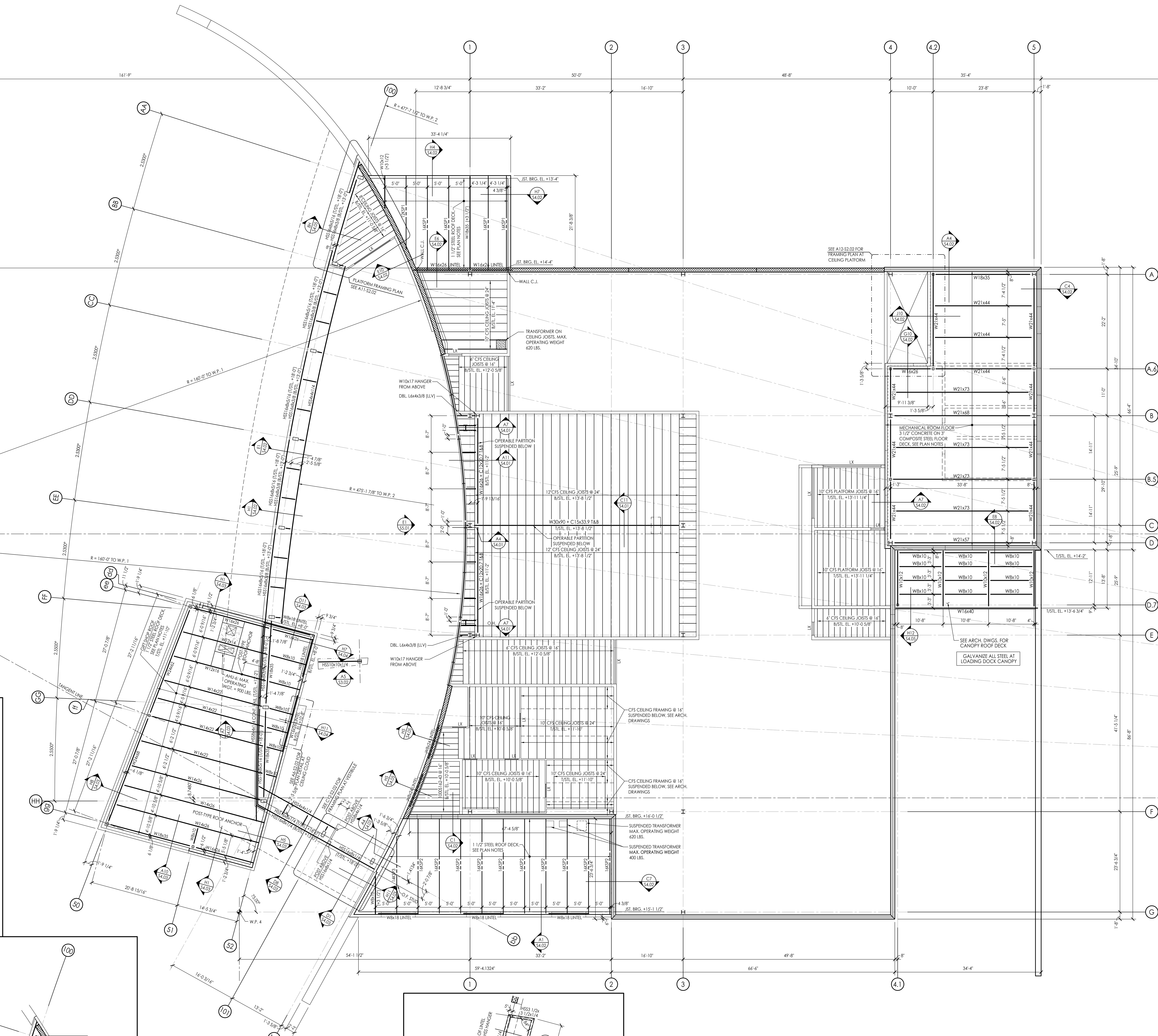
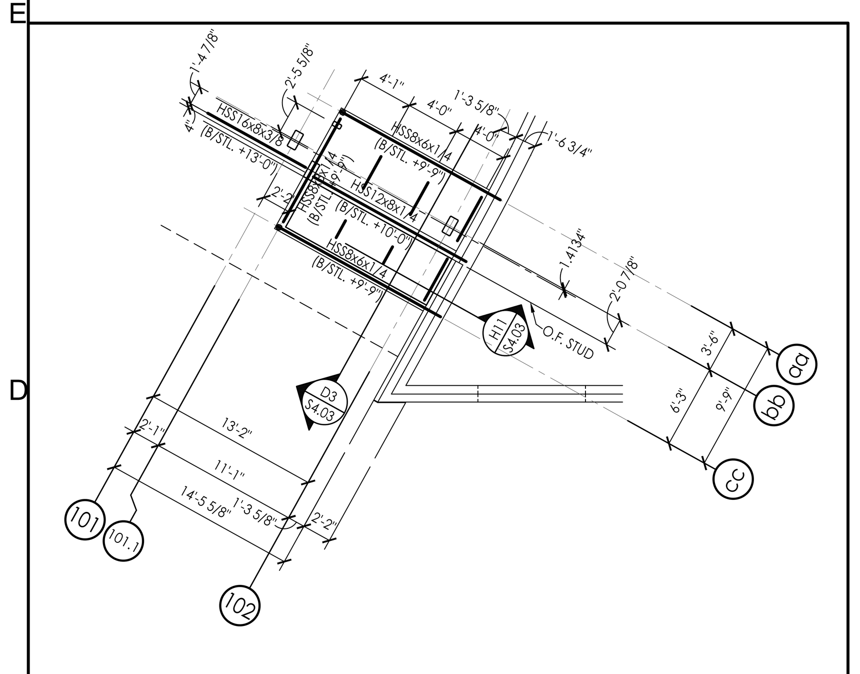
FOUNDATION PLAN

S2.01

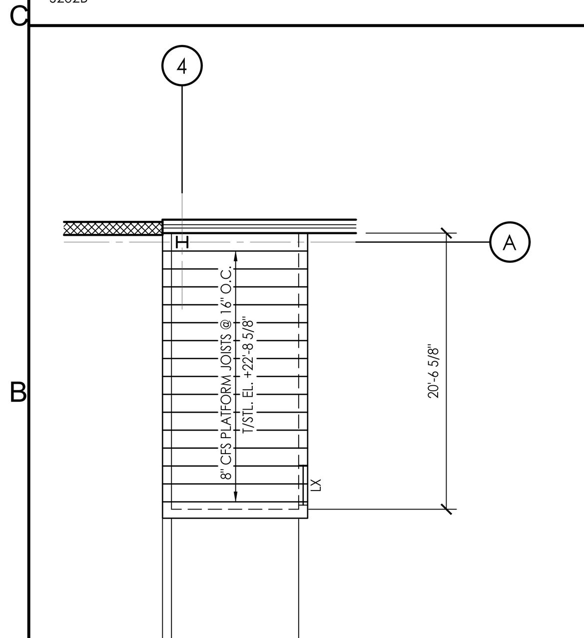
ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA





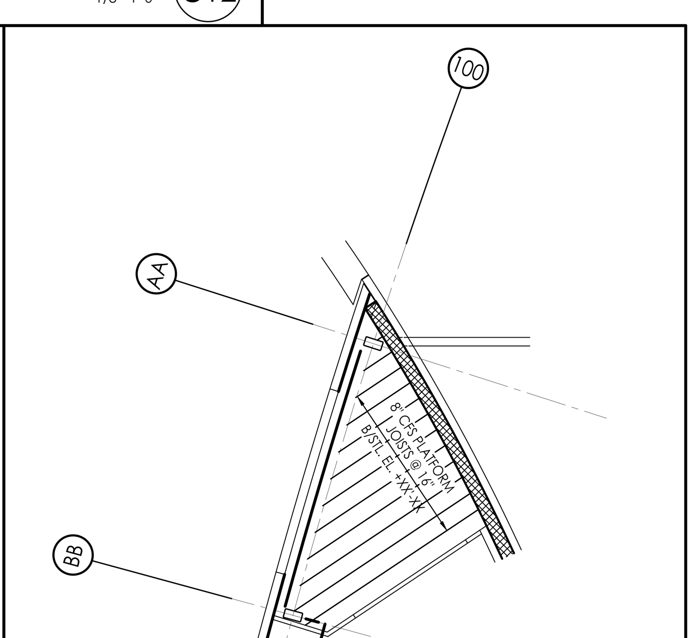
FRAMING PLAN AT VESTIBULE (C12)

S202B 1/8"=1'-0"



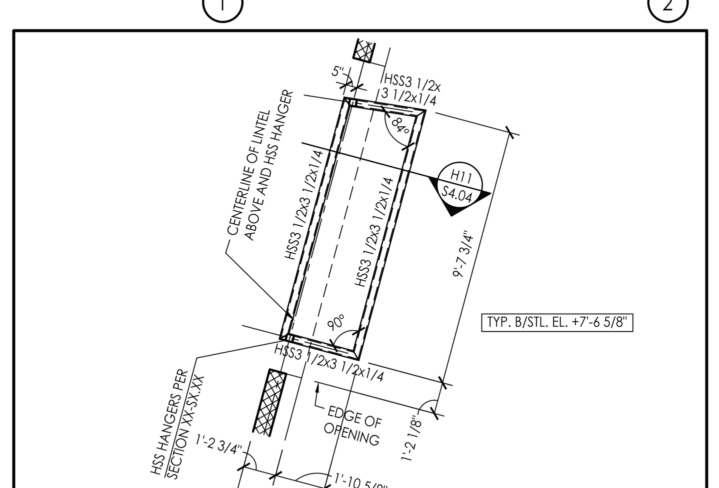
FRAMING PLAN AT CEILING PLATFORM (A12)

S202A 1/8"=1'-0"



FRAMING PLAN AT PLATFORM (A11)

S202C 1/8"=1'-0"



PLAN DETAIL AT CEILING CLOUD (A6)

S202D 1/4"=1'-0"

SECOND FLOOR AND LOW ROOF FRAMING PLAN

S202 1/8"=1'-0"

PLAN NOTES:

1. TOP OF SLAB ELEVATION AT THE MECHANICAL ROOM FLOOR SHALL BE +14'-0" ABOVE FIRST FLOOR DATUM ELEVATION 0'-0".
2. ALL ROOF JOIST BEARING, PLATFORM, CEILING, AND GIFT SHOP STEEL ROOF FRAMING ELEVATIONS ARE REFERENCED TO FIRST FLOOR DATUM ELEVATION 0'-0".
3. MECHANICAL ROOM FLOOR CONSTRUCTION (2ND FLOOR) SHALL BE 3 1/2" THICK, 4000 PSI NORMAL WEIGHT CONCRETE ON 3" DEEP, GALVANIZED COMPOSITE STEEL FLOOR DECK. TOTAL STRUCTURAL SLAB THICKNESS IS 6 1/2". REINFORCE WITH #4 AT 2'-6" EACH WAY TOP ON CHAIRS. SEE PLAN AND SECTIONS FOR ADDITIONAL SLAB REINFORCING.
4. FOR ROOF BEAMS SUPPORTING JOISTS; TYPICAL TOP OF STEEL ELEVATIONS ARE GIVEN AT JOIST BEARING. ADJACENT BEAMS SHOWN (+3 1/2") INDICATE TOP OF STEEL AT TOP OF JOIST (BOTTOM OF DECK).
5. TYPICAL ROOF DECK AT THE GIFT SHOP AND LOW ROOFS IS 1 1/2" DEEP, 22 GA., GALVANIZED, TYPE B STEEL ROOF DECK. FASTEN TO SUPPORTS WITH 5/8" DIAMETER FUSION WELDS IN A 36/7 PATTERN AND AT 8" O.C. AT ALL PERIMETER EDGES. FASTEN SIDE LAPS OF DECK WITH 1#10 SCREW AT MID-SPAN FOR ALL SPANS 5'-0" OR GREATER.
6. COORDINATE WITH OTHER DISCIPLINES AND TRADES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, EQUIPMENT, AND PIPING.
7. MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED THE MAXIMUM OPERATIING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
8. COORDINATE WITH ARCH. DRAWINGS FOR FINAL LAYOUT OF CFS JOIST AND PLATFORM FRAMING.
9. "LX" INDICATES BOX HEADER LINTEL BY CFS SUPPLIER.
10. "16KSPx" INDICATES A SPECIAL LOAD ROOF JOIST. SEE SHT. S2.03 FOR SPECIAL JOIST LOAD DIAGRAMS.
11. SEE S1 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS PERTAINING TO THIS PLAN.

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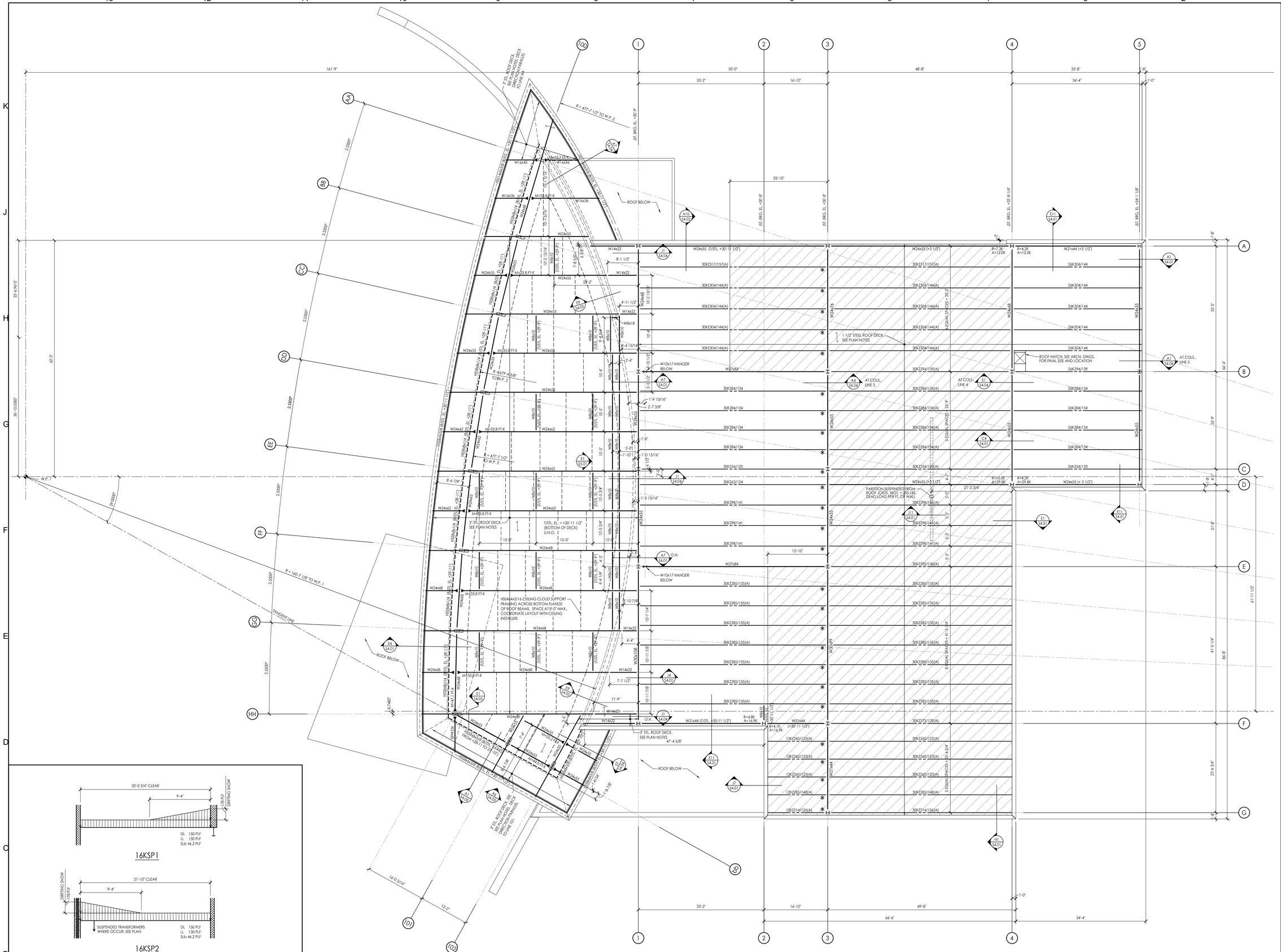
SECOND FLOOR AND LOW ROOF FRAMING PLAN

S2.02

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA



16KSP1

16KSP2

INDICATES UNIFORM OR TAPERED LINEAR LOADS:
DL INDICATES DEAD LOAD
LL INDICATES ROOF LIVE LOAD
SLb INDICATES BALANCED SNOW LOAD

INDICATES A CONCENTRATED SUSPENDED DEAD LOAD AT A FIXED LOCATION. SEE PLAN FOR LOCATIONS AND EXTENT.

1. LOADS GIVEN ARE UNFACTORED ASD SERVICE LOADS.
2. ROOF LIVE AND SNOW LOADS ARE NOT CONCURRENT.
3. SUSPENDED LOADS ARE CONCURRENT WITH BOTH ROOF LIVE AND SNOW LOADS.
4. USE ASCE 7-16 LOAD COMBINATIONS.
5. UNIFORM SNOW LOADS FOR JOISTS WITH DRIFTING SNOW ARE BASED ON BALANCED SNOW LOADS (SLb) OF 9.24 PSF. TO BE USED CONCURRENTLY WITH DRIFTING SNOW. THIS INCLUDES THE 1.1 IMPORTANCE FACTOR AND 1.2 THERMAL COEFFICIENT.
8. SEE SHT. S2.04 FOR WIND UPLIFT PLAN AND SCHEDULE. SUSPENDED DEAD LOADS SHALL NOT BE USED TO RESIST WIND UPLIFT.

SPECIAL JOIST LOAD DIAGRAMS — A11

S205 — NOT TO SCALE

ROOF JOIST DESIGNATIONS

30KZ285/135(A)

- 30 — JOIST DEPTH (INCHES)
- K - SERIES JOIST
- Z — ZONE LOADED JOIST
- 285 — ZONE LOAD DESIGNATION
- 135 — UNIFORM LIVE/SNOW LOAD (ASD), PLF
- (A) — UNIFORM TOTAL LOAD (ASD), PLF

NOTES:

1. UNIFORM LOADS EXTEND FULL LENGTH (SPAN) OF JOIST.
2. ZONE LOAD A: ADD ONE 1000 LBS. CONCENTRATED DEAD LOAD (ASD) TO THE UNIFORM LOAD SUSPENDED FROM THE BOTTOM CHORD OF EACH ROOF JOIST FOR EQUIPMENT OR EXHIBITS. LOCATE AT ANY POINT ALONG EACH SPAN WITHIN THE ZONE.

ROOF FRAMING PLAN

S203 — 1/8"=1'-0"

PLAN NOTES

1. ROOF ELEVATIONS ARE REFERENCED TO FIRST FLOOR DATUM ELEVATION 0'-0".
2. FOR BEAMS SUPPORTING JOISTS: TYPICAL TOP OF STEEL ELEVATIONS ARE GIVEN AT JOIST BEARING, EXCEPT WHEN SHOWN (+2 1/2") OR (+3 1/2") WHICH INDICATES A BEAM WITH TOP OF STEEL AT TOP OF JOIST (BOTTOM OF DECK).
3. FOR ROOF BEAMS OVER THE GREAT HALL: TOP OF STEEL IS REFERENCED TO DATUM ELEVATION 0'-0".
4. STEEL ROOF DECK PLAN LEFT OF GRID LINE 1 SHALL BE 3" DEEP, 22 GA., TYPE N, GALVANIZED STEEL ROOF DECK. STEEL ROOF DECK PLAN RIGHT OF GRID LINE 1 SHALL BE 1 1/2" DEEP, 22 GA., TYPE B, GALVANIZED STEEL ROOF DECK. SEE SHEET S2.04 ROOF DECK PLAN AND FASTENING SCHEDULE.
5. ROOF DECK AND FRAMING PLAN LEFT OF GRID LINE 3 IS LEVEL. ROOF DECK AND FRAMING PLAN RIGHT OF GRID LINE 3 IS SLOPED AT APPROX. 1/2" TO 1 FOOT.
6. SEE SHEET S2.04 FOR WIND UPLIFT PLAN AND SCHEDULE FOR ROOF JOISTS.
7. SEE SHEET S2.04 FOR PRECAST WALL ROOF LOADINGS AND REACTIONS.
8. COORDINATE WITH OTHER DISCIPLINES AND TRADES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, EQUIPMENT, AND PIPING.
9. ▶ INDICATES A MOMENT CONNECTION. SEE SECTIONS AND TYPICAL DETAILS.
10. ✻ DENOTES 3 1/2" JOIST SEAT AT THE PLAN RIGHT END OF JOIST ONLY, 2 1/2" AT PLAN LEFT END.
11. SEE S1 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS PERTAINING TO THIS PLAN.
12. CONNECTION FORCE TERMS:
    - A= xxK - BEAM AXIAL REACTION (TENSION & COMPRESSION)
    - M= xxFT-K - BEAM MOMENT REACTION
    - R= xxK - BEAM SHEAR REACTION

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ROOF FRAMING PLAN

S2.03

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
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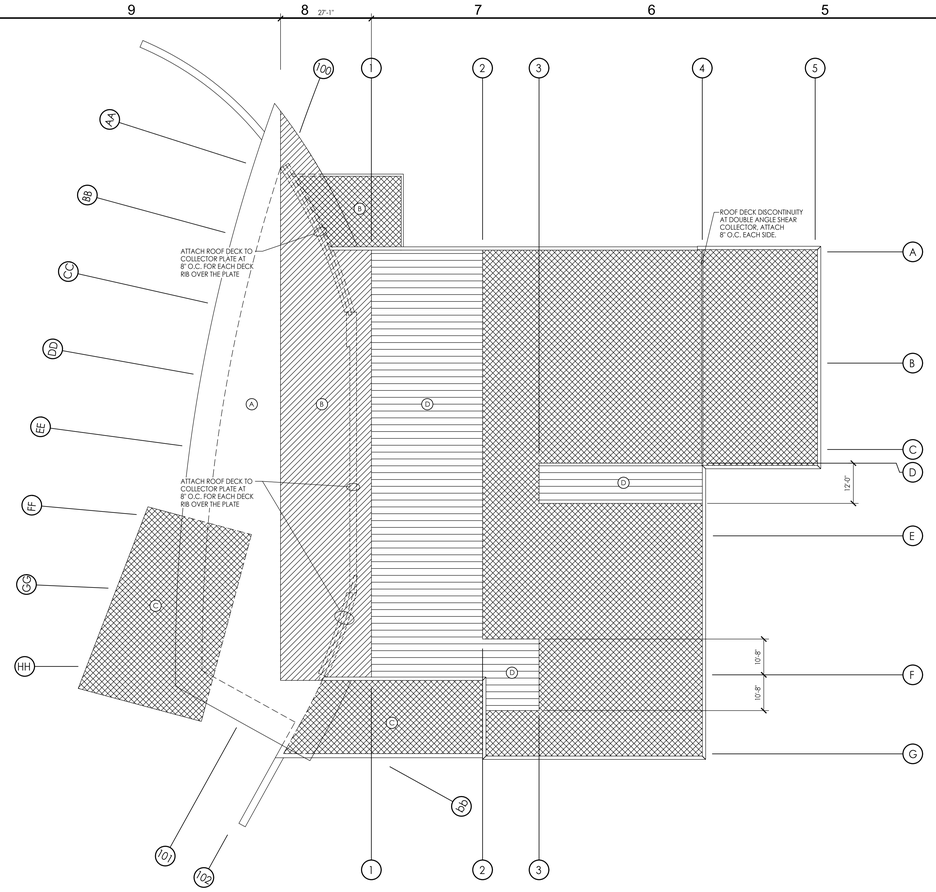
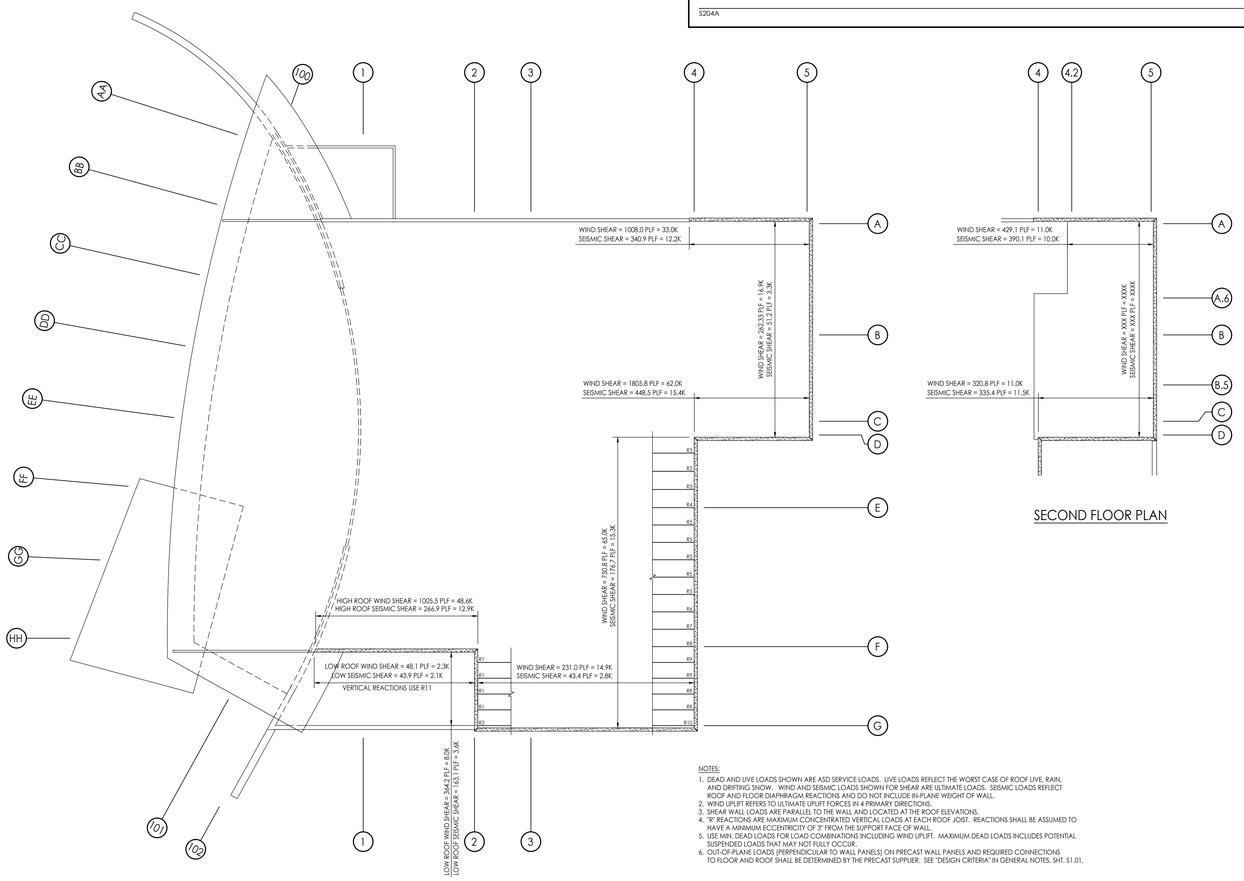


STEEL ROOF DECK FASTENING SCHEDULE

PATTERN	ZONE	DECK TYPE	FASTENING DESCRIPTION
	A	3" TYPE N	ANCHOR DECK UNITS WITH 5/8" DIA. PUDDLE WELDS IN A 24/4 PATTERN TO ALL INTERIOR STEEL SUPPORTING MEMBERS AND AT 8" O.C. AROUND ALL PERIMETER EDGES. FASTEN SIDELAPS OF DECK WITH 3, #10 TEK SCREWS PER SPAN.
	B	3" TYPE N	ANCHOR DECK UNITS WITH 5/8" DIA. PUDDLE WELDS IN A 24/4 PATTERN TO ALL INTERIOR STEEL SUPPORTING MEMBERS AND AT 8" O.C. AROUND ALL PERIMETER EDGES. FASTEN SIDELAPS OF DECK WITH 6, #10 TEK SCREWS PER SPAN.
	C	1 1/2" TYPE B	ANCHOR DECK UNITS WITH 5/8" DIA. PUDDLE WELDS IN A 36/7 PATTERN TO ALL INTERIOR STEEL SUPPORTING MEMBERS AND AT 8" O.C. AROUND ALL PERIMETER EDGES. FASTEN SIDELAPS OF DECK WITH 1, #10 TEK SCREWS PER SPAN.
	D	1 1/2" TYPE B	ANCHOR DECK UNITS WITH 5/8" DIA. PUDDLE WELDS IN A 36/9 PATTERN TO ALL INTERIOR STEEL SUPPORTING MEMBERS AND AT 8" O.C. AROUND ALL PERIMETER EDGES. FASTEN SIDELAPS OF DECK WITH 1, #10 TEK SCREWS PER SPAN.

ROOF JOIST REACTIONS ON PRECAST PANELS

MARK	MIN. DEAD LOAD (K)	MAX. DEAD LOAD (K)	LIVE LOAD	WIND UPLIFT (+X)	WIND UPLIFT (-X)	WIND UPLIFT (+Y)	WIND UPLIFT (-Y)
R1	0.32	2.12	1.03	-1.27	-0.82	-1.27	-0.59
R2	0.30	1.61	0.66	-0.82	-0.52	-0.82	-0.38
R3	1.06	5.20	3.43	-1.95	-4.07	-1.95	-1.95
R4	1.03	5.10	3.35	-1.90	-3.98	-2.27	-1.90
R5	1.01	5.00	3.28	-1.86	-3.89	-2.59	-1.86
R6	0.97	4.81	3.28	-1.86	-3.89	-3.31	-1.86
R7	0.97	4.81	3.28	-1.86	-3.89	-4.04	-1.86
R8	0.97	4.81	3.13	-2.19	-3.72	-3.86	-1.78
R9	0.92	4.62	2.98	-2.52	-3.54	-3.68	-1.69
R10	0.87	3.13	1.91	-1.62	-2.27	-2.36	-1.09
R11	0.39	1.37	1.70	-0.64	-0.64	-1.35	-0.64



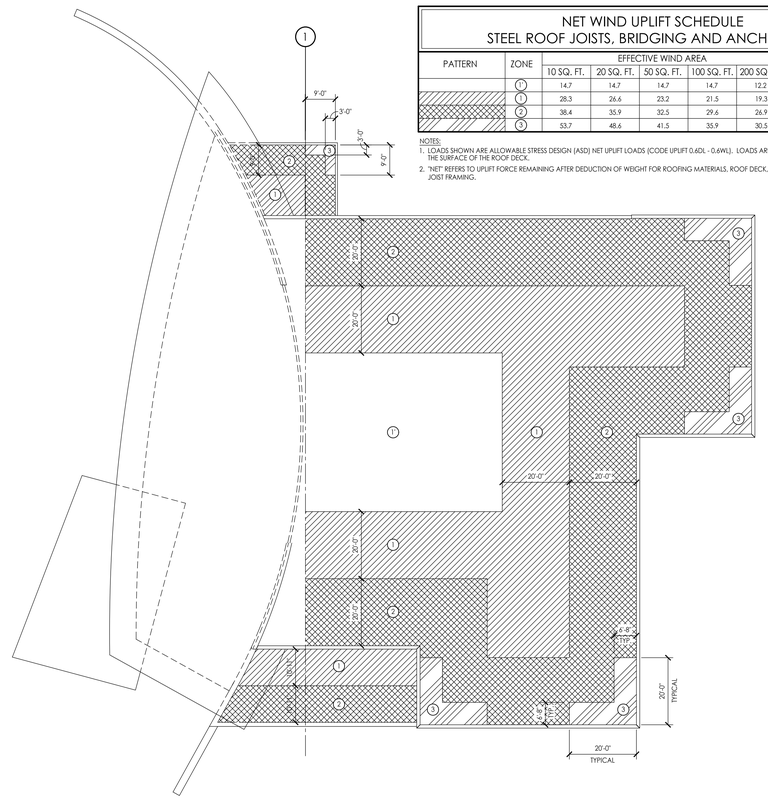
SECOND FLOOR PLAN

NOTES:
1. DEAD AND LIVE LOADS SHOWN ARE ASD SERVICE LOADS. LIVE LOADS REFLECT THE WORST CASE OF ROOF LIVE, RAIN, AND DRIFTING SNOW. WIND AND SEISMIC LOADS SHOWN FOR SHEAR ARE ULTIMATE LOADS. SEISMIC LOADS REFLECT ROOF AND FLOOR DIAPHRAGM REACTIONS AND DO NOT INCLUDE IN-PLANE WEIGHT OF WALL.
2. WIND UPLIFT REFERS TO ULTIMATE UPLIFT FORCES IN 4 PRIMARY DIRECTIONS.
3. SHEAR WALL LOADS ARE PARALLEL TO THE WALL AND LOCATED AT THE ROOF ELEVATIONS.
4. "R" REACTIONS ARE MAXIMUM CONCENTRATED VERTICAL LOADS AT EACH ROOF JOIST. REACTIONS SHALL BE ASSUMED TO HAVE A MINIMUM ECCENTRICITY OF 3" FROM THE SUPPORT FACE OF WALL.
5. USE MIN. DEAD LOADS FOR LOAD COMBINATIONS INCLUDING WIND UPLIFT. MAXIMUM DEAD LOADS INCLUDES POTENTIAL SUSPENDED LOADS THAT MAY NOT FULLY OCCUR.
6. OUT-OF-PLANE LOADS (PERPENDICULAR TO WALL PANELS) ON PRECAST WALL PANELS AND REQUIRED CONNECTIONS TO FLOOR AND ROOF SHALL BE DETERMINED BY THE PRECAST SUPPLIER. SEE "DESIGN CRITERIA" IN GENERAL NOTES, SHT. S1.01.

NET WIND UPLIFT SCHEDULE
STEEL ROOF JOISTS, BRIDGING AND ANCHORAGE

PATTERN	ZONE	EFFECTIVE WIND AREA						
		10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	200 SQ. FT.	500 SQ. FT.	1000 SQ. FT.
	1	14.7	14.7	14.7	14.7	12.2	8.8	6.2
	1	28.3	26.6	23.2	21.5	19.3	16.4	16.4
	2	38.4	35.9	32.5	29.6	26.9	23.2	23.2
	3	53.7	48.6	41.5	35.9	30.5	23.2	23.2

NOTES:
1. LOADS SHOWN ARE ALLOWABLE STRESS DESIGN (ASD) NET UPLIFT LOADS (CODE UPLIFT 0.6DL - 0.6WL). LOADS ARE NORMAL (PERPENDICULAR) TO THE THE SURFACE OF THE ROOF DECK.
2. "NET" REFERS TO UPLIFT FORCE REMAINING AFTER DEDUCTION OF WEIGHT FOR ROOFING MATERIALS, ROOF DECK, AND JOIST FRAMING.



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NET WIND UPLIFT, STEEL ROOF DECK FASTENING, PRECAST SHEAR WALLS, AND SCHEDULES

S2.04

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA

S204A

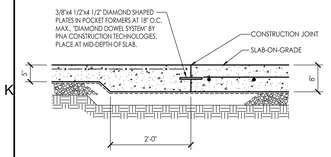
STEEL ROOF DECK FASTENING PLAN AND SCHEDULE **F1**
1/16"=1'-0"

S204B

PRECAST SHEAR WALL GRAVITY AND LATERAL FORCES **A7**
1/16"=1'-0"

S204

NEW WIND UPLIFT PLAN **A1**
1/16"=1'-0"



SECTION J12
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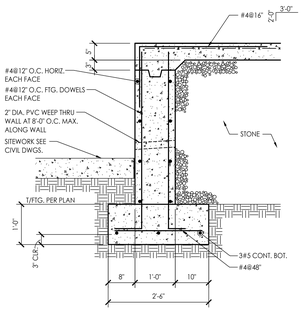

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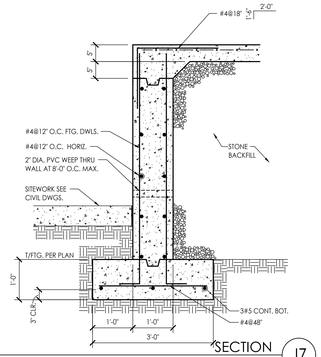

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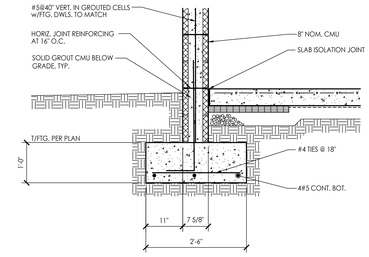

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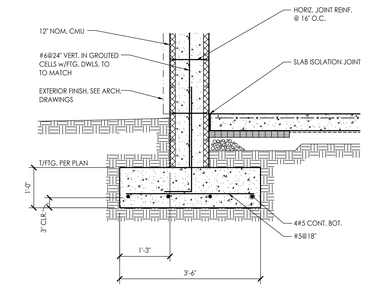

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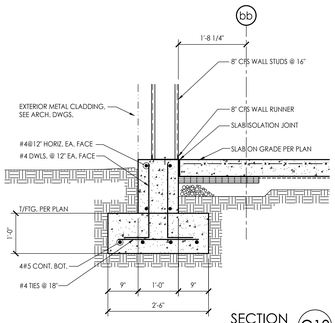

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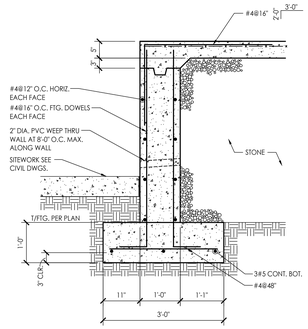

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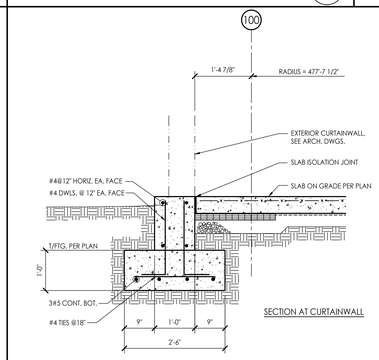
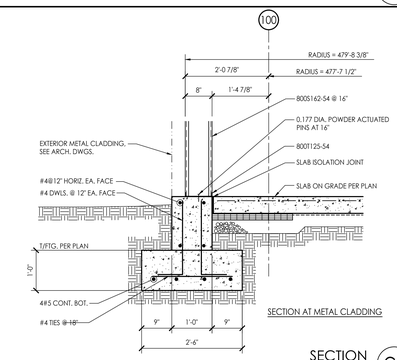


SECTION AT CURTAINWALL

SECTION G7
S301 3/4"=1'-0"



SECTION AT METAL CLADDING

SECTION G4
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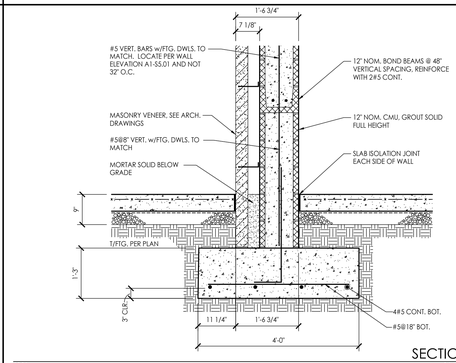

SECTION G1
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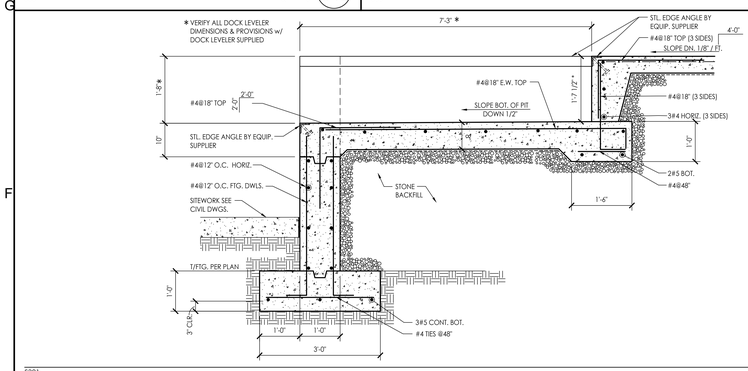

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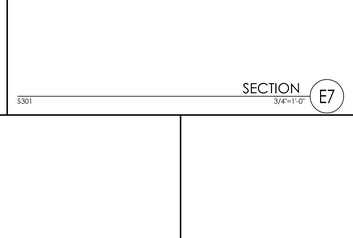

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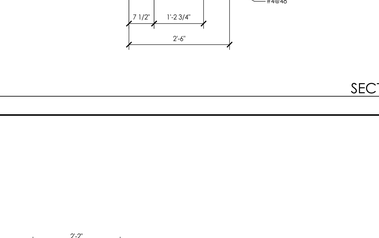

SECTION E4
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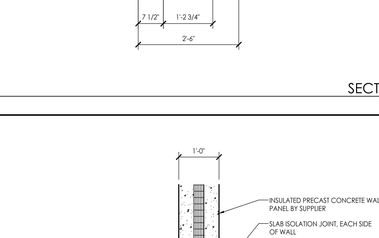
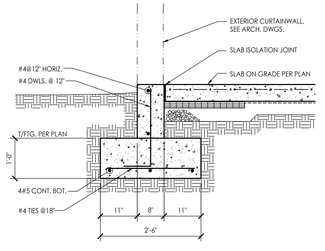
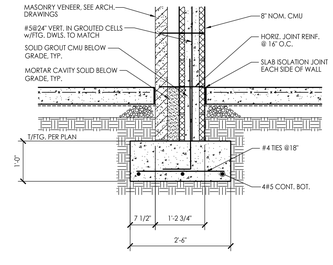


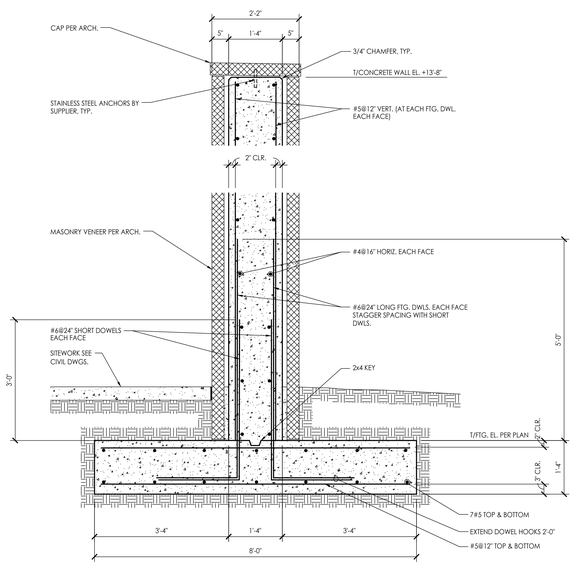
SECTION E1
S301 3/4"=1'-0"



SECTION C12
S301 3/4"=1'-0"



SECTION A12
S301 3/4"=1'-0"



SECTION A8
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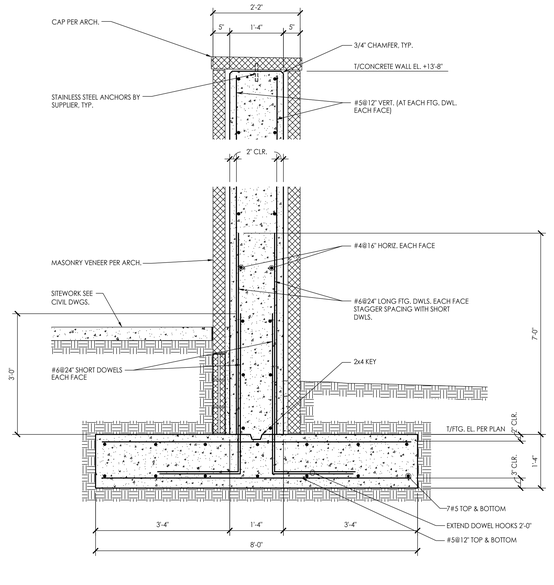
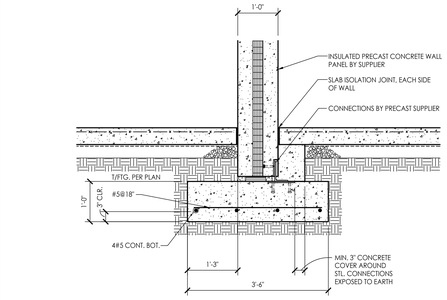
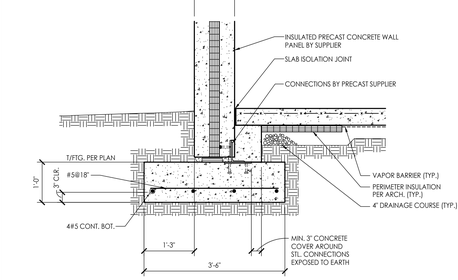


SECTION A4
S301 3/4"=1'-0"



SECTION C1
S301 3/4"=1'-0"



SECTION A1
S301 3/4"=1'-0"

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#	Description	Date

Museum of the MARINE
Community • Corps • Carolinas
Museum of the Marine

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FOUNDATION DETAILS

S3.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
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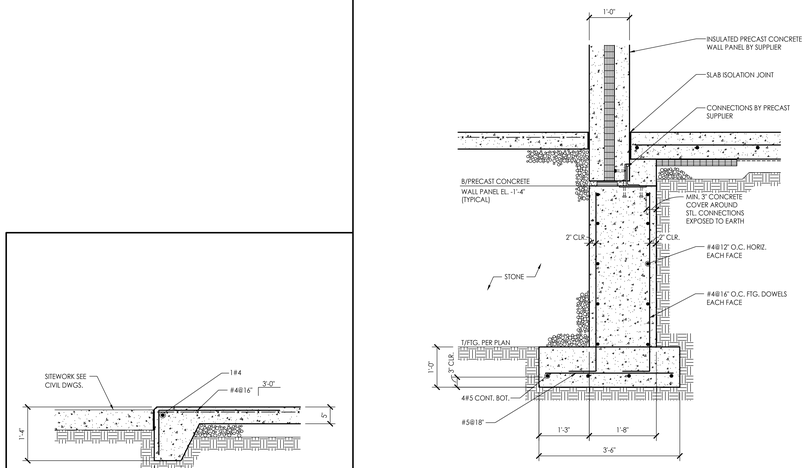
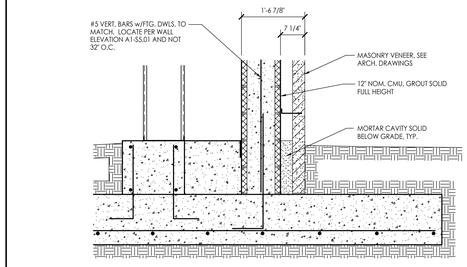
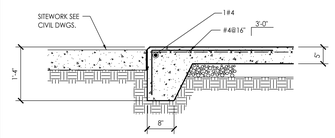


SECTION G4
3/4"=1'-0"
5302



SECTION J1
3/4"=1'-0"
5302



SECTION G7
3/4"=1'-0"
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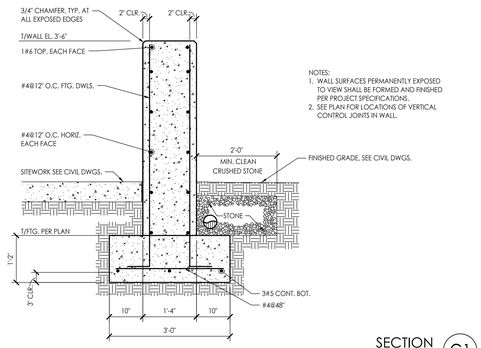

SECTION G1
3/4"=1'-0"
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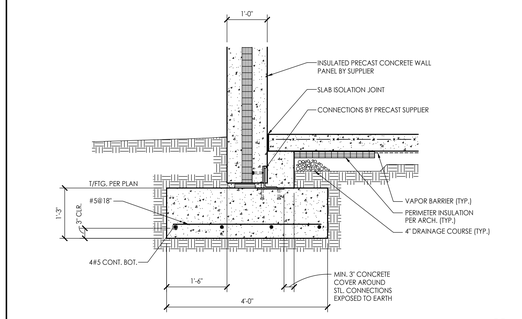
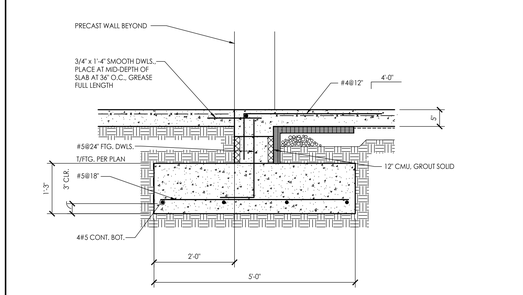
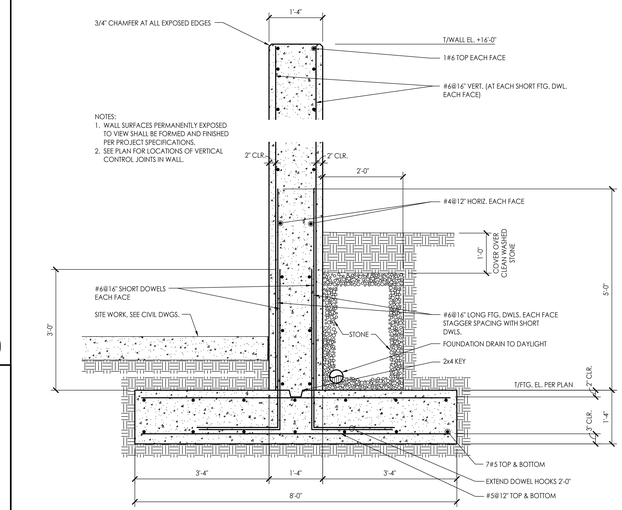


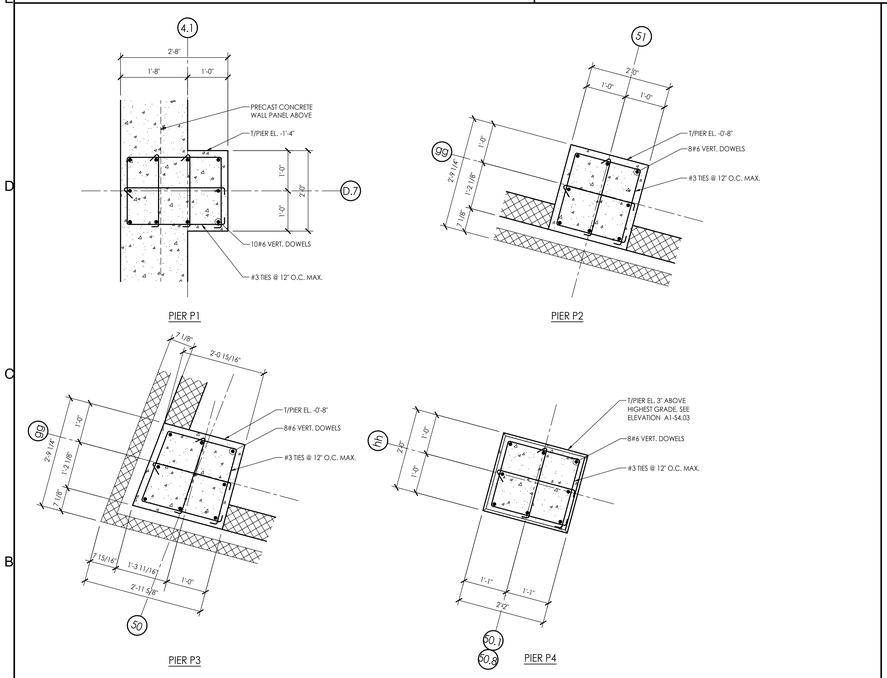
SECTION E8
3/4"=1'-0"
5302



SECTION E5
3/4"=1'-0"
5302



SECTION D1
3/4"=1'-0"
5302



SECTION A9
3/4"=1'-0"
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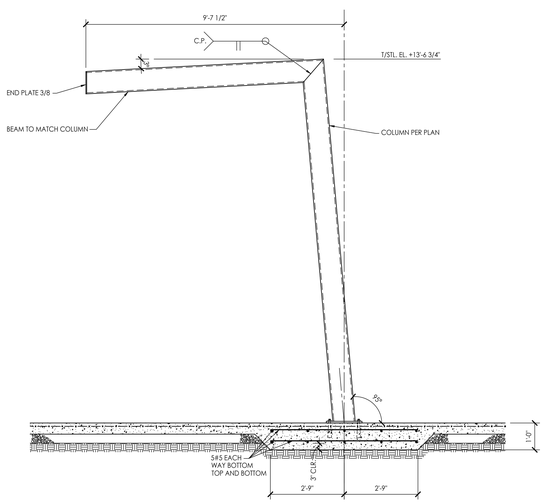
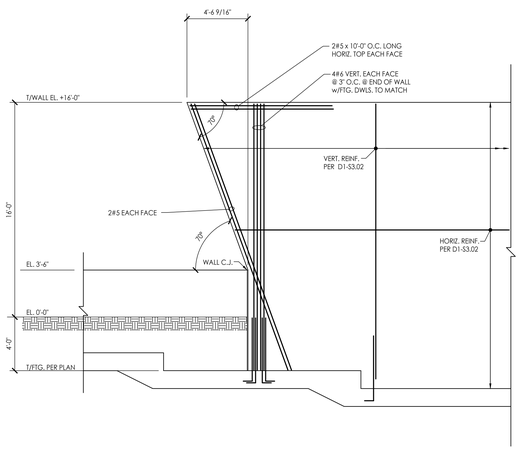


ELEVATION A5
1/2"=1'-0"
5302B



ELEVATION A1
1/4"=1'-0"
5302A

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#	Description	Date

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FOUNDATION DETAILS

S3.02

ISSUE DATE: 08-01-2023
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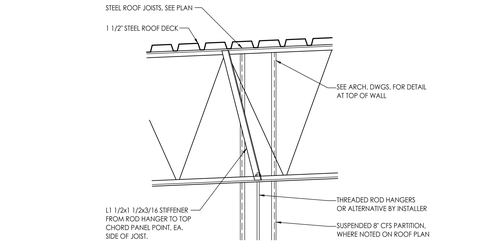
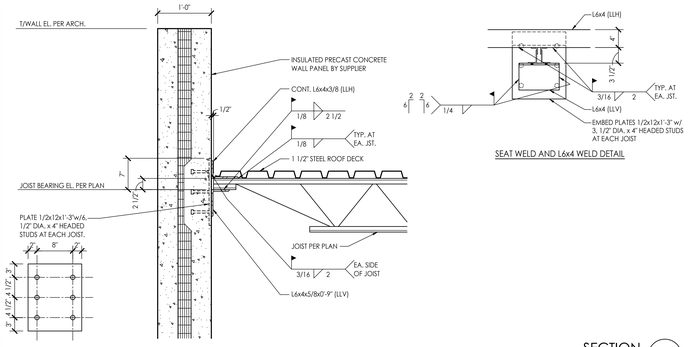
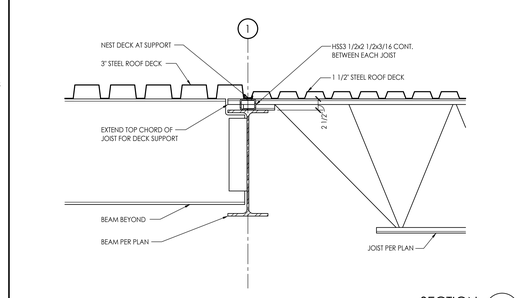


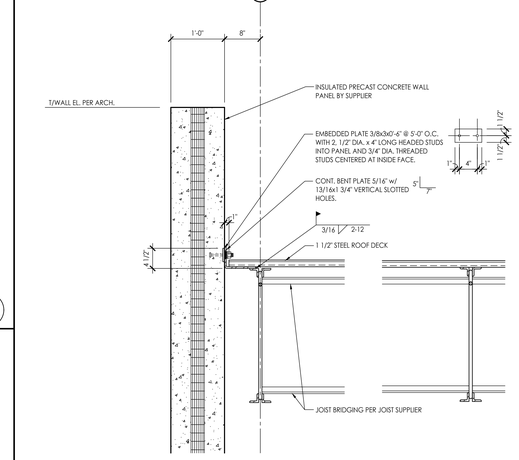
S401 SECTION J11



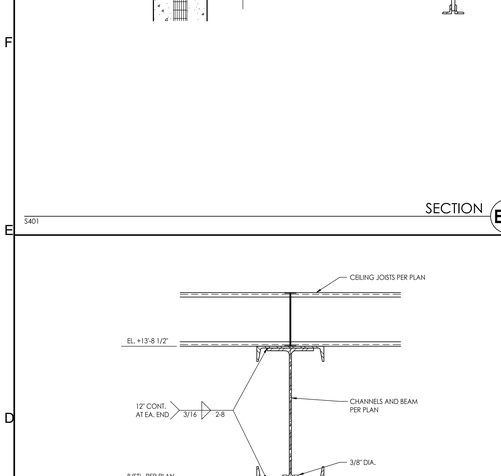
S401 SECTION J7 1"=1'-0"



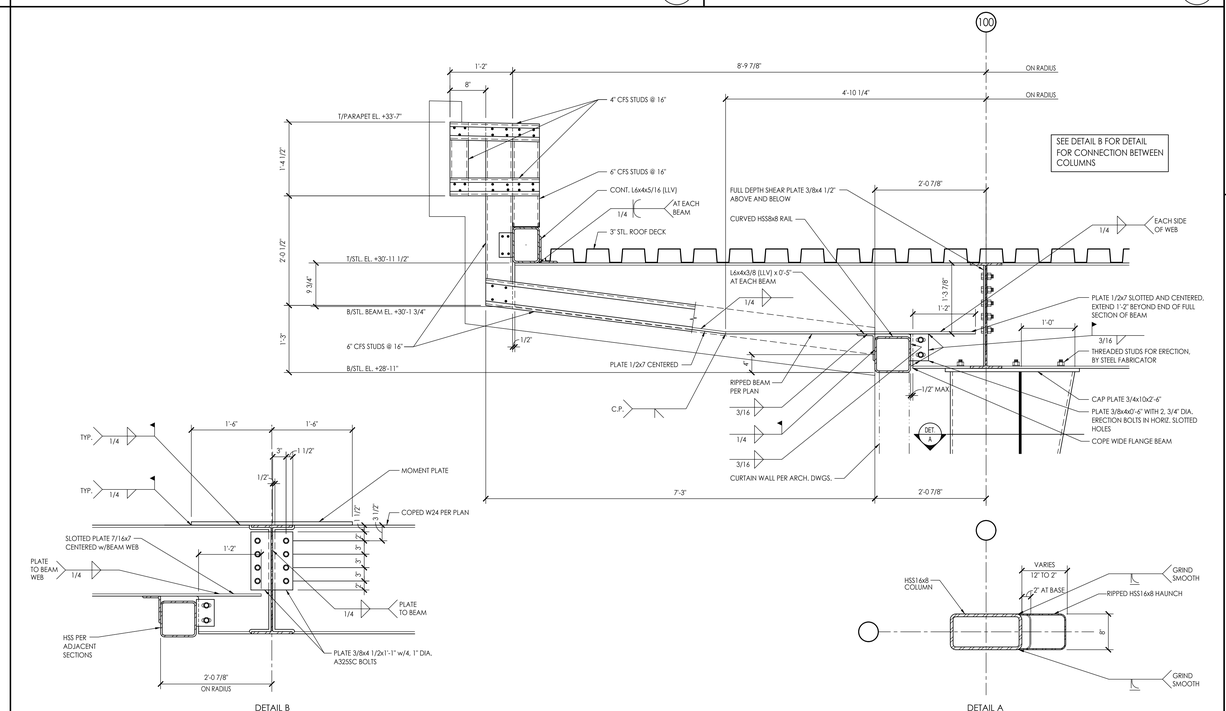
S401 SECTION J4 1"=1'-0"



S401 SECTION H1 1"=1'-0"



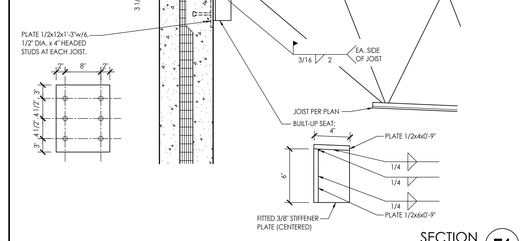
S401 SECTION E11



DETAIL B

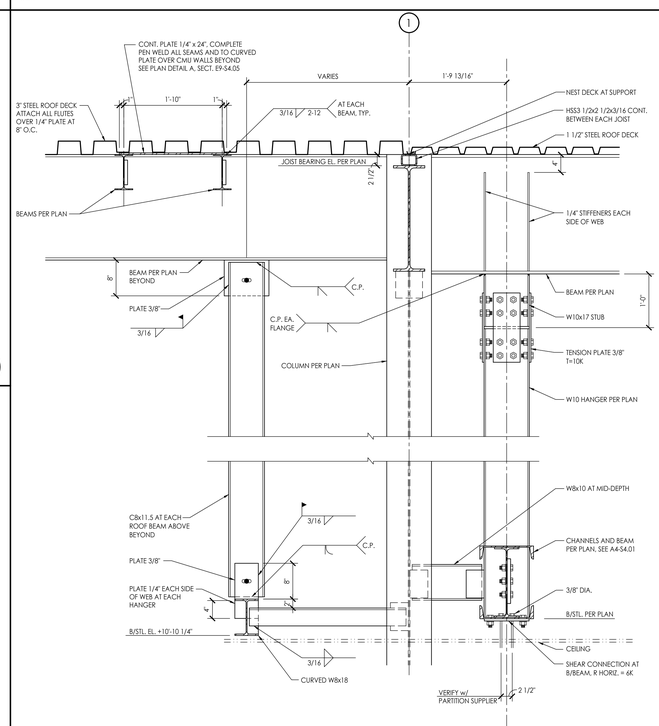
DETAIL A

S401 SECTION E4

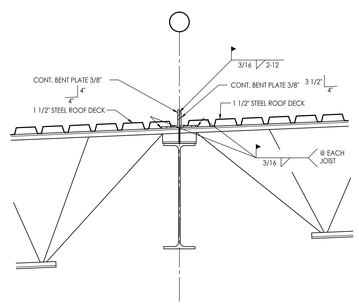


S401 SECTION E1

S401 SECTION C11



SECTION C7 1"=1'-0"



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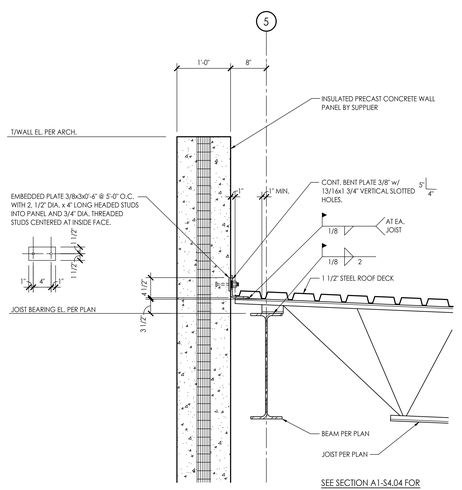
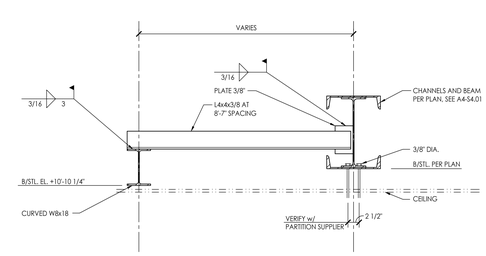
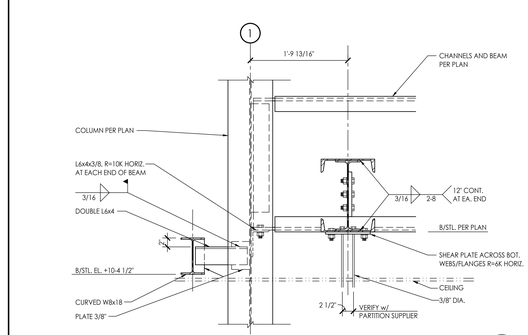


S401 SECTION A1



S401 SECTION A11



S401 SECTION A4

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#	Description	Date

Museum of the MARINE
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Museum of the Marine

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FRAMING DETAILS

S4.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
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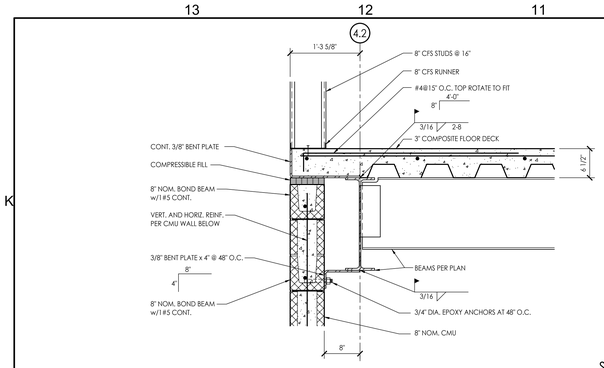

S402

SECTION J10

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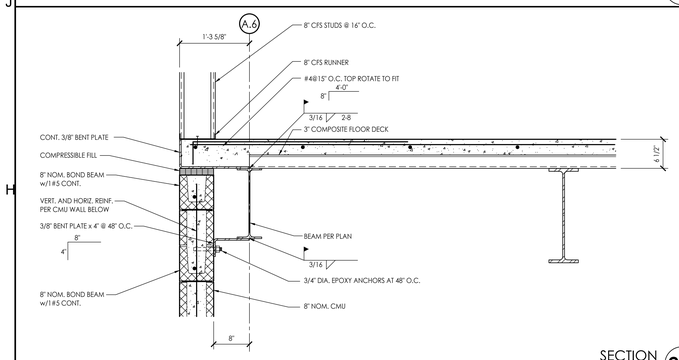

S402

SECTION G10

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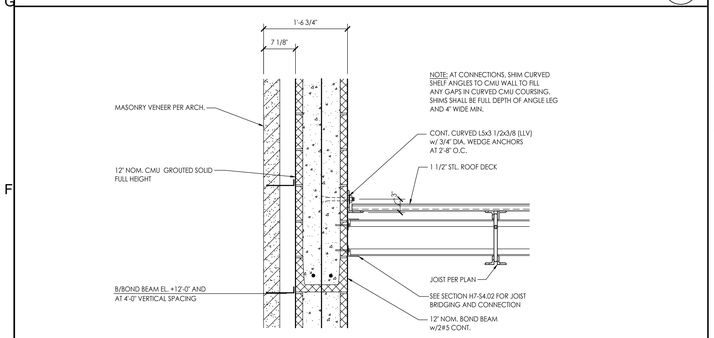

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SECTION E10

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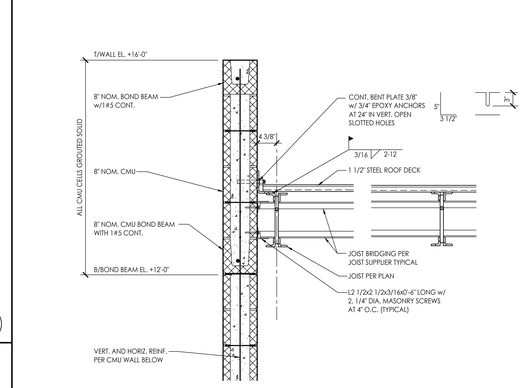

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SECTION H7

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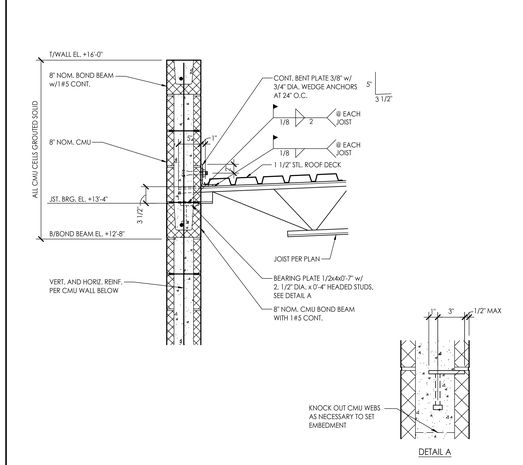

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SECTION H4

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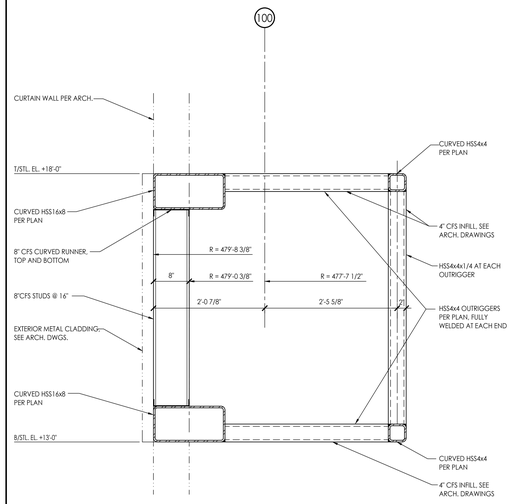
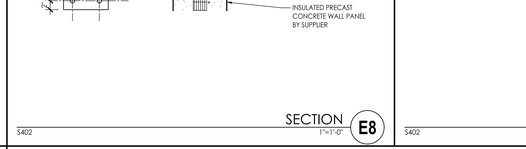


S402

SECTION H1

1"=1'-0"



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SECTION E8

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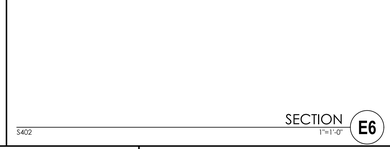

S402

SECTION E6

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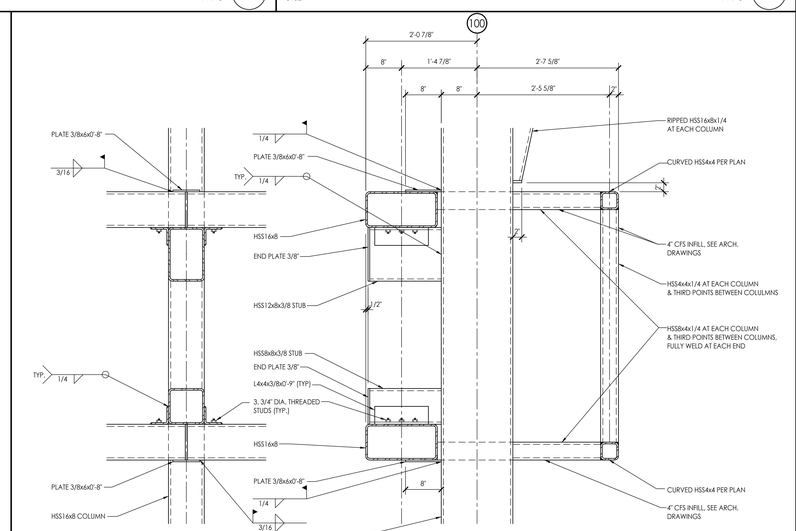

S402

SECTION E1

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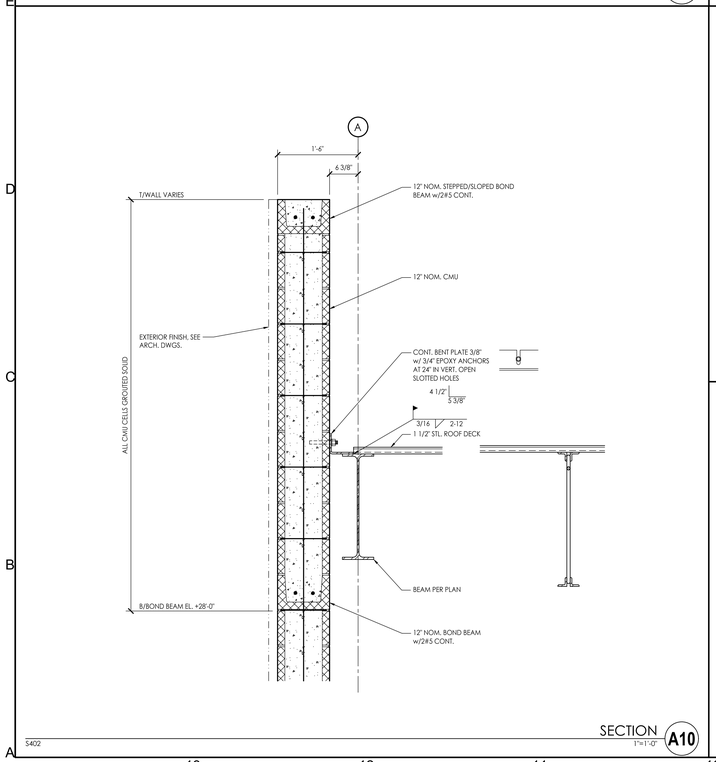


S402

SECTION A10

1"=1'-0"

S402

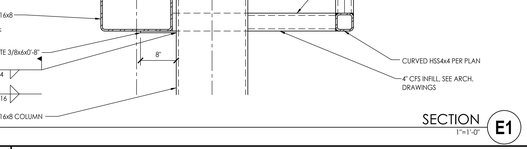
SECTION C7

1"=1'-0"

S402

SECTION C4

1"=1'-0"



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SECTION C1

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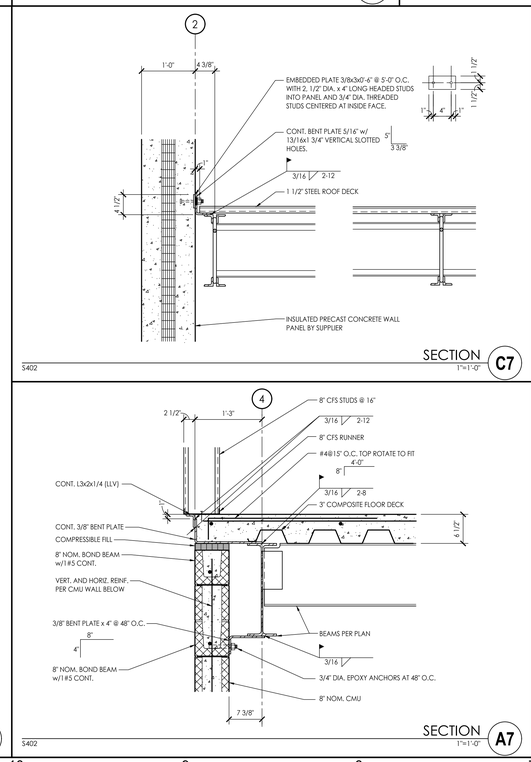

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SECTION A7

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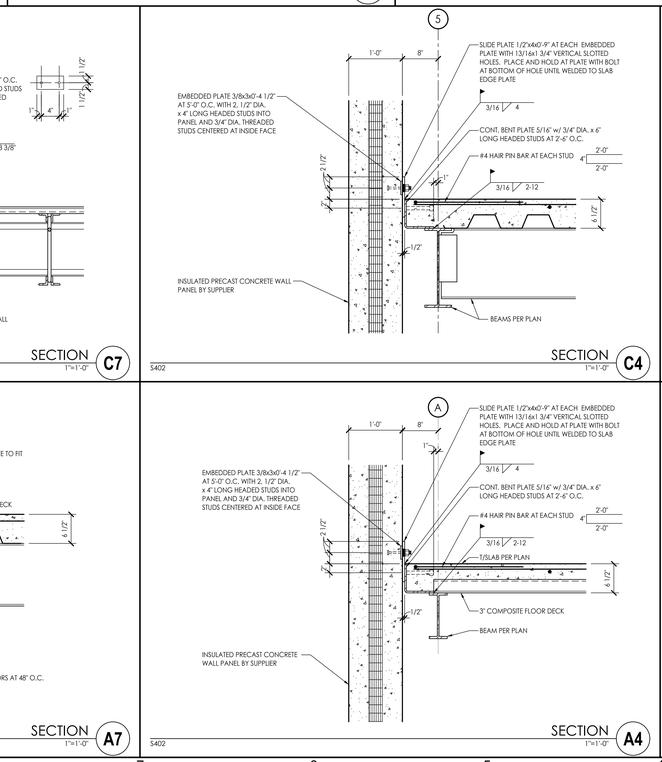

S402

SECTION A4

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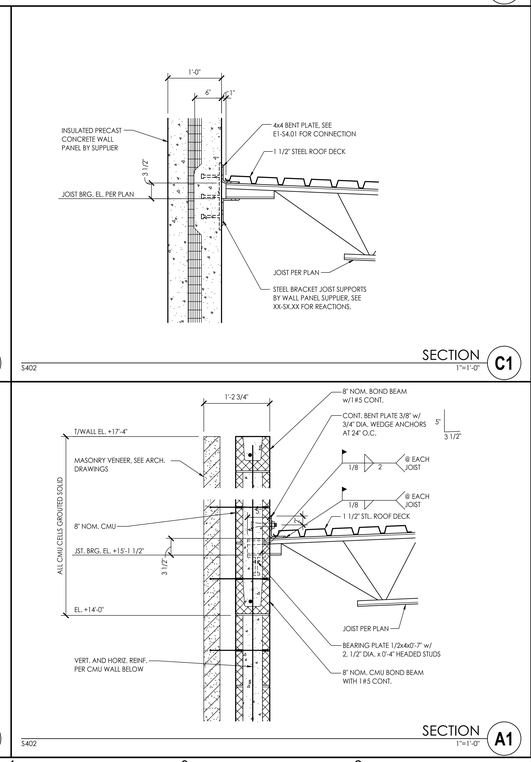

S402

SECTION A1

1"=1'-0"

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#	Description	Date

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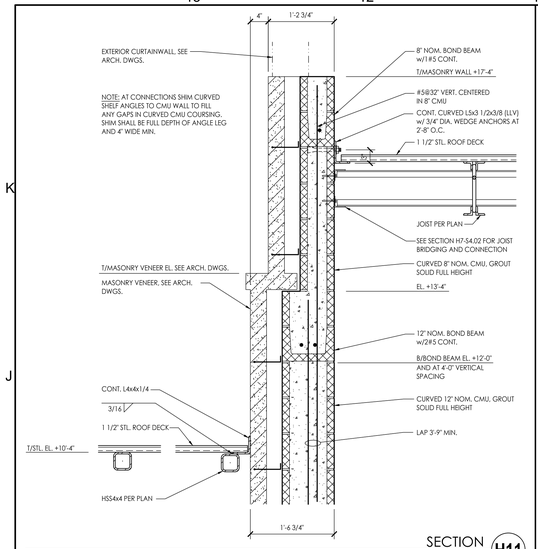
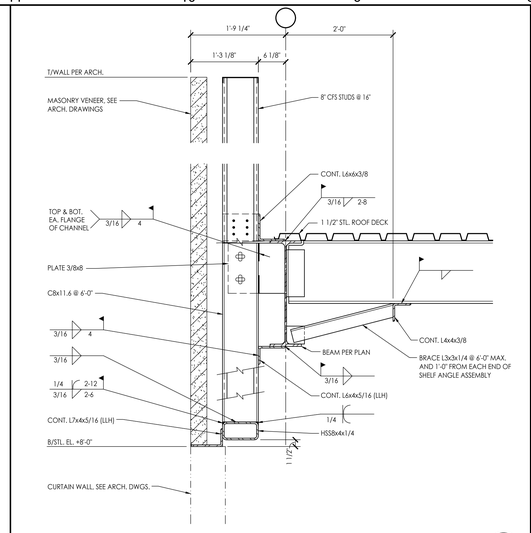
FRAMING DETAILS

S4.02

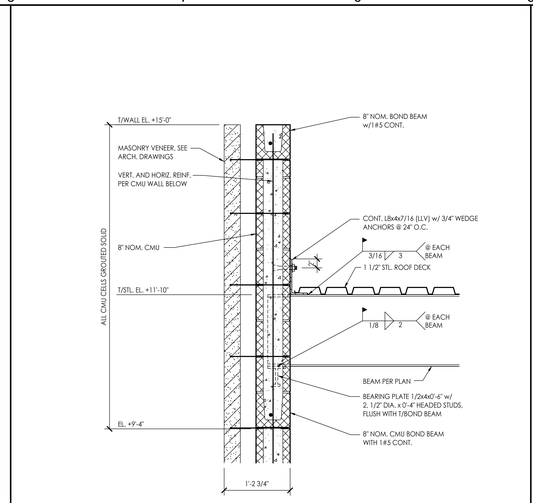
ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: SEA & MBR
CHECKED BY: SEA



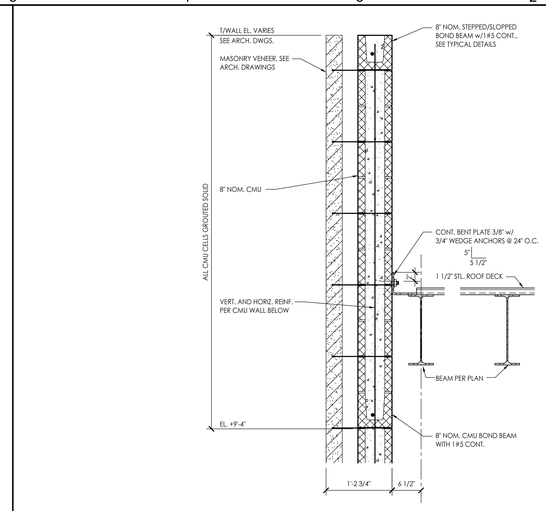
S403 SECTION H11



S403 SECTION H8



S403 SECTION H5



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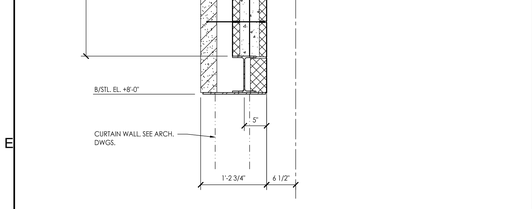

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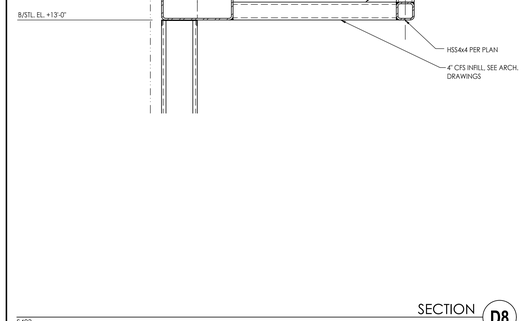

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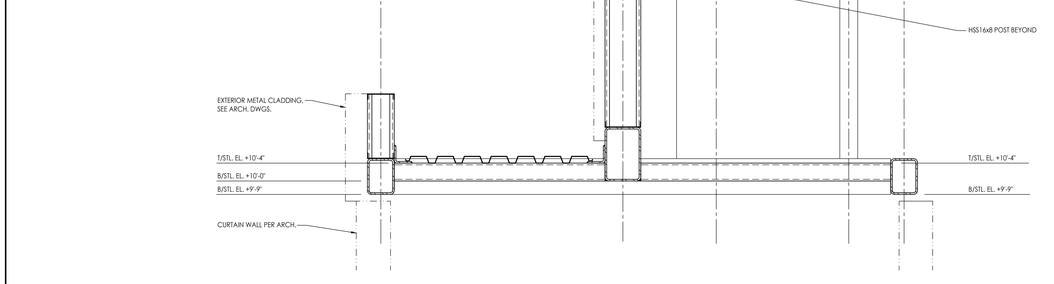

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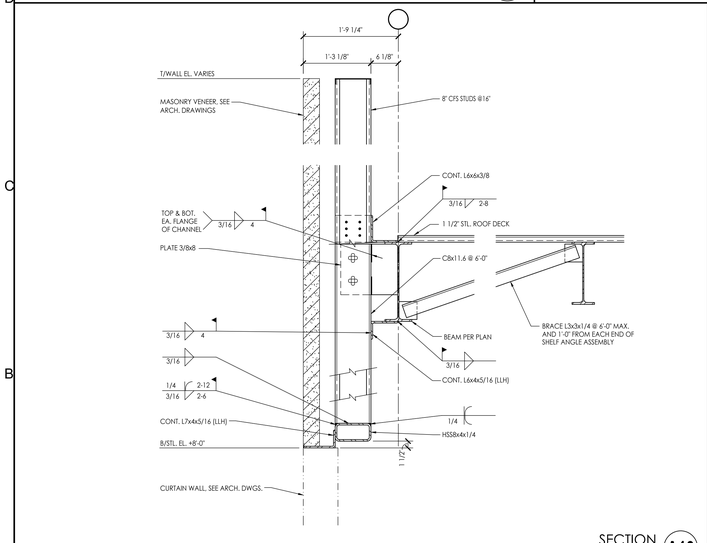

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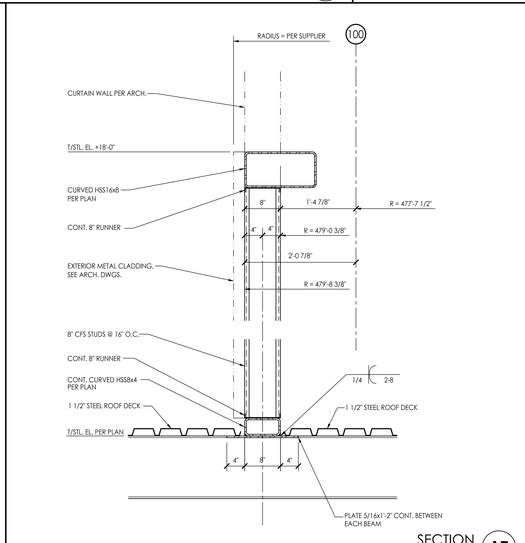
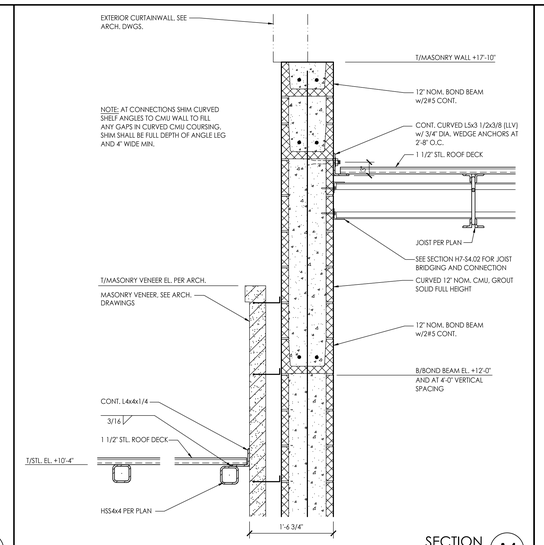


S403 SECTION A7



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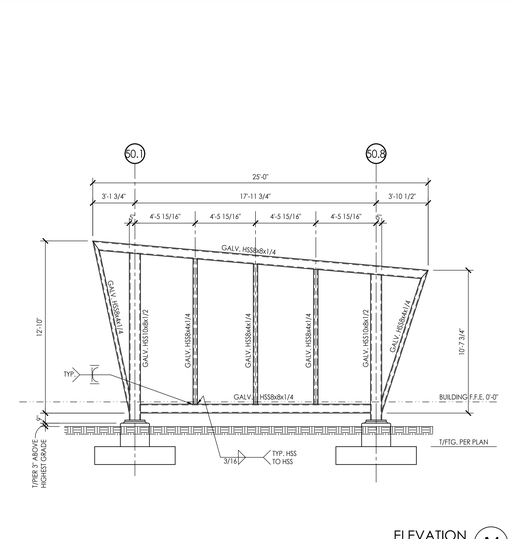

S403A ELEVATION A1
1/4"=1'-0"

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S4.03

ISSUE DATE: 08-01-2023
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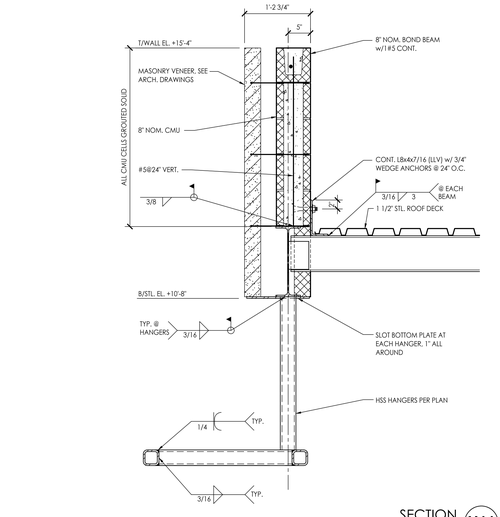

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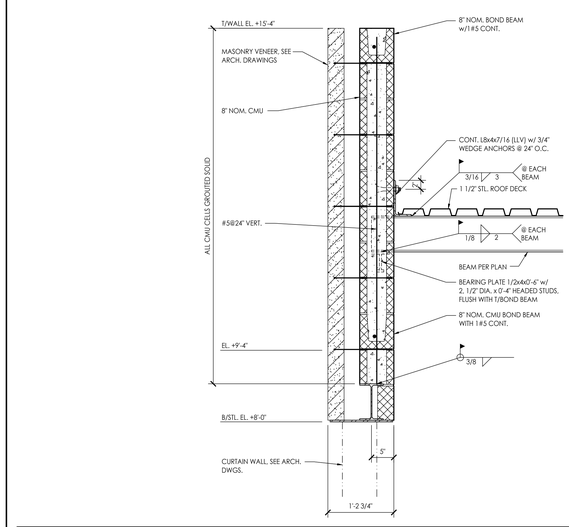
SECTION H11



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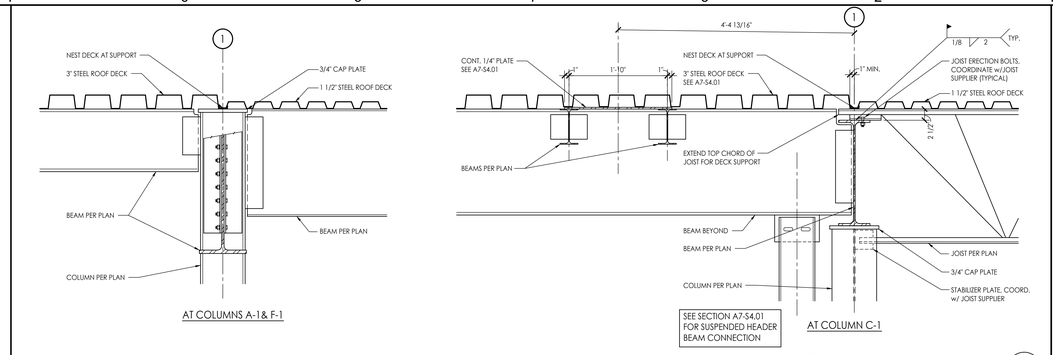
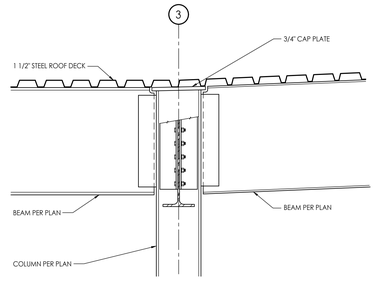
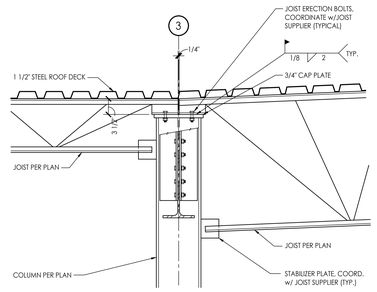
SECTION H7

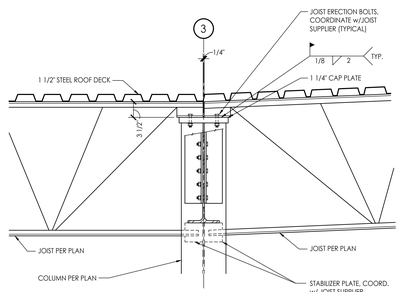


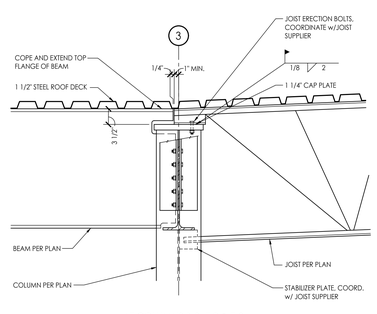
S404

COLUMN CAP PLATE DETAILS J1



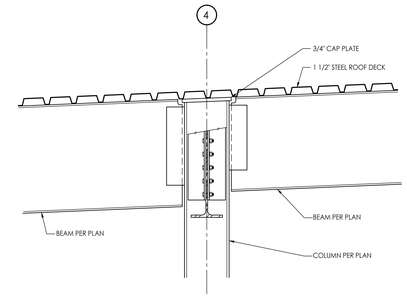


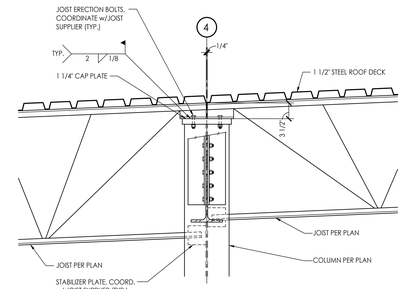




S404

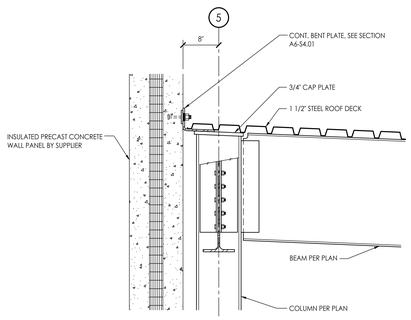
COLUMN CAP PLATE DETAIL A4

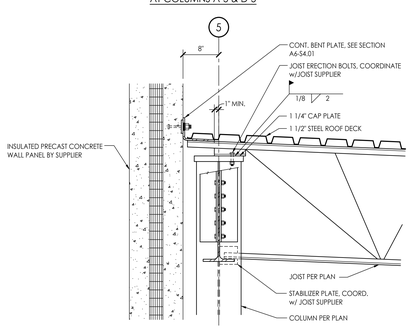




S404

COLUMN CAP PLATE DETAILS E1





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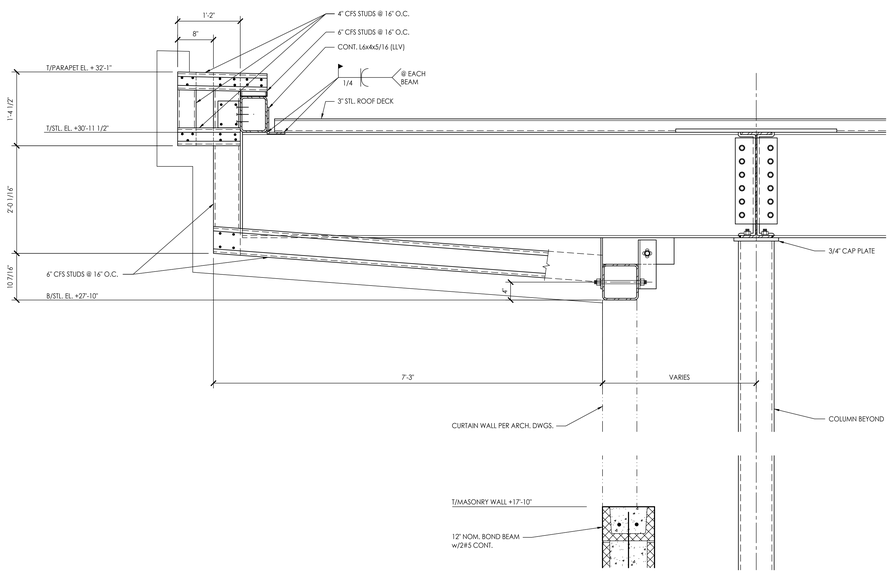
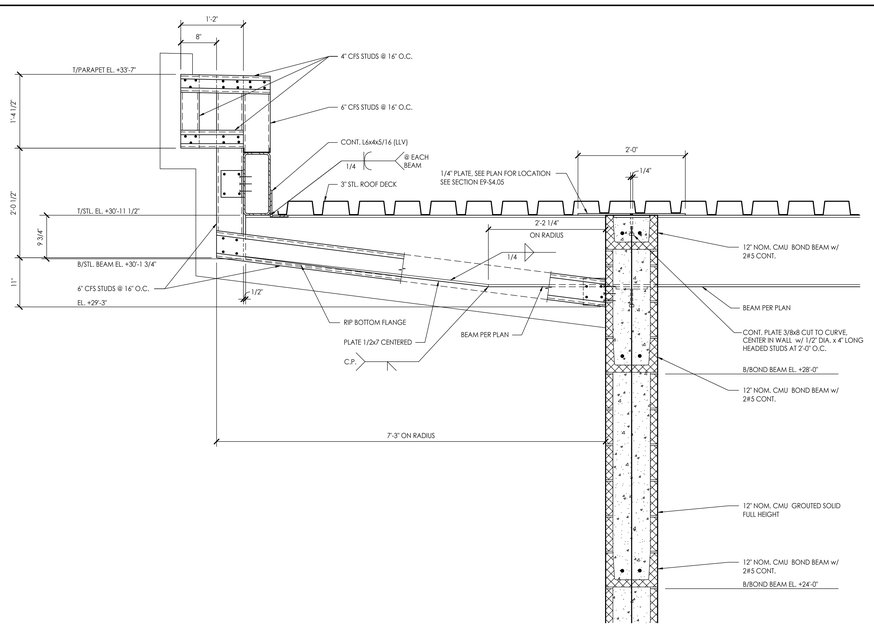
COLUMN CAP PLATE DETAILS A1



S404

SECTION E7



S404

SECTION A7

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S4.04

ISSUE DATE: 08-01-2023
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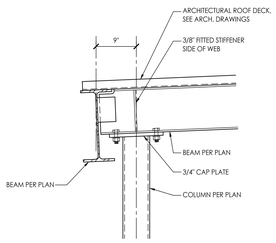
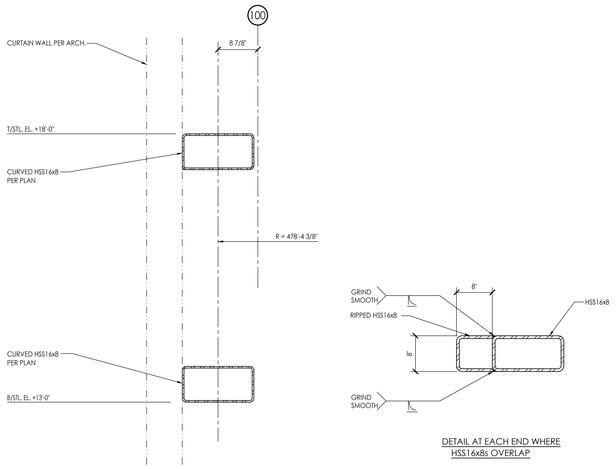


SECTION H12

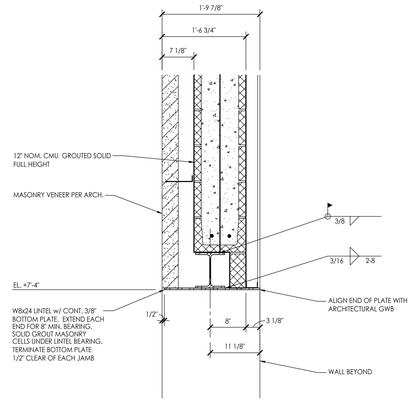
S405



DETAIL AT EACH END WHERE HSS16x8s OVERLAP

SECTION H8

S405



SECTION H5

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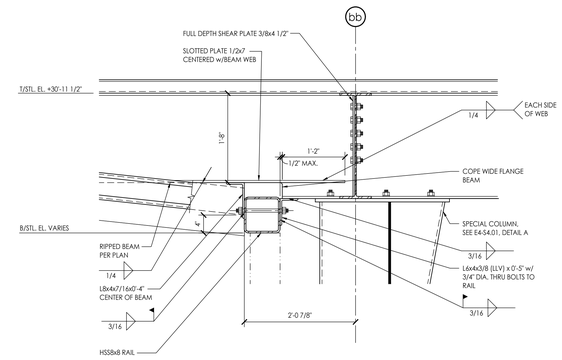
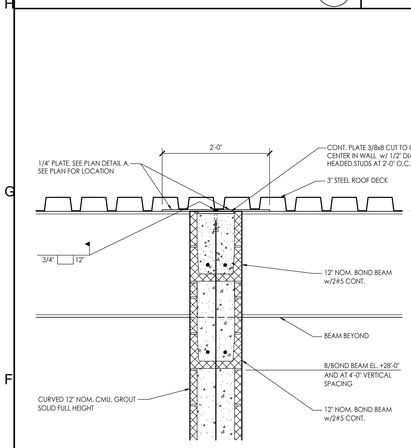
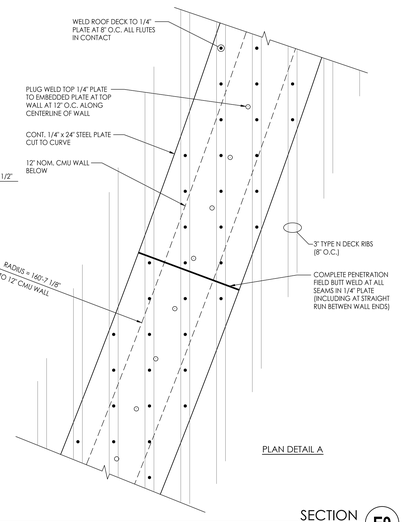


SECTION H1

S405

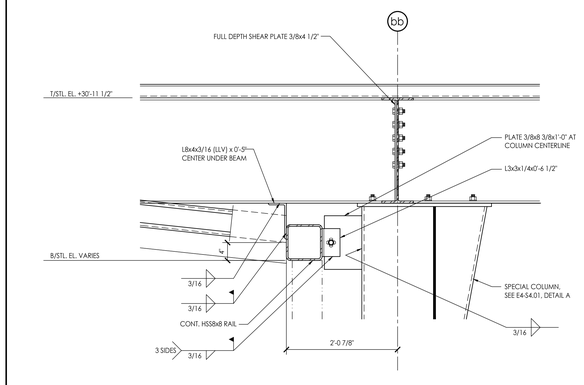




PLAN DETAIL A

SECTION E9

S405



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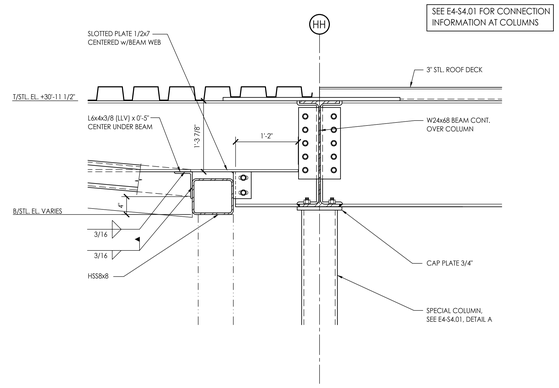
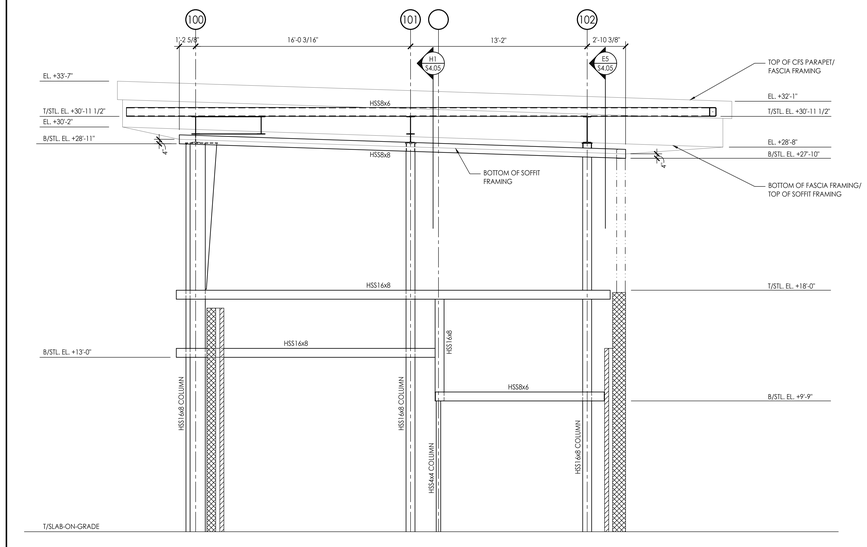


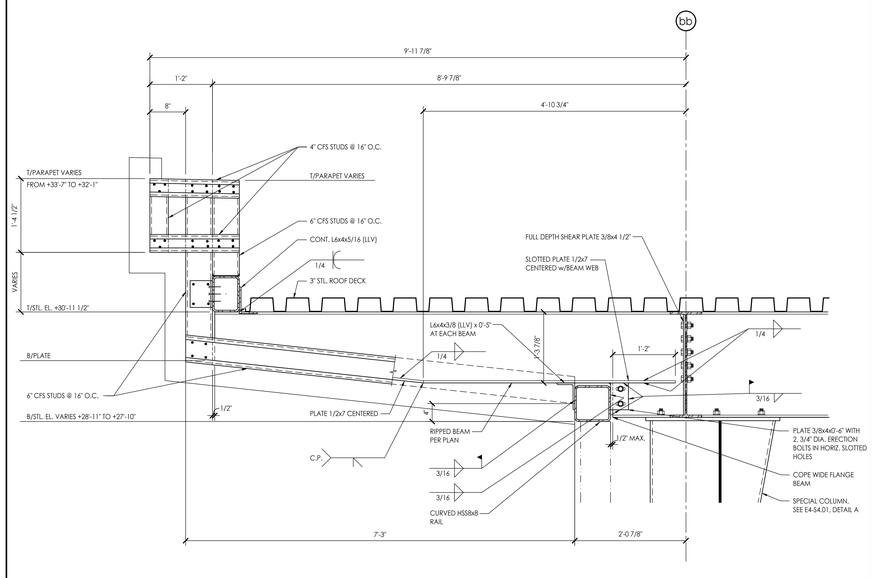
SECTION E1

S405



ELEVATION A6
1/4"=1'-0"

S405A



SECTION A1

S405

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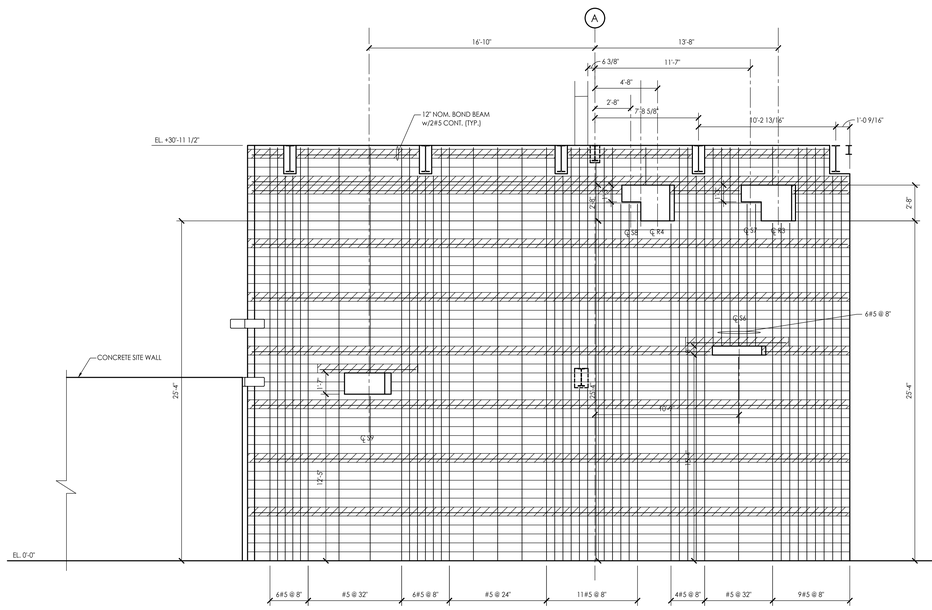
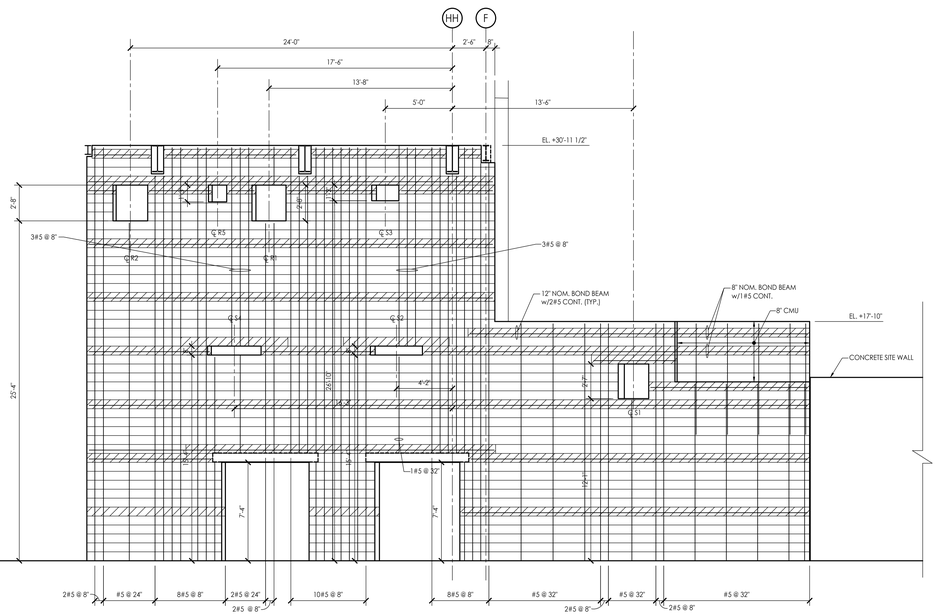


CURVED 12" NOM. CMU WALL

ELEVATION NOTES:
1. WALL ELEVATIONS ARE DRAWN AS VIEWED LEFT-TO RIGHT ON THE PLAN. THEY ARE NOT FLATTENED. DIMENSIONS GIVEN ARE PERPENDICULER TO THE COLUMN GRIDLINES SHOWN.
2. LOCATIONS OF VERTICAL WALL REINFORCING SHOWN IS APPROXIMATE DEPENDING ON FIELD LOCATION OF VERTICAL CMU COURSING. INSTALL TO MEET INTENT OF LAYOUT SHOWN ALIGNING BARS UNDER BEAM BEARING POCKETS AND IN CELLS ADJACENT TO VERTICAL EDGES OF OPENINGS. OTHERWISE, SPACE VERTICAL BARS NOT TO EXCEED 32" O.C.
3. ALIGH VERTICAL CELLS IN CURVED WALLS AND GROUT ALL CELLS SOLID.
4. PROVIDE FOOTING DOWELS TO MATCH ALL VERTICAL WALL REINFORCING.
5. ▨ INDICATES HORIZ. BOND BEAMS AT 4'-0" VERTICAL SPACING AND OVER WALL OPENINGS. REINFORCE 12" CMU WITH 2#5 CONT. AND 8" CMU WITH 1#5 CONT. LAP BOND BEAM BARS 3'-9" MIN., STAGGER LAPS IN 12" CMU. SEE TYPICAL DETAILS AND PLAN SECTIONS.



CURVED 12" NOM. CMU WALL

ELEVATION
1/4"=1'-0"
A1

S501

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ELEVATIONS

S5.01

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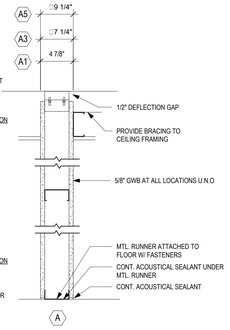
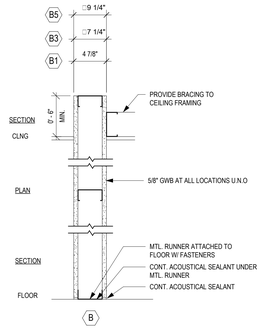


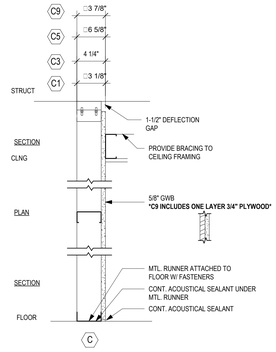
A

A1 3-5/8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
A2 SAME AS A1 WITH SOUND ATTENUATION BLANKETS
A3 6" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
A4 SAME AS A3 WITH SOUND ATTENUATION BLANKETS
A5 8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
A6 SAME AS A5 WITH SOUND ATTENUATION BLANKETS



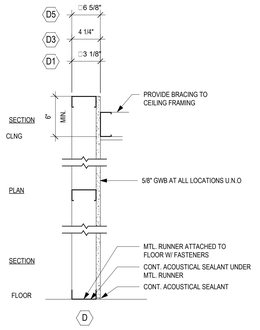
B

B1 3-5/8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES
B2 SAME AS B1 WITH SOUND ATTENUATION BLANKETS
B3 6" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES
B4 SAME AS B3 WITH SOUND ATTENUATION BLANKETS
B5 8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES
B6 SAME AS B5 WITH SOUND ATTENUATION BLANKETS



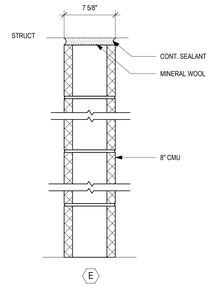
C

C1 2-1/2" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
C2 SAME AS C1 WITH SOUND ATTENUATION BLANKETS
C3 3-5/8" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
C4 SAME AS C3 WITH SOUND ATTENUATION BLANKETS
C5 6" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
C6 SAME AS C5 WITH SOUND ATTENUATION BLANKETS
C7 8" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
C8 SAME AS C7 WITH SOUND ATTENUATION BLANKETS
C9 2 1/2" STUD WITH ONE LAYER 3/4" PLYWOOD & ONE LAYER OF GWB. ON ONE SIDE



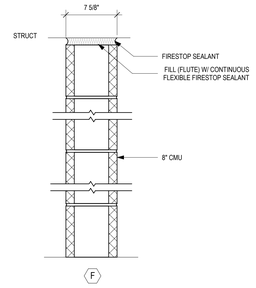
D

D1 2-1/2" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
D2 SAME AS D1 WITH SOUND ATTENUATION BLANKETS
D3 3-5/8" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
D4 SAME AS D3 WITH SOUND ATTENUATION BLANKETS
D5 6" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE
D6 SAME AS D5 WITH SOUND ATTENUATION BLANKETS
D7 1-5/8" MTL. STUD AT 16" O.C. WITH GWB. ONE SIDE



E

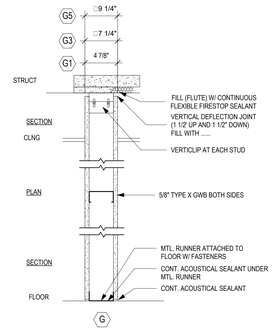
E1 8" NOM. CMU TO STRUCTURE
E2 12" NOM. CMU TO STRUCTURE



F

★F1 8" NOM. CMU TO STRUCTURE

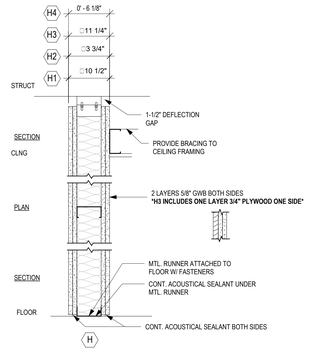
***FOR RATED WALL SEE G0.02**



G

G1 3-5/8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
G2 SAME AS G1 WITH SOUND ATTENUATION BLANKETS
G3 6" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
G4 SAME AS G3 WITH SOUND ATTENUATION BLANKETS
G5 8" MTL. STUD AT 16" O.C. WITH GWB. BOTH SIDES TO STRUCTURE
G6 SAME AS G5 WITH SOUND ATTENUATION BLANKETS

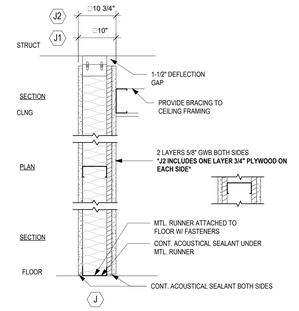
UL U419



H

H1 8" MTL. STUD AT 16" O.C. WITH 2 LAYERS GWB. EACH SIDE AND SOUND ATTENUATION BLANKETS
H2 2-1/2" MTL. STUD AT 16" O.C. WITH 2 LAYERS GWB. EACH SIDE AND SOUND ATTENUATION BLANKETS
H3 8" STUD (SOUND BATTS) WITH 2 LAYERS OF GWB. ON ONE SIDE & ONE LAYER OF 3/4" PLYWOOD & TWO LAYERS OF GWB. ON OTHER SIDE
H4 3-5/8" MTL. STUD AT 16" O.C. WITH 2 LAYERS GWB. EACH SIDE AND SOUND ATTENUATION BLANKETS

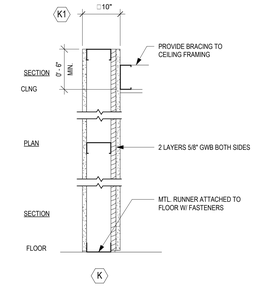
PLYWOOD IS ALWAYS LOCATED ON GALLERY FACING SIDE OF PARTITION*



J

J1 8" MTL. STUD MTL. STUD WITH 1 LAYER OF GWB. ON ONE SIDE & ONE LAYER OF 3/4" PLYWOOD WITH 1 LAYER OF GWB. ON OTHER SIDE AND SOUND ATTENUATION BLANKETS.
J2 8" MTL. STUD WITH 3/4" PLYWOOD & 1 LAYER OF GWB. ON EACH SIDE.

PLYWOOD IS ALWAYS LOCATED ON GALLERY FACING SIDE OF PARTITION*



K

K1 8" MTL. STUD MTL. STUD WITH 1 LAYER OF GWB. ON ONE SIDE & ONE LAYER OF 3/4" PLYWOOD WITH 1 LAYER OF GWB. ON OTHER SIDE..

PLYWOOD IS ALWAYS LOCATED ON GALLERY FACING SIDE OF PARTITION*

PARTITION TYPES
1 1/2" = 1'-0" **E6**

GENERAL NOTES

1. REFER TO BUILDING AND WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

2. REFER TO LIFE SAFETY PLAN FOR ALL FIRE RATED AND SMOKE RATED PARTITION LOCATIONS.

3. FIRE RATED INTERIOR PARTITIONS NOTED WITH FIRE RATING 1HR, ETC. INDICATES THAT THE PARTITION SHALL BE CONSTRUCTED TO MEET THAT FIRE RATING AS INDICATED ON LIFE SAFETY DRAWINGS. THE PARTITION SHALL EXTEND FROM STRUCTURAL SLAB TO THE UNDERSIDE OF THE RATED FLOOR OR CEILING ASSEMBLY. ALL JOINTS AND PENETRATIONS SHALL BE FIRE SEALED. THE CONTRACTOR SHALL MAINTAIN ALL RATED WALLS AS SHOWN ON LIFE SAFETY DRAWINGS.

4. ALL MTL. STUD PARTITIONS AND FURRING SHALL EXTEND A MIN. OF 6" ABOVE FINISH CEILING UNLESS NOTED OTHERWISE. BRACE TO STRUCTURE OR OTHER WALLS FOR STABILITY. TOP OF ALL WALLS ARE TO BE ENCLOSED AT FLOOR DECK OR CAPPED WITH TOP TRACK TO AVOID WALL AS OPEN VERTICAL CHASE. WHERE WALL SHEATHING DIFFERS IN HEIGHT ON EACH SIDE OF THE PARTITION, THE WALL SHALL BE CONSTRUCTED AND BRACED AS A WALL WITH A KNEE WALL ABOVE THE LOWEST SHEATHING, ALTERNATELY, SHEATHING CAN BE BROUGHT TO SAME HEIGHT ON EACH SIDE OF STUD AND CAPPED WITH TOP TRACK TO AVOID SHAFT CONDITION.

5. PARTITIONS NOTED AS INCLUDING SOUND ATTENUATION BLANKETS SHALL HAVE 3" SOUND ATTENUATION BATTS U.N.O. PROVIDE ACOUSTICAL SEALANT CONTINUOUSLY ALONG BOTTOM TRACK AND AT ALL PENETRATIONS AND OUTLETS.

6. WHERE SOUND ATTENUATION BLANKETS ARE INDICATED AT PLUMBING CHASES, PIPE CHASES, OR SIMILAR CONDITION, PROVIDE SOUND BATTS ON ONE SIDE ONLY (IN FULL HEIGHT OR TALLER PARTITION IF APPLICABLE.)

7. 6" INTERIOR METAL STUDS TO BE 16" O.C. U.N.O. 3-5/8" INTERIOR METAL STUDS TO BE 16" O.C. U.N.O. PROVIDE (2) STUDS AT EACH SIDE OF INTERIOR DOORS. PROVIDE AN ADDITIONAL STUD WITHIN 6" ON EACH SIDE OF OPENING.

8. PROVIDE 5/8" TYPE "X" GYPSUM WALLBOARD AT ALL RATED PARTITIONS USING GYP.BD.

9. WHERE GYP.BD. AND METAL STUD PARTITIONS ABUT STRUCTURAL DECK CONSTRUCTION OR VERTICAL STRUCTURAL ELEMENTS, PROVIDE DEFLECTION JOINTS BETWEEN METAL FRAMING AND STRUCTURE AS RECOMMENDED BY MANUFACTURER TO PREVENT TRANSFER OF STRUCTURAL LOADS OR MOVEMENT TO PARTITIONS.

10. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAXIMUM, HORIZONTAL AND VERTICAL. LOCATION SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GYPSUM BOARD CONTROL JOINTS TO BE LOCATED AT DOOR FRAME CORNERS WHERE APPLICABLE. GYPSUM BOARD CONTROL JOINTS IN RATED WALL AND CEILING ASSEMBLIES SHALL BE FIRE RATED OR SHALL HAVE GYPSUM BOARD BACKING PANELS PER U.L. REQUIREMENTS.

11. PROVIDE MOISTURE RESISTANT (M.R.) GYPSUM BOARD WHERE INDICATED AND AT THE FOLLOWING LOCATIONS:
-TOILET ROOMS, JANITOR CLOSETS, KITCHENS, DRINKING FOUNTAINS
-ALL PARTITIONS RECEIVING EPOXY PAINT
-ALL PARTITIONS OR CASEWORK WITHIN 5'-0" OF PLUMBING FIXTURES
-ALL EXTERIOR APPLICATIONS

12. PROVIDE CEMENTITIOUS BACKER BOARD WHERE INDICATED, AND AT THE FOLLOWING LOCATIONS: ALL PARTITIONS WITH CERAMIC WALL TILE, EXCEPT CMU.

13. PROVIDE STENCILED LABELS VISIBLE ABOVE CEILINGS ON WALLS WHICH ARE RATED PARTITIONS, SMOKESTOP PARTITIONS, HORIZONTAL EXIT PARTITIONS, AND RATED CORRIDORS. STENCILED LABEL SHALL BE 3" HIGH RED LETTERING.

15. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

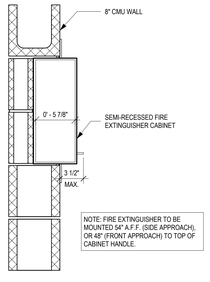
16. ALL RATED WALLS TO BE SEALED TO FLOOR SLAB.

17. AT EDGE OF RECESSED SLABS, WALL WILL TERMINATE ON HIGH SIDE OF STEP, U.N.O.

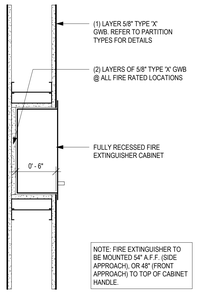
18. ALL CEILINGS AND BULKHEADS TO RECEIVE 5/8" GYP.BD. U.N.O. OR AT RATED CONDITIONS.

19. PROVIDE MASONRY CONTROL JOINTS AT 25'-0" O.C. MAXIMUM. LOCATION SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION IF NOT SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.

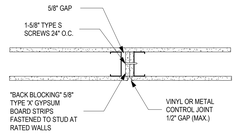
20. NOTE THAT SOME WALLS TO DECK MAY ALSO BE WALLS TO INTERMEDIATE DECKS, NOT JUST ROOF DECK.



PARTIALLY RECESSED CMU FEC DETAIL
1 1/2" = 1'-0" **A12**



FULLY RECESSED FEC DETAIL
1 1/2" = 1'-0" **A9**

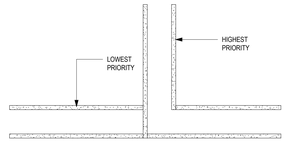


NOTE: REFER TO PARTITION TYPE FOR TYPE AND NUMBER OF GWB. LAYERS

PROVIDE CONTROL JOINTS IN FACE LAYER OF GYPBOARD AS FOLLOWS:

- AS INDICATED OR SCHEDULED ELSEWHERE.
- AT CHANGES IN BACKUP OR SUBSTRATE MATERIAL
- IN CONTINUOUS GYPSUM BOARD PARTITIONS AND CEILINGS WHICH EXTEND IN ANY DIRECTION MORE THAN AT 30'-0" WITHOUT BREAK OR CHANGE IN PLANE. LOCATE 30'-0" O.C. MAX.
- WHERE DRYWALL CEILING OR SOFFIT ABUTTS PARTITION, EXTEND CONTINUOUS HORIZONTALLY AND VERTICALLY.
- HORIZONTAL IN EACH STAIRWELL AT FLOOR LINE.
- PROVIDE GYPBOARD BACKING AT CONTROL JOINTS IN RATED ASSEMBLIES AS DETAILED IN GYPSUM ASSOC. FIRE RESISTANCE DESIGN MANUAL.
- ALL LOCATION SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. LOCATE AT CORNER OF DOOR FRAMES WHERE PRACTICAL.

CJ DETAIL
1 1/2" = 1'-0" **A6**



WALL PRIORITY LEGEND	
2 HOUR FIRE & SMOKE WALL	PRIORITY 1 (HIGHEST)
2 HOUR FIRE WALL	PRIORITY 2
2 HOUR SHAFT WALL	PRIORITY 2
1 HOUR FIRE & SMOKE WALL	PRIORITY 3
1 HOUR FIRE WALL	PRIORITY 4
NON-RATED WALL	PRIORITY 5

REFER TO LIFE SAFETY PLAN FOR LOCATIONS OF FIRE RATED WALLS

WALL PRIORITY LEGEND
1 1/2" = 1'-0" **A3**

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PARTITION TYPES

A1.02

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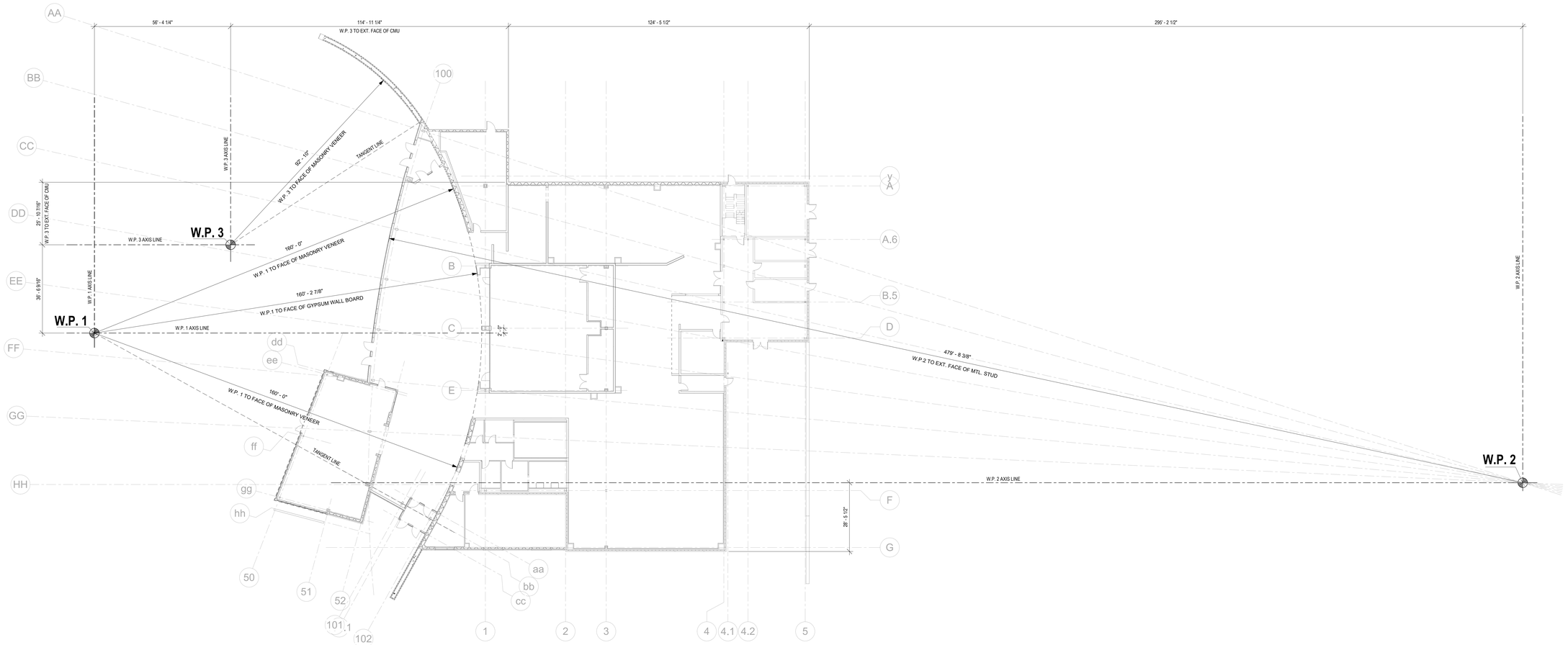

WORK POINTS PLAN
1/16" = 1'-0"

A1

PLAN NORTH

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WORK POINTS PLAN

A2.00

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FLOOR PLAN GENERAL NOTES

1. SEE CODE SUMMARY AND APPENDIX B FOR CODES APPLICABLE TO THE PROJECT.
2. ALL INTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH INTERIOR WALLS, FACE OF CONCRETE OR MASONRY WALLS, AND CENTER LINE OF COLUMNS, UNLESS OTHERWISE NOTED. ALL EXTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD OR FACE OF SHEATHING, U.N.O.
3. REFER TO LIFE SAFETY DRAWINGS FOR ANY FIRE RESISTANCE REQUIREMENTS FOR PARTITIONS.
4. REFER TO SHEET A1.02 FOR FIRE EXTINGUISHER CABINET DETAILS. FOR F.E.C. RECESSED AND SEMI-RECESSED, COORDINATE FIRE RATED & NON-RATED BOXES WITH ALLOWABLE ROOM AT EACH LOCATION. COORDINATE HAZARD RATINGS & TYPE OF EXTINGUISHERS.
5. SEE ENLARGED PLANS FOR SPECIFIC INFORMATION REGARDING DIMENSIONS, ROOM FINISHES, DOOR SCHEDULES, AND DETAILS.
6. PLANS MAY BE ROTATED FOR CLARITY. REFER TO NORTH ARROWS FOR ORIENTATION.
7. REFER TO STRUCTURAL DRAWINGS FOR LOAD-BEARING WALL LOCATIONS, STUD SPACING AND HEADER REQUIREMENTS.
8. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAX. LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GYPSUM BOARD CONTROL JOINTS TO BE LOCATED AT DOOR FRAME CORNERS WHERE APPLICABLE. CONTROL JOINTS IN RATED WALL AND CEILING ASSEMBLIES TO HAVE GYPSUM BOARD BACKING PANELS PER U.L. REQUIREMENTS.
9. REFER TO CIVIL AND STRUCT. DRAWINGS FOR ADDITIONAL INFORMATION AND UTILITY PADS FOR EQUIPMENT.
10. COORDINATE MASONRY CONTROL JOINTS (MCJ) SHOWN IN PLAN AND ELEVATION WITH VENEER COURSING.
11. COORDINATE MCJ LOCATIONS WITH STRUCTURAL TO IDENTIFY WHICH JOINTS ARE TO BE CONTINUED TO THE BACKUP CMU.
12. PRECAST PANELS DIMENSIONED TO CENTERLINE OF JOINTS. JOINTS ARE 3/4" TYPICAL.
13. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES AND CASEWORK AT ADJACENT MATERIAL TRANSITIONS.
14. MAINTAIN FIRE RATING OF CONSTRUCTION AROUND ALL CASEWORK, ACCESS PANELS, AND BOXES THAT ARE RECESSED IN FIRE RATED WALLS, FLOORS AND CEILING ASSEMBLIES.
15. COORDINATE LOCATION OF FLOOR BOXES WITH STRUCTURAL SLAB, ELECTRICAL AND A/V INFRASTRUCTURE PLANS. GC TO COORDINATE RECESSES IN SLAB BEFORE CONCRETE POUR.
16. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB, UNO.
17. FIELD MEASURE AND CONFIRM DIMENSIONS FOR ALL OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OWNER PROVIDED / CONTRACTOR INSTALLED ITEMS. MINIMUM REQUIRED OPENINGS AND ADA ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
18. REFER TO ADDITIONAL DRAWING SHEETS IN CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

FLOOR PLAN KEYED NOTES

01 NOT USED
02 OPERABLE PARTITION SHOWN IN DEPLOYED CONDITION; REFER TO ENLARGED PLAN AS INDICATED FOR STORED CONFIGURATION
03 COMPACT STORAGE SYSTEM - NIC
04 RECESSED WALK OFF MAT, COORDINATE SLAB RECESS W/ STRUCTURAL
05 ADA PUSH BUTTON WALL MOUNT
06 ALTERNATE TO ADD STOREFRONT TO THIS AREA. COORDINATE WITH STRUCTURAL.
07 ENTRY SIGN
08 OPERABLE DOOR WITHIN ACCOUSTICAL PARTITION. PROVIDE PANIC HARDWARE AND EXIT SIGN
09 RECEPTION DESK, SEE INTERIOR DESIGN DRAWINGS FOR MILLWORK DETAILS
10 DOCK LEVELER
11 CAST IN PLACE CONCRETE STAIR
12 BOLLARD
13 HIGH LOW DRINKING FOUNTAIN
14 DRINKING FOUNTAIN W/ BOTTLE FILLER
15 REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX LOCATIONS.

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1ST FLOOR PLAN

A2.01

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TRUE NORTH

1ST FLOOR PLAN
1/8" = 1'-0"
A3

ROOF PLAN GENERAL NOTES

1. ROOF LEADERS TO BE INSULATED.
2. PRIMARY ROOF LEADERS TO BE COLLECTED AND TIED INTO STORM SEWER. REFER TO CIVIL DRAWINGS FOR ADDITIONAL NOTES. OVERFLOW LEADERS TO BE OUTLET ABOVE GRADE IN VISIBLE LOCATION.
3. PENETRATION DETAILS SHOWN ARE TO BE APPROVED BY ROOFING MANUFACTURE.
4. ROOFING DETAILS TO COMPLY WITH THE LATEST EDITION OF SMACNA & NRCA MANUAL.
5. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF ACOUSTICAL ROOF DECK.
6. WIND UPLIFT RATING (ALL ROOFS), FIELD - 120 PSF.

ROOF LEGEND

O.R.D. - OVERFLOW ROOF DRAIN

R.D. - ROOF DRAIN

HATCHED AREAS DENOTE 1/4" PER FOOT CRICKETING

HATCHED AREAS DENOTE WALKWAY PROTECTION MEMBRANE

ROOF KEYED NOTES

R01 CAGED ROOF LADDER
R02 ROOF HATCH
R03 ON CURB RTU, SEE MECHANICAL DRAWINGS
R04 PREFIN ALUM COPING - COLOR TO MATCH ADJACENT WALL SURFACE/CLADDING
R05 STANDING SEAM METAL ROOF
R06 PREFIN ALUM GUTTER AND DOWNSPOUT
R07 ROOF ANCHORS. ALIGN WITH BEAM BELOW (SEE STRUCTURAL).
R08 PORTABLE LADDER ACCESS ROUTE

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2ND FLOOR AND LOW ROOF PLAN

A2.02

ISSUE DATE: 08-01-2023
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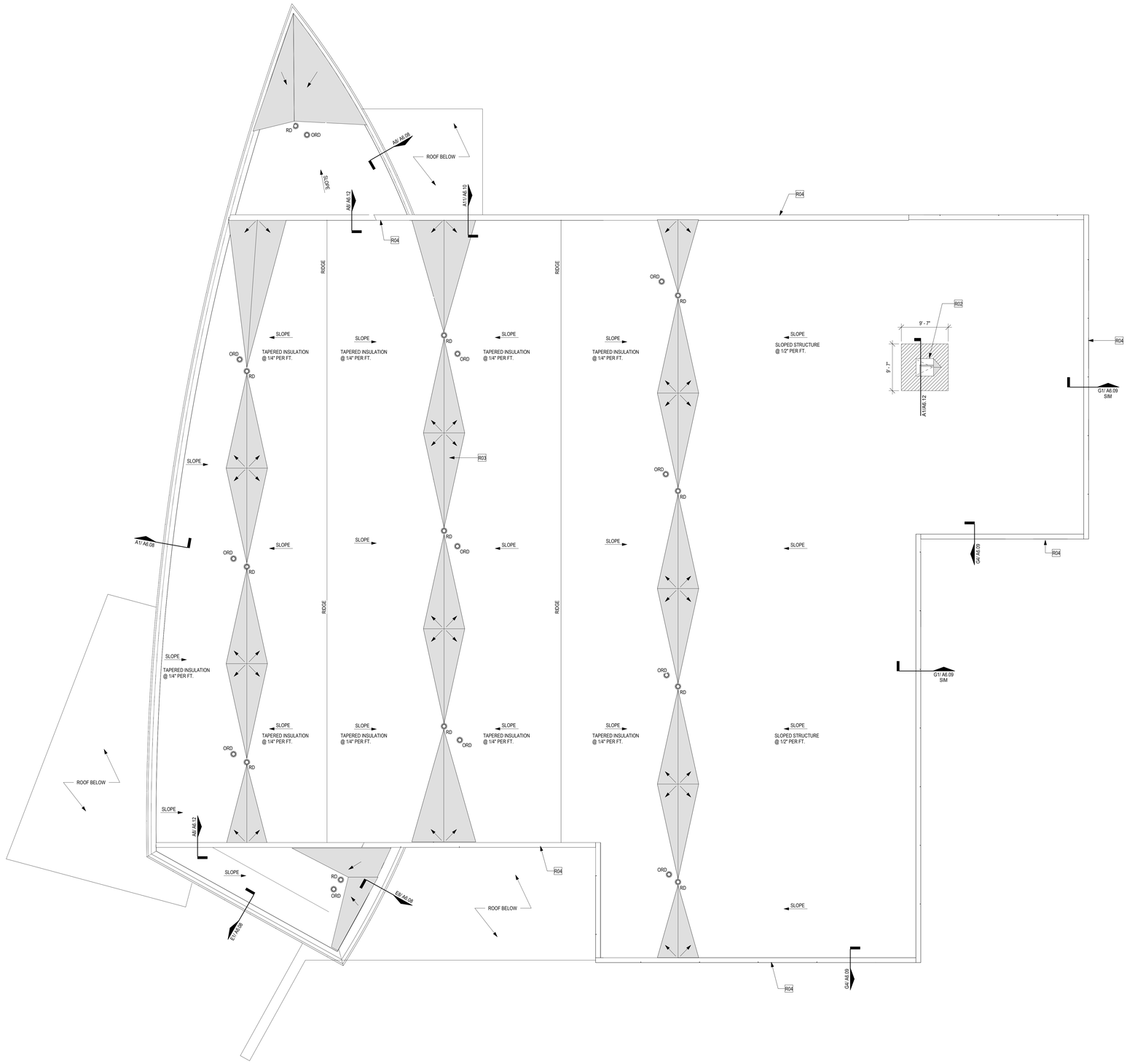
PLAN NORTH

2ND FLOOR PLAN / LOW ROOF PLAN
1/8" = 1'-0"
A3



ROOF PLAN GENERAL NOTES

1. ROOF LEADERS TO BE INSULATED.
2. PRIMARY ROOF LEADERS TO BE COLLECTED AND TIED INTO STORM SEWER, REFER TO CIVIL DRAWINGS FOR ADDITIONAL NOTES. OVERFLOW LEADERS TO BE OUTLET ABOVE GRADE IN VISIBLE LOCATION.
3. PENETRATION DETAILS SHOWN ARE TO BE APPROVED BY ROOFING MANUFACTURE.
4. ROOFING DETAILS TO COMPLY WITH THE LATEST EDITION OF SMACNA & NRCA MANUAL.
5. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF ACOUSTICAL ROOF DECK.
6. WIND UPLIFT RATING (ALL ROOFS), FIELD - 120 PSF.

ROOF LEGEND

O.R.D. - OVERFLOW ROOF DRAIN

R.D. - ROOF DRAIN

HATCHED AREAS DENOTE 1/4" PER FOOT CRICKETING

HATCHED AREAS DENOTE WALKWAY PROTECTION MEMBRANE

ROOF KEYED NOTES

R01 CAGED ROOF LADDER

R02 ROOF HATCH

R03 ON CURB RTU, SEE MECHANICAL DRAWINGS

R04 PREFIN ALUM COPING - COLOR TO MATCH ADJACENT WALL SURFACE/CLADDING

R05 STANDING SEAM METAL ROOF

R06 PREFIN ALUM GUTTER AND DOWNSPOUT

R07 ROOF ANCHORS. ALIGN WITH BEAM BELOW (SEE STRUCTURAL).

R08 PORTABLE LADDER ACCESS ROUTE

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HIGH ROOF PLAN

A2.03

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PLAN NORTH

HIGH ROOF PLAN A3
1/8" = 1'-0"

RCP GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES. SEE CODE SUMMARY OR APPENDIX B FOR ADDITIONAL INFORMATION.
2. CEILING HEIGHTS SHALL BE 9'-0" A.F.F UNLESS NOTED OTHERWISE. CEILING FINISH SHALL BE SMOOTH PAINTED, UNLESS NOTED OTHERWISE.
3. REFER TO ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED DEVICES, LIGHTS, AND EXIT SIGNS.
4. PROVIDE ACCESS PANELS IN GWB. CEILINGS AS REQUIRED BY PLUMBING, FIRE PROTECTION, ELECTRICAL, AND MECHANICAL DRAWINGS.
5. A FIRE RATED SUB-CEILING IS ATTACHED TO THE UNDERSIDE OF ALL FLOOR AND CEILING ASSEMBLIES. CEILING FINISHES SHOWN SHALL BE SUSPENDED BELOW THIS FIRE CEILING UNLESS NOTED OTHERWISE. UNIT CEILINGS SHALL BE THE FIRE RATED SUB-CEILING.
6. PROVIDE A FIRE RATED GYPSUM WALLBOARD ENCLOSURE AT RECESSED DOWN LIGHTS IN FIRE RATED CEILINGS.
7. CENTER ACOUSTICAL CEILING TILE IN CORRIDORS AND ROOMS UNLESS NOTED OTHERWISE. ACOUSTICAL TILE SHOULD BE NO LESS THAN 6" WIDE. USE AN OVERSIZED TILE CUT FROM A 2X4 TILE WHEN NECESSARY TO ENSURE A TILE IS NO LESS THAN 6" IN A 2X2 GRID.
8. CENTER LIGHTS, SPRINKLER HEADS, ETC. WITHIN CEILING TILE, UNLESS NOTED OTHERWISE.
9. G.C. SHALL COORDINATE HEIGHT OF ALL SUSPENDED FIXTURES WITH ARCHITECT ON SITE PRIOR TO FINAL INSTALLATION.

RCP KEYED NOTES

C01 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)
C02 MANUAL ROLLER SHADE (HATCHED FOR CLARITY)
C03 SUSPENDED ACRYLIC PANELS TO RECEIVE CAMPAIGN COLOR BARS PATTERNING (BY EXHIBIT DESIGNER). SUSPENDED BEHIND HIGH LEVEL CURTAIN WALL AT WEST FACADE ONLY
C04 MOTORIZED SUNSHADE AT +29'-0" AFF (HATCHED FOR CLARITY)
C05 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)
C06 PROVIDE LEVEL 5 GYP. BD. FINISH.
C07 EXPOSED STRUCTURE
C08 LINE OF ROOF SOFFIT ABOVE
C09 REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN, DETAILS & LIGHTING LAYOUTS.
C10 ROOF LADDER
C11 SUSPENDED DECORATIVE CEILING CLOUD, PROVIDE LEVEL 5 GYP. BD. FINISH.
C12 ACOUSTICAL PLASTER AND FIBERGLASS BOARD, REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN.
C13 10'-0" X10'-0" UNISTRUT GRID SYSTEM (SEE STRUCTURAL)

CEILING LEGEND

- GYPSUM WALL BOARD
- 2' x 2' ACT, SEE I-SHEETS FOR BASIS OF DESIGN SPECIFICATIONS AND LOCATIONS
- 8" x 8" OPEN CELL CEILING, SEE I-SHEETS FOR BASIS OF DESIGN AND LOCATIONS
- SUN SHADE (HATCHED FOR CLARITY)
- LINE INDICATING SUSPENDED ACRYLIC PANELS TO RECEIVE CAMPAIGN COLOR BARS PATTERNING (BY EXHIBIT DESIGNER).
- MECHANICAL SUPPLY, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- MECHANICAL SUPPLY, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- MECHANICAL RETURN, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- OCCUPANCY SENSOR, SEE E-SHEETS FOR SPEC'S AND LOCATIONS
- EXIT SIGN, SEE E-SHEETS FOR SPEC'S AND LOCATIONS

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1ST FLOOR REFLECTED CEILING PLAN

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ISSUE DATE: 08-01-2023
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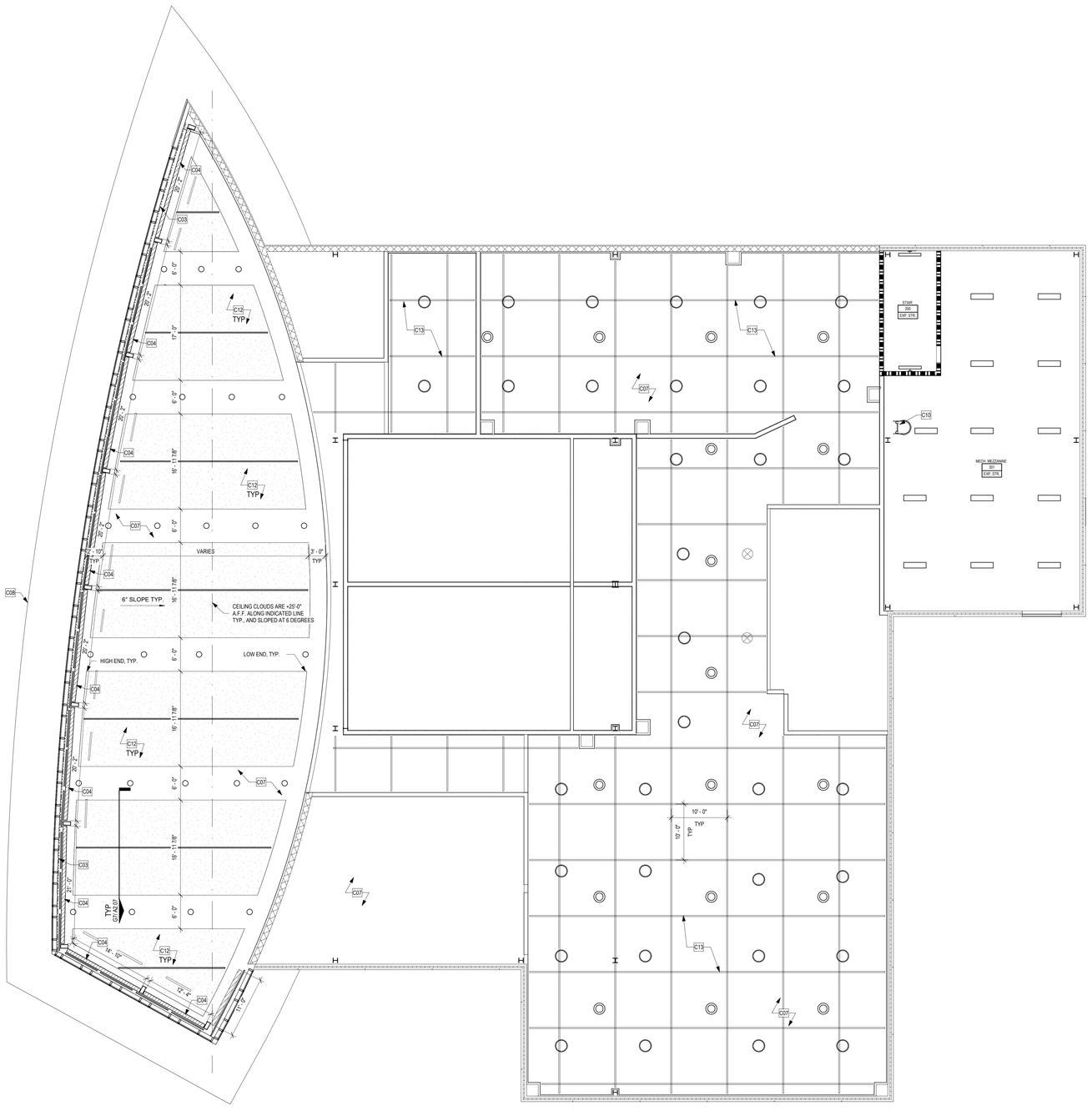
PLAN NORTH

1ST FLOOR REFLECTED CEILING PLAN A3
1/8" = 1'-0"



RCP GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES. SEE CODE SUMMARY OR APPENDIX B FOR ADDITIONAL INFORMATION.
2. CEILING HEIGHTS SHALL BE 9'-0" A.F.F UNLESS NOTED OTHERWISE. CEILING FINISH SHALL BE SMOOTH PAINTED, UNLESS NOTED OTHERWISE.
3. REFER TO ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED DEVICES, LIGHTS, AND EXIT SIGNS.
4. PROVIDE ACCESS PANELS IN GWB. CEILINGS AS REQUIRED BY PLUMBING, FIRE PROTECTION, ELECTRICAL, AND MECHANICAL DRAWINGS.
5. A FIRE RATED SUB-CEILING IS ATTACHED TO THE UNDERSIDE OF ALL FLOOR AND CEILING ASSEMBLIES. CEILING FINISHES SHOWN SHALL BE SUSPENDED BELOW THIS FIRE CEILING UNLESS NOTED OTHERWISE. UNIT CEILINGS SHALL BE THE FIRE RATED SUB-CEILING.
6. PROVIDE A FIRE RATED GYPSUM WALLBOARD ENCLOSURE AT RECESSED DOWN LIGHTS IN FIRE RATED CEILINGS.
7. CENTER ACOUSTICAL CEILING TILE IN CORRIDORS AND ROOMS UNLESS NOTED OTHERWISE. ACOUSTICAL TILE SHOULD BE NO LESS THAN 6" WIDE. USE AN OVERSIZED TILE CUT FROM A 2X4 TILE WHEN NECESSARY TO ENSURE A TILE IS NO LESS THAN 6" IN A 2X2 GRID.
8. CENTER LIGHTS, SPRINKLER HEADS, ETC. WITHIN CEILING TILE, UNLESS NOTED OTHERWISE.
9. G.C. SHALL COORDINATE HEIGHT OF ALL SUSPENDED FIXTURES WITH ARCHITECT ON SITE PRIOR TO FINAL INSTALLATION.

RCP KEYED NOTES

C01 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)

C02 MANUAL ROLLER SHADE (HATCHED FOR CLARITY)

C03 SUSPENDED ACRYLIC PANELS TO RECEIVE CAMPAIGN COLOR BARS PATTERNING (BY EXHIBIT DESIGNER). SUSPENDED BEHIND HIGH LEVEL CURTAIN WALL AT WEST FACADE ONLY

C04 MOTORIZED SUNSHADE AT +29'-0" AFF (HATCHED FOR CLARITY)

C05 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)

C06 PROVIDE LEVEL 5 GYP. BD. FINISH.

C07 EXPOSED STRUCTURE

C08 LINE OF ROOF SOFFIT ABOVE

C09 REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN, DETAILS & LIGHTING LAYOUTS.

C10 ROOF LADDER

C11 SUSPENDED DECORATIVE CEILING CLOUD, PROVIDE LEVEL 5 GYP. BD. FINISH.

C12 ACOUSTICAL PLASTER AND FIBERGLASS BOARD, REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN.

C13 10'-0" X10'-0" UNISTRUT GRID SYSTEM (SEE STRUCTURAL)

CEILING LEGEND

- GYPSUM WALL BOARD
- 2' x 2' ACT, SEE I-SHEETS FOR BASIS OF DESIGN SPECIFICATIONS AND LOCATIONS
- 8" x 8" OPEN CELL CEILING, SEE I-SHEETS FOR BASIS OF DESIGN AND LOCATIONS
- SUN SHADE (HATCHED FOR CLARITY)
- LINE INDICATING SUSPENDED ACRYLIC PANELS TO RECEIVE CAMPAIGN COLOR BARS PATTERNING (BY EXHIBIT DESIGNER).
- MECHANICAL SUPPLY, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- MECHANICAL SUPPLY, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- MECHANICAL RETURN, SEE M-SHEETS FOR SPEC'S AND LOCATIONS
- OC OCCUPANCY SENSOR, SEE E-SHEETS FOR SPEC'S AND LOCATIONS
- EXIT SIGN, SEE E-SHEETS FOR SPEC'S AND LOCATIONS

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2ND FLOOR REFLECTED CEILING PLAN

A2.05

ISSUE DATE: 08-01-2023
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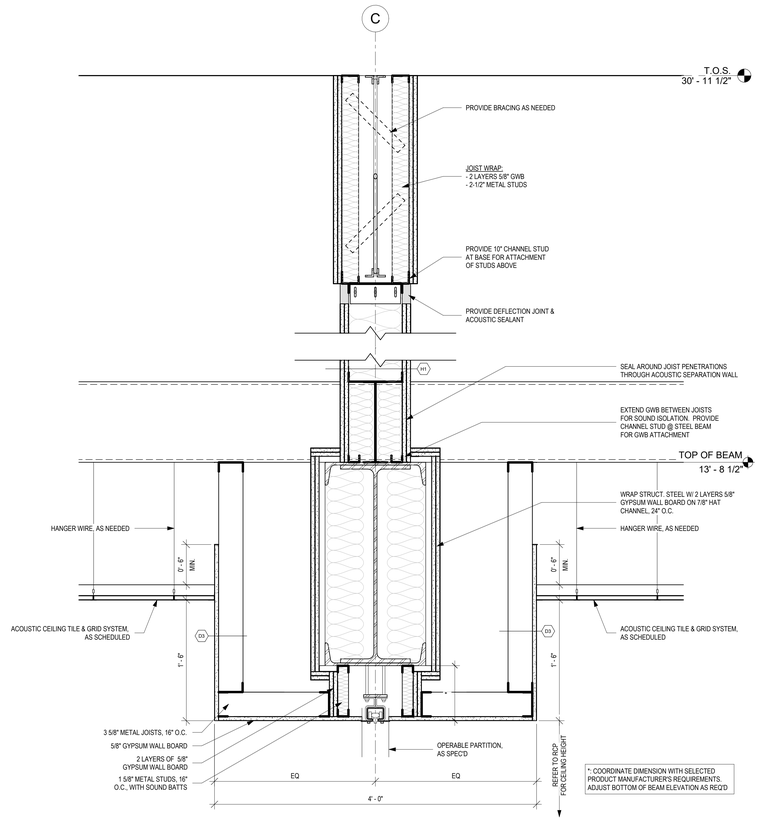
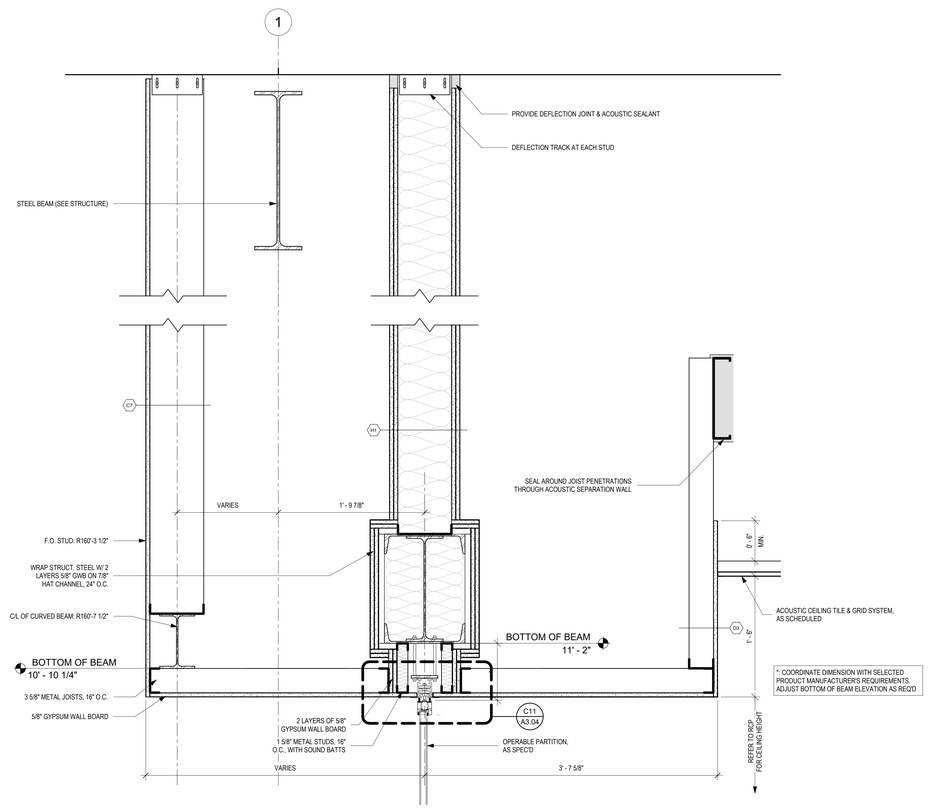
DRAWN BY: Author
CHECKED BY: Checker

PLAN NORTH

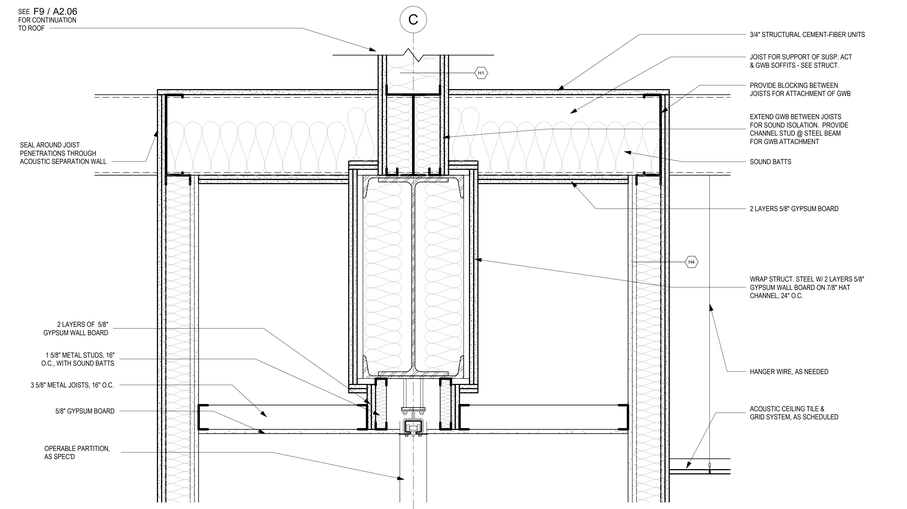
2ND FLOOR REFLECTED CEILING PLAN **A3**
1/8" = 1'-0"



CEILING DETAIL @ E/W OPERABLE PARTITION **F9**
1 1/2" = 1'-0"



CEILING DETAIL @ N/S OPERABLE PARTITION **A9**
1 1/2" = 1'-0"



CEILING DETAIL @ OPERABLE PARTITION ALCOVE **3H**
1 1/2" = 1'-0"

1ST FLOOR CEILING FRAMING PLAN **A1**
3/32" = 1'-0"

CEILING FRAMING LEGEND & NOTES

1. HEIGHTS INDICATED ON THIS PLAN ARE FOR SUPPORT FRAMING ABOVE CEILING FINISH. REFER TO REFLECTED CEILING PLAN FOR CEILING FINISH HEIGHTS
2. REFER TO STRUCT. DRAWINGS FOR JOIST SIZING, SPACING, AND SPAN ORIENTATION
3. HATCHED BOUNDARIES INDICATE EXTENT AND BEARING LOCATION OF FRAMING. REFER TO DETAILS AND STRUCT. DRAWINGS FOR ADDITIONAL INFORMATION.

T/O JOIST: TOP OF JOIST, ABOVE 1ST FLOOR
B/O JOIST: BOTTOM OF JOIST, ABOVE 1ST FLOOR

T/O DECK: TOP OF STRUCTURAL DECK, ABOVE 1ST FLOOR

GYPSUM WALL BOARD FINISH, DIRECT APPLIED TO B/O JOISTS. NO TOP MEMBRANE

JOIST FRAMING ABOVE SUSPENDED FINISH CEILING. NO TOP MEMBRANE

FIRE-RATED HORIZ. ASSEMBLY - SEE LIFE SAFETY PLAN FOR ADDITIONAL INFORMATION

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FRAMED CEILING DIAGRAM & CEILING DETAILS

A2.06

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
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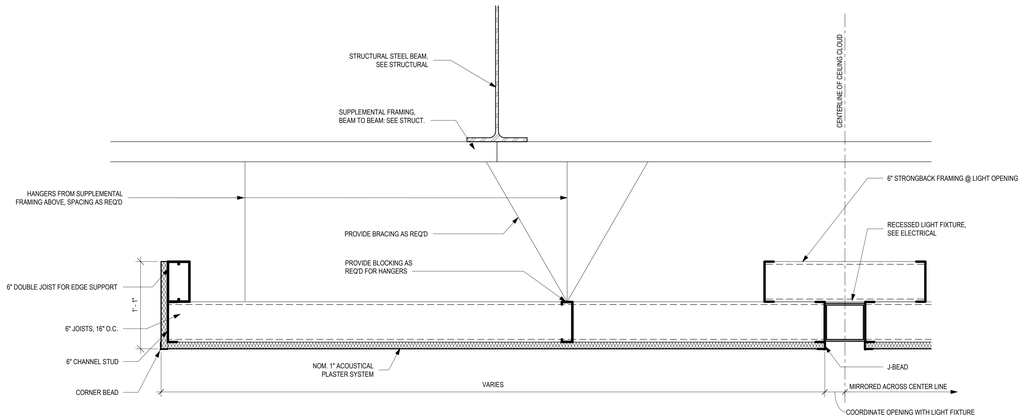
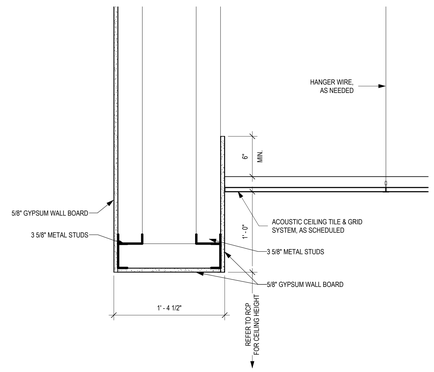
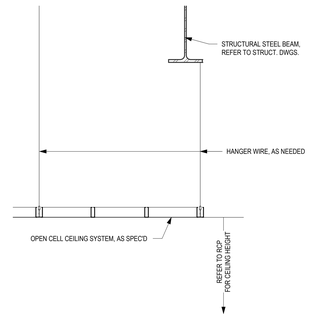


CEILING DETAIL @ SLOPED CLOUD **G7**
1 1/2" = 1'-0"



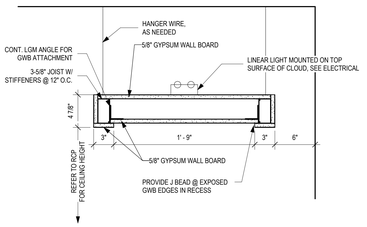
CEILING DETAIL @ KITCHEN SOFFIT **G4**
1 1/2" = 1'-0"



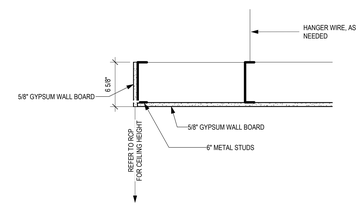
CEILING DETAIL @ OPEN CELL CLNG EDGE **G1**
1 1/2" = 1'-0"

CEILING DETAIL @ TOILET BULKHEAD **D11**
1 1/2" = 1'-0"

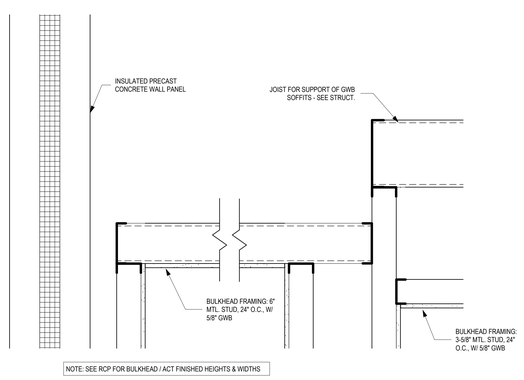
CEILING DETAIL @ CURVED WALL EDGE **D7**
1 1/2" = 1'-0"



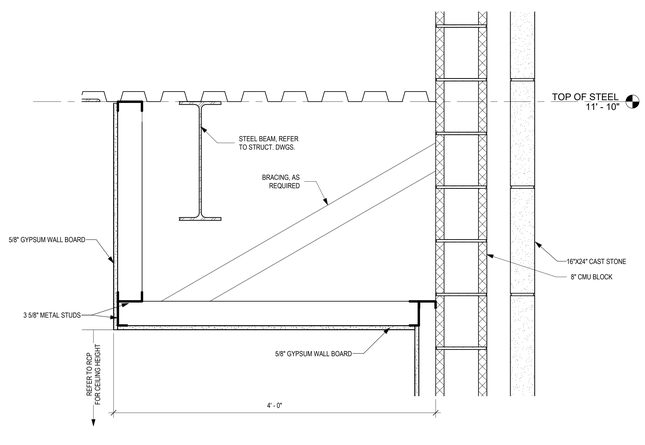
CEILING DETAIL @ VANITY CLOUD **D4**
1 1/2" = 1'-0"



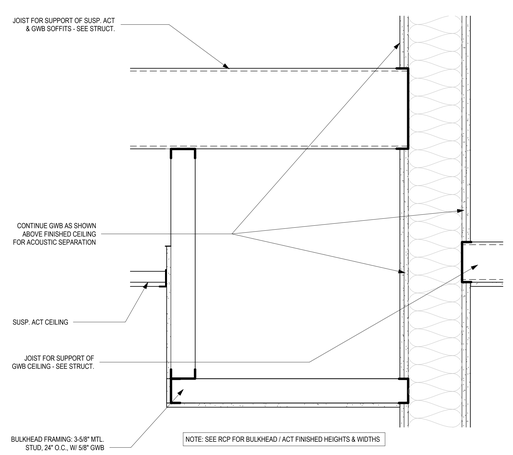
TYP CEILING DETAIL @ GYP CLOUD EDGE **D1**
1 1/2" = 1'-0"



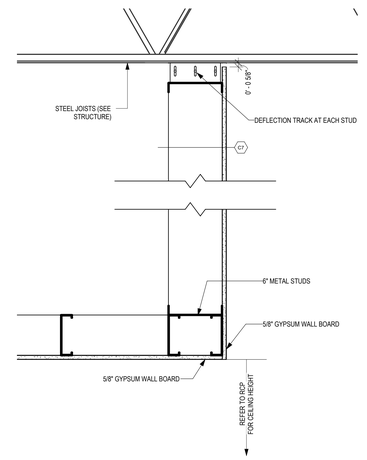
CLNG DTL @ TOILET BULKHEAD (HIGH - LOW) **A12**
1 1/2" = 1'-0"



CEILING DETAIL @ GWB SOFFIT @ CMU **A7**
1 1/2" = 1'-0"



CEILING DETAIL @ GWB TO ACT **A4**
1 1/2" = 1'-0"



TYP CEILING DETAIL @ GWB SOFFIT **A1**
1 1/2" = 1'-0"

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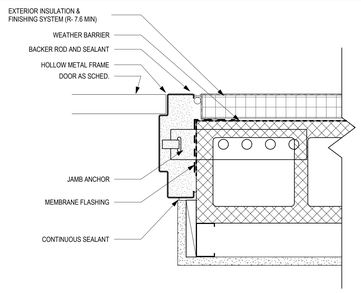
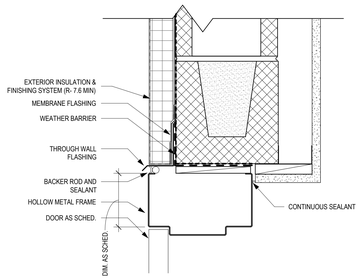


HM JAMB DETAIL @ EIFS EXTERIOR **I12**
3" = 1'-0"



HM HEAD DETAIL @ EIFS EXTERIOR **I10**
3" = 1'-0"

DOOR SCHEDULE

DOOR ID	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR MAT'L	DOOR TYPE	DOOR FINISH	DOOR FIRE RATING	FRAME MAT'L	FRAME TYPE	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	REMARKS	HARDWARE
1st FLOOR																
100A	STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A		60 MIN.	HM	F2		C12/A3.01	E3/A3.01		5	REFER TO SPECS.
100B	STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A			HM	F1		E10/A3.01	E12/A3.01		5	REFER TO SPECS.
101A	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
101B	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
101C	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04		1, 5	REFER TO SPECS.
101D	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04		1, 5	REFER TO SPECS.
102A	GREAT HALL	3' - 6"	7' - 5 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F8/A3.04	F10/A3.04	F12/A3.04		REFER TO SPECS.
102B	GREAT HALL	3' - 6"	7' - 5 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F8/A3.04	F10/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
103	GREAT HALL	3' - 0"	7' - 6 1/4"	0' - 1 3/4"	AL/GL	D			AL	F4		H1/A3.04	F6/A3.04		1, 5	REFER TO SPECS.
103C	CAFE	12' - 0"	9' - 0"	0' - 2"	AL	G			AL	F4		A1/A3.04	H4/A3.04		3	REFER TO SPECS.
104	CAFE	6' - 0"	7' - 6 1/4"	0' - 1 3/4"	AL/GL	E			AL	F5		H1/A3.04	F6/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
106	JAN	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
107	CORR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
108	MENS	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
109	FAMILY	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
111	CORR	3' - 6"	7' - 0"	0' - 1 3/4"	WD	F			HM	F1		G10/A3.01	G12/A3.01		4	REFER TO SPECS.
112	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C			HM	F1		G10/A3.01	G12/A3.01		4	REFER TO SPECS.
113	AV	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B			HM	F3		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
115	MEETING ROOM	23' - 10 1/2"	10' - 6"	0' - 2"	AL/GL	H			AL			C11/A3.04	B11/A3.04	A11/A3.04	2, 5	REFER TO SPECS.
116	TABLE STORAGE	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B			HM	F3		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
117	CLASSROOM	23' - 10 1/2"	10' - 6"	0' - 2"	AL/GL	J			AL			C11/A3.04	B11/A3.04	A11/A3.04	2, 5	REFER TO SPECS.
119A	VEST	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4, 5	REFER TO SPECS.
119B	VEST	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A			HM	F1		E10/A3.01	E12/A3.01		5	REFER TO SPECS.
122A	VIEWING ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A		60 MIN.	HM	F2		C12/A3.01	E3/A3.01			REFER TO SPECS.
122B	COLLECTIONS STOR.	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A		60 MIN.	HM	F1		G3/A3.01	G5/A3.01			REFER TO SPECS.
123A	VESTIBULE STAGING	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B		60 MIN.	HM	F6		E5/A3.01	E8/A3.01		4	REFER TO SPECS.
123B	VESTIBULE STAGING	6' - 0"	7' - 0"	0' - 1 3/4"	HM	B			HM	F3		E10/A3.01	E12/A3.01		5	REFER TO SPECS.
124A	ELECTRIC	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A			HM	F1		C12/A3.01	E3/A3.01			REFER TO SPECS.
124B	ELECTRIC	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A			HM	F1		E10/A3.01	E12/A3.01			REFER TO SPECS.
125	EMG. DIST.	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A			HM	F1		C12/A3.01	E3/A3.01			REFER TO SPECS.
126	FIRE PUMP	6' - 0"	7' - 0"	0' - 1 3/4"	HM	B			HM	F3		E10/A3.01	E12/A3.01			REFER TO SPECS.
127	BOILER	6' - 0"	7' - 0"	0' - 1 3/4"	HM	B			HM	F3		E10/A3.01	E12/A3.01			REFER TO SPECS.
128A	WARMING KITCHEN	3' - 0"	7' - 0"	0' - 1 3/4"	WD	A			HM	F1		G3/A3.01	G5/A3.01		4	REFER TO SPECS.
128B	WARMING KITCHEN	3' - 6"	7' - 0"	0' - 1 3/4"	HM	A			HM	F2		I10/A3.01	I12/A3.01			REFER TO SPECS.
129A	VEST	3' - 6"	7' - 5 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F8/A3.04	F10/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
129B	VEST	3' - 6"	7' - 5 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F8/A3.04	F10/A3.04	F12/A3.04	1, 5	REFER TO SPECS.
129C	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04		1, 5	REFER TO SPECS.
129D	VEST	3' - 6"	7' - 1 3/4"	0' - 1 3/4"	AL/GL	D			AL	F4		F4/A3.04	F6/A3.04		1, 5	REFER TO SPECS.
2nd FLOOR																
201	MECH. MEZZANINE	3' - 0"	7' - 0"	0' - 1 3/4"	HM	A		60 MIN.	HM	F1		G3/A3.01	G5/A3.01		5	REFER TO SPECS.

DOOR GENERAL NOTES

1. VERIFY ALL DOORS/HARDWARE/FRAMES ARE IN COMPLIANCE WITH REQUIREMENTS OF THE 2021 IBC AND CURRENT ANSI REQUIREMENTS.
2. DISTANCE FROM BACK SIDE OF HINGE SIDE OF FRAME TO WALL SHALL BE 4" CLEAR, U.N.O. FOR INTERIOR HOLLOW METAL FRAMES. SEE DETAIL THIS SHEET.

DOOR REMARKS

1. CURTAIN WALL / STOREFRONT DOOR - COORDINATE DOOR & FRAME SIZE WITH SURROUNDING CURTAIN WALL FRAMING
2. FOLDING GLASS DOOR SYSTEM (BASIS OF DESIGN: SUNFLEX SF 55 HSW)
3. MOTORIZED OVERHEAD COILING SECURITY GRILLE
4. STAIN GRADE WOOD
5. PROVIDE PANIC HARDWARE

ABBREVIATIONS

HM	HOLLOW METAL
WD	WOOD
AL	ALUMINUM
GL	GLASS
PT	PAINTED
STN	STAINED
SF	STOREFRONT
CW	CURTAINWALL

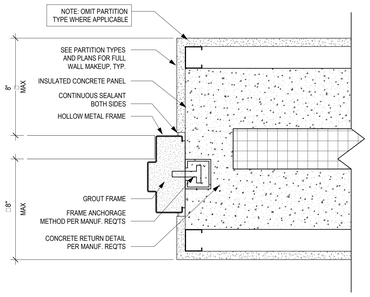
GLAZING TYPES

INSULATING GLASS UNITS

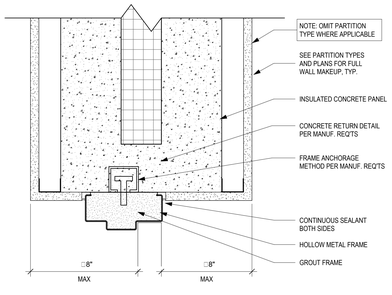
- GL-01 - VISION GLASS, DOUBLE GLAZED. LOW-E, HEAT STRENGTHENED AND LAMINATED.
- GL-02 - VISION GLASS, DOUBLE GLAZED. LOW-E, TEMPERED AND LAMINATED.
- GL-03 - ACID ETCHED, DOUBLE GLAZED. LOW-E, LAMINATED.
- GL-08 - VISION GLASS, DOUBLE GLAZED. LAMINATED.

MONOLITHIC GLASS UNITS

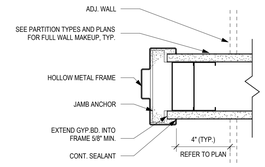
- GL-04 - EXTERIOR GLAZING, VISION GLASS,TEMPERED.
- GL-05 - INTERIOR GLAZING, ACID ETCHED,TEMPERED.
- GL-06 - INTERIOR GLAZING, VISION GLASS,TEMPERED.
- GL-07 - INTERIOR GLAZING, HEAT STRENGTHENED GLASS.



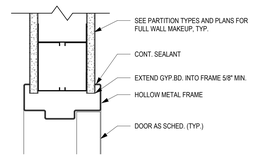
HM JAMB DETAIL @ INT. FURRED PRECAST **G12**
3" = 1'-0"



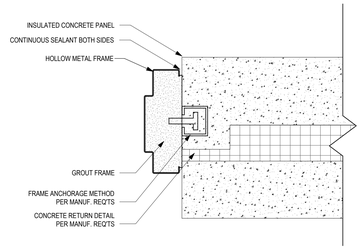
HM HEAD DETAIL @ INT. FURRED PRECAST **G10**
3" = 1'-0"



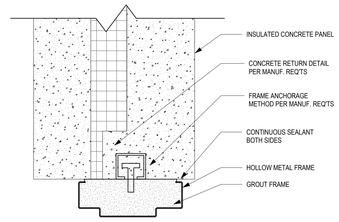
HM JAMB DETAIL @ METAL STUD **G5**
3" = 1'-0"



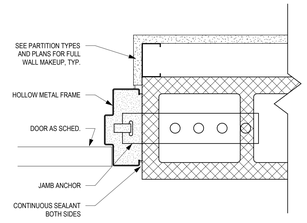
HM HEAD DETAIL @ METAL STUD **G3**
3" = 1'-0"



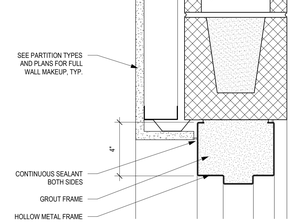
HM JAMB DETAIL @ PC PANEL **E12**
3" = 1'-0"



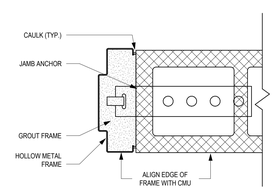
HM HEAD DETAIL @ PC PANEL **E10**
3" = 1'-0"



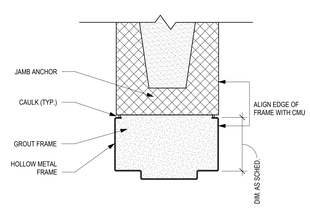
HM JAMB DETAIL @ INT. CMU **E8**
3" = 1'-0"



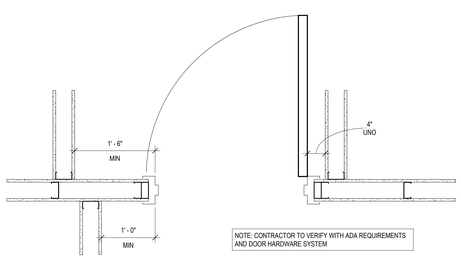
HM HEAD DETAIL @ INT. CMU **E5**
3" = 1'-0"



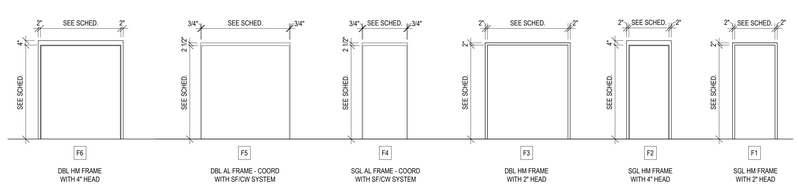
HM JAMB DETAIL @ CMU **E3**
3" = 1'-0"



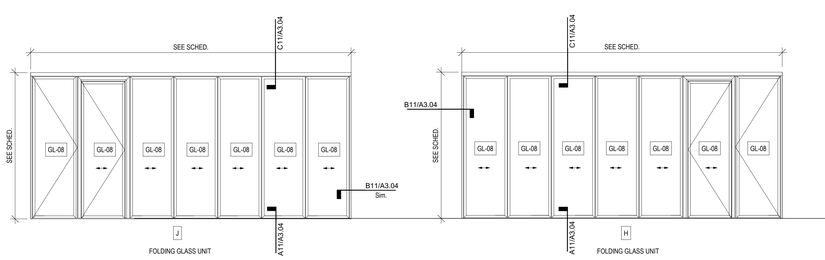
HM HEAD DETAIL @ CMU **C12**
3" = 1'-0"



TYPICAL PUSH/PULL DETAIL
1" = 1'-0"



DOOR FRAME TYPE LEGEND
1/4" = 1'-0"



**NOTE:
FOR DOOR TYPE D: AT EXTERIOR LOCATIONS PROVIDE GL-4. AT INTERIOR LOCATIONS PROVIDE GL-6

DOOR TYPE LEGEND
1/4" = 1'-0"

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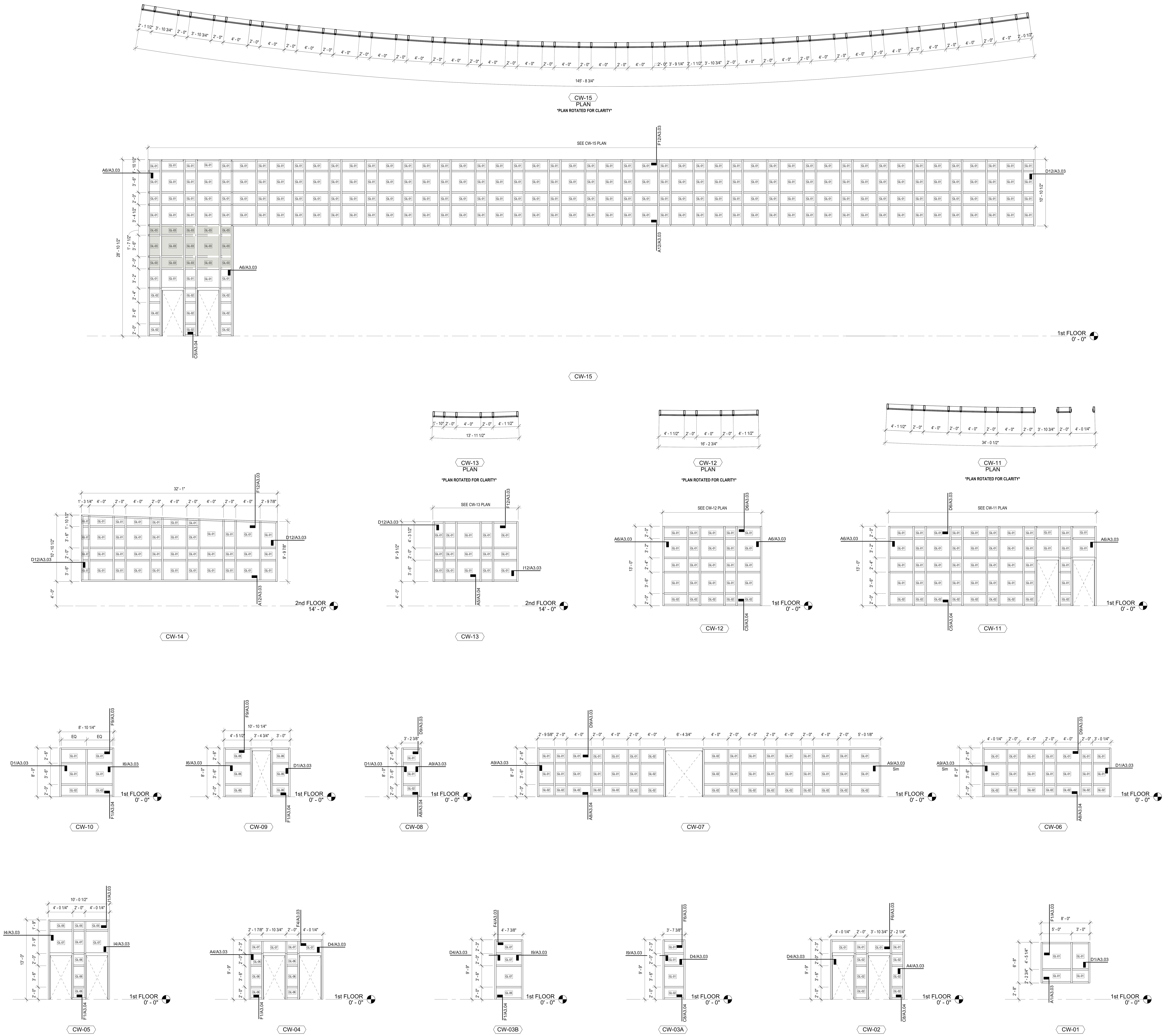
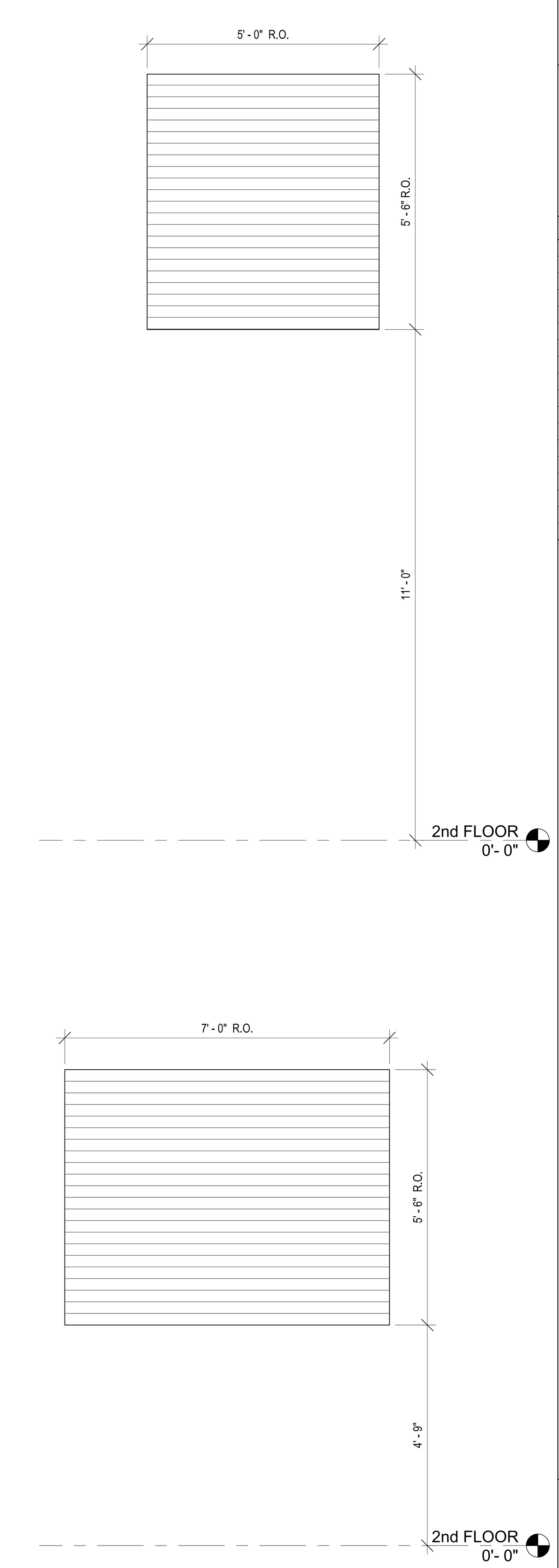
DOOR + WINDOW SCHEDULE, DOOR + FRAME TYPES

A3.01

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker



CURTAINWALL ELEVATIONS
3/16" = 1'-0"



MECH. LOUVER ELEVATIONS
1/2" = 1'-0"

GLAZING TYPES

INSULATING GLASS UNITS

- GL-01 - VISION GLASS, DOUBLE GLAZED. LOW-E, HEAT STRENGTHENED AND LAMINATED.
- GL-02 - VISION GLASS, DOUBLE GLAZED. LOW-E, TEMPERED AND LAMINATED.
- GL-03 - ACID ETCHED, DOUBLE GLAZED. LOW-E, LAMINATED.
- GL-08 - VISION GLASS, DOUBLE GLAZED. LAMINATED.

MONOLITHIC GLASS UNITS

- GL-04 - EXTERIOR GLAZING, VISION GLASS,TEMPERED.
- GL-05 - INTERIOR GLAZING, ACID ETCHED,TEMPERED.
- GL-06 - INTERIOR GLAZING, VISION GLASS,TEMPERED.
- GL-07 - INTERIOR GLAZING, HEAT STRENGTHENED GLASS.

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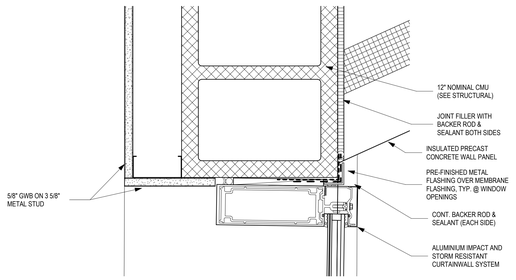
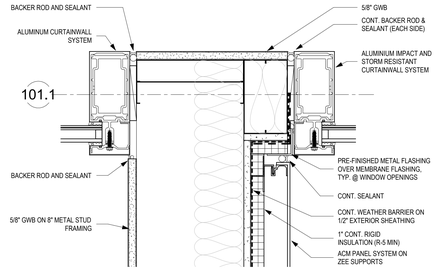
CURTAINWALL ELEVATIONS

A3.02

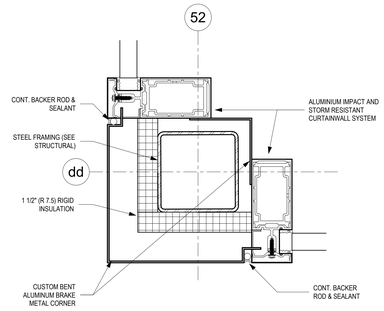
ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker



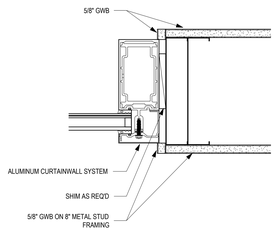
CW JAMB @ LOW ROOF PRECAST **I12**
3" = 1'-0"



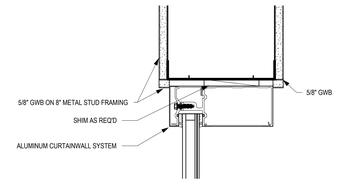
CW JAMB @ 101 VEST. STUD WALL **I9**
3" = 1'-0"



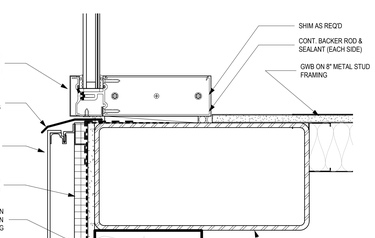
CW JAMB @GIFT SHOP INT. CORNER **I6**
3" = 1'-0"



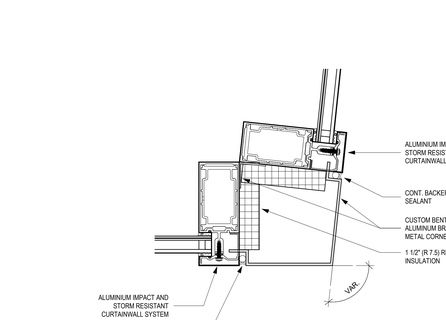
CW JAMB @ VEST. 129 INT. **I4**
3" = 1'-0"



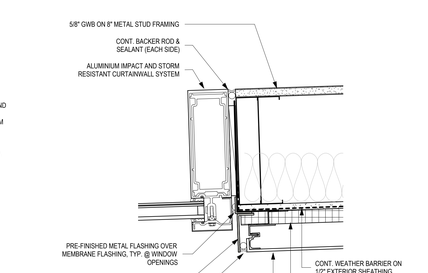
CW HEAD @ VEST. 129 INT. **I1**
3" = 1'-0"



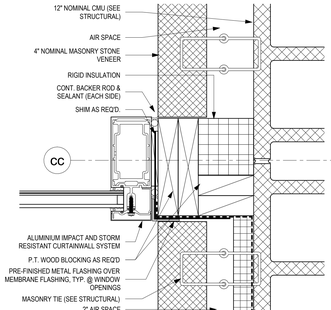
CW HEAD @ TYP. OVERHANG **F12**
3" = 1'-0"



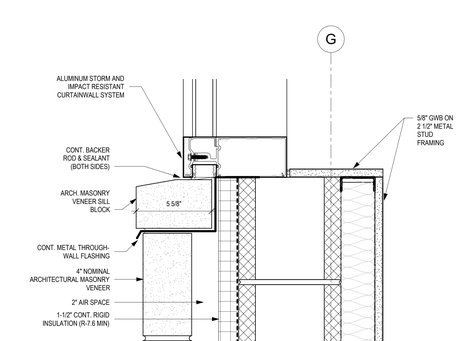
CW HEAD @ GIFT SHOP 103 INT **F9**
3" = 1'-0"



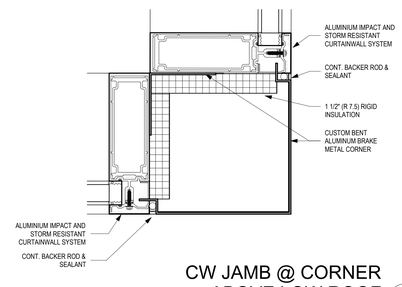
CW HEAD @ VEST 101 EXT **F6**
3" = 1'-0"



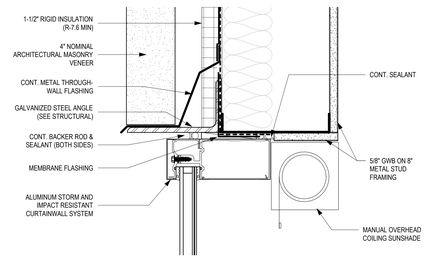
CW HEAD @ VEST 101 INT **F4**
3" = 1'-0"



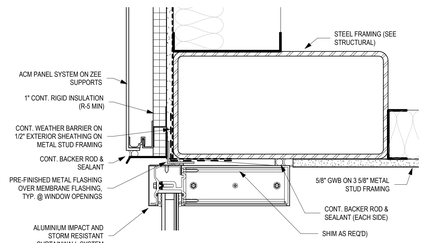
CW HEAD @ MASONRY VENEER / CMU WALL **F1**
3" = 1'-0"



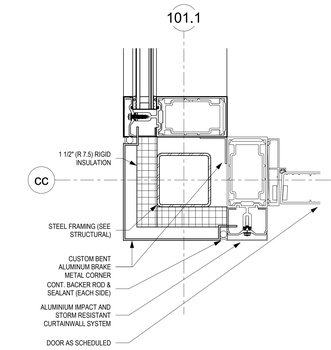
CW JAMB @ CORNER ABOVE LOW ROOF **D12**
3" = 1'-0"



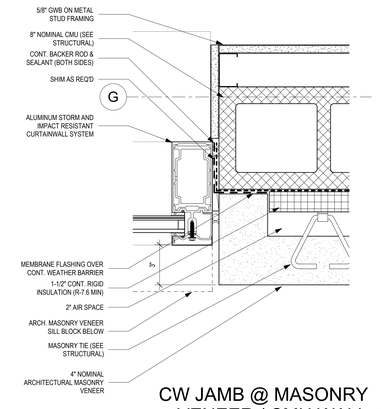
CW HEAD @ MASONRY VENEER / STUD WALL **D9**
3" = 1'-0"



CW HEAD @ MTL PANEL **D6**
3" = 1'-0"



CW JAMB - CORNER DETAIL **D4**
3" = 1'-0"



CW JAMB @ MASONRY VENEER / CMU WALL **D1**
3" = 1'-0"

CW SILL @ MTL PANEL **A12**
3" = 1'-0"

CW JAMB @ CORNER-GIFT SHOP **A9**
3" = 1'-0"

CW JAMB @ MTL PANEL **A6**
3" = 1'-0"

CW JAMB @ VEST. 101 EXT. **A4**
3" = 1'-0"

CW SILL @ MASONRY VENEER / CMU WALL **A1**
3" = 1'-0"

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HEAD JAMB AND SILL DETAILS

A3.03

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
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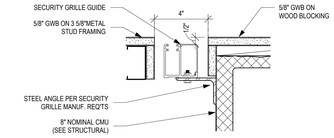
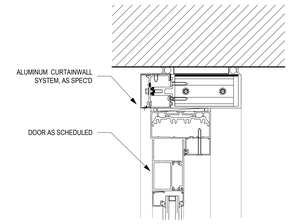
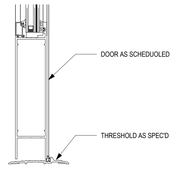


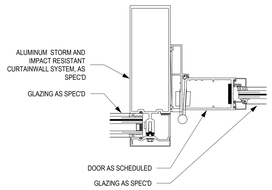
SECURITY GRILLE JAMB
3" = 1'-0" H4



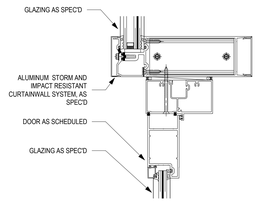
CW DOOR HEAD @ GIFT SHOP
3" = 1'-0" H1



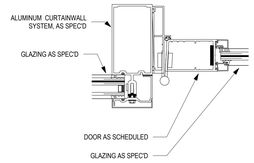
CW DOOR SILL- EXT.
3" = 1'-0" F12



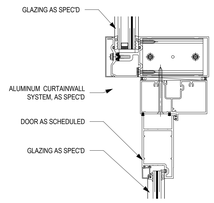
CW DOOR JAMB- 10 INCH SYSTEM
3" = 1'-0" F10



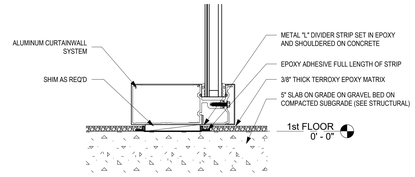
CW DOOR HEAD-10 INCH SYSTEM
3" = 1'-0" F8



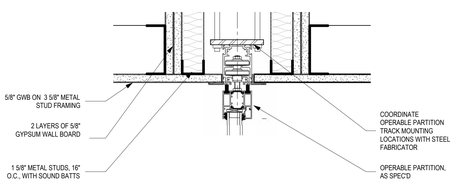
CW DOOR JAMB
3" = 1'-0" F6



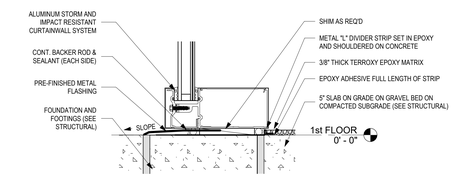
CW DOOR HEAD
3" = 1'-0" F4



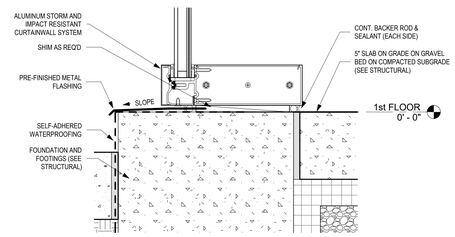
CW SILL, INT. TYP.
3" = 1'-0" F1



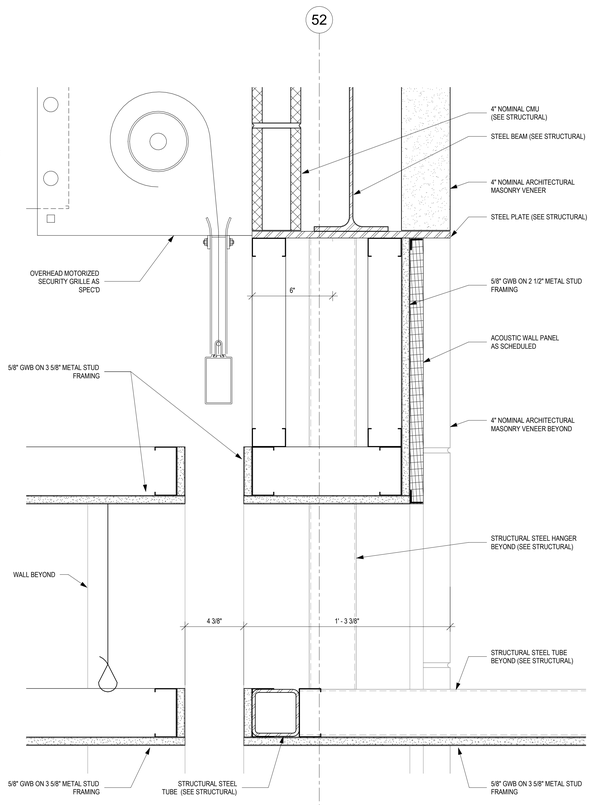
GLASS OPERABLE PARTITION HEAD
3" = 1'-0" C11



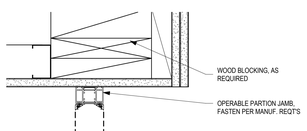
CW SILL @ VEST. 101 EXT.
3" = 1'-0" C8



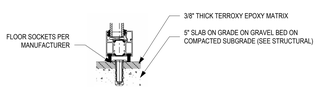
CW SILL @ CONC. CURB
3" = 1'-0" C5



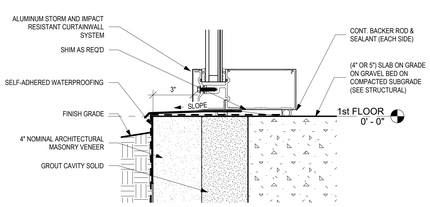
HEAD @ SECURITY GRILLE
3" = 1'-0" A1



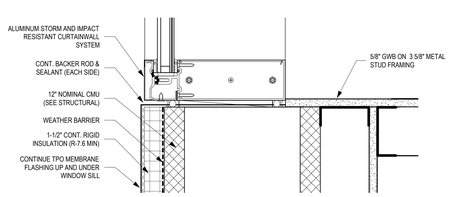
GLASS OPERABLE PARTITION JAMB
3" = 1'-0" B11



GLASS OPERABLE PARTITION SILL
3" = 1'-0" A11



CW SILL @ CONC. SLAB
3" = 1'-0" A8



CW SILL @ LOW ROOF
3" = 1'-0" A5

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HEAD JAMB AND SILL DETAILS

A3.04

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
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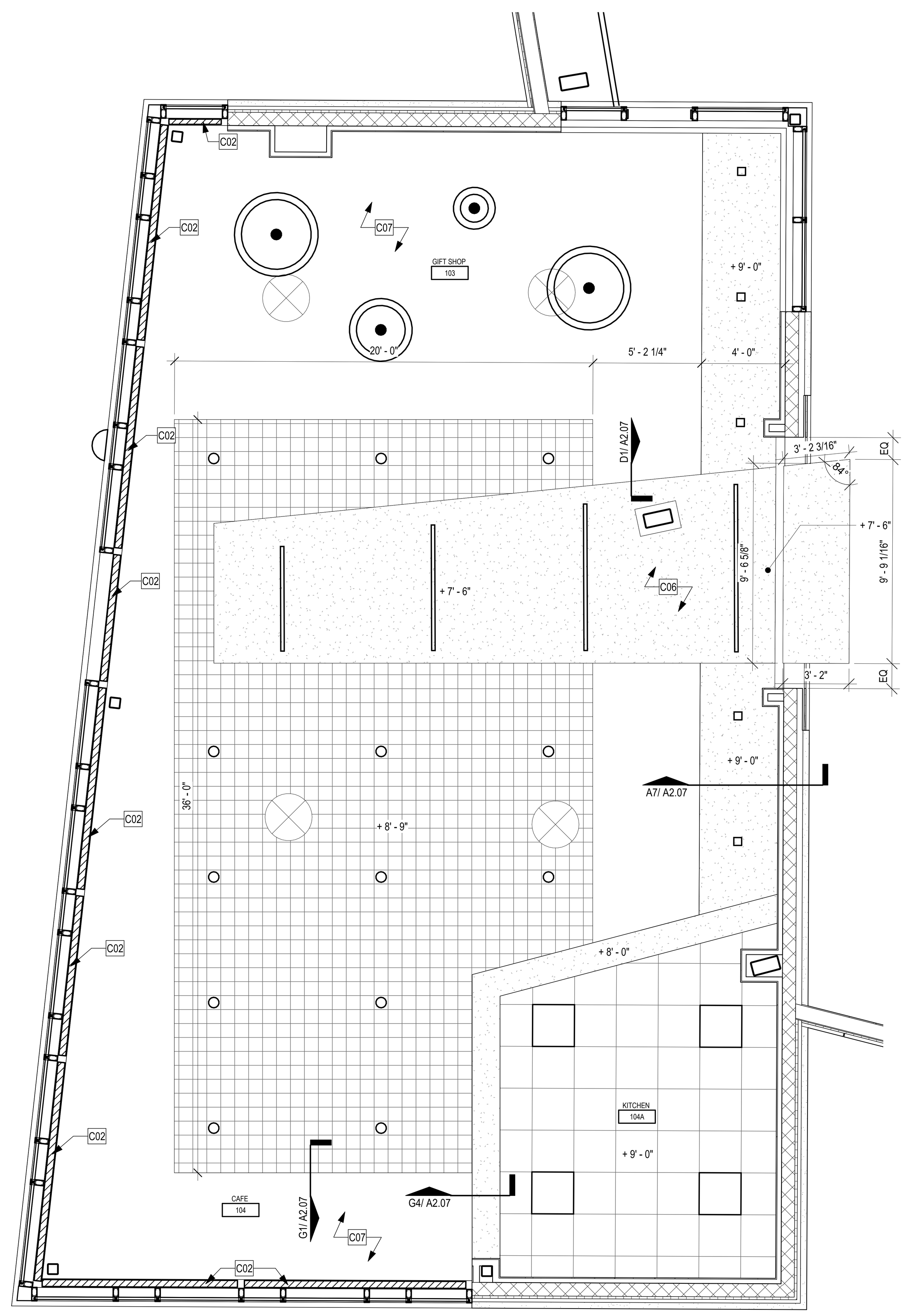
ENLARGED FLOOR PLAN NOTES

ENLARGED PLAN KEYED NOTES

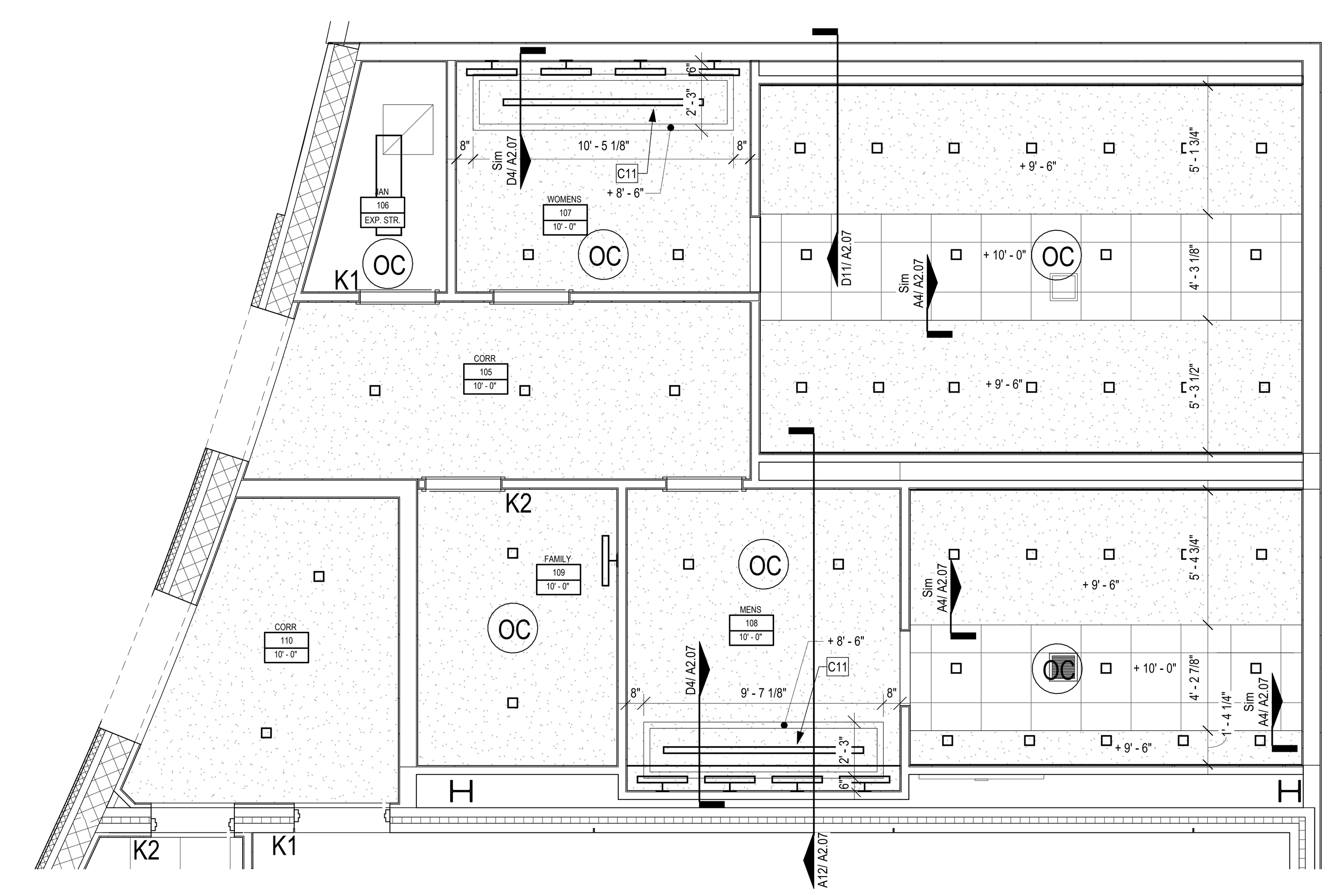
- 01 ADA PUSH BUTTON WALL MOUNT
- 02 RECESSED WALK OFF MAT, COORDINATE SLAB RECESS W/ STRUCTURAL

RCP KEYED NOTES

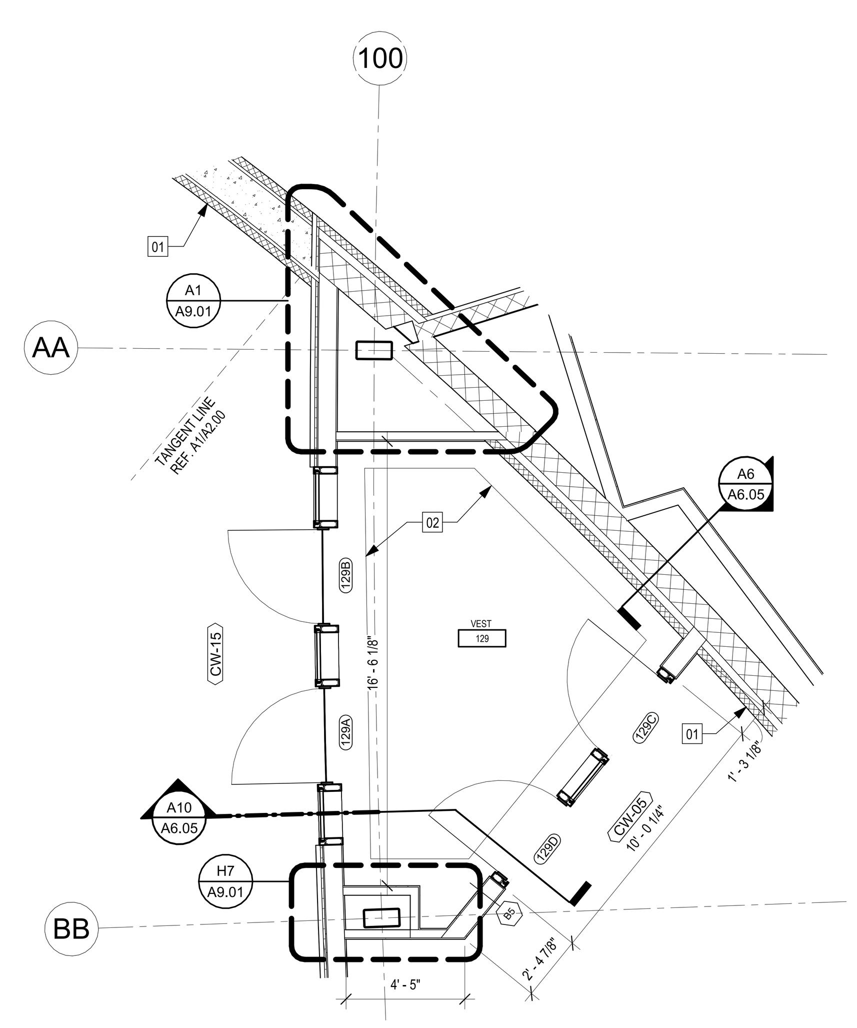
- C01 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)
- C02 MANUAL ROLLER SHADE (HATCHED FOR CLARITY)
- C03 SUSPENDED ACRYLIC PANELS TO RECEIVE CAMPAIGN COLOR BARS PATTERNING (BY EXHIBIT DESIGNER). SUSPENDED BEHIND HIGH LEVEL CURTAIN WALL AT WEST FACADE ONLY
- C04 MOTORIZED SUNSHADE AT +29'-0" AFF (HATCHED FOR CLARITY)
- C05 MOTORIZED SUNSHADE AT +13'-0" AFF (HATCHED FOR CLARITY)
- C06 PROVIDE LEVEL 5 GYP. BD. FINISH.
- C07 EXPOSED STRUCTURE
- C08 LINE OF ROOF SOFFIT ABOVE
- C09 REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN, DETAILS & LIGHTING LAYOUTS.
- C10 ROOF LADDER
- C11 SUSPENDED DECORATIVE CEILING CLOUD, PROVIDE LEVEL 5 GYP. BD. FINISH.
- C12 ACOUSTICAL PLASTER AND FIBERGLASS BOARD, REFERENCE PREVIOUS CD PACKAGE DATED 12.30.2011 FOR BASIS OF DESIGN.
- C13 10'-0" X10'-0" UNISTRUT GRID SYSTEM (SEE STRUCTURAL)



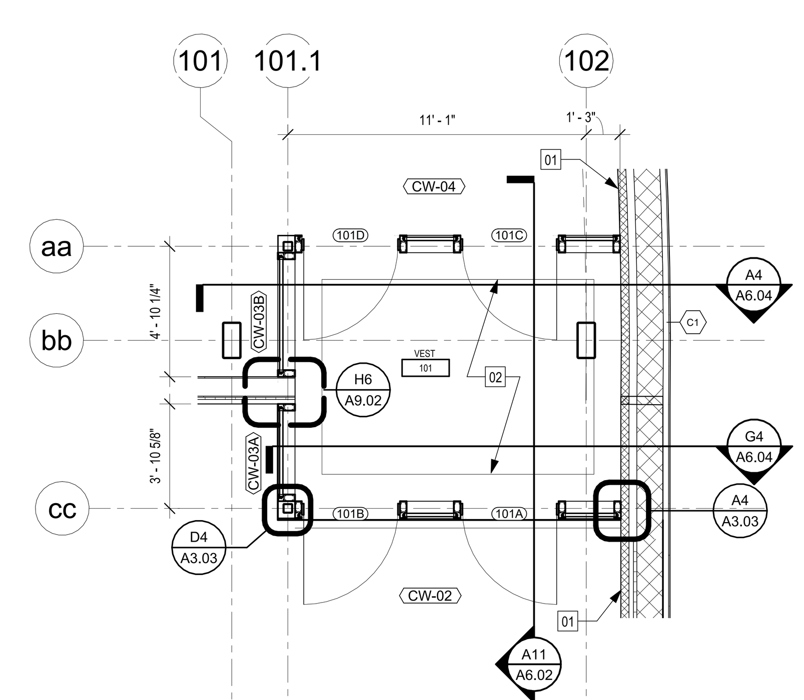
103 GIFT SHOP / 104 CAFE / 104A KITCHEN ENLARGED RCP E9
1/4" = 1'-0"



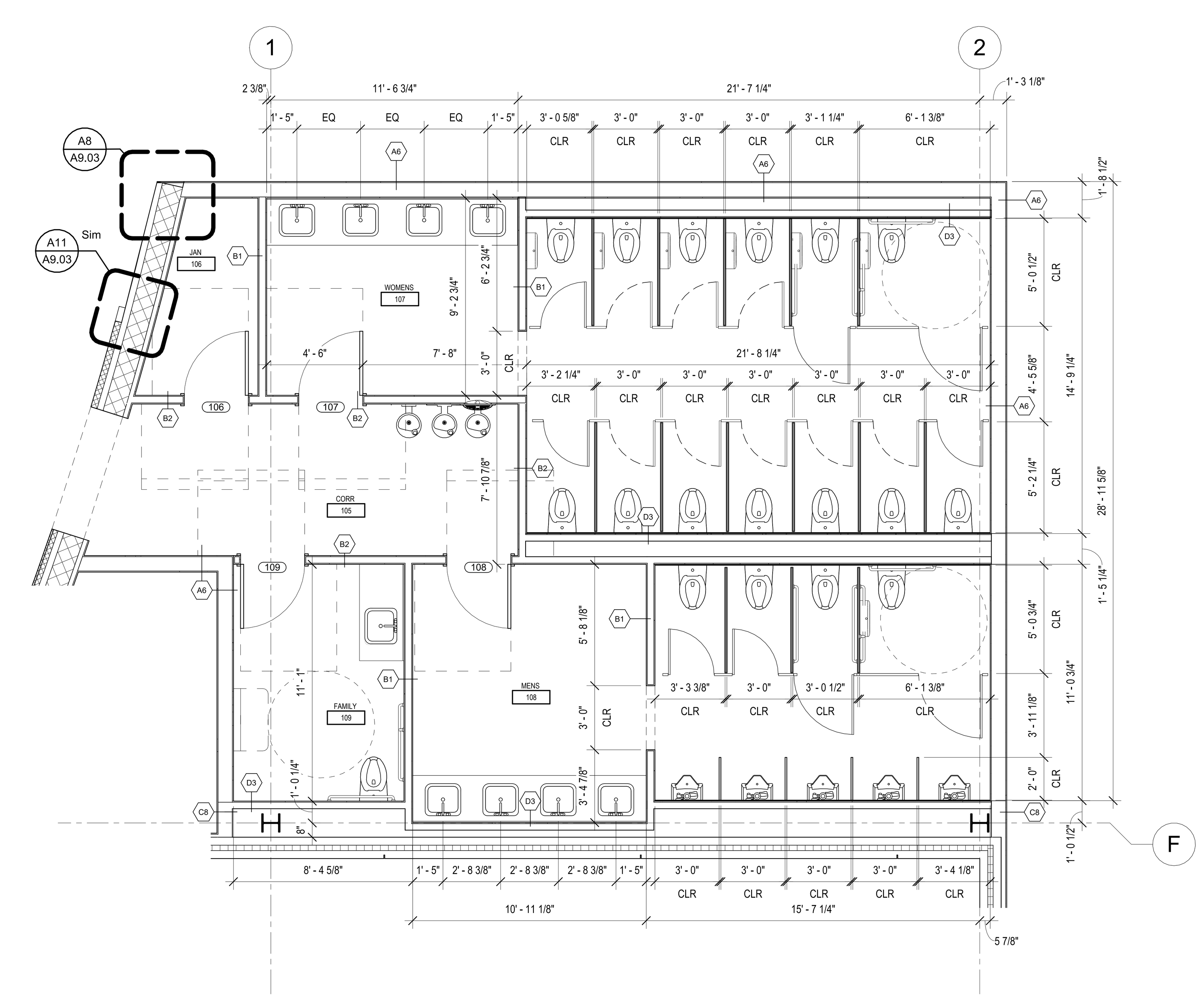
107 WOMENS / 108 MENS / 109 FAMILY ENLARGED RCP E1
1/4" = 1'-0"



129 VEST ENLARGED PLAN A11
1/4" = 1'-0"



101 VEST ENLARGED PLAN A8
1/4" = 1'-0"



107 WOMENS / 108 MENS / 109 FAMILY ENLARGED PLAN A3
1/4" = 1'-0"

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ENLARGED PLANS & RCPS

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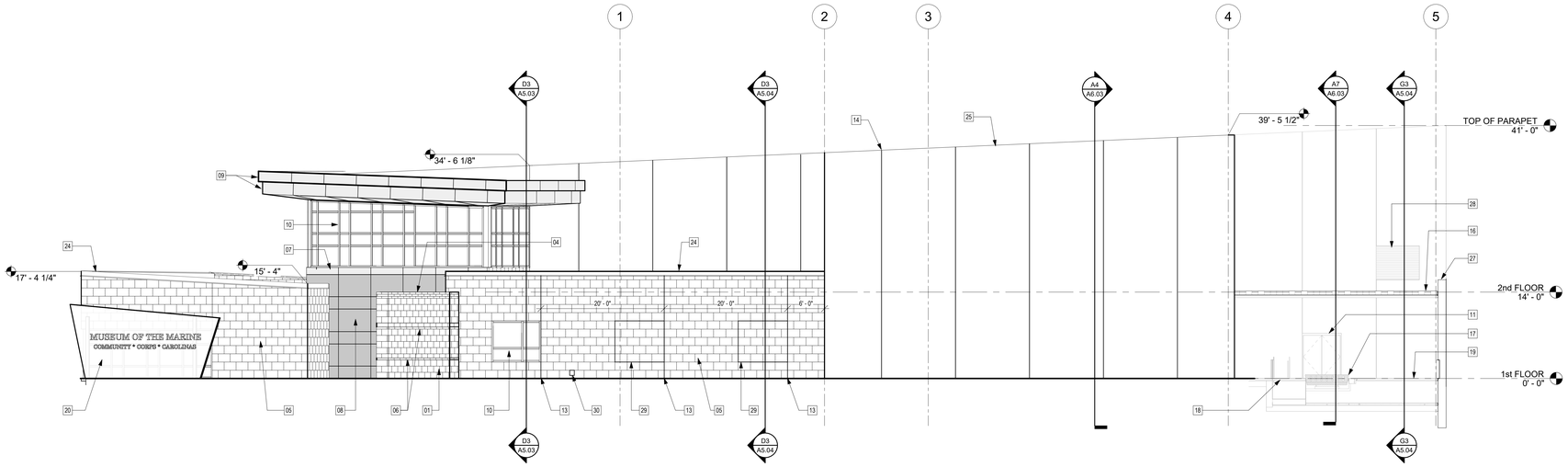
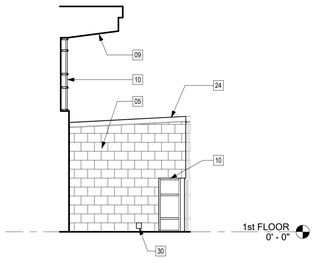
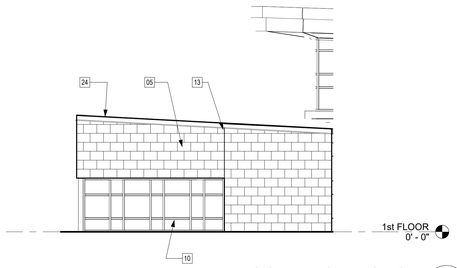


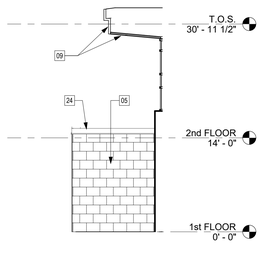
SOUTH ELEVATION G3
1/8" = 1'-0"



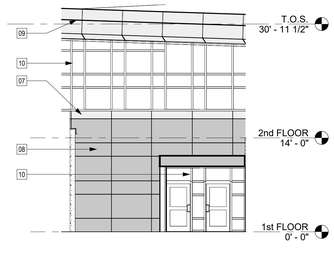
NORTH GIFT SHOP E11
1/8" = 1'-0"



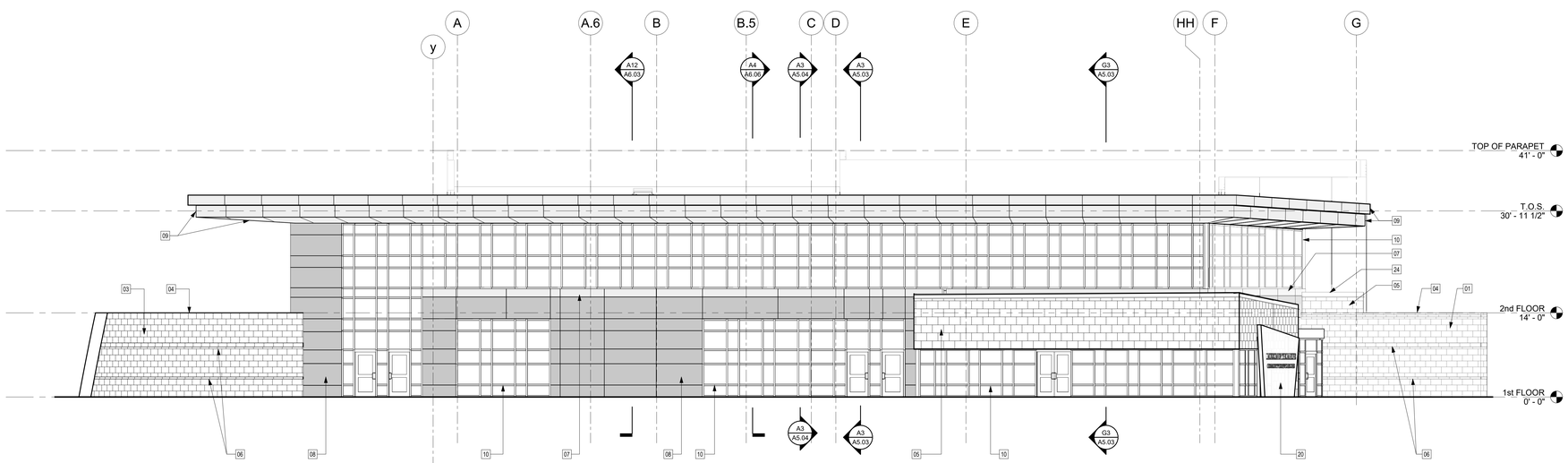
SOUTH GIFT SHOP E8
1/8" = 1'-0"



EAST GIFT SHOP E5
1/8" = 1'-0"



SOUTH ENTRY ELEVATION E3
1/8" = 1'-0"



WEST ELEVATION A3
1/8" = 1'-0"

EXTERIOR ELEVATIONS KEYED NOTES

01 MASONRY STONE VENEER; TEXTURE: CHISEL FACE - (12" X 24"W) TYP SIZE
02 MASONRY STONE VENEER; TEXTURE: ROCK FACE - (12" H X 24"W) TYP SIZE (INTERIOR ONLY)
03 MASONRY STONE VENEER; TEXTURE: GROUND FACE - (12" H X 24"W) TYP SIZE
04 MASONRY STONE VENEER; COPING CAP
05 ARCHITECTURAL STONE VENEER (16"H X 24"W) TYP. SIZE
06 MASONRY STONE VENEER ACCENT BANDS; TEXTURE: GROUND FACE
07 ALUMINUM COMPOSITE MATERIAL (ACM) PANEL - COLOR - MTL-01
08 ALUMINUM COMPOSITE MATERIAL (ACM) PANEL - COLOR - MTL-02
09 ALUMINUM COMPOSITE MATERIAL (ACM) FASCIA - COLOR - MTL-01. ALIGN PANEL JOINTS WITH CURTAINWALL / METAL PANEL MODULE BELOW.
10 ALUMINUM STORM AND IMPACT RESISTANT CURTAIN WALL SYSTEM
11 INSULATED HOLLOW METAL DOOR AND FRAME
12 CONTROL JOINT IN CAST-IN-PLACE CONCRETE WALL
13 MASONRY CONTROL JOINT. MASONRY STONE VENEER PROVIDER TO PROVIDE JOINT REINFORCEMENT AS REQUIRED TO UTILIZE MASONRY CONTROL JOINTS INDICATED
14 PRECAST PANEL JOINT; COORDINATE FINAL MANUF. RECOMMENDED LOCATIONS w/ ARCHITECT
15 EIFS
16 PRE-FINISHED METAL ROOF CANOPY
17 DOCK LEVELER
18 CAST-IN-PLACE CONCRETE STAIR
19 CAST-IN-PLACE CONCRETE PLATFORM
20 PERFORATED METAL MESH CLADDING @ MONUMENT SIGN
21 EXTERIOR WALL-MOUNTED CAMERAS - OWNER PROVIDED. COORDINATE WITH OWNER'S SECURITY DESIGN
22 EXTERIOR LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS
23 FDC - REFER TO FIRE PROTECTION DRAWINGS
24 PREFINISHED ALUMINUM COPING
25 INSULATED CONCRETE PANEL
26 OVERFLOW ROOF DRAIN OUTLET - COORD w/ PLUMBING DRAWINGS
27 CAST-IN-PLACE CONCRETE SCREEN WALL
28 ALUMINUM STORM AND IMPACT RESISTANT LOUVER
29 KNOCK OUT PANEL
30 OVERFLOW ROOF DRAIN OUTLET - COORD w/ PLUMBING DRAWINGS

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EXTERIOR BUILDING ELEVATIONS

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ISSUE DATE: 08-01-2023
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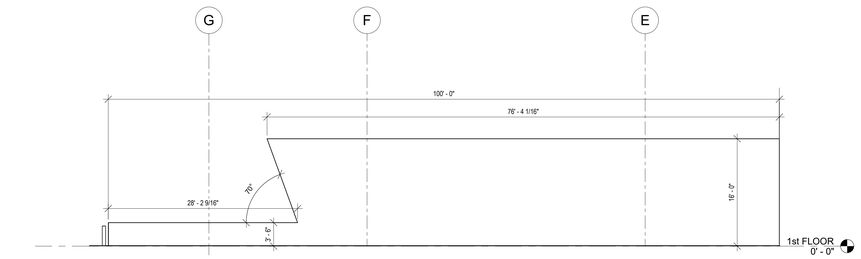
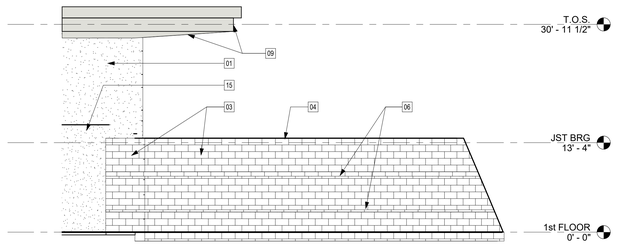
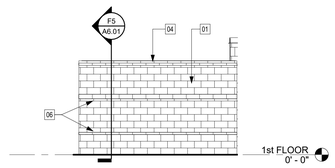


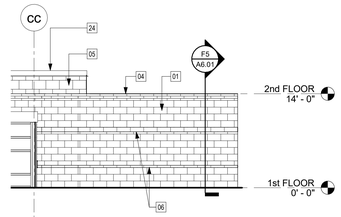
LOADING DOCK SCREEN WALL
1/8" = 1'-0" **I8**



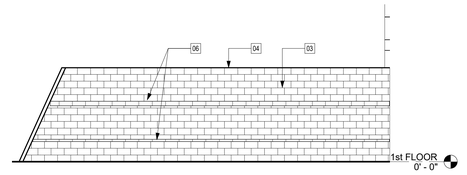
NORTH CURVED MASONRY VENEER WALL - BACK
1/8" = 1'-0" **I3**



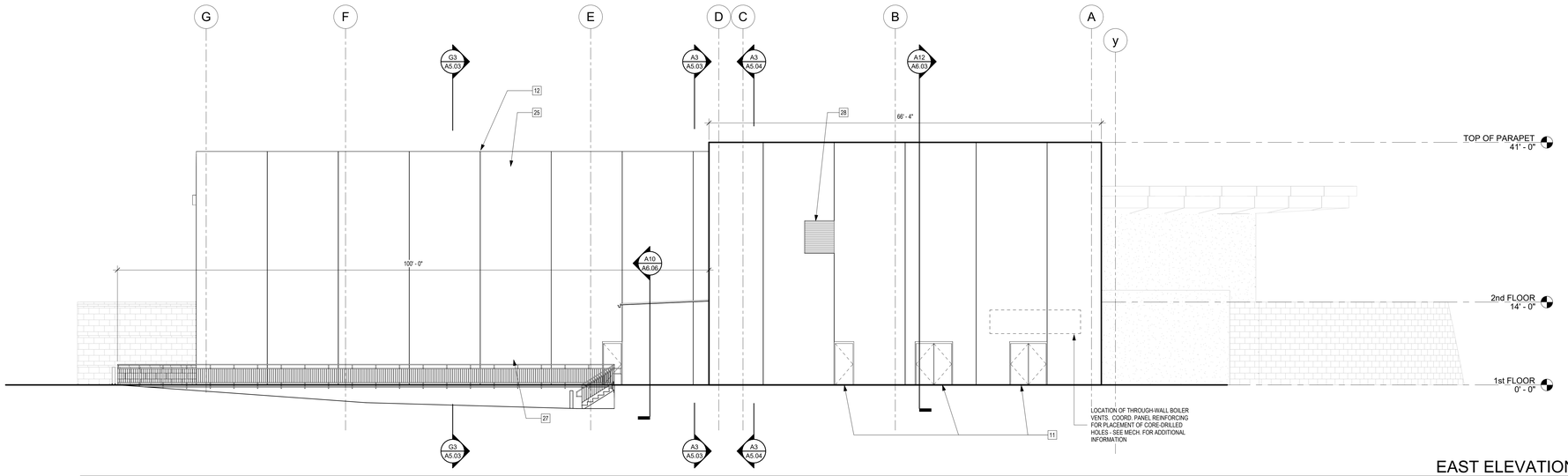
SOUTH CURVED M.V. WALL - BACK
1/8" = 1'-0" **G10**



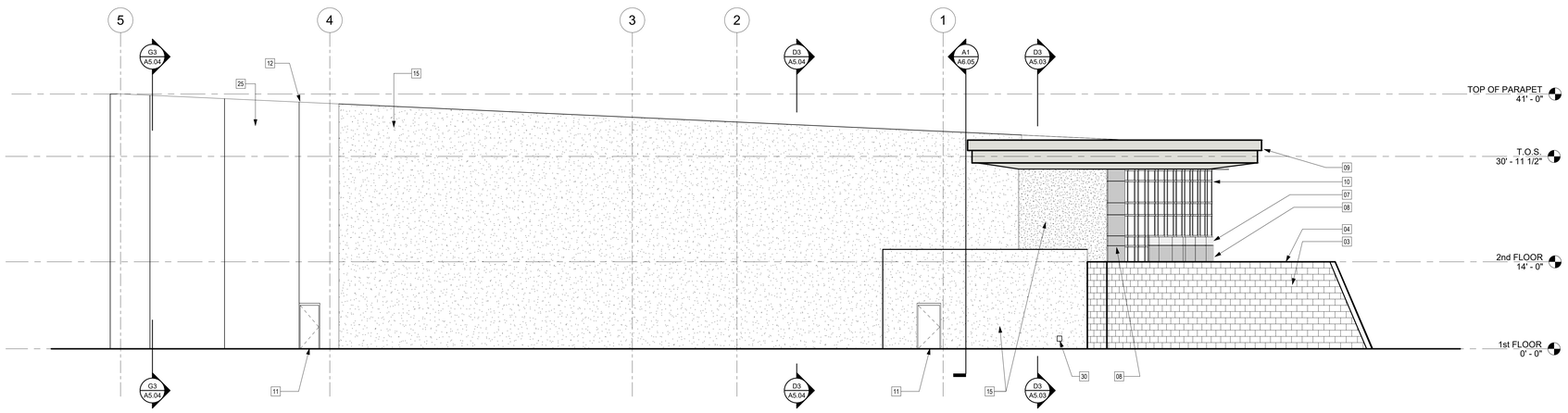
SOUTH CURVED M.V. WALL - FRONT
1/8" = 1'-0" **G8**



NORTH CURVED MASONRY VENEER WALL - FRONT
1/8" = 1'-0" **G3**



EAST ELEVATION
1/8" = 1'-0" **D3**



NORTH ELEVATION
1/8" = 1'-0" **A3**

EXTERIOR ELEVATIONS KEYED NOTES

01	MASONRY STONE VENEER; TEXTURE: CHISEL FACE - (12" X 24"W) TYP SIZE
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09	ALUMINUM COMPOSITE MATERIAL (ACM) FASCIA - COLOR - MTL-01. ALIGN PANEL JOINTS WITH CURTAINWALL / METAL PANEL MODULE BELOW.
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11	INSULATED HOLLOW METAL DOOR AND FRAME
12	CONTROL JOINT IN CAST-IN-PLACE CONCRETE WALL
13	MASONRY CONTROL JOINT. MASONRY STONE VENEER PROVIDER TO PROVIDE JOINT REINFORCEMENT AS REQUIRED TO UTILIZE MASONRY CONTROL JOINTS INDICATED
14	PRECAST PANEL JOINT; COORDINATE FINAL MANUF. RECOMMENDED LOCATIONS w/ ARCHITECT
15	EIFS
16	PRE-FINISHED METAL ROOF CANOPY
17	DOCK LEVELER
18	CAST-IN-PLACE CONCRETE STAIR
19	CAST-IN-PLACE CONCRETE PLATFORM
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29	KNOCK OUT PANEL
30	OVERFLOW ROOF DRAIN OUTLET - COORD w/ PLUMBING DRAWINGS

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EXTERIOR BUILDING ELEVATIONS

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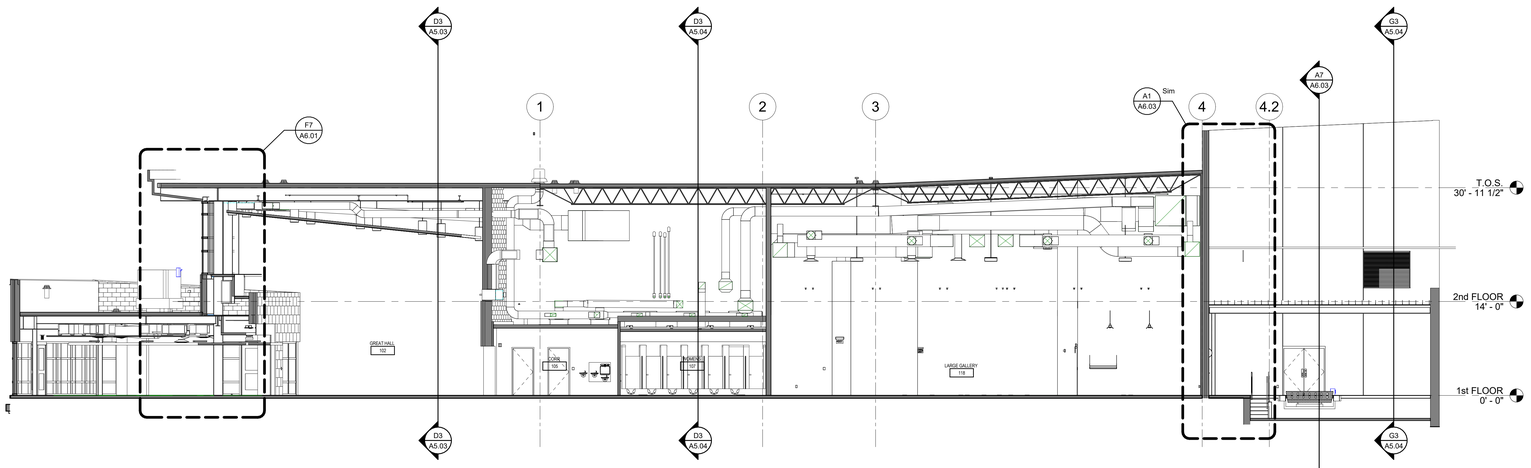
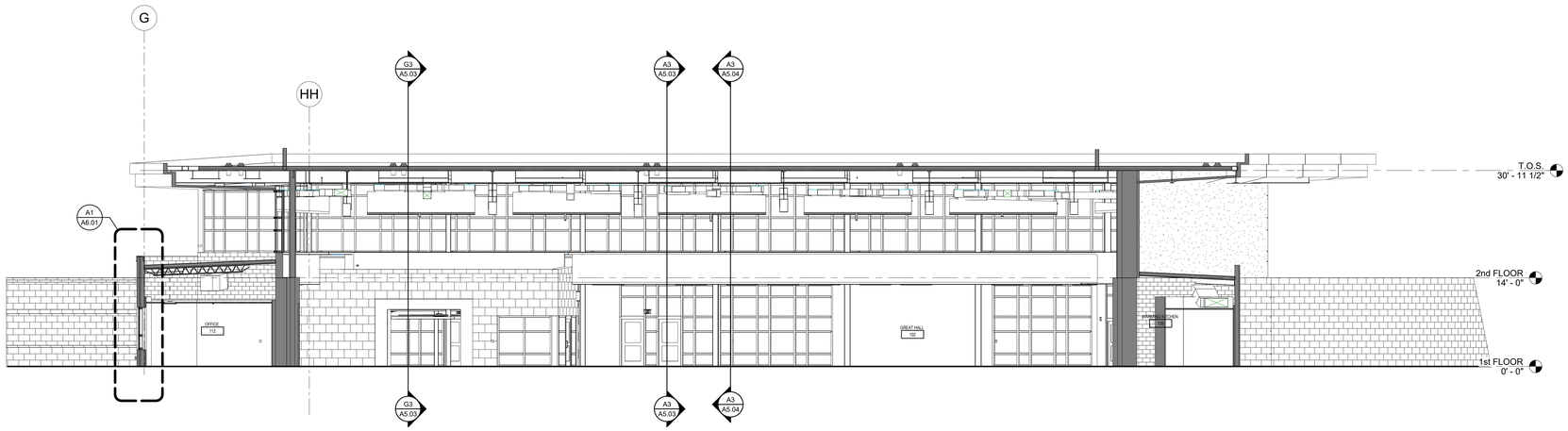
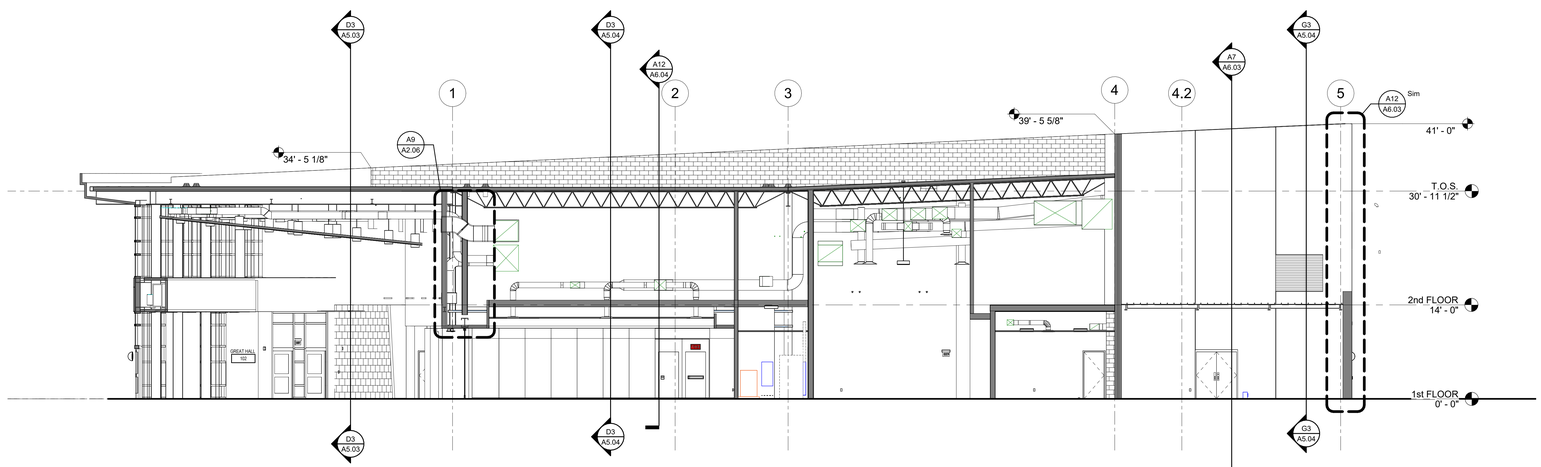


GIFT SHOP BUILDING SECTION **G3**
1/8" = 1'-0"



GREAT HALL BUILDING SECTION **D3**
1/8" = 1'-0"



MAIN GALLERY BUILDING SECTION **A3**
1/8" = 1'-0"

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BUILDING SECTIONS

A5.03

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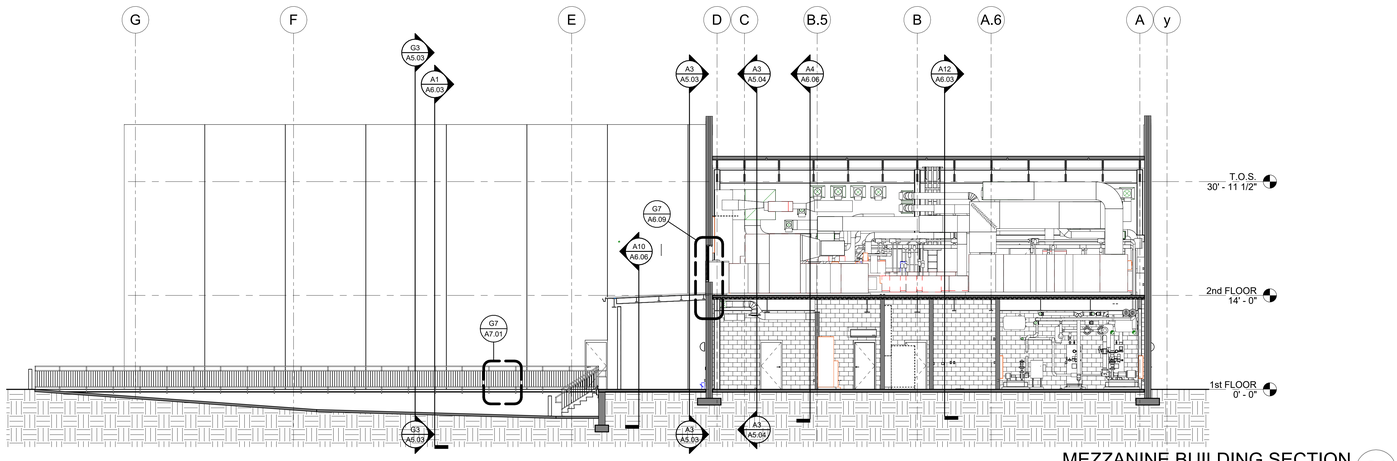
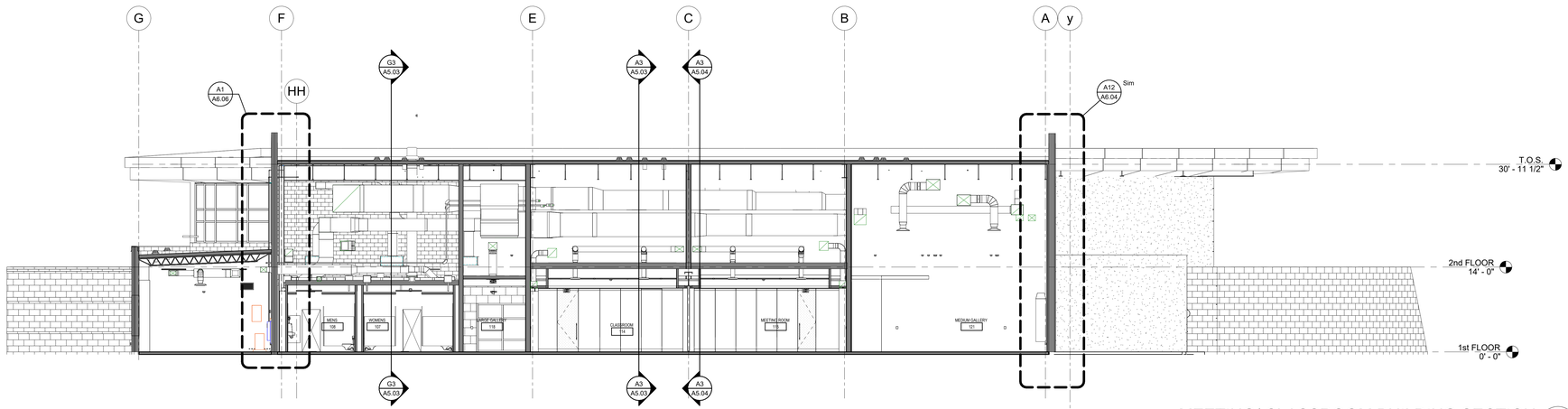
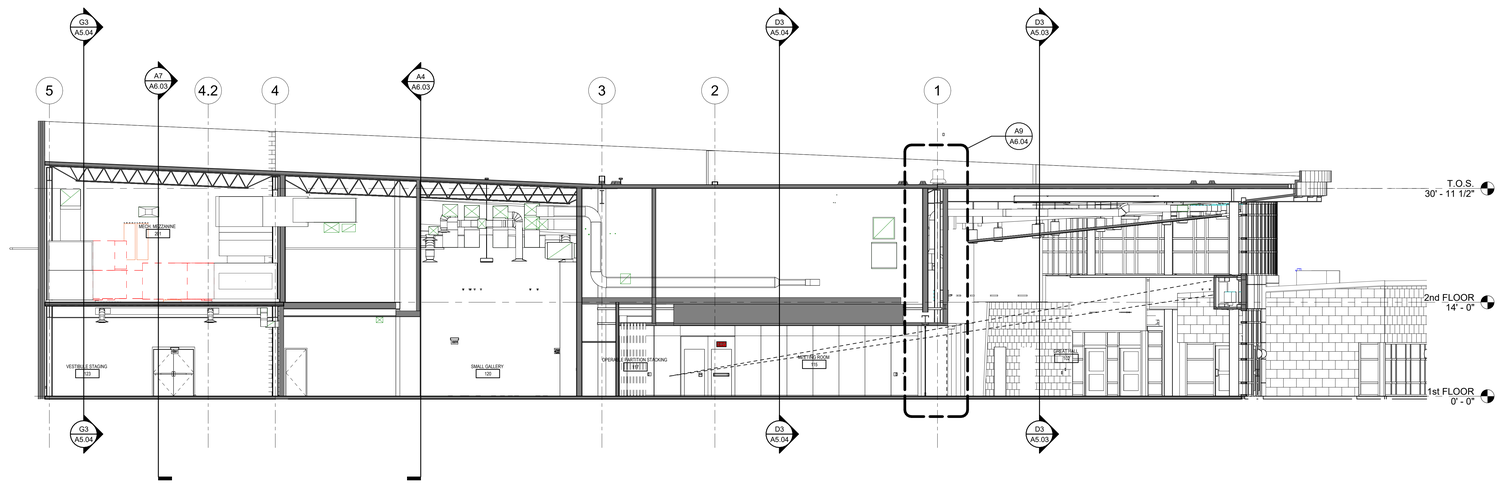


MEZZANINE BUILDING SECTION
1/8" = 1'-0" **G3**



MEETING/ CLASSROOM BUILDING SECTION
1/8" = 1'-0" **D3**



MEETING SPACE BUILDING SECTION
1/8" = 1'-0" **A3**

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BUILDING SECTIONS

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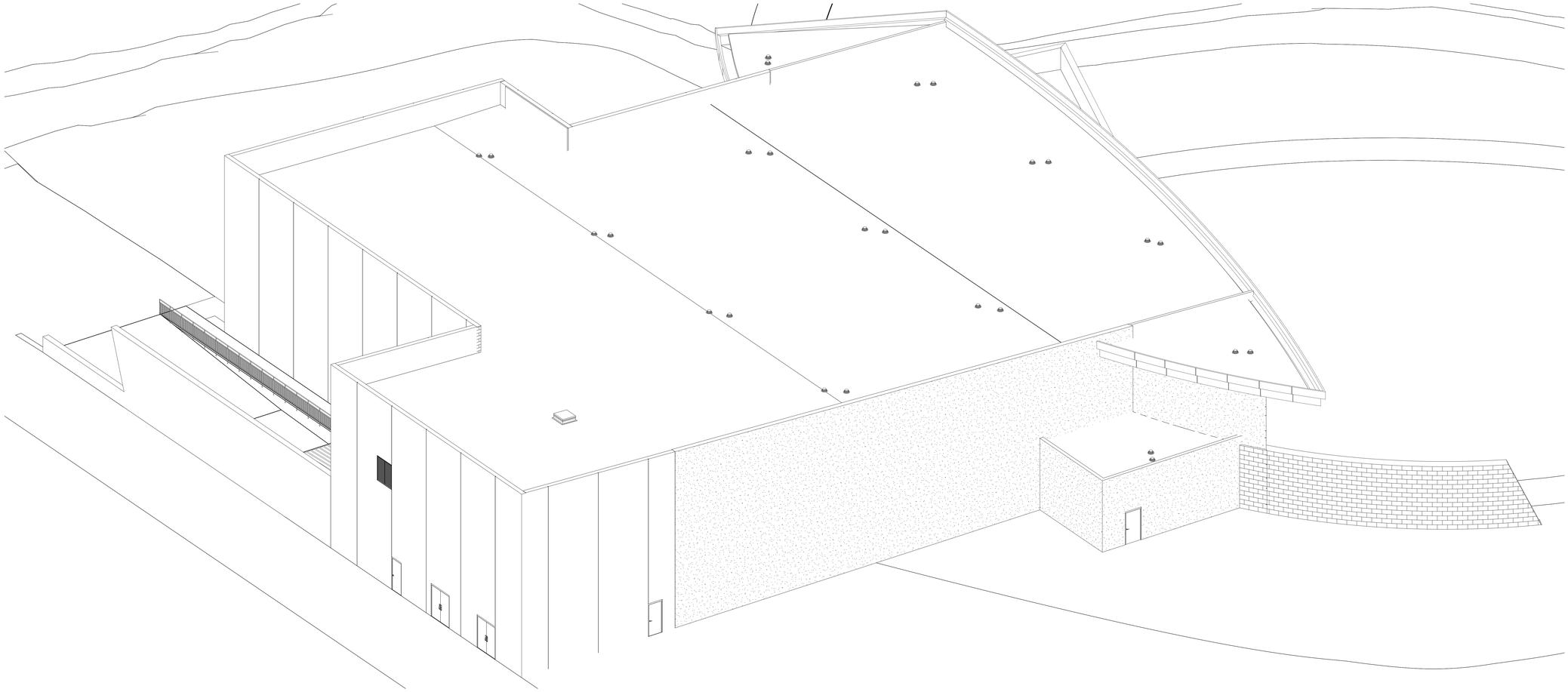
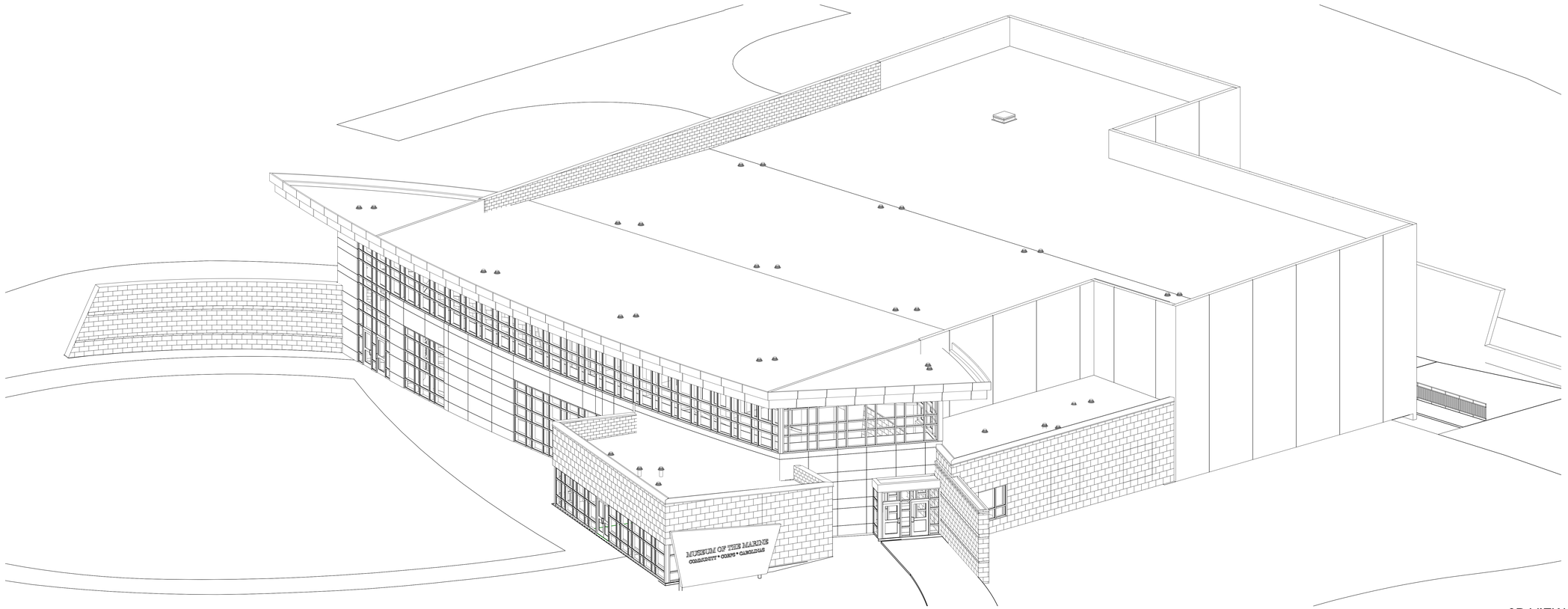


3D VIEW F1



3D VIEW A1

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3D VIEWS

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ISSUE DATE: 08-01-2023
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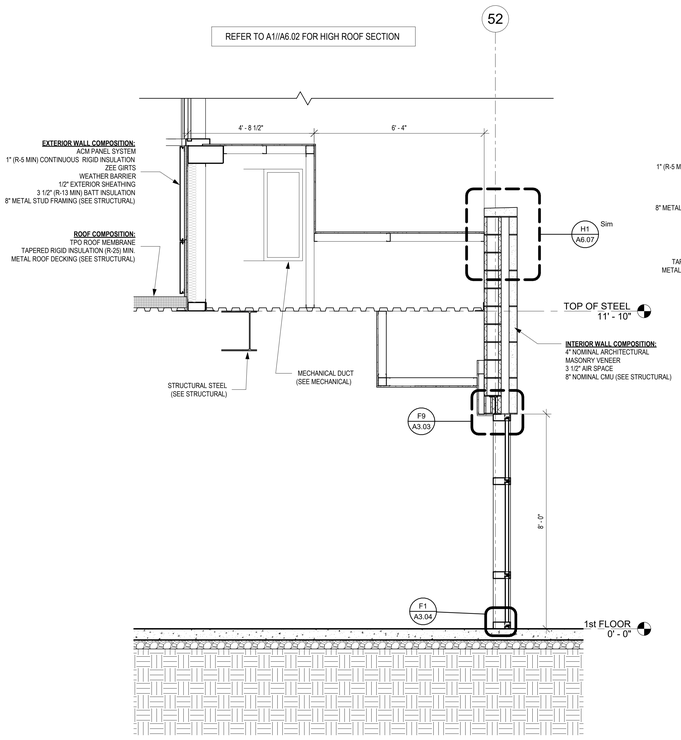
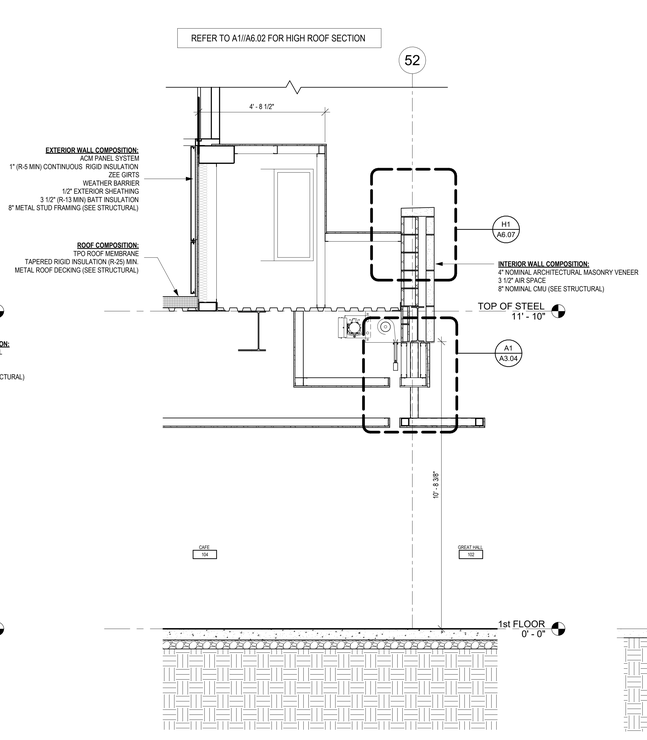
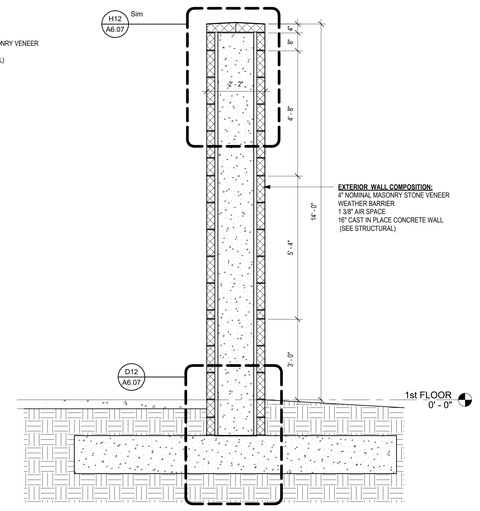


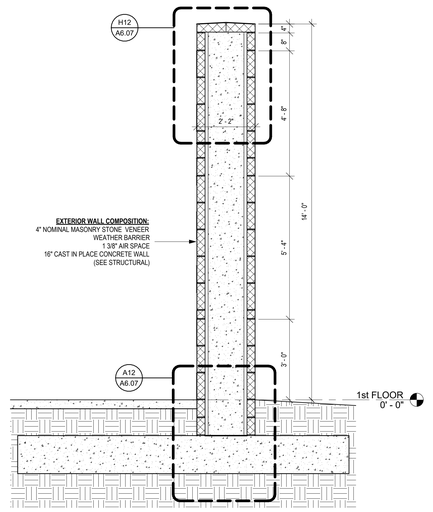
WALL SECTION @ GIFT SHOP 103 INTERIOR C.W. **F11**
1/2" = 1'-0"



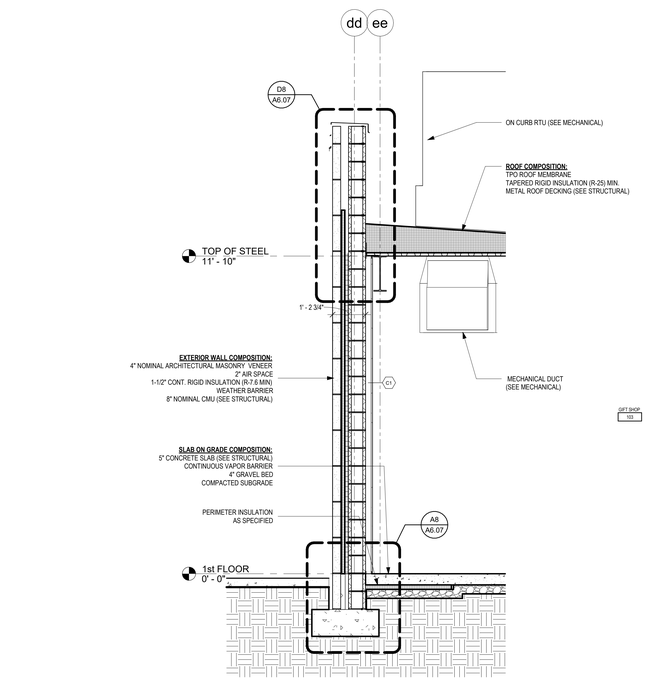
WALL SECTION @ GIFT SHOP 103 SECURITY GRILLE **F7**
1/2" = 1'-0"



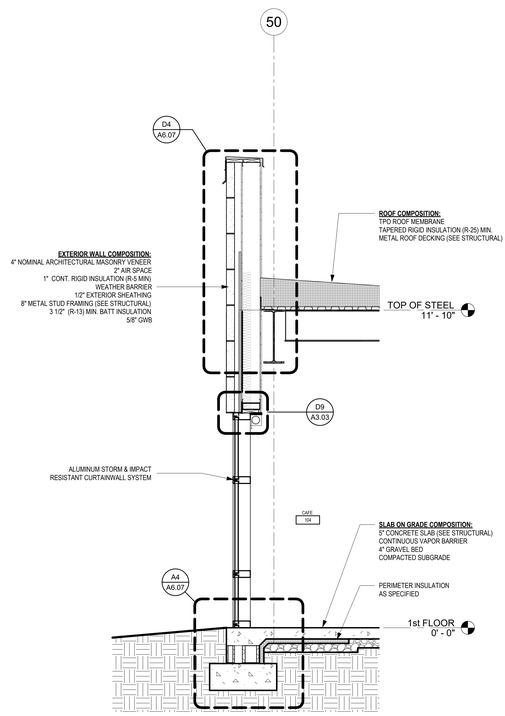
WALL SECTION @ S. MASONRY VENEER WALL **F5**
1/2" = 1'-0"



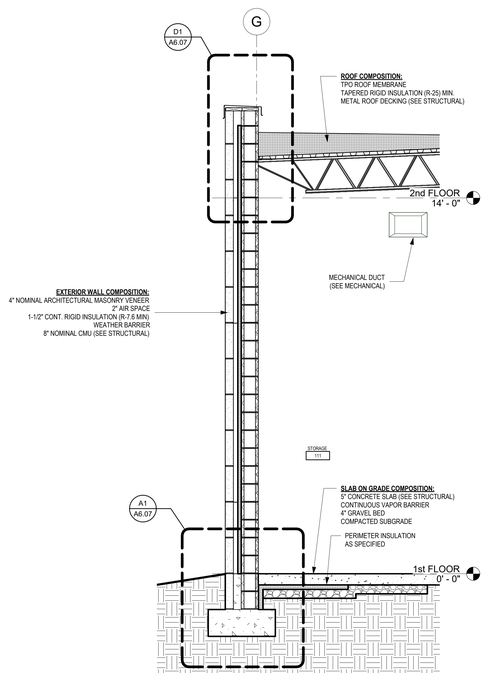
WALL SECTION @ N. MASONRY VENEER WALL **F1**
1/2" = 1'-0"



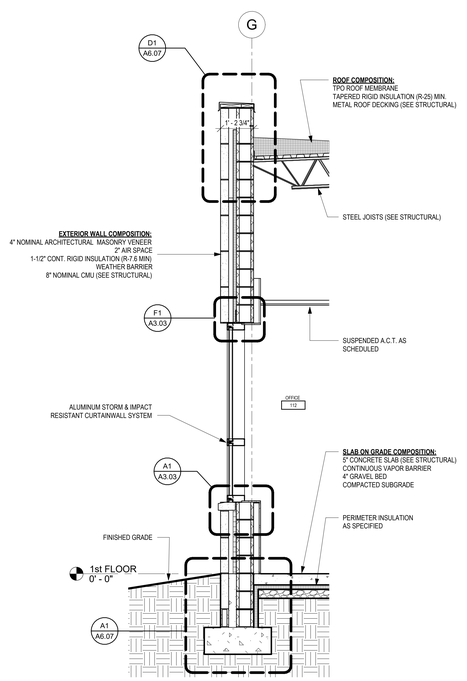
WALL SECTION @ GIFT SHOP 103 **A11**
1/2" = 1'-0"



WALL SECTION @ CAFE 104 **A8**
1/2" = 1'-0"



WALL SECTION @ STORAGE 111 **A4**
1/2" = 1'-0"



WALL SECTION @ OFFICE 112 **A1**
1/2" = 1'-0"

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A6.01

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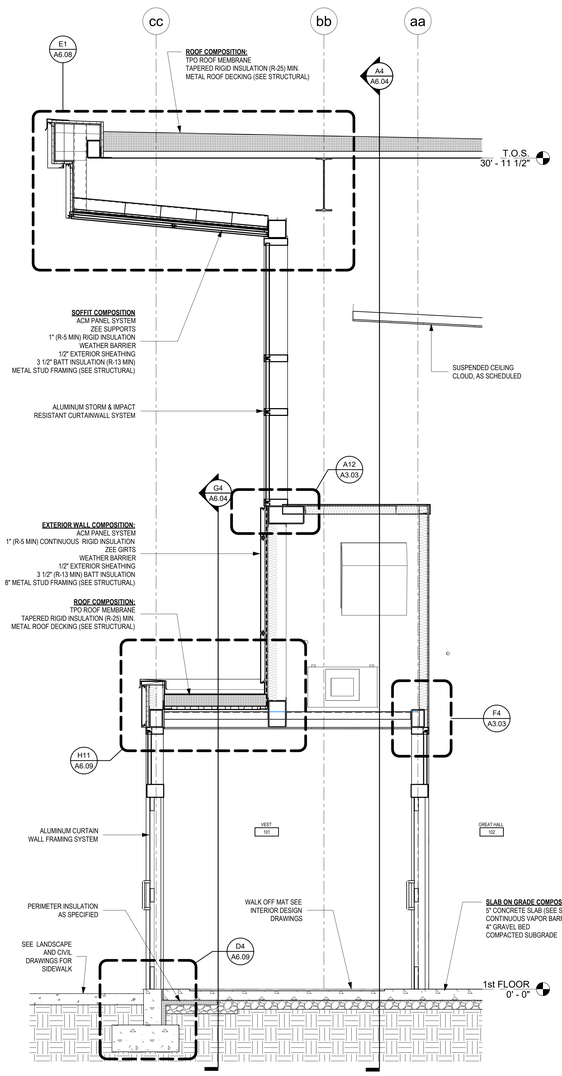
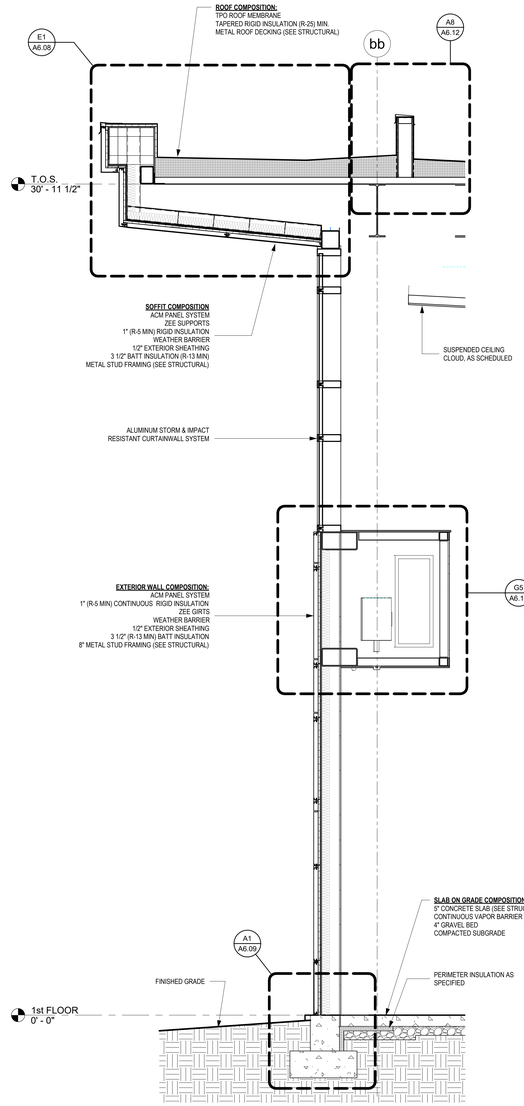
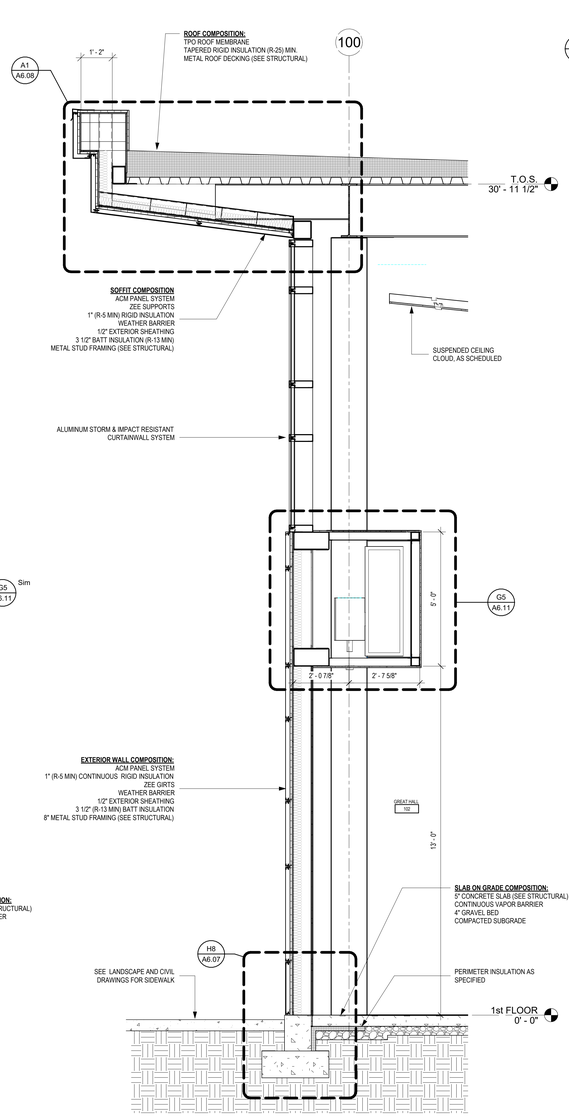


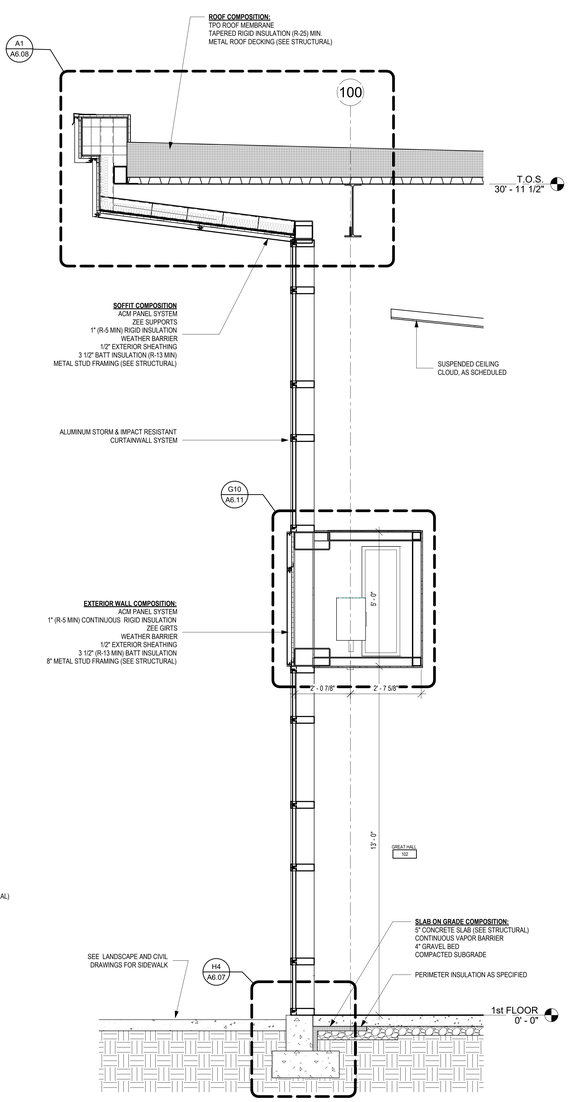
WALL SECTION @ SOUTH VESITBULE 101 **A11**
1/2" = 1'-0"



WALL SECTION @ METAL PANELS SOUTH **A8**
1/2" = 1'-0"



WALL SECTION @ GREAT HALL 102 METAL PANELS **A4**
1/2" = 1'-0"



WALL SECTION @ GREAT HALL 102 CURTAIN WALL **A1**
1/2" = 1'-0"

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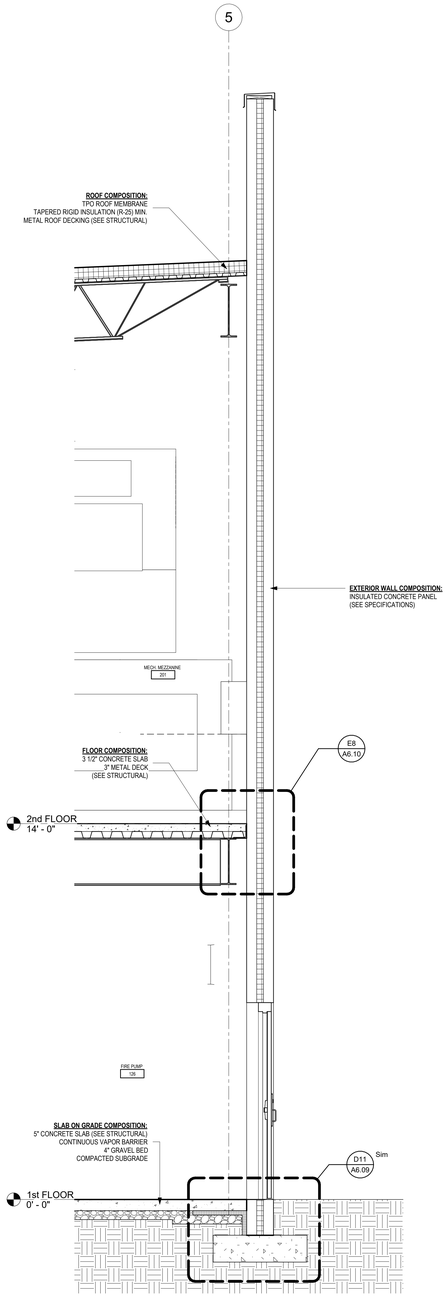
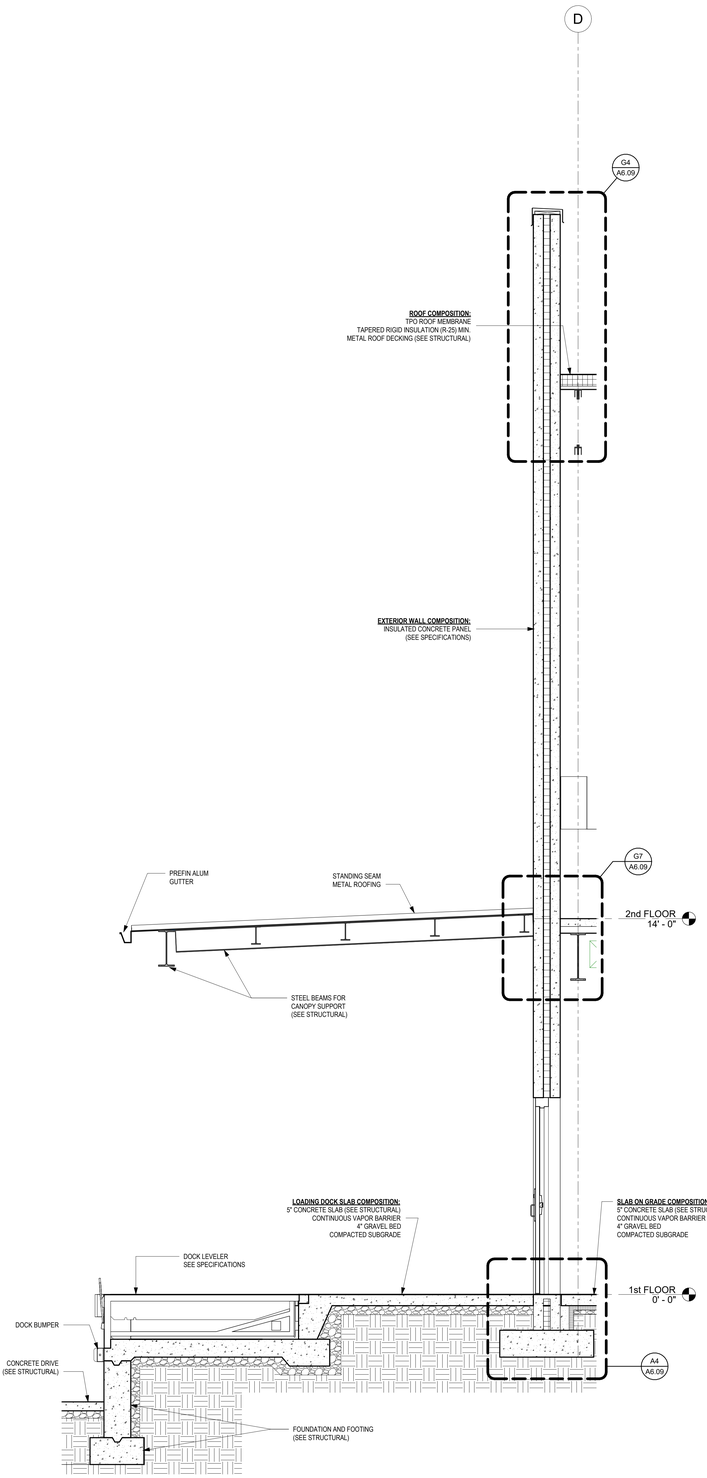
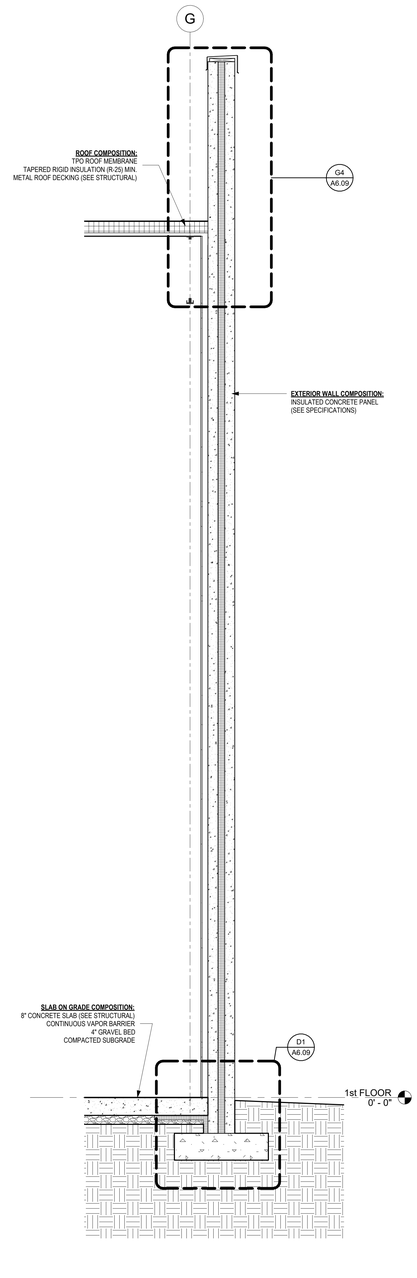


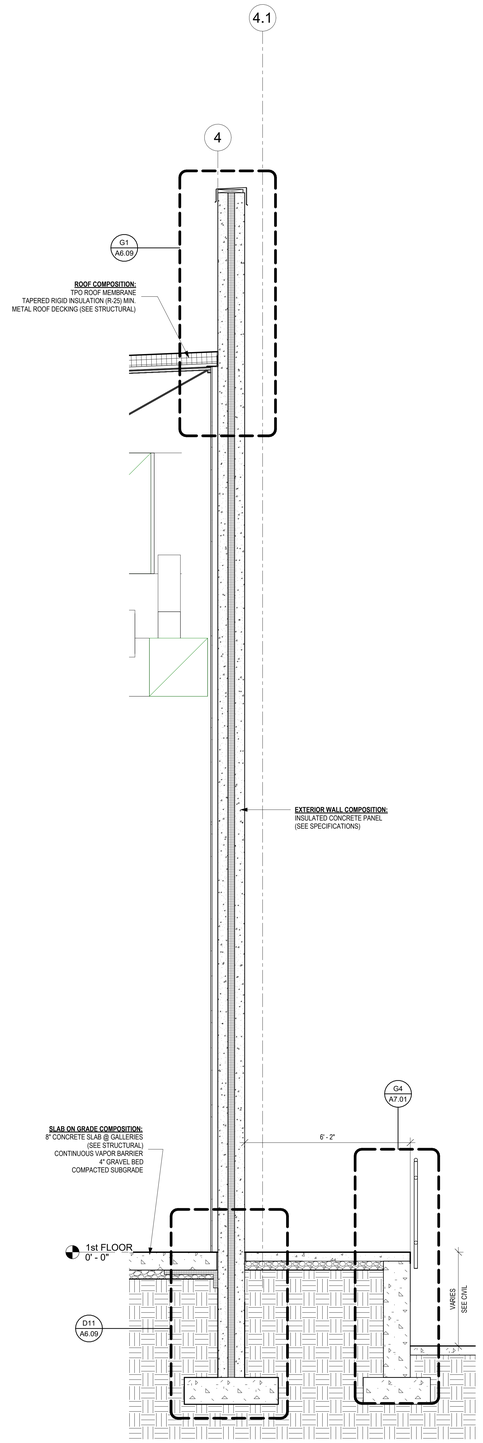
WALL SECTION @ FIRE PUMP 126 **A12**
1/2" = 1'-0"



WALL SECTION @ DOCK LEVELER **A7**
1/2" = 1'-0"



WALL SECTION @ LG. GALLERY 118 (SOUTH) **A4**
1/2" = 1'-0"



WALL SECTION @ LG. GALLERY 118 (EAST) **A1**
1/2" = 1'-0"

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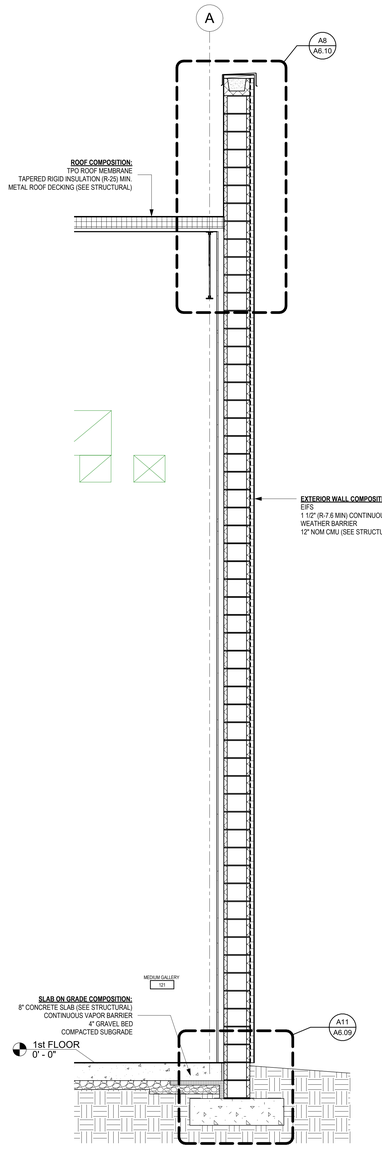
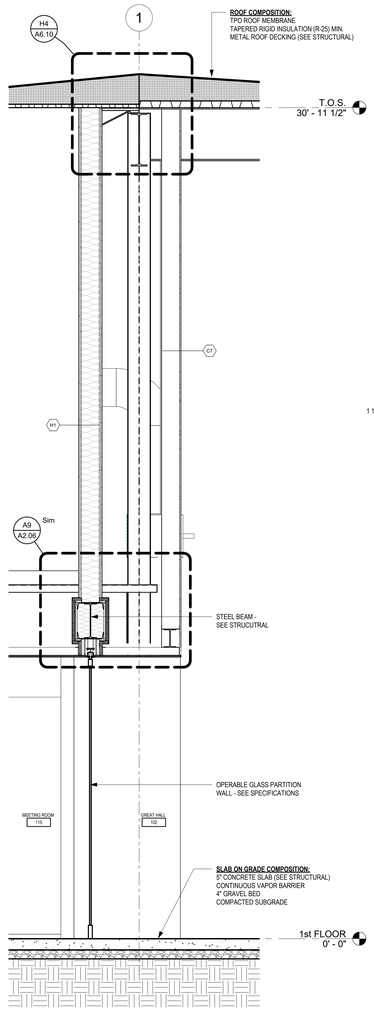
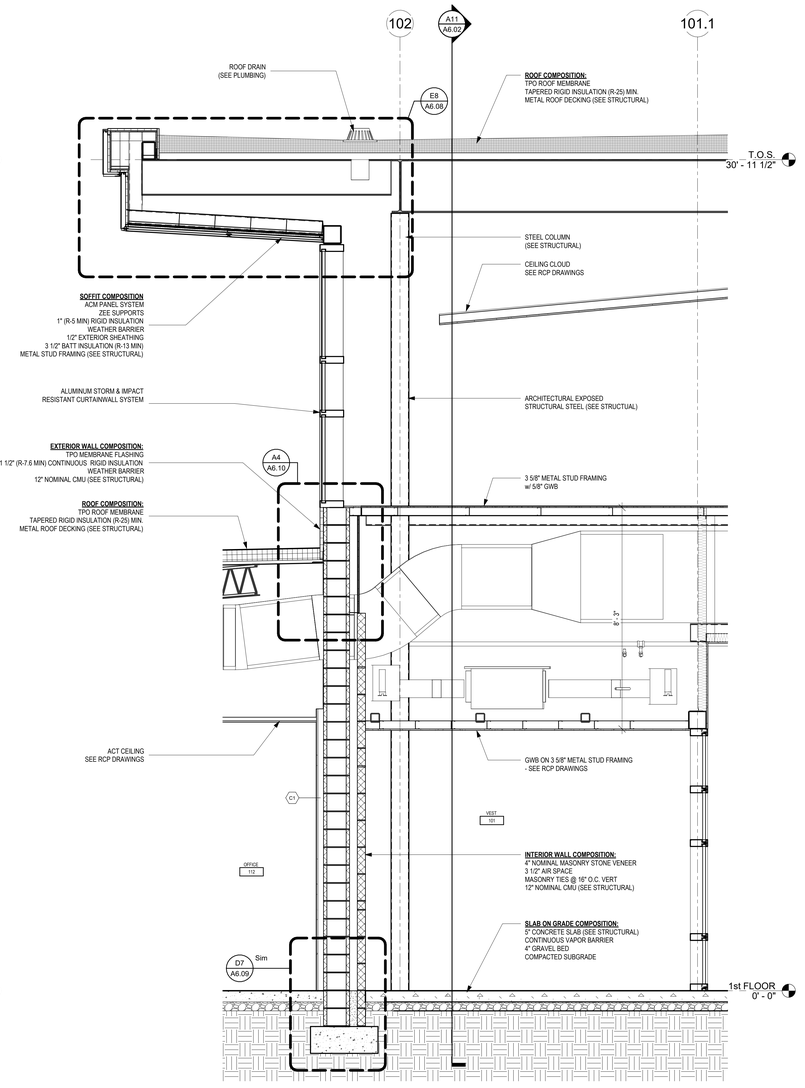


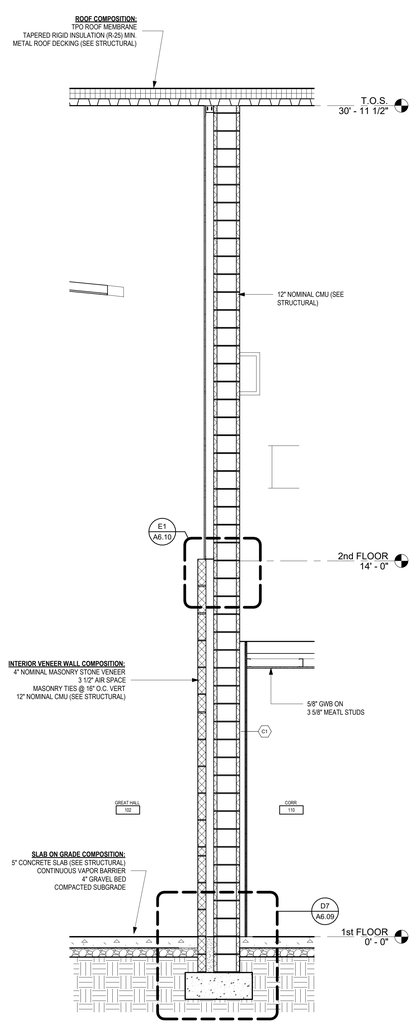
WALL SECTION @ MEDIUM GALLERY 121 **A12**
1/2" = 1'-0"



WALL SECTION @ MTG RM 115 / GREAT HALL **A9**
1/2" = 1'-0"



WALL SECTION @ SOUTH VESTIBULE 101 **A4**
1/2" = 1'-0"



WALL SECTION @ GREAT HALL / CORR. 110 **A1**
1/2" = 1'-0"

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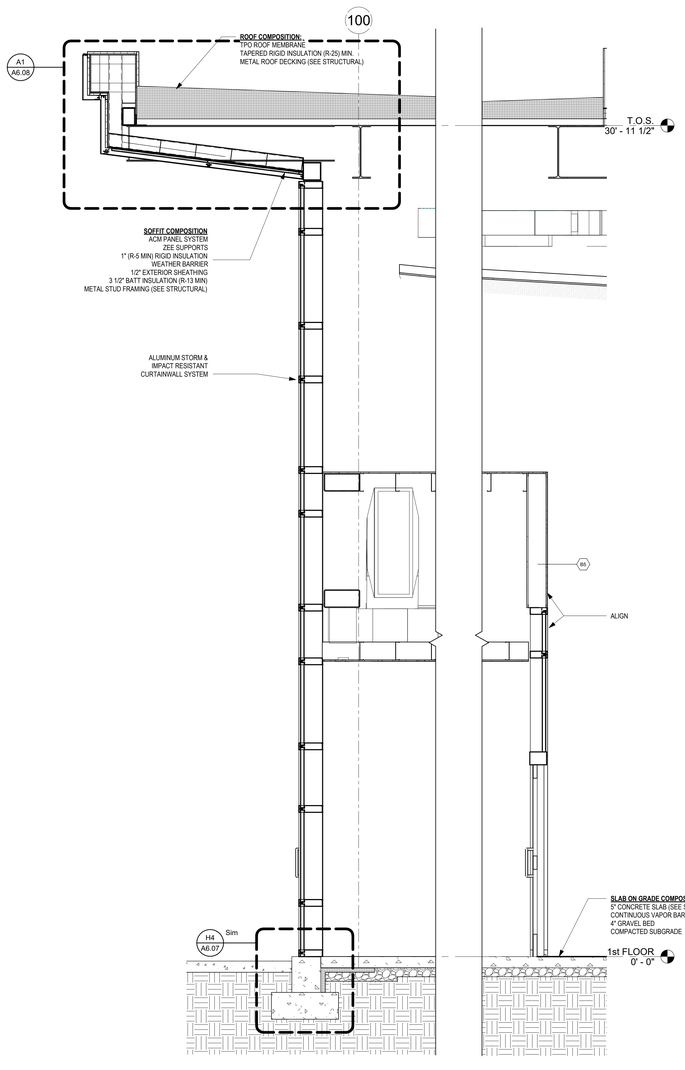
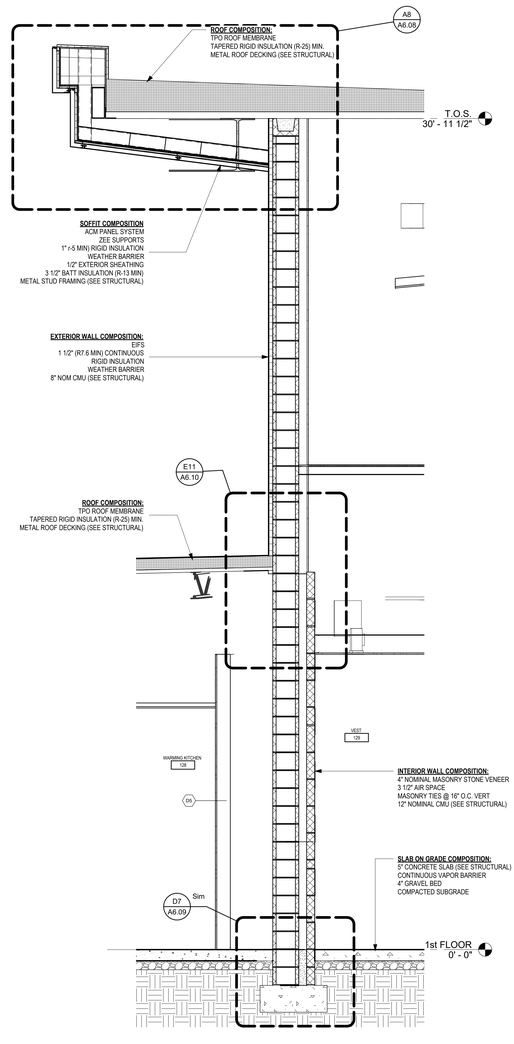
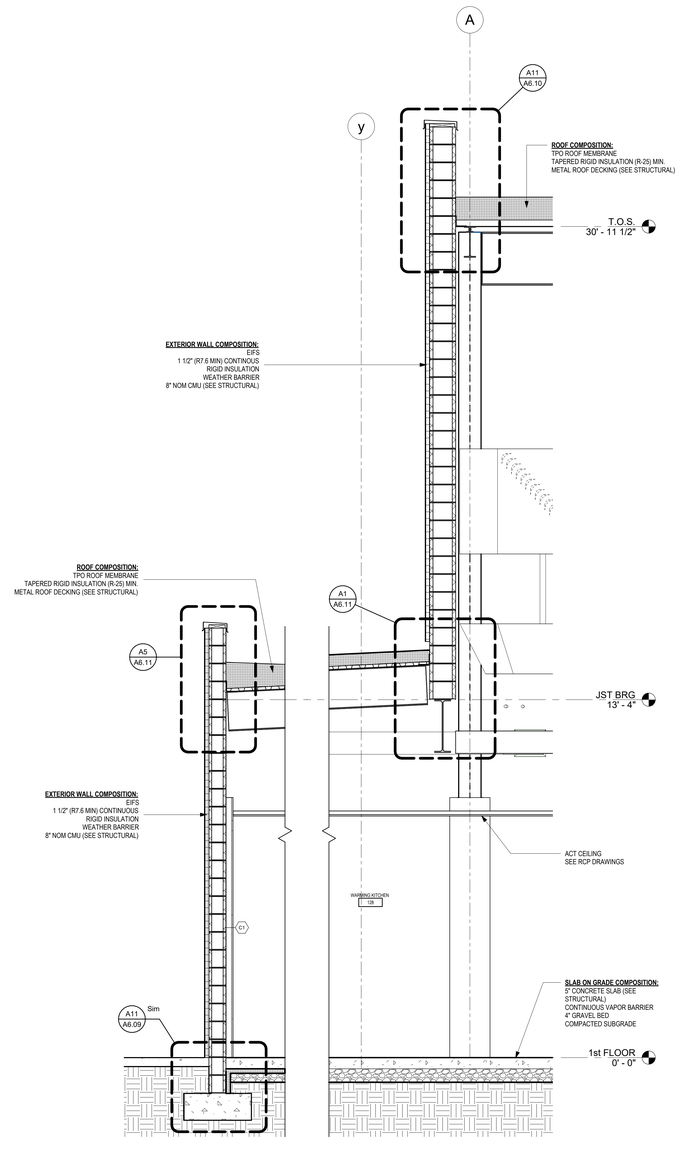


WALL SECTION @ N. VESTIBULE 129 **A10**
1/2" = 1'-0"



WALL SECTION @ N. VEST. 129 / WARMING KITCH. 128 **A6**
1/2" = 1'-0"



WALL SECTION @ WARMING KITCHEN 128 **A1**
1/2" = 1'-0"

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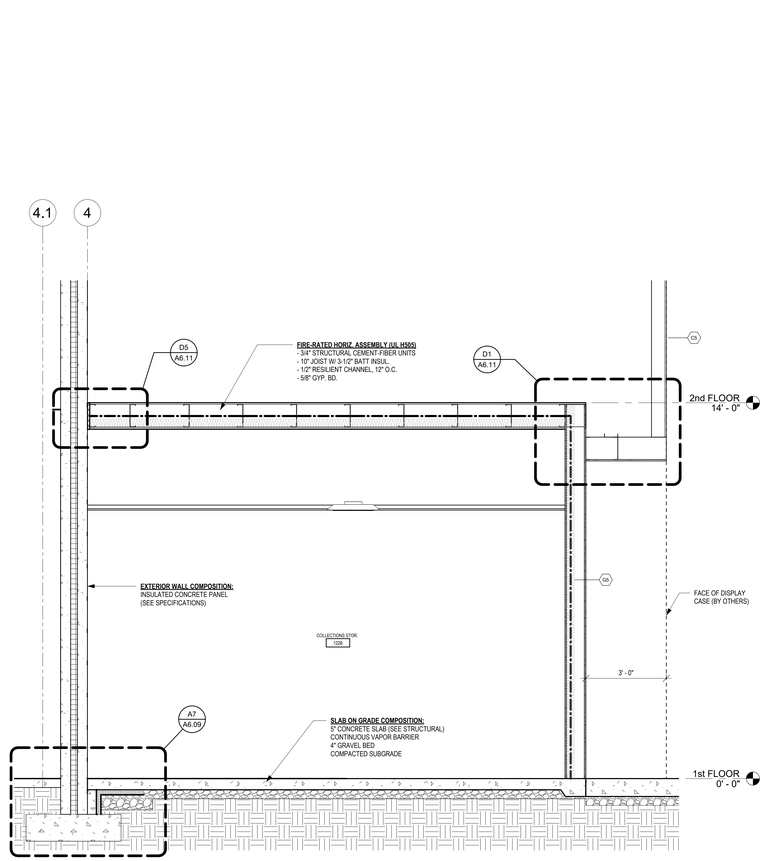
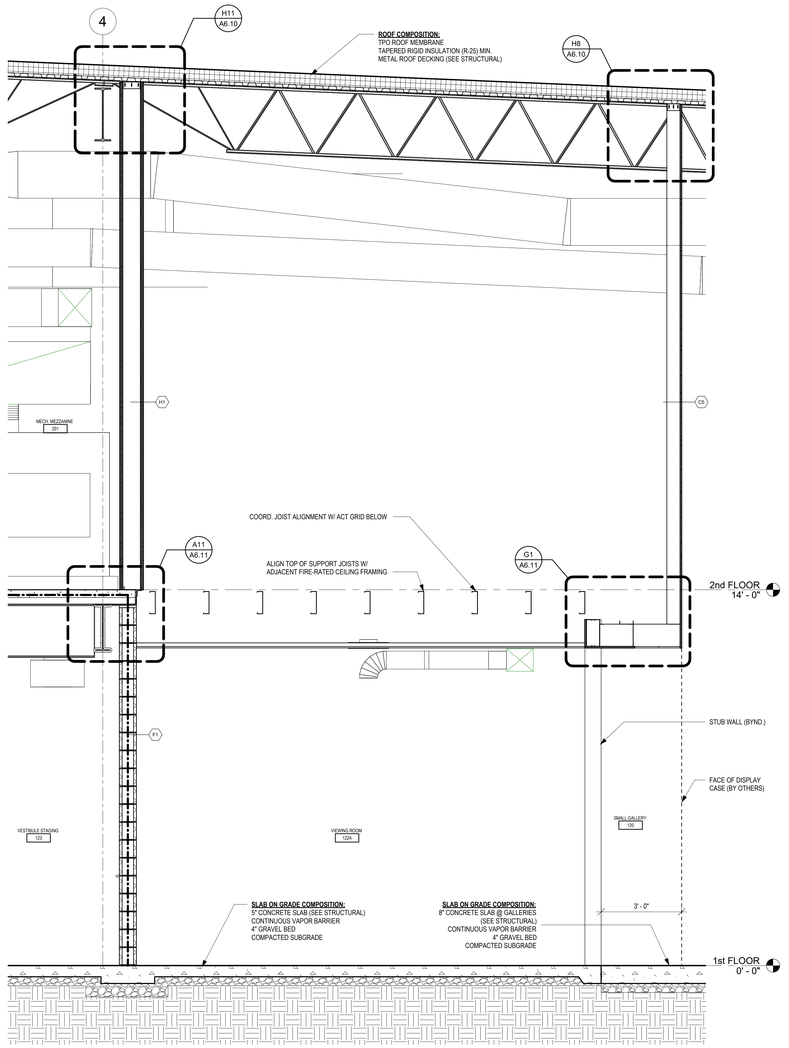
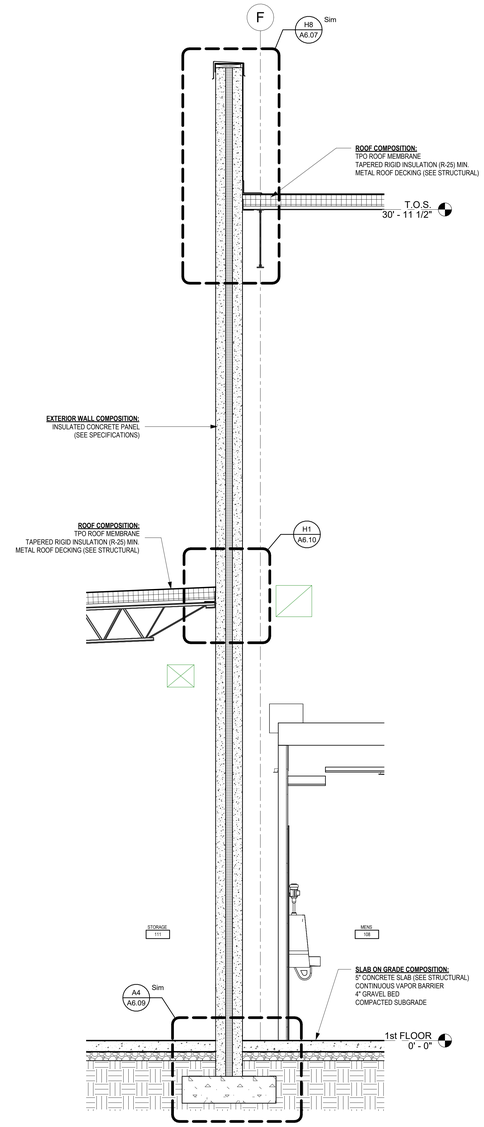


WALL SECTION @ COLLECTIONS STORAGE 122B **A10**
1/2" = 1'-0"



WALL SECTION @ VIEWING ROOM 122A **A4**
1/2" = 1'-0"



WALL SECTION @ STG. 111 & MENS 108 **A1**
1/2" = 1'-0"

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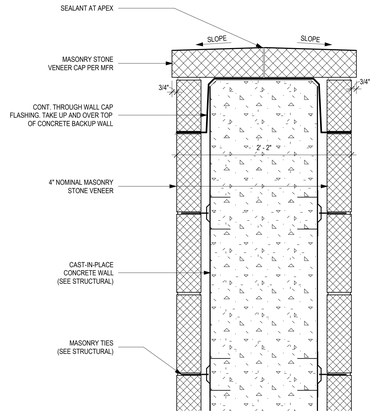
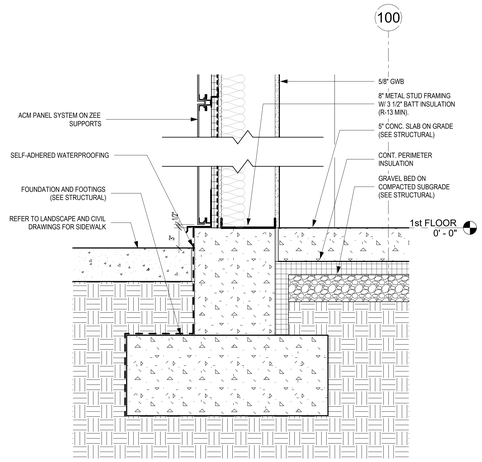
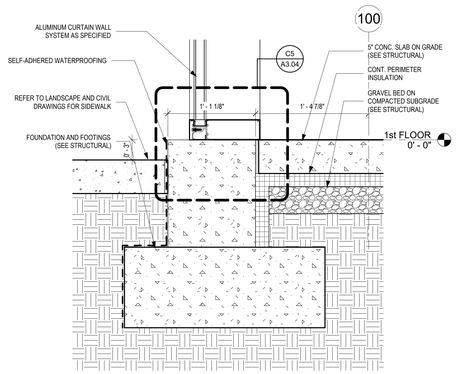


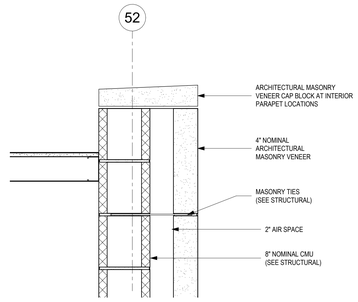
MASONRY STONE VENEER CAP H12
1 1/2" = 1'-0"



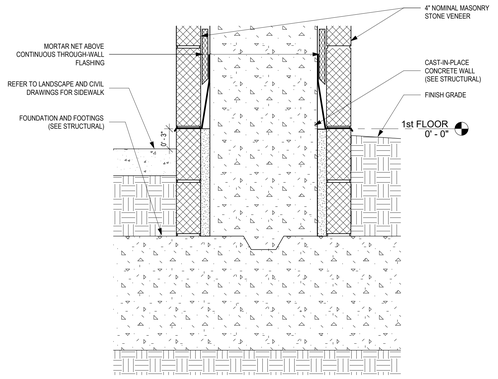
FOUNDATION @ GREAT HALL MTL PANEL H8
1 1/2" = 1'-0"



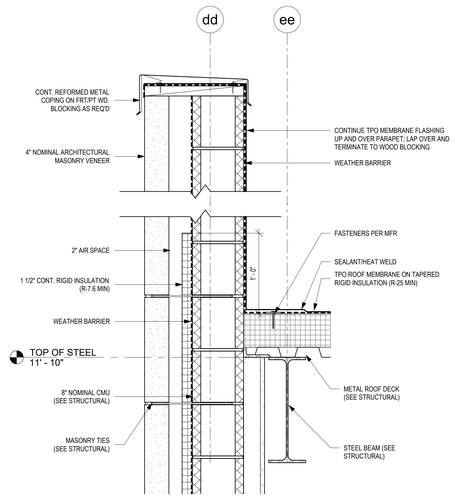
FOUNDATION @ GREAT HALL CW H4
1 1/2" = 1'-0"



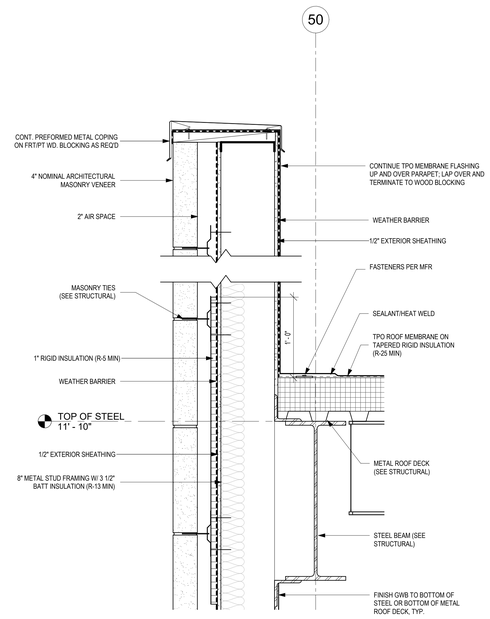
INTERIOR PARAPET @ AMV/CMU H1
1 1/2" = 1'-0"



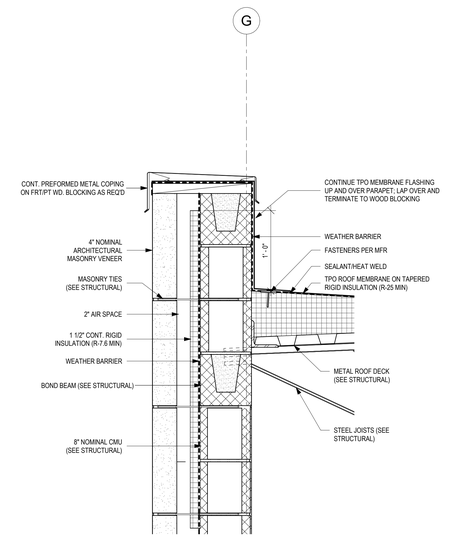
FOUNDATION @ S. MSV WALL D12
1 1/2" = 1'-0"



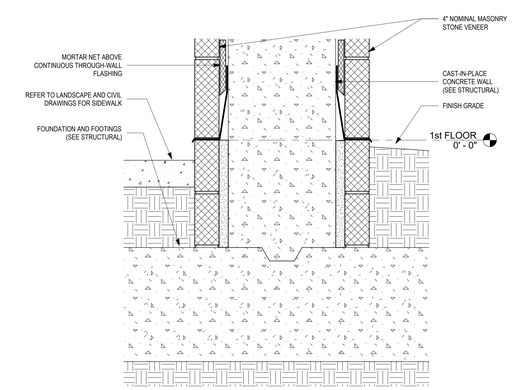
PARAPET @ ARCH MASONRY VENEER / CMU D8
1 1/2" = 1'-0"



PARAPET @ ARCH MASONRY VENEER / MTL STUD D4
1 1/2" = 1'-0"

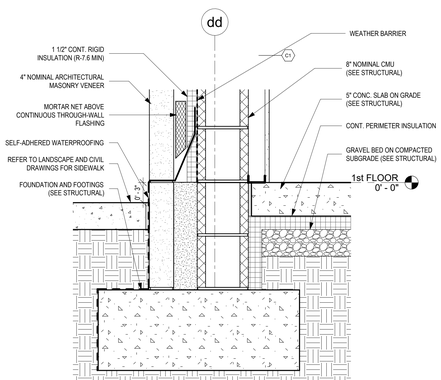


JOIST BEARING PARAPET @ AMV D1
1 1/2" = 1'-0"

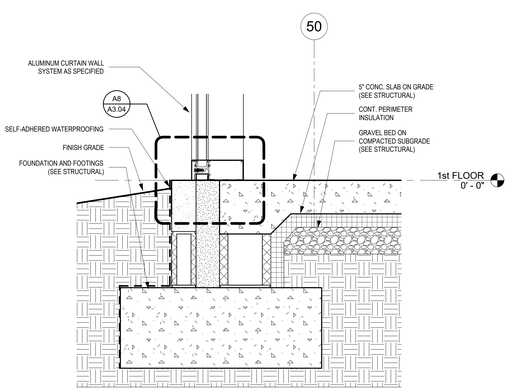


FOUNDATION @ N. MSV WALL A12
1 1/2" = 1'-0"

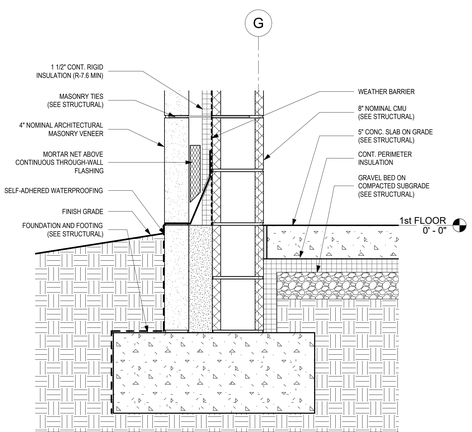
*M.S.V. = MASONRY STONE VENEER



FOUNDATION @ AMV / HARDSCAPE A8
1 1/2" = 1'-0"



FOUNDATION @ GIFT SHOP CW A4
1 1/2" = 1'-0"



FOUNDATION @ AMV / GRADE A1
1 1/2" = 1'-0"

*A.M.V. = ARCHITECTURAL MASONRY VENEER

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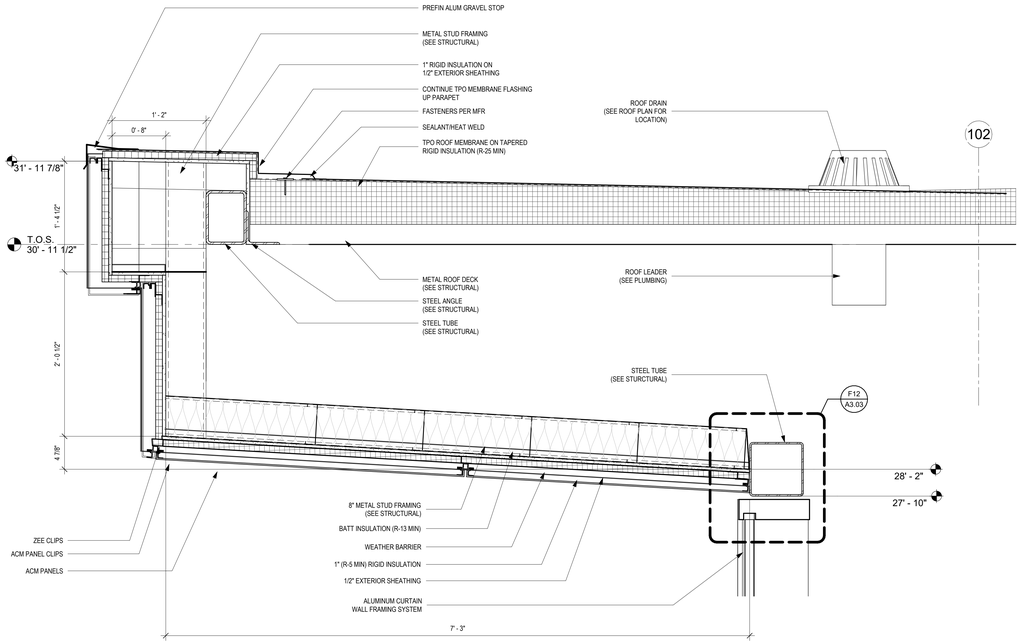
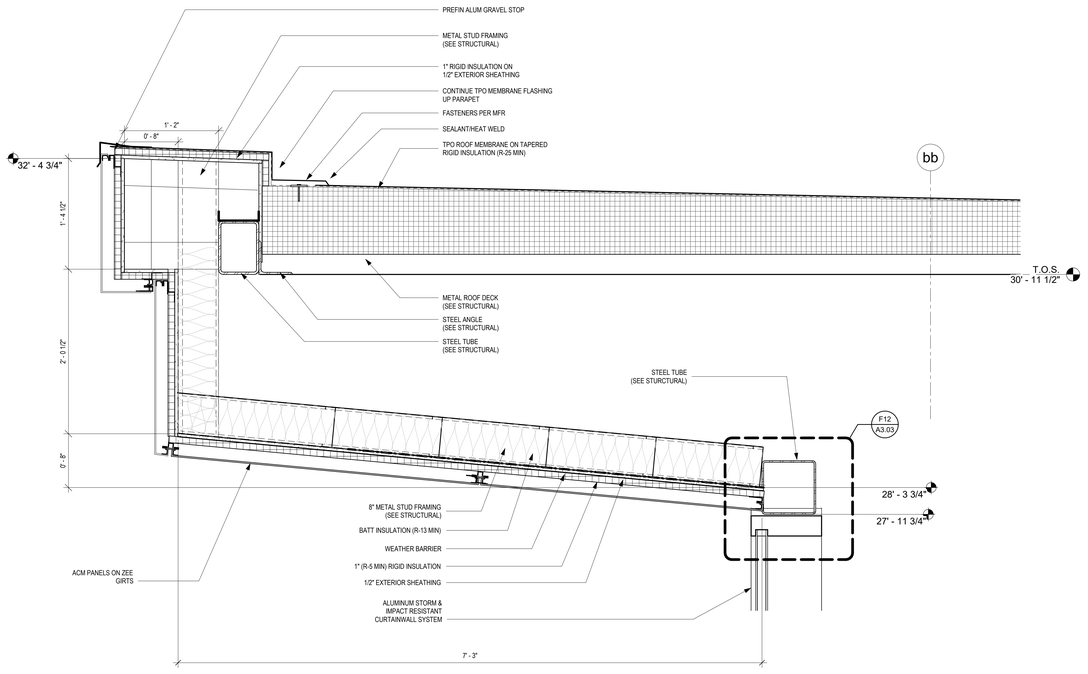
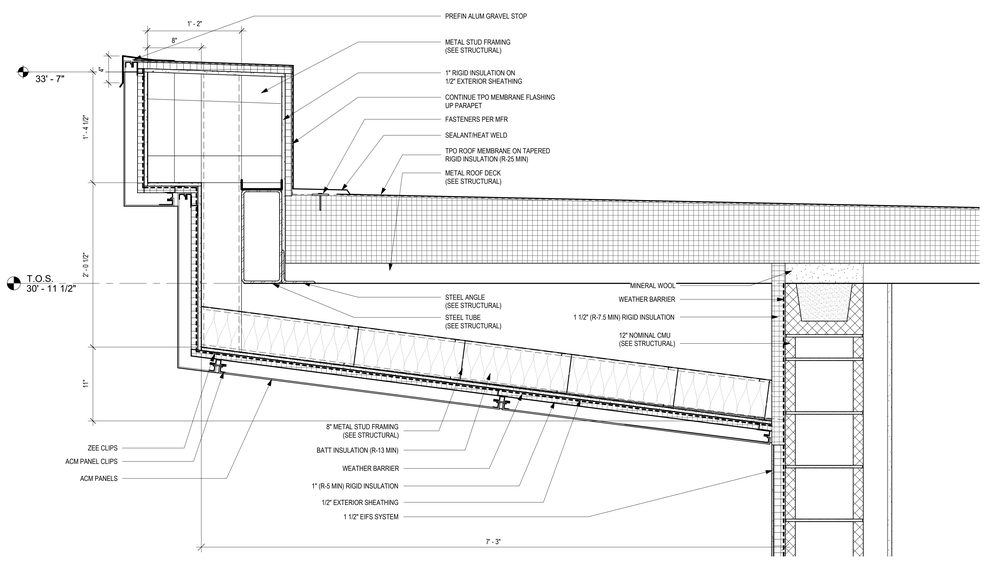


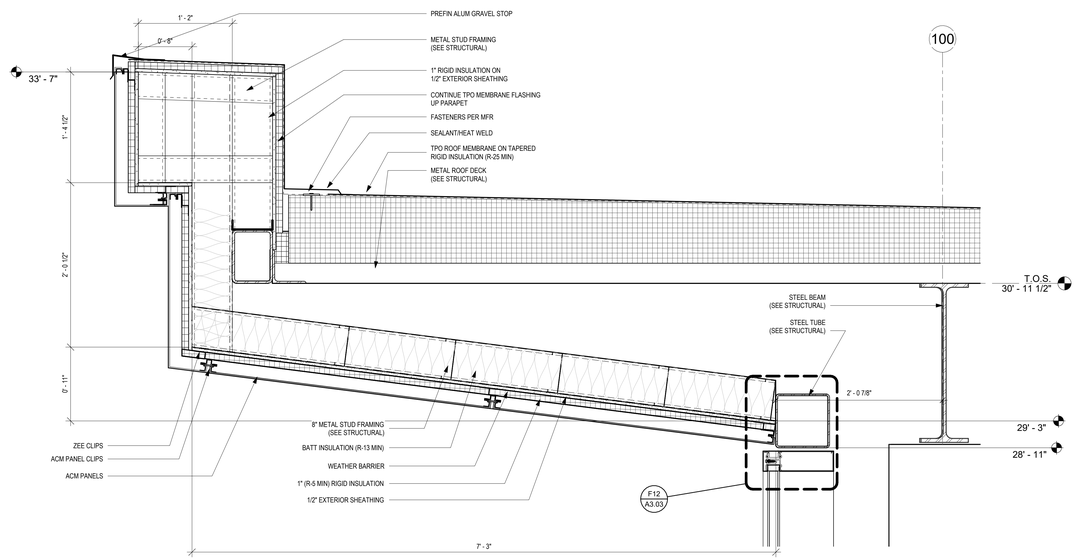
OVERHANG ABOVE LOW ROOF **E8**
1 1/2" = 1'-0"



OVERHANG @ ENTRY VESTIBULE **E1**
1 1/2" = 1'-0"



OVERHANG DETAIL @ CMU **A8**
1 1/2" = 1'-0"



OVERHANG DETAIL @ CURTAIN WALL **A1**
1 1/2" = 1'-0"

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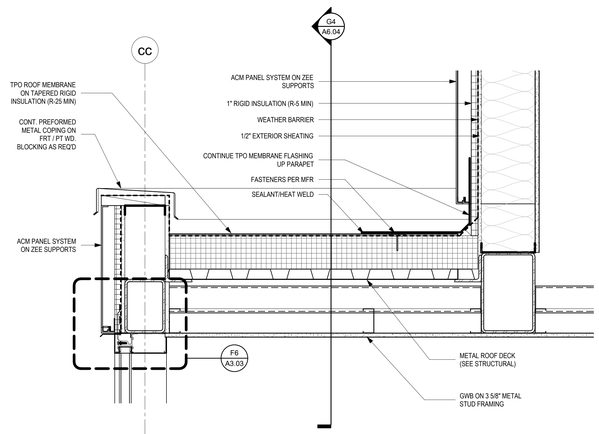
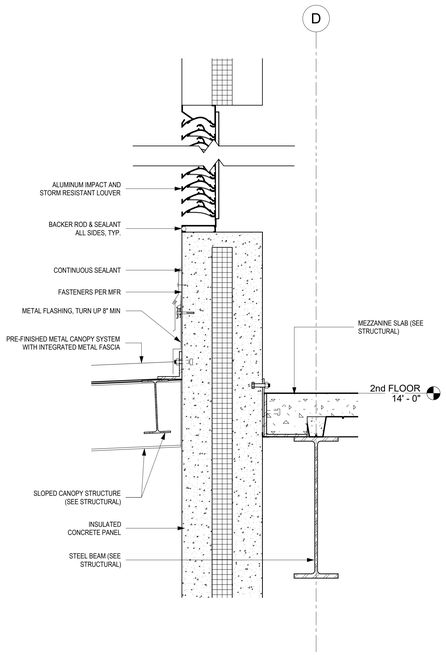
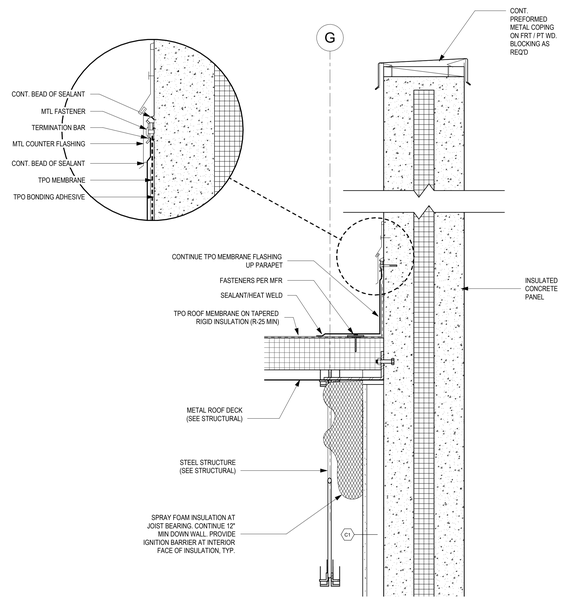


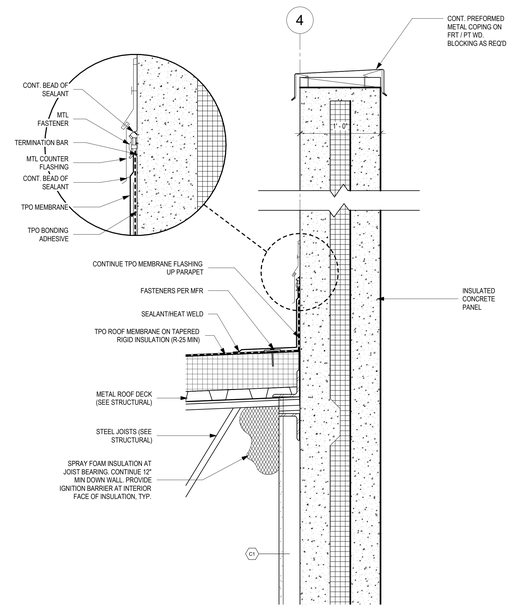
VESTIBULE ROOF DETAIL **H11**
1 1/2" = 1'-0"



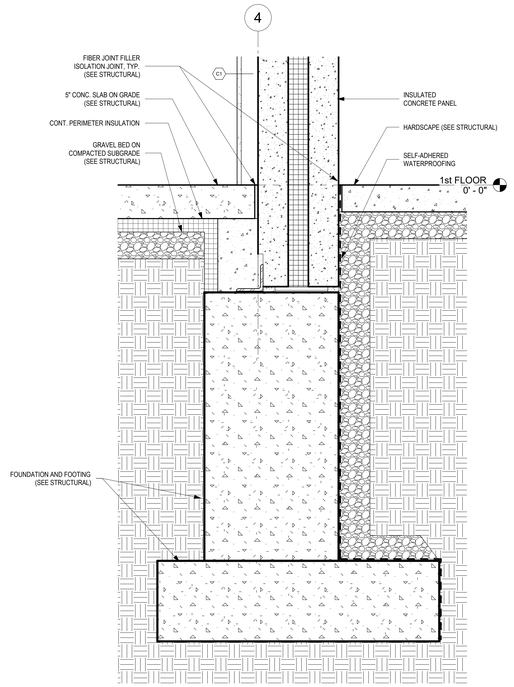
LOADING DOCK CANOPY **G7**
1 1/2" = 1'-0"



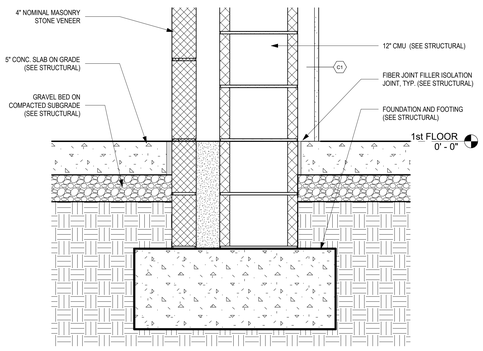
PARAPET @ PRECAST NON BEARING **G4**
1 1/2" = 1'-0"



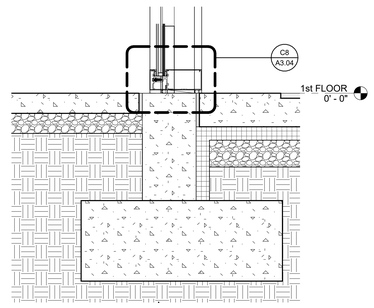
PARAPET @ PRECAST JOIST BEARING **G1**
1 1/2" = 1'-0"



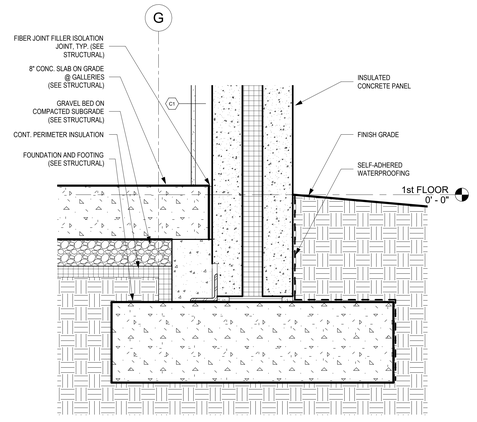
FOUNDATION @ PERIMETER PRECAST **D11**
1 1/2" = 1'-0"



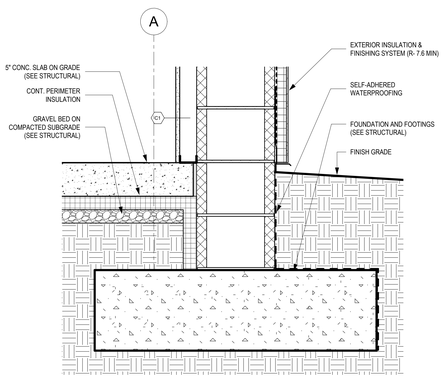
FOUNDATION @ M.S.V. CURVED WALL **D7**
1 1/2" = 1'-0"
**M.S.V. = MASONRY STONE VENEER*



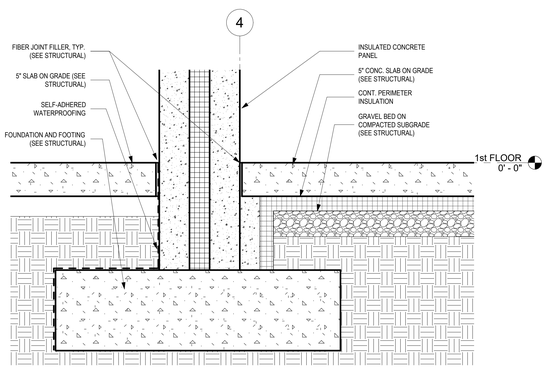
FOUNDATION @ VESTIBULE CW **D4**
1 1/2" = 1'-0"



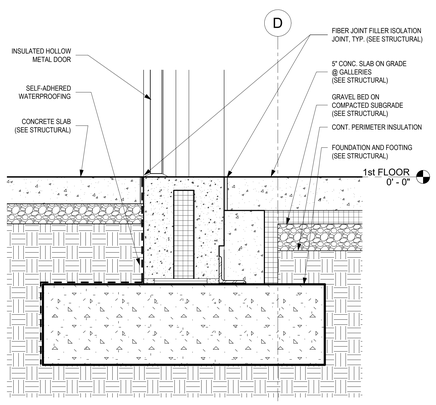
FOUNDATION @ PRECAST / GRADE **D1**
1 1/2" = 1'-0"



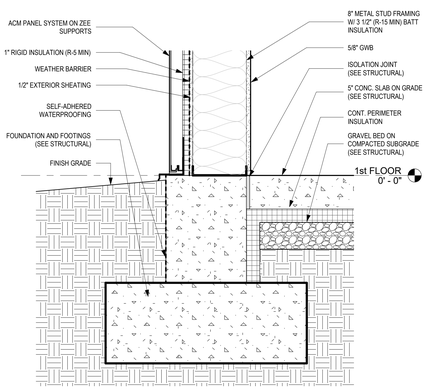
FOUNDATION @ EIFS **A11**
1 1/2" = 1'-0"



FOUNDATION @ COLLECTIONS STG. PRECAST **A7**
1 1/2" = 1'-0"



FOUNDATION @ PRECAST **A4**
1 1/2" = 1'-0"



FOUNDATION @ MTL PANEL / GRADE **A1**
1 1/2" = 1'-0"

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ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
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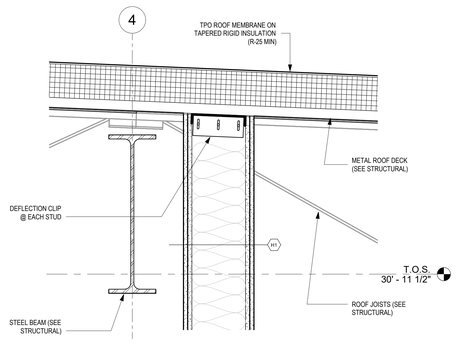
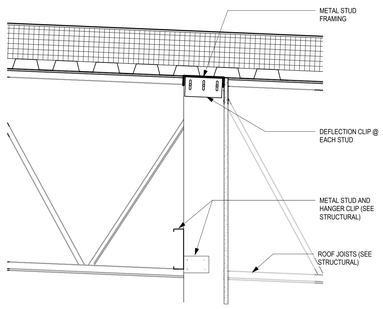
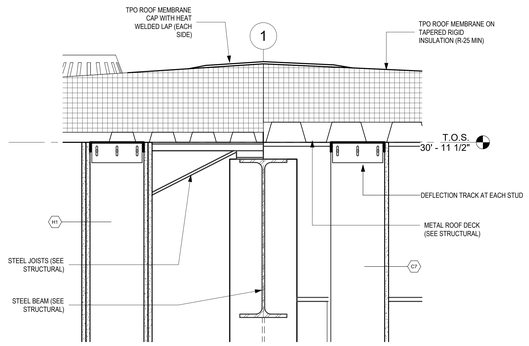


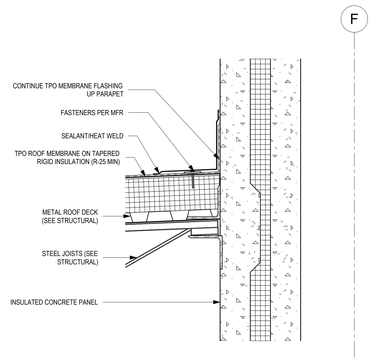
ROOF DETAIL @ MECH. MEZZ. **H11**
1 1/2" = 1'-0"



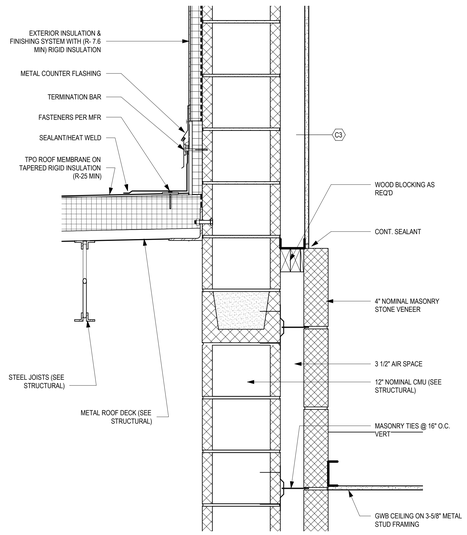
ROOF DETAIL @ SM. GALLERY 120 WALL **H8**
1 1/2" = 1'-0"



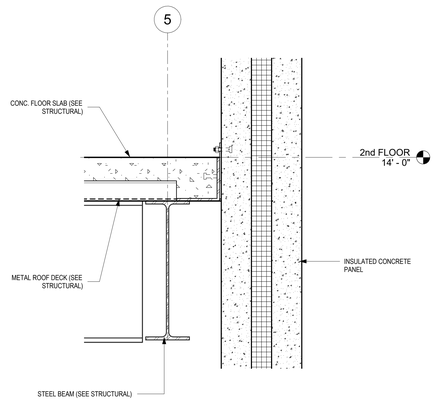
ROOF TRANSITION DETAIL **H4**
1 1/2" = 1'-0"



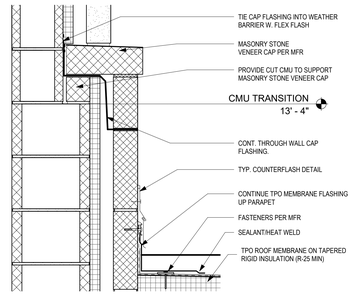
LOW ROOF @ PRECAST WALL **H1**
1 1/2" = 1'-0"



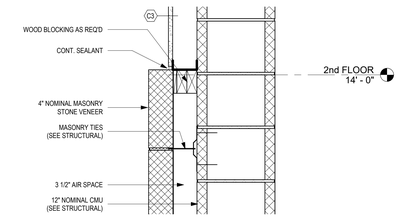
MASONRY STONE VENEER TRANSITION @ N. VESTIBULE **E11**
1 1/2" = 1'-0"



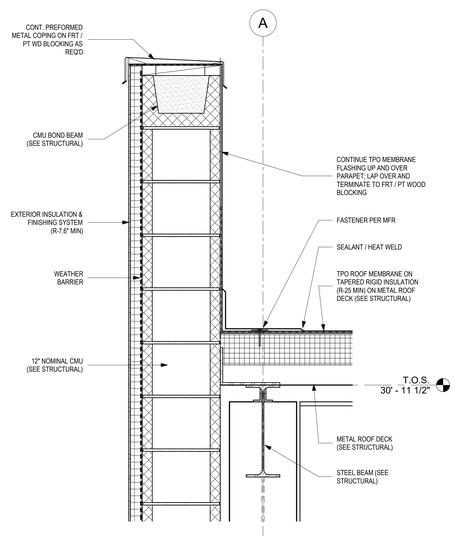
MEZZ @ PRECAST DETAIL **E8**
1 1/2" = 1'-0"



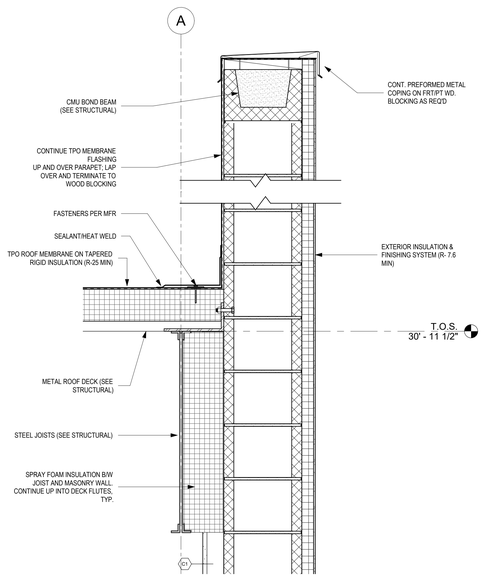
DETAIL @ PARAPET TRANSITION **E4**
1 1/2" = 1'-0"



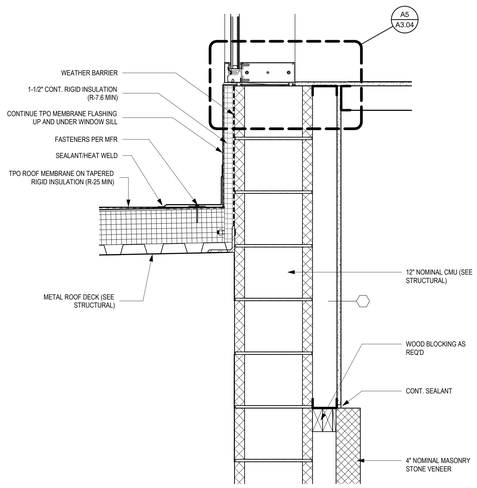
MASONRY STONE VENEER @ GWB TRANSITION **E1**
1 1/2" = 1'-0"



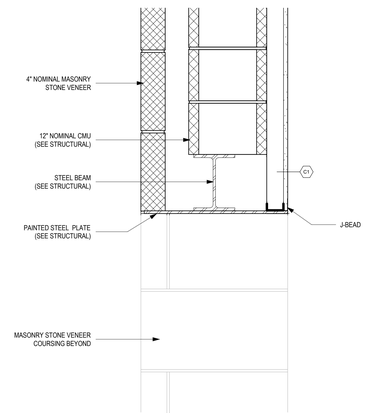
PARAPET @ EIFS / 12" CMU @ WARMING KITCHEN **A11**
1 1/2" = 1'-0"



ROOF CONNECTION @ MEDIUM GALLERY **A8**
1 1/2" = 1'-0"



LOW ROOF DETAIL @ CURTAIN WALL **A4**
1 1/2" = 1'-0"



HEAD @ MASONRY STONE VENEER OPENING **A1**
1 1/2" = 1'-0"

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A6.10

ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
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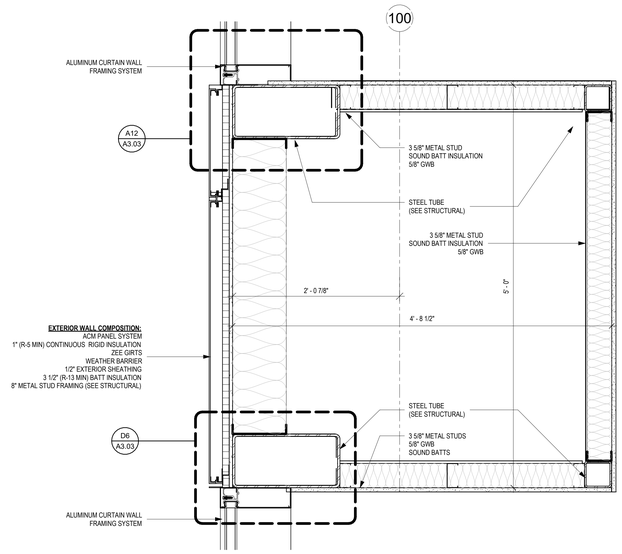
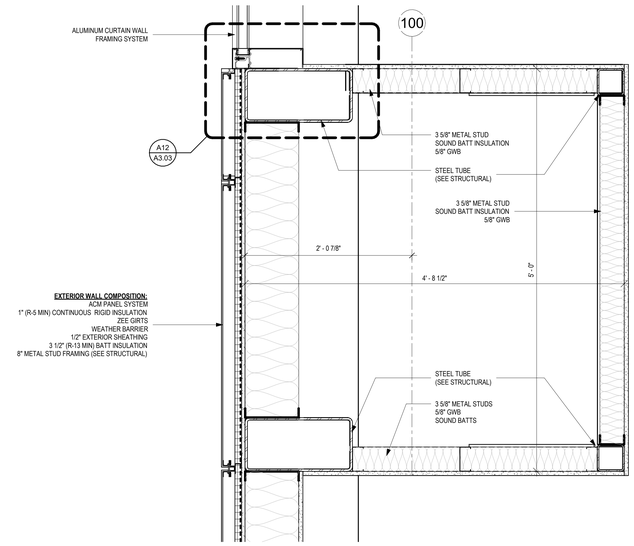
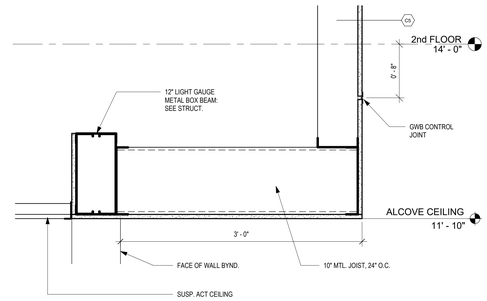


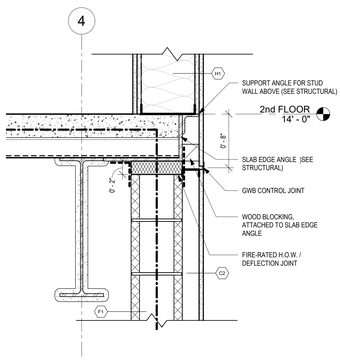
GREAT HALL BULKHEAD @ CW **G10**
1 1/2" = 1'-0"



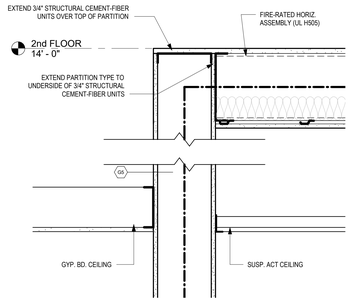
GREAT HALL BULKHEAD @ METAL PANEL **G5**
1 1/2" = 1'-0"



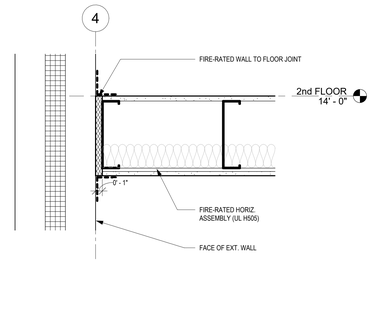
DETAIL @ ALCOVE HEAD **G1**
1 1/2" = 1'-0"



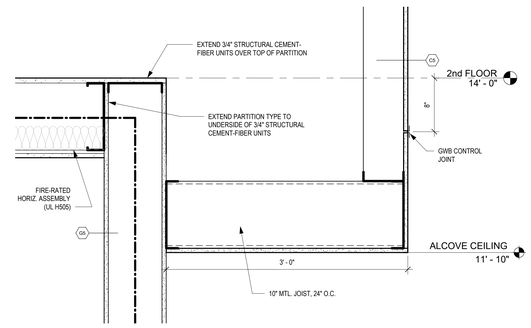
GWB CONTROL JOINT @ LINE 4 **D11**
1 1/2" = 1'-0"



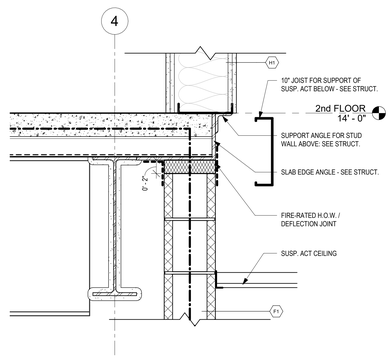
EDGE OF FIRE-RATED CLNG **D8**
1 1/2" = 1'-0"



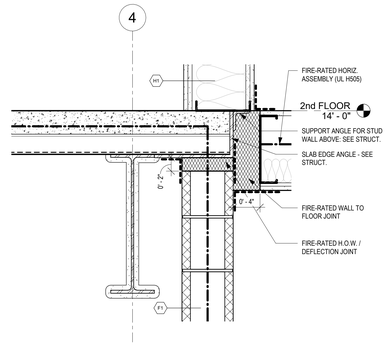
FIRE-RATED CAP - EXT. WALL **D5**
1 1/2" = 1'-0"



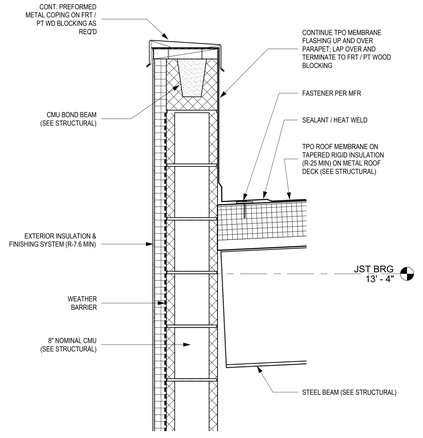
FIRE-RATED CAP - INT. WALL **D1**
1 1/2" = 1'-0"



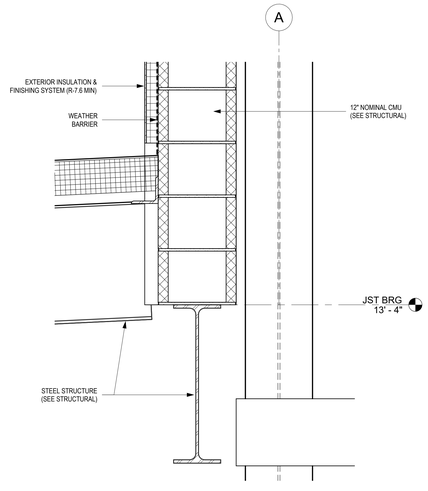
DETAIL @ CMU TO FLOOR @ LINE 4 **A11**
1 1/2" = 1'-0"



FIRE-RATED CEILING @ CMU **A8**
1 1/2" = 1'-0"



PARAPET @ EIFS / 8" CMU @ WARMING KITCH. **A5**
1 1/2" = 1'-0"



LOW ROOF CONNECTION @ WARMING KITCHEN **A1**
1 1/2" = 1'-0"

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A6.11

ISSUE DATE: 08-01-2023
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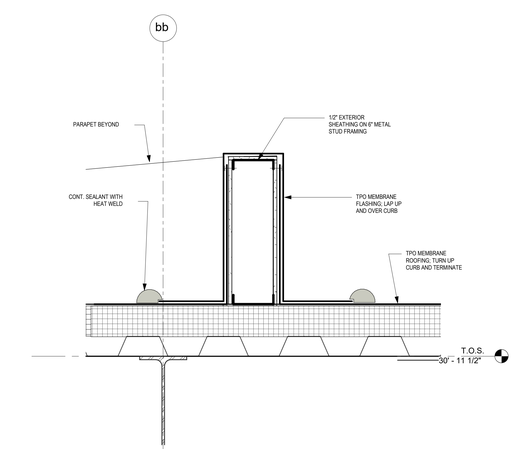
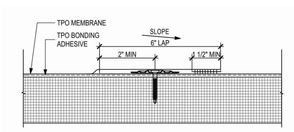
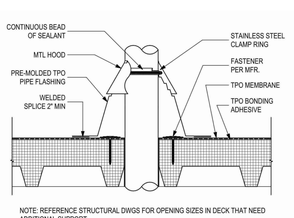


ROOF AREA DEVIDER A8
1 1/2" = 1'-0"

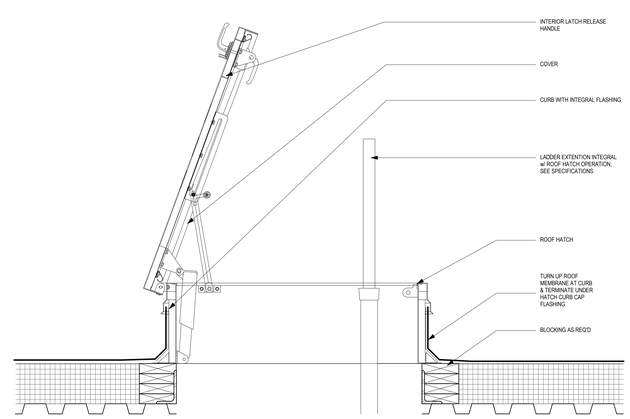


TYP LAP SPLICE C6
3" = 1'-0"



NOTE: REFERENCE STRUCTURAL DWGS FOR OPENING SIZES IN DECK THAT NEED ADDITIONAL SUPPORT.

TYP ROOF PENETRATION A6
3" = 1'-0"



ROOF HATCH SECTION A1
1 1/2" = 1'-0"

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ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
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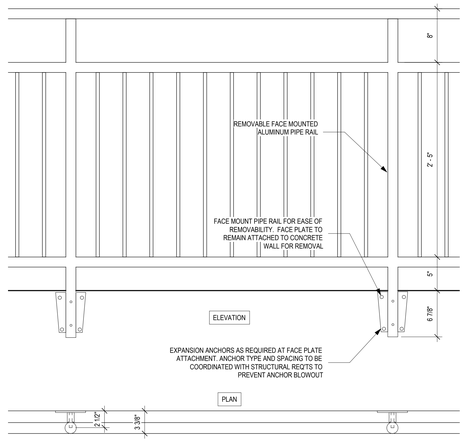
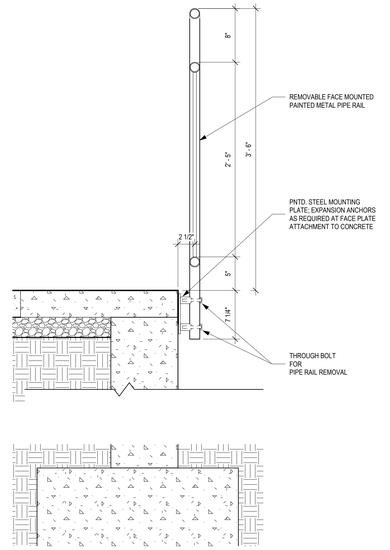
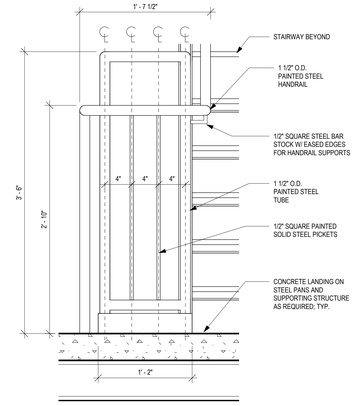


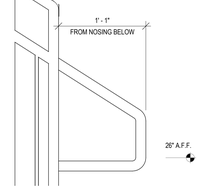
FACE MOUNTED RAILING DETAIL **G7**
1 1/2" = 1'-0"



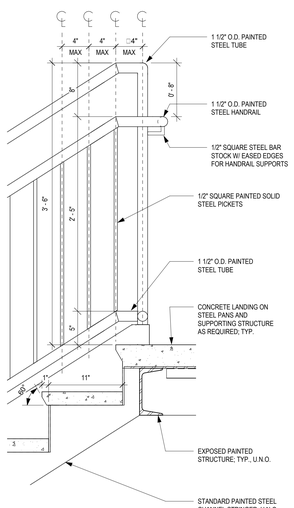
RAILING @ LOADING DOCK PLATFORM **G4**
1 1/2" = 1'-0"



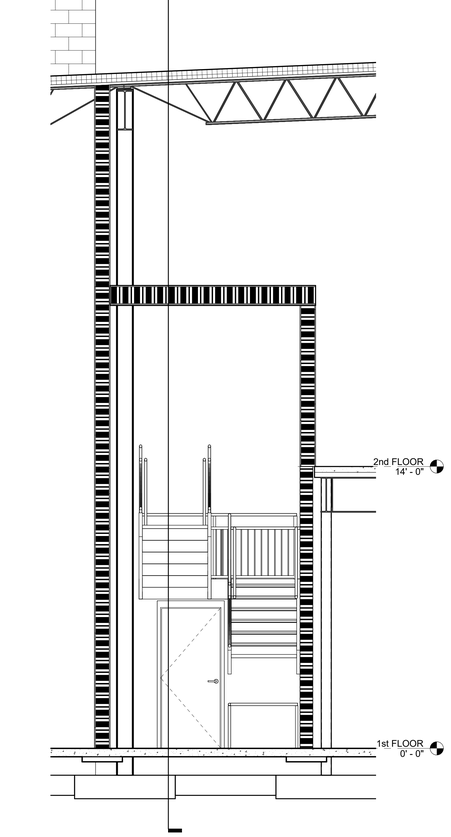
RAILING DETAIL @ STAIR LANDING **G1**
1 1/2" = 1'-0"



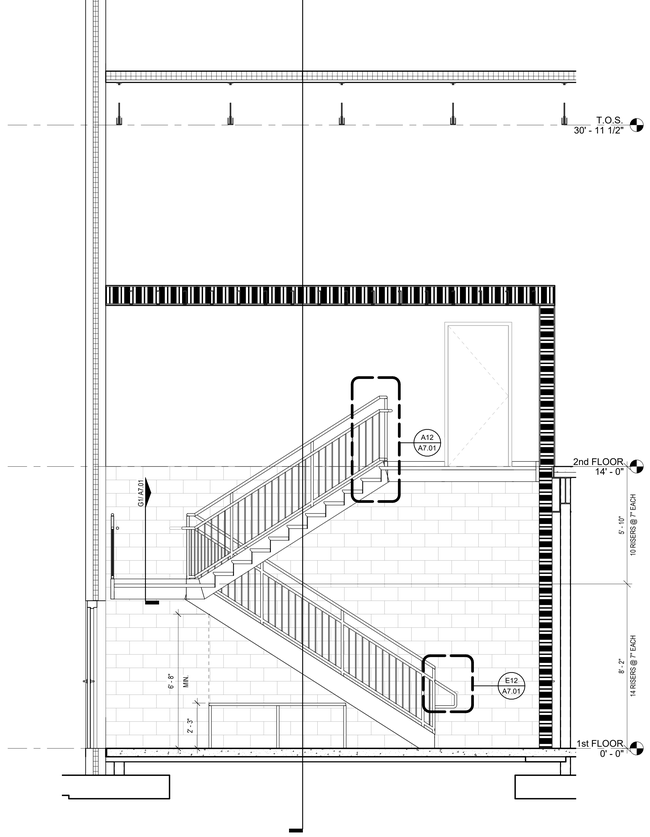
HANDRAIL EXT. DETAIL **E12**
1 1/2" = 1'-0"



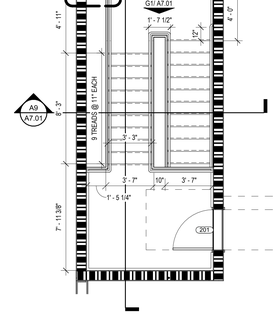
RAILING DETAIL **A12**
1 1/2" = 1'-0"



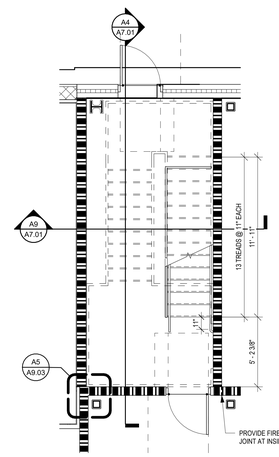
MECHANICAL MEZZ STAIR SECTION **A9**
3/8" = 1'-0"



MECHANICAL MEZZ STAIR CROSS SECTION **A4**
3/8" = 1'-0"



MECHANICAL MEZZ STAIR - 2nd FLOOR **D3**
1/4" = 1'-0"



MAIN LEVEL - MECHANICAL MEZZ STAIR **A1**
1/4" = 1'-0"

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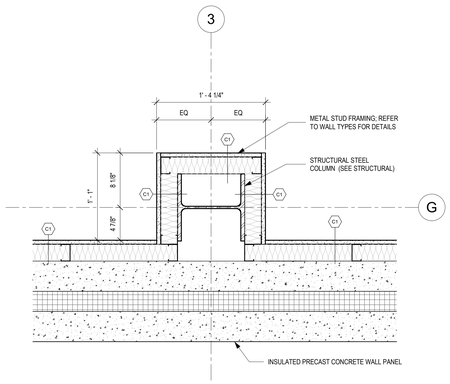
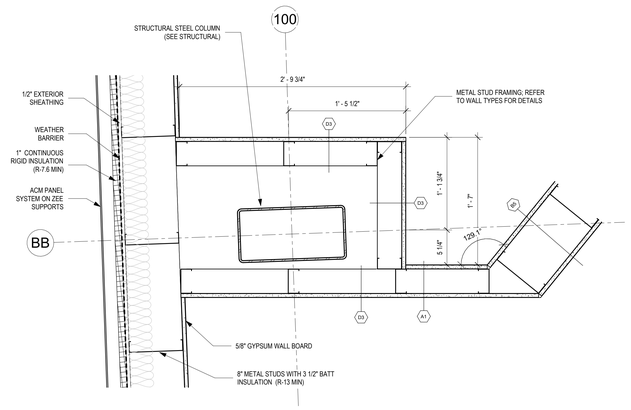
ENLARGED STAIR PLANS AND DETAILS

A7.01

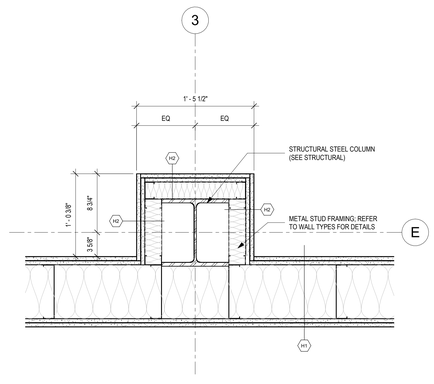
ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: Author
CHECKED BY: Checker



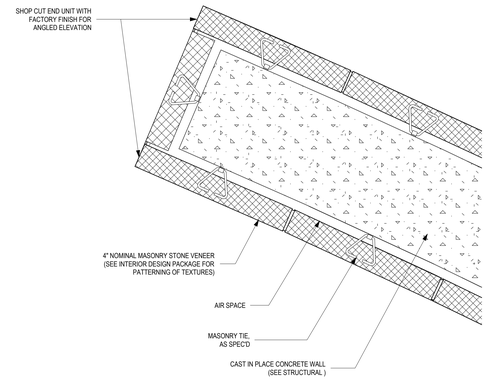
PLAN DETAIL @ COLUMN WRAP **H11**
1 1/2" = 1'-0"



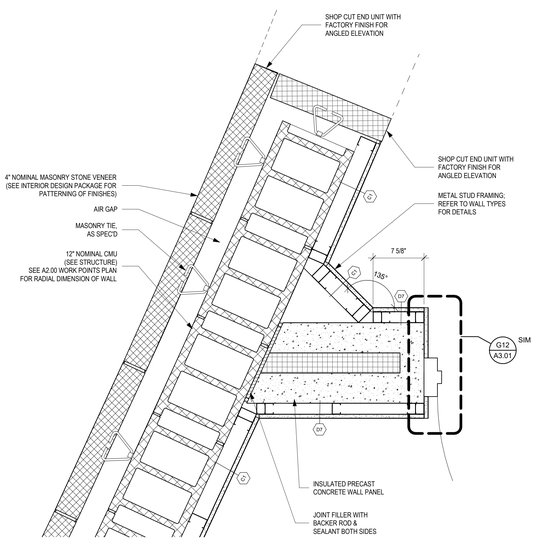
PLAN DETAIL @ NORTH VESTIBULE COLUMN **H7**
1 1/2" = 1'-0"



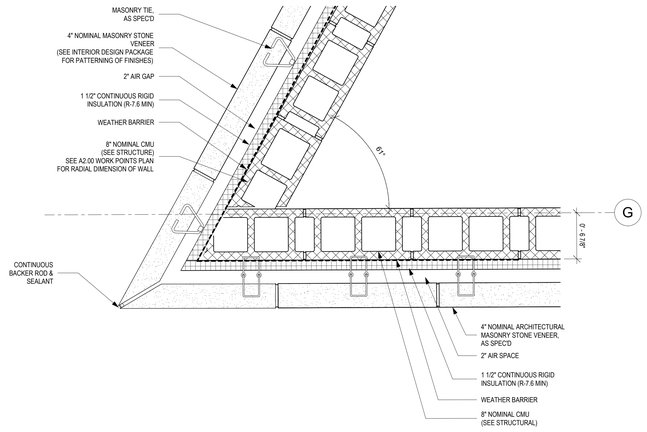
PLAN DETAIL @ COLUMN WRAP **H4**
1 1/2" = 1'-0"



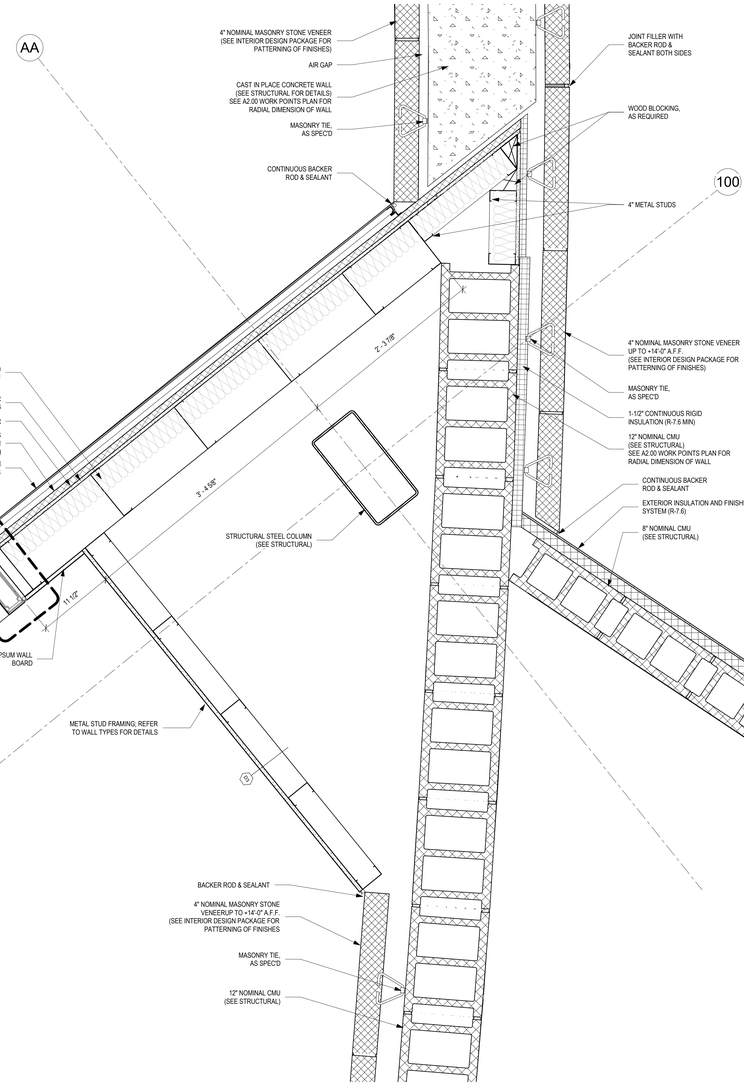
PLAN DETAIL @ END OF CURVED WALL N **H1**
1 1/2" = 1'-0"



PLAN DETAIL @ CURVED WALL JOINT (HIGH) **E11**
1 1/2" = 1'-0"

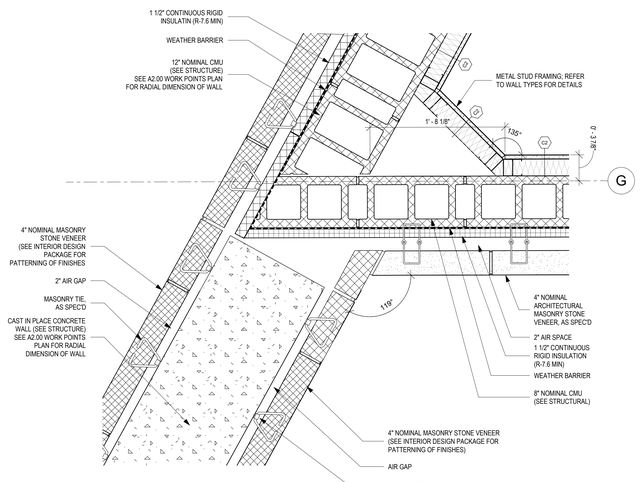


PLAN DETAIL @ CURVED WALL INTERSECTION S (HIGH) **E7**
1 1/2" = 1'-0"



PLAN DETAIL @ N. VESTIBULE CURVED WALL INTERSECTION (HIGH) **A1**
1 1/2" = 1'-0"

PLAN DETAIL @ CURVED WALL JOINT (LOW) **A11**
1 1/2" = 1'-0"



PLAN DETAIL @ CURVED WALL INTERSECTION S (LOW) **A7**
1 1/2" = 1'-0"

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PLAN DETAILS

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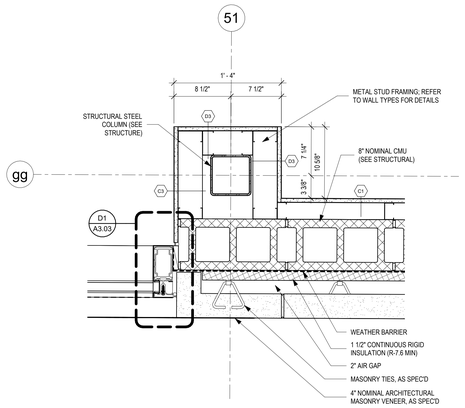
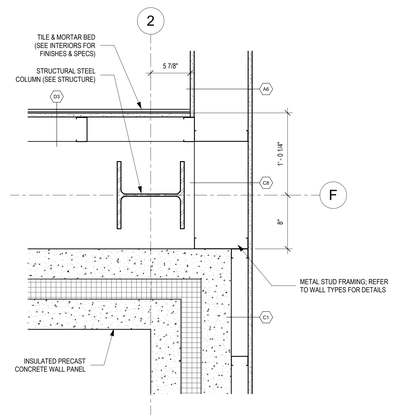
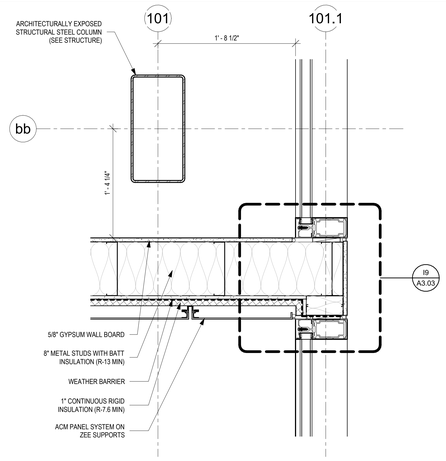


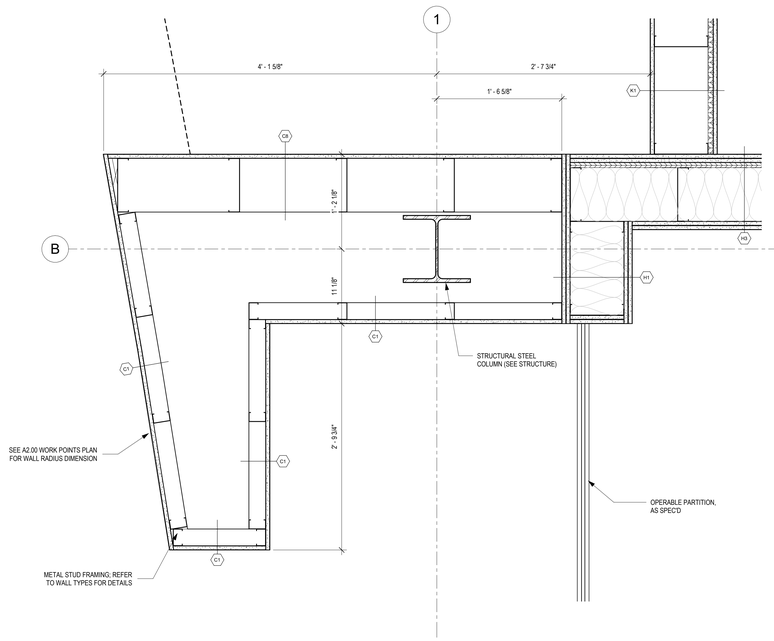
PLN DTL @ GIFT SHOP COLUMN WRAP (LOW) **H12**
1 1/2" = 1'-0"



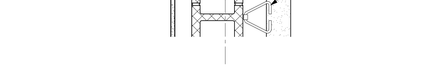
PLAN DETAIL @ CHASE & COLUMN **H9**
1 1/2" = 1'-0"



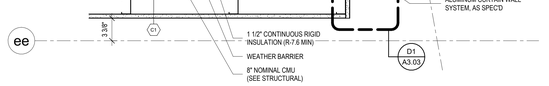
PLAN DETAIL @ ENTRY VESTIBULE CW **H6**
1 1/2" = 1'-0"



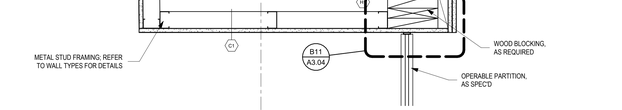
PLAN DETAIL @ OPERABLE PARTITION STACKING NORTH **G1**
1 1/2" = 1'-0"



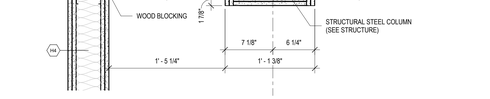
PLAN DETAIL @ CAST STONE OPENING **E12**
1 1/2" = 1'-0"



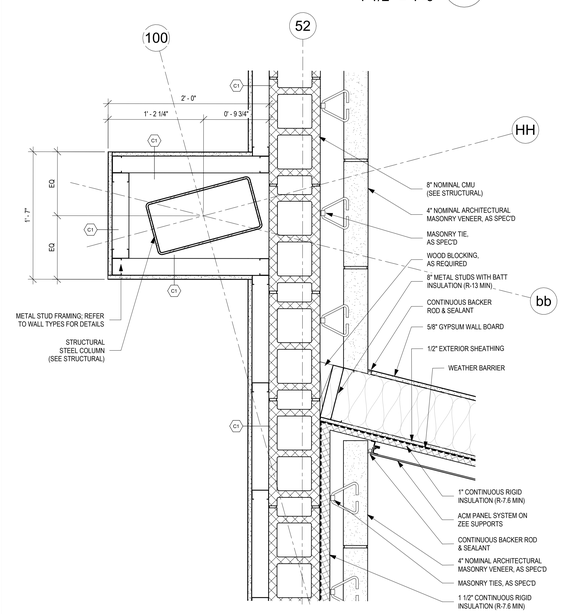
PLAN DTL @ N GIFT SHOP WALL INTERSECT **E8**
1 1/2" = 1'-0"



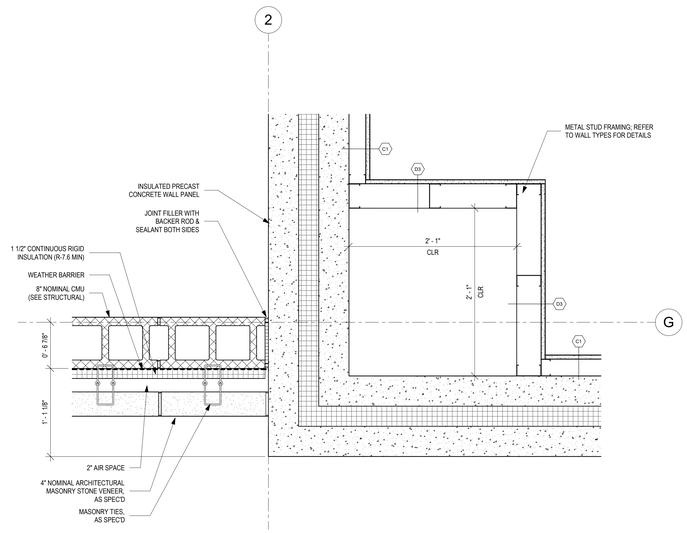
COLUMN DETAIL @ OPERABLE PARTITION WEST **E4**
1 1/2" = 1'-0"



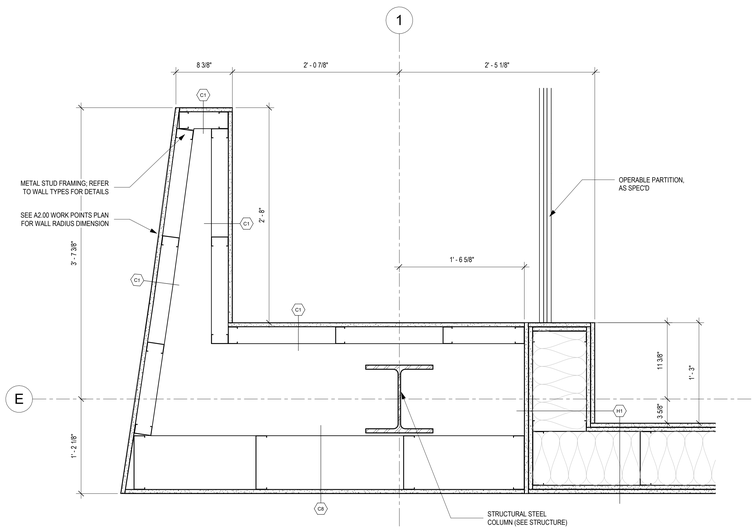
PLAN DETAIL @ OPERABLE PARTITION EAST **E1**
1 1/2" = 1'-0"



PLAN DETAIL @ CAFE & GREAT HALL INTERSECTION **A11**
1 1/2" = 1'-0"



PLAN DETAIL @ CONCRETE TO CMU **A6**
1 1/2" = 1'-0"



PLAN DETAIL @ OPERABLE PARTITION STACKING SOUTH **A1**
1 1/2" = 1'-0"

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A9.02

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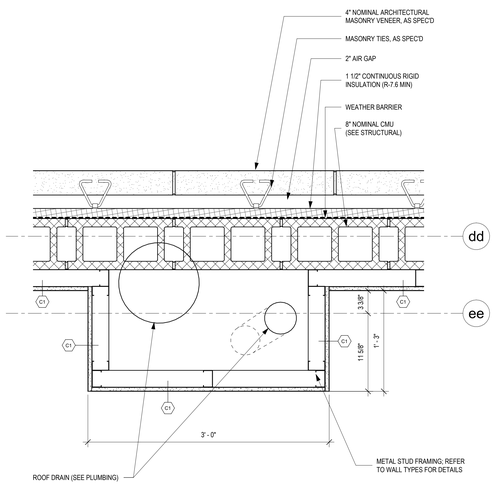
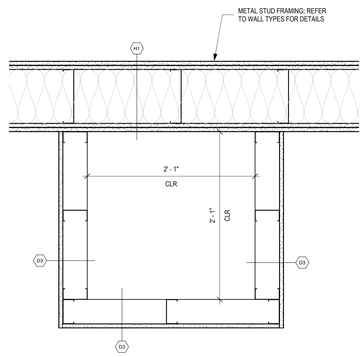
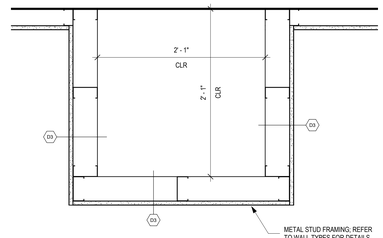


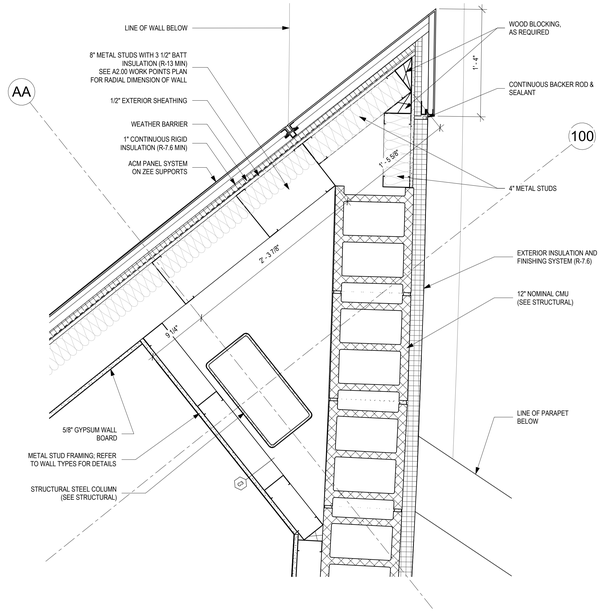
PLAN DETAIL @ OVERFLOW CHASE **G12**
1 1/2" = 1'-0"



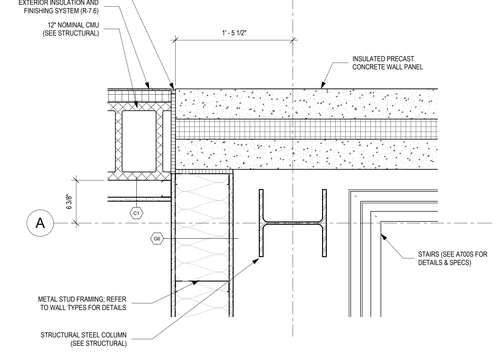
TYP PLN DTL @ ACOUSTIC WALL & MECHANICAL RETURN **G8**
1 1/2" = 1'-0"



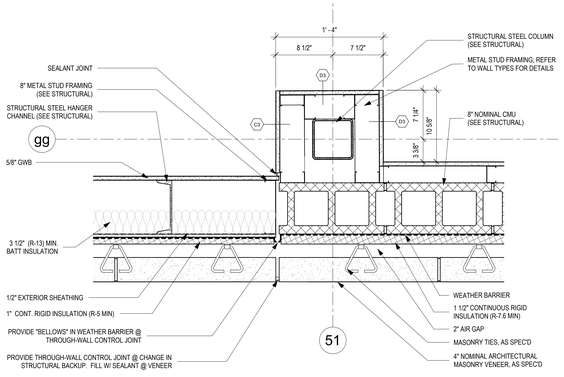
TYP PLN DTL @ MECHANICAL RETURN **G5**
1 1/2" = 1'-0"



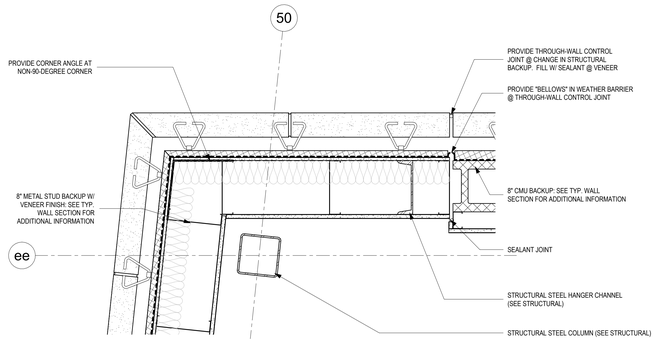
PLN DTL @ N. VESTIBULE CURVED WALL INTERSECTION (HIGH) **G1**
1 1/2" = 1'-0"



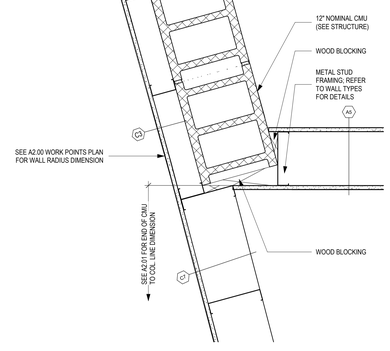
COLUMN PLAN DETAIL @ GRID A, 4 **D12**
1 1/2" = 1'-0"



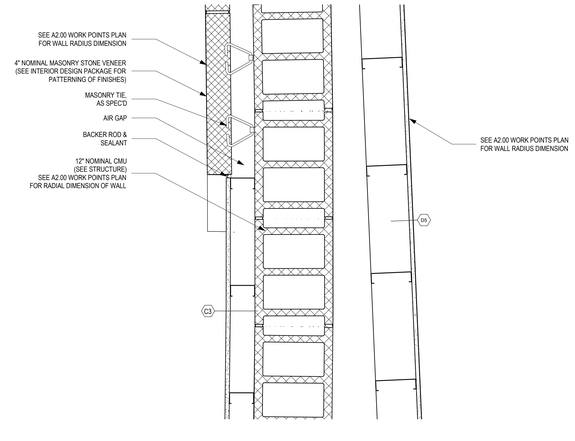
PLAN DETAIL @ GIFT SHOP CMU TO STUD (HIGH) **D8**
1 1/2" = 1'-0"



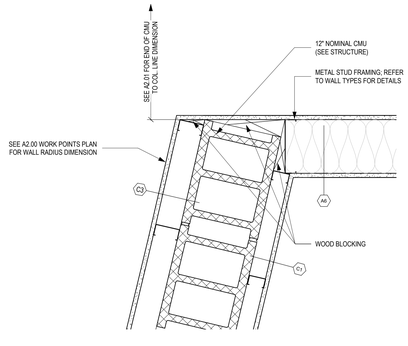
PLAN DTL @ GIFT SHOP N CORNER (HIGH) **D4**
1 1/2" = 1'-0"



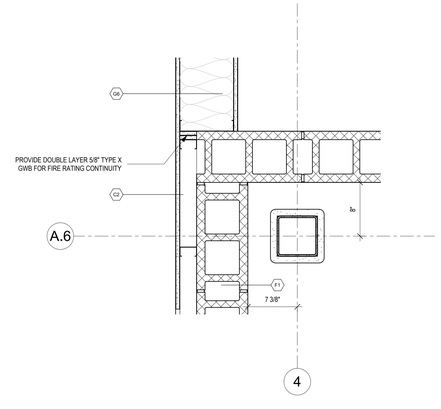
PLAN DETAIL @ CURVED CAST STONE WALL JOINT **D1**
1 1/2" = 1'-0"



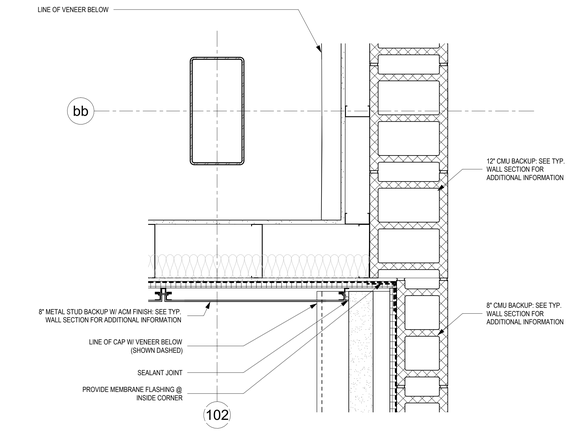
PLAN DETAIL @ MASONRY VENEER REVEAL **A11**
1 1/2" = 1'-0"



PLAN DETAIL @ CURVED WALL EDGE **A8**
1 1/2" = 1'-0"



PLN DTL @ FIRE-RATED CORNER @ STAIR **A5**
1 1/2" = 1'-0"



PLAN DETAIL @ WALL INTERSECTION ABOVE S. VEST. **A1**
1 1/2" = 1'-0"

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PLAN DETAILS

A9.03

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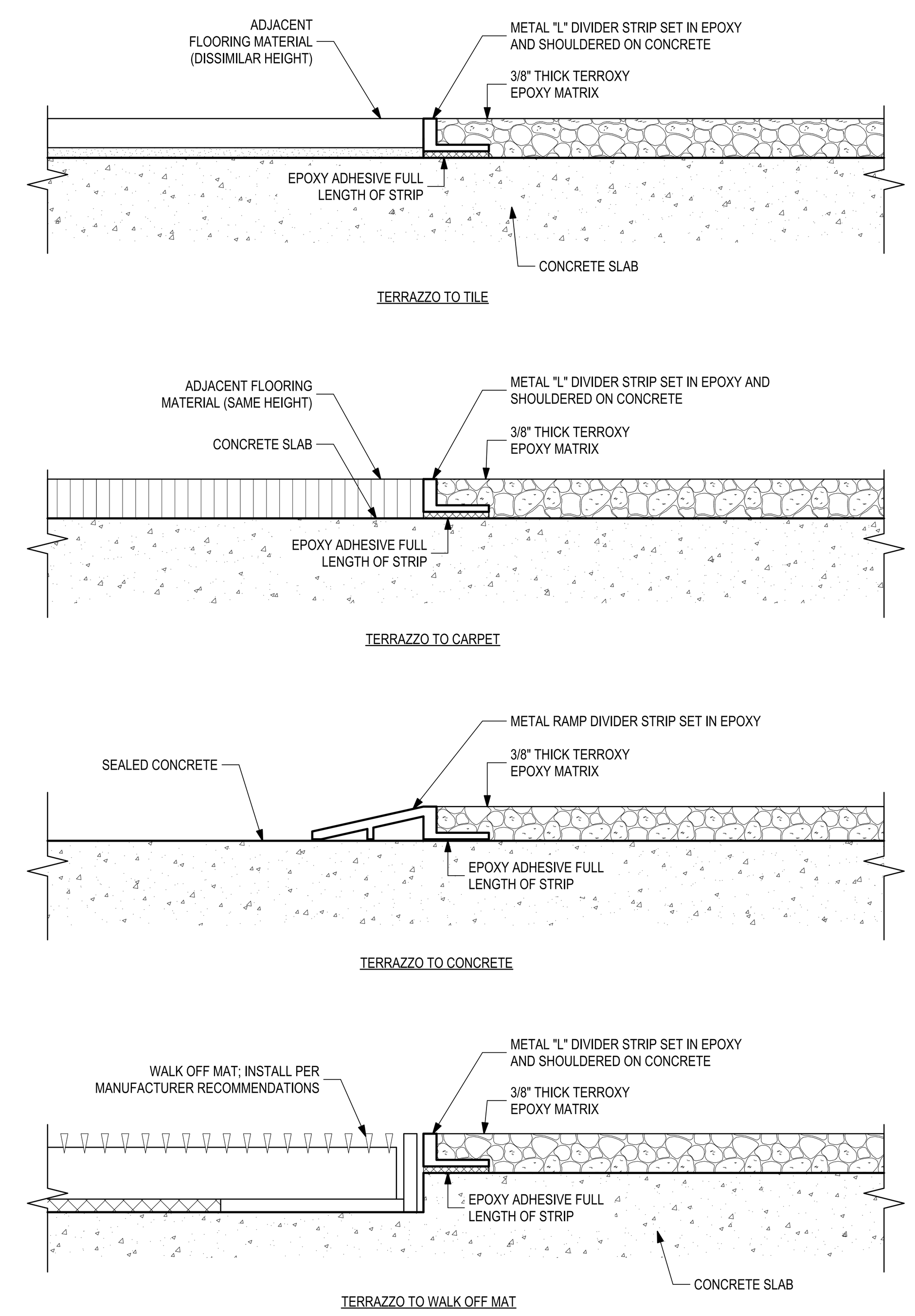
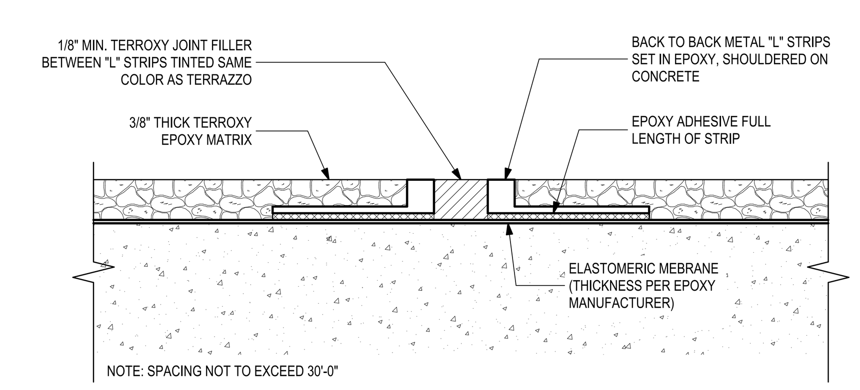
FINISH LEGEND

CODE	PRODUCT TYPE	MANUFACTURER	STYLE	COLOR	SPECIFICATION	CONTACT	LOCATION
033500 - CONCRETE FINISHING							
SC-01	SEALED CONCRETE	CUSTOM	--	--	SEALED CONCRETE, REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS		OVERALL
042000 - UNIT MASONRY							
MV-01	STONE VENEER	ECHELON	CORDOVA STONE - CHISEL FACE	ALABASTER	4"X12"X24", SEE INTERIOR ELEVATIONS FOR PATTERN AND LOCATION	EDDIE JORDON (919) 795-3558	GREAT HALL
MV-02	STONE VENEER	ECHELON	CORDOVA STONE - ROCK FACE	ALABASTER	4"X12"X24", SEE INTERIOR ELEVATIONS FOR PATTERN AND LOCATION	EDDIE JORDON (919) 795-3558	GREAT HALL
MV-03A	STONE VENEER	ECHELON	CORDOVA STONE - GROUND FACE	ALABASTER	4"X12"X24", SEE INTERIOR ELEVATIONS FOR PATTERN AND LOCATION	EDDIE JORDON (919) 795-3558	GREAT HALL
MV-03B	STONE VENEER	ECHELON	CORDOVA STONE - GROUND FACE	ALABASTER	4"X4"X24", REFER TO ELEVATIONS FOR ASSOCIATED TRIM PIECES AND VARIED BLOCK SIZES (ACCENT BANDS)	EDDIE JORDON (919) 795-3558	GREAT HALL
MV-03C	STONE VENEER	ECHELON	CORDOVA STONE - GROUND FACE	ALABASTER	4"X8"X24", REFER TO ELEVATIONS FOR ASSOCIATED TRIM PIECES AND VARIED BLOCK SIZES (ACCENT BANDS)	EDDIE JORDON (919) 795-3558	GREAT HALL
057000 - DECORATIVE METAL							
DM-01	DECORATIVE METALS	FORMS AND SURFACES	LINEN	STAINLESS STEEL	0.8MM THICKNESS	MARK MEISSNER (336) 740-4860	RECEPTION MILLWORK
064000 - ARCHITECTURAL WOODWORK							
WB-01	WOOD BASE	CUSTOM	FLAT STOCK	PNT-13	4" TALL FLAT STOCK PROFILE, PAINT GRADE WOOD		GALLERY BASE
WB-02	WOOD BASE	CUSTOM	FLAT STOCK	PNT-01	4" TALL FLAT STOCK PROFILE, PAINT GRADE WOOD		MEETING ROOM & CLASSROOM BASE
WD-01	WOOD	BRUNER LUMBER	SINKER CYPRESS	COMMON GRADE WOOD	5.25" FACE; THICKNESS TBD; TONGUE & GROOVE INSTALLATION	ASHLYN ENCARDES (850) 865-0952	RECEPTION MILLWORK
064100 - ARCHITECTURAL WOOD CASEWORK							
PL-01	PLASTIC LAMINATE	LAMIN-ART	CHRYSALIS FINISH	2422 PORCELAIN	VERTICAL APPLICATION	TYLER HERBERT	RECEPTION
PL-02	PLASTIC LAMINATE	LAMIN-ART	CRISSCROSS FINISH	2418 GRAPHITE		TYLER HERBERT	GIFT SHOP
PL-03	PLASTIC LAMINATE	WILSONART	79 RIDGEWOOD FINISH WITH AEON™	RANDOLPH FOREST 8225	APPROXIMATE DESIGN REPEAT WIDTH: 30.5", APPROXIMATE DESIGN REPEAT LENGTH: 43.3"	APRIL BRICKLE (540) 537-3431	RESTROOM VERTICAL SURFACE
PL-04	PLASTIC LAMINATE	FORMICA	FENIX 0032	BIANCO KOS	1.2MM THICK; MATCHED COLOR CORE; VERTICAL APPLICATION	SHERI REID (704) 534-7300	FEATURE WALL
PL-05	PLASTIC LAMINATE	WILSONART	16 CASUAL RUSTIC FINISH WITH AEON™	FAWN CYPRESS 8208	APPROXIMATE DESIGN REPEAT WIDTH: 25", APPROXIMATE DESIGN REPEAT LENGTH: 51"	APRIL BRICKLE (540) 537-3431	VIEWING ROOM VERTICAL SURFACE
068316 - FIBERGLASS REINFORCED PANELING							
FRP-01	FIBERGLASS REINFORCED PLASTIC	MARLITE	SMOOTH FRP	S 100 S/2/S WHITE	0.09" THICKNESS, ALL COORDINATING TRIM PIECES TO MATCH, MEETS CLASS C AND CLASS A FIRE RATING, INSTALLATION PER MANUFACTURERS RECOMMENDATION		CATERING KITCHEN, JANITOR'S CLOSET
093000 - TILING							
GT-01	GLASS TILE	FLORIDA TILE	BLISS RANDOM STRIP MOSAIC	CAPPUCCINO	SIZE: 12"X12"; THICKNESS: 8 MM; TYPE: NATURAL STONE AND GLASS	DANIELLE WRIGHT (919) 348-7924	RESTROOM VANITY WALL TILE
TB-01	TILE BASE	FLORIDA TILE	CONTINENT	29936 COASTAL SAND	6"X12" COVE BASE, 8" THICKNESS, ANSI A326.3: INTERIOR WET PLUS, BREAKING STRENGTH: > 365 LBF. AVG, SURFACE HARDNESS: 7 MOHS, SEE DRAWINGS FOR PATTERN AND LOCATION; GROUT: LATICRETE MARBLE BEIGE	DANIELLE WRIGHT (919) 348-7924	RESTROOM COVE BASE
TL-01	TILE	FLORIDA TILE	CONTINENT	29936 COASTAL SAND	12"X 12", 8" THICKNESS, ANSI A326.3: INTERIOR WET PLUS, BREAKING STRENGTH: > 365 LBF. AVG, SURFACE HARDNESS: 7 MOHS, SEE DRAWINGS FOR PATTERN AND LOCATION; GROUT: LATICRETE MARBLE BEIGE	DANIELLE WRIGHT (919) 348-7924	RESTROOM FLOOR TILE
TL-02	TILE	FLORIDA TILE	CONTINENT	29936 COASTAL SAND	12"X 24", 8" THICKNESS, ANSI A326.3: INTERIOR WET PLUS, BREAKING STRENGTH: > 365 LBF. AVG, SURFACE HARDNESS: 7 MOHS, SEE DRAWINGS FOR PATTERN AND LOCATION; GROUT: LATICRETE MARBLE BEIGE	DANIELLE WRIGHT (919) 348-7924	RESTROOM WALL TILE
TL-03	TILE	FLORIDA TILE	CONTINENT	29936 COASTAL SAND	6"X 24", 8" THICKNESS, ANSI A326.3: INTERIOR WET PLUS, BREAKING STRENGTH: > 365 LBF. AVG, SURFACE HARDNESS: 7 MOHS, SEE DRAWINGS FOR PATTERN AND LOCATION; GROUT: LATICRETE MARBLE BEIGE	DANIELLE WRIGHT (919) 348-7924	RESTROOM ACCENT WALL TILE
TL-04	TILE	MOSAIC TILE COMPANY	COVE	15COVSTO1224	12"X24", 9MM THICKNESS, MATTE FINISH, COLOURED BODY PORCELAIN CONCRETE LOOK TILE, SEE DRAWINGS FOR PATTERN AND LOCATION	ANN HARTLEY (919) 602-6125	GIFT SHOP
TTS-01	TILE TRANSITION STRIPS	SCHLUTER SYSTEMS	RENO-TK	SATIN NICKEL ANODIZED ALUMINUM	SLOPED TRANSITION: TILE TO CARPET; RADIUS PROFILE; 10MM HEIGHT	DAN HELD (800) 267-0817	GIFT SHOP
095100 - ACOUSTICAL CEILINGS							
ACT-01	ACOUSTICAL CEILING TILE	ARMSTRONG CEILING AND WALL SYSTEMS	MESA™ ANGLED TEGULAR FINE TEXTURE #681	WHITE	15/16" PRELUDE SUSPENSION SYSTEM; 24"X24"X3/4"THICKNESS; 0.60 NRC/ 35 CAC; LIGHT REFLECTANCE 85%; ASTM E1264 CLASSIFICATION: TYPE III, FORM 2, PATTERN C E; FIRE CLASS A	ALIANA POPLIN (980) 419-3795	OVERALL
ACT-02	ACOUSTICAL CEILING TILE	ARMSTRONG CEILING AND WALL SYSTEMS	FINE FISSURED™ SQUARE LAY-IN #465	WHITE	15/16" PRELUDE SUSPENSION SYSTEM; 24"X24"X5/8"THICKNESS; 0.55 NRC/ 35 CAC; LIGHT REFLECTANCE 82%; ASTM E1264 CLASSIFICATION TYPE III, FORM 2, PATTERN C E; FIRE CLASS A	ALIANA POPLIN (980) 419-3795	BACK OF HOUSE & COLLECTION STORAGE
ACT-03	ACOUSTICAL CEILING TILE	ARMSTRONG CEILING AND WALL SYSTEMS	KITCHEN ZONE™ SQUARE LAY-IN SMOOTH TEXTURE #673	WHITE	15/16" PRELUDE SUSPENSION SYSTEM, 24"X24"X5/8"THICKNESS; 33 CAC; LIGHT REFLECTANCE 89%; ASTM E1264 CLASSIFICATION TYPE IX, FORM 2, PATTERN G; FIRE CLASS A	ALIANA POPLIN (980) 419-3795	CATERING KITCHEN & CAFÉ KITCHEN
ACT-04	ACOUSTICAL CEILING TILE	ARMSTRONG CEILING AND WALL SYSTEMS	METALWORKS™ OPEN CELL SQUARE LAY-IN SMOOTH TEXTURE #6194M1	WHITE POWDER-COAT	9/16" T-BAR SUSPENSION SYSTEM; 24"X24"X0.016"THICKNESS; 8" INTERIOR CELL SIZE; 90% OPEN AREA; CLASS A: ASTM E84 SURFACE BURNING CHARACTERISTICS	ALIANA POPLIN (980) 419-3795	GIFT SHOP
ACT-05	ACOUSTICAL CEILING TILE	ARMSTRONG CEILING AND WALL SYSTEMS	DESIGNFLEX® SQUARES & RECTANGLES USING CALLA®	90% WHITE, 10% COLOR - 5% TBD, 5% TBD	PATTERN SR-8 - SEE RCP FOR LAYOUT; 9/16" SUPRAFINE® XM 9/16" SUSPENSION SYSTEM; UP TO 0.80 NRC/ 35 CAC; LIGHT REFLECTANCE 85%; FIRE CLASS A; LIGHTING AND DIFFUSERS INTEGRATED IN GRID SYSTEM; SEE MECHANICAL & ELECTRICAL DRAWINGS FOR FURTHER DETAIL	ALIANA POPLIN (980) 419-3795	MEETING/CLASSROOMS
096500 - RESILIENT FLOORING							
RB-01	RUBBER BASE	JOHNSONITE	4" RESILLIENT COVE BASE	55 SILVER GREY WG	4.5"H, PHTHALATE-FREE, 14% RECYCLED CONTENT, RESTART®	TOMMY KERR (336) 202-7212	BACK OF HOUSE
RTS-01	RESILIENT TRANSITION STRIP	JOHNSONITE	TBD	TBD	CONCRETE TO CARPET	TOMMY KERR (336) 202-7212	CLASSROOM
096623 - RESINOUS MATRIX TERRAZZO FLOORING							
TZ-01	TERRAZZO	TERRAZZO & MARBLE SUPPLY COMPANIES	CUSTOM BLEND; TM #23-1306	MATRIX COLOR: BM INTENSE WHITE OC-51	MATCH ARCHITECTS SAMPLE	CHERYL SIMERLY (704) 577-8717	OVERALL FLOORING
TZ-02	TERRAZZO	TERRAZZO & MARBLE SUPPLY COMPANIES	CUSTOM BLEND; TM #23-1307	MATRIX COLOR: SW 9563 BEDROCK	MATCH ARCHITECTS SAMPLE	CHERYL SIMERLY (704) 577-8717	ACCENT FLOORING
TZ-03	TERRAZZO	TERRAZZO & MARBLE SUPPLY COMPANIES	CUSTOM BLEND; TM #23-1308	MATRIX COLOR: SW 7019 GAUNTLET GRAY	MATCH ARCHITECTS SAMPLE	CHERYL SIMERLY (704) 577-8717	ACCENT FLOORING
TZ-04	TERRAZZO	TERRAZZO & MARBLE SUPPLY COMPANIES	CUSTOM BLEND; TM #23-1310	MATRIX COLOR: SW 6991 BLACK MAGIC	MATCH ARCHITECTS SAMPLE	CHERYL SIMERLY (704) 577-8717	ACCENT FLOORING
TZM-01	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	REFERENCE TERRAZZO TRANSITION DETAILS	ALUMINUM	TERRAZZO TO CARPET	CHERYL SIMERLY (704) 577-8717	CLASSROOM & MEETING ROOM
TZM-02	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	REFERENCE TERRAZZO TRANSITION DETAILS	ALUMINUM	TERRAZZO TO CONCRETE	CHERYL SIMERLY (704) 577-8717	GREAT HALL
TZM-03	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	REFERENCE TERRAZZO TRANSITION DETAILS	ALUMINUM	TERRAZZO TO TILE	CHERYL SIMERLY (704) 577-8717	RESTROOMS & GIFT SHOP
TZM-04	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	REFERENCE TERRAZZO TRANSITION DETAILS	ALUMINUM	TERRAZZO TO EPOXY	CHERYL SIMERLY (704) 577-8717	WARMING KITCHEN
TZM-05	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	DECORATIVE METAL STRIP	ALUMINUM	1/4" DECORATIVE STRIP FOR TERRAZZO FLOORING, NTMA CERTIFIED INSTALLER	CHERYL SIMERLY (704) 577-8717	GREAT HALL
TZM-06	TERRAZZO TRANSITION STRIP	TERRAZZO & MARBLE SUPPLY COMPANIES	DECORATIVE METAL STRIP	ALUMINUM	1" DECORATIVE STRIP FOR TERRAZZO FLOORING, NTMA CERTIFIED INSTALLER	CHERYL SIMERLY (704) 577-8717	GREAT HALL
096800 - CARPETING							
CPT-01	CARPET TILE	MOHAWK GROUP	SIDE STRIPE GT419	HERITAGE 963	SIZE: 24"X24"; SOLUTION DYED; INSTALL METHOD: ASHLAR; BACKING: ECOFLEX ONE; FIBER TYPE: DURACOLOR® TRICOR PREMIUM NYLON; FLAMMABILITY: ASTM E 648 CLASS 1	LEE BREWER (704) 989-0913	CLASSROOM, MEETING ROOM, OFFICE & GIFT SHOP
098400 - ACOUSTIC ROOM COMPONENTS							
AP-01	ACOUSTICAL PRODUCTS	NOVAWALL	1" CLASSIC PANEL WITH SQUARE EDGE	CARNEGIE XOREL; PATTERN: STRIE, COLOR: 809	52"W, 1" FIBERGLASS CORE (6LB DENSITY), UNBACKED	DANIELLE MILESKY (704) 942-7319	GREAT HALL CURVED WALL
AP-02	ACOUSTICAL PRODUCTS	NOVAWALL	1" CLASSIC PANEL WITH SQUARE EDGE	CARNEGIE XOREL; PATTERN: STRIE, COLOR: 811	52"W, 1" FIBERGLASS CORE (6LB DENSITY), UNBACKED	DANIELLE MILESKY (704) 942-7319	GREAT HALL CURVED WALL
AP-03	ACOUSTICAL PRODUCTS	NOVAWALL	1" CLASSIC PANEL WITH SQUARE EDGE	CARNEGIE XOREL; PATTERN: STRIE, COLOR: 818	52"W, 1" FIBERGLASS CORE (6LB DENSITY), UNBACKED	DANIELLE MILESKY (704) 942-7319	GREAT HALL CURVED WALL
AP-04	ACOUSTICAL PRODUCTS	NOVAWALL	1" CLASSIC PANEL WITH SQUARE EDGE	CARNEGIE XOREL; PATTERN: STRIE, COLOR: 803	52"W, 1" FIBERGLASS CORE (6LB DENSITY), UNBACKED	DANIELLE MILESKY (704) 942-7319	GREAT HALL CURVED WALL
AP-05	ACOUSTICAL PRODUCTS	T.B.D.	FORMALDEHYDE FREE INSULATION BOARD	WHITE	SIZE: 2'X4', SEE RCP FOR EXTENTS; SEE PROJECT MANUAL FOR BASIS OF DESIGN		GREAT HALL
AP-06	ACOUSTICAL PRODUCTS	T.B.D.	DUCT LINER	BLACK	4" THICK ROLL GOODS; SEE PROJECT MANUAL FOR BASIS OF DESIGN		GALLERY SPACES
AP-07	ACOUSTICAL PRODUCTS	T.B.D.	STARSILENT IN SUPRAFINE FINISH	STANDARD WHITE	SEE PROJECT MANUAL FOR BASIS OF DESIGN AND DETAILS		GREAT HALL
099123 - INTERIOR PAINTING							
PNT-01	PAINT	SHERWIN WILLIAMS	--	SW 9166 DRIFT OF MIST	EGGSHELL FINISH	STEVE GOODE (980) 207-9410	OVERALL
PNT-02	PAINT	SHERWIN WILLIAMS	--	SW 9166 DRIFT OF MIST	SEMIGLOSS FINISH	STEVE GOODE (980) 207-9410	TRIM
PNT-03	PAINT	SHERWIN WILLIAMS	--	HIGH HIDING WHITE	FLAT FINISH	STEVE GOODE (980) 207-9410	GREAT HALL SOFFITS
PNT-04	PAINT	SHERWIN WILLIAMS	--	SW 6258 TRICORN BLACK	FLAT FINISH	STEVE GOODE (980) 207-9410	GALLERY CEILING
PNT-05	PAINT	BENJAMIN MOORE & CO.	--	1605 WINTER SOLSTICE	FLAT FINISH	CANDICE CARTER (980) 621-3894	BATHROOM SOFFIT ACCENT PAINT
PNT-06	PAINT	SHERWIN WILLIAMS	--	SW 7669 SUMMIT GRAY	FLAT FINISH	STEVE GOODE (980) 207-9410	CAFÉ AND GIFT SHOP SOFFIT
PNT-07	PAINT	SHERWIN WILLIAMS	--	SW 7600 BOLERO	DEVTHANE 379H ALIPHATIC URETHANE GLOSS ENAMEL	STEVE GOODE (980) 207-9410	CAFÉ AND GIFT SHOP CEILING CLOUD
PNT-08	PAINT	SHERWIN WILLIAMS	--	SW 7019 GAUNTLET GRAY	FLAT FINISH	STEVE GOODE (980) 207-9410	GALLERY OVERALL
PNT-09	PAINT	SHERWIN WILLIAMS	--	SW 7600 BOLERO	EGGSHELL FINISH	STEVE GOODE (980) 207-9410	GREAT HALL COLUMN ACCENT
PNT-10	PAINT	SHERWIN WILLIAMS	--	SW 7615 SEA SERPENT	EGGSHELL FINISH	STEVE GOODE (980) 207-9410	OFFICE ACCENT
PNT-11	PAINT	SHERWIN WILLIAMS	--	HIGH HIDING WHITE	HIGH-GLOSS FINISH	STEVE GOODE (980) 207-9410	BATHROOM SOFFIT
PNT-12	PAINT	BENDHEIM	--	CW-405 DAMASK GOLD	EGGSHELL FINISH	DAN LURIE (704) 521-9328	BATHROOM NICHE ACCENT
PNT-13	PAINT	SHERWIN WILLIAMS	--	SW 7019 GAUNTLET GRAY	SEMIGLOSS FINISH	STEVE GOODE (980) 207-9410	GALLERY TRIM
099656 - EPOXY COATINGS							
EXP-01	EPOXY PAINT	DUR-A-FLEX, INC.	POLY-CRETE® SLB	GREY; COLORFAST	SEAMLESS; 3/16"; 100% SOLIDS; PIGMENTED TOPCOAT; CEMENTITIOUS-URETHANE; SELF-LEVELING; SELF-PRIMING CONCRETE RESURFACING SYSTEM W/NATURAL QUARTZ AGGREGATE BROADCAST; SLIP-RESISTANT GLOSS FINISH; REFER TO SPEC BOOK FOR SURFACE PREPARATION & FURTHER DETAILS		KITCHEN FLOORING
102113 - TOILET COMPARTMENTS							
TA-12	TOILET PARTITION	SCRANTON PRODUCTS	HINYHIDERS	NICKLE	FLUSH DOOR STYLE. PROVIDE MANUFACTURER STANDARD HARDWARE IN STAINLESS STEEL FINISH: COAT HOOK, DOOR BUMPER FOR OUT SWINGING DOORS, DOOR PULL THAT COMPLIES WITH ADA. PROVIDE OVERHEAD BRACING AS REQUIRED.	MATT WILHELM (800) 445-5148	RESTROOM
102600 - WALL AND DOOR PROTECTION							
CG-01	CORNER GUARD	PROTEK SYSTEMS	CG-50: 3 1/2" WING, 9-DEG, 1/8" RADIUS	STAINLESS STEEL	8' LENGTH, MOUNTED AT TOP OF WALL BASE	ANDREW (561) 395-8155	CORRIDORS
121700 - ART GLASS							
DG-01	DECORATIVE GLASS PRODUCTS	SKYLINE	PURL	CLEAR OR GRAY	THICKNESS: TBD; CUSTOM GRAPHIC ETCH IN GLASS - SEE ELEVATIONS	ROY HINZE (336) 681-2495	RECEPTION FEATURE WALL
123600 - COUNTERTOP							
QC-01	QUARTZ COUNTER	CORIAN	QUARTZ	CLOUD WHITE	SINGLE POLISHED	BARBARA DAVIS (704) 954-8825	RECEPTION & GIFT SHOP MILLWORK
QC-02	QUARTZ COUNTER	WILSONART	Q4031	DESERT WIND	2CM THICKNESS	APRIL BRICKLE (540) 537-3431	RESTROOM COUNTERTOP
QC-03	QUARTZ COUNTER	WILSONART	Q1001	SERENE	2CM THICKNESS	APRIL BRICKLE (540) 537-3431	VIEWING ROOM COUNTERTOP
124813 - ENTRANCE FLOOR MATS AND FRAMES							
WM-01	WALK-OFF MAT	CONSTRUCTION SPECIALTIES	GRIDLINE G6	STAINLESS STEEL	GRIDLINE G6 5/8" STAINLESS STEEL - HIDDEN LOCKDOWNS, ROLLING LOAD CAPACITY: 1,000 LBS. PER WHEEL. ASTM D-2047-96 SCOF: .70 WET	MEG EISEMANN (704) 543-8181	ENTRY VESTIBULES

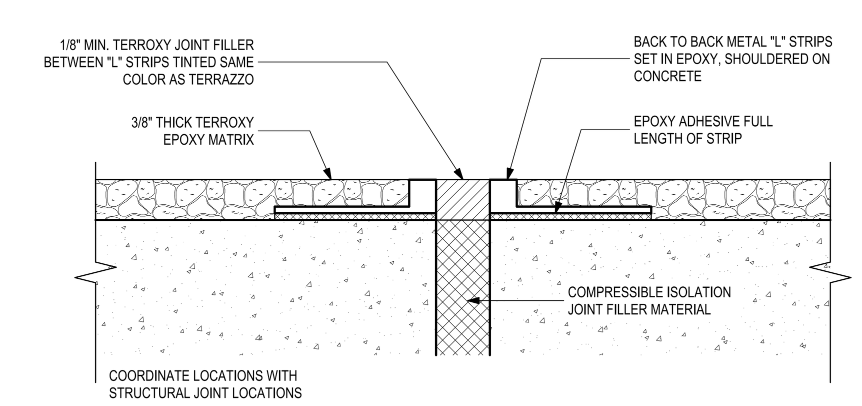
NOTE: TERRAZZO MUST BE INSTALLED FIRST IN ALL CONDITIONS



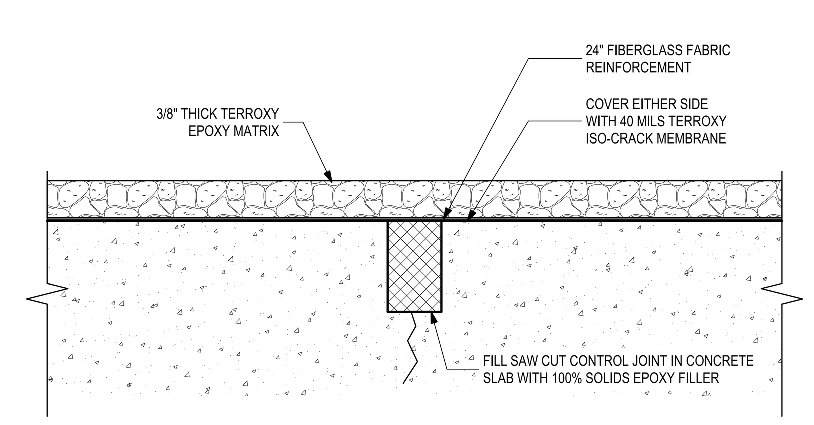
TERRAZZO TRANSITIONS G3
SCALE: 1' = 1'-0"



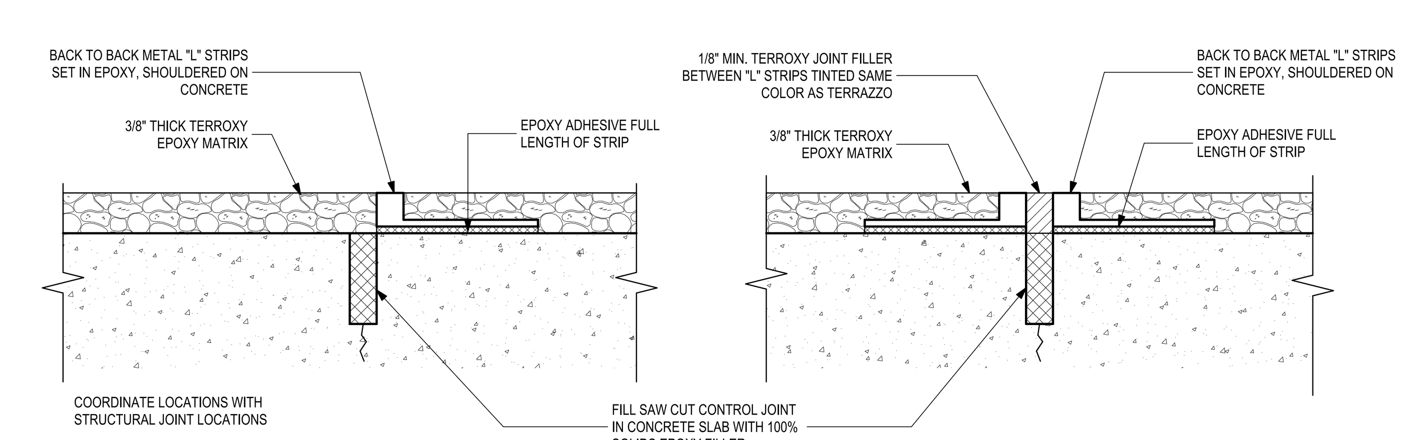
TERRAZZO CONTROL JOINT E3
SCALE: 1' = 1'-0"



TERRAZZO ISOLATION JOINT (AT COLUMN BASES) D3
SCALE: 1' = 1'-0"

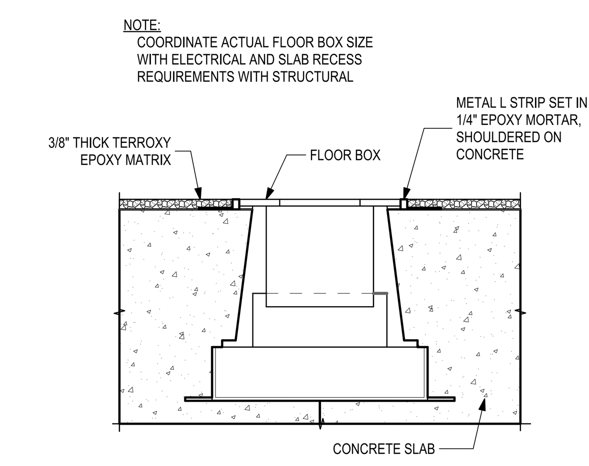


TERRAZZO BURIED CONTROL JOINT B3
SCALE: 1' = 1'-0"

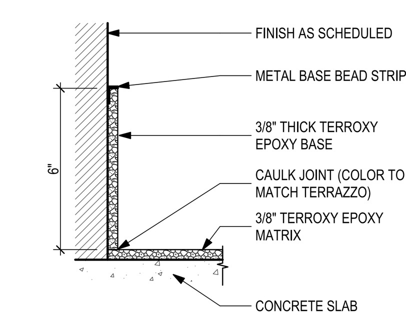


TERRAZZO CONTRACTION JOINTS A3
SCALE: 1' = 1'-0"

NOTE:
COORDINATE ACTUAL FLOOR BOX SIZE WITH ELECTRICAL AND SLAB RECESS REQUIREMENTS WITH STRUCTURAL



FLOOR BOX IN TERRAZZO I1
SCALE: 3" = 1'-0"



TERRAZZO BASE H1
SCALE: 3" = 1'-0"

GENERAL INTERIOR FINISH NOTES

A. REFER TO **ROOM FINISH LEGEND** FOR CUSTOM MATERIALS, COLORS AND SPECIFICATIONS.

B. REFER TO **GENERAL SPECIFICATIONS MANUAL** (WHEN PROVIDED) FOR ADDITIONAL FINISH INFORMATION.

C. REFER TO **FLOOR/WALL FINISH PLANS** FOR FLOORING TRANSITIONS, FLOOR FINISH PATTERNS, WALL FINISH STOPS AND MATERIAL EXTENTS.

D. REFER TO ARCHITECTURAL **REFLECTED CEILING PLANS** FOR SOFFIT FINISH AND ADDITIONAL FINISH MATERIAL DESIGNATIONS. UNDERSIDE OF SOFFIT TO MATCH VERTICAL SURFACE OF SOFFIT UNLESS NOTED OTHERWISE.

E. REFER TO **INTERIOR ELEVATIONS** FOR FINISH LOCATION CALL OUTS AND WALL PATTERNS.

F. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR **WALL TYPE PARTITIONS** AND **RATED WALL LOCATIONS**.

G. IT IS THE INTENT OF THE DRAWINGS THAT **ALL EXPOSED SURFACES RECEIVE FINISHES** AS INDICATED ON DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE. ANY SURFACE WHICH DOES NOT HAVE A SPECIFIC FINISH NOTED OR IS NOTED TO REMAIN UNFINISHED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/INTERIOR DESIGNER AND FINISHED PER ARCHITECT/INTERIOR DESIGNER'S INSTRUCTIONS.

H. **INSPECT ALL FINISH PRODUCTS IMMEDIATELY UPON RECEIPT** AND BEFORE INSTALLATION TO ENSURE THEY ARE FREE FROM DEFECTS OR DAMAGE (INSPECT COMPLETE LENGTHS OF VINYL WALLCOVERING). COMPARE THE PRODUCT WITH THE FINISH LEGEND TO ENSURE THE CORRECT QUANTITIES, WIDTHS, THICKNESSES, PATTERNS, COLORS, ETC. HAVE BEEN ORDERED AND DELIVERED. NOTIFY THE ARCHITECT/INTERIOR DESIGNER OF ANY DEVIATIONS.

I. INSTALL ALL MATERIALS PER **MANUFACTURER'S INSTRUCTIONS**. RESEARCH PRODUCT THOROUGHLY TO ENSURE ALL ASSOCIATED ADHESIVES, GROUT, SEALANTS, PADDING, ETC. ARE ORDERED PER MANUFACTURER INSTRUCTIONS AND IN A TIMELY MATTER.

J. **ATTIC STOCK**: SALVAGE MATERIAL AND OVERAGES FOR OWNER'S STORAGE INCLUDING ALL WALLCOVERING, PAINT, CEILING TILE, FLOORING, ETC. GENERAL CONTRACTOR TO REVIEW ANY CARPET OVERAGES WITH OWNER PRIOR TO ORDERING MATERIAL.

K. ALL SCHEDULED **FLOORING AND WALL FINISHES TO CONTINUE UNDERNEATH/BEHIND** ALL VANITIES, LAVATORIES, STAIRS, BANQUETTES OR ANY OTHER BUILT-IN MILLWORK UNLESS NOTED OTHERWISE.

L. PROVIDE **SHOE MOULD** AT ALL HARD FLOOR SURFACES SCHEDULED TO RECEIVE WOOD BASE UNLESS NOTED OTHERWISE.

M. ALL FLOOR TILE AND WALL **TILE JOINTS TO ALIGN** WITH ONE ANOTHER UNLESS NOTED OTHERWISE.

N. **FEATHER SUBFLOOR** WHERE TILE FLOOR IS TO BE INSTALLED TO ENSURE TILE IS LEVEL TO ADJACENT FLOOR FINISH (CARPET, RESILIENT FLOORING, ETC.) AS NECESSARY TO MEET ACCESSIBILITY REQUIREMENTS.

O. PROVIDE **4" HIGH TILE BASE** OR BUILD UP OF SMALLER BASE EQUAL TO 4" HIGH IN ALL **PUBLIC TOILETS** UNLESS NOTED OTHERWISE.

P. ASSUME **TRANSITION STRIPS** ARE NECESSARY AT ALL FLOORING SURFACES ADJOINING DIFFERENT MATERIALS SUGGESTED BY MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SPECIFIED/INDICATED ON FINISH PLANS. LOCATE FLOOR TRANSITIONS AT DOOR INSIDE, NONPUBLIC SIDE, EDGE OF DOOR STOP. INSTALL TRANSITION STRIPS SO THAT THE DOOR IN THE CLOSED POSITION COVERS THE TRANSITION. REFER TO ROOM FINISH LEGEND FOR TRANSITION TYPE AND FINISH. GENERAL CONTRACTOR TO VERIFY FLOOR THICKNESS WITH SPECIFIED TRANSITION.

Q. ARCHITECT/INTERIOR DESIGNER TO APPROVE ALL **STONE AND TILE PATTERN/ALIGNMENTS** PRIOR TO INSTALLATION. NOTIFY ARCHITECT/INTERIOR DESIGNER WHEN INTENT IS NOT DOCUMENTED ON DRAWINGS. A TILE SUPERINTENDENT MUST BE ON SITE FOR TILE INSTALLATION AND NOT BE THE ACTUAL TILE INSTALLER. MOVEMENT JOINTS SHOULD BE PLACED AT PERIMETERS OF TILE AND STONE INSTALLATIONS, AT ALL TRANSITIONS OF PLANES OR DIFFERENT MATERIALS, AND WITHIN FIELD TILE PER TCNA EJ171. NOTIFY THE ARCHITECT/INTERIOR DESIGNER FOR SPECIFIC LOCATIONS AND DETAILS IF NOT PROVIDED ON DRAWINGS.

R. PROVIDE **TILE BEHIND ALL MIRRORS** UNLESS NOTED OTHERWISE IN INTERIOR ELEVATIONS. PROVIDE SHIMMING (PAINTED BLACK UNLESS NOTED OTHERWISE) TO ENSURE MIRRORS ARE LEVEL WHERE TILE DOES NOT CONTINUE UP FULL HEIGHT OF MIRROR.

S. PROVIDE SHIMS AS REQUIRED SHOULD A **TOILET PARTITION** STOP AT AN UNEVEN SURFACE OR WALL SURFACE THAT IS PARTIALLY TILED VERSUS PAINTED AND HARDWARE NEEDS TO BE BROUGHT TO LEVEL.

T. PROVIDE COORDINATING INSIDE/OUTSIDE CORNER, BASE OR EDGE **TRIM PIECES** FOR ALL TILE AND OTHER FINISH MATERIALS. IF COORDINATING MANUFACTURER TRIM IS NOT AVAILABLE, PROVIDE SCHLUTER PROFILES ON ALL UNFINISHED MATERIAL EDGES FOR PORCELAIN, CERAMIC AND STONE TILE AND ANY OTHER ARCHITECTURAL SPECIALTY WALL PANELS UNLESS NOTED OTHERWISE. REFLECT ON SHOP DRAWINGS AND NOTIFY THE ARCHITECT/INTERIOR DESIGNER WHEN THIS OCCURS. ALL SCHLUTER TRIM FINISHES TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL METAL TRIM IN WET AREAS (NOTABLY SHOWER AND SWIMMING POOL APPLICATIONS) TO BE MARINE GRADE FINISH.

U. WHERE ANY DRYWALL PERPENDICULARLY MEETS **CMU**, PROVIDE FRY REGLET "J" MOULDING OR EQUAL WITH SEALANT AND BACKER.

V. PREPARE ALL DRYWALL SURFACES WITH A **LEVEL 5 FINISH** (WALL AND CEILING) WHERE **GLOSS PAINT AND/OR COLORS REQUIRING A DEEP OR ULTRADEEP BASE IS REQUIRED,** IS SPECIFIED TO BE APPLIED.

W. **PAINT ACCESS PANELS** AND OTHER MISCELLANEOUS WALL OR CEILING MOUNTED ITEMS TO MATCH THE SURFACE UPON WHICH THEY OCCUR UNLESS NOTED OTHERWISE.

X. **DOOR PANELS** AND CASE MOULDING TO BE PAINTED **TRIM COLOR** AS SCHEDULED UNLESS NOTED OTHERWISE.

Y. WHEN **STONE SLABS** ARE USED/SPECIFIED FOR COUNTERS OR OTHER APPLICATIONS WHERE COLOR, PATTERN OR VEINING VARIATION IS A FACTOR, VENDOR TO SUBMIT PHOTOS AND A CUT DIAGRAM OF USED AND DISCARDED PIECES OF ALL SLABS FOR APPROVAL BY DESIGNER.

Z. REFER TO INTERIOR ELEVATIONS AND **MILLWORK DETAILS** FOR ADDITIONAL DIMENSIONS AND DETAILS. COORDINATE GROMMET LOCATIONS WITH ALL **EQUIPMENT/APPLIANCES**. COORDINATE MILLWORK WITH FINAL EQUIPMENT/APPLIANCE CUTSHEETS AND PER MANUFACTURER RECOMMENDED INSTRUCTIONS.

AA. PROVIDE **BLOCKING** FOR ALL CASEWORK, SHELVING, WINDOW TREATMENTS, EQUIPMENT, SPECIALTY WALL FINISHES AND GRAB BARS/TOILET ACCESSORIES AS NEEDED. COORDINATE ALL AV NEEDS AND BLOCKING REQUIREMENTS WITH AV CONSULTANT.

BB. **ELECTRICAL DEVICES/OUTLETS** ARE MOUNTED AT THE FOLLOWING STANDARD HEIGHTS (ALL DIMENSIONS TO CENTER LINE OF DEVICE) UNLESS NOTED OTHERWISE. SWITCH: 46" AFF; THERMOSTAT: 46" AFF; OUTLET: 18" AFF WHERE TELEPHONE OR TV OUTLETS ARE INDICATED AT THE SAME LOCATION AS A DUPLEX RECEPTACLE, THEY ARE TO BE IN A QUAD BOX WITH DIVIDER. COORDINATE LOCATION OF OUTLETS BEHIND ARCHITECTURAL WALL MATERIALS - PROVIDE EXTENDED FACEPLATES WHERE REQUIRED. DEVICE COLORS TO MATCH WALL COLOR - COORDINATE WITH INTERIOR DESIGNER.

CC. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL **CODE SIGNAGE**. ALL SIGNS INDENTIFYING PERMANENT ROOMS OR SPACES ARE REQUIRED TO HAVE VISUAL AND RAISED CHARACTERS AND BRAILLE. SIGNAGE TO BE MOUNTED ON LATCH SIDE OF DOOR WITH THE LOWEST TACTILE CHARACTERS NO LOWER THAN 48" AND THE BOTTOM OF THE HIGHEST TACTILE CHARACTERS NO HIGHER THAN 60" AFF. ALL EXIT SIGNAGE TO BE TRANSPARENT UNLESS OTHERWISE NOTED. ALL REQUIREMENTS SHALL BE VERIFIED WITH LOCAL JURISDICTION.

CJMW ARCHITECTURE
119 Brookstown Ave. Suite 100
Winston-Salem NC 27101
p. 336-724-1503
www.cjmw.com

HICAPS

RAA

SAMET

99% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

#	Description	Date

Museum of the MARINE
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FINISH LEGEND & FLOOR TRANSITION DETAILS

I2.01

ISSUE DATE: **08-01-2023**
PROJECT NUMBER: **22-0410**
DRAWN BY: **KP, MC, CL, MH**
CHECKED BY: **--**

FINISH TAG REMARKS

1. SEE INTERIOR ELEVATIONS FOR MILLWORK FINISHES
2. SEE INTERIOR ELEVATIONS FOR ACOUSTICAL PANEL (AP) LOCATIONS AND LAYOUTS
3. ALL EXPOSED CEILING/ROOF DECK/MECHANICAL DUCTS AND DIFFUSERS TO BE PAINTED TO PNT-03. CEILING PAINT TO EXTEND 12" BELOW LOWEST MECHANICAL DUCT PENETRATION.
4. ALL EXPOSED CEILING/ROOF DECK/MECHANICAL DUCTS AND DIFFUSERS TO BE PAINTED PNT-08. CEILING PAINT TO EXTEND 12" BELOW LOWEST MECHANICAL DUCT PENETRATION.
5. ACOUSTICAL PLASTER CANNOT BE PAINTED, INTEGRAL TINT TO BE MANUFACTURER'S STANDARD WHITE.
6. EXTENTS OF FRP ON WALL NOT TO EXTEND 4' (EQUAL TO ONE FULL PANEL WIDTH)
7. STAIR PICKETS AND RAILINGS TO BE PAINTED PNT-02

* DENOTES OVERALL FINISH. SEE FINISH PLANS FOR EXTENTS OF ACCENT FINISHES / MATERIALS

FINISH TAG LEGEND	
C -	CEILING FINISH
T -	TRIM FINISH
W -	WALL FINISH
B -	WALL BASE
F -	FLOOR FINISH
R-	REMARKS

VESTIBULE
129
C: PNT-03
T: PNT-02
W: PNT-01*, MV-03
B: TZ-01
F: WM-01, TZ-01
R: 3

WARMING KITCHEN
128
C: ACT-03
T: FRP-01
W: FRP-01
B: EXP-01
F: EXP-01
R: 1

GREAT HALL
102
C: EXP, PNT-03, AP-05/07
T: PNT-02
W: PNT-01, MV-01/02/03, AP-01/02/03/04
B: TZ-01
F: TZ-01*/02/03/04
R: 1, 2, 3, 5

MEDIUM GALLERY
121
C: EXP, PNT-04, AP-06
T: PNT-13
W: PNT-08
B: WB-01
F: SC-01
R: 4

STAIR
100
C: EXP
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01
R: 7

BOILER
127
C: EXP
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

FIRE PUMP
126
C: EXP
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

EMG. DIST.
125
C: EXP
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

ELECTRIC
124
C: PNT-03
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

VIEWING ROOM
122A
C: ACT-01
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01
R: 1

TABLE STORAGE
116
C: ACT-02
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

SMALL GALLERY
120
C: EXP, PNT-04, AP-06
T: PNT-13
W: PNT-08
B: WB-01
F: SC-01
R: 4

MEETING ROOM
115
C: ACT-05, PNT-03
T: PNT-02
W: PNT-01*, AP-03
B: WB-02
F: CPT-01, TZ-01
R: 2

CLASSROOM
114
C: ACT-05, PNT-03
T: PNT-02
W: PNT-01*, AP-03
B: WB-02
F: CPT-01, TZ-01
R: 2

AV
113
C: ACT-02
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

VESTIBULE STAGING
123
C: EXP, PNT-04
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

COLLECTIONS STORAGE
122B
C: ACT-02
T: PNT-02
W: PNT-01
B: RB-01
F: SC-01

VESTIBULE
119
C: PNT-03
T: PNT-02
W: PNT-01
B: RB-01
F: WM-01

JAN
106
C: EXP
T: PNT-02
W: PNT-01, FRP-01
B: RB-01
F: SC-01
R: 6

GIFT SHOP
103
C: PNT-03/06/07, ACT-04, AP-05
T: PNT-02
W: PNT-01, VWC-01
B: WB-01, TZ-01
F: CPT-01, TZ-01/03
R: 1, 3

CORR.
105
C: PNT-03
T: PNT-02
W: PNT-01*/12
B: TZ-01
F: TZ-01

WOMENS
107
C: ACT-01, PNT-05
T: PNT-02
W: PNT-01, TL-02/03, GT-01
B: TB-01
F: TL-01
R: 1

MENS
108
C: ACT-01, PNT-05
T: PNT-02
W: PNT-01, TL-02/03, GT-01
B: TB-01
F: TL-01
R: 1

LARGE GALLERY
118
C: EXP, PNT-04, AP-06
T: PNT-13
W: PNT-08
B: WB-01
F: SC-01
R: 4

CAFE
104
C: PNT-03, ACT-04, AP-05
T: PNT-02
W: PNT-01, VWC-01
B: WB-01
F: TL-04
R: 1, 3

CORR.
110
C: PNT-03
T: PNT-02
W: PNT-01
B: TZ-01
F: TZ-01

KITCHEN
104A
C: PNT-03/06, ACT-03
T: PNT-02
W: PNT-01, VWC-01
B: WB-01, TZ-01
F: TL-04, TZ-01/03
R: 1

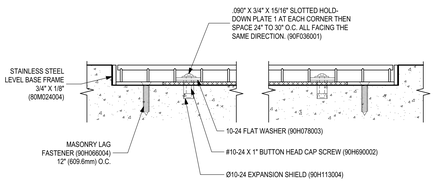
VESTIBULE
101
C: PNT-03
T: PNT-02
W: PNT-01, MV-01
B: TZ-01
F: WM-01, TZ-01
R: 3

OFFICE
112
C: ACT-01
T: PNT-02
W: PNT-01*/10
B: RB-01
F: CPT-01

FAMILY
109
C: ACT-01, PNT-03
T: PNT-02
W: PNT-01, TL-02/03
B: TB-01
F: TL-01
R: 1

STORAGE
111
C: ACT-02
T: PNT-02
W: FRP-01
B: RB-01
F: SC-01

PNT-09
AP-03
A1/I2.06
G1/I2.06
A3/I2.07
A1/I2.08
E4/I2.06
A1/I2.04
FRP-01
WM/I2.06
PNT-10



WALK OFF GRID DETAILS
SCALE: 6" = 1'-0"
C11

WALK OFF GRID DETAILS- AT TERRAZZO FLOORING
SCALE: 6" = 1'-0"
A11

PLAN NORTH

FIRST FLOOR FINISH PLAN WITH FINISH TAGS
SCALE: 1/8" = 1'-0"
A1

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FINISH PLAN w/ FINISH TAGS

I2.02

ISSUE DATE: **08-01-2023**
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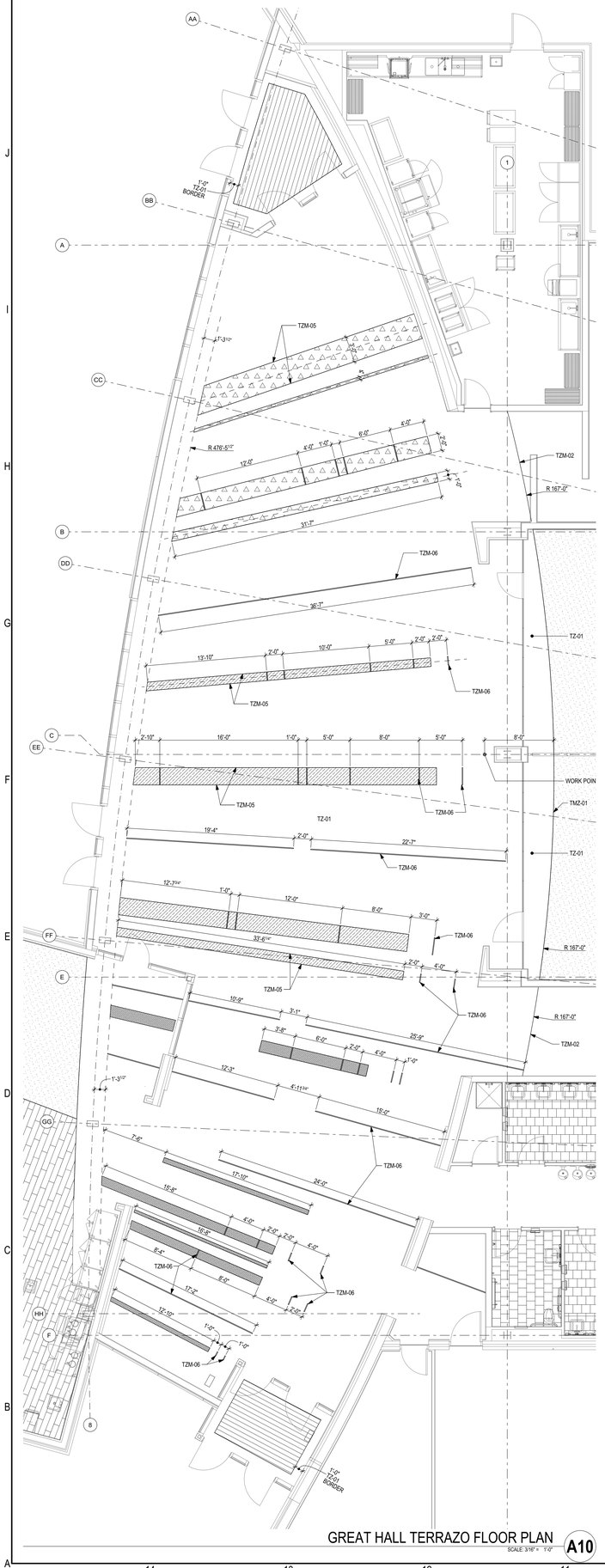

GREAT HALL TERRAZO FLOOR PLAN

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

A10

TERRAZZO LEGEND

- TZ-01
- TZ-02
- TZ-03
- TZ-04

FIRST FLOOR - FLOOR FINISH PLAN

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

A1

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OVERALL FLOOR FINISH PLAN

I2.03

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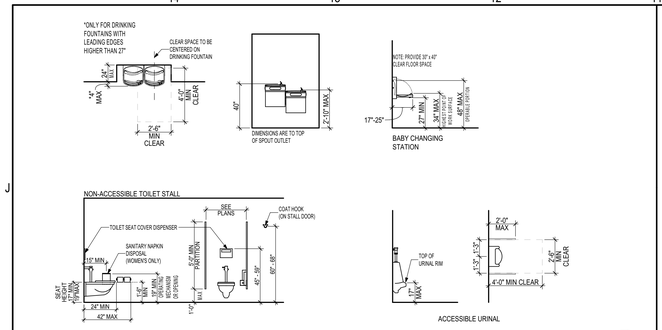
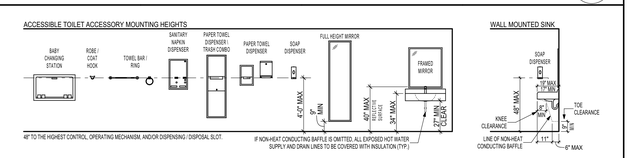


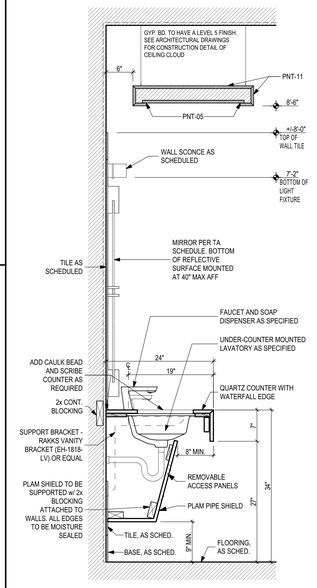
MISC. MOUNTING HEIGHTS & CLEARANCES — I11

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



ACCESSIBLE TOILET ACCESSORY MOUNTING HEIGHTS — G11

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



ACCESSIBLE LAVATORY — G9

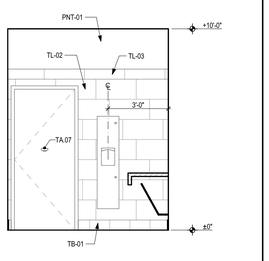
SCALE: 1" = 1'-0"

GENERAL NOTES

1. CENTER TILE ON WALLS UNLESS NOTED OTHERWISE
2. CENTER MIRROR AND WALL SCONCE OVER FAUCET UNLESS NOTED OTHERWISE.
4. SEE SHEET I2.01 FOR FINISH LEGEND
5. ACCESSIBLE SINKS AND LAVATORIES TO HAVE SCHEDULED FLOORING TO CONTINUE UNDERNEATH.
6. PROVIDE BLOCKING AS REQUIRED FOR ALL GRAB BARS AND TOILET ACCESSORIES.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON TOILET ACCESSORIES.
8. REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION ON TOILET PARTITIONS (TA.12)

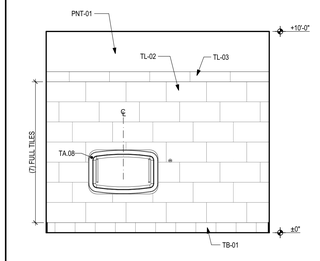
TOILET ACCESSORY SCHEDULE

ID	Description	Manufacturer	Model / Line Name	Model Number
TA.01	36" Grab Bar	Bobrick	--	B-5806x36
TA.02	42" Grab Bar	Bobrick	--	B5806x42
TA.03	18" Grab Bar	Bobrick	--	B-5806x18
TA.04	Toilet Tissue Dispenser	Bobrick	Fino Collection	B-6890
TA.05	Toilet Seat Cover Dispenser - Recessed	Bobrick	Trim Line Series	B-3013
TA.06	Sanitary Napkin Disposal	Bobrick	Trim Line Series	B-35139
TA.07	Coat Hook	Bobrick	Classic Series	B-6727
TA.08	Baby Changing Station	Koala Kare	--	KB310-SSWM
TA.09	Framed Mirror - 24" x 60"	Bobrick	--	B-290 2460.MBLK
TA.10	Semi-Recessed Paper Towel Dispenser / Waste Combo	Bobrick	Trim Line Series	B-38032
TA.11	Mirror 31"x47" (N.I.C. - OWNER PROVIDED FFE)	Arteriors	Wilder Mirror	WM110
TA.12	Toilet Partition	Scranton Products	Hiny Hiders	



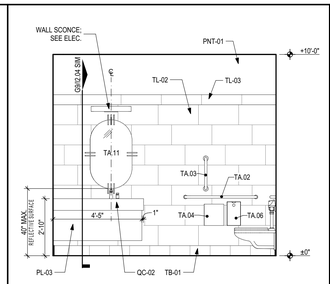
109 FAMILY N — H7

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



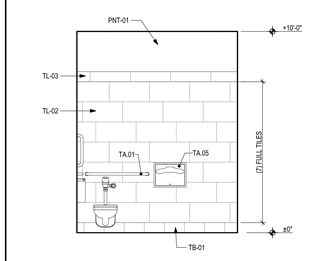
109 FAMILY W — H5

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



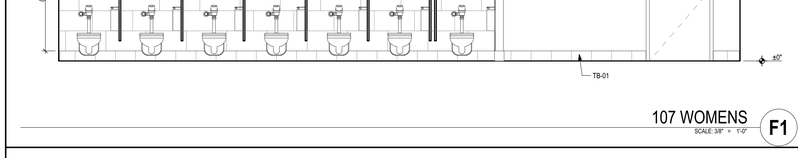
109 FAMILY E — H3

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



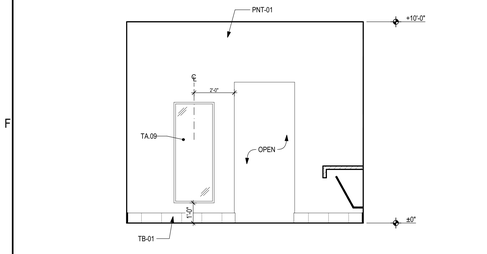
109 FAMILY S — H1

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



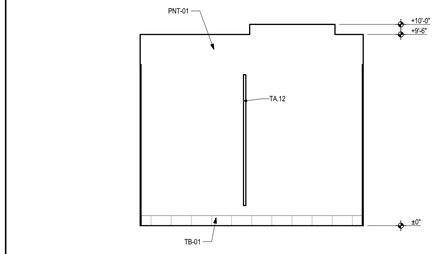
107 WOMENS — F1

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



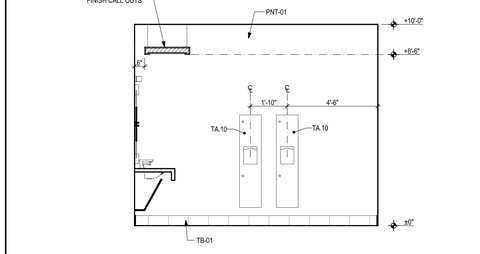
108 MENS SIDE WALL — E12

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



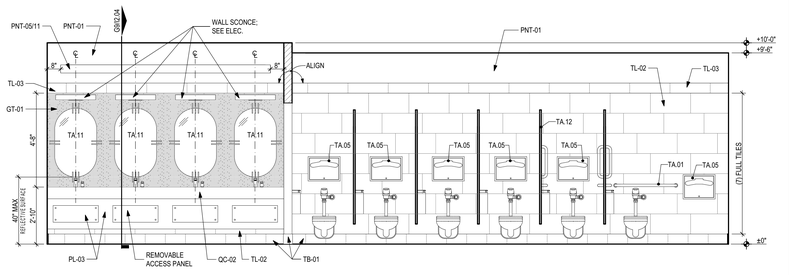
108 MENS - SIDE ELEV — E9

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



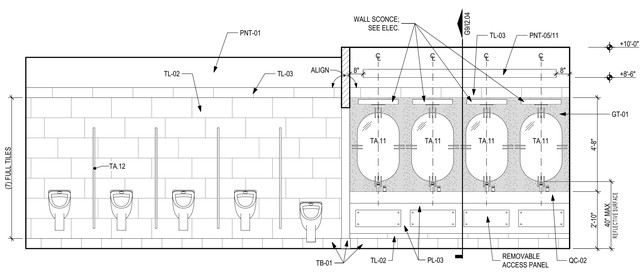
108 MENS - SIDE ELEV AT VANITY — E6

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



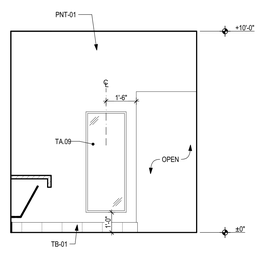
107 WOMENS - VANITY WALL — D1

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



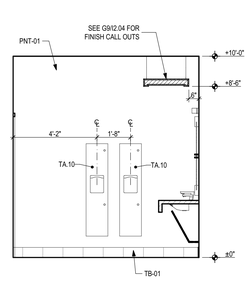
108 MENS - VANITY WALL — C10

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



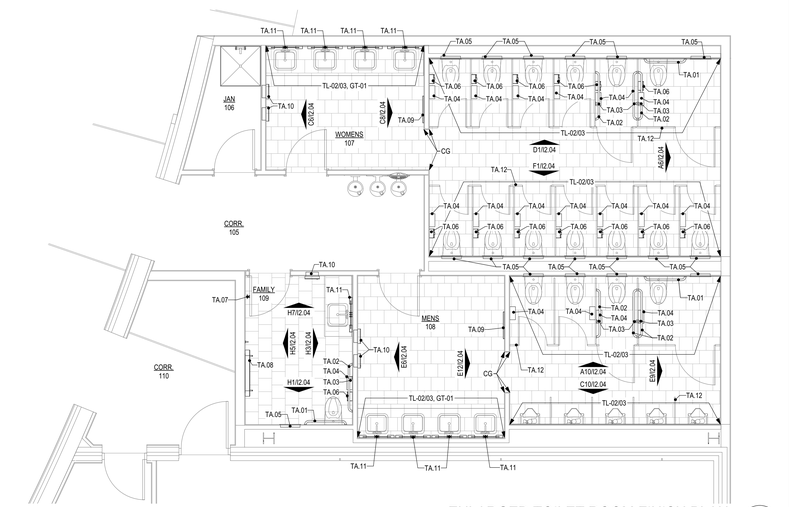
107 WOMENS — C8

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



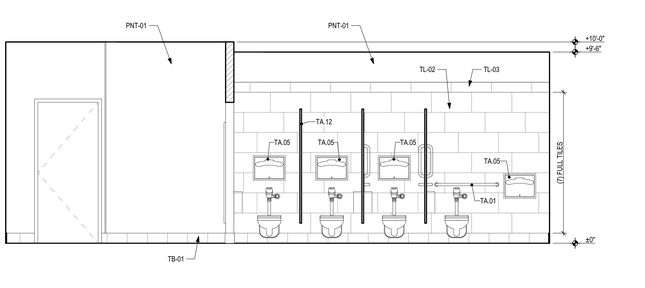
107 WOMENS - SIDE ELEV — C6

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



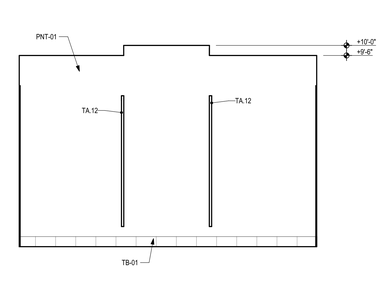
ENLARGED TOILET ROOM FINISH PLAN — A1

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



108 MENS — A10

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



107 WOMENS SIDE WALL — A6

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

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ENLARGED TOILET PLANS, ELEVATIONS, AND DETAILS

I2.04

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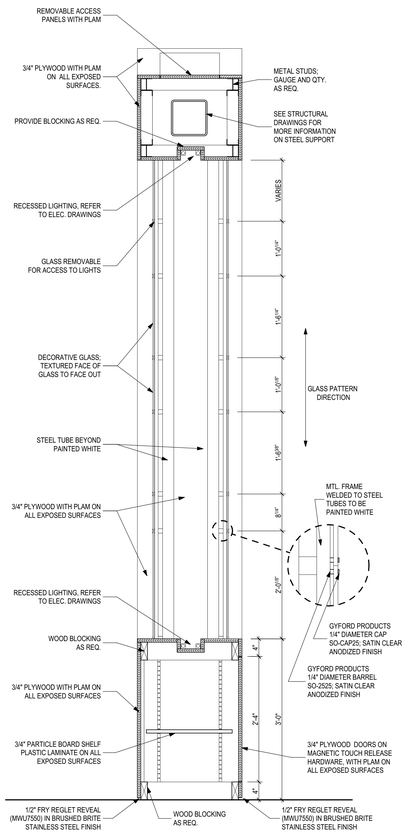
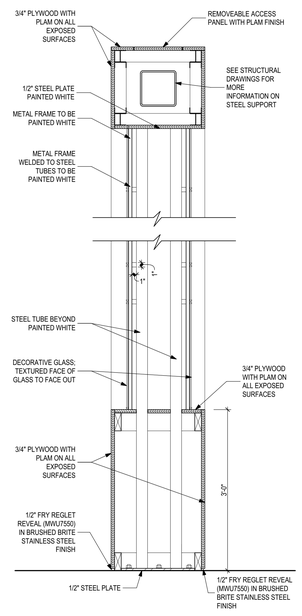
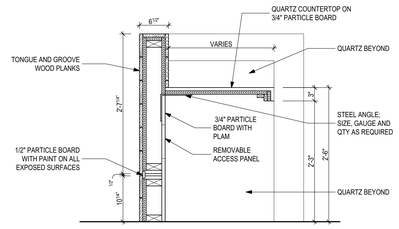


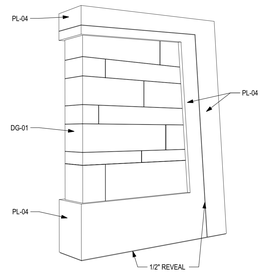
FEATURE WALL @ CABINET — SCALE: 1" = 1'-0" — E12



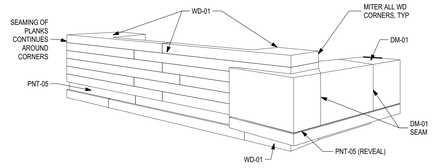
FEATURE WALL SECTION — SCALE: 1" = 1'-0" — E10



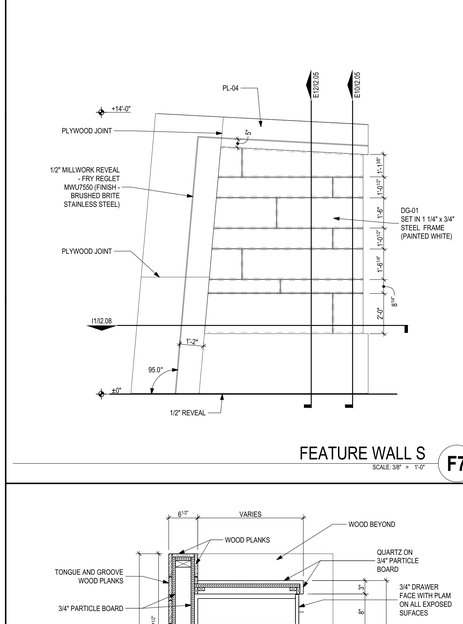
RECEPTION DESK SECTION — SCALE: 1" = 1'-0" — I7



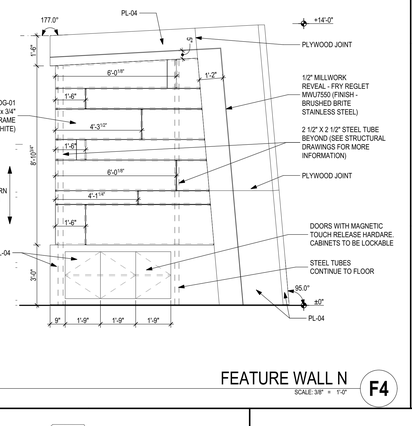
FEATURE WALL PERSPECTIVE — FOR DESIGN INTENT ONLY — NOT TO SCALE — I4



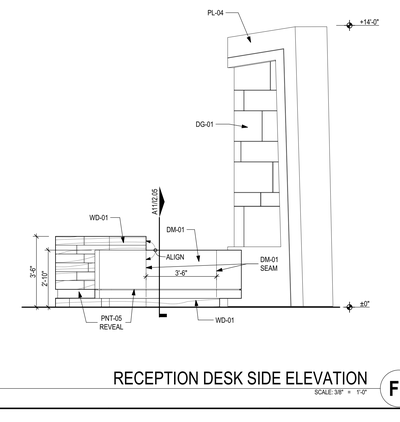
RECEPTION DESK PERSPECTIVE — FOR DESIGN INTENT ONLY — NOT TO SCALE — I1



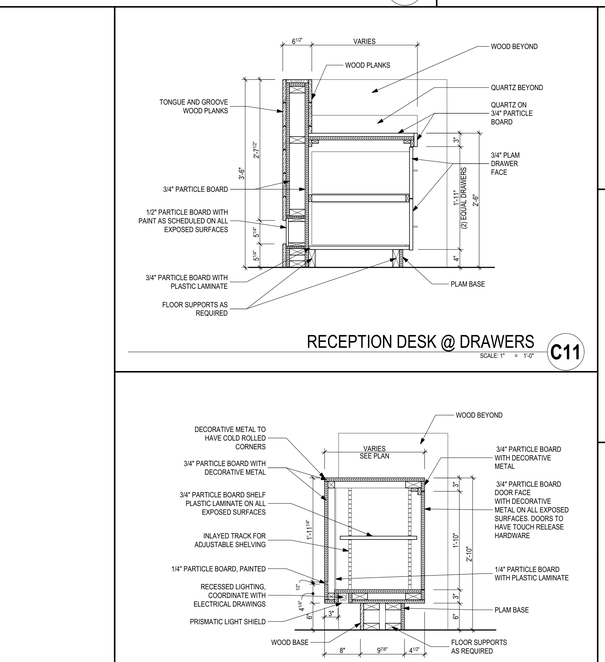
FEATURE WALL S — SCALE: 3/8" = 1'-0" — F7



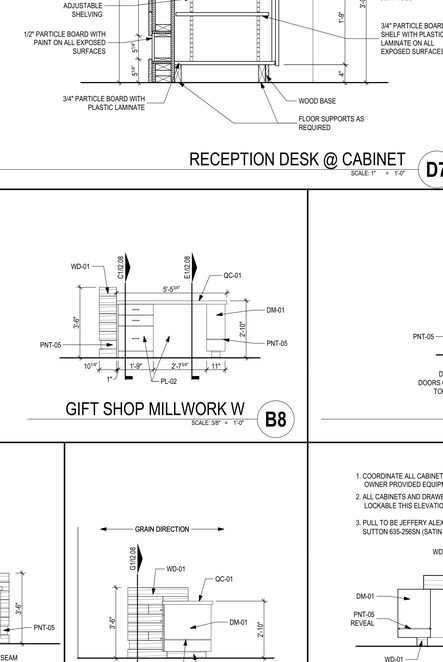
FEATURE WALL N — SCALE: 3/8" = 1'-0" — F4



RECEPTION DESK SIDE ELEVATION — SCALE: 3/8" = 1'-0" — F1



RECEPTION DESK @ DRAWERS — SCALE: 1" = 1'-0" — C11



RECEPTION DESK @ SIDE — SCALE: 1" = 1'-0" — A11

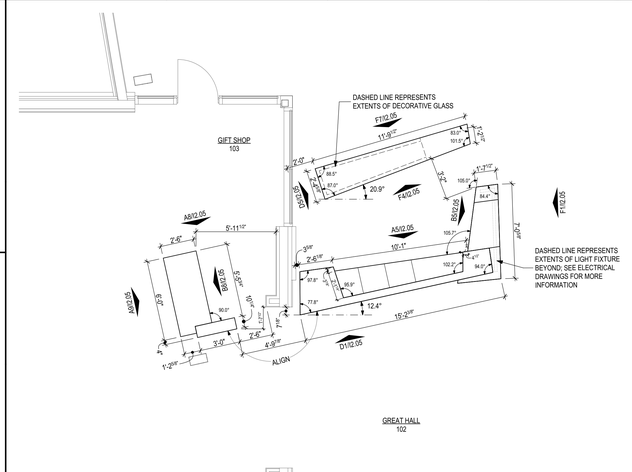
GIFT SHOP MILLWORK E — SCALE: 3/8" = 1'-0" — A9

GIFT SHOP MILLWORK S — SCALE: 3/8" = 1'-0" — A8

GIFT SHOP MILLWORK W — SCALE: 3/8" = 1'-0" — B8

RECEPTION DESK E — SCALE: 3/8" = 1'-0" — B5

RECEPTION DESK BACK ELEVATION — SCALE: 3/8" = 1'-0" — A5



ENLARGED PLAN AT DESK — SCALE: 1/4" = 1'-0" — A1

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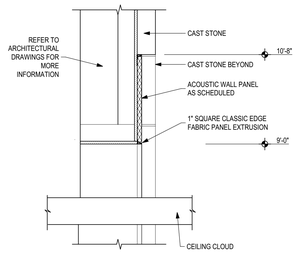
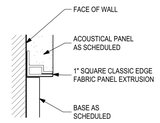
INTERIOR ELEVATIONS & DETAILS - RECEPTION AREA

I2.05

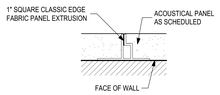
ISSUE DATE: 08-01-2023
PROJECT NUMBER: 22-0410
DRAWN BY: KP, MC, CL, MH
CHECKED BY: ...



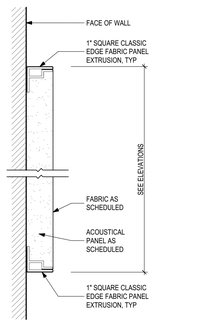
ACCOUSTIC WALL PANEL DETAIL — SCALE: 1" = 1'-0" — I13



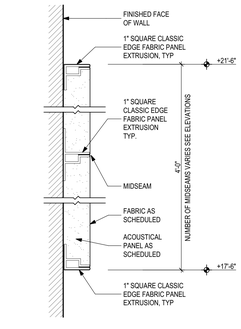
EDGE AT BASE — SCALE: 6" = 1'-0" — H13



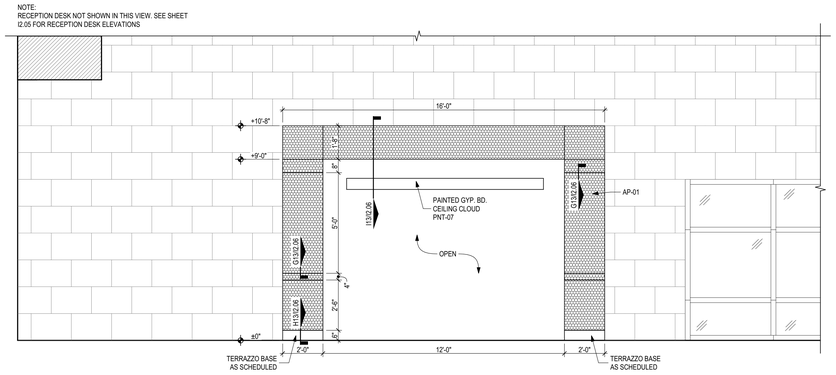
MID SEAM DETAIL — SCALE: 6" = 1'-0" — G13



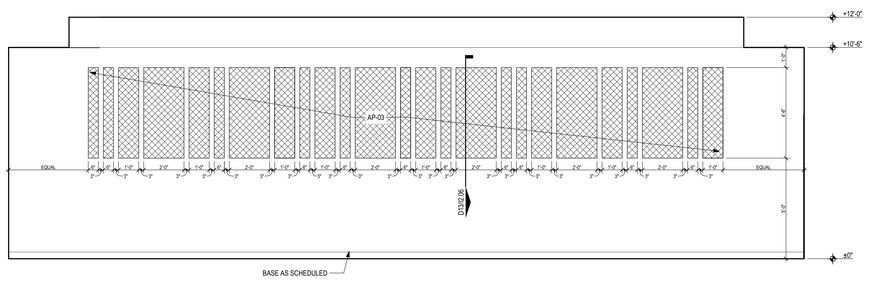
ACCOUSTIC WALL PANEL DETAIL — SCALE: 6" = 1'-0" — D13



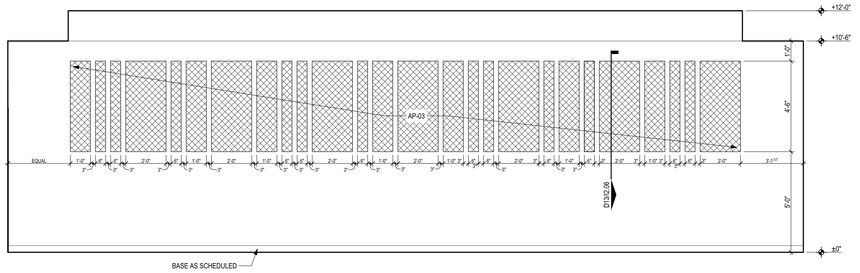
GREAT HALL AP DETAIL — SCALE: 6" = 1'-0" — A13



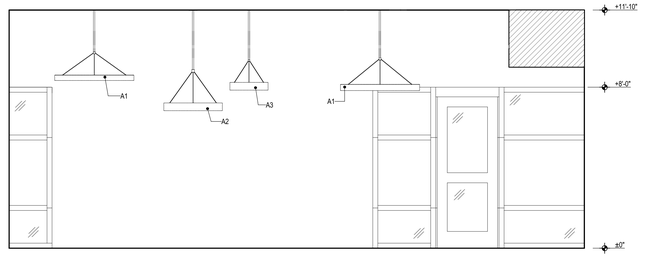
102 GREAT HALL W — SCALE: 3/8" = 1'-0" — H7



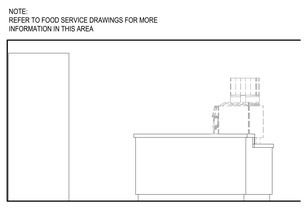
115 MEETING ROOM N — SCALE: 3/8" = 1'-0" — I1



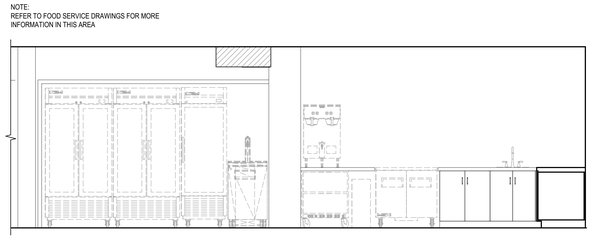
114 CLASSROOM S — SCALE: 3/8" = 1'-0" — G1



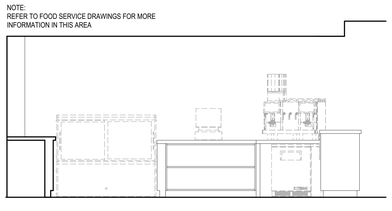
103 GIFT SHOP N — SCALE: 3/8" = 1'-0" — E4



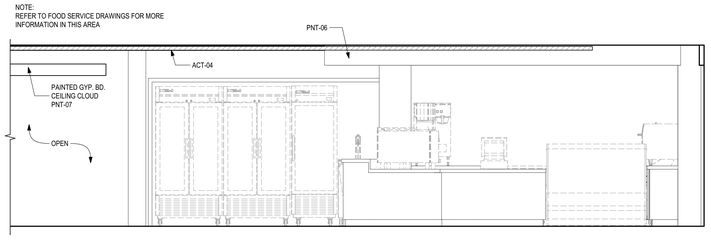
104A KITCHEN - END ELEVATION — SCALE: 3/8" = 1'-0" — C9



104A KITCHEN E — SCALE: 3/8" = 1'-0" — C4

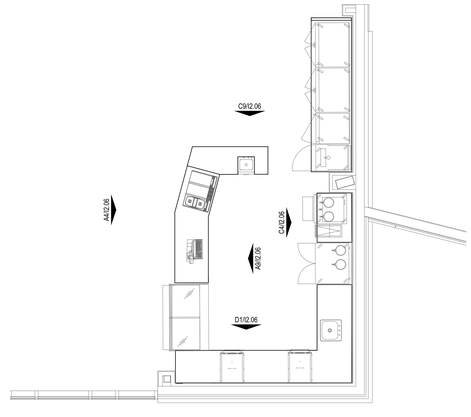


104A KITCHEN W — SCALE: 3/8" = 1'-0" — A9



104 CAFE E — SCALE: 3/8" = 1'-0" — A4

104A KITCHEN S — SCALE: 3/8" = 1'-0" — D1



ENLARGED PLAN AT CAFE/KITCHEN — SCALE: 1/4" = 1'-0" — A1

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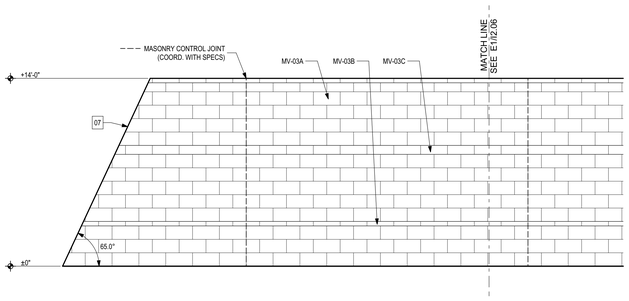
INTERIOR ELEVATIONS & DETAILS - GIFT SHOP

I2.06

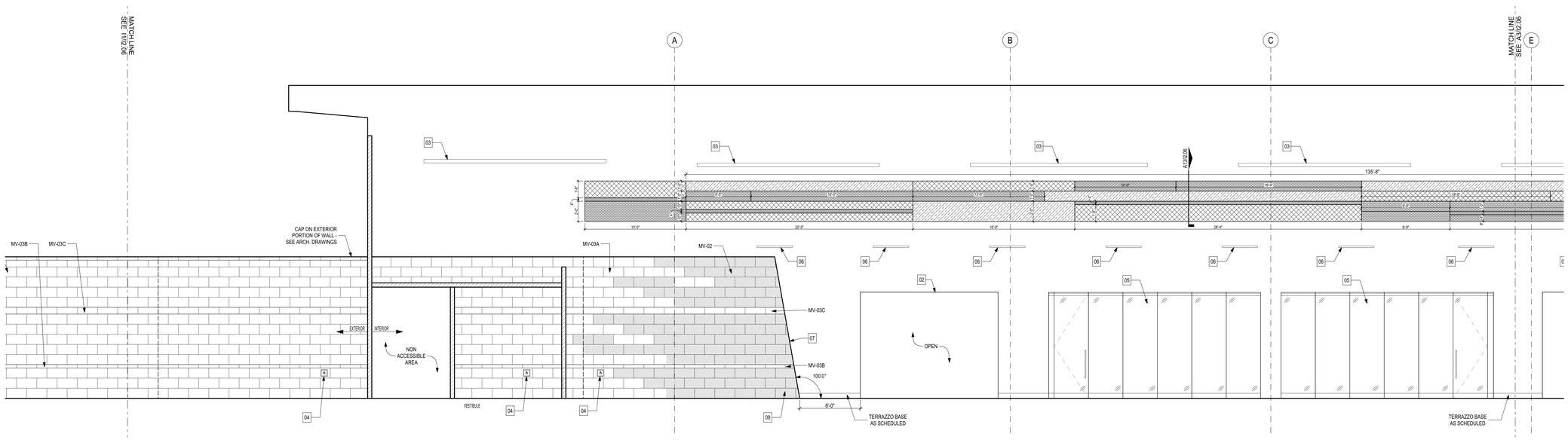
ISSUE DATE: **08-01-2023**
PROJECT NUMBER: **22-0410**
DRAWN BY: **KP, MC, CL, MH**
CHECKED BY: **...**



102 GREAT HALL E - FLATTENED ELEVATION OF CURVED WALL

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

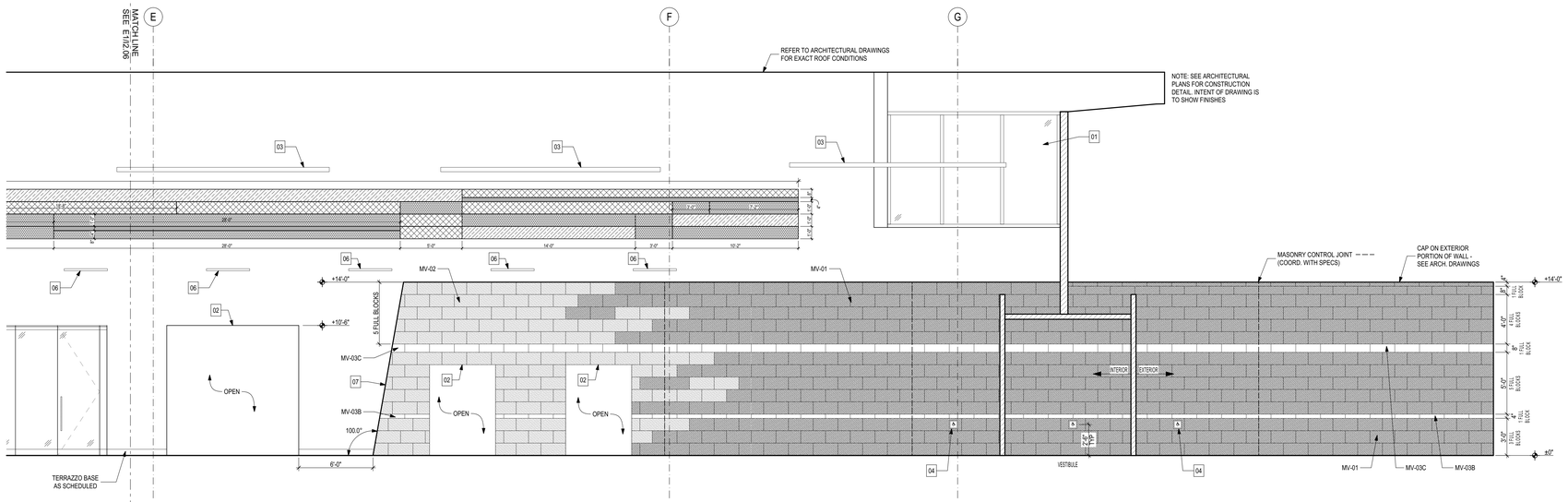
I1



102 GREAT HALL E - FLATTENED ELEVATION OF CURVED WALL

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

E1



102 GREAT HALL E - FLATTENED ELEVATION OF CURVED WALL

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

A3

ACCOUSTICAL WALL
PANEL LEGEND

- AP-01
- AP-02
- AP-03
- AP-04

KEYED NOTES

01 ALUMINUM CURTAIN WALL SYSTEM - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

02 OPENING IN WALL - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

03 CEILING CLOUD - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

04 ADA PUSH BUTTON WALL MOUNT; CENTER IN MASONRY UNIT. COORDINATE LOCATIONS WITH ELECTRICAL DRAWINGS

05 OPERABLE GLASS PARTITION - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

06 MECHANICAL DIFFUSERS, COORDINATE WITH MECH. DRAWINGS

07 VENEER COURSING TO BE LAID OUT SO THAT THE MINIMUM CUT SIZE IS NO LESS THAN 6" WIDE. ALL EXPOSED EDGES OF VENEER TO BE FACTORY FINISHED.

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INTERIOR ELEVATIONS - GREAT HALL

I2.07

ISSUE DATE: **08-01-2023**
PROJECT NUMBER: **22-0410**
DRAWN BY: **KP, MC, CL, MH**
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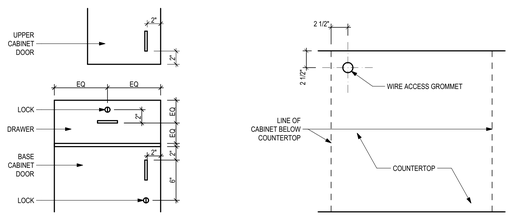
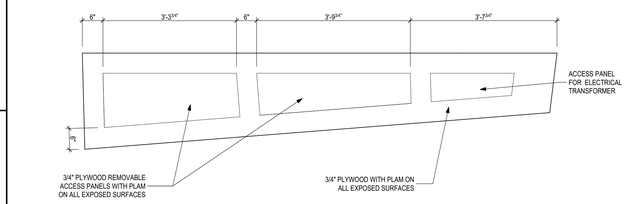


1 ELEVATION - CABINET PULL LOCATIONS

2 PLAN - WIRE ACCESS CUTOUT

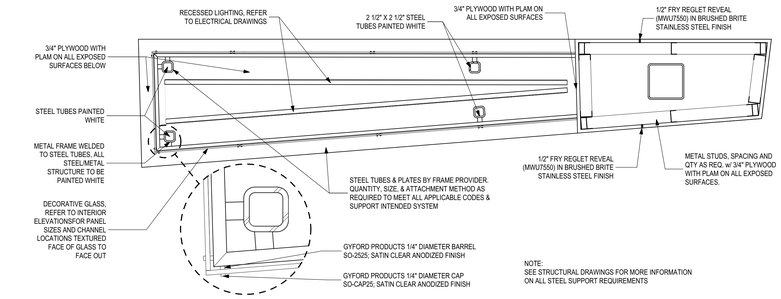
CABINET HARDWARE DETAILS H11

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



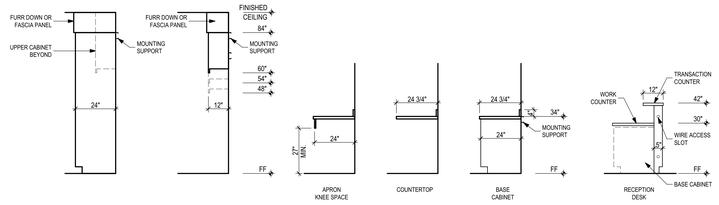
FEATURE WALL - TOP PLAN VIEW I6

SCALE: 3/4" = 1'-0"



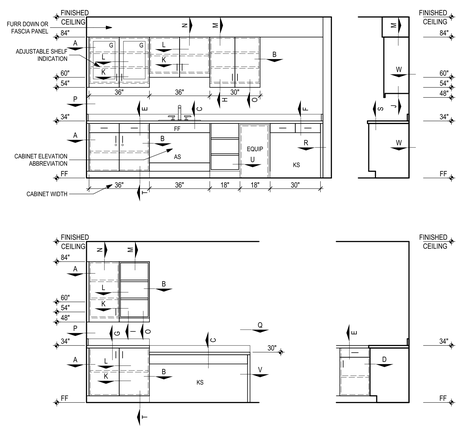
FEATURE WALL CROSS SECTION I1

SCALE: 1" = 1'-0"



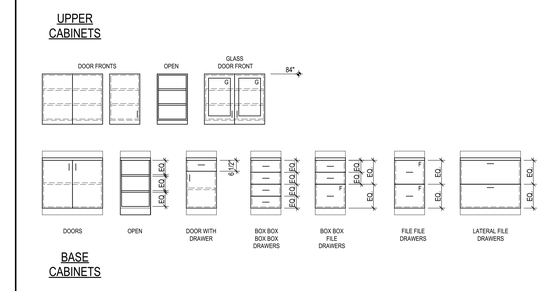
CABINET DIMENSIONS G6

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



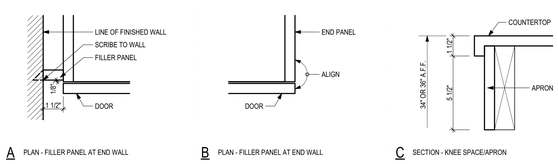
CABINET ELEVATIONS E11

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



CABINET TYPES E6

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



CABINET ASSEMBLY DETAILS A6

SCALE: 3" = 1'-0"

CABINET HARDWARE

HARDWARE NOTES: ADJUSTABLE SHELF SUPPORTS: STANDARD SIDE-MOUNTED SYSTEM USING MULTIPLE HOLES FOR PIN SUPPORTS AND COORDINATED SELF RESTS, SATIN CHROME FINISH U.N.O. , FOR NOMINAL 1 INCH SPACING ADJUSTMENTS. DRAWER AND DOOR PULLS: INTERIOR DESIGNER TO SPECIFY. CABINET LOCKS: KEYED CYLINDER, TWO KEYS PER LOCK, MASTER KEYED, STEEL WITH FINISH TO MATCH PULL. CATCHES: TOUCH TYPE. DRAWER SLIDES: FULL EXTENSION, STATIC LOAD CAPACITY - EXTRA HEAVY DUTY GRADE, BOTTOM MOUNTED, POSITIVE TYPE STOPS, SELF CLOSING/STAY CLOSED TYPE. HINGES: FULLY CONCEALED HINGES, 2 PAIRS PER DOOR, EUROSTYLE-SELF CLOSING, STEEL WITH SATIN FINISH.

CABINET HARDWARE:

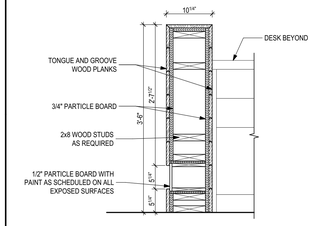
BOH AREA CASEWORK PULLS: EPCO 4" STAINLESS STEEL WIRE PULL, FINISH: SATIN STAINLESS STEEL (EPC-MC402-4-SS)

GENERAL CABINET NOTES

1. REFERENCE ARCHITECTURAL PLANS FOR MILLWORK FINISH AND MATERIAL SPECIFICATIONS.
2. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF THE CABINET CONTRACTOR.
3. ALL "INSTALLED" CABINETRY SHALL COMPLY WITH LOCAL BUILDING CODES.
4. ALL CABINET FINISHES SHALL BE BUILT AS NOTED ON ARCHITECTURAL PLANS.
5. ALL "INSTALLED" CABINETS SHALL BE SCRIBED TO WALL OR CEILING AS REQUIRED. CABINET CONTRACTOR TO CHECK JOB PROGRESS AND COORDINATE WITH OTHER TRADES INVOLVED.
6. THE CABINET CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT AS REQUESTED.
7. THE CABINET CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
8. THE CABINET CONTRACTOR SHALL PROVIDE RUBBER BUMPERS ON ALL WOOD DOORS.
9. WHERE MEMBERS ARE MITERED OR BUTTED, THEY SHALL BE JOINED AND SECURED IN A MANNER TO ENSURE AGAINST THE JOINT OPENING.
10. ALL FINISHED WORK, AS FAR AS PRACTICAL, SHALL BE ASSEMBLED AND FINISHED IN THE SHOP AND DELIVERED TO THE BUILDING READY TO ERECT IN PLACE.
11. ALL THE WORK SHALL BE FABRICATED, ASSEMBLED, FINISHED, AND ERECTED TO MEET CURRENT AWI STANDARDS. REFERENCE SECTION 6400.
12. ALL MILLWORK SHOP DRAWINGS ARE TO CALL OUT ALL MATERIALS AND FINISHES, ALL JOINTS, CORNERS, AND EDGES ARE TO BE DETAILED IN INDIVIDUAL DETAILS. ALL DIMENSIONS, CRITICAL OR OTHERWISE, ARE TO BE CALLED OUT ON THE SHOP DRAWINGS.
13. ALL MILLWORK, SPECIAL PRODUCTS, AND SPECIAL ASSEMBLIES ARE SUBJECT TO SUBMITTAL AND SHOP DRAWING PREPARATION FOR REVIEW. SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE WAIVED UNLESS WRITTEN PERMISSION TO DO SO IS GIVEN BY THE ARCHITECT.
14. THE MILLWORK CONTRACTOR SHALL COORDINATE ALL MILLWORK INSTALLATIONS WITH OTHER SUBCONTRACTORS AND SHALL BEAR ANY COST ASSOCIATED WITH RECONFIGURATION OF MILLWORK IN CONFLICT WITH THE OTHER TRADES.
15. THE CABINET CONTRACTOR SHALL COORDINATE THE DELIVERY OF ALL MILLWORK ITEMS TO ENSURE THAT THEY WILL FIT THROUGH EXISTING DOORS AND INTO EXISTING ELEVATOR COMPARTMENTS. MILLWORK SHALL BE FABRICATED, WHOLE OR IN COMPONENTS AS NECESSARY TO ACCOMMODATE DELIVERY INTO THE BUILDING.
16. CABINET ARE WIDTHS BASED ON 3" MODULE INCREMENT U.N.O.
17. PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.
18. PROVIDE FINISHED END PANELS / RETURNS AT OPEN ENDED CABINETS, KNEE SPACES AND ACCESSIBLE SINKS.
19. PROVIDE 1 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE SPACES.
20. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION, FILLER PANELS SHALL BE EQUAL WIDTH.
21. PROVIDE WALL BRACKET SUPPORTS AT 36" O.C. MAX. TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
22. PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES. WHEN AN ADJACENT WALL IS LESS THAN 2 FEET AWAY FROM A SINK AND FULL HEIGHT BACKSPLASH IS CALLED OUT, A FULL HEIGHT END SPACE IS REQUIRED U.N.O.
23. PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS AT THE FOLLOWING LOCATIONS:
    - ONE EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE.
    - WIRE ACCESS HOLES WITH GROMMETS AT 36" O.C. FOR CONTINUOUS RUNS OF KNEE SPACE.
    - ONE WIRE ACCESS GROMMET BEHIND EACH KEYBOARD DRAWER.
24. PROVIDE ADJUSTABLE SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS U.N.O. ON ELEVATIONS:
    - BASE CABINET: ONE SHELF.
    - FULL HEIGHT CABINET: FIVE SHELVES; ONE FIXED.
    - WALL CABINET: ONE SHELF AT 24" HIGH, TWO SHELVES AT TALLER CABINETS. SHELVES TO BE 3/4" THICK FOR SPANS UP TO 32" AND 1" THICK FOR SPANS UP TO 36".
25. GLASS FRONTS TO BE 1/4" THICK CLEAR TEMPERED GLASS U.N.O.
26. PROVIDE AN APRON AT ALL KNEE SPACES 34" OR HIGHER U.N.O.
27. ALL CABINETS TO BE PLASTIC LAMINATE U.N.O. ALL COUNTERS TO BE PLASTIC LAMINATE U.N.O. ALL COUNTERS WITH SINKS OR IN ROOMS WITH SINKS TO BE SOLID SURFACE MATERIAL U.N.O.
28. ALL CLEAN SINKS SHALL HAVE SPLASH GUARDS WHERE THERE IS NOT A WALL OR FULL HEIGHT CABINET U.N.O.
29. PLASTIC LAMINATE WOOD GRAIN TO RUN VERTICALLY ON CABINET AND PLAM FASCIA U.N.O.
30. WHEN WIDTH OF FASCIA PANEL EXCEEDS 48", ALIGN VERTICAL JOINTS WITH CASEWORK JOINTS BELOW.
31. ALL LAMINATE COUNTERTOPS TO HAVE CLASSIC SQUARE EDGE U.N.O. ALL GRANITE, QUARTZ AND SOLID SURFACE COUNTERTOPS TO HAVE EASED EDGE U.N.O.
32. SEE FINISH LEGEND FOR DEFINITION OF INTERIOR MATERIAL DESIGNATIONS.
33. ALL ROUGH EDGES MUST BE SANDED SMOOTH, ALL FASTENERS TO BE FLUSH WITH SUBSTRATE OR FINISH MATERIAL, AND ALL EDGES AT WET LOCATIONS TO BE MOISTURE SEALED. THIS INCLUDES THE UNDERSIDE AND CONCEALED AREAS OF MILLWORK.
34. PROVIDE DOOR STOPS ON CABINET DOORS ADJACENT TO WALLS TO PREVENT DOORS FROM CRASHING INTO THE WALL. ALLOW DOOR TO OPEN 85-88° U.N.O.

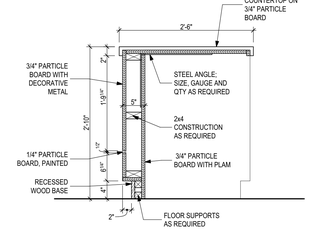
CABINET ELEVATION ABBREVIATIONS

AS	ACCESSIBLE SINK	KB	KEYBOARD DRAWER
BF	BOX FILE	KS	KNEE SPACE
BBF	BOX BOX FILE	LK	DRAWER/CABINET LOCK
FD	FILE DRAWER	SS	SLIDING SHELF
FE	FINISHED END PANEL	TC	TRASH CHUTE - HOLE IN COUNTERTOP
FF	FALSE FRONT	TL	TASK LIGHT
FS	FIXED SHELF	UCL	UNDER CABINET LIGHTING
GF	GLASS FRONT		
GR	GROMMET		



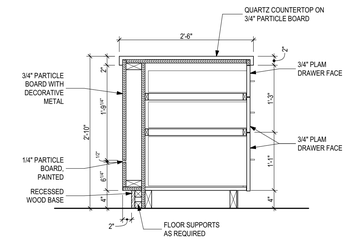
DESK @ WOOD G1

SCALE: 1" = 1'-0"



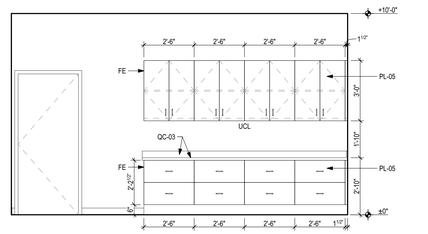
GIFT SHOP DESK E1

SCALE: 1" = 1'-0"



DESK @ BBF C1

SCALE: 1" = 1'-0"



122A VIEWING ROOM S A1

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

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INTERIOR ELEVATIONS & DETAILS

I2.08

ISSUE DATE: **08-01-2023**
PROJECT NUMBER: **22-0410**
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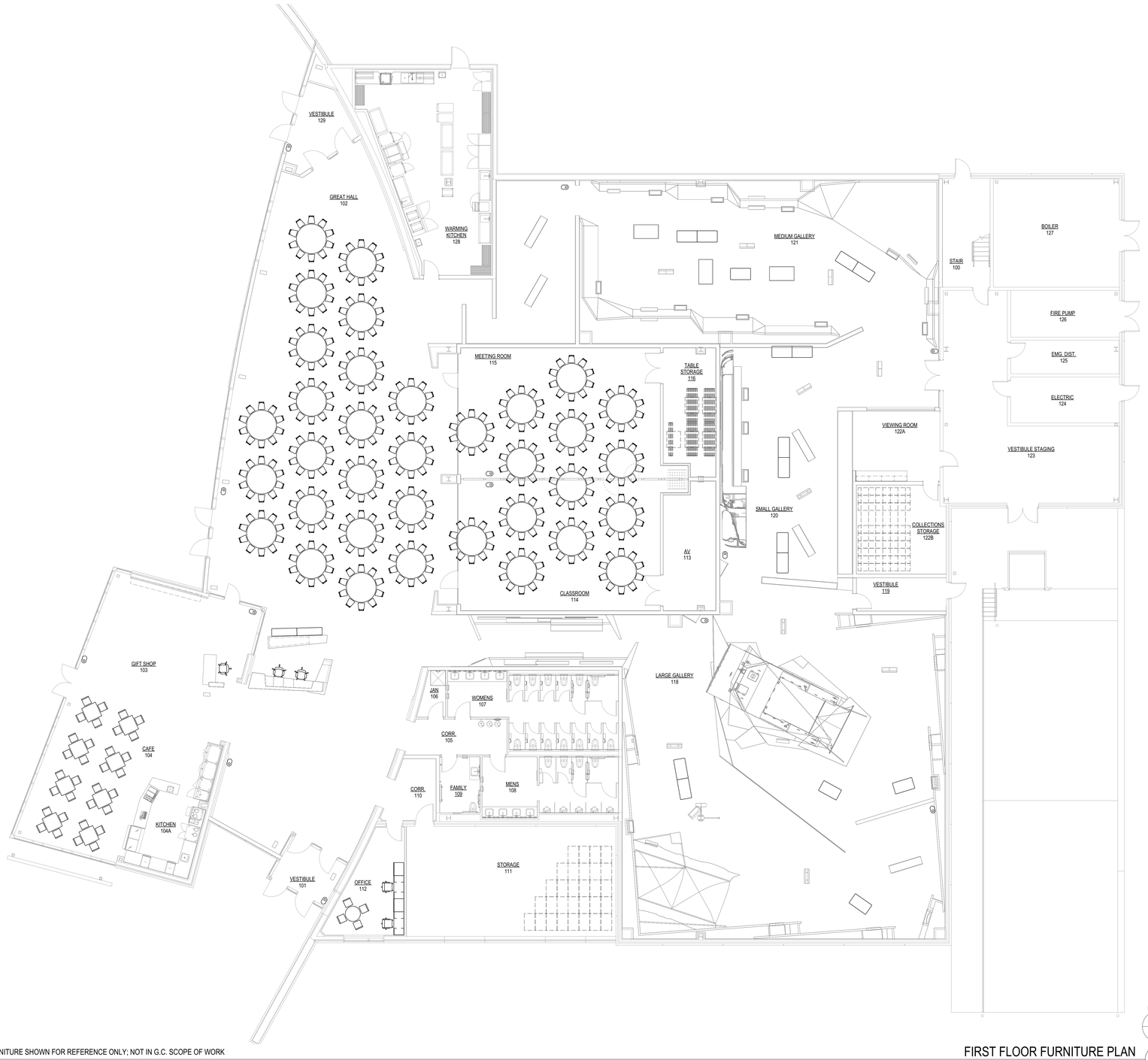

*FURNITURE SHOWN FOR REFERENCE ONLY; NOT IN G.C. SCOPE OF WORK

PLAN NORTH

FIRST FLOOR FURNITURE PLAN

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

A1

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OVERALL FURNITURE PLAN

I2.09

ISSUE DATE: **08-01-2023**
PROJECT NUMBER: **22-0410**
DRAWN BY: **KP, MC, CL, MH**
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