

MICHIGAN STATE
U N I V E R S I T Y

INFRASTRUCTURE PLANNING AND FACILITIES
PLANNING, DESIGN AND CONSTRUCTION

April 23, 2024

TITLE OF PROJECT: Holmes Hall – 1st Floor Ceiling Replacement

PROJECT ISSUE DATE: April 10, 2024

PROJECT NUMBER: PR228518

ADDENDUM NO: 3

GENERAL

This Addendum is issued prior to receipt of Proposals to amend the Contract Documents identified as Holmes Hall – 1st Floor Ceiling Replacement.

Except as otherwise specifically mentioned, the general character of the work required by this Addendum shall be the same as originally specified, and all incidentals required in connection with the work hereinafter described shall be included even though not specifically mentioned. When an item is mentioned with additional specifications given, reference shall be made to the original specifications.

Drawing(s) accompanying this Addendum include: N/A

No drawings accompany this Addendum

TRADES – N/A

ITEM NO. DESCRIPTION

1. RFI Responses and Attachments:
 - i. Light cutsheet attached.
 - a. Height of new ceiling: Ceiling to be as high as possible, given that the light fixture is 2.25” in depth.
 - ii. Ceiling tile cutsheet attached.
 - iii. Asbestos report attached.
 - iv. Visqueen will be sufficient for any temporary wall protection that is needed.
 - v. Highlighted plan attached to show locations that will need a soffit where the drop ceiling and windows/decorative divider wall connect.
 - a. Window Details Drop Ceiling attached to show detail with typical conditions.
 - b. Compass section thru soffit acoustical transition attached for preferred trim for soffit application.
 - c. Compasso IC656 attached to show detail/section of compass trim.

DIGITAL NAVIGATION

[Ordering Tree](#) [SensorSwitch JOT](#) [nLight Platform](#) [Photometrics](#) [Performance Data](#)

FEATURES & SPECIFICATIONS

INTENDED USE — The CPX Series LED is a low-glare back-lit panel featuring an external driver. This cost-effective, reliable flat panel is visually comfortable and can be recessed mounted. Suitable for many applications such as schools, offices, retail, convenience stores, hospitals, healthcare facilities and other commercial spaces. A typically configured CPX features a **Unified Glare Rating (UGR)** starting at 17. Certain airborne contaminants can diminish the integrity of acrylic. [Click here for Acrylic Environmental Compatibility table for suitable uses.](#) **U.S. Patent No. 10,681,784.**

CONSTRUCTION — A metal frame with satin white lens provides excellent shielding and uniform luminance. CPX's low-profile design provides increased installation flexibility especially in restricted plenum spaces. The back plate includes integral T-bar clips for installation into T-grid ceilings.

ELECTRICAL — Direct-lit Panel with Long-Life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. Greater than 70% LED lumen maintenance at 60,000 hours (L80>60,000). 0-10V dimming driver. Options available for dimming to 1% or 10%. Contains non-isolated dimming leads.

Integrated Wireless Sensor (single room control) — SensorSwitch wireless dimming (JOT) or luminaire embedded occupancy sensor control (VPIR15) with JOT pairing for wall switch On/Off/Dimming control or auto off when the space is unoccupied. See page 8 for more details of the integrated wireless sensor.

Integrated Sensor (nLight® Wired Networking) — This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

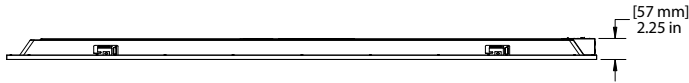
Integrated Smart Sensor (nLight Air Wireless Platform) — The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment.

LISTINGS — CSA certified to meet US and Canadian standards. Damp location listed. IC rated. IP5X Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. Rated for NSF/ANSI Standard 2 - Light Fixture for Splash Zone and Non-Food Zone. NOM Certified.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Catalog Number
Notes
Type

CPX LED PANEL

Configurable
1' x 4', 2' x 2' and 2' x 4'



[†] Tested in accordance with ISO 14644-14; suitable for ISO Class 5-9 positive and negative pressure clean rooms.

Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.


To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Configurable CPX LED Flat Panel

 Design Select options indicated by this color background.

 Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

ORDERING INFORMATION

Example: CPX 2X2 3200LM 80CRI 40K SWL MIN10 ZT MVOLT E10WLCP

Series	Fixture Dimension	Lumen Output	CRI	Color Temperature	Diffuser	Minimum Dimming Level	
CPX LED Panel	1X4 1' X 4'	Standard lumens:	80CRI 80 CRI 90CRI 90 CRI	30K 3000K 35K 3500K 40K 4000K 50K 5000K	SWL Satin White A12 Prismatic A12 Pattern	MIN10 Dims to 10% MIN1 Dims to 1% ‡	
		2000LM 2000 Lumens					3200LMHE 3200 Lumens
		3200LM 3200 Lumens					4000LMHE 4000 Lumens
	2X2 2' X 2'	2000LM 2000 Lumens	3200LMHE 3200 Lumens				
		3200LM 3200 Lumens	4000LMHE 4000 Lumens				
		4000LM 4000 Lumens	5000LMHE 5000 Lumens				
	2X4 2' X 4'	3000LM 3000 Lumens	4000LMHE 4000 Lumens				
		4000LM 4000 Lumens	5000LMHE 5000 Lumens				
		5000LM 5000 Lumens					
6000LM 6000 Lumens							
7200LM 7200 Lumens							
8500LM 8500 Lumens							
	10000LM 10000 Lumens ‡						

Dimming ‡	Voltage	Step Level Dimming	Emergency Option
(blank) If Controls are being used.	MVOLT MVOLT, 120-277V	(blank) None	(blank) No battery
ZT Generic 0-10V Dimming	120 120V	SLD Step Level Dimming ‡	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡
EZT eldoLED 0-10V Dimming ‡	277 277V		E10WRSTAR Emergency battery pack, Enabled with STAR ‡
	347 347 ‡		E7W Emergency Battery Pack, 7W, CA Title 20 Noncompliant ‡
			GTD Generator Transfer Device ‡

Control Input	Sensor	Options
(blank) No controls	(blank) No sensor	GLR Fast-blowing fuse ‡ GMF Slow-blowing Fuse ‡
SSE Sensor Switch Embedded	APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell APDT Occ sensor dual tech (passive infrared & microphonics) and auto dimming photocell VAPIR15 Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit ‡ PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit ‡ PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage ‡ PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡
NLIGHT nLight enabled NLIGHTER nLight enabled, for use with generator supply EM power NLIGHTLM nLight enabled with lumen management NLIGHTERLM nLight enabled with lumen management, for use with generator supply EM power	(blank) No sensor, Control Input function only PIR Occ sensing with passive infrared - on/off functionality PDT Occ sensor dual tech (passive infrared & microphonics) APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell APDT Occ sensor dual tech (passive and microphonics) and auto dimming photocell.	DWAM Anti-Microbial paint CP Chicago plenum ‡ NPLT Narrow Pallet BAA Buy America(n) Act Compliant
NLTAIR2 nLight AIR Generation 2 (wireless) enabled ‡ NLTAIREM2 nLight AIR Generation 2 (wireless) enabled and UL924 Emergency Operation, via power interrupt detection. ‡	(blank) No sensor, Control Input function only APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell APDT Occ sensor dual tech (passive and microphonics) and auto dimming photocell APIREM Occ sensing with passive infrared - on/off functionality and auto dimming photocell and UL924 Emergency operation, via power interrupt detection APDTEM Occ sensing dual tech- ((passive infrared & microphonics) and auto dimming photocell and UL924 Emergency operation, via power interrupt detection	
JOT Wireless room control with "Just One Touch" pairing	(blank) No sensor, Control Input function only VAPIR15 Vertex low-profile on/off occupancy sensor with auto dimming photocell at 15ft mounting height	

NOTE: ‡ indicates option chosen has ordering restriction or note. Please reference restrictions/notes chart on next page. Restriction notes are sorted in the sequence they appear in the ordering tree.

OPTION VALUE RESTRICTIONS/ NOTES

‡ Option Value Ordering Notes/ Restrictions	
Option value	Restriction
10000LM	Not available with JOT or with VAPIR15.
MIN1	Required for all Control Input Options, except JOT.
Dimming	If Control Input option selected leave this section blank.
EZT	Not available with 10000LM combined with 2X4.
347	347 not available with SLD, E10WLCP, E7W, and GTD Options.
SLD	Leave Minimum Dimming Level and Dimming option sections blank. Not available with MIN1, MIN10, EZT, ZT or GTD. Not available with any controls.
E10WLCP, E7W	Not available with 347. Configurations with E10WLCP or E7W to be used in daisy chaining or through wiring will require a Y connector not supplied. If used with CP option the contractor must verify that the Y connector is Chicago Plenum rated.
E10WRSTAR	Not compatible with NLTAIR2, JOT, SSE or 347.
GTD	Not available with 347, SLD or in 1X4 combined with 6000LM.
NLTAIR2	See UL924 Sequence of Operation Chart below. Can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options .
NLTAIREM2	See UL924 Sequence of Operation Chart below. Leave Sensor option section blank, not available with APIR, APDT, APIREM, or APDTEM.
GLR, GMF	Must specify voltage, only available with 120 or 277V.
PWS1836	Not available with E10WLCP, E7W, GTD or E10WRSTAR.
PWS1846	Only available with E10WLCP, E7W or SLD.
PWS1856LV	Not available with E10WLCP, E7W or Controls.
PWS1846 PWSLV	Not available with Controls or SLD.
CP	CP Not available with PWS1836, PWS1846, PWS1856LV, or PWS1846 PWSLV, NLIGHT, NLIGHTER, NLIGHTLM, NLIGHTERLM options.

ACCESSORIES

Accessories: Order as separate catalog number.	
ILBLP CP10 HE SD A	IOTA 10 Watt Constant Power, High Efficiency LED Emergency Driver for CA Title 20 ‡
ELA PSDMT	Remote mount tray for ILBLP battery.
DGA14	Drywall grid adapter for 1x4 recessed fixture.
DGA22	Drywall grid adapter for 2x2 recessed fixture.
DGA24	Drywall grid adapter for 2x4 recessed fixture.
1X4SMKSH	Multi-Use Surface Mount Kit 1x4, Shallow Depth
2X2SMKSH	Multi-Use Surface Mount Kit 2x2, Shallow Depth
2X4SMKSH	Multi-Use Surface Mount Kit 2x4, Shallow Depth
1X4SMKSH PAF	Multi-Use Surface Mount Kit 1X4 Post-Paint
2X2SMKSH PAF	Multi-Use Surface Mount Kit 2X2 Post-Paint
2X4SMKSH PAF	Multi-Use Surface Mount Kit 2X4 Post-Paint
PAC 2DNF 36	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed, 36 inches. Recommended for 2X2 or 1X4 Panel Fixture.
PAC 2DF 36	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 36 inches. Recommended for 2X2 or 1X4 Panel Fixture. ¹
PAC 4DNF 36	Panel Air Craft Kit, 4 cables, No Power Feed, 36 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures.
PAC 4DF 36	Panel Air Craft Kit, 4 cables, with Power Feed, 36 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures. ¹
PAC 2DNF 72	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed 72 inches. Recommended for 2X2 or 1X4 Panel Fixture.
PAC 2DF 72	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 72 inches. Recommended for 2X2 or 1X4 Panel Fixture. ¹
PAC 4DNF 72	Panel Air Craft Kit, 4 cables, No Power Feed, 72 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures.
PAC 4DF 72	Panel Air Craft Kit, 4 cables, with Power Feed, 72 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures. ¹
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

Emergency Battery Delivered Lumens
Use the formula below to determine the delivered lumens in emergency mode
Delivered Lumens = 1.25 x P x LPW
P = Output power of emergency driver (10W for PS1055)
LPW = Lumen per watt rating of the luminaire.

Notes

- ¹ For MVOLT only, not available with 347V.

UL924 Sequence of Operation
The below information applies to all nLight AIR devices with an EM option.
<ul style="list-style-type: none"> EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds. Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts. Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.



The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

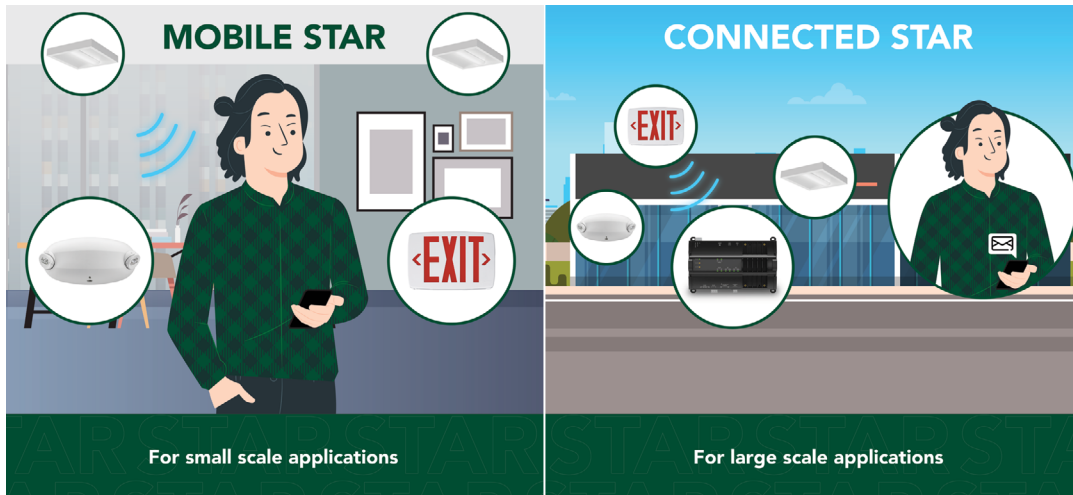
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the **ClAIRity™+** app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

-  Testing for 30 seconds every 30 days
-  Testing for 90 minutes once a year
-  Record keeping and to report to the authority having local jurisdiction



Optical Performance

UGR Values of CPX 1x4 @ 80CRI and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)				
Lumen Package	A12		SWL	
	Crosswise	Endwise	Crosswise	Endwise
2000LM	17.5	17.6	19.8	19.5
3200LM	19.1	19.2	21.4	21.1
3200LMHE	19.3	19.3	21.5	21.3
4000LM	19.9	20	22.2	21.9
4000LMHE	20	20.1	22.3	22
5000LM	20.6	20.7	22.9	22.6
6000LM	21.5	21.6	23.8	23.5

UGR Values of CPX 2x2 @ 80CRI and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)				
Lumen Package	A12		SWL	
	Crosswise	Endwise	Crosswise	Endwise
2000LM	17.3	17.6	19.7	19.5
3200LM	19.1	19.4	21.5	21.3
3200LMHE	19.1	19.4	21.5	21.3
4000LM	19.7	20.1	22.2	22
4000LMHE	19.7	20.1	22.2	22
5000LM	20.4	20.8	22.9	22.6
6000LM	21.1	21.5	23.6	23.3

UGR Values of CPX 2x4 @ 80CRI and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)				
Lumen Package	A12		SWL	
	Crosswise	Endwise	Crosswise	Endwise
3000LM	16.2	16.4	18.5	18.4
4000LM	17.4	17.8	19.9	19.7
4000LMHE	17.6	17.9	20	19.9
5000LM	17.7	17.9	20	19.9
5000LMHE	18	18.3	20.4	20.3
6000LM	18.2	18.5	20.6	20.5
7200LM	19.1	19.4	21.5	21.4
8500LM	19.7	20	22.1	22
10000LM	20.3	20.6	22.7	22.5

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

Lumen Maintenance

Reported Lumen Maintenance	Forecasted Lumen Maintenance
L90 @ 37k Hrs / L80 @ >60k Hrs / L70 @ > 60k Hrs	L90 @ 37k Hrs / L80 @ 76k Hrs / L70 @ 120k Hrs

*Note - Reported LM based on IES standard 6X test period for LM-80 report. Forecasted LM based on TM-21 report extrapolation past 6X LM-80 testing.

CPX compatible with Sensor Switch™ [WSX-D](#) and [SPOD](#) wall switches.



WSX-D



SPOD

PHOTOMETRICS

See www.lithonia.com for photometry reports.

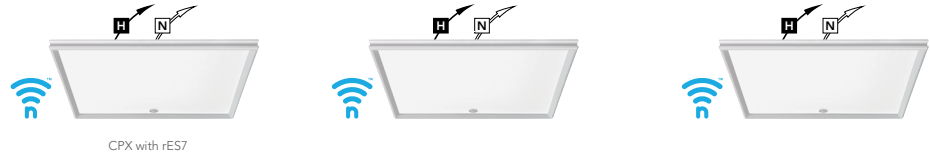
Intelligent Luminaire Technology Guide

Choose nomenclature from these columns

Control Input	+	Sensor	=	Sensor	Notes
				SSE	+
SSE	+	APDT	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell.
SSE	+	VPIR15	=	VERTEX 15F EZ VLP	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height.
JOT	+	(blank)	=	BTRM JOT BTA	Wireless room control with "Just One Touch" pairing.
JOT	+	VPIR15	=	BTRM JOT BTA + VERTEX 15F EZ VLP GSKT	Wireless room control with "Just One Touch" pairing.
NLIGHT	+	(blank)	=	nIO EZ PH	nLight enabled only. No onboard sensor.
NLIGHT	+	PIR	=	nIO EZ PH + nES 7	nLight enabled with PIR integral occupancy sensor.
NLIGHT	+	PDT	=	nIO EZ PH + nES PDT 7	nLight enabled with dual technology occupancy control sensor.
NLIGHT	+	APIR	=	nIO EZ PH + nES 7 ADCX	nLight enabled with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHT	+	APDT	=	nIO EZ PH + nES PDT 7 ADCX	nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTER	+	(blank)	=	nIO EZ PH ER	Emergency nLight enabled only. No onboard sensor.
NLIGHTER	+	PIR	=	nIO EZ PH ER + nES 7	Emergency nLight enabled with PIR integral occupancy sensor.
NLIGHTER	+	PDT	=	nIO EZ PH ER + nES PDT 7	Emergency nLight enabled with dual technology occupancy control sensor.
NLIGHTER	+	APIR	=	nIO EZ PH ER + nES 7 ADCX	Emergency nLight enabled with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTER	+	APDT	=	nIO EZ PH ER + nES PDT 7 ADCX	Emergency nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTLM	+	(blank)	=	nIO EZ PH N80	nLight enabled only with 80% constant lumen management. No onboard sensor.
NLIGHTLM	+	PIR	=	nIO EZ PH N80 + nES 7	nLight enabled with 80% constant lumen management with PIR integral occupancy sensor.
NLIGHTLM	+	PDT	=	nIO EZ PH N80 + nES PDT 7	nLight enabled with 80% constant lumen management with dual technology occupancy control sensor.
NLIGHTLM	+	APIR	=	nIO EZ PH N80 + nES 7 ADCX	nLight enabled with 80% constant lumen management with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTLM	+	APDT	=	nIO EZ PH N80 + nES PDT 7 ADCX	nLight enabled with 80% constant lumen management with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTERLM	+	(blank)	=	nIO EZ PH ER N80	Emergency nLight enabled only with 80% constant lumen management. No onboard sensor.
NLIGHTERLM	+	PIR	=	nIO EZ PH ER N80 + nES 7	Emergency nLight enabled with 80% constant lumen management with PIR integral occupancy sensor.
NLIGHTERLM	+	PDT	=	nIO EZ PH ER N80 + nES PDT 7	Emergency nLight enabled with 80% constant lumen management with dual technology occupancy control sensor.
NLIGHTERLM	+	APIR	=	nIO EZ PH ER N80 + nES 7 ADCX	Emergency nLight enabled with 80% constant lumen management with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTERLM	+	APDT	=	nIO EZ PH ER N80 + nES PDT 7 ADCX	Emergency nLight enabled with 80% constant lumen management with dual technology occupancy controls sensor with automatic dimming photocell.
NLTAIR2	+	(blank)	=	RIO EZ PH 180D G2	nLight AIR Generation 2 enabled.
NLTAIREM2	+	(blank)	=	RIO EZ PH ER 180D G2	nLight AIR Generation 2 enabled
NLTAIR2	+	APIR	=	RES7 G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDT	=	RES7 PDT 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APIREM	=	RES7 EM 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDTEM	=	RES7 PDT EM 90D G2	nLight AIR Generation 2 enabled.

nLight Platform

nLight AIR Wireless



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With the CLAIRITY+ Pro app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



nLight Wired Networking



Simple as 1,2,3

1. Install the nLight® Wired fixtures with embedded control
2. Install the nLight Wired wall switch
3. Connect the fixtures using standard CAT5e cables and the devices will automatically discover each other and work (plug and play)



nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

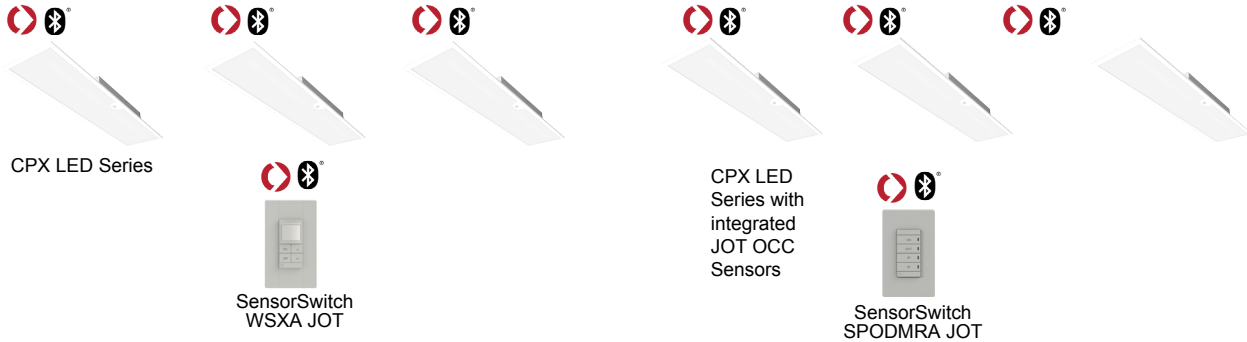
JOT WIRELESS



SensorSwitch JOT Enabled Wireless Solution

Designed with contractors in mind, the SensorSwitch JOT enabled wireless solution offers a straightforward approach to the installation and pairing of lighting fixtures and controls. Absolutely no 0-10V control wires and no mobile apps are needed with JOT enabled products, allowing for lightning speed installation right out of the box.

- 1. Power:** Install JOT enabled fixtures and controls as instructed.
- 2. Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- 3. Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.



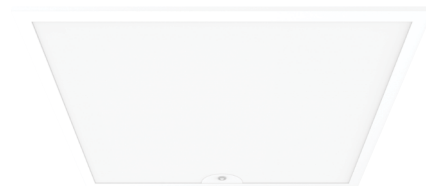
CPX 2X4 with JOT Vertex Sensor



CPX 1X4 with JOT Vertex sensor

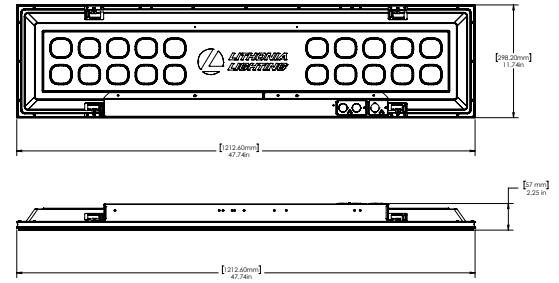
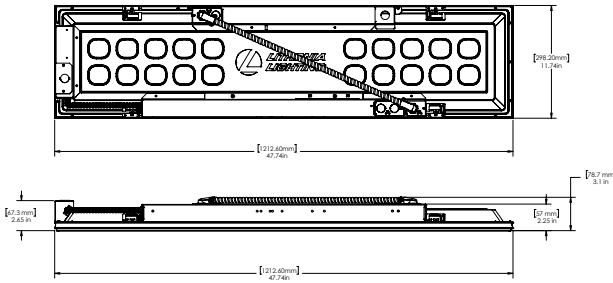


CPX 2X2 with JOT Vertex Sensor

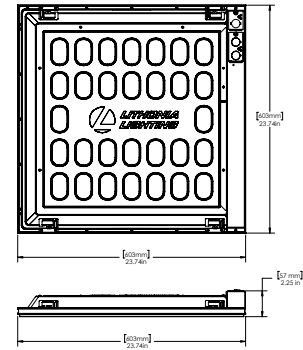
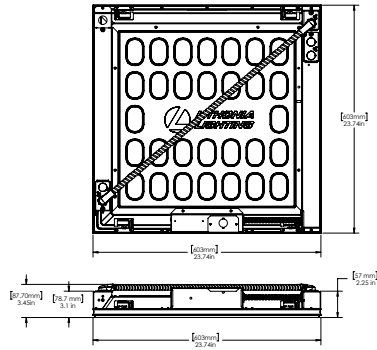


DIMENSIONS

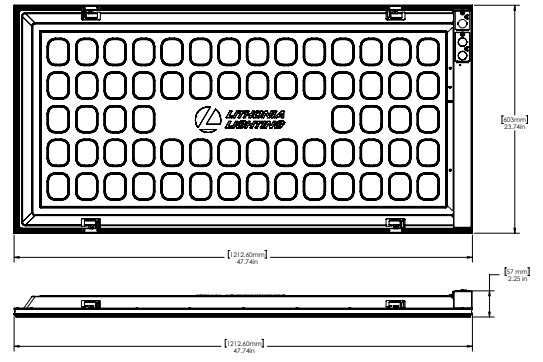
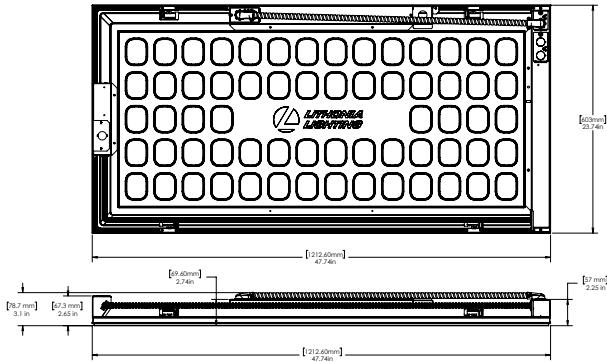
Length: 47.8" 121.4cm
 Width: 11.8" 30.0cm
 Depth: 2.3" 5.7cm
 Weight:
 Unit: 9.25 lbs
 Unit Carton: 10.25 lbs



Length: 23.8" 60.5cm
 Width: 23.8" 60.5cm
 Depth: 2.3" 5.7cm
 Weight:
 Unit: 9.45lbs
 Unit Carton: 10.45lbs

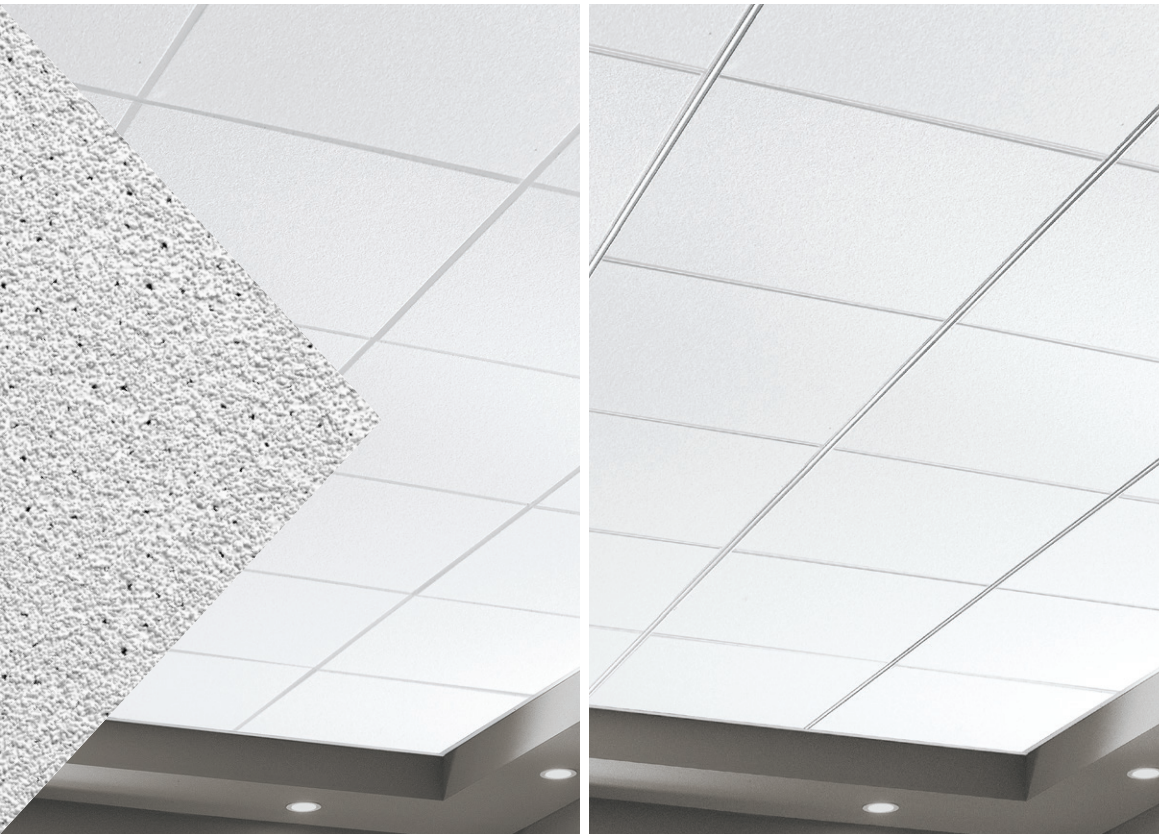


Length: 47.8" (121.4cm)
 Width: 23.8" 60.5cm
 Depth: 2.3" 5.7cm
 Weight:
 Unit: 17.25 lbs
 Unit Carton: 19.25 lbs



All dimensions are the same except the height with the STAR configuration. Includes conduit
 1X4- 3.21"-depth
 2X2- 3.24"-depth
 2X4-3.25"-depth

DUNE™
Square Lay-in & Tegular
fine texture




CAD/Revit® drawings at:
armstrongceilings.com/cadrevit

Dune™ Square Lay-in panels with Prelude® XL®
15/16" suspension system

Dune Tegular panels with Interlude® XL HRC
9/16" suspension system

Fine-textured panels are non-directional and durable with standard acoustical performance.

KEY SELECTION ATTRIBUTES

-  Dune™ panels are part of the Sustain® portfolio, and meet the most stringent industry sustainability compliance standards today
- Upgrade look at a modest price
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: Items 1773HRC, 1774HRC, 1775HRC, 1776HRC, 1777HRC (check armstrongceilings.com/greengenie)
- Mold- and mildew-resistant surface
- USDA-Certified Biobased Product – 99%
- Durable – Scratch-resistant
- Non-directional visual reduces scrap and installation time
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag (excludes items 1796 and 1798), mold and mildew
- 10-Year replacement panel available for items 1772, 1773, 1774, 1776



COLOR



White
(WH)

DETAILS (Other Suspension Systems compatible. Refer to listing on next page.)



1. Dune™ Tegular
2. Dune™ Square Lay-in with Prelude® 15/16" suspension system
3. Dune™ Tegular with Suprafine® 9/16" suspension system
4. Dune™ Tegular with Silhouette® XL® 9/16" suspension system with 1/4" reveal
5. Dune™ Tegular with Interlude® XL® HRC 9/16" suspension system

DUNE™

Square Lay-in & Tegular
fine texture



USDA
CERTIFIED
BIOBASED
PRODUCT
PRODUCT 99%

Declare.

SUSTAIN™
High Performance
Sustainable Ceiling Systems

GREENGUARD
Gold Certified
(details below)

LEED®
WELL™ LBC

UP TO **56%** RECYCLED CONTENT

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/repairable producer resp.
- biobased materials
- recycled content
- sourcing of low materials
- material ingredient reporting
- low emitting/low materials
- lighting quality
- acoustics

Calculate sustainability with Green Genie™
armstrongceilings.com/greengenie

LOCATION DEPENDENT

VISUAL SELECTION

armstrongceilings.com/suspdwgs	Susp. Dwg.	Item No.	Dimensions (Inches)
DUNE™ 15/16" Square Lay-in 	1	1772	24 × 24 × 5/8" <input type="checkbox"/>
		1850	24 × 24 × 5/8" <input type="checkbox"/>
		1773 1773HRC	24 × 48 × 5/8" <input type="checkbox"/>
		1851	24 × 48 × 5/8" <input type="checkbox"/>
		1796	20 × 60 × 3/4" <input type="checkbox"/>
		1798	30 × 30 × 3/4" <input type="checkbox"/>
3/4" or 5/8" Thick – 15/16" Square Lay-in			
Made-to-Order Sizes		Width	Length
		12" - 30"	18" - 72"

4-6
WEEKS
order to ship

PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

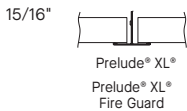
UL Classified Acoustics	Total Acoustics ¹	Fire Performance	Light Reflect	Anti-Mold/Mildew	Sag Resistant	Certified Low VOC Emissions	DURABILITY	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =							Scratch			
0.50 30	N/A	Class A	0.81	*	*	*	*	Std	*	*
0.50 35	N/A	Fire Guard™	0.81	*	*	*	*	Std	*	*
0.50 30	N/A	Class A	0.81	*	*	*	*	Std	*	*
0.50 35	N/A	Fire Guard	0.81	*	*	*	*	Std	*	*
0.50 35	N/A	Class A	0.81	*	Std	*	*	*	*	1-Yr
0.50 35	N/A	Class A	0.81	*	Std	*	*	*	*	1-Yr
N/A N/A	N/A	Class A	0.81	*	Std	*	*	Std	*	1-Yr

MORE ITEMS ▶

Red Numbers are Fire Guard items.

¹ Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.

SUSPENSION SYSTEMS



PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
Class A: ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less. Smoke Developed Index of 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies.
ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Anti-Mold/Mildew
Ceiling tiles with BioBlock® performance resist the growth of mold and mildew on the tile surface.

Acoustical Performance
CAC testing conducted using Prelude® suspension system.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. This standard is the guideline for low emissions in LEED®, WELL Building Standard®, Living Building Challenge® (LBC), CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG UL 2818



Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com/warranty (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton
1772 – 0.94 lbs/SF; 64 SF/ctn
1773 – 0.88 lbs/SF; 64 SF/ctn
1796 – 1.33 lbs/SF; 67 SF/ctn
1798 – 1.14 lbs/SF; 50 SF/ctn
1850 – 1.19 lbs/SF; 48 SF/ctn
1851 – 1.22 lbs/SF; 64 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1772M, 1850M, 1773M, 1851M, 1796M, 1798M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

DUNE™

Square Lay-in & Tegular
fine texture



USDA
CERTIFIED
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PRODUCT
PRODUCT 99%

Declare.

SUSTAIN™
High Performance
Sustainable Ceiling Systems

GREENGUARD
Gold Certified
(details below)

LEED WELL LBC

UP TO 56% RECYCLED CONTENT

Calculate sustainability with Green Genie™
armstrongceilings.com/greengenie

energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recycle/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
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LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

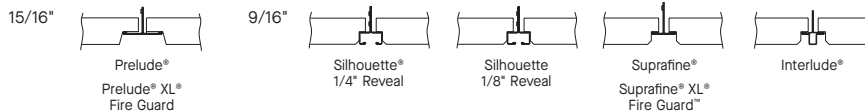
armstrongceilings.com/suspdwgs	Susp. Dwg.	Item No.	Dimensions (Inches)	UL Classified Acoustics	Total Acoustics ¹	Fire Performance	Light Reflect	Anti-Mold/Mildew	Sag Resistant	Certified Low VOC Emissions	DURABILITY	Recycled Content	Recycle Program	30-Yr Warranty
				NRC + CAC =							Scratch			
DUNE™ 15/16" Angled Tegular	12	1774	24 × 24 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
		1774HRC	24 × 24 × 5/8"	0.50	35	N/A	Fire Guard	0.81	*	*	*	Std	*	*
		1853	24 × 24 × 5/8"	0.50	35	N/A	Fire Guard	0.81	*	*	*	Std	*	*
9/16" Beveled Tegular	29	1776	24 × 48 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
		1776HRC	24 × 48 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
		1852	24 × 24 × 5/8"	0.50	35	N/A	Fire Guard	0.81	*	*	*	Std	*	*
3/4" or 5/8" Thick – 15/16" & 9/16" Angled Tegular	44	1777	24 × 48 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
		1777HRC	24 × 48 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
		1777	24 × 48 × 5/8"	0.50	35	N/A	Class A	0.81	*	*	*	Std	*	*
Made-to-Order Sizes			Width	Length	N/A	N/A	N/A	Class A	0.81	*	Std	*	*	1-Yr

4-6 WEEKS order to ship

Red Numbers are Fire Guard items.

¹ Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.

SUSPENSION SYSTEMS



PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
Class A: ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less. Smoke Developed Index of 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A)

ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Anti-Mold/Mildew
Ceiling tiles with BioBlock® performance resist the growth of mold and mildew on the tile surface.

Acoustical Performance
CAC testing conducted using Prelude® suspension system.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. This standard is the guideline for low emissions in LEED®, WELL Building Standard®, Living Building Challenge® (LBC), CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG UL 2818



Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com/warranty

Weight; Square Feet/ Carton
1774, 1774HRC, 1775, 1775HRC – 0.75 lbs/SF; 64 SF/ctn
1776, 1776HRC, 1777, 1777HRC – 0.75 lbs/SF; 64 SF/ctn
1852, 1853 – 1.20 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1775M, 1777M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

MINERAL FIBER – Standard

Project	A20024-Holmes Center
Date	5-19-20

MICHIGAN STATE
UNIVERSITY

Requested Date: 5-19-20
Sample Date: 5-20-20
Building: Holmes Hall Center
Room Location: 1HW3, 3' W. of W. Entry to Sparty's
Requestor: Greg Pierce, IPF
Sample Submittal Date: 5-20-20
Lab Results Received Date: 5-21-20
Lab Analysis Requested: PLM
Lab: Fibertec
Lab Job Number: 43770-1
Number of Samples: 3

Reason for sampling:

I was requested by Greg Pierce, IPF, to sample the drywall ceiling in 1HW3, the associated glue pods and the 12"x12" White, Ceiling Tile, Long Linear Gouges. The materials were sampled prior to Operations and Maintenance work scheduled in the Hallway. The glue pod associated with 12"x12" Ceiling Tile, White, Long Linear Gouges were found to be asbestos containing after Point Count Analysis.

Sample No.	TSI, M, or S	Location Description	Results
001	M/NF, Drywall Ceiling	3' W. of Sparty's W. Entrance, S. of C104	None Detect
002	M/NF, Glue Pod, Ceiling	3' W. of Sparty's W. Entrance, S. of C104	1.0% Chrysotile
003	M/F, 12"x12" White, CT, Linear Long Gouges	3' W. of Sparty's W. Entrance, S. of C104	None Detect



DEPARTMENT OF
**ENVIRONMENTAL
HEALTH & SAFETY**

Office of Radiation,
Chemical, and
Biological Safety

Michigan State University
C-125 Research Complex-
Engineering
East Lansing, MI
48824-1326

517/355-0153
Fax: 517/353-4871

MSU PROJ. NO.
21712.00

PR. MGR. ZHURAVLEV
 ARCH. _____
 MECH. _____
 ELEC. HALSEY
 CIVIL _____
 L.A. _____
 INT. DES. _____
 CONST. REP. _____
 APPR. _____
 DATE 4/3/2024
 SCALE AS SHOWN
 ISSUED _____
 FOR BIDS _____

ELECTRICAL GENERAL NOTES:

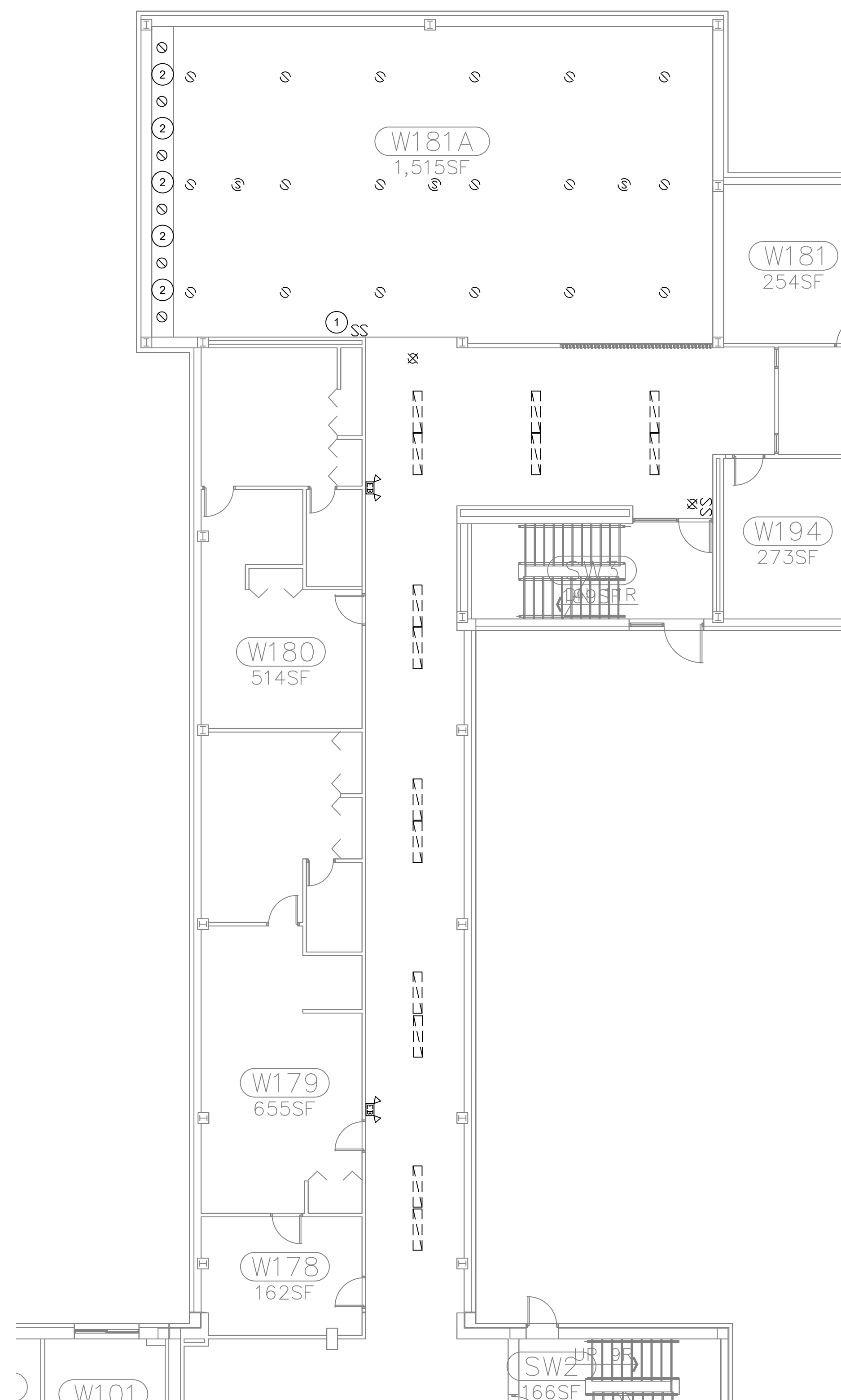
- ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL OTHER APPLICABLE CODES.
- DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- DISCONNECT AND REMOVE LIGHT SWITCHES ASSOCIATED WITH FIXTURES BEING REMOVED. REMOVE WIRING TO SOURCE. LEAVE BOX AND CONDUIT IN PLACE. PROVIDE BLANK COVER PLATE. SWITCHES ASSOCIATED WITH FIXTURES THAT ARE NOT BEING REMOVED SHOULD STAY IN PLACE. FIELD VERIFY. UNLESS NOTED OTHERWISE.
- REMOVE LIGHT FIXTURES SHOWN ON THE PLAN. LEAVE CIRCUIT AND JUNCTION BOX IN PLACE FOR CONNECTION TO NEW LIGHT FIXTURES. SOME OF THE FIXTURES BEING REMOVED ARE CONNECTED TO THE "X-PANEL". REMOVE ALL CONDUIT, BOXES AND WIRING ASSOCIATED WITH THESE FIXTURES. UNLESS NOTED OTHERWISE.
- DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- ONCE THE CEILING IS REMOVED, INSPECT FOR UNUSED CONDUIT AND WIRE AND REMOVE. ALSO INSPECT FOR IMPROPERLY SUPPORTED CONDUIT AND LOW VOLTAGE WIRE. RE-SUPPORT PER CODE.
- DISCONNECT AND REMOVE SPEAKERS LOCATED IN ROOM W181A. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.

ELECTRICAL DEMOLITION PLAN NOTES:

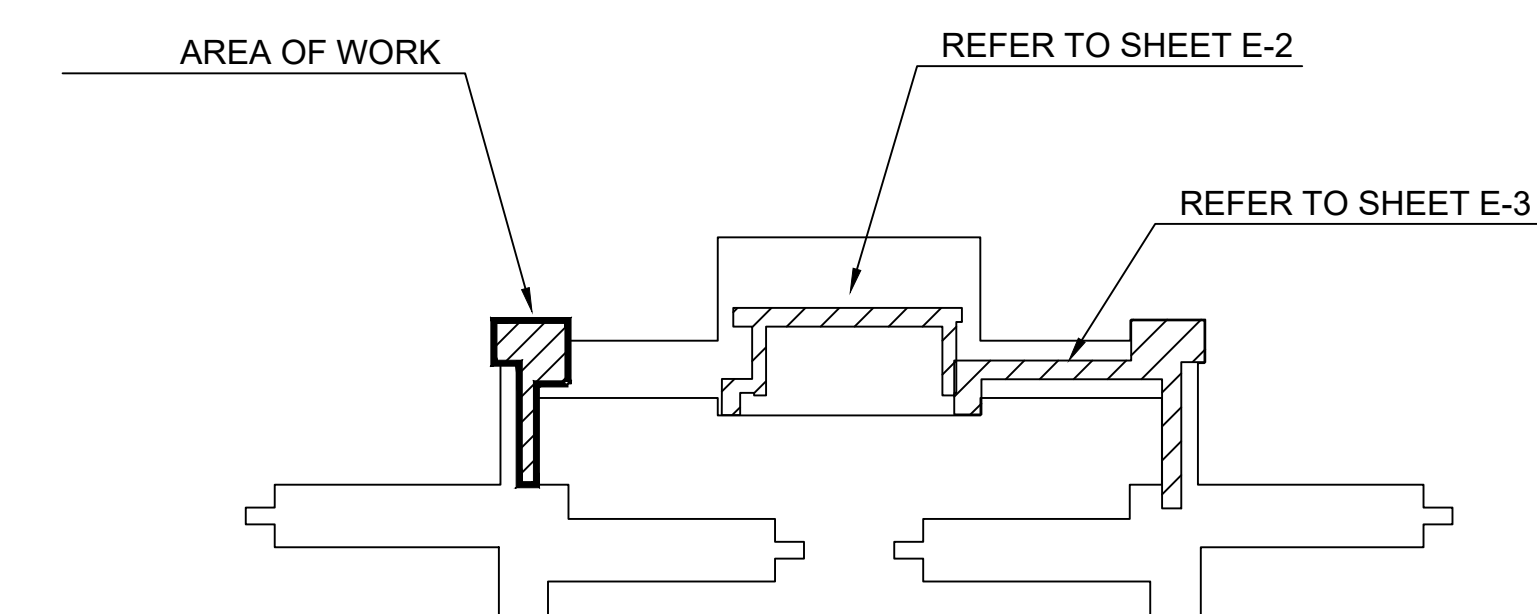
- LEAVE SWITCH ASSOCIATED WITH DOWN LIGHTS IN SOFFIT IN PLACE.
- LIGHTS LOCATED IN SOFFIT SHALL REMAIN.

ELECTRICAL SYMBOLS

FIXTURE TAG	CONTROL ZONE
TYPICAL LIGHT FIXTURE	EMERGENCY FIXTURE
	1' X 4' LIGHT FIXTURE
	2' X 4' NORMAL LIGHT FIXTURE
	2' X 4' EMERGENCY LIGHT FIXTURE
	2' X 2' NORMAL LIGHT FIXTURE
	2' X 2' EMERGENCY LIGHT FIXTURE
	DOWNLIGHT
	EXIT SIGN
	EMERGENCY LIGHTING UNIT
	LIGHT SWITCH
	CAMERA
	SPEAKER
	SMOKE DETECTOR
	EXISTING
	DEVICES SHOWN WITH DASHED LINES ARE INTENDED TO BE DEMOLISHED/REMOVED (TYPICAL FOR ALL DEVICES)



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



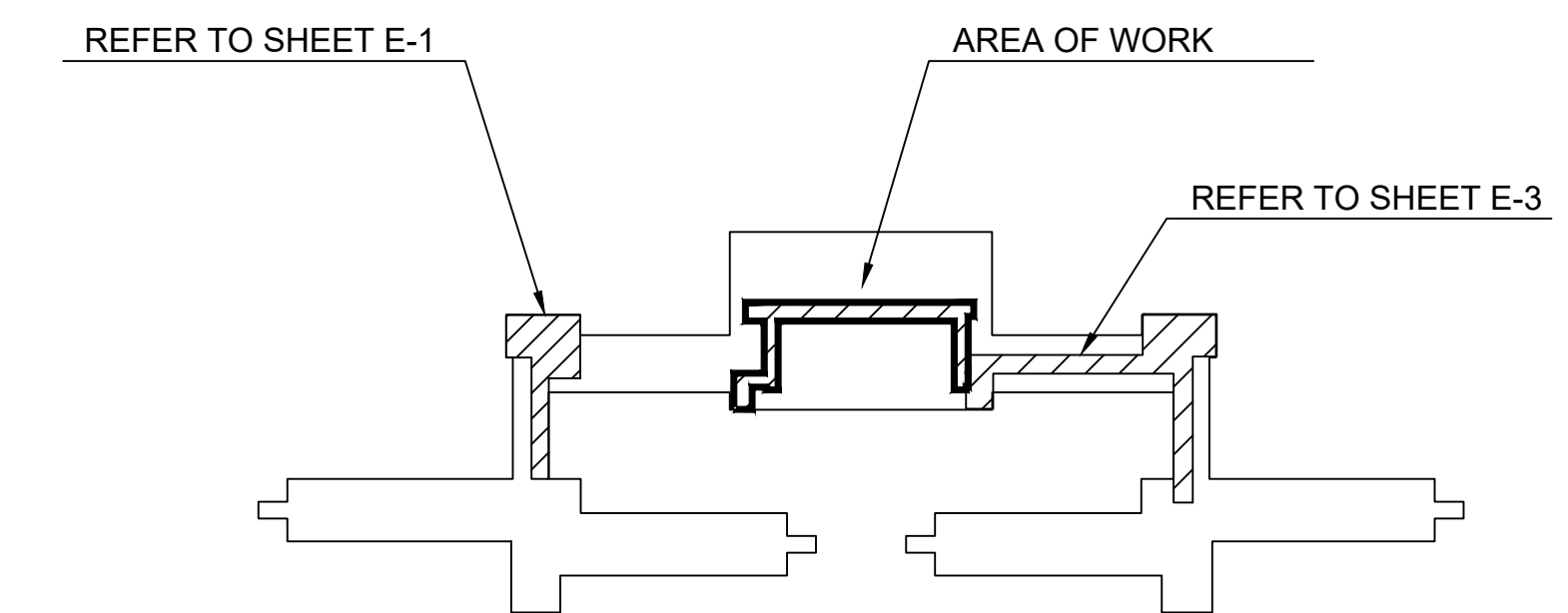
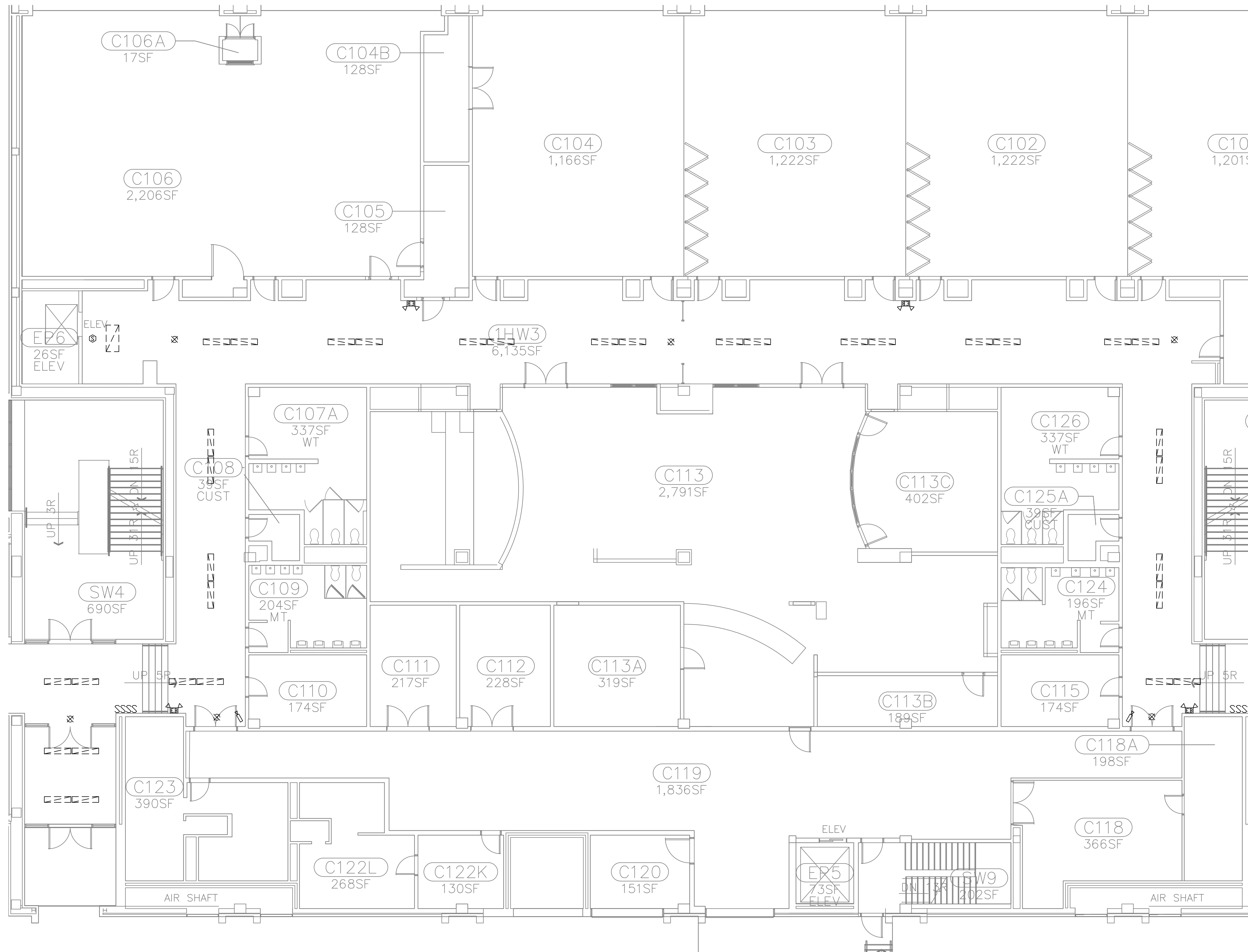
BUILDING KEY PLAN
FOR REFERENCE ONLY

MSU PROJ. NO.
21712.00

PR. MGR. ZHURAVLEV
ARCH. _____
MECH. _____
ELEC. HALSEY
CIVIL _____
L.A. _____
INT. DES. _____
CONST. REP. _____
APPR. _____
DATE 4/3/2024
SCALE AS SHOWN
ISSUED FOR BIDS

ELECTRICAL GENERAL NOTES:

1. ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL OTHER APPLICABLE CODES.
2. DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
3. DISCONNECT AND REMOVE LIGHT SWITCHES ASSOCIATED WITH FIXTURES BEING REMOVED. REMOVE WIRING TO SOURCE. LEAVE BOX AND CONDUIT IN PLACE. PROVIDE BLANK COVER PLATE. SWITCHES ASSOCIATED WITH FIXTURES THAT ARE NOT BEING REMOVED SHOULD STAY IN PLACE. FIELD VERIFY. UNLESS NOTED OTHERWISE.
4. REMOVE LIGHT FIXTURES SHOWN ON THE PLAN. LEAVE CIRCUIT AND JUNCTION BOX IN PLACE FOR CONNECTION TO NEW LIGHT FIXTURES. SOME OF THE FIXTURES BEING REMOVED ARE CONNECTED TO THE "X-PANEL". REMOVE ALL CONDUIT, BOXES AND WIRING ASSOCIATED WITH THESE FIXTURES. UNLESS NOTED OTHERWISE.
5. DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
6. ONCE THE CEILING IS REMOVED, INSPECT FOR UNUSED CONDUIT AND WIRE AND REMOVE. ALSO INSPECT FOR IMPROPERLY SUPPORTED CONDUIT AND LOW VOLTAGE WIRE. RE-SUPPORT PER CODE.



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



BUILDING KEY PLAN
FOR REFERENCE ONLY



MSU PROJ. NO.
21712.00

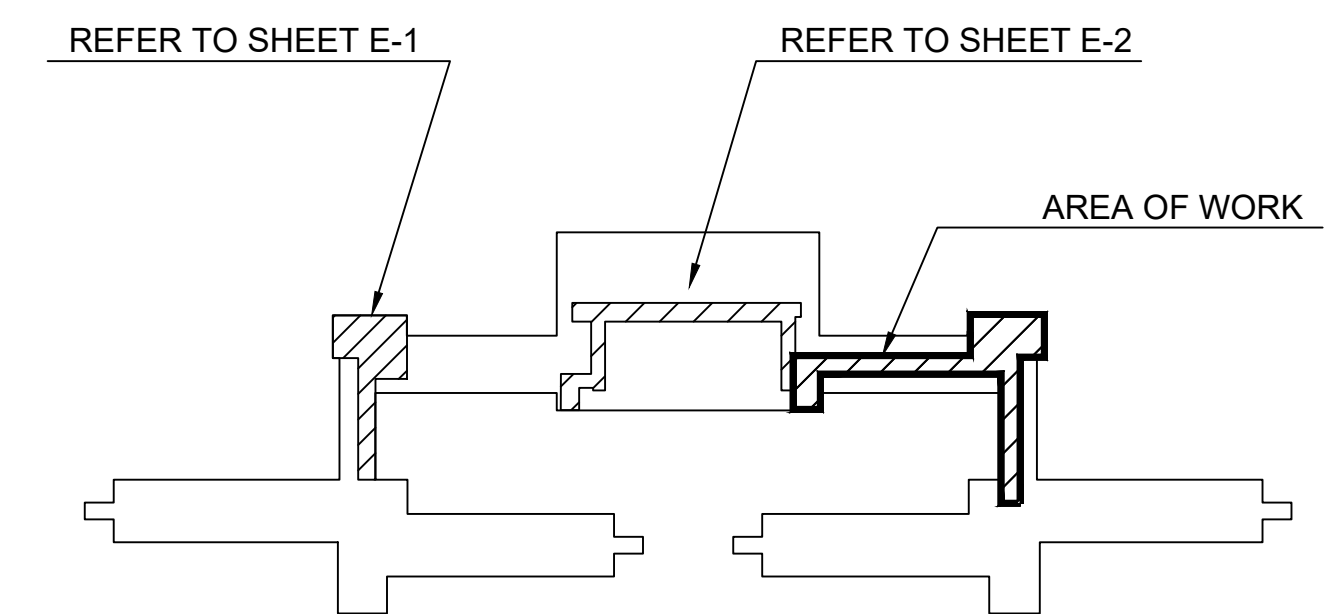
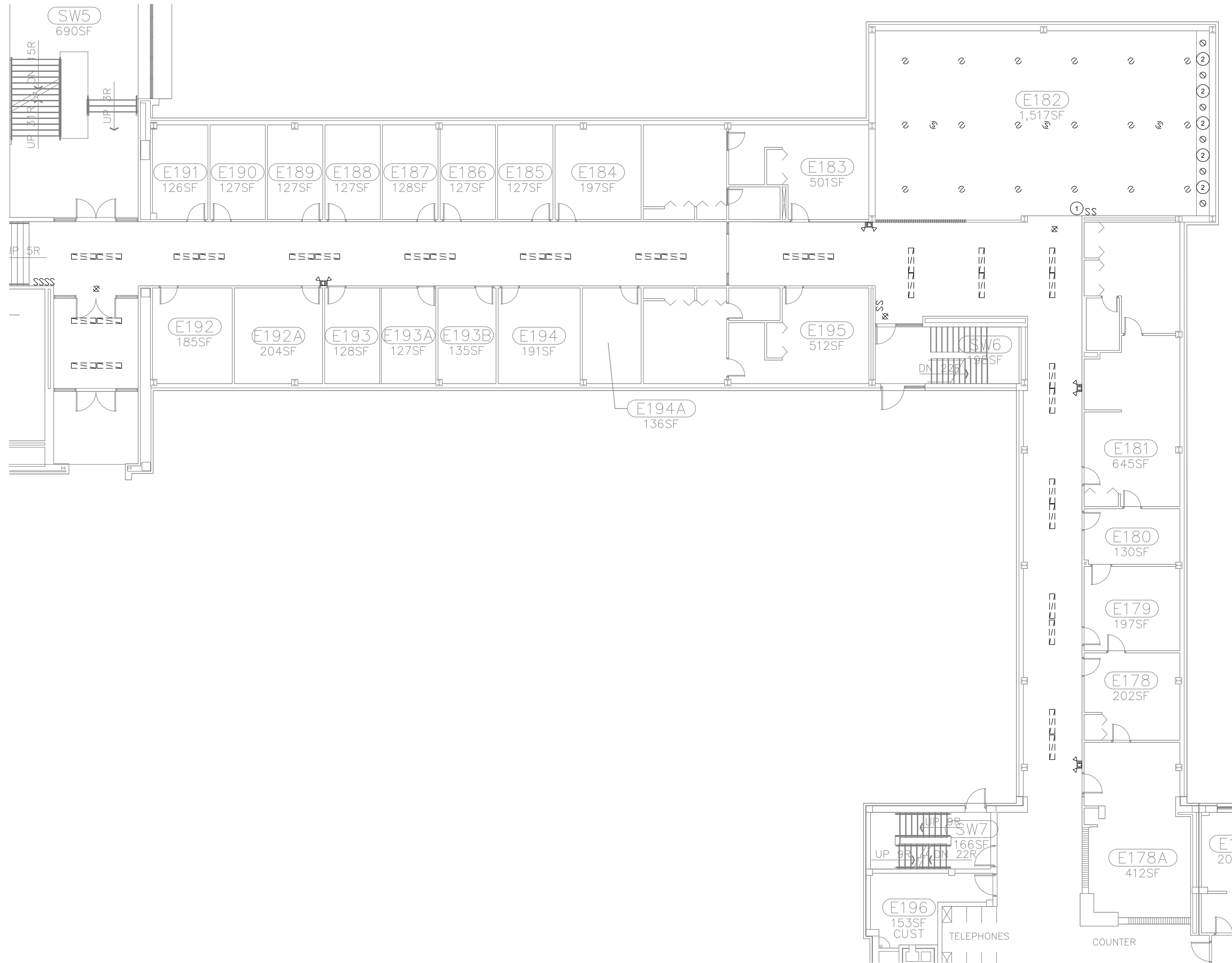
PR. MGR.	ZHURAVLEV
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L.A.	
INT. DES.	
CONST. REP.	
APPR.	
DATE	4/3/2024
SCALE	AS SHOWN
ISSUED FOR BIDS	

ELECTRICAL GENERAL NOTES:

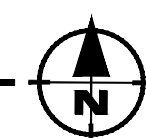
1. ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL OTHER APPLICABLE CODES.
2. DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
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5. DISCONNECT AND REMOVE ALL EMERGENCY LIGHTING UNITS SHOWN ON THE PLAN. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
6. ONCE THE CEILING IS REMOVED, INSPECT FOR UNUSED CONDUIT AND WIRE AND REMOVE. ALSO INSPECT FOR IMPROPERLY SUPPORTED CONDUIT AND LOW VOLTAGE WIRE. RE-SUPPORT PER CODE.
7. DISCONNECT AND REMOVE SPEAKERS LOCATED IN ROOM E182. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.

ELECTRICAL DEMOLITION PLAN NOTES:

1. LEAVE SWITCH ASSOCIATED WITH DOWN LIGHTS IN SOFFIT IN PLACE.
2. LIGHTS LOCATED IN SOFFIT SHALL REMAIN.



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

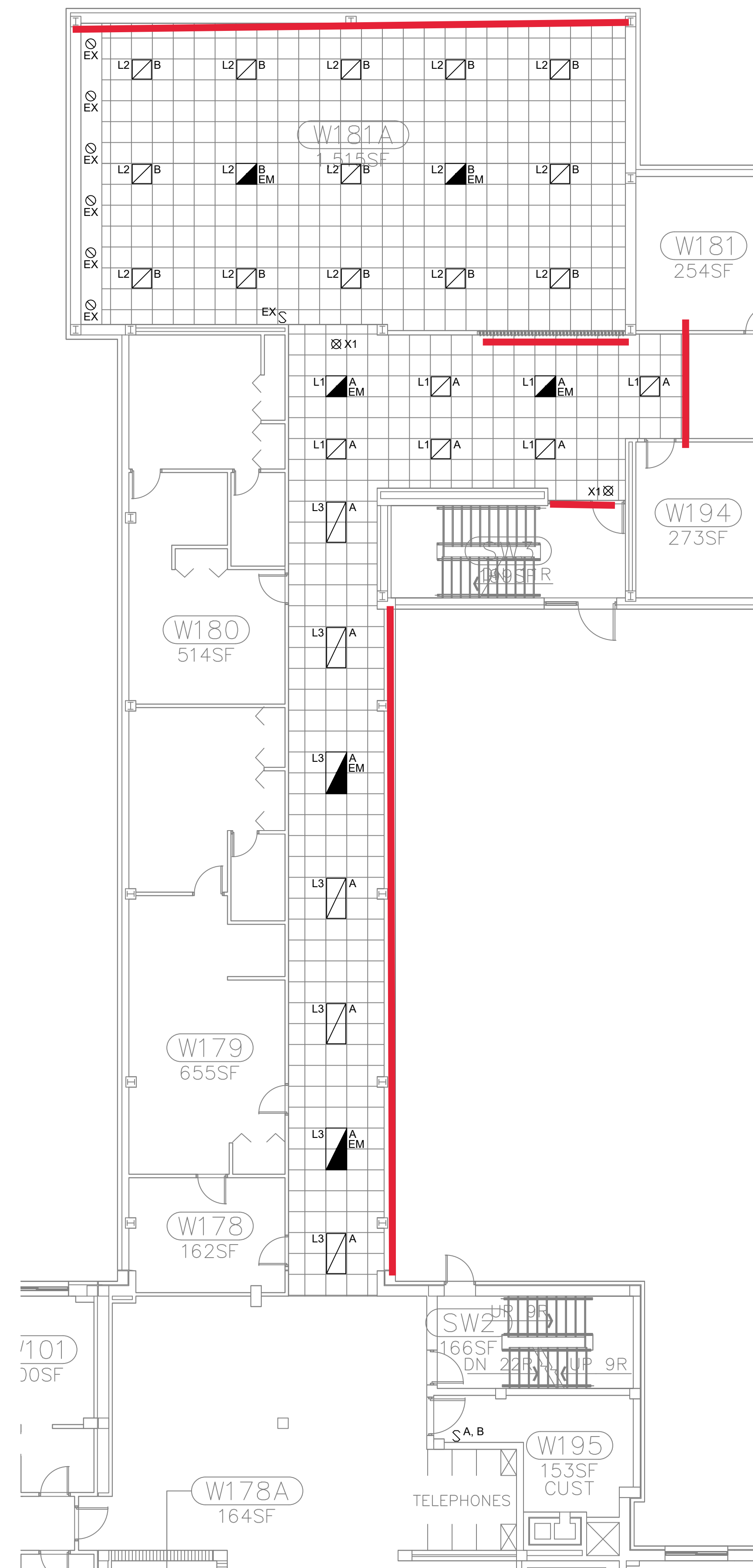


BUILDING KEY PLAN
FOR REFERENCE ONLY



LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER	PART NUMBER	DESCRIPTION
L1	LITHONIA	CPX 2X2 2000LM 80CRI 40K SWL MIN1 ZT MVOLT NLTAIR2 APDT	2 X 2 LED FLAT PANEL WITH ONBOARD WIRELESS CONTROLS
L1EM	LITHONIA	CPX 2X2 2000LM 80CRI 40K SWL MIN1 ZT MVOLT E10WLCPLNLTAIR2 APDT	SAME AS L1 EXCEPT WITH EMERGENCY DRIVER AND ONBOARD WIRELESS CONTROLS
L2	LITHONIA	CPX 2X2 3200LM 80CRI 40K SWL MIN1 ZT MVOLT NLTAIR2 APDT	2 X 2 LED FLAT PANEL WITH ONBOARD WIRELESS CONTROLS
L2EM	LITHONIA	CPX 2X2 3200LM 80CRI 40K SWL MIN1 ZT MVOLT E10WLCPLNLTAIR2 APDT	SAME AS L2 EXCEPT WITH EMERGENCY DRIVER AND ONBOARD WIRELESS CONTROLS
L3	LITHONIA	CPX 2X4 3000LM 80CRI 40K SWL MIN1 ZT MVOLT NLTAIR2 APDT	2 X 4 LED FLAT PANEL WITH ONBOARD WIRELESS CONTROLS
L3EM	LITHONIA	CPX 2X4 3000LM 80CRI 40K SWL MIN1 ZT MVOLT E10WLCPLNLTAIR2 APDT	SAME AS L3 EXCEPT WITH EMERGENCY DRIVER AND ONBOARD WIRELESS CONTROLS
X1	LITHONIA	LE S 1 G ELN SD	EXIT SIGN WITH SINGLE FACE, BLACK HOUSING, ALUMINUM FACE, GREEN LETTERS AND BATTERY BACK-UP



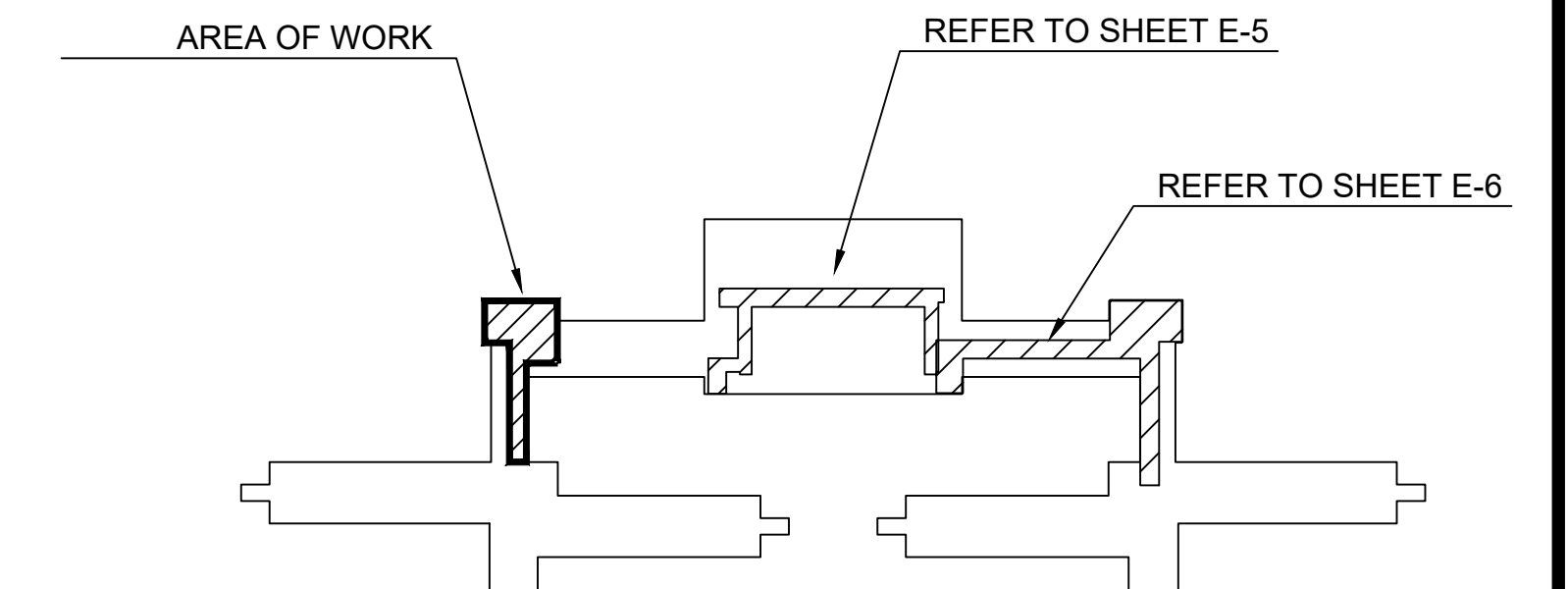
ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL APPLICABLE CODES.
- UPDATE PANELBOARD CIRCUIT DIRECTORIES TO REFLECT ANY CHANGES MADE.
- ALL NEW COVER PLATES TO BE STAINLESS STEEL.
- EMERGENCY LIGHT FIXTURES ARE NOT NIGHT LIGHTS. THEY ARE INTENDED TO BE CONTROLLED IN THE SAME FASHION AS THE SURROUNDING FIXTURES.
- PROVIDE AN UNSWITCHED HOT WIRE TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- ROUTE MC CABLE FROM THE ORIGINAL FIXTURE JUNCTION BOXES TO THE NEW FIXTURES IMMEDIATELY BELOW. PROVIDE EXTENSION RINGS AND NEW COVER PLATES AS REQUIRED FOR EXISTING JUNCTION BOXES. LONGER LENGTHS OF MC CABLE WILL BE PERMITTED TO ROUTE MC CABLE TO EXIT SIGNS AND OTHER FIXTURES WHERE "X-PANEL" J-BOXES AND CIRCUITS WERE REMOVED. KEEP MC CABLE LENGTHS TO A MINIMUM. PROVIDE CODE REQUIRED SUPPORT FOR MC CABLE.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

- ALL NEW FIXTURES ARE PROVIDED WITH ONBOARD OCCUPANCY SENSORS AND PHOTOCELLS.
- ZONES ARE INDICATED BY AN UPPERCASE LETTER (A, B, C, D, ETC.) PLACED NEXT TO THE FIXTURE ON THE PLAN. ALL FIXTURES WITHIN A ZONE SHALL BE CONTROLLED TOGETHER.
- PROGRAM FIXTURES TO OPERATE AT 95% WHEN OCCUPANCY IS DETECTED.
- AFTER A PERIOD OF 20 MINUTES WITH NO OCCUPANCY DETECTION IN ZONE A, LIGHTS SHOULD DIM TO 20%.
- AFTER A PERIOD OF 20 MINUTES WITH NO OCCUPANCY DETECTION IN ZONE B, LIGHTS SHOULD DIM TO 10%.
- VESTIBULE FIXTURE SHOULD DIM DURING DAYLIGHT HOURS AND OPERATE AT 95% AT NIGHT.
- PROGRAM FIXTURES TO AUTOMATICALLY DIM WITHIN DAYLIGHT ZONES PER CODE.
- OVERRIDE SWITCHES ARE LOCATED IN CUSTODIAL CLOSET W195.
- VERIFY UPPER AND LOWER LIGHT LEVELS WITH MSU SLE PROJECT MANAGER.



BUILDING KEY PLAN
FOR REFERENCE ONLY

MSU PROJ. NO.
21712.00

PR. MGR. ZHURAVLEV
ARCH. _____
MECH. _____
ELEC. HALSEY
CIVIL _____
L.A. _____
INT. DES. _____
CONST. REP. _____
APPR. _____
DATE 4/3/2024
SCALE AS SHOWN
ISSUED FOR BIDS

MSU PROJ. NO.
21712.00

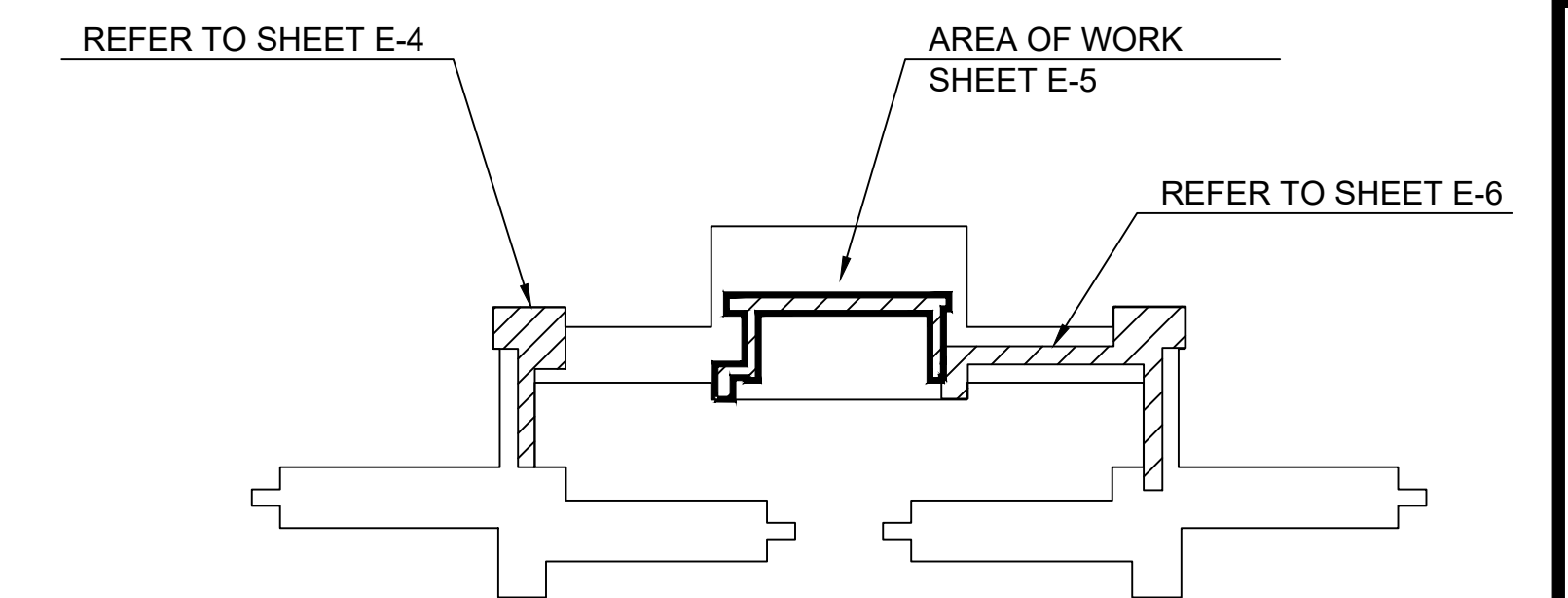
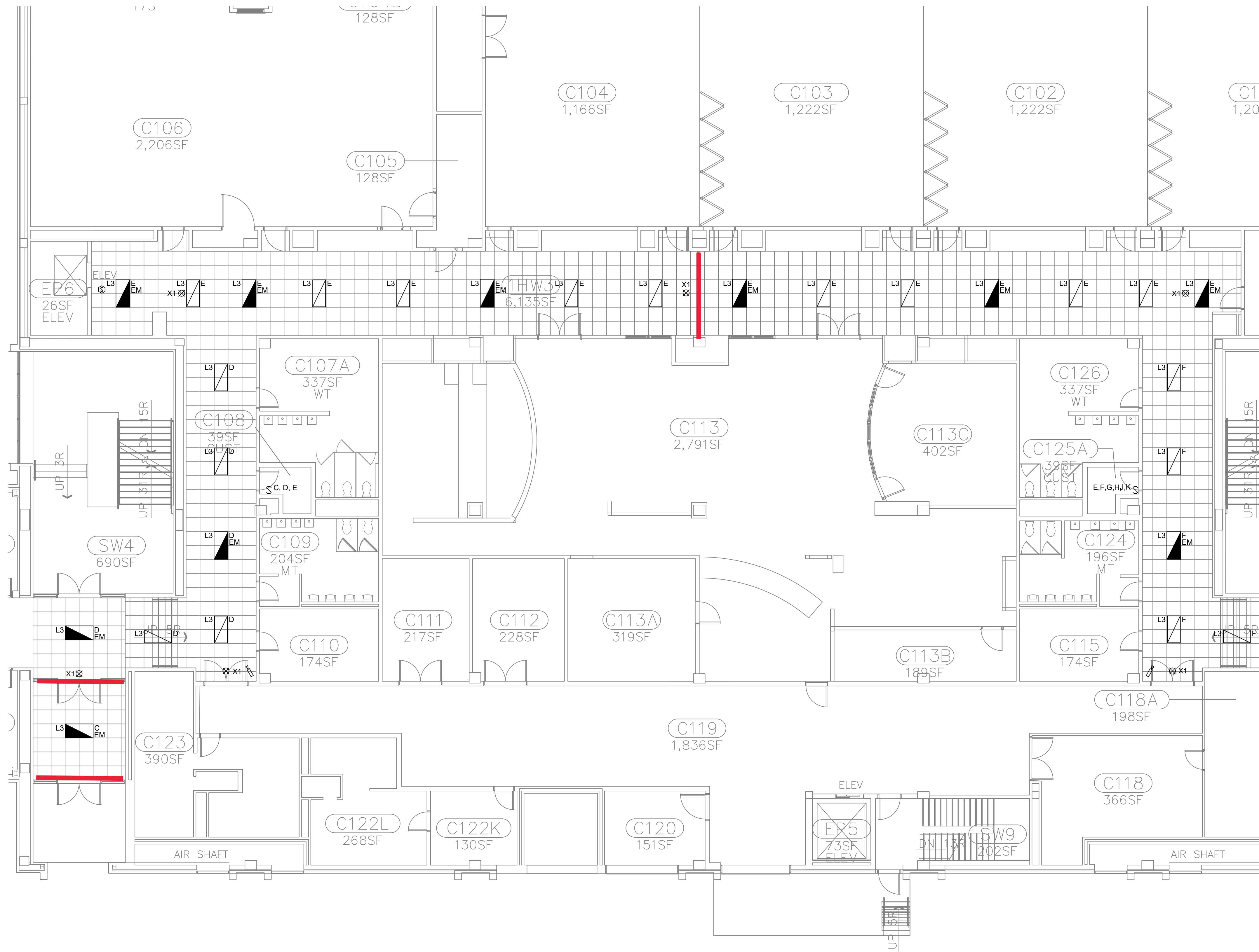
PR. MGR. ZHURAVLEV
ARCH. _____
MECH. _____
ELEC. HALSEY
CIVIL _____
L.A. _____
INT. DES. _____
CONST. REP. _____
APPR. _____
DATE 4/3/2024
SCALE AS SHOWN
ISSUED FOR BIDS

ELECTRICAL GENERAL NOTES:

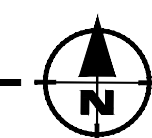
1. ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL APPLICABLE CODES.
2. UPDATE PANELBOARD CIRCUIT DIRECTORIES TO REFLECT ANY CHANGES MADE.
3. ALL NEW COVER PLATES TO BE STAINLESS STEEL.
4. EMERGENCY LIGHT FIXTURES ARE NOT NIGHT LIGHTS. THEY ARE INTENDED TO BE CONTROLLED IN THE SAME FASHION AS THE SURROUNDING FIXTURES.
5. PROVIDE AN UNSWITCHED HOT WIRE TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
6. ROUTE MC CABLE FROM THE ORIGINAL FIXTURE JUNCTION BOXES TO THE NEW FIXTURES IMMEDIATELY BELOW. PROVIDE EXTENSION RINGS AND NEW COVER PLATES AS REQUIRED FOR EXISTING JUNCTION BOXES. LONGER LENGTHS OF MC CABLE WILL BE PERMITTED TO ROUTE MC CABLE TO EXIT SIGNS AND OTHER FIXTURES WHERE "X-PANEL" J-BOXES AND CIRCUITS WERE REMOVED. KEEP MC CABLE LENGTHS TO A MINIMUM. PROVIDE CODE REQUIRED SUPPORT FOR MC CABLE.
7. RE-INSTALL SECURITY CAMERAS IN SAME LOCATION. COORDINATE WITH MSU SECURITY SERVICES.
8. RE-INSTALL SMOKE DETECTOR IN SAME LOCATION.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

1. ALL NEW FIXTURES ARE PROVIDED WITH ONBOARD OCCUPANCY SENSORS AND PHOTOCELLS.
2. ZONES ARE INDICATED BY AN UPPERCASE LETTER (A, B, C, D, ETC.) PLACED NEXT TO THE FIXTURE ON THE PLAN. ALL FIXTURES WITHIN A ZONE SHALL BE CONTROLLED TOGETHER.
3. PROGRAM FIXTURES TO OPERATE AT 95% WHEN OCCUPANCY IS DETECTED.
4. AFTER A PERIOD OF 20 MINUTES WITH NO OCCUPANCY DETECTION LIGHTS SHOULD DIM TO 20%.
5. VESTIBULE FIXTURE SHOULD DIM DURING DAYLIGHT HOURS AND OPERATE AT 95% AT NIGHT.
6. PROGRAM FIXTURES TO AUTOMATICALLY DIM WITHIN DAYLIGHT ZONES PER CODE.
7. OVERRIDE SWITCHES ARE LOCATED IN CUSTODIAL CLOSETS E196 AND C125A.
8. VERIFY UPPER AND LOWER LIGHT LEVELS WITH MSU SLE PROJECT MANAGER.



ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



BUILDING KEY PLAN
FOR REFERENCE ONLY



MSU PROJ. NO.
21712.00

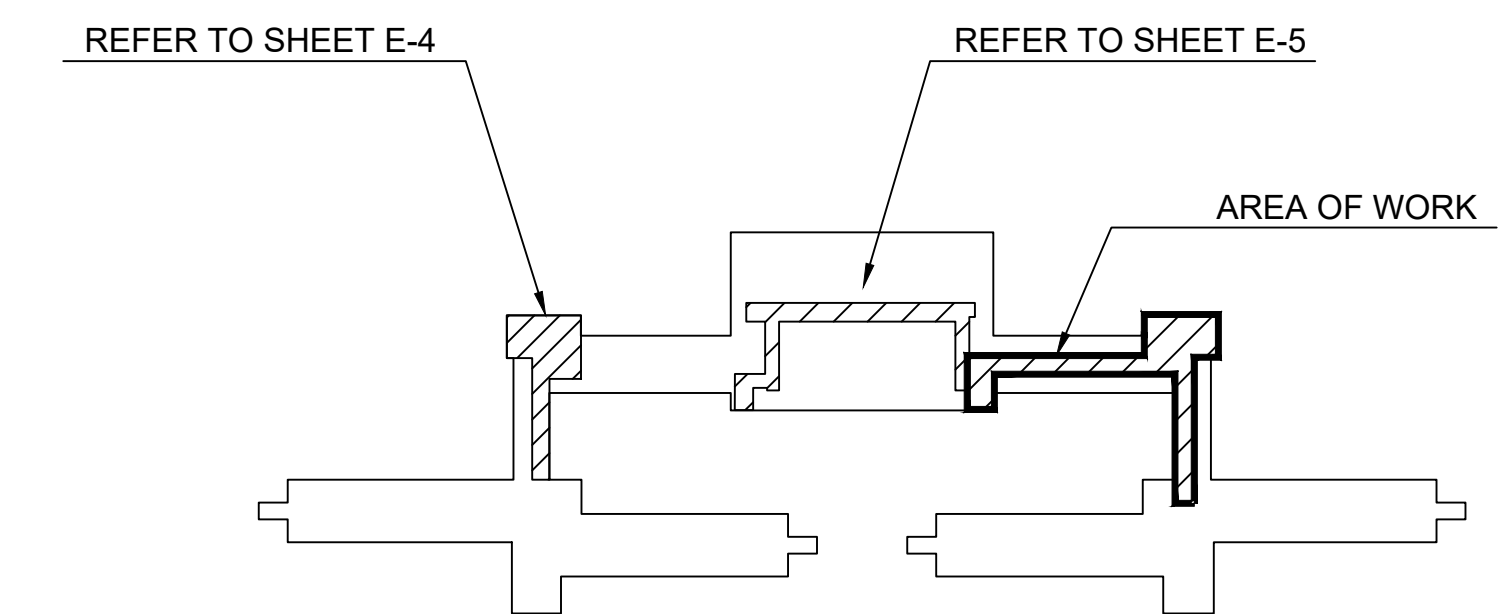
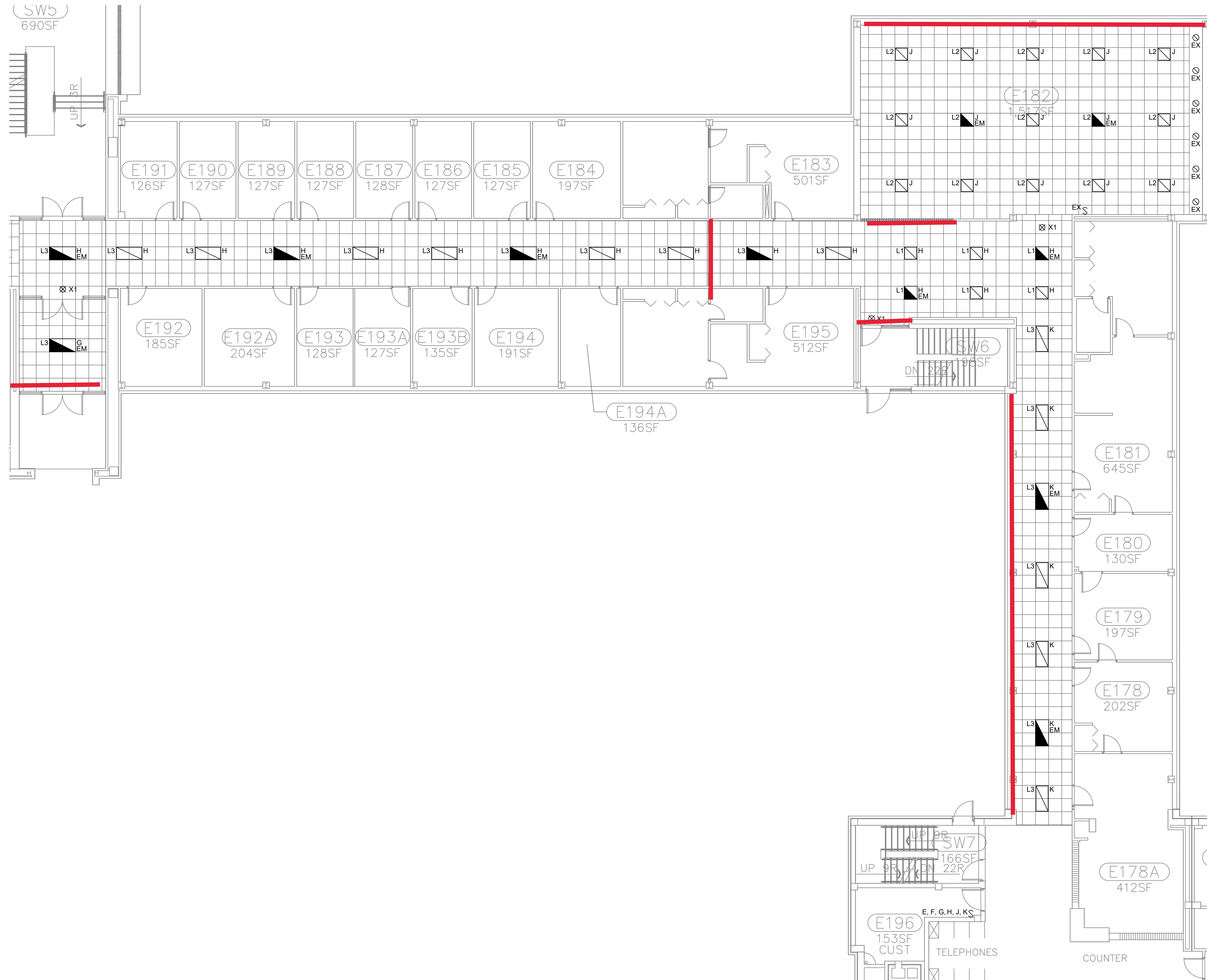
PR. MGR. ZHURAVLEV
ARCH. _____
MECH. _____
ELEC. HALSEY
CIVIL _____
L.A. _____
INT. DES. _____
CONST. REP. _____
APPR. _____
DATE 4/3/2024
SCALE AS SHOWN
ISSUED FOR BIDS

ELECTRICAL GENERAL NOTES:

1. ELECTRICIAN IS RESPONSIBLE FOR COMPLIANCE WITH MSU TECHNICAL STANDARDS AND ALL APPLICABLE CODES.
2. UPDATE PANELBOARD CIRCUIT DIRECTORIES TO REFLECT ANY CHANGES MADE.
3. ALL NEW COVERPLATES TO BE STAINLESS STEEL.
4. EMERGENCY LIGHT FIXTURES ARE NOT NIGHT LIGHTS. THEY ARE INTENDED TO BE CONTROLLED IN THE SAME FASHION AS THE SURROUNDING FIXTURES.
5. PROVIDE AN UNSWITCHED HOT WIRE TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
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LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

1. ALL NEW FIXTURES ARE PROVIDED WITH ONBOARD OCCUPANCY SENSORS AND PHOTOCELLS.
2. ZONES ARE INDICATED BY AN UPPERCASE LETTER (A, B, C, D ETC.) PLACED NEXT TO THE FIXTURE ON THE PLAN. ALL FIXTURES WITHIN A ZONE SHALL BE CONTROLLED TOGETHER.
3. PROGRAM FIXTURES TO OPERATE AT 95% WHEN OCCUPANCY IS DETECTED.
4. AFTER A PERIOD OF 20 MINUTES WITH NO OCCUPANCY, LIGHTS SHOULD DIM TO 20%.
5. VESTIBULE FIXTURE SHOULD DIM DURING DAYLIGHT HOURS AND OPERATE AT 95% AT NIGHT.
6. PROGRAM FIXTURES TO AUTOMATICALLY DIM WITHIN DAYLIGHT ZONES PER CODE.
7. OVERRIDE SWITCHES ARE LOCATED IN CUSTODIAL CLOSET W195.
8. VERIFY UPPER AND LOWER LIGHT LEVELS WITH MSU SLE PROJECT MANAGER.

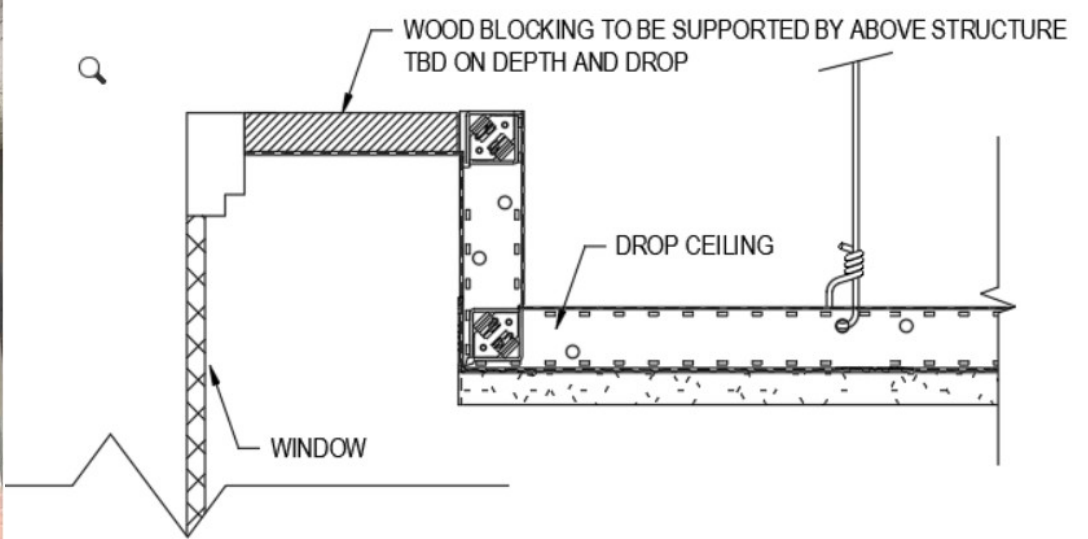


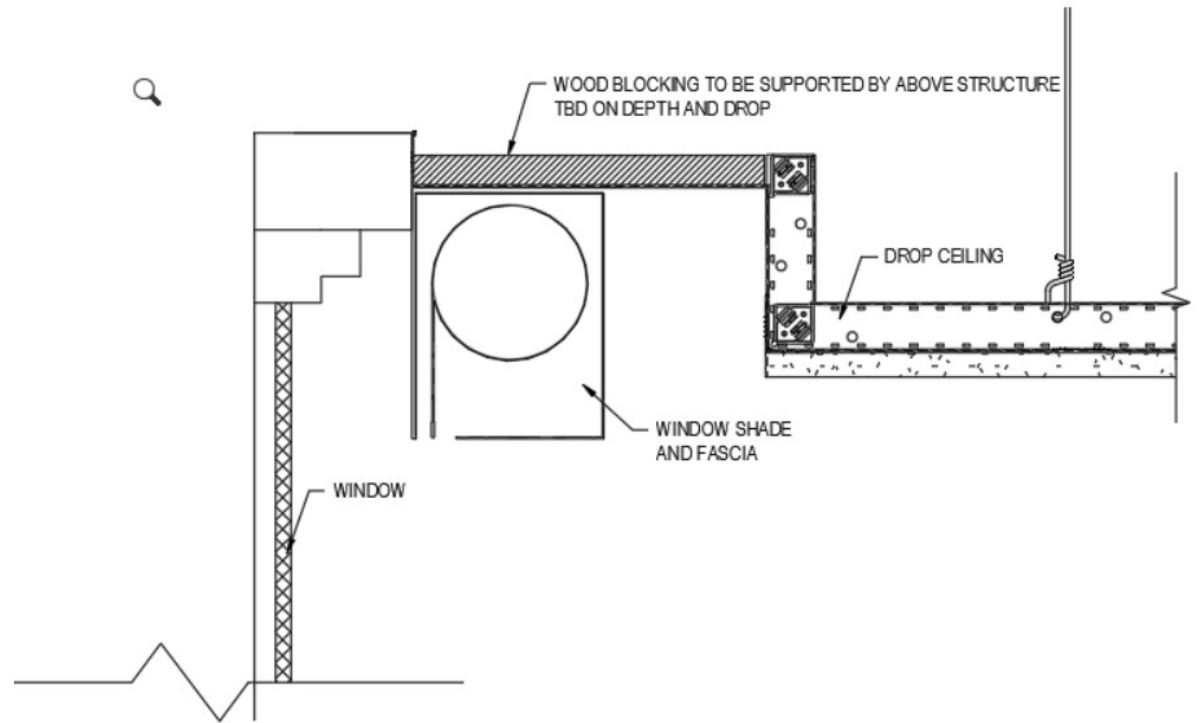
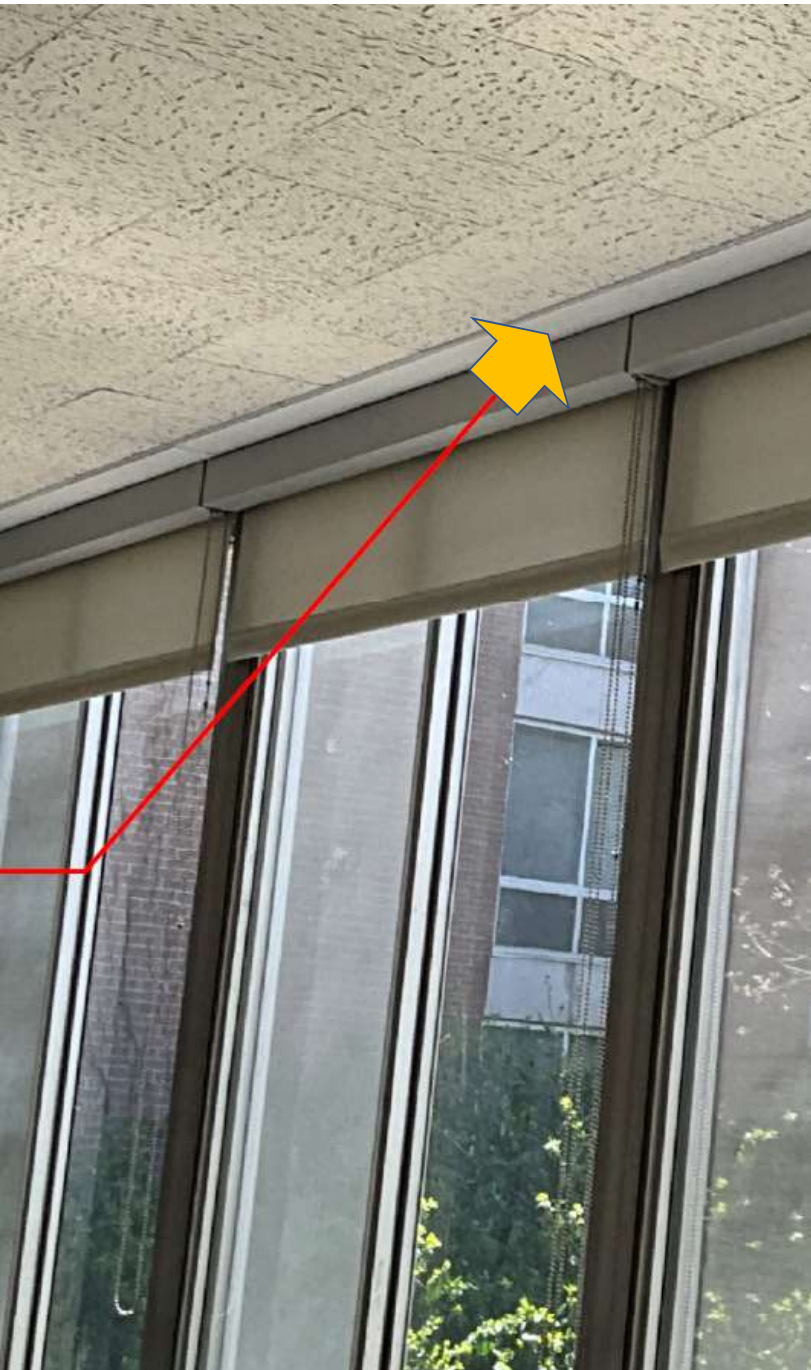
ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

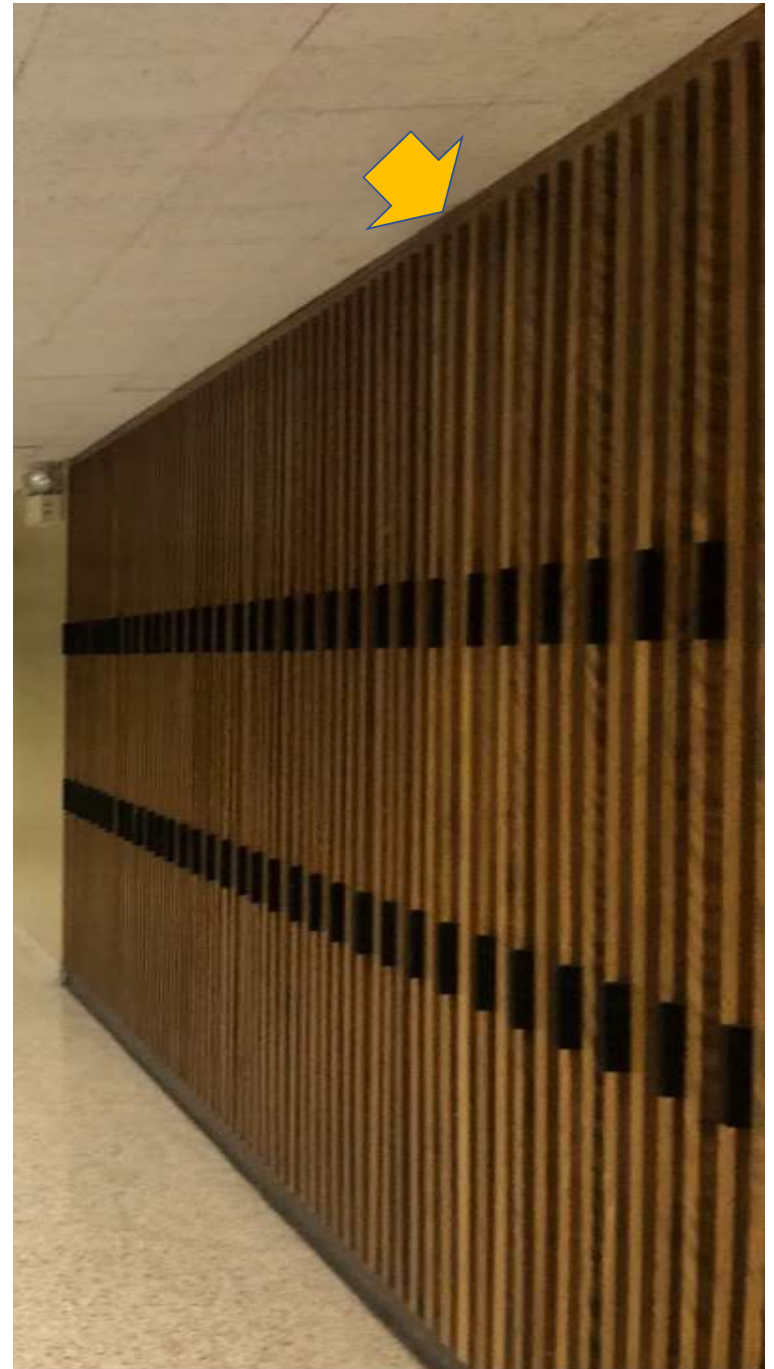
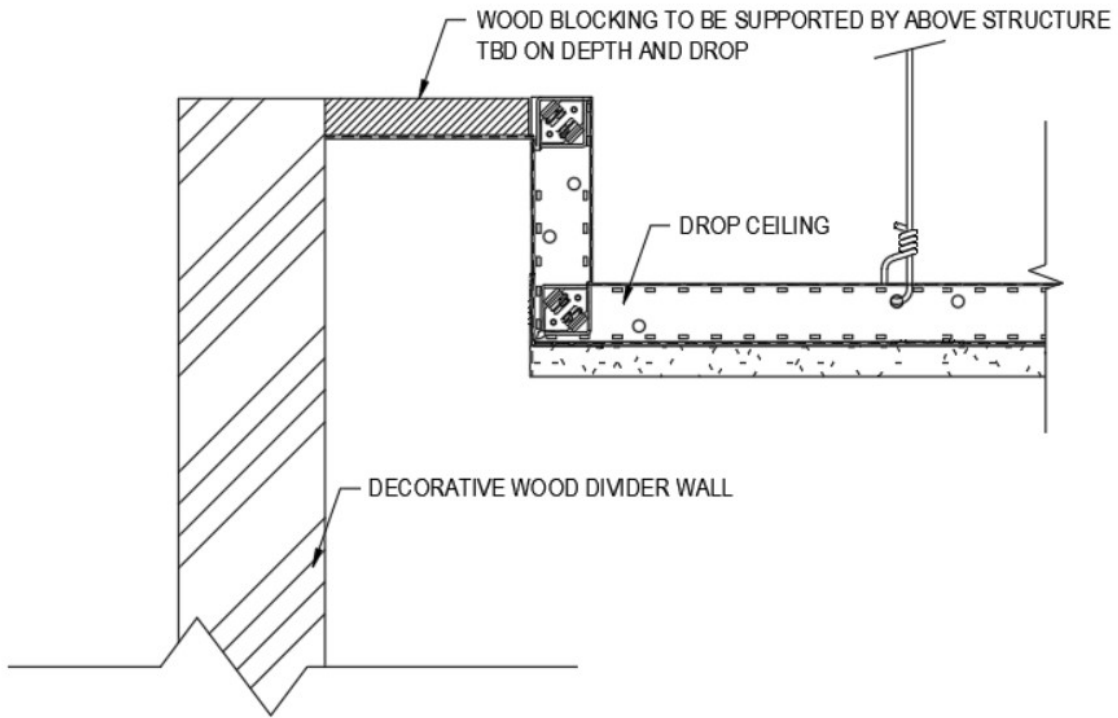


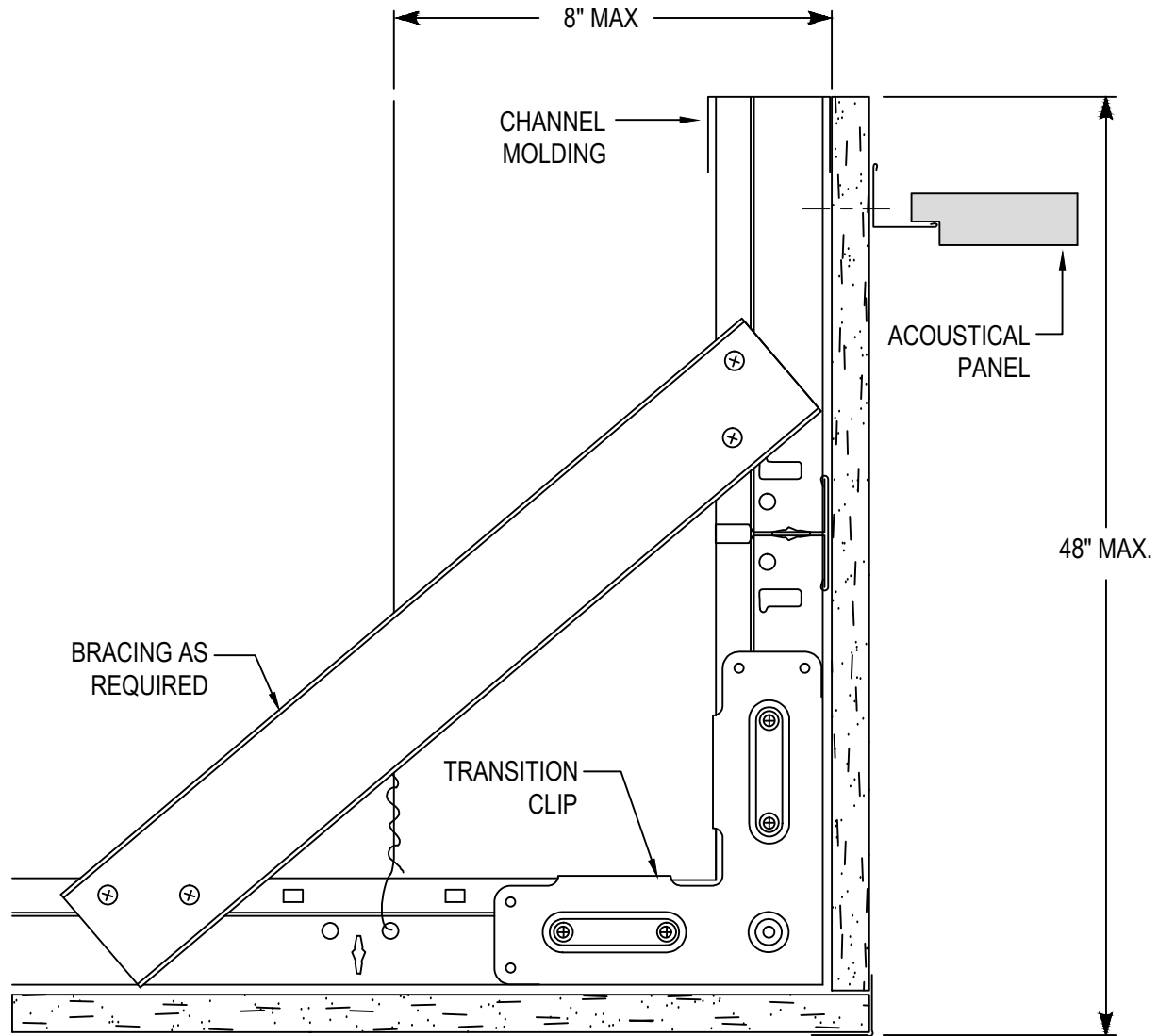
BUILDING KEY PLAN
FOR REFERENCE ONLY







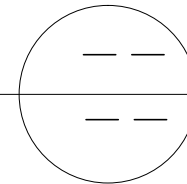




Section thru Soffit

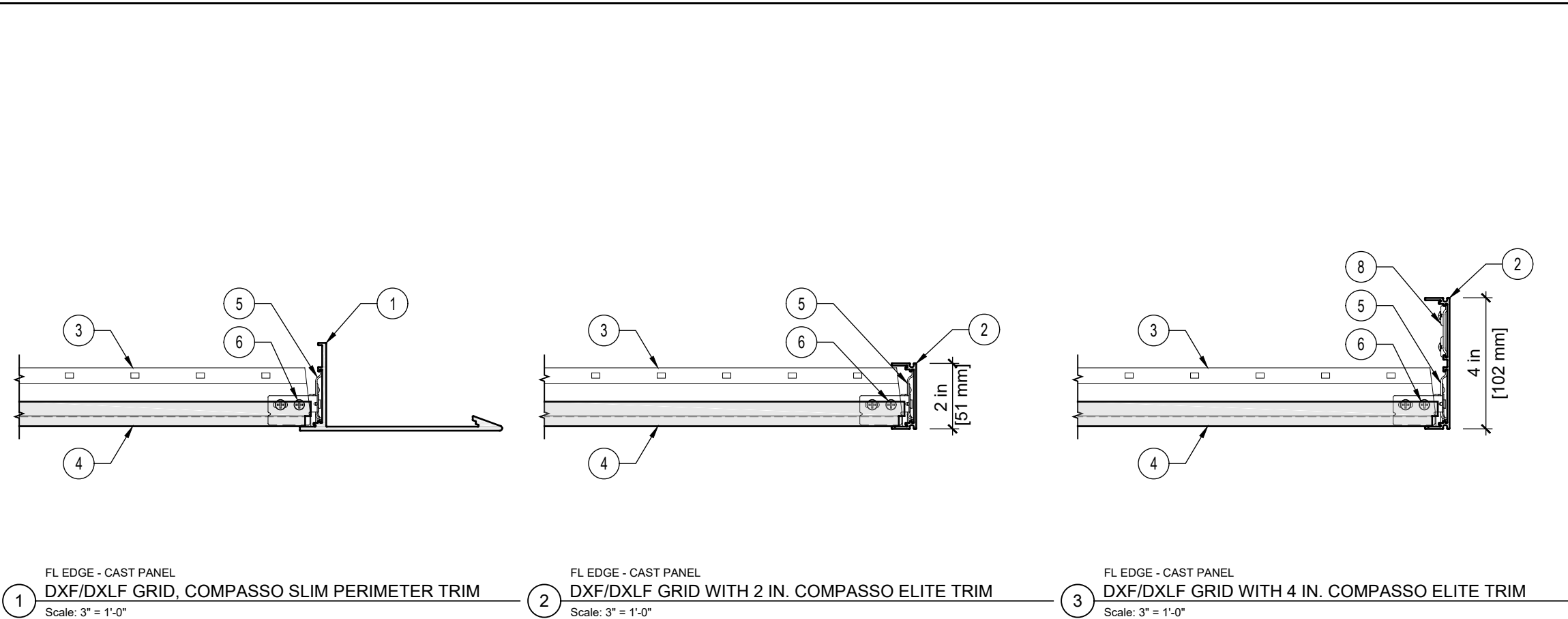
SCALE: NTS

DATE:



UNITED STATES GYPSUM COMPANY

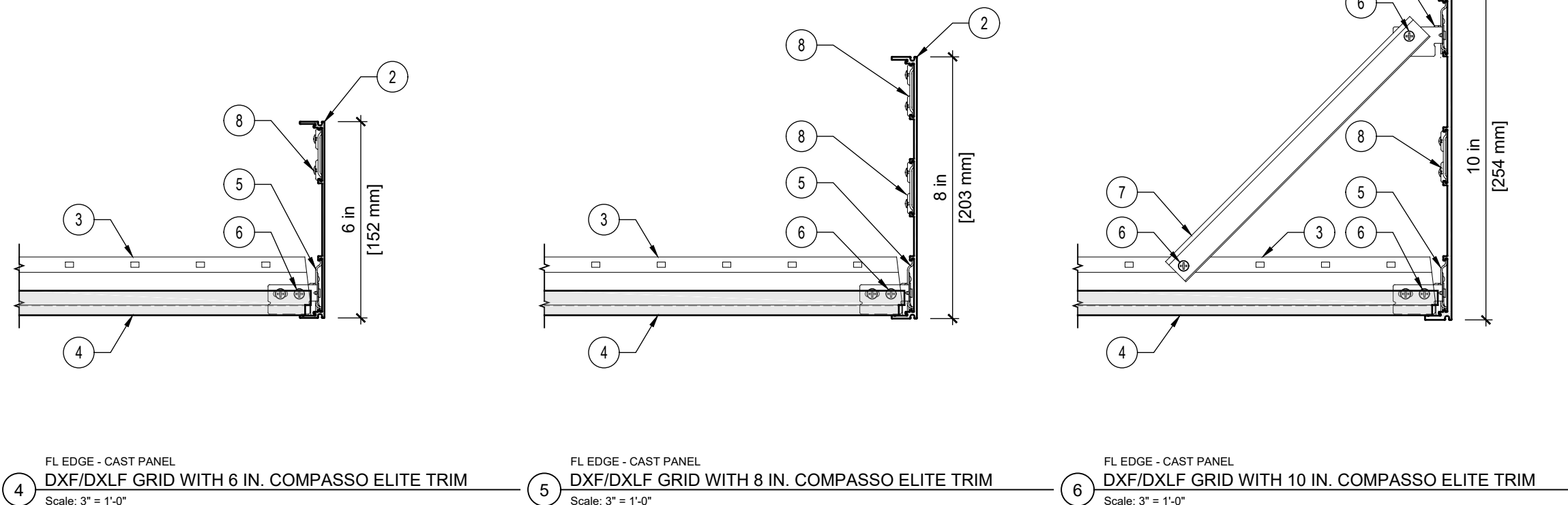
This Dry Wall Suspension System DETAIL must not be used without a complete evaluation by the owner's design professional to verify the suitability of the design for a given structure.



1 FL EDGE - CAST PANEL
DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
Scale: 3" = 1'-0"

2 FL EDGE - CAST PANEL
DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

3 FL EDGE - CAST PANEL
DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



4 FL EDGE - CAST PANEL
DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

5 FL EDGE - CAST PANEL
DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

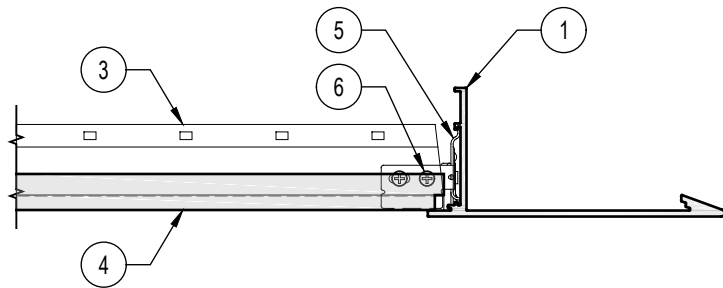
6 FL EDGE - CAST PANEL
DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

KEYNOTES - COMPASSO TRIM
TONICAS - COMPASSO MARCO PERIMETRAL
DISCOURS -COMPASSO GARNITURE DE PLAFOND

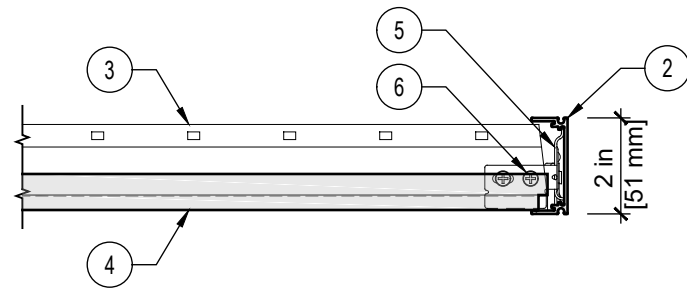
1	COMPASSO SLIM PERIMETER TRIM. COMPASSO SLIM MARCO PERIMETRAL. MOULURE DE PÉRIMÈTRE COMPASSO SLIM.
2	COMPASSO ELITE TRIM. COMPASSO ELITE BORDE. MOULURE COMPASSO ELITE.
3	MAIN OR CROSS TEE, FIELD CUT TO LENGTH. TE PRINCIPAL O SECUNDARIA, RECORTADA A LA MEDIDA. TÉE PRINCIPAL OU TÉE SECONDAIRE, COUPÉ EN CHANTIER.
4	CEILING PANEL. PANEL DE TECHO. PANNEAU POUR PLAFOND.
5	COMPASSO ELITE ATTACHMENT CLIP. ELEMENTO DE AFIJACION PARA COMPASSO ELITE. AGRAFE DE FIXACION POUR COMPASSO ELITE.
6	SECURE WITH PAN HEAD SCREWS. ASEGURE CON TORNILLOS PARA METAL. FIXER AVEC DES VIS À TÊTE CYLINDRIQUE.
7	PROVIDE BRACING WITH M9 CLIP AT 10" COMPASSO TRIM. PROVEER APOYO CON EL ENCAJE M9 CUANDO SE UTILIZA COMPASSO BORDE DE 10 PULGADAS DE ALTO O MAS. PRÉVOIR RENFORCEMENT AVEC MOULURE M9 AU MOULURE COMPASSO 10".
8	ADD HORIZONTAL SPLICE PLATES AT ALL VERTICAL JOINTS (1 PIECE FOR 2" TRIM, 2 PIECES FOR 4" AND 6" TRIM, 3 PIECES FOR 8" AND 10" TRIM, TYPICAL). AGREGAR PLACAS DE ENCAJE EN TODA JUNTA VERTICAL (1 PIEZA POR MARCO 2 PULGADAS, 2 PIEZAS POR 4 Y 6 PULGADAS, 3 PIEZAS POR 8 Y 10 PULGADAS -TÍPICAMENTE). AJOUTER DES PLAQUES DE JONCTION HORIZONTALE À TOUS LES JOINTS VERTICALES ET ÉQUERRES (1 MORCEAU POUR 2' DE MOULURE HORIZONTALE, 2 MCX POUR 4' ET 6' DE MOULURE HORIZONTALE, 3 MCX POUR 8' ET 10' DE MOULURE HORIZONTALE -TYPIQUE).

- ADDITIONAL NOTES:
1. THESE DETAILS ARE REPRESENTATIVE OF FULL-MODULE PANEL INSTALLATIONS, TYPICAL.
 2. AT OFF-MODULE INSTALLATIONS, FIELD-ROUT AS REQUIRED. APPLY TOUCH-UP PAINT TO ROUTED EDGES, TYPICAL.
 3. USE M9 ANGLE AS CROSS-BRACING TO 10" COMPASSO ELITE TRIM, TYPICAL.

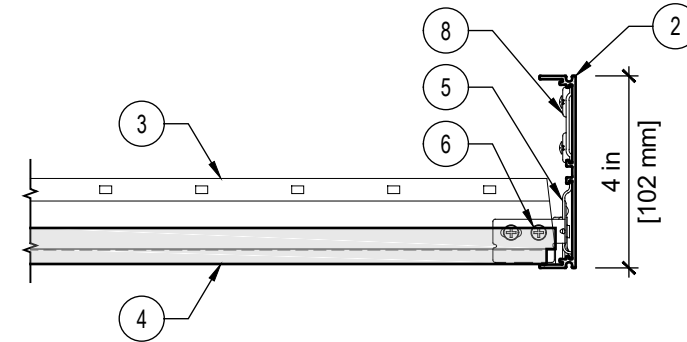
KEYNOTES - COMPASSO TRIM
 TONICAS - COMPASSO MARCO PERIMETRAL
 DISCOURS -COMPASSO GARNITURE DE PLAFOND



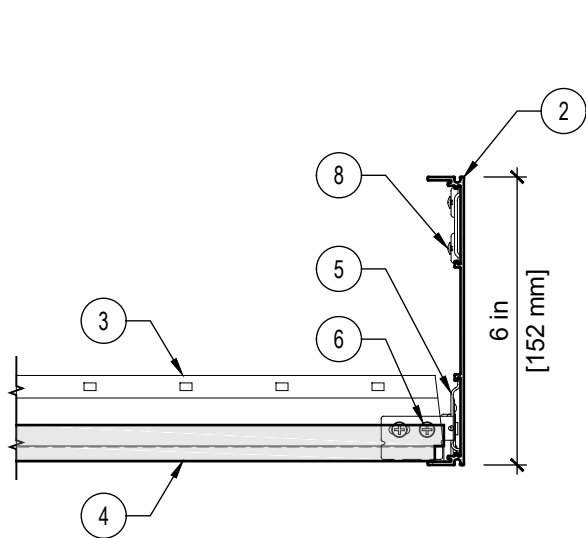
1 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
 Scale: 3" = 1'-0"



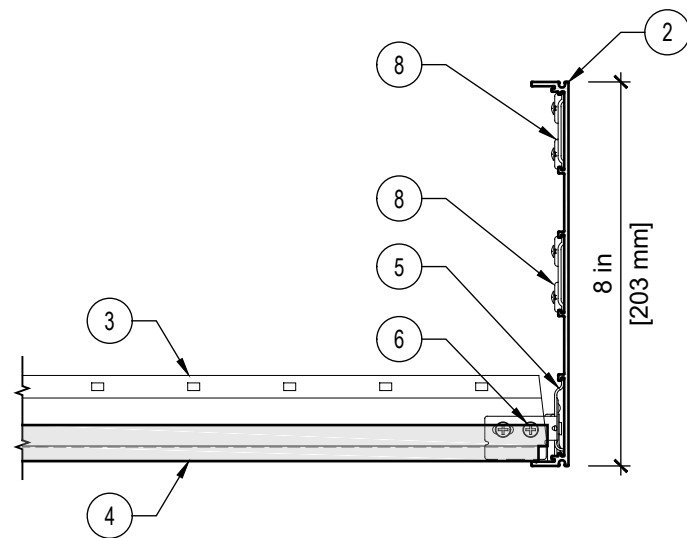
2 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



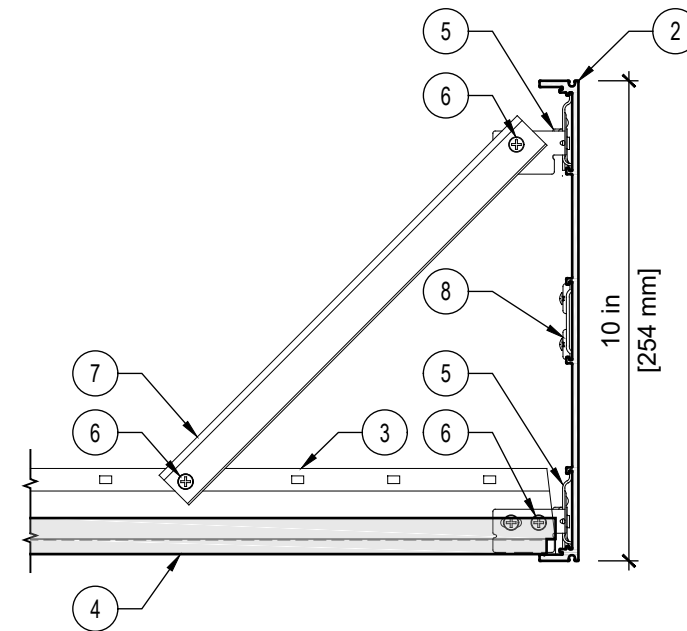
3 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



4 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



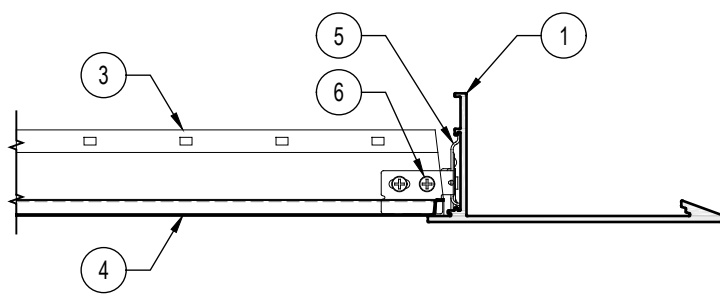
5 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



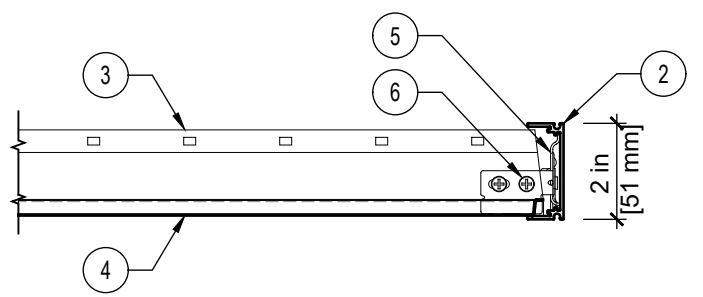
6 FL EDGE - USG ECLIPSE, HALCYON PANELS
 DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

1	COMPASSO SLIM PERIMETER TRIM. COMPASSO SLIM MARCO PERIMETRAL. MOULURE DE PÉRIMÈTRE COMPASSO SLIM.
2	COMPASSO ELITE TRIM. COMPASSO ELITE BORDE. MOULURE COMPASSO ELITE.
3	MAIN OR CROSS TEE, FIELD CUT TO LENGTH. TE PRINCIPAL O SECUNDARIA, RECORTADA A LA MEDIDA. TÉE PRINCIPAL OU TÉE SECONDAIRE, COUPÉ EN CHANTIER.
4	CEILING PANEL. PANEL DE TECHO. PANNEAU POUR PLAFOND.
5	COMPASSO ELITE ATTACHMENT CLIP. ELEMENTO DE AFIJACION PARA COMPASSO ELITE. AGRAFE DE FIXACION POUR COMPASSO ELITE.
6	SECURE WITH PAN HEAD SCREWS. ASEGURE CON TORNILLOS PARA METAL. FIXER AVEC DES VIS À TÊTE CYLINDRIQUE.
7	PROVIDE BRACING WITH M9 CLIP AT 10" COMPASSO TRIM. PROVEER APOYO CON EL ENCAJE M9 CUANDO SE UTILIZA COMPASSO BORDE DE 10 PULGADAS DE ALTO O MAS. PRÉVOIR RENFORCEMENT AVEC MOULURE M9 AU MOULURE COMPASSO 10".
8	ADD HORIZONTAL SPLICE PLATES AT ALL VERTICAL JOINTS (1 PIECE FOR 2" TRIM, 2 PIECES FOR 4" AND 6" TRIM, 3 PIECES FOR 8" AND 10" TRIM, TYPICAL). AGREGAR PLACAS DE ENCAJE EN TODA JUNTA VERTICAL (1 PIEZA POR MARCO 2 PULGADAS, 2 PIEZAS POR 4 Y 6 PULGADAS, 3 PIEZAS POR 8 Y 10 PULGADAS -TÍPICAMENTE). AJOUTER DES PLAQUES DE JONCTION HORIZONTALE À TOUS LES JOINTS VERTICALES ET ÉQUERRES (1 MORCEAU POUR 2' DE MOULURE HORIZONTALE, 2 MCX POUR 4' ET 6' DE MOULURE HORIZONTALE, 3 MCX POUR 8' ET 10' DE MOULURE HORIZONTALE -TYPIQUE).

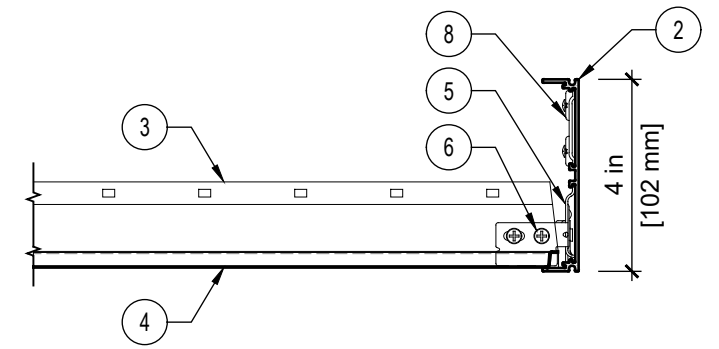
- ADDITIONAL NOTES:
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 3. USE M9 ANGLE AS CROSS-BRACING TO 10" COMPASSO ELITE TRIM, TYPICAL.



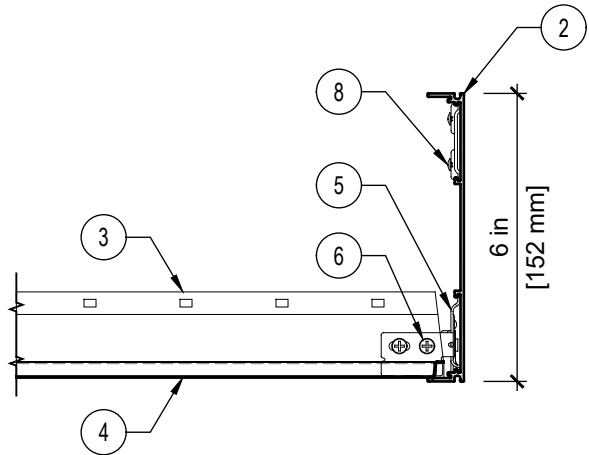
1 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
Scale: 3" = 1'-0"



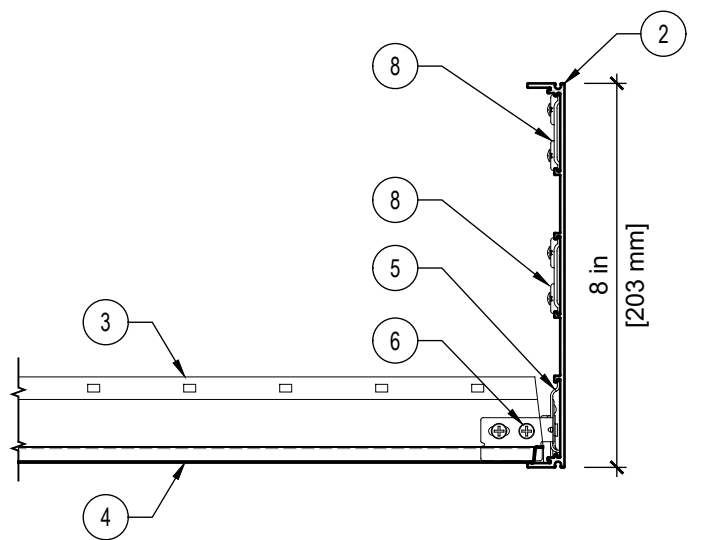
2 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



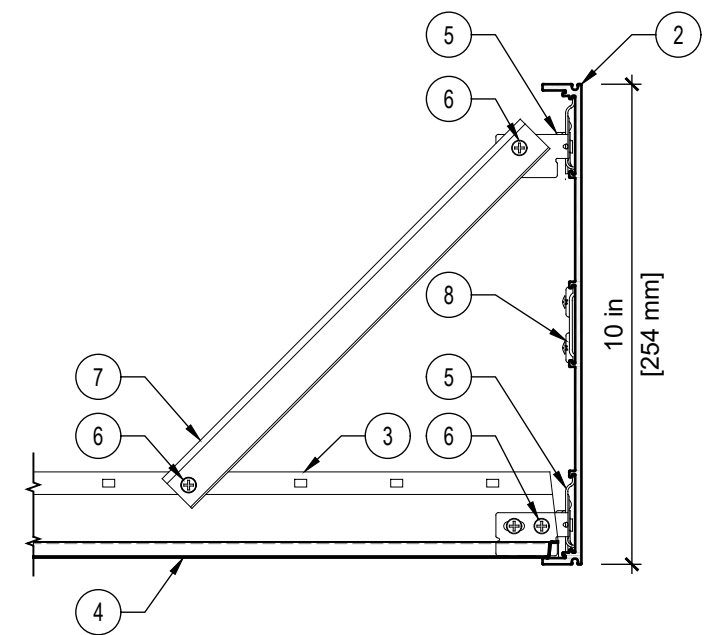
3 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



4 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



5 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



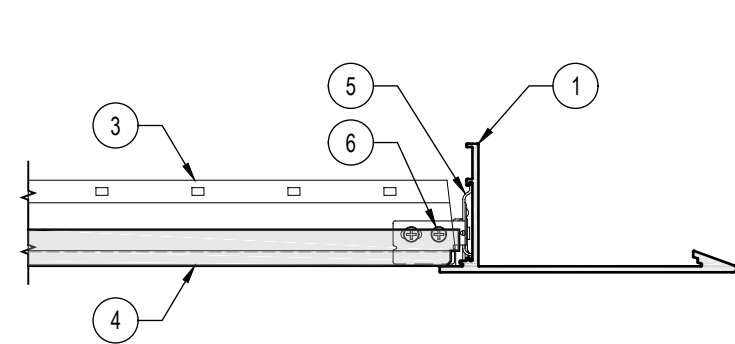
6 FL EDGE - USG PANZ METAL PANEL
DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

KEYNOTES - COMPASSO TRIM
TONICAS - COMPASSO MARCO PERIMETRAL
DISCOURS -COMPASSO GARNITURE DE PLAFOND

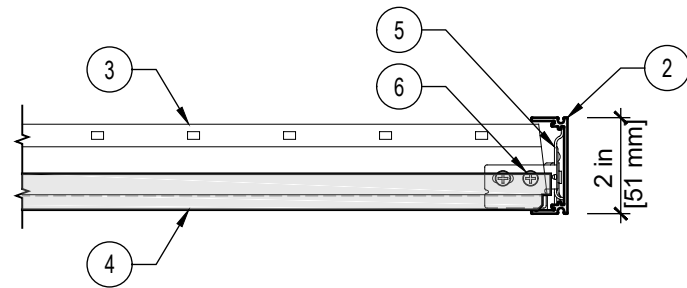
1	COMPASSO SLIM PERIMETER TRIM. COMPASSO SLIM MARCO PERIMETRAL. MOULURE DE PÉRIMÈTRE COMPASSO SLIM.
2	COMPASSO ELITE TRIM. COMPASSO ELITE BORDE. MOULURE COMPASSO ELITE.
3	MAIN OR CROSS TEE, FIELD CUT TO LENGTH. TE PRINCIPAL O SECUNDARIA, RECORTADA A LA MEDIDA. TÉE PRINCIPAL OU TÉE SECONDAIRE, COUPÉ EN CHANTIER.
4	CEILING PANEL. PANEL DE TECHO. PANNEAU POUR PLAFOND.
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6	SECURE WITH PAN HEAD SCREWS. ASEGURE CON TORNILLOS PARA METAL. FIXER AVEC DES VIS À TÊTE CYLINDRIQUE.
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 3. USE M9 ANGLE AS CROSS-BRACING TO 10" COMPASSO ELITE TRIM, TYPICAL.

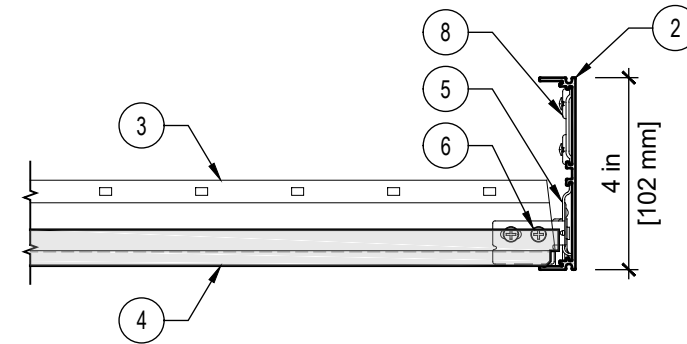
KEYNOTES - COMPASSO TRIM
 TONICAS - COMPASSO MARCO PERIMETRAL
 DISCOURS -COMPASSO GARNITURE DE PLAFOND



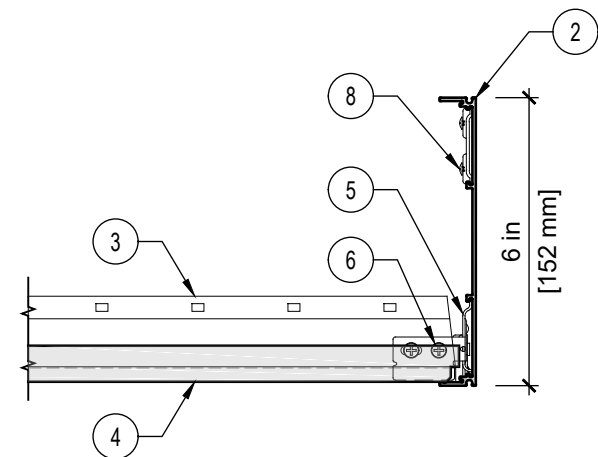
1 FLB EDGE - CAST PANEL
 DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
 Scale: 3" = 1'-0"



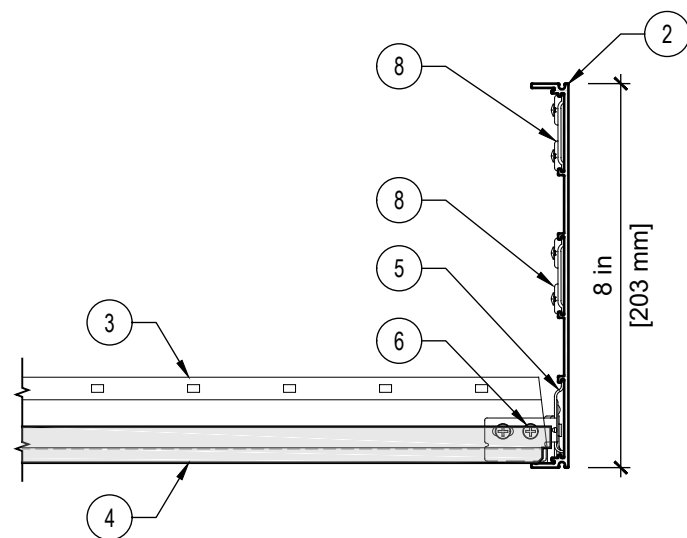
2 FLB EDGE - CAST PANEL
 DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



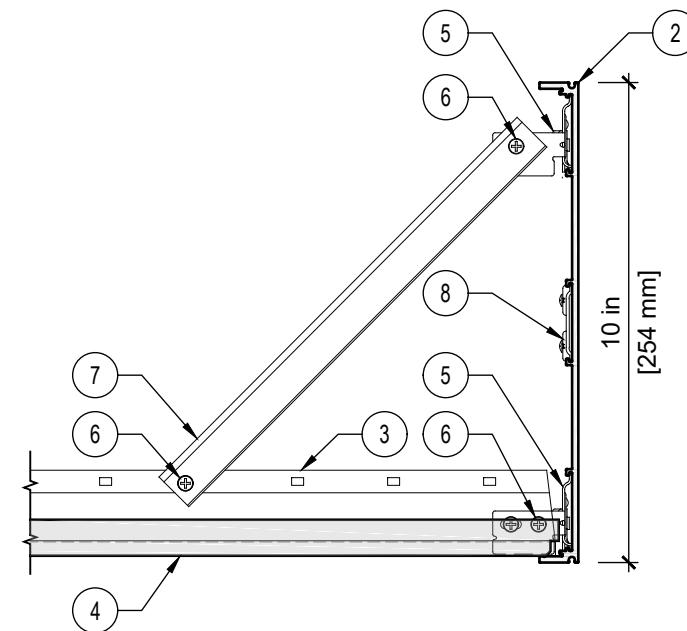
3 FLB EDGE - CAST PANEL
 DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



4 FLB EDGE - CAST PANEL
 DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



5 FLB EDGE - CAST PANEL
 DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

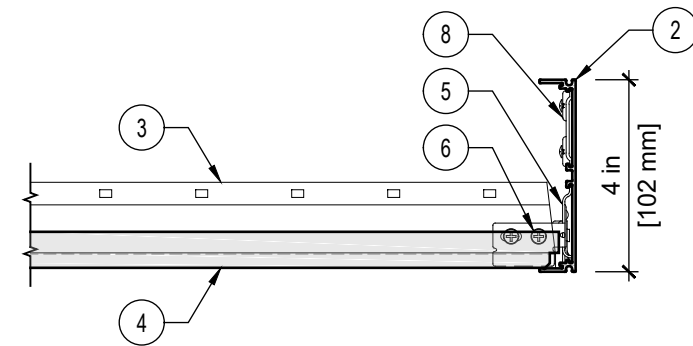
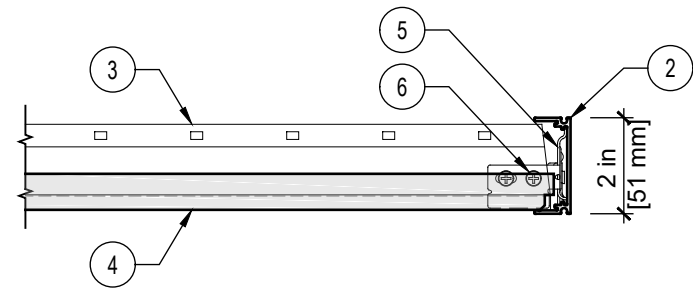
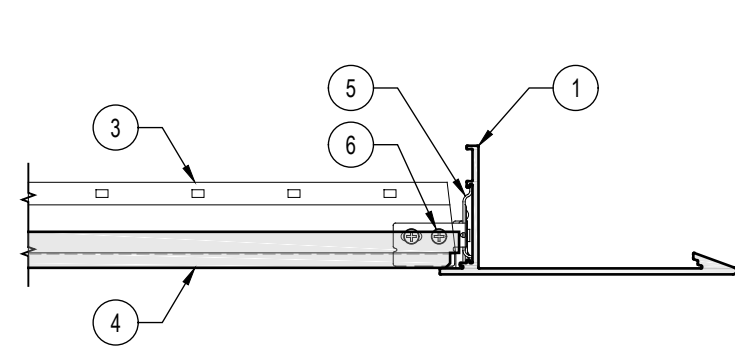


6 FLB EDGE - CAST PANEL
 DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

1	COMPASSO SLIM PERIMETER TRIM. COMPASSO SLIM MARCO PERIMETRAL. MOULURE DE PÉRIMÈTRE COMPASSO SLIM.
2	COMPASSO ELITE TRIM. COMPASSO ELITE BORDE. MOULURE COMPASSO ELITE.
3	MAIN OR CROSS TEE, FIELD CUT TO LENGTH. TE PRINCIPAL O SECUNDARIA, RECORTADA A LA MEDIDA. TÉE PRINCIPAL OU TÉE SECONDAIRE, COUPÉ EN CHANTIER.
4	CEILING PANEL. PANEL DE TECHO. PANNEAU POUR PLAFOND.
5	COMPASSO ELITE ATTACHMENT CLIP. ELEMENTO DE AFIJACION PARA COMPASSO ELITE. AGRAFE DE FIXACION POUR COMPASSO ELITE.
6	SECURE WITH PAN HEAD SCREWS. ASEGURE CON TORNILLOS PARA METAL. FIXER AVEC DES VIS À TÊTE CYLINDRIQUE.
7	PROVIDE BRACING WITH M9 CLIP AT 10" COMPASSO TRIM. PROVEER APOYO CON EL ENCAJE M9 CUANDO SE UTILIZA COMPASSO BORDE DE 10 PULGADAS DE ALTO O MAS. PRÉVOIR RENFORCEMENT AVEC MOULURE M9 AU MOULURE COMPASSO 10".
8	ADD HORIZONTAL SPLICE PLATES AT ALL VERTICAL JOINTS (1 PIECE FOR 2" TRIM, 2 PIECES FOR 4" AND 6" TRIM, 3 PIECES FOR 8" AND 10" TRIM, TYPICAL). AGREGAR PLACAS DE ENCAJE EN TODA JUNTA VERTICAL (1 PIEZA POR MARCO 2 PULGADAS, 2 PIEZAS POR 4 Y 6 PULGADAS, 3 PIEZAS POR 8 Y 10 PULGADAS -TÍPICAMENTE). AJOUTER DES PLAQUES DE JONCTION HORIZONTALE À TOUS LES JOINTS VERTICALES ET ÉQUERRES (1 MORCEAU POUR 2' DE MOULURE HORIZONTALE, 2 MCX POUR 4' ET 6' DE MOULURE HORIZONTALE, 3 MCX POUR 8' ET 10' DE MOULURE HORIZONTALE -TYPIQUE).

- ADDITIONAL NOTES:
1. THESE DETAILS ARE REPRESENTATIVE OF FULL-MODULE PANEL INSTALLATIONS, TYPICAL.
 2. AT OFF-MODULE INSTALLATIONS, FIELD-ROUT AS REQUIRED. APPLY TOUCH-UP PAINT TO ROUTED EDGES, TYPICAL.
 3. USE M9 ANGLE AS CROSS-BRACING TO 10" COMPASSO ELITE TRIM, TYPICAL.

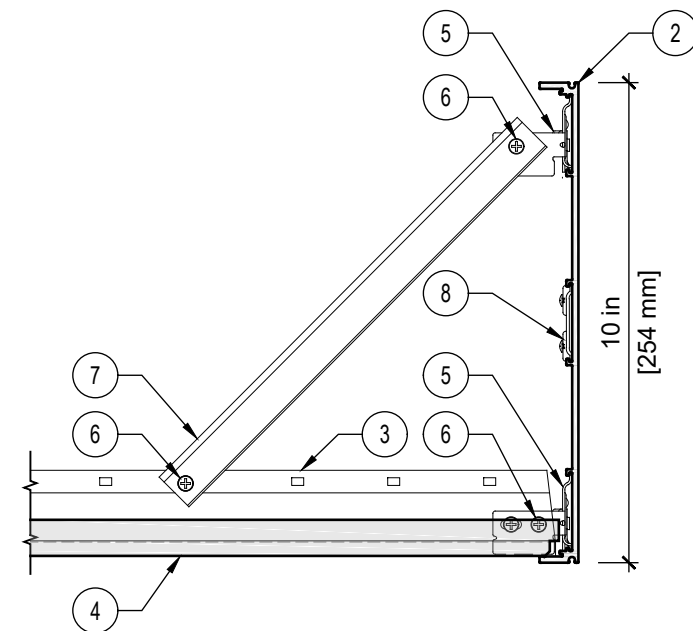
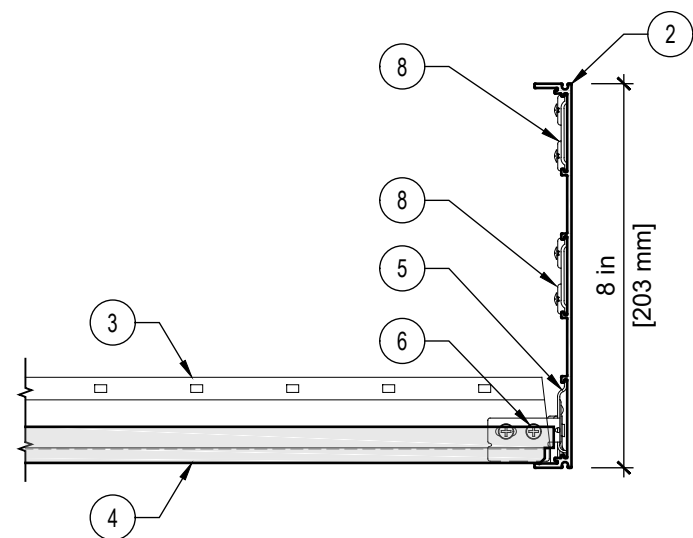
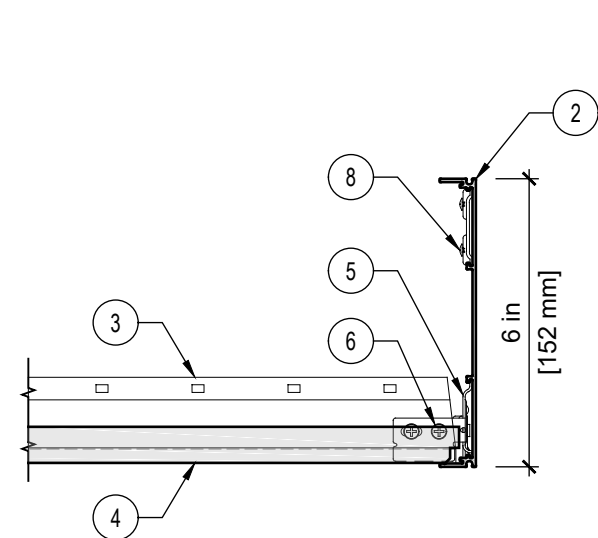
KEYNOTES - COMPASSO TRIM
 TONICAS - COMPASSO MARCO PERIMETRAL
 DISCOURS -COMPASSO GARNITURE DE PLAFOND



1 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
 Scale: 3" = 1'-0"

2 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

3 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"



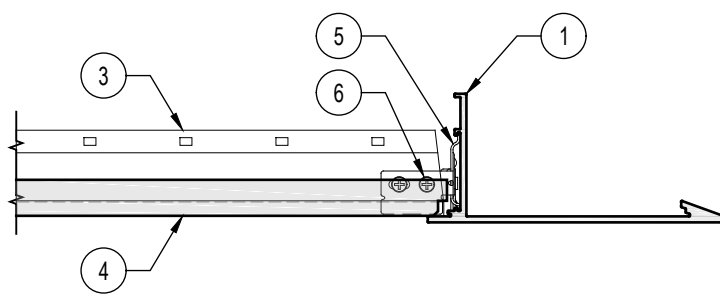
4 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

5 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

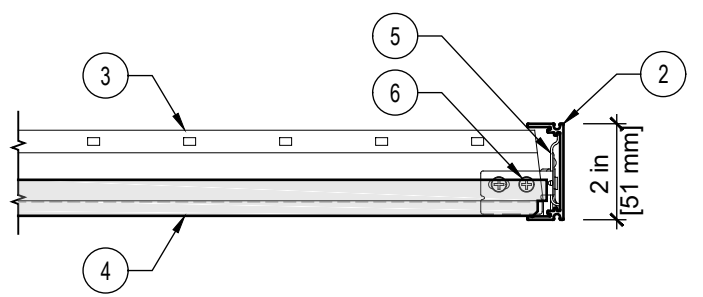
6 FLB EDGE - USG MARS, MILLENNIA PANELS
 DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
 Scale: 3" = 1'-0"

1	COMPASSO SLIM PERIMETER TRIM. COMPASSO SLIM MARCO PERIMETRAL. MOULURE DE PÉRIMÈTRE COMPASSO SLIM.
2	COMPASSO ELITE TRIM. COMPASSO ELITE BORDE. MOULURE COMPASSO ELITE.
3	MAIN OR CROSS TEE, FIELD CUT TO LENGTH. TE PRINCIPAL O SECUNDARIA, RECORTADA A LA MEDIDA. TÉE PRINCIPAL OU TÉE SECONDAIRE, COUPÉ EN CHANTIER.
4	CEILING PANEL. PANEL DE TECHO. PANNEAU POUR PLAFOND.
5	COMPASSO ELITE ATTACHMENT CLIP. ELEMENTO DE AFIJACION PARA COMPASSO ELITE. AGRAFE DE FIXACION POUR COMPASSO ELITE.
6	SECURE WITH PAN HEAD SCREWS. ASEGURE CON TORNILLOS PARA METAL. FIXER AVEC DES VIS À TÊTE CYLINDRIQUE.
7	PROVIDE BRACING WITH M9 CLIP AT 10" COMPASSO TRIM. PROVEER APOYO CON EL ENCAJE M9 CUANDO SE UTILIZA COMPASSO BORDE DE 10 PULGADAS DE ALTO O MAS. PRÉVOIR RENFORCEMENT AVEC MOULURE M9 AU MOULURE COMPASSO 10".
8	ADD HORIZONTAL SPLICE PLATES AT ALL VERTICAL JOINTS (1 PIECE FOR 2" TRIM, 2 PIECES FOR 4" AND 6" TRIM, 3 PIECES FOR 8" AND 10" TRIM, TYPICAL). AGREGAR PLACAS DE ENCAJE EN TODA JUNTA VERTICAL (1 PIEZA POR MARCO 2 PULGADAS, 2 PIEZAS POR 4 Y 6 PULGADAS, 3 PIEZAS POR 8 Y 10 PULGADAS -TÍPICAMENTE). AJOUTER DES PLAQUES DE JONCTION HORIZONTALE À TOUS LES JOINTS VERTICALES ET ÉQUERRES (1 MORCEAU POUR 2' DE MOULURE HORIZONTALE, 2 MCX POUR 4' ET 6' DE MOULURE HORIZONTALE, 3 MCX POUR 8' ET 10' DE MOULURE HORIZONTALE -TYPIQUE).

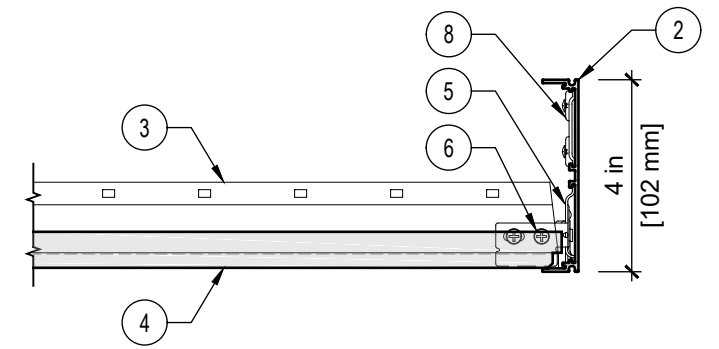
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 3. USE M9 ANGLE AS CROSS-BRACING TO 10" COMPASSO ELITE TRIM, TYPICAL.



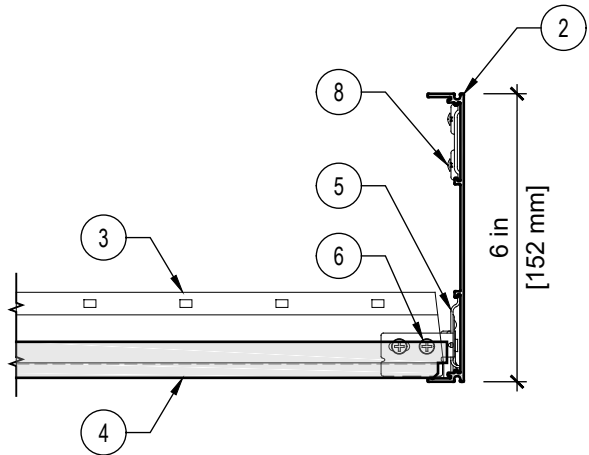
1 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
Scale: 3" = 1'-0"



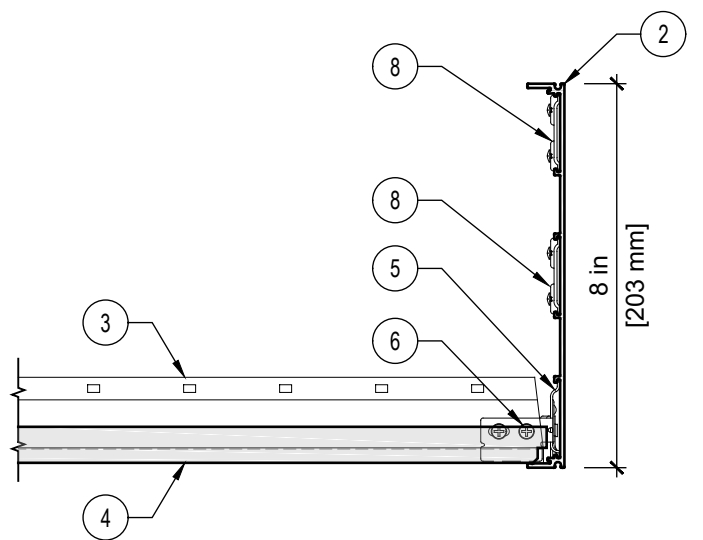
2 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



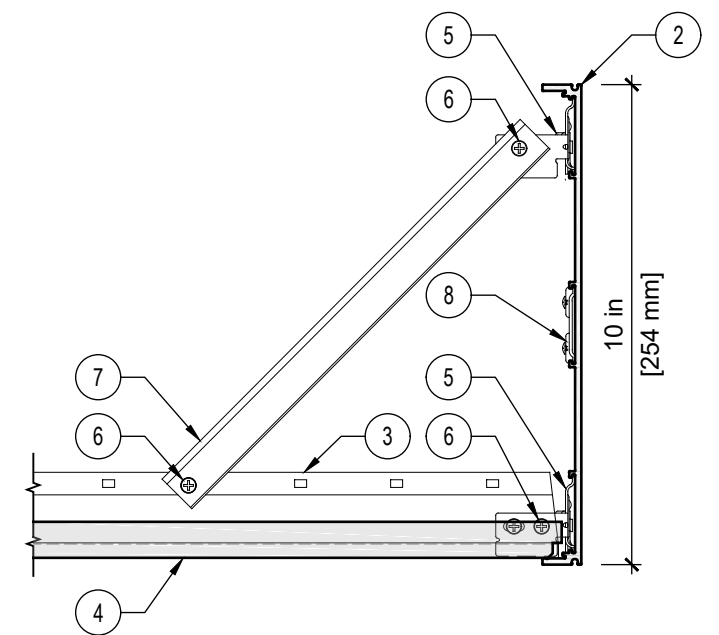
3 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



4 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



5 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

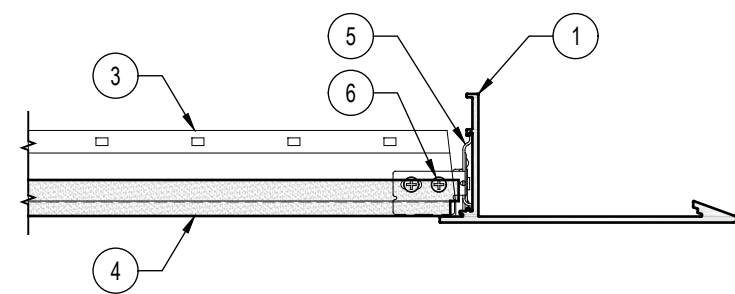


6 FLB EDGE - WET-FORMED PANEL
DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

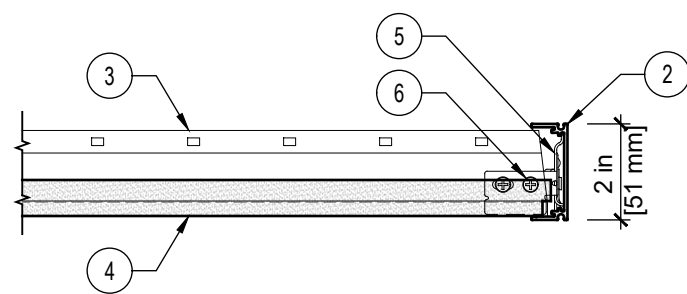
KEYNOTES - COMPASSO TRIM
TONICAS - COMPASSO MARCO PERIMETRAL
DISCOURS -COMPASSO GARNITURE DE PLAFOND

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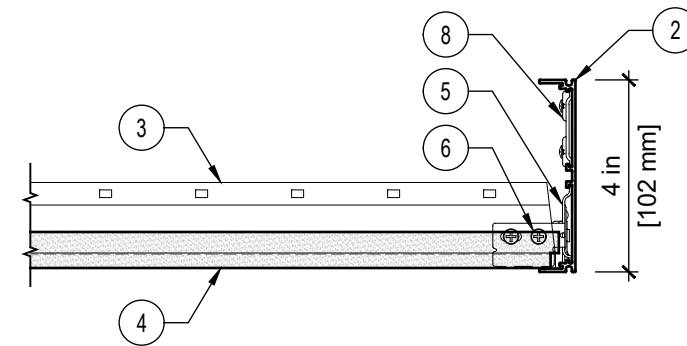
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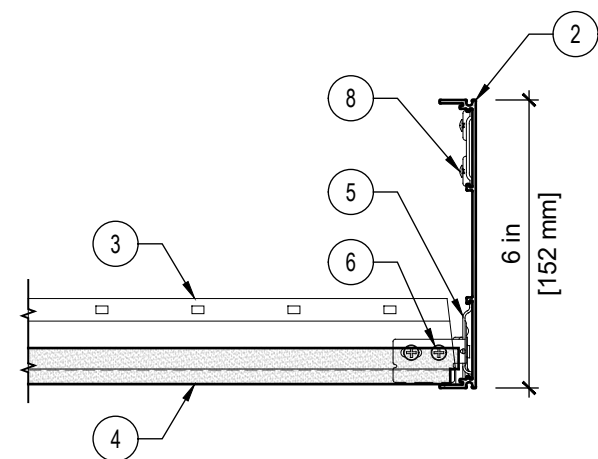
1 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID, COMPASSO SLIM PERIMETER TRIM
Scale: 3" = 1'-0"



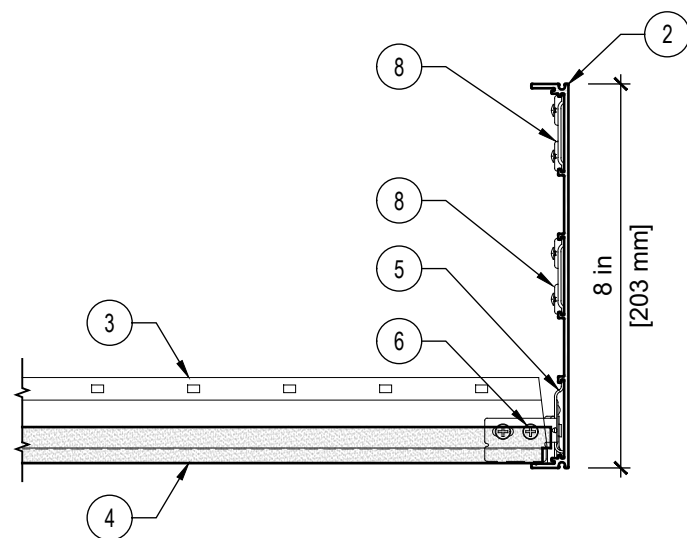
2 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID WITH 2 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



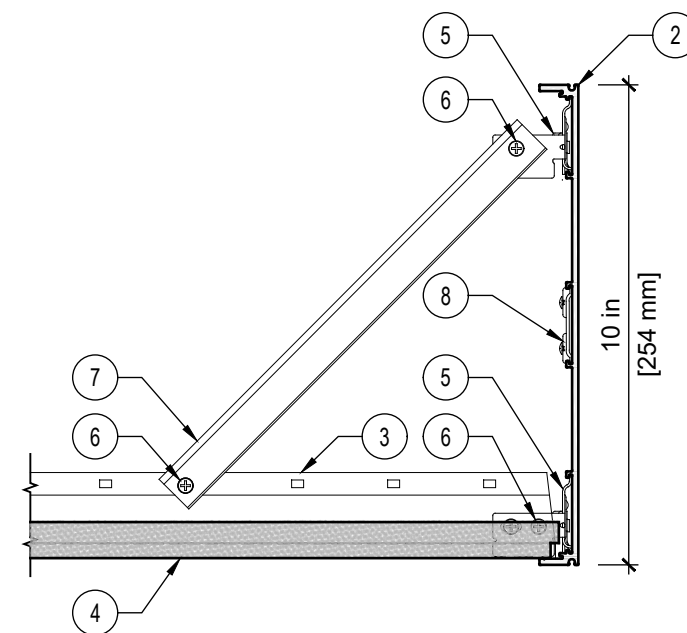
3 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID WITH 4 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



4 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID WITH 6 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



5 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID WITH 8 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"



6 WDFL EDGE - USG TRUE WOOD PANEL
DXF/DXLF GRID WITH 10 IN. COMPASSO ELITE TRIM
Scale: 3" = 1'-0"

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