- RED BREAKER WITH LOCK ON

									Ν	IEW	PAN	EL					- NIENAA A	- COPPED	DUIC		
			•								208	_ PH.	ASE .	<u>3</u> v	WIRE.	4	■ NEMA 1	■ COPPER	BUSS		
SOU							A.]	i.c. <u>2</u>	2,00	0							■ MAIN LUGS	ONLY			
PAN	EL	LO	CATION OPEN	N OFFICE			BU	IS AM	PERI	E RA	ATIN	G .	225	_			■ FLUSH MOI	UNTING			
L M C I S C	R C P T	L I T E	CIRCUIT DESCRI	PTION	LOAD(VA	١)		KR	CVT	DUAG	SE CV		RKR	l	LOAD(VA	l)	CIRCUIT DE	SCRIPTION	M I S C	R C P T	L L T C E L
C S L C	<u>†</u> 2	Ė	ROOM 103 REG	Α	В	С	POLE 1	AMP 20	1	PHAS A B (AMP	POLE 1	A -	В	С		ARE	č	뉘	† C E L
	2		NOO! 135 KE	300	360		1	20	3	$ \downarrow\downarrow$			1		-		517		$\dagger \dagger$	+	+
	2		Ť		1	360	1	20	5	+	6	20	1		1	-			П	\Box	$oldsymbol{\perp}$
+	2		ROOM 106 REC	CEPT 360	360]	1	20	7		8	+	1	-	-]			++	+	+
	2		•		300	360	1	20	11	\prod	10	+	1			-			+	+	+
	2		ROOM 107 REG	CEPT 360]		1	20	13	╁	14	20	1	-							
	2				360		1	20	15		16	+	1	<u>,</u>	_	_	1	<u> </u>	\sqcup	4	\bot
_	2		ROOM 108 REG	CEPT 360		360	1	20	17 19		18	+	1	360			BREAK ROO	OM RECEPT	++	+	+
	2		1,001,1200,121	32 300	360		1	20	21	$ \downarrow\downarrow$	22	+	1	300	360		DIA III III		\Box	\dagger	+
	2		Ţ		1	360	1	20	23	+	24		1		1	360			П	ightharpoons	工
	2		CONFERENC	CE 360	360]	1	20	25		26		1	360	360]	,	•	++	+	+
	2		*		300	360	1	20	27 29	\prod	30	+	1		300	360	ROOM 10	4 RECEPT	+	+	+
	2		POWER POLE	#1 360			1	20	31	++	32	+	1	360							
	2				360		1	20	33		34	+	1		360			<u> </u>	\sqcup	4	\bot
	2			360		360	1	20	35 37		36	+	1	360		360	ROOM 10	6 RECEPT	+	+	+
	2		 	300	360		1	20	39	$ \downarrow\downarrow$	40		1	300	360		,	 	H	+	+
	2		POWER POLE	#2	,	360	1	20	41	+	42	20	1		,	360	POWER	POLE #3		\Box	
	2			360	260]	1	20	43	†	44	+	1	360	260]			++	\dashv	+
+	2				360	360	1	20	45 47	\prod	46	+	1		360	360			++	+	+
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			SPARE				1	20	51		52	+	1				SPA	ARE		\dashv	4
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			T	OTALS 3240	2880	2880								2160	1800	1800	TOTALS				
L.C.I	VC	DLT A	MPS: .	PHASE /	Α.					PHAS	E B					PHASE	с.				
тот	AL V	OLT	AMPS: 14760	PHASE A	A 54	100				PHAS	E B	4680				PHASE	C 4680				
	T	OTAL	_ AMPS: 41	PHASE A	A 4!	5				PHAS		39				PHASE	C 39				
								ISC	DLATE	GRO	UND P	ANEL									
			****								PAN			2		4	■ NEMA 1	■ COPPER	BUSS	<u>—</u>	
PAN	EL	NU	MBER <u>ITM</u>				VC		Œ <u>∠</u>			_ PH	ASE _	<u> </u>	WIRE_	4	■ MAIN CIRC			22	25

										ISC	DLATE	D GRO	NUC	ND PA	NEL										
Γ											N	IEW	/ P	ANE	<u></u>										
ľ	PAN	IEL	NI	JMBER	ITM				V(OLTAG	SE 2	25			_ PH/	ASE _	3 \	VIRE_	4	■ NEMA 1	■ COPPER	BUS	S		
				DB						I.C. 2										■ MAIN CIRC	CUIT BREAKER		2	25	_
				CATION :	IT ROOM					JS AM			ΑТ	ING	-	225				■ SURFACE I	MOUNTING				_
t	L M				DESCRIPTION		LOAD(VA		+	KKR	СКТ	PHA	SF	CKT		KR		_OAD(VA		CIRCUIT D	ESCRIPTION	M I S C	R C P T	L I T E	L C L
F	<u> </u>	<u> Ť</u>	<u>↓Ė</u>		3 (COM)	5500	В	С	POLE	AMP 60	1	A B		2	AMP 15	POLE	A 300	В	С	SS1A	(COM)	Č	Ť	Ė	
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+	+	+	+	5534	A (MDF)	2500	2500]	2	20	13 15	┨	I	14 16	20	1	•]	SP.	ARE I	+	$\vdash\vdash$	+	
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][T	T	SMOKE	DETECTOR			100	1	20	41	144	+	42	20	1			180	,			1	\top	_
					TOTALS	16000	13500	13600									960	960	960	TOTALS					
	L.C	L. V	OLT	AMPS: .		PHASE A	Α.					PHAS	SE E	3					PHASE	С.					
	TO	-AΙ \	/OI ⁻	Γ AMPS: 45	980	PHASE /	Δ 16	5960				PHAS	SE F	3	14460				PHASE	C 14560					
f																									
L			01/	AL AMPS: 68		PHASE /	A 75	,				PHAS			64				PHASE	C 65			_	_	_
L											١	IEW	P	ANE	<u>_</u>										
1																				■ NEMA 1	■ CODDED	DIIC	C		

٩	٧E	_ [VU	MBER M				VC	DLTAG	SE <u>1</u>	20/2	08VA	<u>.</u> С Р	HASE	3	WIR	E_4_	■ NEMA 1	COPPER	BUS	S		
Ю	UR	CE	Ξ	DB				A.:	I.C. 2	2,00	0							■ MAIN LUGS ON	NLY				
Α				CATION PER E400				BU	JS AM	PERI	E RA	TING		225	_			■ FLUSH MOUNT	ΓING				
	M I S C	R C	L T E	CIRCUIT DESCRIPTION	l	LOAD(VA	١)	BR	KR				BR	RKR	l	_OAD(VA	ı)	CIRCUIT DESCR	DIDTION	M I S C	R C P T	L I T E	L
-	S C	P T	T E	CIRCUIT DESCRIPTION	Α	В	С	POLE	AMP	CKT	PHASE A B C	CKT	AMP	POLE	Α	В	С	CIRCUIT DESCR	RIPTION	S C	PT	T E	Ċ L
1				EF1	250		,	1	15	1	+++	2	40		2250		,	WH-1		1	Ш	\square	L
1	_	_		EF2		250		1	15	3	┤ ┿┼	4		2		2250		<u> </u>		1	Ш	\dashv	L
4	4			EF3		1	250	1	15	5	 	6	20	1		1	100	LAV MEN		-	Ш	\dashv	
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4	+	4		PUMP 2		1	600		15	11	 	12	20	1		1	560	ROOF REC	EPT	—'	2	\dashv	_
+	4	4			600		1			13	†	14	20	1	360			V		₩	2	\dashv	_
+	+	4		CDARE	_	600	-	3	20	15	† † †	16	20	1		100	260	SMOKE DETE		 	Н	\dashv	
+	+	\dashv		SPARE I	-	1		1	20	17		18	20	1	200	1	360	MECH ROOM I	RECEPT	—	$\vdash\vdash$	\rightarrow	_
+	+	\dashv				_		1	20 20	19		20	20	1	360	240		RP (RECIRC I	DI IMD\	\vdash	$\vdash\vdash$	\dashv	\dashv
+	-	\dashv			_		_	1	20	21		22	20	1		240	200	CONDENSATE	•	\vdash	Н	\dashv	_
+	+	\dashv			-]		1	20	25	\coprod	26	20	2	200]	200	CONDENSATE	PUMP	┼	$\vdash \vdash$	\dashv	\dashv
+	+	\dashv				-		1	20	27	Ш	28	20	1	200	100		DUCT DETEC	^TOR	\vdash	\vdash	\dashv	\dashv
+	+	\dashv			-		-	1	20	29		30	20	1		100	100	DOCT DETEC	J TOK	\vdash	$\vdash \vdash$	\dashv	\dashv
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1		\exists				-		1	20	39	+++	40	20	1		-				\vdash	П	一	
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			•	TOTALS	1450	1450	850						•		3270	2550	1120	TOTALS					
	`	VΩ	I T A	AMPS: .	PHASE	Α.		•			PHASE	В				•	PHASE	С .					

PHASE B 33

TOTAL AMPS: 29

PHASE A 38

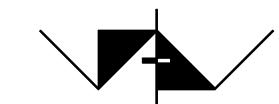
								11=14	V D	ANE										
ANEL	NU	MBER ITA				VOLTA						HASE	3	WIR	E <u>4</u>	■ NEMA 1	■ COPPER	BUS	S	
OURC		UPSA DED 5400				A.I.C.			_							■ MAIN LUGS	ONLY			
	П	CATION PER E400	<u> </u>	.OAD(VA)	BUS A	MPER	E R	RAT	ING	-	225 .KR	_	_OAD(VA	١)	■ FLUSH MOU	UNTING	M	R	Ļ
M R I C S P C T	Ī T E	CIRCUIT DESCRIPTION IT RACKS	A 600	В	С	POLE AME			ASE B C	CKT 2	AMP 30	POLE	A 600	В	С	CIRCUIT DE		M I S C	R C P T	Ĭ T E
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			600	600		1 20 1 20	39		+	38 40	30	2	-	-						
		TOTALS	4200	4200	4200	1 20	41	+	+	42	20	1	3000	3000	3000	TOTALS	.CK			
L.C.L. VC	DLT A	AMPS: .	PHASE /	А.				PHA	ASE E	3				1	PHASE	C .				
TOTAL V	OLT	AMPS: 21600	PHASE A	A 72	00			PHA	ASE E	3	7200				PHASE	C 7200				
T	OTAI	L AMPS: 60	PHASE A	A 60				PHA	ASE E	3	60				PHASE	C 60				
						IS	SOLATE	O GR	OUN	D PAN	IEL									
										ANE						■ NEMA 1	■ COPPER	DLIC		
ANEL									/20	8VA	C P	HASE	_3_	WIR	E_4_	■ NEMA 1	■ COPPER	BUS:		
OURC PANFI		DB CATION PER E400				A.I.C. BUS A			− RAT	TNG	;	225				MAIN LUGS				
M R I C S P C T		CIRCUIT DESCRIPTION		OAD(VA		BRKR	CICT				BR	KR	 	_OAD(VA	í 	FLUSH MOU		M I S C	R C P T	L I T E
2	Ė	ROOM 168 RECEPT	360	В	С	POLE AMF	1	A F	B C	2	AMP 20	POLE 1	360	В	<u> </u>	ROOM 15		č	2	Ė
2 2				360	360	1 20 1 20		†• 	+	4 6	20 20	1		360	720				2 4	
2 2		ROOM 167 RECEPT	360	360		1 20 1 20] 	+	8 10	20 20	1	360	360		ROOM 15	9 RECEPT		2	<u> </u>
2 2		ROOM 168 RECEPT	360		360	1 20 1 20		+	+	12 14	20 20	1	360]	360				2	_
2 2				360	360	1 20 1 20	15	1	\downarrow	16 18	20 20	1		360	360				2	
2 2		ROOM 156 RECEPT	360	360	300	1 20	19	+	\prod	20	20 20	1	360	260	300	DOOM 16	O DECEDT		2	
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2 2		WAITING RECEPT		360	360	1 20 1 20	+]+	+	34 36	20 20	1		360	360				2	
2 2		<u> </u>	360	360		1 20 1 20		+	+	38 40	20 20	1 1	360	360]	ROOM 17	1 RECEPT		2	
2 2		OPEN OFFICE RECEPT	360		360	1 20	41	1	+	42	20	1	360]	360	ROOM 17	2 RECEPT		2	
2 2			300	360	360	1 20	45		$\frac{1}{1}$	46	20	1 1	300	360	360	NOO! 177	Z RECEI I		2	
2			360		300	1 20	49	1	\prod	48 50	20	1	360	260	300				2	
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		VENDING MACHINE VENDING MACHINE	500	500		1 20 1 20	67	1+		68 70	20 20	1	360	360					2	_
		VENDING MACHINE			500	1 20		1	<u> </u>	72	20	1			360	1			2	
		TOTALS	4100	4100	3740								4320	4320	4680	TOTALS				
L.C.L. VC	OLT A	AMPS: .	PHASE A	Α .					ASE E		•				PHASE					
TOTAL V			PHASE A		20				ASE E		8420				PHASE					
TO	OTAI	L AMPS: 66	PHASE A	Α .				PHA	ASE E	3	•				PHASE	C .				
							ľ	NEV	V P	ANE	L						T			
PANEL						VOLTA			/20	AV8	C P	HASE	3	WIR	E_4_	■ NEMA 1	■ COPPER	BUS	5	
SOURC		DB CATION PER E400				A.I.C. BUS A			_ > ^ T	TNC		225				■ MAIN LUGS	ONLY			
M R S I C S P	L I I E	CIRCUIT DESCRIPTION	L	OAD(VA)	BRKR	1				-	KR	_	_OAD(VA	()	FLUSH MOU		M I S C	R C P T	L Į
S P C T	Ē	ROOM 123 RECEPT	A 360	В	С	POLE AME		PH/ A E	ASE B C	CKT 2	AMP 20	POLE 1	A 360	В	С	ROOM 12		S	P T 2	Ĭ T E
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		SPARE	-		•	1 20 1 20	19		H	18 20	20	1	360		360	ROOM 12		\coprod	2	
				-	-	1 20 1 20	23	<u> </u>	+	22 24	20 20	1		360	360	ROOM 12	9 RECEPT	\parallel	2	
			-	-		1 20 1 20		<u></u>	#	26 28	20 20	1	360	360		ROOM 12	7 RECEPT	\prod	2	1
+			-		-	1 20 1 20	29	1		30	20	1	360		360			H	2	+
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			-	-		1 20	37	1	$\left \frac{1}{2} \right $	38	20	1	-] -		SPA	vi vi	\parallel		+
					-	1 20 1 20				40 42	20 20	1			-	l l	<u> </u>			
		TOTALS	1080	1800	720								2160	2160	1800	TOTALS				
L.C.L. VC	OLT A	AMPS: .	PHASE A	۸ .				PHA	ASE I	3					PHASE	<u>. </u>				

KEY NOTES:

1 LOCK ON DEVICES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 07/11/2024

DIVISION OF THE STATE ARCHITECT



AMADOR WHITTLE

ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301

(805) 530-3938 , (818) 874-0071

Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD

CONSULTANT

PROJECT TITLE

LUCCI & NECUCIALES INC. CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

ELECTRICAL **PANEL** SCHEDULES (NEW)

21-MPC-040 PROJECT ARCH: LK/DS CHECKED: SHEET NUMBER:

L.A.I.# 21-375

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY

2520 2520 2520 TOTALS

ALL PANEL SHALL

BE FULLY RATED

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NEW PANEL

BUS AMPERE RATING $\frac{225}{}$

 LOAD(VA)
 BRKR
 CKT
 PHASE A B C
 CKT
 BRKR
 LOAD(VA)

1 20 21 22 30

600 1 20 29 1 20 21 30 30 30 1 20 31 32 2

1 20 37 1 20 39 1 20 41 40 2 42 20 1

PHASE B

ISOLATED GROUND PANEL

_ A.I.C. <u>22,000</u>

BRKR

PHASE B 5400

PHASE B 45

BUS AMPERE RATING $\frac{225}{}$

A B C POLE AMP CKT PHASE ABC CKT AMP POLE A B C

1 20 1 1 20 3 4 20 1 360 360 1 20 5 6 20 1

1 20 7 8 20 1 360

1 20 9 1 10 20 1 360

 360
 1
 20
 11

 1
 20
 13

 1
 20
 15

 16
 20
 1

 360

1 20 17 18 20 1

1 20 21 1 20 23 1 20 25 1 20 27 22 20 1 24 20 1 26 20 1 360 28 20 1

1080 1 20 35 36 20 1

1 20 37 1 20 39 360 1 20 41 360 1 20 41 360 1 20 41 360 1 20 41

PHASE B

PHASE B 3600

PHASE B 30

_ VOLTAGE <u>120/208VAC</u> PHASE <u>3</u> WIRE_

 BRKR
 CKT
 PHASE A B C
 CKT
 AMP POLE
 A B C

 1
 20
 1
 2
 2
 1
 1200
 1

NEW PANEL

_ BUS AMPERE RATING $\frac{225}{}$

1 20 27 28 20 1

1 20 37 1 20 39 1 20 41 1 20 41 38 20 1 40 20 1 42 20 1

PHASE B 4580

PHASE B 38

VOLTAGE 120/208VAC PHASE 3 WIRE 4

 BRKR
 CKT
 PHASE A B C
 CKT
 AMP
 POLE A B C
 BRKR
 LOAD(VA)

 1
 20
 1
 4 B C
 2
 20
 1
 360
 360

NEW PANEL

_ BUS AMPERE RATING 225

1 20 3 4 20 1

 360
 1
 20
 11

 1
 20
 11

 1
 20
 13

 1
 20
 15

 360
 1
 20
 17

 1
 20
 19

 1
 20
 21

 360
 1
 20
 21

 360
 1
 20
 23

 1
 20
 25

 1
 20
 27

 28
 20
 1

1 20 27 1 20 29 28 20 1 30 20 1

360 1 20 5 1 20 7 8 20 1 360 360 1 20 9 10 20 1 3

1 20 3 4 2 600 600 1 20 5 6 30 1 20 7 8 2 600 1 20 9 10 30 600

_ A.I.C. 22,000

PANEL NUMBER

SOURCE UPSA

PANEL LOCATION PER E400

CIRCUIT DESCRIPTION

SPARE

L.C.L. VOLT AMPS:

PANEL NUMBER

SOURCE DB

L.C.L. VOLT AMPS:

SOURCE DB

TOTAL VOLT AMPS: 11280

TOTAL AMPS: 3

PANEL LOCATION PER E400

CIRCUIT DESCRIPTION

WALKWAY 130

ROOM 114 - 118

EXTERIOR LITES

ROOM 158 - 165

ROOM 108 & 109

TOTAL VOLT AMPS: 11130

TOTAL AMPS: 31

PANEL LOCATION PER E400

CIRCUIT DESCRIPTION

ROOM 140 RECEPT

ROOM 140 RECEPT

ROOM 141 RECEPT

ROOM 144 RECEPT

LAVATORY EQUIPMENT 1000

RECEPTION / HALLS 360

TOTALS 3440 3440 3440

PANEL NUMBER SOURCE DB

TOTAL VOLT AMPS: 15600

PANEL LOCATION PER E400

ROOM 135 RECEPT

CORRIDOR RECEPT

ROOM 118 RECEPT 360

TOTALS | 840 | 1080 | 2160 |

PHASE A

TOTALS 2300 1900 1500

PHASE A 3250

PHASE A 3360

TOTALS | 4200 | 4200 | 3600 |

PHASE A

PHASE A 5400

_ VOLTAGE 120/208VAC PHASE 3 WIRE 4 NEMA 1 COPPER BUSS

1200 | 1200 | 1200 | TOTALS

_ VOLTAGE 120/208VAC PHASE 3 WIRE 4 NEMA 1 COPPER BUSS

PHASE C 4800

MAIN LUGS ONLY

FLUSH MOUNTING

CIRCUIT DESCRIPTION

ROOM 117 RECEPT

360 ROOM 115 RECEPT

360 ROOM 114 RECEPT

360 ROOM 131 RECEPT

2520 2520 2160 TOTALS

950 2680 1800 TOTALS

PHASE C

PHASE C 3300

PHASE C 28

PHASE C

PHASE C 4320

PHASE C 36

■ MAIN LUGS ONLY

FLUSH MOUNTING

CIRCUIT DESCRIPTION

ROOM 125 TO 128

ROOM 124

IT ELECTRICAL ROOM

GEN ASSIGN ROOM 166 -171

WAITING WALKWAY

■ NEMA 1 ■ COPPER BUSS

MAIN LUGS ONLY

FLUSH MOUNTING

CIRCUIT DESCRIPTION

ROOM 148 RECEPT

ROOM 147 RECEPT

ROOM 146 RECEPT

ROOM 142 RECEPT

ROOM 143 RECEPT

HALLWAY 139

MAIN LUGS ONLY

FLUSH MOUNTING

CIRCUIT DESCRIPTION

L6-30R

L6-30R

PHASE C 16

TOTAL VOLT AMPS: 9720

TOTAL AMPS: 27

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STAMPS/SEALS

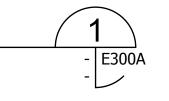
ARP RELAY PANEL CUT SHEETS

Dead-Front removed

Shown with optional Circuit Separation Barrier

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Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitycontrols.com



LIGHTING FIXTURE SCHEDULE (OFFICE BUILDING) MANUFACTURER AND SYMBOL MOUNTING DESCRIPTION REMARKS AND QUANTITY MODEL NUMBER 2' X 4' LAY-IN LITHONIA # ENVEX2X4 - HRG- 80CRI RECESSED 35K DARK EZT MVOLT CL80 - 40L-ADP-MVOLT-EZB-LP835-N80 ' X 2' LAY-IN LITHONIA # ENV X2X2 HRG 80CRI 35K RECESSED DARK EZT MVOLT CL80 2' X 2' LAY IN WITH OCCUPANCY F2N LITHONIA # ENVX 2X2 HRG 80CRI 35K RECESSED DARK EZT MVOLT CL80 NESPDT7 2' X 2' LAY IN WITH OCCUPANCY LITHONIA # ENVX 2X2 HRGC 80CRI 35K DARK EZT MVOLT CL80 NESPDT7 LITHONIA #EVO 6L 20K/30 6AR MVOLT LED DOWNLIGHT RECESSED 6" APERTURE $\left\langle \frac{\text{F4}}{\text{-}}\right\rangle$ LITHONIA EVO 6LW 20K/25 6AR LSS MVOLT RECESSED 20 LED WALLWASH 2' X 4' LAY-IN LED UTILITY FIXTURE LED LITHONIA # EPANL 2X4 80CRI 3000LM RECESSED WITH ACRYLIC LENS 35K MIN1nLIGHT MVOLT 1' X 4' SURFACE MOUNTED LED W/ WITH SURFACE MOUNT KIT LITHONIA # EPANL 1X4 80CRI 3000LM RECESSED 35K MIN1nLIGHT MVOLT 36" UNDER-COUNTER SURFACE **ELECTRONIC 0-10V DIMMING** KELVIX - UC32 - 3040 010 120V/277 WH - (40" OR 22") 2W / FT | MOUNTED LED COMPACT FIXTURE | LED ' x 4' SURFACE MOUNTED LED LITHONIA TLX4-40L-RW-A19-EZ1-LP835 SURFACE LITHONIA CLX - L48 - 4000LM HEF WDL WD MVOLT GZ1 35K 80CRI WH 9'-0" AFF CHAIN / PENDANT MTD LED DOWN MARK FSM4L - BW - 875LF FT AS NOTED PENDANT 80CRI 35K 1C 600CLMF W11 MVOLT WHT EXIT SIGN EDGE-LIT W/ 6" HIGH ARROW AS REQUIRED PER PATH OF EGRESS, LITHONIA # PENDANT LRP-1-W-GC-120/277 EL-N (DOUBLE FACE WHERE NOTED) (WITH TWO SOURCES, NORMAL & MARK S4PD - LLP - 12FT - 80CRI 35K 1000 LMF DARK 120 84 SLOT4 (4") PENDANT 12'-0" PENDANT SURFACE MOUNTED COVE LIGHT FOCAL POINT 6W/FT FOR PUBLIC TOILETS - SEEM 4 SURFACE FSM4LS-AF-FL-625LF-35K-1C-UNV-L11-NLT1-SM-TS-LENGTH PER PLANS EXTERIOR 1' x 4' LITHONIA TLX4 40L FW A19 EZ1 SURFACE 5" SQUARE OUTDOOR KENALL MS 15 CL - PP - MW - 25L35K - 120 -SURFACE POLE LIGHT 14' CYCLONE - CLE17T4D - NL T3 - P40 - 40K - MVOLT - 10KV -PT - SD - BK - SM - MG

CONTROL SCHEDULE OS3 BG1 NBRG 8 KIT Low Voltage Ceiling Mount Sensor, Small Motion / Standard Range 360° lens nLight Bridge, Kit (OS4) BG2 NBRG 8 KIT NCM 10 Low Voltage Ceiling Mount Sensor, Large Motion / Extended Range 360° lens nLight Bridge, Kit BG3 (PC1) NBRG 8 KIT NCM ADCX Low Voltage Ceiling Mount Sensor, Photocontrol w/ Auto Dimming; no wires nLight Bridge, Kit BG4 NBRG 8 KIT Low Voltage Ceiling Mount Sensor, Small Motion / Standard Range 360° Lens, Photocontrol w/ Auto Dimming No Wires nLight Bridge, Kit BG5 (PO2) NCM 10 ADCX NBRG 8 KIT Low Voltage Ceiling Mount Sensor, Large Motion / Extended Range 360° Lens, Photocontrol w/ Auto Dimming No Wires nLight Bridge, Kit BG6 NBRG 8 KIT SC1 NECY MVOLT ADR ENC GFXK nLight Bridge, Kit nLight Eclypse, 24 VAC SO1 BG7 NBRG 8 KIT NWSX PDT LV DX XX Wall Switch Sensor, Passive Dual Technology, Low Voltage, Raise/Lower Dimming Without Wires nLight Bridge, Kit BG8 SO2 NBRG 8 KIT WSX D XX Wall Switch Sensor, Occupancy Controlled Dimming nLight Bridge, Kit BG9 NBRG 8 KIT Low voltage Push-Button Wallpod, Raise/Lower Dimming Without Wires nLight Bridge, Kit SW2 DE1 NPP16 D ER EFP NPODM 2P DX XX Power/Relay Pack, Occupancy Controlled Dimming, UL924 Emergency Operation, External Fault Protection. Low Voltage Push-Button Wallpod, 2-Pole, Raise/Lower Dimming Without Wires DP1 SW4 NPODM 4P DX XX NPP16 D EFP Power/Relay Pack, Occupancy Controlled Dimming, External Fault Protection. Low Voltage Push-Button Wallpod, 4-Pole, Raise/Lower Dimming Without Wires (OS1) Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Small Motion / Standard Range 360° Lens Power Pack For 120VAC and 277VAC Switching. OS2 OCCUPANCY SENSOR SENSOR SWITCH - LINE VOLTAGE DUAL LEVEL WSD PDT 2P. NCM PDT 10 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360° Lens PLUG LOAD NLIGHT 20PL OCCUPANCY SENSOR CAT 5 CONTROLLED SWITCH FOR PLUG LOAD

#12 SUPPORT WIRE TO GRID MEMBER - SEISMIC WIRE TYPICAL 2 #12 WITHIN 3 INCHES OF EACH CORNER WIRES ONE EACH END OF OF EACH FIXTURE TYPICAL 4 FIXTURE DIAGONALLY CORNERS. SEE STRUCTURAL DETAIL-OPPOSED, THESE MAY BE SLACK __ RECESSED LED FIXTURE WEIGHT 15.5 LBS. FOR 2' x 4', 9.6 FOR 2' x 2' / 1' x 4' #10 SMS SCREWS OR OTHER PROVIDE T-BAR HOLD-DOWN APPROVED METHOD OF CLIP AT EACH CORNER TYPICAL FASTENING TO BUILDING STRUCTURE. ALL LIGHTING FIXTURES SHALL BE SECURELY LIGHTING FIXTURES WEIGHING 56 POUNDS OR ATTACHED TO THE SUSPENDED CEILING SYSTEM. MORE SHALL BE SUPPORTED DIRECTLY FROM THE ATTACHMENT DEVICE SHALL HAVE A THE STRUCTURE ABOVE BY APPROVED HANGERS. CAPACITY OF 100 PERCENT OF THE LIGHT PENDANT MOUNTED LIGHTING FIXTURES SHALL BE FIXTURE WEIGHT ACTING IN ANY DIRECTION. SUPPORTED DIRECTLY FROM THE STRUCTURE WHEN INTERMEDIATE SYSTEMS ARE USED, #12 ABOVE USING 9 GAGE WIRE OR APPROVED GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE To LIGHTING DEVICES O LIGHTING DEVICES NOTE: ALL ELECTRICAL EQUIPMENT, WHERE HEAVY DUTY SYSTEMS ARE USED,

FIXTURE SCHEDULE NOTES:

SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF

A 48 INCH MODULAR HANGER PATTERN IS

MAIN RUNNER.

FOLLOWED, WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE

CONTRACTOR TO CONNECT AT LIGHTING CONTROL

PANEL - ARP IN ELECTRICAL ROOM TO THREE N.O./N.O

CONTACTS TO MECHANICAL SYSTEM CONTROLS (BMS)

CONTACTS FROM 3/4"C - 6#12 & 1#12 GROUND FROM

& PROGRAM PER CAMPUS M&O REQUIREMENTS.

MECHANICAL BMS PANEL TO ARP.

1. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.

CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA

CHARGE TO THE OWNER. 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.

4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT

CONDUIT, FIXTURES, ETC. SHALL BE

SECURELY FASTENED TO THE BUILDING

STRUCTURE AS PER CITY ORDINANCES.

FIXTURE TYPE QUANTITY

nLIGHT GATEWAY/BRIDGE SCHEMATIC (PROVIDE ALL EQUIPMENT & CONNECT)

nBRG8

☐ DEVICES

> TO LIGHTING

· IN ELECTRICAL ROOM

DEVICES

nBRG8 ——c5-

TO LIGHTING

TO FIRST FLOOR

LIGHTING DEVICES

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DIVISION OF THE STATE ARCHITECT

ARCHITECTS, INC. 28328 AGOURA ROAD, SUITE 203

AGOURA HILLS, CA 91301

(805) 530-3938 , (818) 874-0071

AMADOR WHITTLE

Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 **LUCCI & ASSOCIATES, INC.** reserve their commonlaw copyright

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

LIGHTING

FIXTURE SCHEDULE

nBRG8 C5 TO NEXT BRIDGE (TYPICAL) TO P9-1

>TO LIGHTING DEVICES

TO LIGHTING DEVICES

TO LIGHTING DEVICES

nBRG8 TO NEXT BRIDGE (TYPICAL) TO P3-1 TO P5-1

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

12/08/23

L.A.I.# 21-375

SHEET NUMBER

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY

nBRG8 🗕

PS150

ECLYPSE

PS150

nlight relay panel

ARP INTENC16

ARPA APS OL

(PHOTOCELL)

IN ELECTRICAL ROOM \rightarrow

→ 16SPR WITH

GFXK

ECLYPSE

nCEY

ENVEX Spec Ambient Option Value Ordering Restrictions ‡ Not available with networked or Stand Alone controls Not available with MIN10 Not available with DARK Not available with MiN10 or with networked or wired controls Not available with: MIN10 or MIN1 or with an networked or wired controls Not available with: E7W, E10WLCP, E15WLCP, SLD, GTD, GLR, GMF, ECO Not available with 7200LM. Not available with any controls. Must select MIN10. Leave Dimming section blank Not available with 347V Not available with 347V Not available with: 2X2 or 347V Not available with: 1500LM, 2000LM. Leave Dimming section blank. Must select a Networked Control Must select 120 OR 277, Not available with 347V or MVOLT Not available with DARK or MIN10. Leave Dimming section blank. Not available with STAND ALONE CONTROLS or SLD. Solutions with Integrated sensor will have a temporary extended lead time. Consult Factory. Not available with DARK or MIN10. Leave Dimming section blank. Not available with NETWORK CONTROLS or SLD. Solutions with integrated sensor will have a temporary extended lead time. Consult Factory. NLTAIR2 RES7, RES7PDT, RIO See UL924 Sequence of Operation chart on page 4. Can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options. Must select a Wireless Network Control Must select 120 or 277 Must select 120 or 277 WS1846 PWSLV, PWS1856LV Not available with nLight wired network or individual controls Field installable only on the 1X4 and 2X4 version of the ENVX Not available with ECO, DALI, SLD, RVTX8FOCC, NVTX8FOCC, VT8FOCC, VTX8FADC, VTX15FOCC or VTX15FADC Not available with NLIGHT wired network or individual controls, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV **UL924 Sequence of Operation** The below information applies to all nLight AIR devices with an EM option. • 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 secondsl. Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to *DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 24-3/4" (Tolerance is +1/8", -0"). 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. Accessories **Constant Lumen Management** Enabled by the embedded nLight control, the ENVX actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting. Accessories: Order as separate catalog number. Drywall grid adapter for 1x4 recessed fixture. Without Lumen Management With Lumen Management Drywall grid adapter for 2x2 recessed fixture. DGA24 Drywall grid adapter for 2x4 recessed fixture. ENVX TGRID CLIP J4 Pack of 4 grid clips for 9/16" T grid compatibility. ENVX TGRID CLIP J50 Pack of 50 grid clips for 9/16" T grid compatibility. PS1055LCP M5 Field installable, not available with 347V. See restriction note above. \$ 1X4SMKSHP PAF Multi-Use Surface Mount Kit 1X4 Post-Paint Wasted Energy 2X2SMKSHP PAF Multi-Use Surface Mount Kit 2x2 Post-Paint 2x4SMKSHP PAF Multi-Use Surface Mount Kit 2x4 Post-Paint **Emergency Battery Pack Options - Field Installable** Battery Model Number Wattage Runtime Lumen Output* @ 120 Lumens/Watt Storm Shelter/ 2-hour Runtime 10W 90 1200 Title 20, Self Diagnostic ILBLP CP15 HE SD A 15W 90 1800 Title 20, Self Diagnostic All the above are UL 924 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. Delivered emergency illumination of CP10 models outperforms legacy 1400 lumen fluorescent emergency ballasts. Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions COMMERCIAL INDOOR: One Lithonia Way. Conyers, GA 30012 Phone: 800-705-SERV (7378) www.acuitybrands.com 2020-2023 Acuity Brands Lighting, Inc. All rights reserved. Rev. 02/07/23 **ENVEX** Spec Ambient **Catalog Number** ENVX 1X4 HRG 1500LM 80CRI 35 ENVX 1X4 HRG 1500LM 90CRI 35 ENVX 1X4 HRG 2000LM 80CRI 35K ENVX 1X4 HRG 2000LM 90CRI 35 ENVX 1X4 HRG 3000LM 80CRI 35 ENVX 1X4 HRG 3000LM 90CRI 35 **ENVX 1X4 HRG 4000LM 80CRI 35** ENVX 1X4 HRG:4000LM 90CRI 35K **ENVX 1X4 HRG 4800LM 80CRI 35K** ENVX 1X4 HRG 4800LM 90CRI 35K ENVX 1X4 HRG 6000LM 80CRI 35K ENVX 1X4 HRG 6000LM 90CRI 35K **ENVX 1X4 HRGC 1500LM 80CRI 35K**

ENVX 1X4 HRGC 1500LM 90CRI 35K

ENVX 1X4 HRGC 2000LM 80CRI 35K

ENVX 1X4 HRGC 2000LM 90CRI 35K

ENVX 1X4 HRGC 3000LM 80CRI 35K

ENVX 1X4 HRGC 3000LM 90CRI 35K ENVX 1X4 HRGC 4000LM 80CRI 35K **ENVX 1X4 HRGC 4000LM 90CRI 35K** ENVX 1X4 HRGC 4800LM 80CRI 35K

ENVX 1X4 HRGC 4800LM 90CRI 35K

ENVX 1X4 HRGC 6000LM 80CRI 35

ENVX 1X4 HRGC 6000LM 90CRI 35K

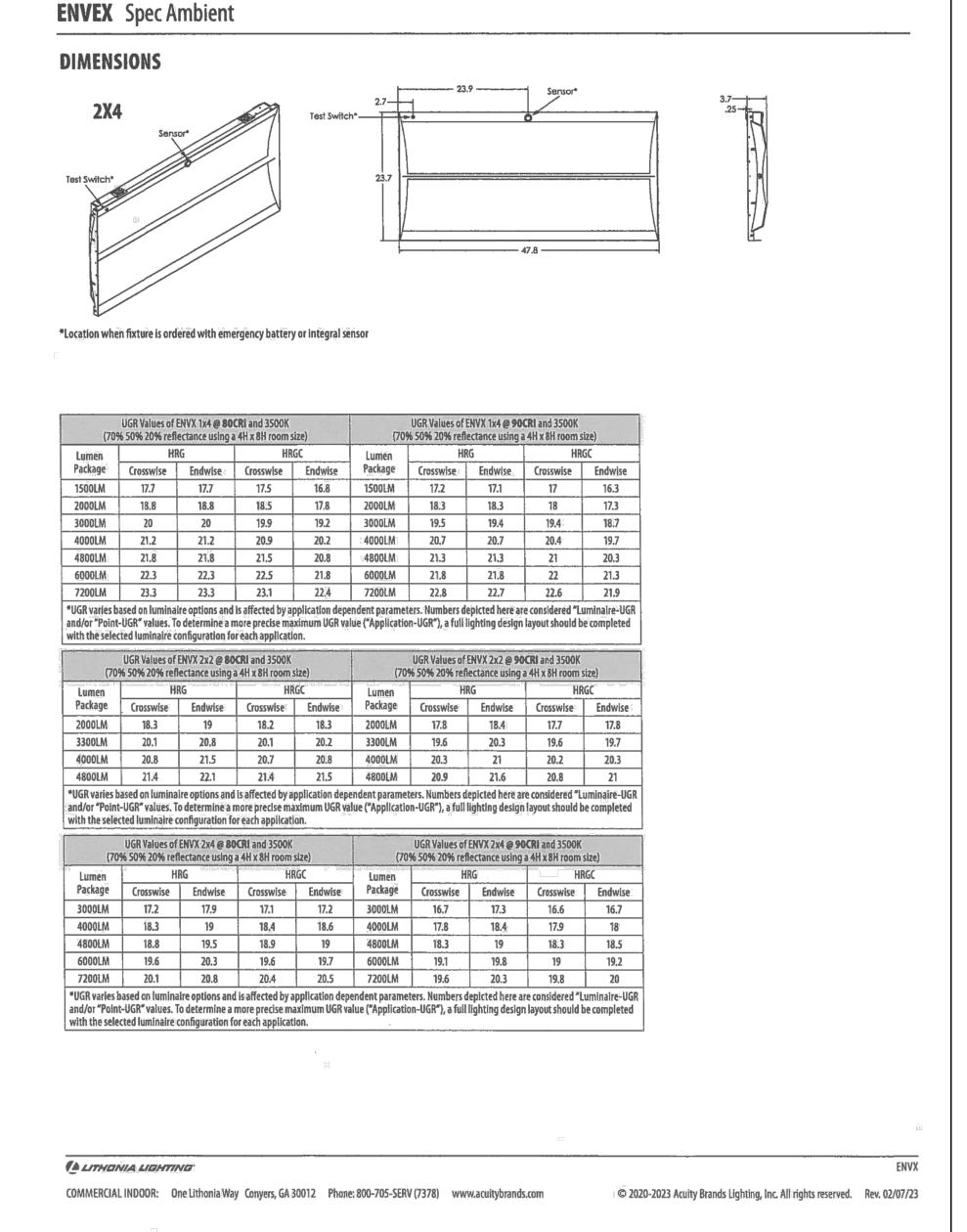
ENVX 1X4 HRG 7200LM 80CRI 35K

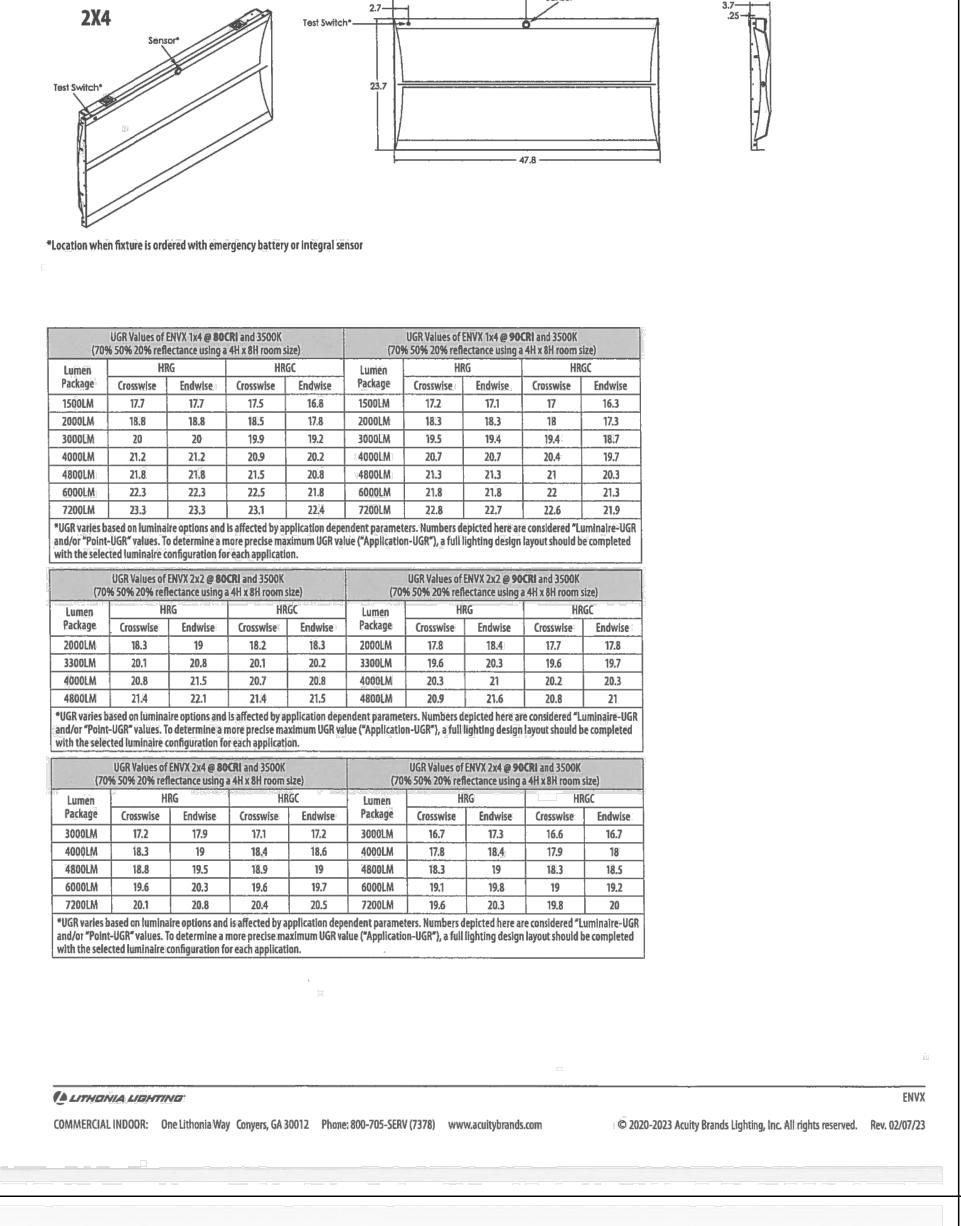
ENVX 1X4 HRG 7200LM 90CRI 35K ENVX 1X4 HRGC 7200LM 80CRI 35K ENVX 1X4 HRGC 7200LM 90CRI 35K ENVX 2X2 HRG 2000LM 80CRI 35K

ENVX 2X2 HRG 2000LM 90CRI 35K

ENVX 2X2 HRG 3300LM 80CRI 35K

ENVX 2X2 HRG 3300LM 90CRI 35K





2000LM Nominal 2000 lumens

3000LM Nominal 3000 lumens

4000LM Nominal 4000 lumens

4800LM Nominal 4800 lumens

6000LM Nominal 6000 lumens

7200LM Nominal 7200 lumens

2000LM Nominal 2000 lumens

3300LM Nominal 3300 lumens

4000LM Nominal 4000 lumens

4800LM Nominal 4800 lumens

3000LM Nominal 3000 lumens

4000LM Nominal 4000 lumens

4800LM Nominal 4800 lumens

6000LM Nominal 6000 lumens

7200LM Nominal 7200 lumens

nLight no constant lument management

technology integral occupancy sensor

nLight 80% constant lumen management

dual technology integral occupancy sensor

CL80 NES7PDT7ADCX nLight 80% constant lumen management, nLight nES PDT 7

integral occupancy sensor

integral occupancy sensor

dimming photocell

6' pre-wire, 18 gauge, 3/8" dia., 3 wire - 1 circui

6' pre-wire, 18 gauge, 3/8" dia., 4 wire - 2 circuit Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter

6 pre-wire, 18 gauge, 3/8" dia., 5 wire - 1 circuit

nLight no constant lumen management, nLight nES7 PIR

nLight no constant lumen management, nLight nES PDT 7 dual

nLight no constant lumen management, nLight nES7 ADCX PIR Integral occupancy sensor with automatic dimming photocell

nLight no constant lumen management, nLight nES PDT 7

dual technology integral occupancy sensor with automatic dimming photocell

nLight 80% constant lumen management, nLight nES7 PIR

nLight 80% constant lumen management, nLight nES PDT 7

integral occupancy sensor with automatic dimming photocell

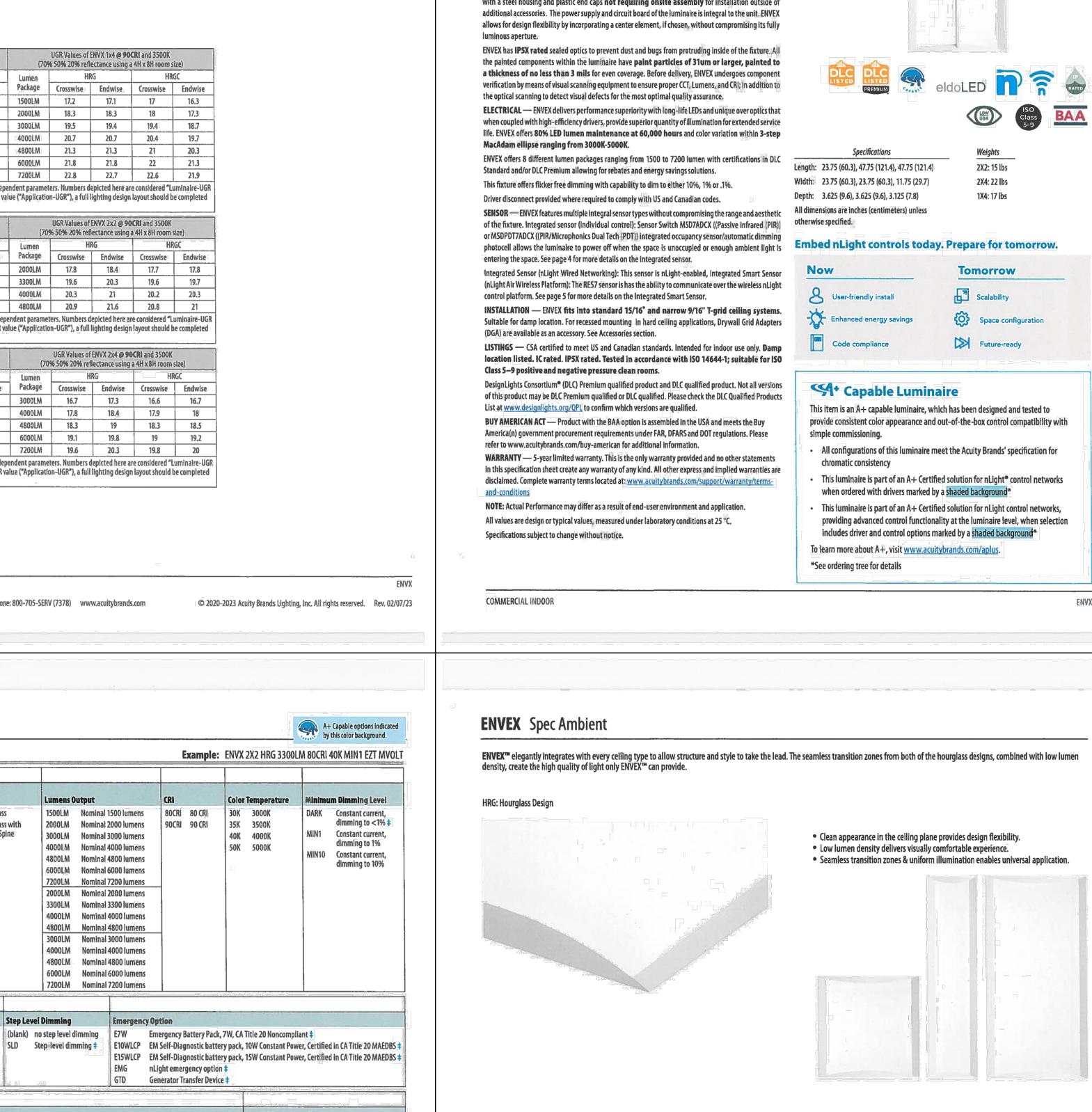
CP Chicago plenum approved ‡

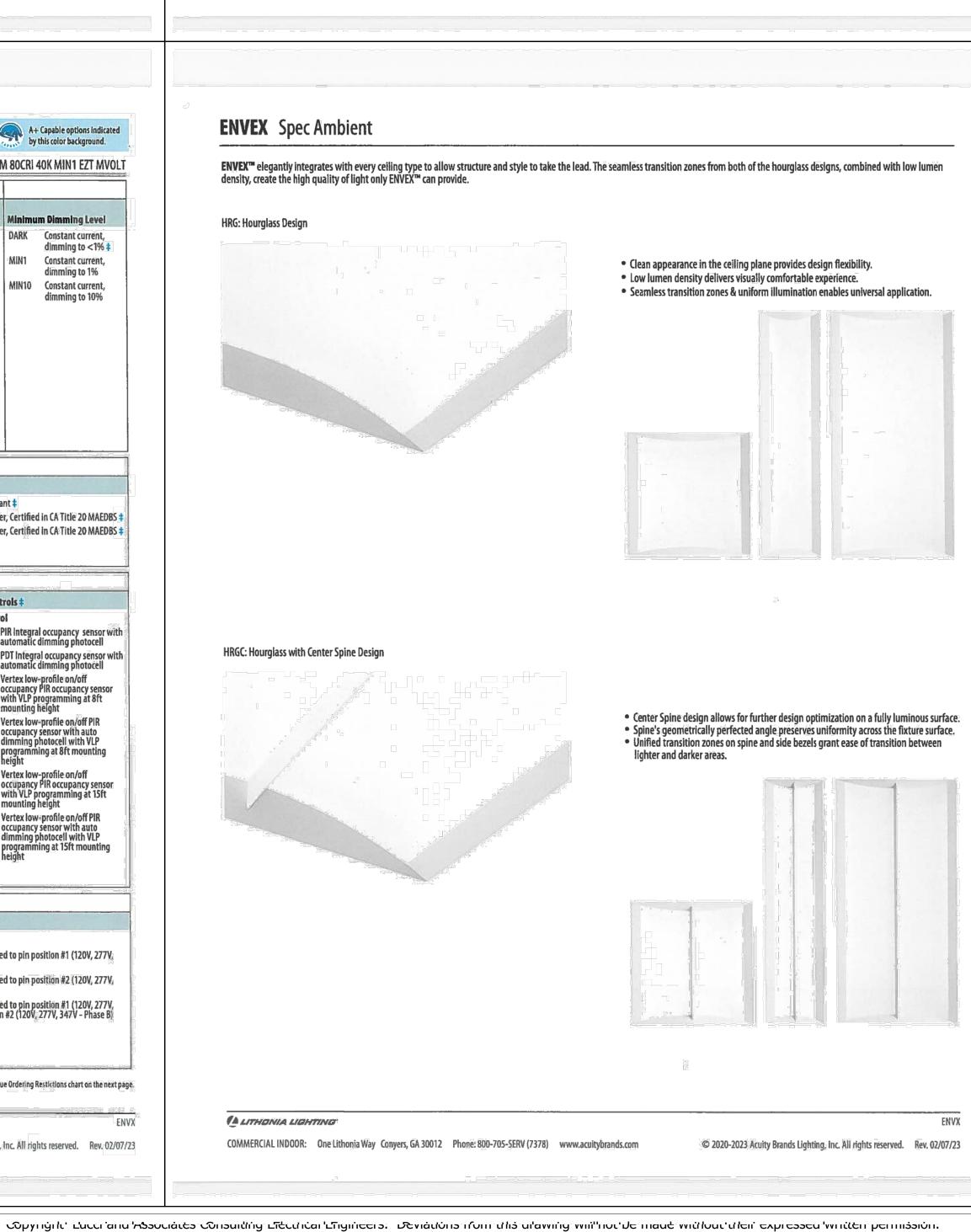
BAA Buy America(n) Act Compliant

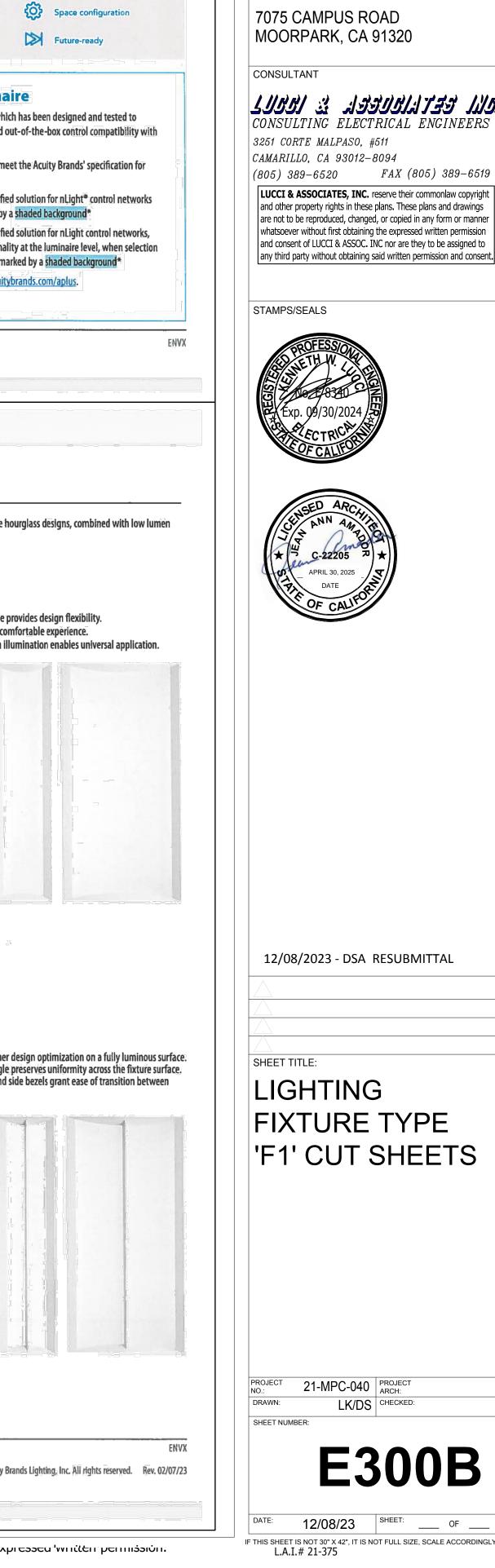
80% constant lumen management, nLight nES7 ADCX PIR

nLight enabled, Vertex low-profile on/off occupancy PIR

SLD Step-level dimming ‡







LK/DS CHECKED:

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REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

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Ventura County Community College

MOORPARK COLLEGE

BUILDING RENOVATION

ADMINISTRATION

PROJECT TITLE

APP: 03-123218 INC:

12/08/23

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FEATURES & SPECIFICATIONS INTENDED USE — ENVEX is a high-performance recessed ambient solution suitable for all application types. Designed to improve quality of light, ENVEX provides performance, configurability, delivery, value and style, A typically configured ENVEX features a Unified Glare Rating (UGR) starting at 17, UGR data available on page 9.. Both designs, Hourglass and Hourglass with Center Spine, are created to elevate the

LITHONIA LIGHTING Catalog Number

Ordering Tree nLight Platform Controls Photometrics Performance Data

space with a unique, undisruptive, calm and soothing illumination. Its 5-day lead time and entire North American manufacturing permit for all consumers of ENVEX to have the quality, delivery and reliability they deserve. Certain airborne contaminants can diminish the integrity of acrylic and/or

polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses. CONSTRUCTION — ENVEX is engineered to have a curved luminous surface to reduce glare while increasing its volumetric class. Its smooth acrylic lens, and direct-lit over optic technology, allow for no individual LED images to be visible to the occupants in the space. ENVEX seamless transition zones permit for the uniform illumination across the lens to be visually comfortable to look into. Built with non-exposed corners and seamless flanges within the T-Grid, ENVEX is a single, self-contained fixture with a steel housing and plastic end caps not requiring onsite assembly for installation outside of

ENVEX Series LED

ENVEXTM

1'x4' LED, 2'x2" LED and 2'x4' LED

	Performance Data		
Catalog Number	Delivered Lumens	input Watts	Lume
ENVX 2X2 HRG 4000LM 80CRI 35K	4112	36	113
ENVX 2X2 HRG 4000LM 90CRI 35K	3547	36	98
ENVX 2X2 HRG 4800LM 80CRI 35K	4943	45	10
ENVX 2X2 HRG 4800LM 90CRI 35K	4264	£ 4 5	94
ENVX 2X2 HRGC 2000LM 80CRI 358	(1914	17	110
ENVX 2X2 HRGC 2000LM 90CRI 35H	1651	17	95
ENVX 2X2 HRGC 3300LM 80CRI 35F	3319	30	111
ENVX 2X2 HRGC 3300LM 90CRI 35F	2863	30	95
ENVX 2X2 HRGC 4000LM 80CRI 35I	3946	36	10
ENVX 2X2 HRGC 4000LM 90CRI 35I	3404	36	94
ENVX 2X2 HRGC 4800LM 80CRI 35I	4766	45	10
ENVX 2X2 HRGC 4800LM 90CRI 351	(4111	45	91
ENVX 2X4 HRG 3000LM 80CRI 35K	2933	23	12
ENVX 2X4 HRG 3000LM 90CRI 35K	2530	23	10
ENVX 2X4 HRG 4000LM 80CRI 35K	4036	33	12
ENVX 2X4 HRG 4000LM 90CRI 35K	3481	33	10
ENVX 2X4 HRG 4800LM 80CRI 35K	4748	40	= 11
ENVX 2X4 HRG 4800LM 90CRI 35K	4096	40	10
ENVX 2X4 HRG 6000LM 80CRI 35K	5908	50	11
ENVX 2X4 HRG 6000LM 90CRI 35K	5097	50	10
ENVX 2X4 HRG 7200LM 80CRI 35K	6831	58	11
ENVX 2X4 HRG 7200LM 90CRI 35K	5893	58	10
ENVX 2X4 HRGC 3000LM 80CRI 35	K 2834	23	12
ENVX 2X4 HRGC 3000LM 90CRI 35	K 2445	23	10
ENVX 2X4 HRGC 4000LM 80CRI 35	K 4168	36	11
ENVX 2X4 HRGC 4000LM 90CRI 35	K 3596	36	10
ENVX 2X4 HRGC 4800LM 80CRI 35	K 4693	41	11
ENVX 2X4 HRGC 4800LM 90CRI 35	K 4049	41	10
ENVX 2X4 HRGC 6000LM 80CRI 35	K 5739	51	11
ENVX 2X4 HRGC 6000LM-90CRI 35	K 4951	51	9
ENVX 2X4 HRGC 7200LM 80CRI 35	K 7223	64	11

nergency Battery Estimated Lumens Use the formula below to estimate the delivered lumens in emergency mode Estimated Lumens = 1.25 x P x LPW P = Output power of emergency driver (10W LPW = Lumen per watt rating of the luminaire.

LIGHT OUTPUT

A LITHONIA LIGHTING COMMERCIAL INDOOR: One Lithonia Way. Conyers, GA 30012 Phone: 800-705-SERV (7378) www.acuitybrands.com

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COMMERCIAL INDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.acuitybrands.com

ENVEX Spec Ambient

2x2 2'x2

MVOLT MVOLT,

120 120V

277 277V

nLight AIR Generation 2 enabled,

radio module without sensor #

nLight AIR Generation 2 enabled,

integral occupancy sensor with

automatic dimming photocell for

nLight AIR Generation 2 enabled,

occupancy sensor with automatic

PWS1846 PWSLV

occupancy PIR occupancy sensor \$ CL80 NES7

dimming photocell #

NLTAIR2 RVTX8FOCC nlight AIR Generation 2 enabled, Vertex low-profile on/off

347 347V **‡**

120-277V

RDERING INFORMATION

ENVX Spec Ambient

ZT Generic 0-10V #

NLTAIR2 RIO

Standby Mode

NOC NOC Occupancy

sensor disabled ‡

LITHONIA LIGHTING

ECO Lutron Ecosystem Interface ‡

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Individual control

RRLA RELOC*-Ready Luminaire (RRL) connectors. Driver wired to pin position #1 (120V, 277V, 347V - Phase A)

RRLAB RELOC* Ready Luminaire (RRL) connectors. Driver wired to pin position #2 (120V, 277V, 347V Phase A)

NOTE: \$ Indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart on the next page.

RELOC* Ready Luminaire (RRL) connectors. Driver wired to pin position #1 (120V, 277V, 347V - Phase A). Emergency driver wired to pin postion #2 (120V, 277V, 347V - Phase B)

MSD7ADCX PIR Integral occupancy sensor with automatic dimming photocell

MSDPDT7ADCX PDT Integral occupancy sensor with automatic dimming photocell

Vertex low-profile on/off

occupancy PIR occupancy senso with VLP programming at 8ft

Vertex low-profile on/off PIR

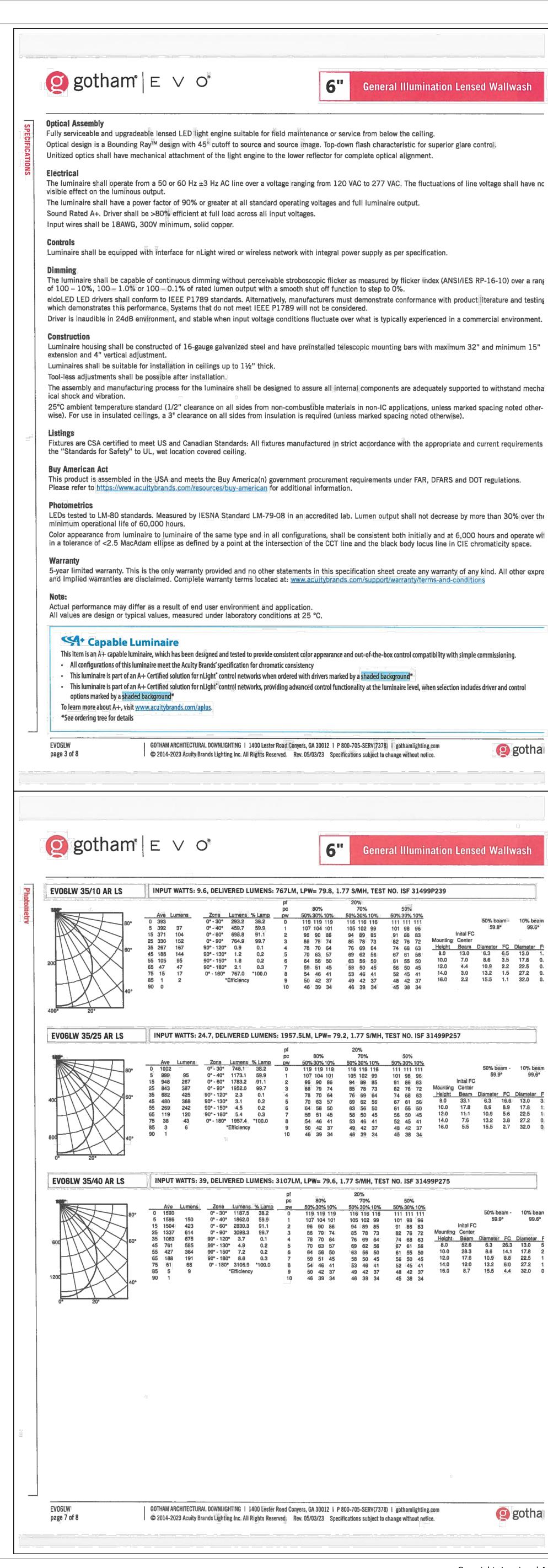
programming at 8ft mounting height

occupancy PIR occupancy sensor with VLP programming at 15ft

Vertex low-profile on/off PIR

occupancy sensor with auto dimming photocell with VLP

Vertex low-profile on/off

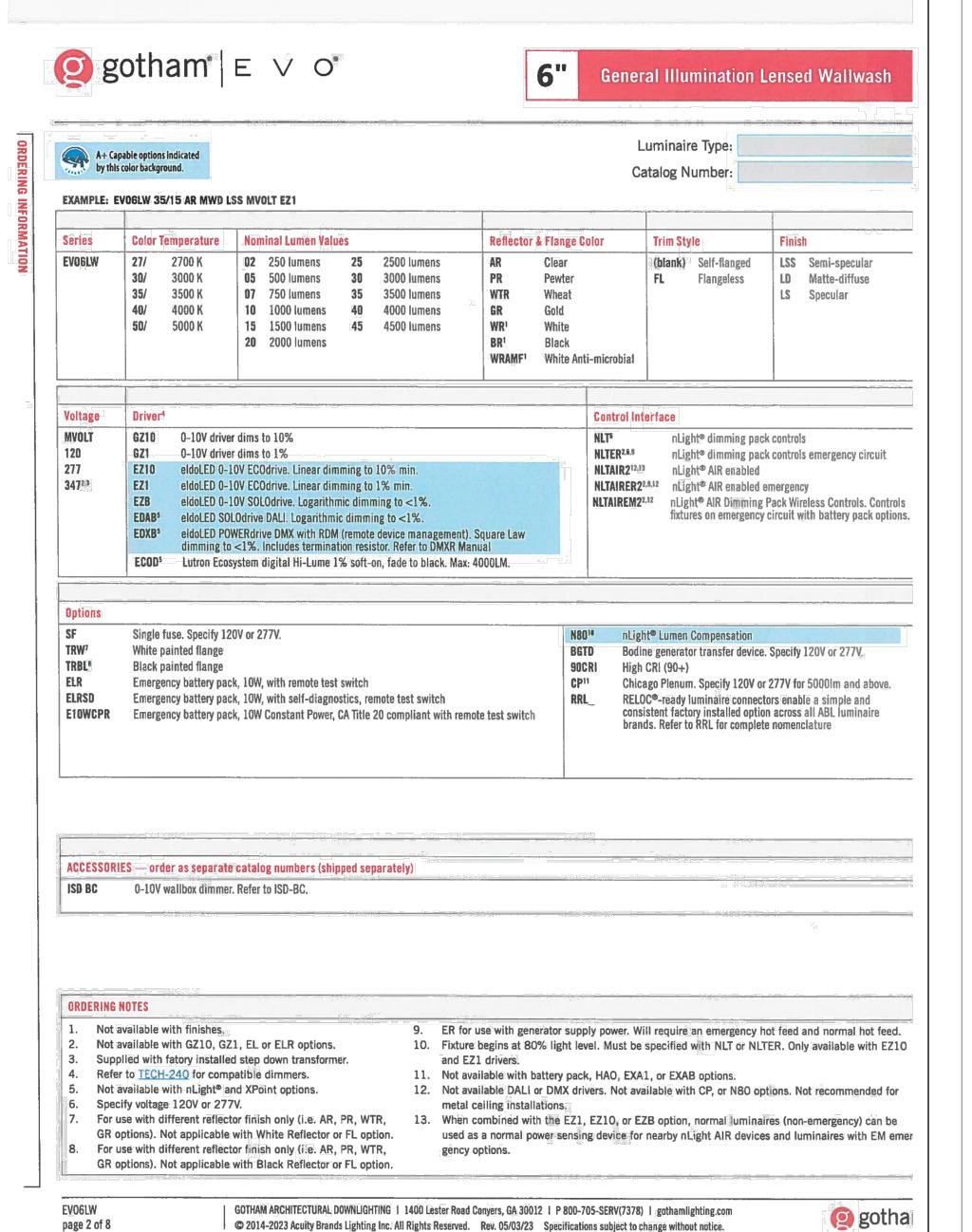


50% beam 10% beam

50% beam - 10% beam

gotha







DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY

21-MPC-040 PROJECT

SHEET NUMBER:

L.A.I.# 21-375

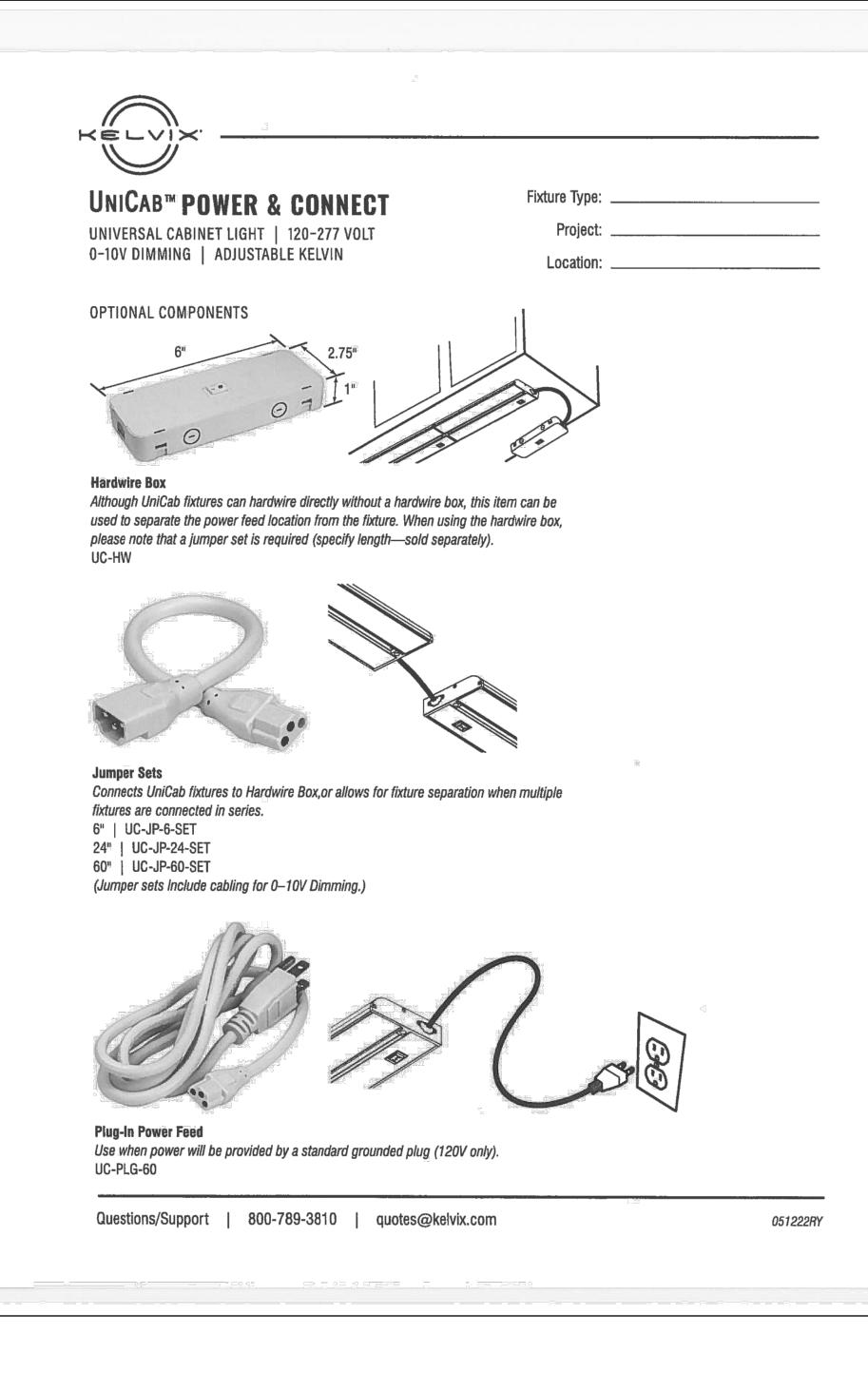
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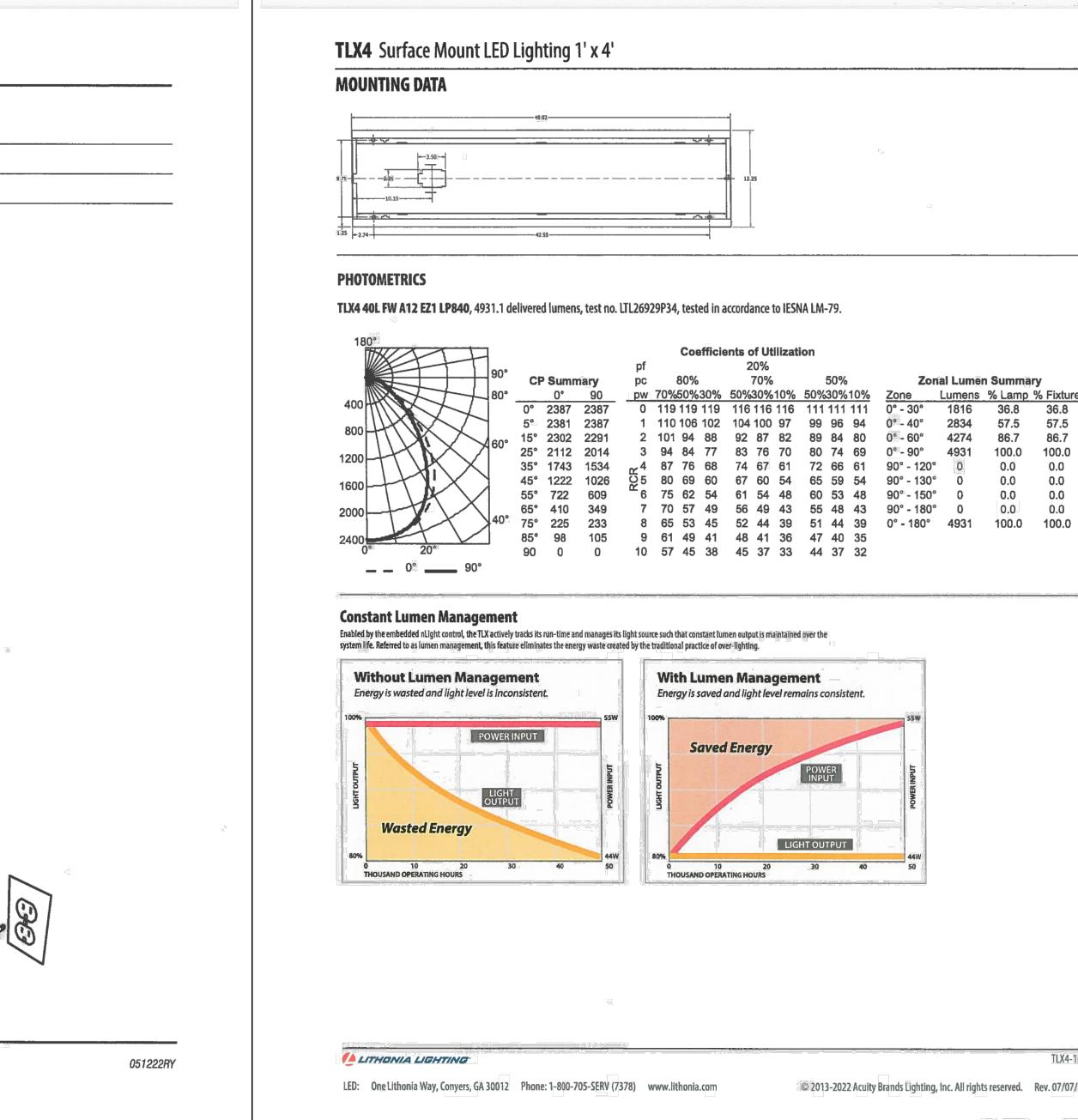
LIGHTING

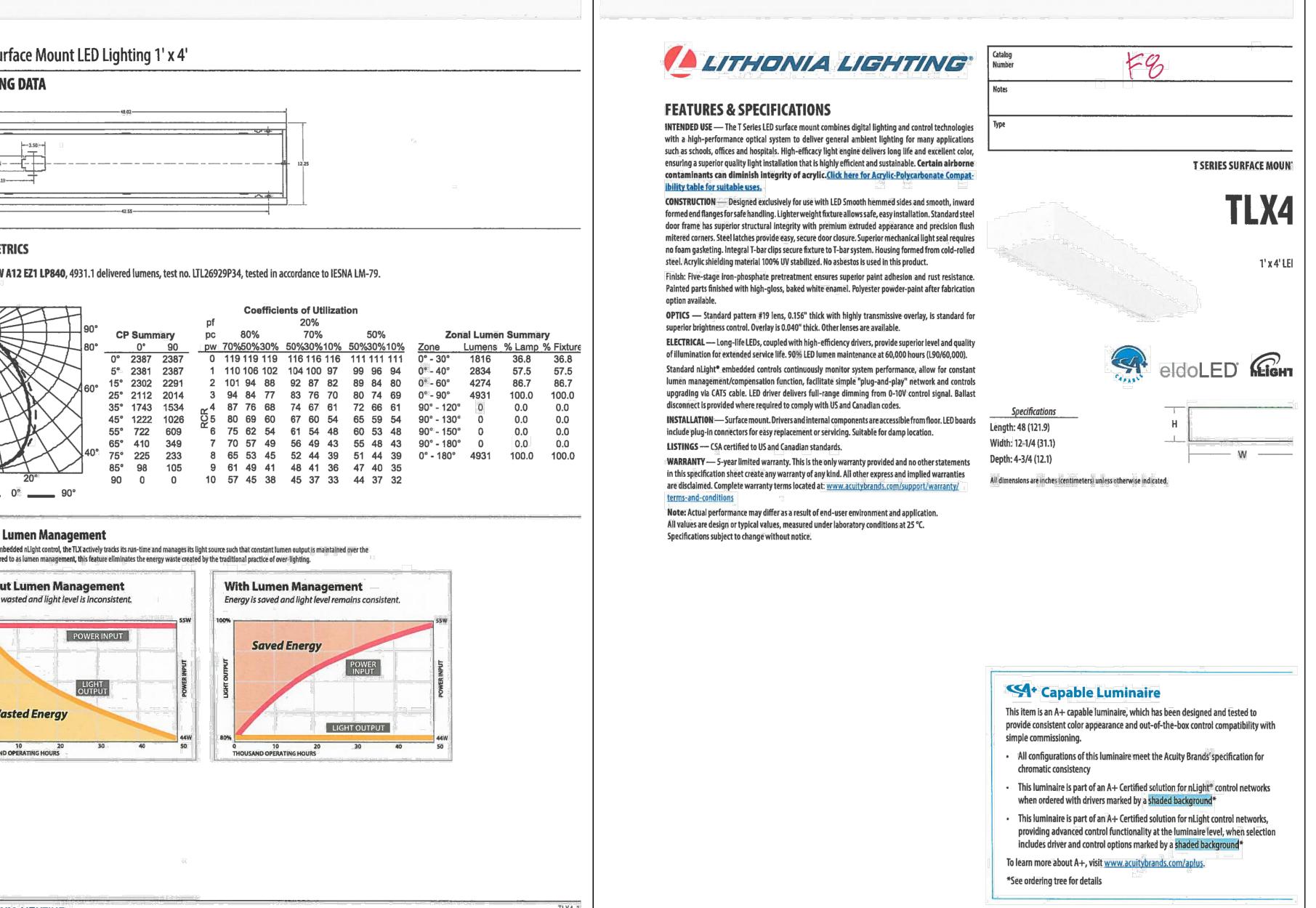
FIXTURE TYPE

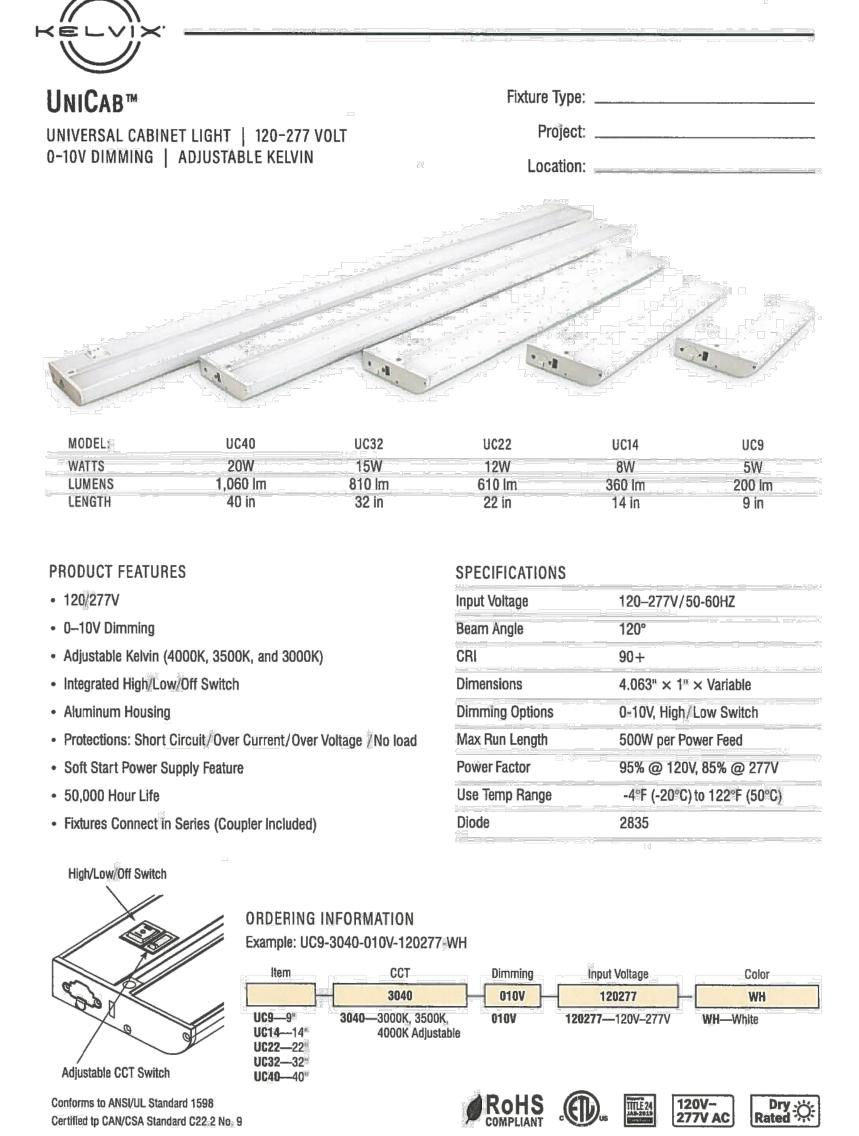
'F4' CUT SHEETS



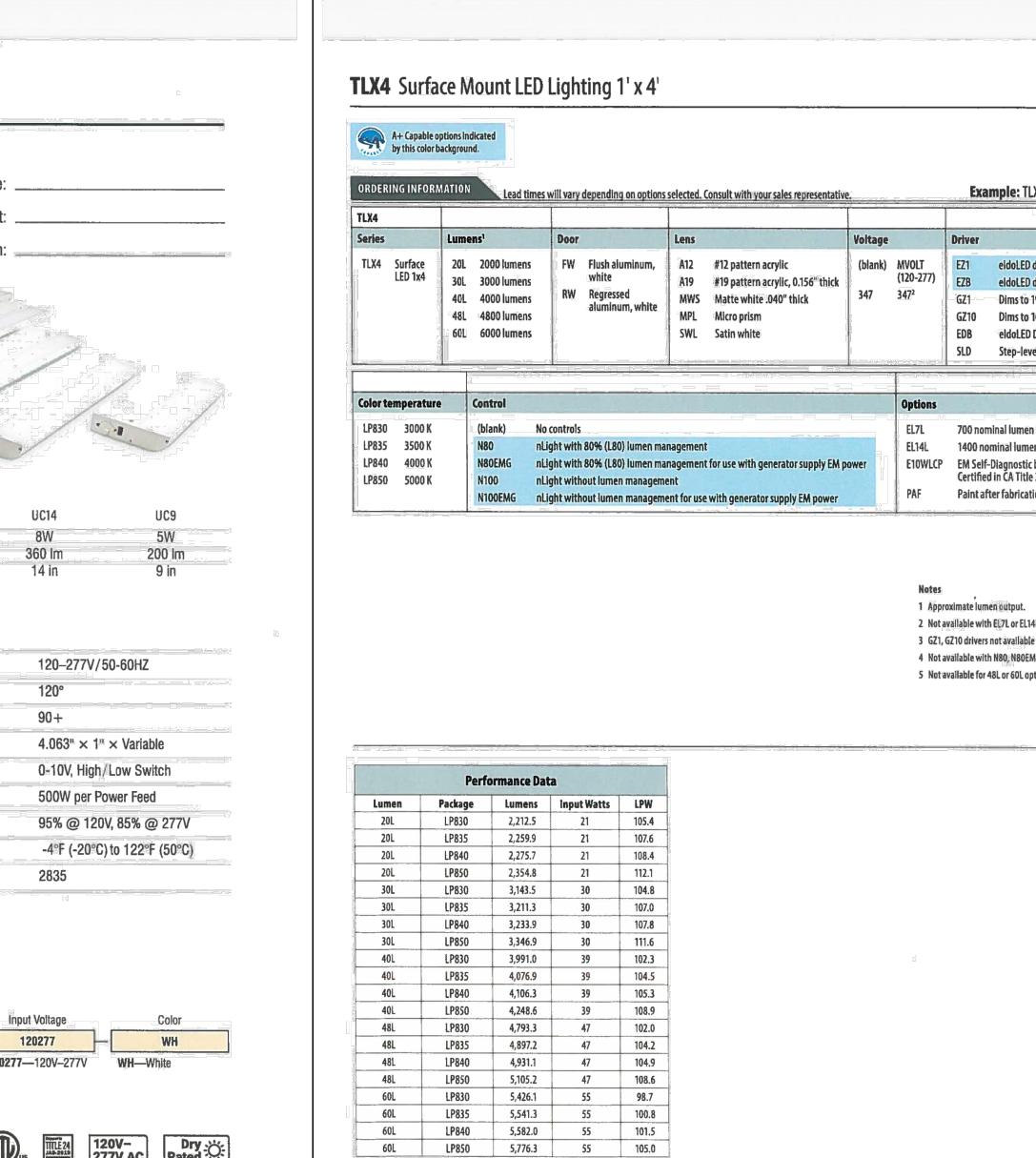






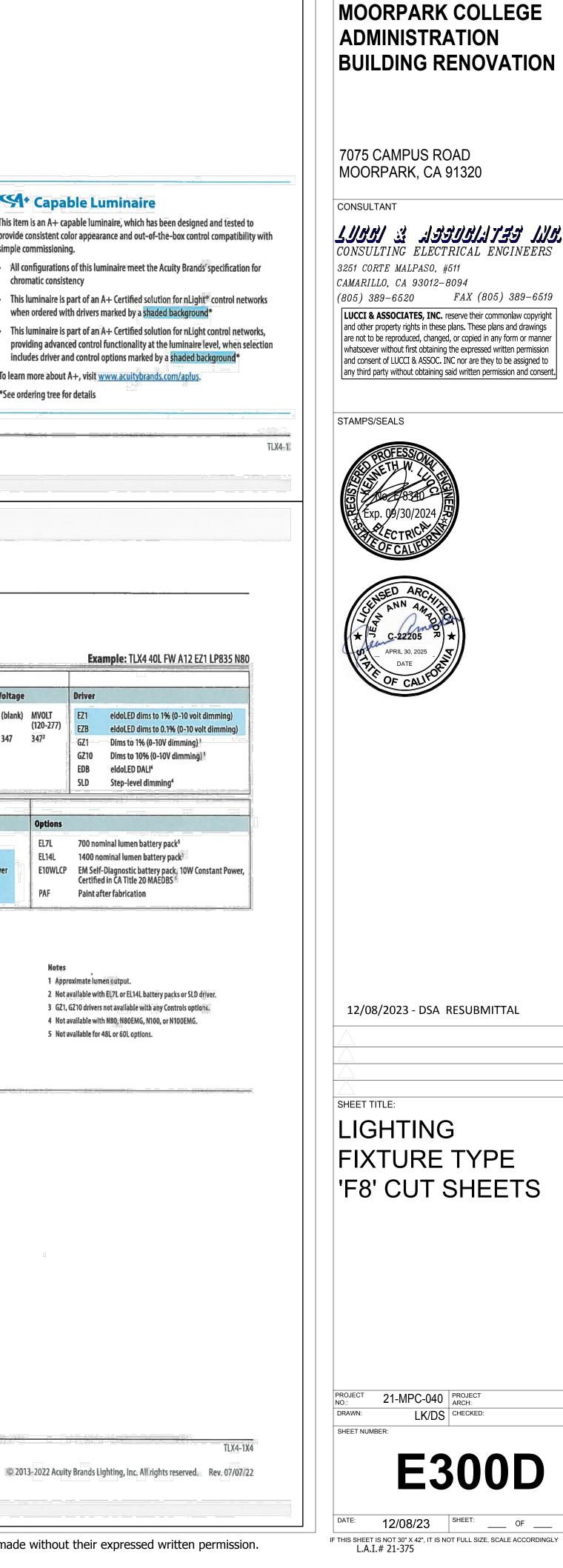


Questions/Support | 800-789-3810 | quotes@kelvix.com



LITHONIA LIGHTING

051222RY



21-MPC-040 PROJECT ARCH: LK/DS CHECKED: E300D 12/08/23 SHEET: ____ OF ____

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

AMADOR WHITTLE

ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203

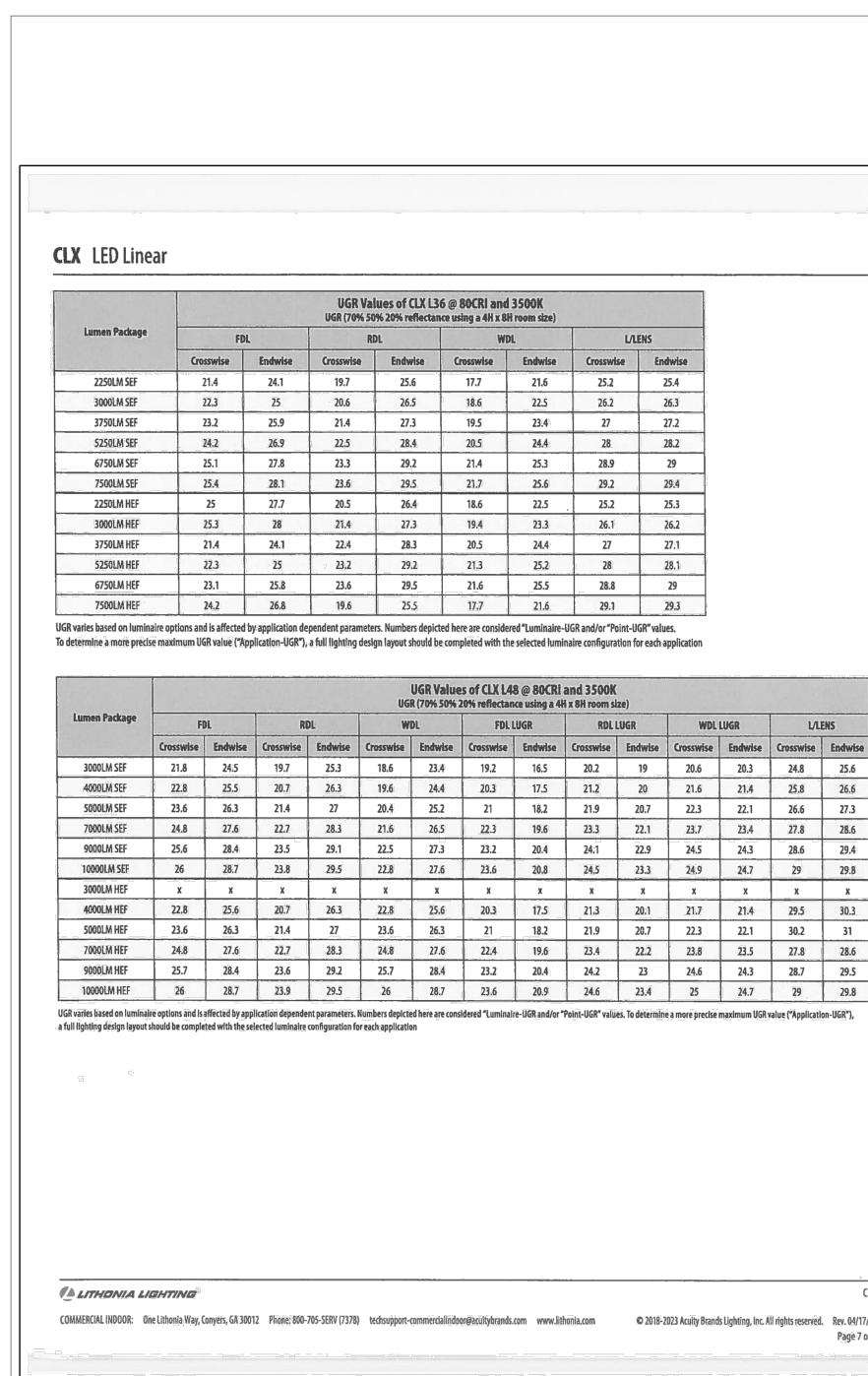
AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

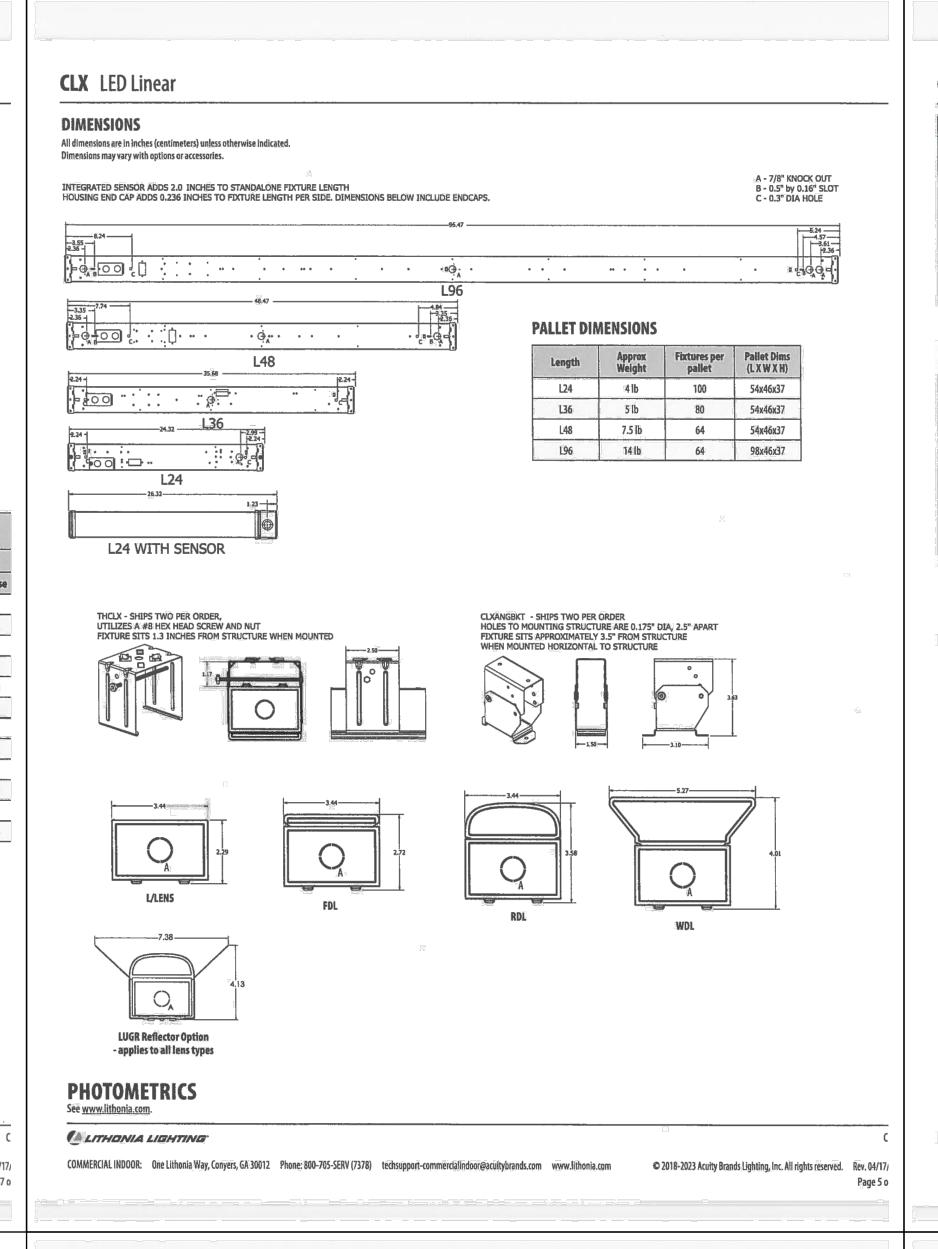
Ventura County Community College

PROJECT TITLE

APP: 03-123218 INC:

LED: One Lithonia Way, Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com





CLX LED Linear

PS1050 Factory installable

E10WLCP Factory installable

CLX CHARACTERISTICS

POWER SENTRY EMERGENCY BATTERY PACKS

Note: For wattage by configuration, please reference the CLX Operational Data Document.

a full lighting design layout should be completed with the selected luminaire configuration for each application

/A LITHONIA LIGHTING

PS1555LCP Field installable, remote mount only

SEF Emergency Lumens | HEF Emergency Lumen

1500

2100

2500LM 24" 18.4 18.4 24.0 24.0 17.4 17.4 23.1 23.1 24 3.5 3.75 1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID

5000LM 24" 41.5 41.5 47.4 47.4 38.1 38.1 44.1 44.1 24 3.5 3.75 2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID

3750LM 36" 26.5 26.5 32.1 32.1 25.1 25.1 30.7 30.7 36 3.5 3.75 1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID

7500LM 36" 62.6 62.6 68.6 68.6 54.0 54.0 59.7 59.7 36 3.5 3.75 2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID

5000LM | 48" | 31.8 | 31.8 | 37.2 | 37.2 | 31.8 | 31.8 | 37.6 | 37.6 | 48 | 3.5 | 3.75 | 2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID

10000LM 48" 70.7 70.7 76.2 76.2 65.3 65.3 70.8 70.8 48 3.5 3.75 3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID 10000LM 96" 63.7 63.7 69.0 69.0 63.7 63.7 69.5 69.5 96 3.5 3.75 3-lamp 32WT8, 2-lamp 54W T5H0, 100W HID

20000LM 96" 141.3 141.3 146.8 146.8 130.5 130.5 136.1 136.1 96 3.5 3.75 6-lamp 32WT8, 4-lamp 54WT5H0, 200W HID

UGR Values of CLX L24 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)

22.3 24.9 20.5 26.3 18.6 22.3 17.9 15.1 18.8 17.6 19.2 18.9 26.1 26.2

25.4 | 28 | 23.6 | 29.4 | 21.7 | 25.4 | 20.7 | 17.9 | 21.7 | 20.5 | 22 | 21.8 | 29.2 | 29.3

25.6 28.2 23.3 29.1 21.4 25.1 21 18.3 21.5 20.3 21.8 21.5 29.4 29.5

21.1 23.7 19.3 25.1 21.8 25.5 16.5 13.7 17.6 16.3 17.8 17.6 24.9 25

22.2 24.8 20.4 26.2 17.4 21.1 17.6 14.8 18.6 17.4 18.8 18.6 26 26.2

 24.1
 26.7
 22.3
 28.1
 19.3
 23
 19.8
 17
 20.9
 19.7
 21.1
 20.9
 27.9
 28

21.3 | 27.1 | 19.4 | 23.1 | 18.6 | 15.8 | 19.6 | 18.4 | 19.9 | 19.7 | 26.9 | 27

1500LM SEF 21.2 23.8 19.4 25.2 17.4 21.1 16.8 14 17.8 16.6 18.1 17.9 24.9 25.1

3500LM SEF 24.1 26.7 22.3 28.1 20.4 24.1 19.7 16.9 20.7 19.5 21 20.8 27.9 28.1

2500LM HEF 23 25.7 21.3 27 18.5 22.2 18.4 15.6 19.4 18.2 19.7 19.4 26.8 27

4500LM HEF | 25.3 | 27.9 | 23.5 | 29.3 | 20.4 | 24.1 | 20.8 | 18 | 21.8 | 20.6 | 22.1 | 21.8 | 29.1 | 29.3

5000LM HEF 25.5 28.1 23.7 29.5 21.6 25.3 21.1 18.3 22.1 20.9 22.3 22.1 29.3 29.5

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").

COMMERCIAL INDOOR: One Lithonia Way, Convers, GA 30012 Phone: 800-705-SERV (7378) techsupport-commercial indoor acuity brands.com www.lithonia.com www.lithonia.com

Comparable Light Source

WDL LUGR

L/LENS

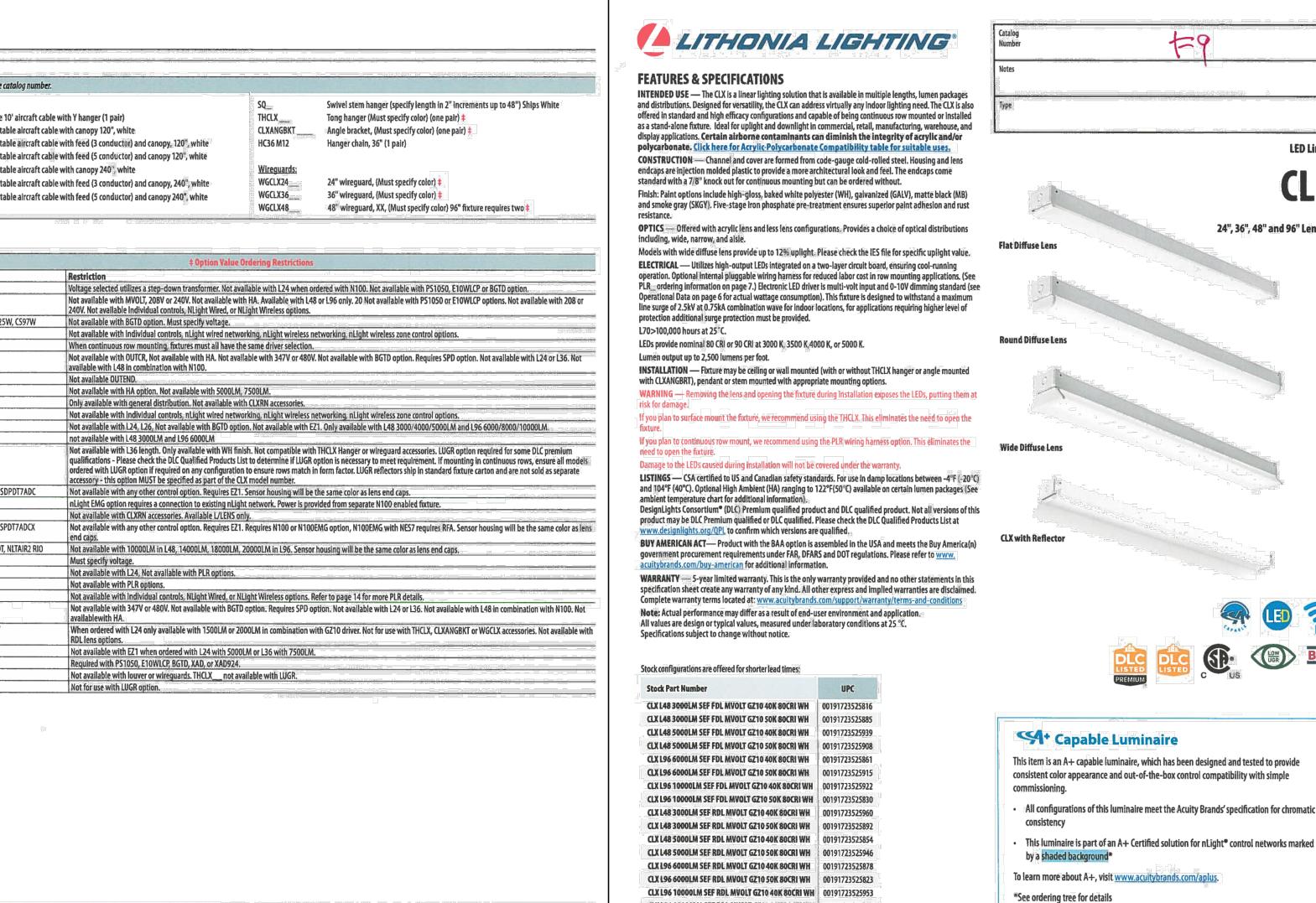
A LITHONIA LIGHTING

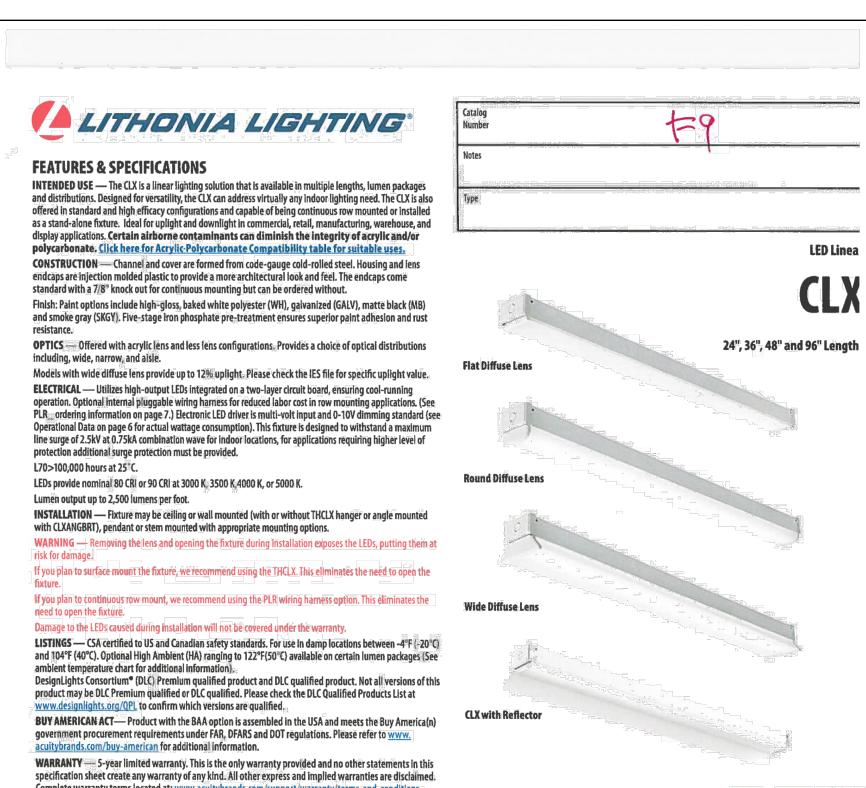
1400

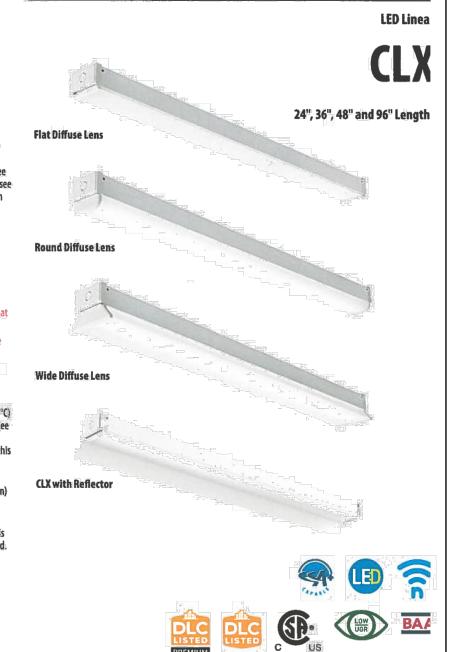
2000

Note: For emergency lumin output of specific model, please consult factory. One board will be illuminated during emergency operation.











7075 CAMPUS ROAD

MOORPARK, CA 91320

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

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ARCHITECTS, INC.

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AGOURA HILLS, CA 91301

(805) 530-3938 , (818) 874-0071

Ventura County Community College

MOORPARK COLLEGE

BUILDING RENOVATION

ADMINISTRATION

PROJECT TITLE

APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

STAMPS/SEALS

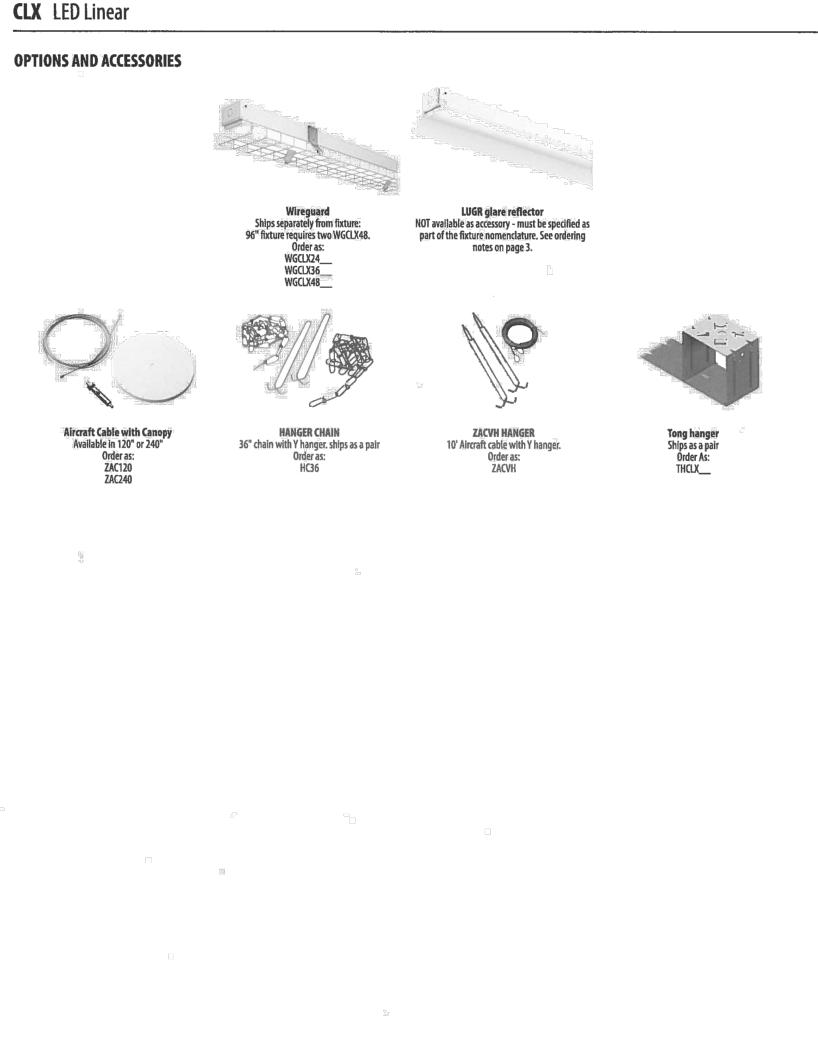




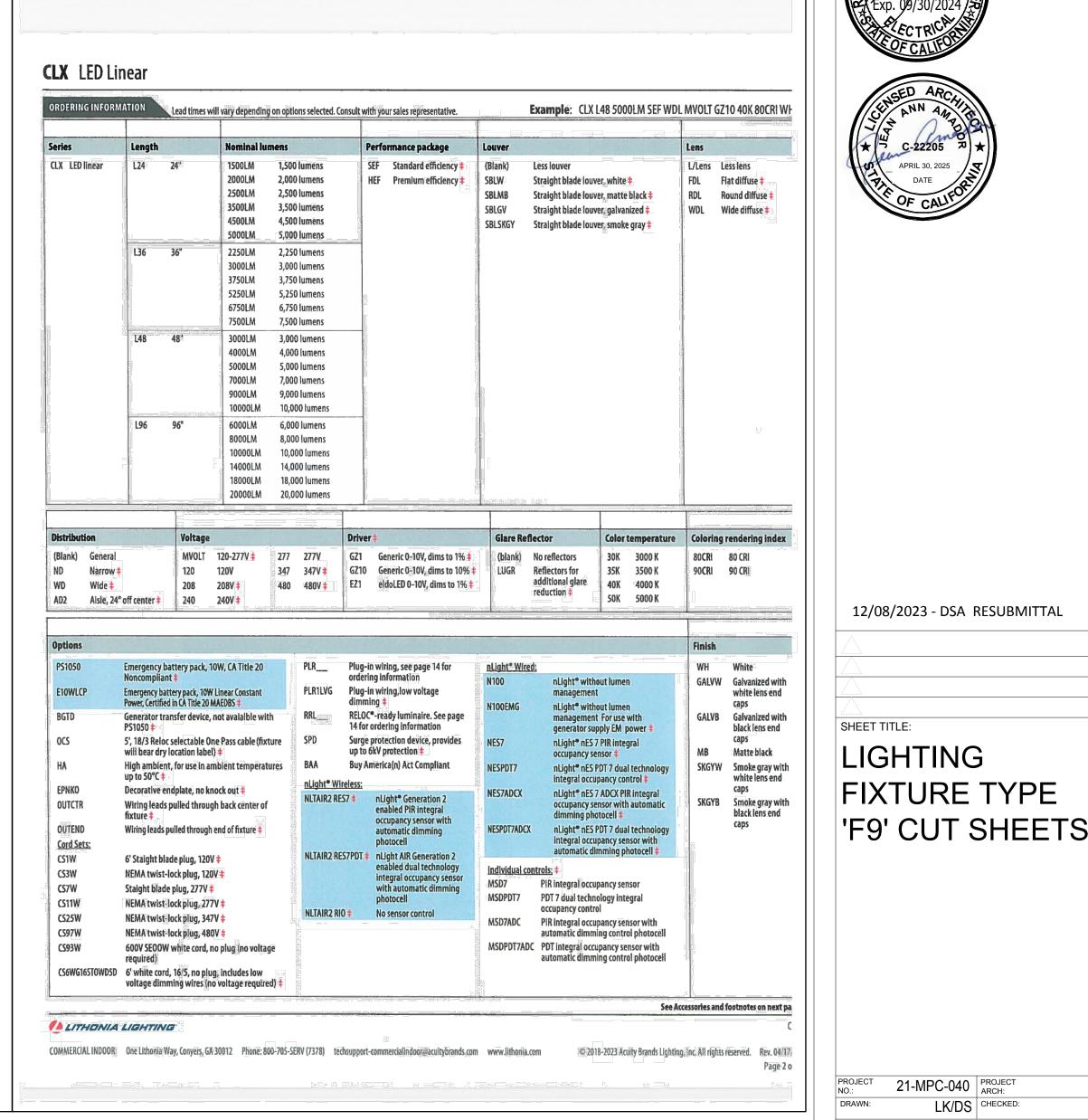
12/08/2023 - DSA RESUBMITTAL

SHEET TITLE: LIGHTING FIXTURE TYPE

21-MPC-040 PROJECT LK/DS CHECKED:



COMMERCIAL INDOOR: One Lithonia Way, Conyers, GA 30012 Phone: 800-705-SERV (7378) techsupport-commercial indoor@acuitybrands.com www.lithonia.com © 2018-2023 Acuity Brands Lighting, Inc. All rights reserved. Rev. 04/17/



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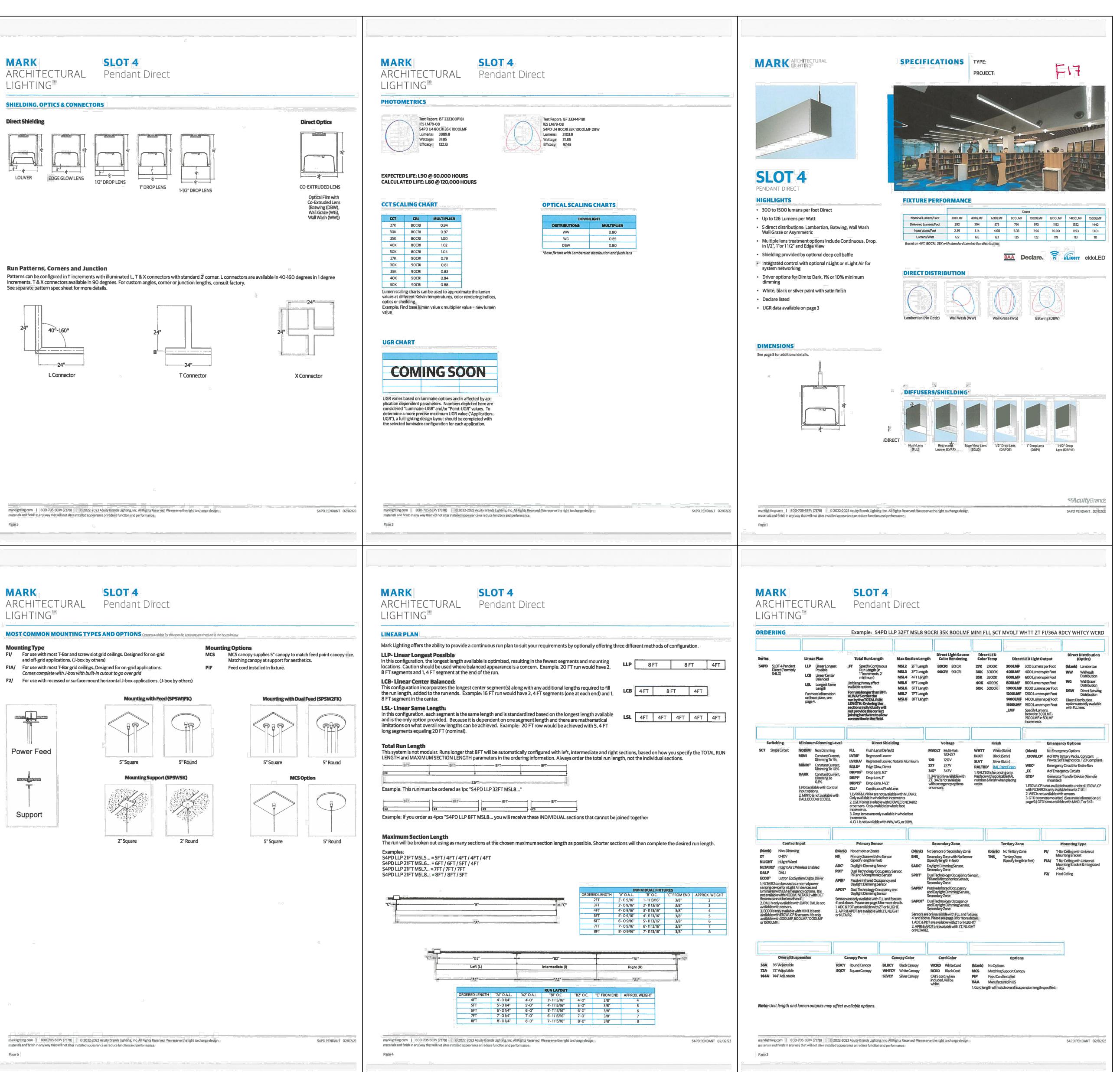
CLX L96 10000LM SEF RDL MVOLT GZ10 SOK 80CRI WH 00191723525847

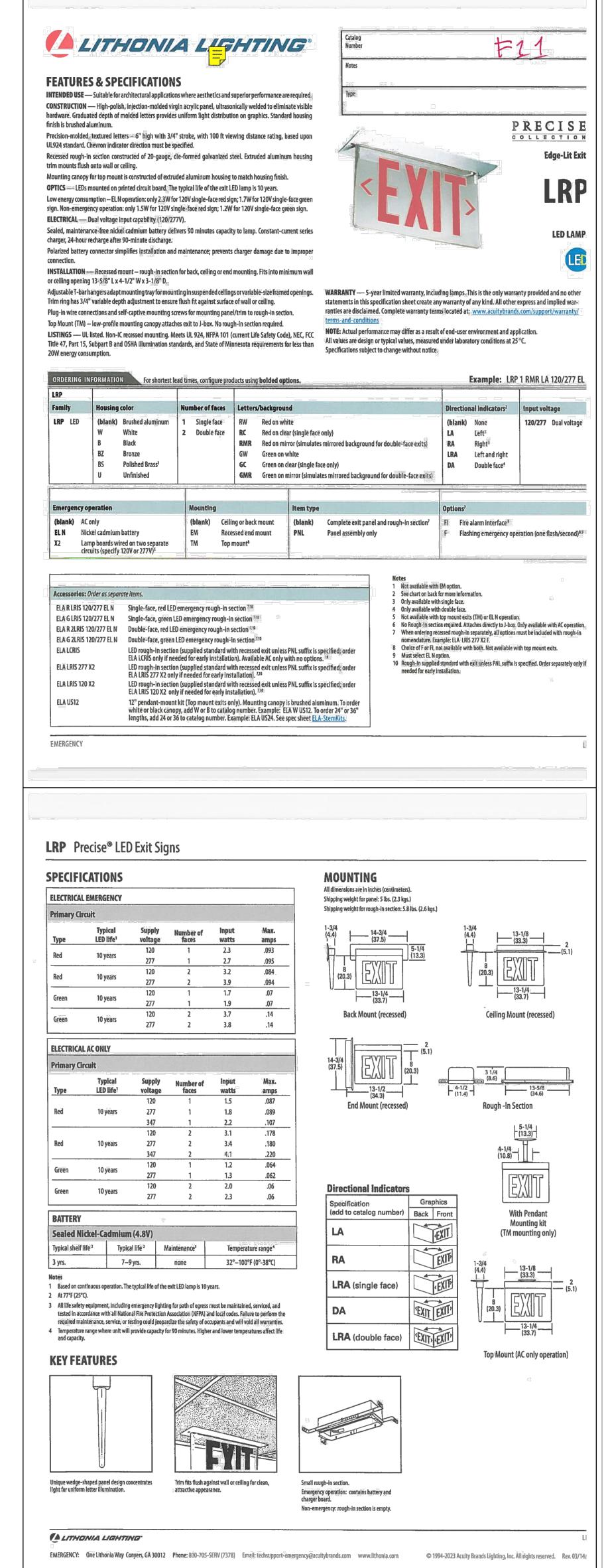
COMMERCIAL INDOOR

SHEET NUMBER:

12/08/23 | SHEET: ____ OF ____ IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY

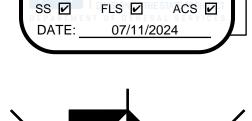
L.A.I.# 21-375





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ARCHITECTS, INC.

Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

PROJECT TITLE

LUCCI i iləəuciitəə luc CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS





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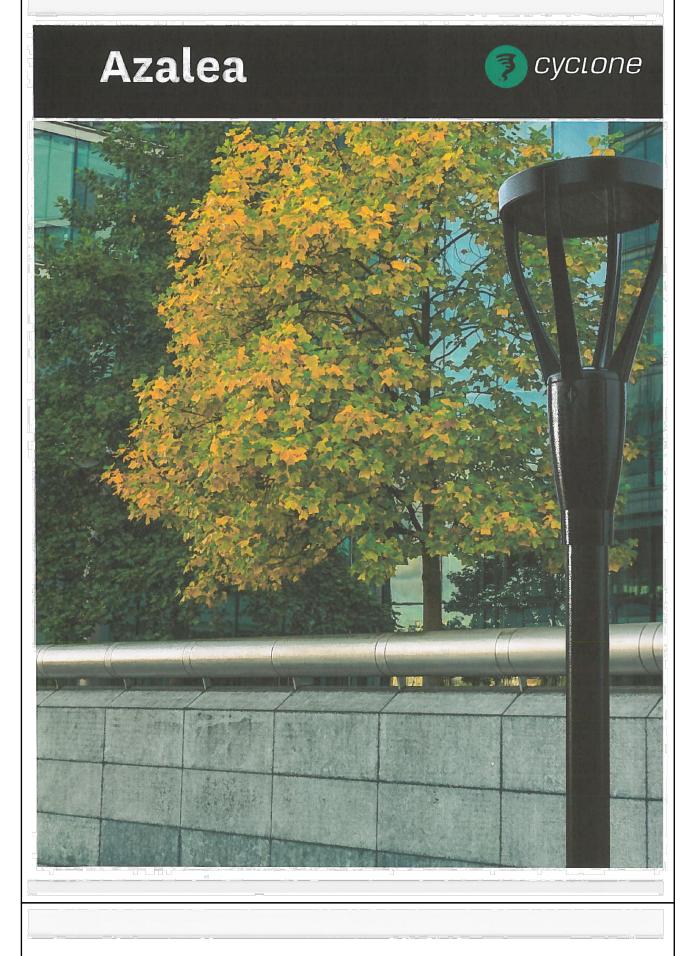
LIGHTING

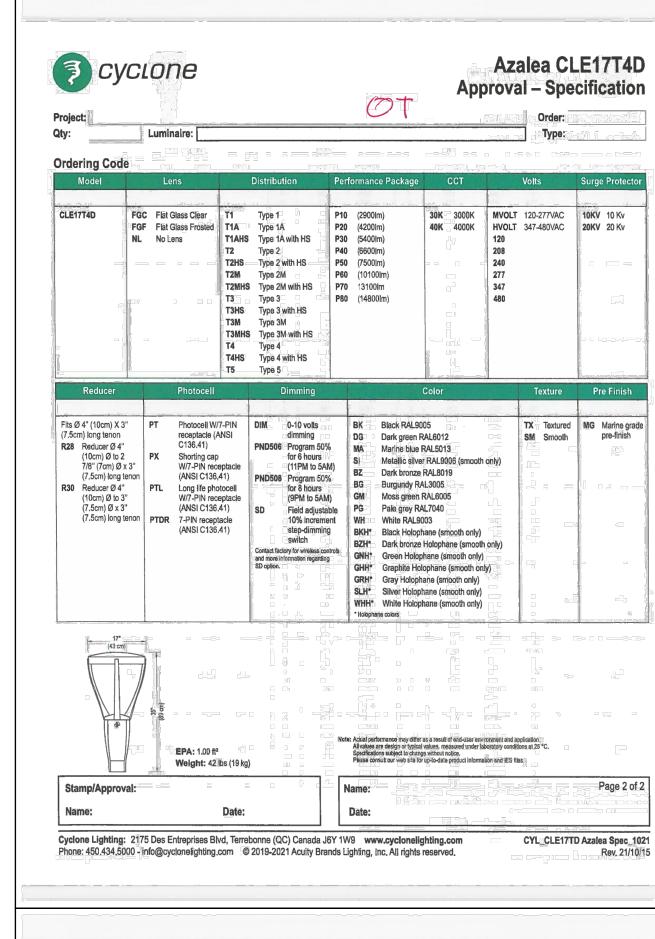
FIXTURE TYPE 'F11' & 'F17' CUT SHEETS

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

SHEET NUMBER:



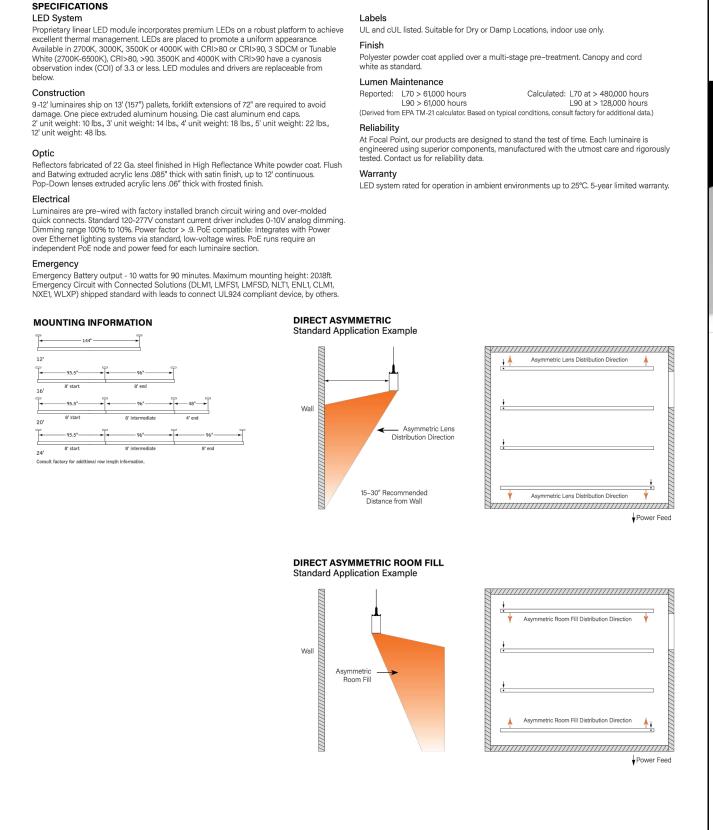


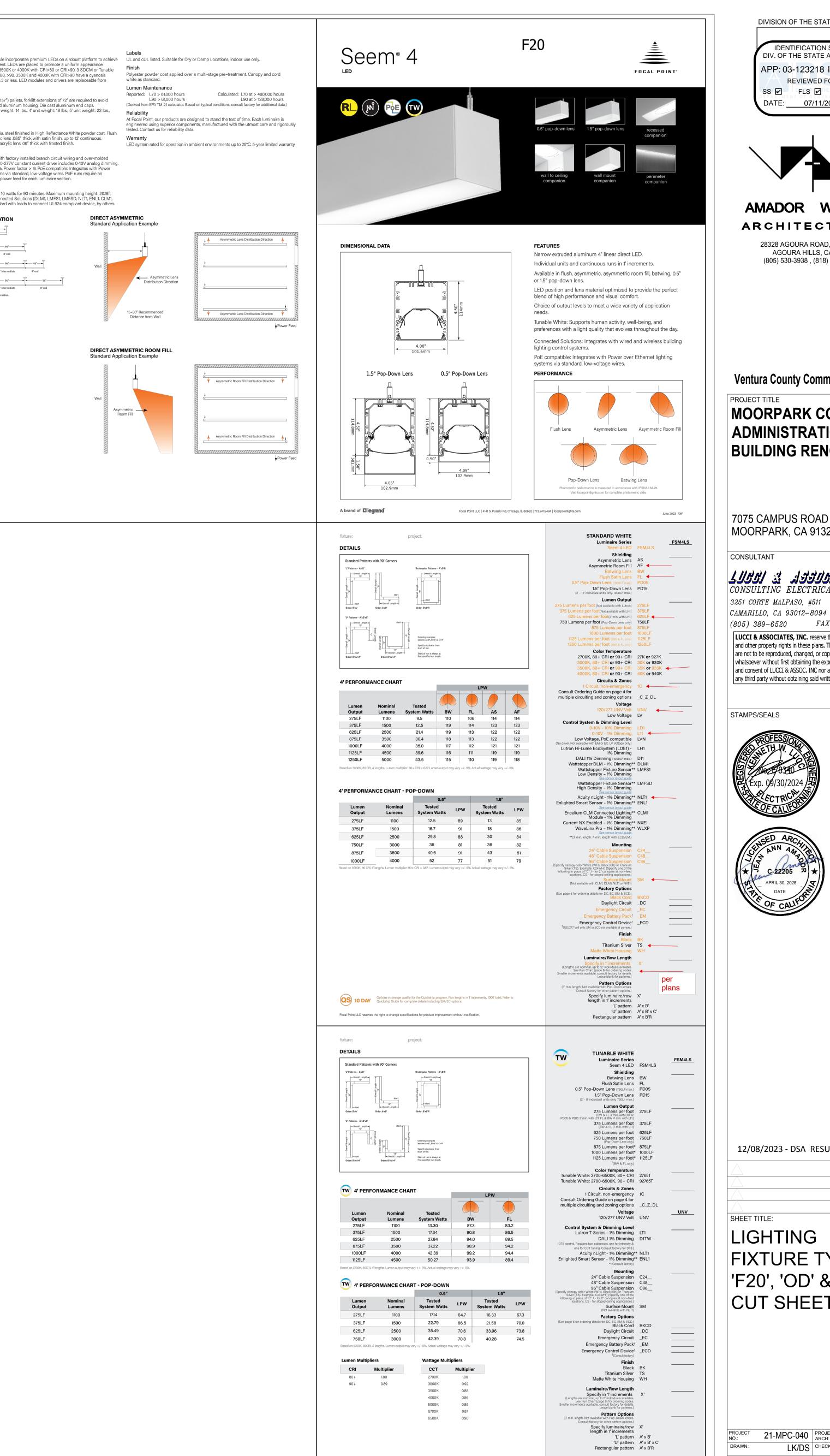


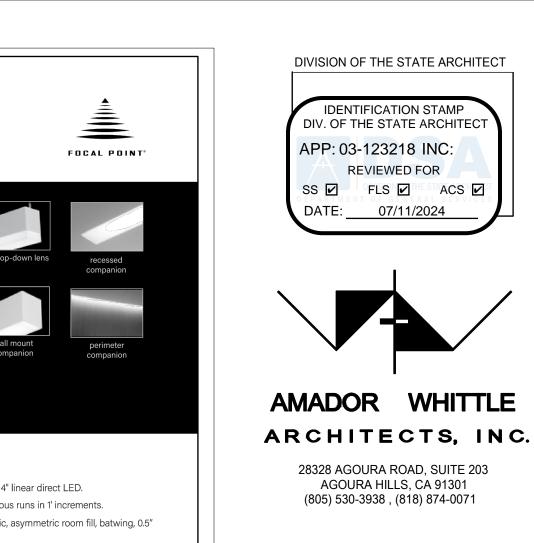
	Cyl	CLC	one	9							W	Y2:	
Photom Azalea - Cl				Clear)					_ \$0.85°C		5 / Mari (1)		Wikil ^e Workin
Performance	Watts	Optic	Lumen	30K Efficacy	B. U	G Lumen	40K Efficacy B	U G	25K	LLD @	25C 75K	100K	·: ==== p = qijA
Package	System	THE P	Output 2481	(LM/W)	1_0	Output	(LM/W) 5 5%	0 1	Hours	Hours	Hours	Hours	
		T1A T2	2432 2343	107 103	1 0	1 2554 0 2460	112 1	0 1					
P10	22.8	T2M T3	2317	102		1 2433 1 2436	107 1 107 1	0 1 0 1		0.98	0,97	0,97	
		T3M T4	2389 2219	105 97	1 0	1 2508	110 1	0 1					
7	<u>L</u>	T5	2404	105	1 0	1 2330 1 2524	102 1	0 1				١.,	
		T1 T1A	3547 3477	106 104	1 0 1 0	1 3724 1 3651	112 1 109 1	0 1	<u> </u>	9 9			
P20	33,4	T2M	3350 3312	100	1 0	1 3518 1 3478	105 1	0 1	0.98	0.98	0.97	0,97	
	00/10	T3M	3316 3415	99	1 0	1 3482	104 1	0 1		1 2		0.57	
		T4 T5	3172 3438	95 103	1 0	1 3331	100 1 108 2	0 1		, I		P2	
7 =	2002	T1 T1A	4575 4484	104 102	2 0	1 4804 1 4708	110 2 107 2	0 1 0 1					- 52
		T2 T2M	4320 4271	99 98	1 0	1 4536 1 4485	104 1 102 1	0 1			n;	٦Щ	
P30	43,8	T3	4277	98	1 0	1 4491	103 1	0 1	0,90	0.98	0,97	0,97	l A
-		T3M T4	4404 4091	101 93	1 0	1 4624 1 4296	106 1 98 1	0 1		ľ	#		
01	Seen	T5 -T1	4432 5564	101	2 0	1 4654 2 5842	106 2 106 2	0 1		Signer *		* * .	
		T1A T2	5453 5254	99 95	2 0	1 5726 1 5517	104 . 2 100 . 1	0 1		p] [-	
P40	55,1	T2M T3	5195 5201	94	1 0	1 5455 1 5481	99 1	0 1		0.98	0,97	0.97	
		T3M T4	5358 4975	97	1 0	1 5624 1 5224	102 1 95 1	0 1		3			
		T5	5390 6346	98 100	2 0	1 5660 2 6663	103 2 105 2	0 1		<u> </u>	THES	-	
		T1A T2	6220 5992	98 94	2 0	1 6531 1 6292	103 2	0 1		1010			
P50	63,5	T2M	5925	93	2 0	1 6221	98 2	0 1	0.98	0.98	0,97	0,97	
		T3 T3M	5932 6109	93 96	1 0	1 6229 1 6414	98 1 101 2	0 1				J	
L		T4 T5	5675 6148	89 97	1 0	2 5959 1 6455	94 1 102 3	0 2				Z"	
		T1 T1A	8473 8304	99 97	2 0 2 0	2 8897 2 8719	104 2 102 2	0 2			-10		
1000	05.0	T2 T2M	8001 7911	94	1 0	1 8401 1 8307	98 1 97 2	0 - 1		0.00			
P60	85,3	T3 T3M	7921 8157	93 96	1 0	2 8317 2 8565	98 1 100 2	0 2	0,30	0.98	0.97	0,97	
_	4	T4 T5	7577 8208	89 96	1 0	2 7956 1 8618	93 1 101 3	0 2	Ĭ 602				
		T1 T1A	11030	99	3 0	3 11582	104 3	0 3					
		T2	10810	97 94	3 0	2 11351 1 10936	102 3 99 2	0 2					
P 7 0	110,9	T2M T3	10298 10311	93	2 0	2 10813 2 10827	98 2 98 2	0 2	0,96	0,98	0,97	0,97	L L
		T3M T4	10618 9863	96 89	2 0	2 11149 2 10356	101 2 93 2	0 2					
5, 55	7-5-00	T5 T1	10685 12480	96 96	3 0	2 11219 3 13104	101 3	0 2		[0	<u> </u>		
		T1A T2	12232 11784	94 91	3 0 2 0	2 12844 2 12373	99 · 3	0 2		9	510		
P80	129.7	T2M T3	11652 11667	90	2 0	2 12235 2 12250	94 2 94 2	0 2	0.98	0,98	0,97	0,97	
		T3M	12015	93	2 0	2 12616	97 2	0 2	2				
Nator A -1 -	formation	T4 T5	11160	86 93	2 0 3 0	2 11718 2 12695	90 2 98 3	0 2		5			<u> </u>
Note: Actual per All values are de Specifications si	esign or typical	values, me	asured under								142 (17) 142 (17)		



(1) 3/4" NPT (Not Plugged) (1) 3/4" NPT (Not Plugged)







Ventura County Community College PROJECT TITLE

MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTANT

|५५४४। द्धः अञ्चएष्टाअ४३३ ।अष्ट CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

LIGHTING FIXTURE TYPE 'F20', 'OD' & 'OT' CUT SHEETS

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

12/08/23 SHEET: ____ OF ____ IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY L.A.I.# 21-375

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Focal Point LLC reserves the right to change specifications for product improvement without notification.

SHEET NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET)
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL
- 4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY
- 6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- 8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME
- 9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO
- 11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- 12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING
- WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE
- RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
- 15. ALL LIGHTING FEEDERS (FROM LIGHT FIXTURES TO DIMMER RACKS) SHALL BE STRANDED #10 AWG THHN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT, NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.
- CONNECT TO LIGHTING CONTROLLER ARP IN ELECTRICAL ROOM CIRCUIT ARP-1
- 3 EXIT LIGHT POWER , PANEL B-1 AS NOTED.
- 3/4"C-2#12 & 1#12 GROUND TO PANEL B CIRCUITS AS NOTED.
- PENDANT MOUNT, RIGID PIPE 2'-6" FROM CEILING INSTALL EMT CONDUIT BETWEEN
- SEE E300A FOR BRIDGE GATEWAY SYSTEM.

THE ENTIRE BUILDING IS CONNECTED TO AN EMERGENCY GENERATOR BACK UP POWER. ALL LIGHTING WILL TURN ON AT 100% IF NORMAL POWER IS LOST

SPACE: AISLES, CORRIDORS AND EXIT ACCESS

AN EMERGENCY ELECTRICAL SYSTEM (ENTIRE BUILDING IS ON EMERGENCY GENERATOR WHEN LOSS OF COMMERCIAL POWER OCCURS) SHALL AUTOMATICALLY ILLUMINATE ALL

2. FIRE COMMAND CENTERS. (NONE AT PROJECT) 3. FIRE PUMP ROOMS. (NONE AT PROJECT)

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 07/11/2024



AMADOR WHITTLE ARCHITECTS, INC.

> 28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTANT

PROJECT TITLE

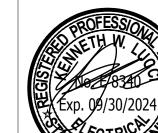
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

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STAMPS/SEALS





- Project area

. ELECTRICAL EQUIPMENT ROOMS. (INCLUDED IN PROJECT)

12/08/2023 - DSA RESUBMITTAL

ADMINISTRATION BUILDING LIGHTING PLAN -WEST

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

E301

12/08/23 IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY L.A.I.# 21-375

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SHEET NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE
- 4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- 5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- 6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- 8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- 9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO
- INSTALLATION.
- REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- SYSTEM CONDUITS. 13. VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND
- 14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY DIMMER
- RACK, POWER LINK PANELBOARD, PHOTOCELL, TIMECLOCK, OR LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
- STRANDED #10 AWG THHN MINIMUM WITH DEDICATED NEUTRALS FOR EACH CIRCUIT, NO SHARED NEUTRALS ARE PERMISSIBLE. DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.
- (1) 3/4"C-2#12 & 1#12 GROUND & 2#14 (PURPLE & GRAY FOR 0-10V DIMMING).
- CONNECT TO EXISTING ARP LIGHTING CIRCUIT #2 (PANEL G 23).
- 3 EXIT LIGHT POWER , PANEL B-1.
- 3/4"C-2#12 & 1#12 GROUND TO PANEL B CIRCUITS AS NOTED.
- ZONE 1 AND 2 AS ALTERNATE FIXTURES.

THE ENTIRE BUILDING IS CONNECTED TO AN EMERGENCY GENERATOR BACK UP POWER. ALL LIGHTING WILL TURN ON AT 100% IF NORMAL POWER IS LOST

PROVIDE EMERGENCY AUTOMATICALLY ELECTRICAL ILLUMINATION (CBC 1008.3.2) IN EVENT OF POWER SUPPLY FAILURE IN ROOMS, SPACES AND BUILDING THAT REQUIRE TWO OR MORE MEANS OF EGRESS. IN SPACE: AÏSLES, CORRIDORS AND EXIT ACCESS STAIRWAYS AND RAMPS.

AN EMERGENCY ELECTRICAL SYSTEM (ENTIRE BUILDING IS ON EMERGENCY GENERATOR WHEN LOSS OF COMMERCIAL POWER OCCURS) SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING

1. ELECTRICAL EQUIPMENT ROOMS. (INCLUDED IN PROJECT) 2. FIRE COMMAND CENTERS. (NONE AT PROJECT)

KEY MAP

FOUNTAIN HALL

─ PROJECT AREA ?

3. FIRE PUMP ROOMS. (NONE AT PROJECT) 4. GENERATOR ROOMS. (NONE AT PROJECT) DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



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CONSULTANT

PROJECT TITLE

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

ADMINISTRATION BUILDING LIGHTING PLAN -EAST

21-MPC-040 PROJECT ARCH:

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L.A.I.# 21-375

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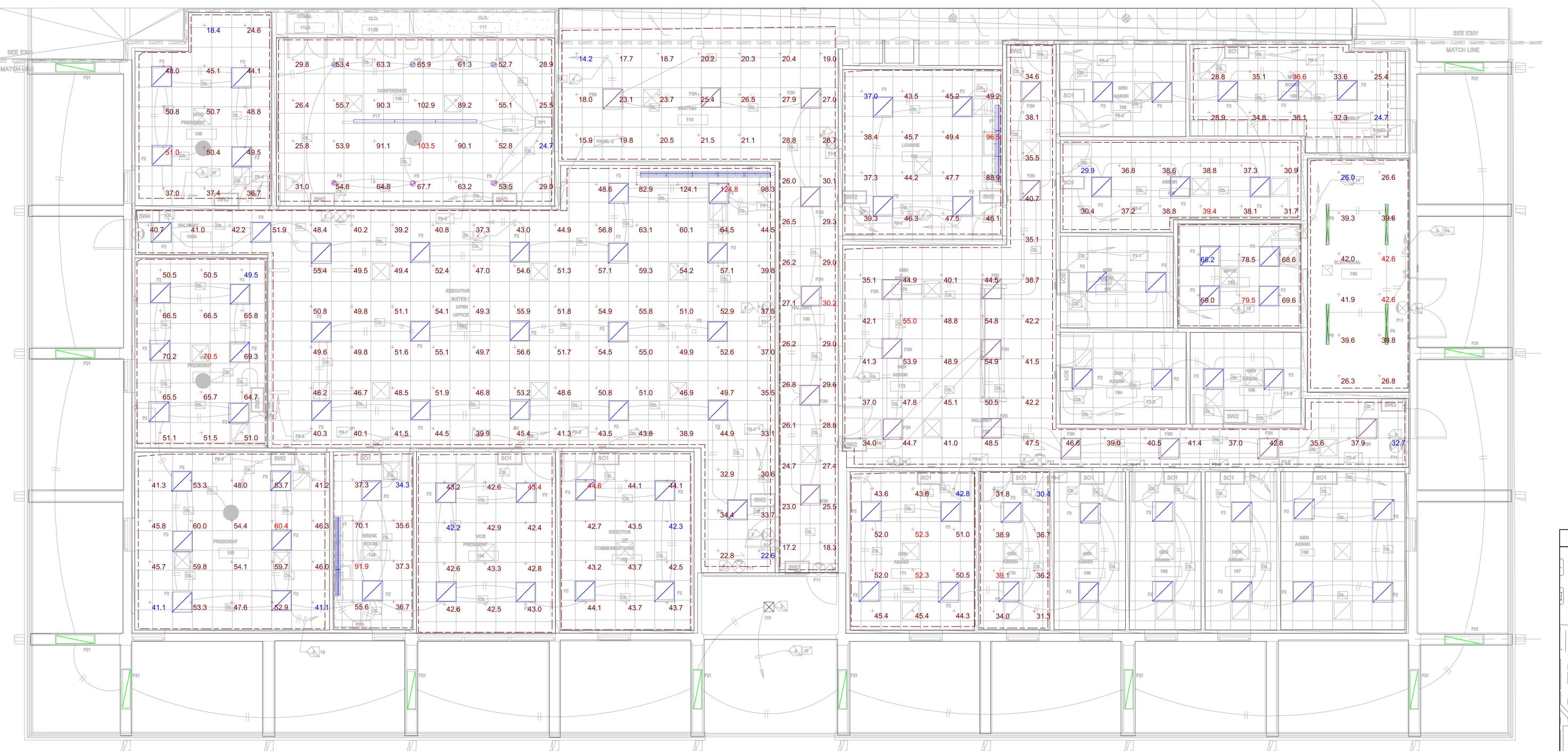
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Symbol	Label	lmage	Quantity	Manufacturer	Catalog Number	Description	Source	Lumens Per LED	LLF	Input Power	Distribution	Notes
	F1		0	Lithonia Lighting		Spec Ambient LED Troffer, 2X4, Hourglass, 4800 Nominal Lumens, 80 CRI, 3500K		4750	0.92	40.48	DIRECT, SC-0=1.28, SC-90=1.27	
	F2		150	Lithonia Lighting		Spec Ambient LED Troffer, 2X2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2N		58	Lithonia Lighting	ENVX 2X2 HRG 4000LM 80CRI 35K EZT MVOLT CL80 NES7	Spec Ambient LED Troffer, 2X2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
	F2S		0	Lithonia Lighting	ENVX 2X2 HRG 4000LM 80CRI 35K	Spec Ambient LED Troffer, 2X2, Hourglass, 4000 Nominal Lumens, 80 CRI, 3500K		4113	0.92	36.28	DIRECT, SC-0=1.28, SC-90=1.27	
\bigcirc	F3		20	Gotham Architectural Lighting	EVO 35/30 AR LSS MVOLT LS MVOLT EZ1 NLT N80	EVO 6IN ROUND, 80CRI, 3500K, 3000LM, SEMI-SPEC		3302	0.92	29.5	DIRECT, SC-0=0.91, SC-90=0.92	
\bigcirc	F4		3	Gotham Architectural Lighting	EVO6WW 35/25 AR LS MVOLT EZ1 NLT N80	EVO 6IN WW, 80CRI, 3500K, 2500LM, CLEAR SPECULAR		2250	0.92	24.7	DIRECT, SC-0=0.75, SC-90=0.97	
	F5		0	Lithonia Lighting	EPANL 2X4 3000LM 80CRI 35K	EPANL 2x4, 3000 Nominal Lumens, 80 CRI, 3500K CCT		3141	0.92	28.51	DIRECT, SC-0=1.27, SC-90=1.27	
N	F6		3	Lithonia Lighting	EPANL 1X4 3000LM 80CRI 35K-SURFACE KIT	EPANL 1x4, 3000 Nominal Lumens, 80CRI, 3500K CCT		2960	0.92	26.92	DIRECT, SC-0=1.27, SC-90=1.28	
	F7		26	KELVIX	UC32 3040 010V 120/277 WH	32" UNDERCABINET LIGHT		1187	0.92	15.893		
	F9		11	Lithonia Lighting	CLX L48 4000LM HEF WDL MVOLT 35K 80CRI WH	CLX LED linear 48", 4000 lumens, High efficiency, Less louver, Wide diffuse, General, MVOLT, 3500K, 80CRI		3941	0.92	25.5429	SEMI-DIRECT, SC- 0=1.21, SC-90=1.18	
1	F17		2	Mark Architectural Lighting	S4PD LSL 12FT MSL4 80CRI 35K 1000LMF MIN1 FLL SCT MVOLT WHTT NLIGHT F1/36A RDCY WHTCY WCRD	Slot 4 Surface Direct 4FT 80CRI 35K 1000LMF Lambertian Flush Lens		3890	0.92	95.55	DIRECT, SC-0=1.21, SC-90=1.22	
	F20A		1	Focal Point, LLC	FSM4PR-XXX-FL2-625LF -35K-XC-XXX-XXX-XXX- WH-28FT		3500K 80CRI LED	2239	0.92	163.1		
	F20B		1	Focal Point, LLC	FSM4PR-XXX-FL2-625LF -35K-XC-XXX-XXX-XXX- WH-20FT		3500K 80CRI LED	2239	0.92	116.5		
<u>N</u>	F21		24	Lithonia Lighting	BLT4R 30L ADSMT LP935	BLTR 1x4, 3000 NOMINAL LUMENS, Curved Smooth Lens with Trim Rings 3500K CCT, 90CRI		2482	0.92	22.63	DIRECT, SC-0=1.19, SC-90=1.31	

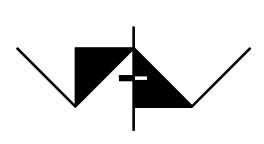
SIAIISI	103						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
CONFERENCE RM 109	+	57.4 fc	103.5 fc	24.7 fc	4.2:1	2.3:1	2.2
CONFERENCE ROOM 145	+	85.4 fc	142.7 fc	46.3 fc	3.1:1	1.8:1	1.9
DIRECTOR OF COMMUNICATIO NS 105	+	43.5 fc	44.6 fc	42.3 fc	1.1:1	1.0:1	1.0
ELECTRICAL 163	+	36.1 fc	42.6 fc	26.0 fc	1.6:1	1.4:1	1.5
EXAM 118	+	49.5 fc	89.3 fc	38.1 fc	2.3:1	1.3:1	2.1
EXAM 119	+	46.8 fc	73.3 fc	37.6 fc	1.9:1	1.2:1	1.9
EXTERIOR PERIMETER - WEST	+	6.2 fc	11.2 fc	2.0 fc	5.6:1	3.1:1	4.5
GEN ASSGN 141	+	51.7 fc	56.5 fc	43.7 fc	1.3:1	1.2:1	1.3
GEN ASSGN 143	+	21.5 fc	28.0 fc	17.9 fc	1.6:1	1.2:1	1.5
GEN ASSGN 146	+	28.5 fc	33.0 fc	23.7 fc	1.4:1	1.2:1	1.3
GEN ASSGN 160	+	35.7 fc	39.4 fc	29.9 fc	1.3:1	1.2:1	1.2
GEN ASSGN 170	+	34.8 fc	39.1 fc	30.4 fc	1.3:1	1.1:1	1.2
GEN ASSGN 171	+	47.9 fc	52.3 fc	42.8 fc	1.2:1	1.1:1	1.2
GEN ASSGN 172	+	42.6 fc	55.0 fc	32.7 fc	1.7:1	1.3:1	1.3
GENDER RESTROOM 126	+	13.4 fc	13.5 fc	13.3 fc	1.0:1	1.0:1	1.0
GENERAL SUPPORT 133 GENERAL	+	28.3 fc	29.2 fc	27.5 fc	1.1:1	1.0:1	1.1
WAITING 138	+	26.9 fc	34.8 fc	10.6 fc	3.3:1	2.5:1	2.8
HALLWAY 139	+	27.5 fc	33.2 fc	13.1 fc	2.5:1	2.1:1	2.0
HEALTH COORDINATOR 123	+	46.8 fc	50.5 fc	42.7 fc	1.2:1	1.1:1	1.2
HEALTH ED 131	+	46.8 fc	50.4 fc	42.0 fc	1.2:1	1.1:1	1.2
HEALTH WAITING 124	+	33.0 fc	41.7 fc	23.2 fc	1.8:1	1.4:1	1.6
LOUNGE 156	+	50.1 fc	96.5 fc	37.0 fc	2.6:1	1.4:1	2.0
MAIL RROOM 159	+	31.6 fc	36.6 fc	24.7 fc	1.5:1	1.3:1	1.3
MECHANICAL 155	+	47.3 fc	62.3 fc	31.3 fc	2.0:1	1.5:1	1.5
MENS RESTROOM 149	+	59.2 fc	79.2 fc	41.0 fc	1.9:1	1.4:1	1.6
MENTAL HEALTH	+	37.1 fc	38.0 fc	36.5 fc	1.0:1	1.0:1	1.0
MPOE 162 OPEN OFFICE	+	72.2 fc	79.5 fc	68.2 fc	1.2:1	1.1:1	1.2
SUITES 102	+	49.9 fc	124.8 fc 60.4 fc	22.6 fc	5.5:1	2.2:1	2.2
PRESIDENT 106 STORAGE 122	+	50.3 fc		41.1 fc	1.5:1	1.2:1	1.3
STORAGE 122 STORAGE 136	+ +	16.4 fc	16.7 fc	16.0 fc	1.0:1		-1.0 1.0
TEL/IT	+	21.1 fc 41.1 fc	21.4 fc 50.8 fc	20.8 fc 19.7 fc	1.0:1 2.6:1	1.0:1 2.1:1	1.4
VICE PRESIDENT	+	60.6 fc	70.5 fc	49.5 fc	1.4:1	1.2:1	1.3
VICE PRESIDENT	+	42.8 fc	43.4 fc	42.2 fc	1.0:1	1.0:1	1.0
VICE PRESIDENT 108	+	42.3 fc	51.0 fc	18.4 fc	2.8:1	2.3:1	2.4
WAITING 110	+	24.0 fc	30.2 fc	14.2 fc	2.1:1	1.7:1	1.4
WOMENS RESTROOM 151	+	63.2 fc	89.2 fc	39.1 fc	2.3:1	1.6:1	1.9
WORKROOM 128	+	57.8 fc	85.6 fc	33.8 fc	2.5:1	1.7:1	1.6
BREAK ROOM 105	+	49.8 fc	91.9 fc	34.3 fc	2.7:1	1.5:1	2.5



ADMINISTRATION BUILDING EM AND NORMAL PHOTOMETRIC PLAN - EAST (SCALE: NTS

KEY MAP PERFORMING ─ PROJECT AREA HUMANITIES/ SOCIAL SCIENCE BUILDING LIBRARY FOUNTAIN HALL

DIVISION OF THE STATE ARCHITECT IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



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Ventura County Community College

PROJECT TITLE **MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTING ELECTRICAL ENGINEERS

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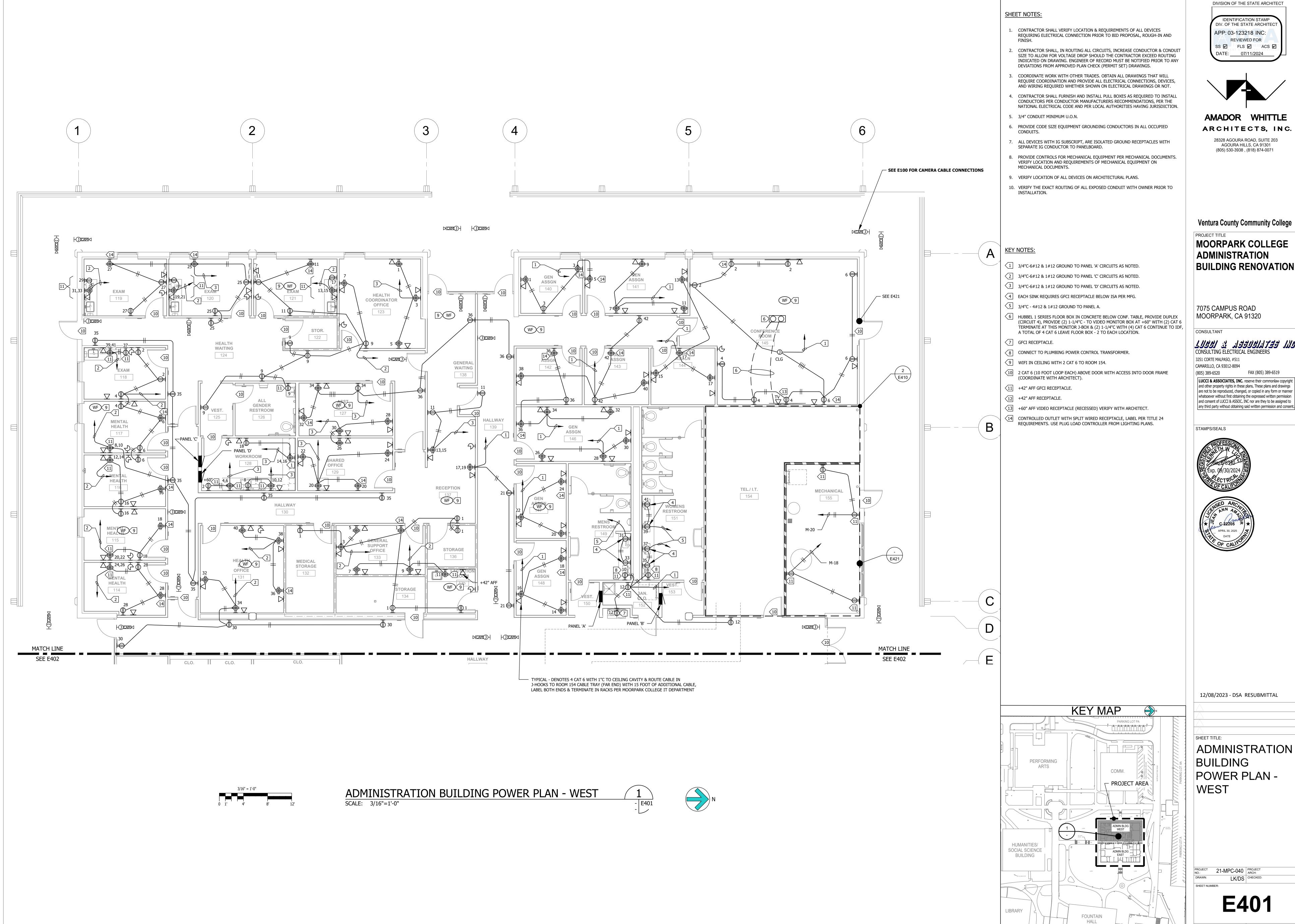
ADMINISTRATION BUILDING EM AND NORMAL

PHOTOMETRIC PLAN - EAST

21-MPC-040 PROJECT ARCH:

LK/DS CHECKED:

E304



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ADMINISTRATION POWER PLAN -

E401

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- 1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,
- 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE
- 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED
- 7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON
- 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- 3/4"C-6#12 & 1#12 GROUND TO PANEL 'E'.
- 2 3/4"C-6#12 & 1#12 GROUND TO PANEL 'F'.

- 8 SAW CUT FLOOR FOR (2) 1" CONDUIT & REPAIR TO ORIGINAL CONCRETE.
- 9 WIFI IN CEILING WITH 2 CAT 6 TO ROOM 154.
- 2 CAT 6 (10 FOOT LOOP EACH) ABOVE DOOR WITH ACCESS INTO DOOR FRAME (COORDINATE WITH ARCHITECT).

KEY MAP

FOUNTAIN HALL

¬ PROJECT AREA ?

- +42" AFF GFCI RECEPTACLE.
- +60" AFF VIDEO RECEPTACLE (RECESSED) VERIFY WITH ARCHITECT.
- CONTROLLED OUTLET WITH SPLIT WIRED RECEPTACLE, LABEL PER TITLE 24 REQUIREMENTS. USE PLUG LOAD CONTROLLER FROM LIGHTING PLANS.

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

ADMINISTRATION BUILDING POWER PLAN -EAST

21-MPC-040 PROJECT ARCH:

L.A.I.# 21-375

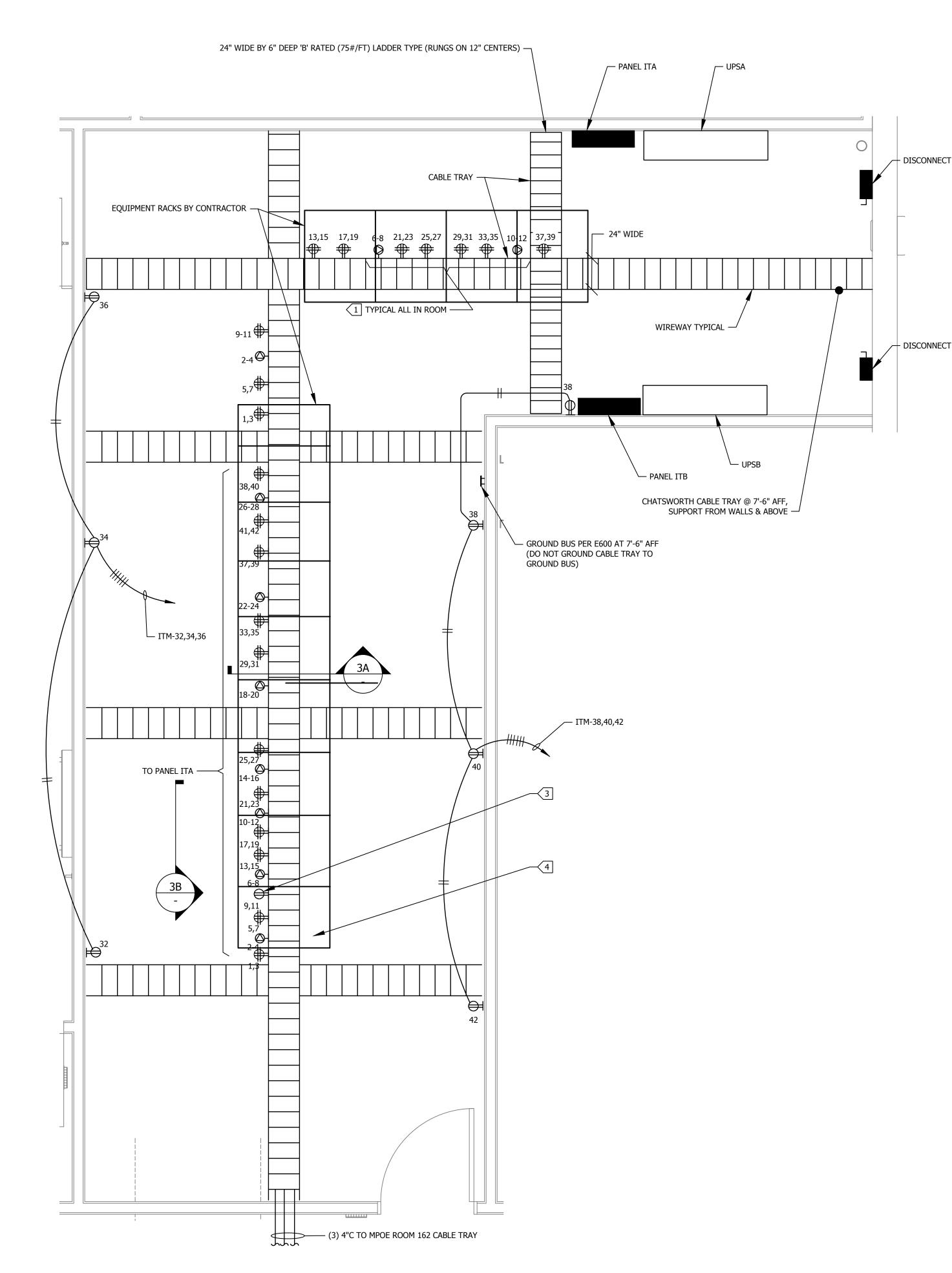
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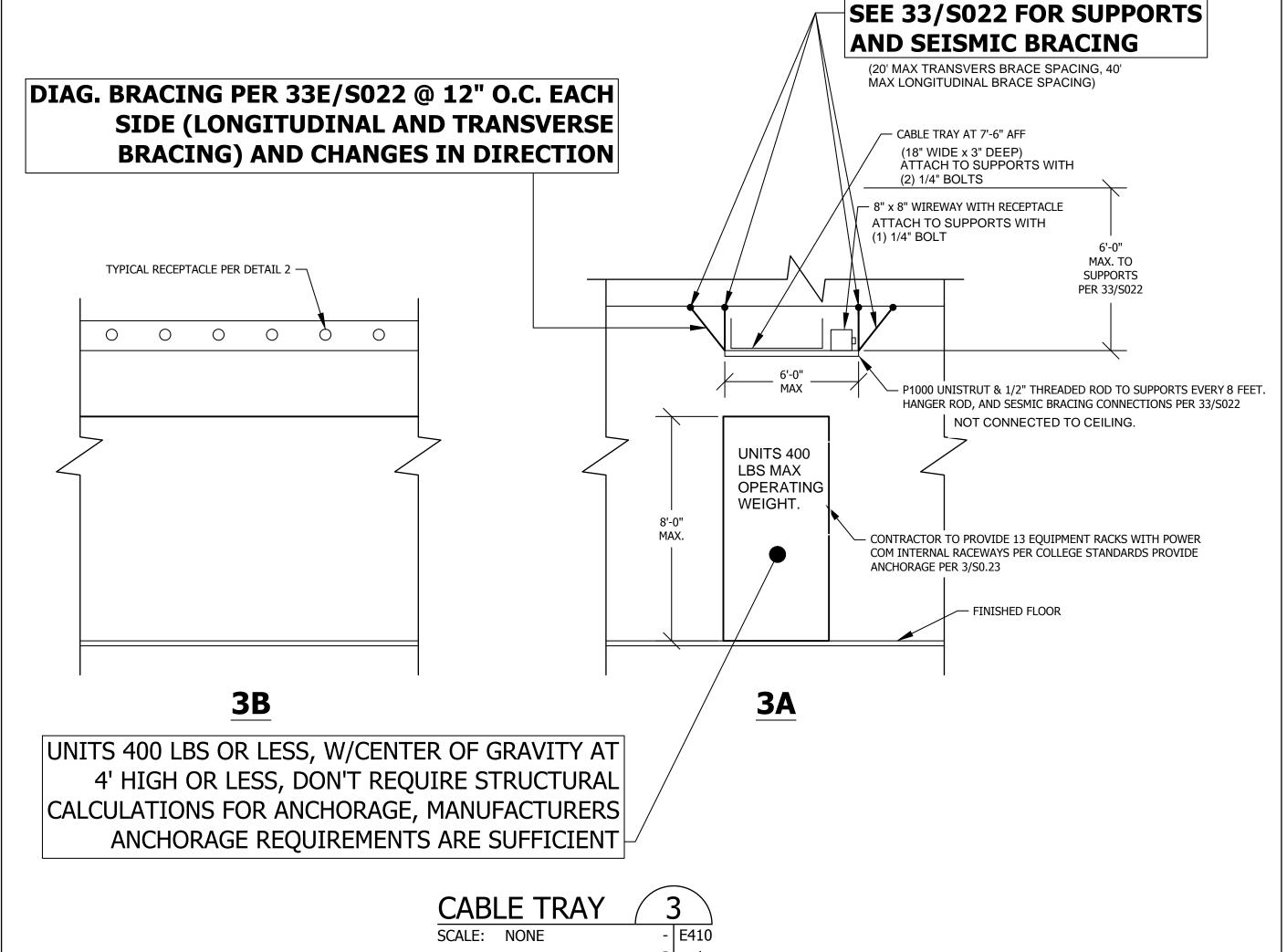
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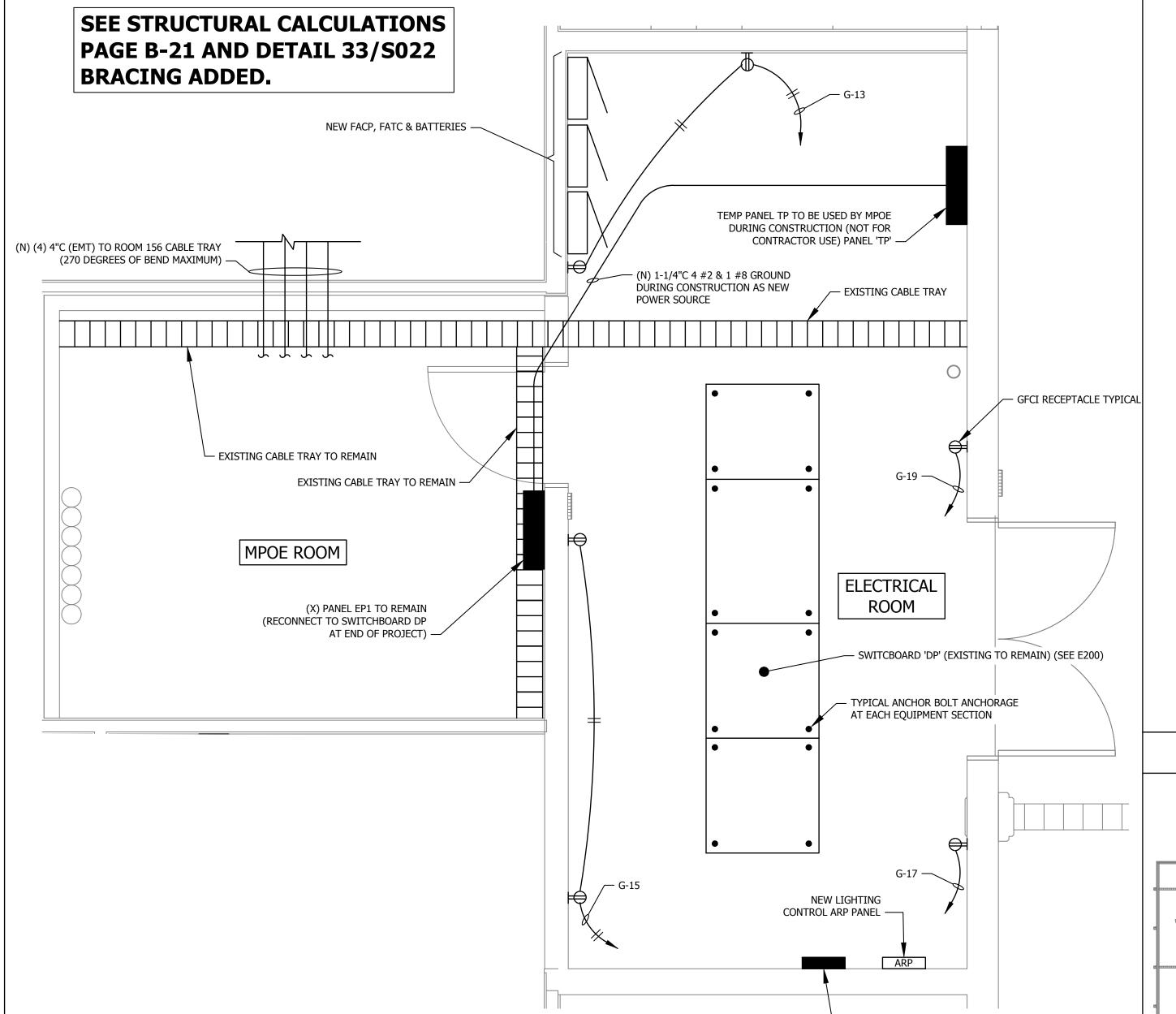
SEE 33/S022 FOR RESTRAINTS/BRACES FOR ALL CONDITIONS



TEL. / I.T. ROOM (154)
SCALE: 1/2"=1'-0"







MPOE AND ELECTRICAL ROOM (162 & 163)

SHEET NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,
- AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE

NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

5. 3/4" CONDUIT MINIMUM U.O.N.

MECHANICAL DOCUMENTS.

- 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED
- ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 3. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON
- 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- 11. GROUND CABLE TRAY WITH #8 AWG & HOME RUN TO 'DP' GROUND
- 12. EXISTING EQUIPMENT UNDER 400LBS MAX WEIGHT SHOULD HAVE A MINIMUM OF ONE ANCHOR EA. CORNER VERIFY IN FIELD OR PROVIDE ANCHORAGE TO (E) FRAMING PER SHEET S023

KEY NOTES:

- MOUNT AN 8" x 8" WIREWAY ADJACENT TO CABLE TRAY.
- PROVIDED BY COLLEGE, CONTRACTOR INSTALLED & CONNECTED.
- TYPICAL IG OUTLETS, 5-20R ORANGE, MOUNTED TO CABLE TRAY HOME RUN (3) RECEPTACLES TOGETHER IN 3/4"C - 6#10 & 3#10 GROUND TO PANEL IT, CIRCUIT AS NOTED ITA
- TYPICAL L6 30 RECEPTACLE MOUNTED TO CABLE TRAY (LABEL CIRCUIT #) HOME RUN 3/4"C - 3#10 & 1#10 GROUND TO PANEL ITA CIRCUITS AS NOTED
- TYPICAL IG OUTLETS, 5-20R ORANGE, MOUNTED TO CABLE TRAY HOME RUN (3) RECEPTACLES TOGETHER IN 3/4"C - 6#10 & 3#10 GROUND TO PANEL IT, CIRCUIT AS NOTED ITB
- TYPICAL L6 30 RECEPTACLE MOUNTED TO CABLE TRAY (LABEL CIRCUIT #) HOME RUN 3/4"C - 3#10 & 1#10 GROUND TO PANEL ITB CIRCUITS AS NOTED

FOR EXISTING ELECTRICAL EQUIPMENT (ALL UNDER

FIELD AT EA. CORNER OR PROVIDED NEW. SEE NEW

KEY MAP

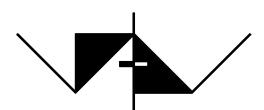
400 LBS), ANCHOR BOLTS SHALL BE VERIFIED IN

SHEET NOTE 12.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DIVISION OF THE STATE ARCHITECT





AMADOR WHITTLE ARCHITECTS, INC.

> 28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

CAMARILLO, CA 93012-8094

PROJECT TITLE

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

ENLARGED TEL./I.T. AND ELECTRICAL ROOMS (154, 162, & 163)

> 21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

> > E410

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY L.A.I.# 21-375

12/08/23

PANEL G

1 - E410

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								<u></u>		
	ELECTI		CHEDUL	E FO		IANICAL		EXTERIOR EQUIPMENT	SHALL BE NEMA 3R)	
TAG # DESCRIPTION	H.P. FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED ** FUSE SIZE/TYPE **	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1 PACKAGED ROOF TOP AC-1(EAST)	149	175	208	3		200A/3P	175A FRN-RK	WITH SMOKE DUCT DETECTOR	DB-12	2"C - 3 # 3/0 & 1#6 GND (EMT) COPPER
AC 2 PACKAGED ROOF TOP AC-2 (WEST)	149	175	208	3		200A/3P	175A FRN-RK	WITH SMOKE DUCT DETECTOR	DB-13	2"C - 3 # 3/0 & 1#6 GND (EMT) COPPER
CP CONDENSATE PUMP	1.5 AM 93 WAT	PS 15 TS	208	1		4			M-24 - 26	3/4"C - 2#12 & 1#12 & 1#12 GND
DF DRINKING FOUNTAIN	1.0 AM	IP 15	120	1		3			SEE E401	3/4"C - 2#12 & 1#12 & 1#12 GND
EF EXHAUST FAN 1 (EMS CONTROL)	2	15	120	1		4			M-1	3/4"C - 2#12 & 1#12 & 1#12 GND
EF 2 EXHAUST FAN 2 (MOTION SENSOR TIME DELAY)	.3	15	120	1		4			M-3	3/4"C - 2#12 & 1#12 & 1#12 GND
EF 3 EXHAUST FAN 3 (LINE VOLTAGE T-STAT)	2	15	120	1		(5)			M-5	3/4"C - 2#12 & 1#12 & 1#12 GND
HP HEAT PUMP	173	250	208	3		400A/3P	225A FRN-RK		DB-11	2"C - 3 # 250MCM & 1#4 GND (EMT) COPPER
L LAVATORY	2 AMP	S 15	120	1		(5)			AS NOTED ON E401	3/4"C - 2#12 & 1#12 & 1#12 GND
PUMP 1	.5 4.6	15	208	1	1	15A/2P	8A	CONTACTOR CONTROLLED	M-9-11	3/4"C - 2#12 & 1#12 & 1#12 GND
P PUMP 2	1.5 5.0	15	208	3	VFD	15A/3P			M-13-15	3/4"C - 3#12 & 1#12 & 1#12 GND
RP RECIRCULATION PUMP	180 WATT	s	120	1	00	(4)		CONTACTOR CONTROLLED	M-22	3/4"C - 2#12 & 1#12 & 1#12 GND
$\left\langle \begin{array}{c} SD \\ 1 \end{array} \right\rangle$ SMOKE DETECTOR (DUCT DETECTOR)			120	1					G-6	3/4"C - 2#12 & 1#12 & 1#12 GND
SS SPLIT SYSTEM 1A FAN COIL (COM ROOM)	2.5	15	208	3		15A/3P			ITM-2-4-6	3/4"C - 3#12 & 1#12 & 1#12 GND
SS SPLIT SYSTEM 1B (ROOF) COMPRESSOR (COM ROOM)	45.5	60	208	3		60A/3P			ITM-1-3-5	1"C - 3#6 & 1#10 GND
SS 2A SPLIT SYSTEM 2A FAN COIL (COM ROOM)	2.5	15	208	3		15A/3P			ITM-8-10-12	3/4"C - 3#12 & 1#12 & 1#12 GND
SS SPLIT SYSTEM 2B (ROOF) COMPRESSOR (COM ROOM)	45.5	60	208	3		60A/3P			ITM-7-9-11	1"C - 3#6 & 1#10 GND
SS 3A SPLIT SYSTEM 3A (ROOF) COMPRESSOR ('IT' ROOM)	13	20	208	1		20A/2P			ITM-13-15	3/4"C - 2#12 & 1#12 & 1#12 GND
SS SPLIT SYSTEM 3B FED FROM '3A' ('IT' ROOM)								OUTDOOR UNIT POWERS INDOOR UNIT	ITM-13-15	PER MFG (3/4"C - 2#12 & 1#12 & 1#12 GND)
SS AA SPLIT SYSTEM 4A (ROOF) ('IT' ROOM)	13	20	208	1		20A/2P			ITM-17-19	3/4"C - 2#12 & 1#12 & 1#12 GND
SS AB SPLIT SYSTEM 4B FED FROM '4A' ('IT' ROOM)								OUTDOOR UNIT POWERS INDOOR UNIT	ITM-17-19	PER MFG (3/4"C - 2#12 & 1#12 & 1#12 GND)
WH WATER HEATER ('IT' ROOM)	30 AMI 4500 WATT		208/240	1	30A/2P	30A/2P		CONTACTOR CONTROLLED	M-2-4	3/4"C - 3#10 & 1#10 GND
* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.	l	<u> </u>	1	1	1				·	-

SHEET NOTES:

- 1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
- 2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- 3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
- 4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL,
- MECHANICAL, AND STRUCTURAL DRAWINGS.
- 6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE

5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.

- 7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- 8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED
- 9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES,ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
- 10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
- 11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
- 12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET)
- 13. PROVIDE DISCONNECT OR STARTER WITH A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

- FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.
- 2 PROVIDE 3/4"C & CONTROLS PER MECHANICAL.
- W.P. GFCI. RECEPTACLE. 4 MOTOR RATED SWITCH.
- 5 15A, 120V, GFCI RECEPTACLE

SEE M6.0 FOR MECHANICAL CONTROL REQUIREMENTS

Ventura County Community College

PROJECT TITLE

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

AMADOR WHITTLE

ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD

MOORPARK, CA 91320

CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

21-MPC-040 PROJECT ARCH:

E420

- 1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND
- . CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,
- AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL
- CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 5. 3/4" CONDUIT MINIMUM U.O.N.
- 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED
- 7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

- 1 SEE E420 FOR FEEDER/CIRCUIT INFORMATION.
- 2 HOME RUN M-6

- 5 STAINLESS STEEL COVERED BOX WITH TAMPER PROOF SCREWS MOUNTED UNDER COUNTER.

KEY MAP

FOUNTAIN HALL

+ a Lala Lala Lala Lala L

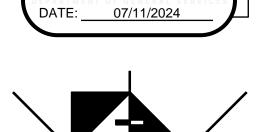
─ PROJECT AREA

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

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Ventura County Community College

MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320

3251 CORTE MALPASO, #511

PROJECT TITLE

LUCCI i istologia istologia CONSULTING ELECTRICAL ENGINEERS

CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 **LUCCI & ASSOCIATES, INC.** reserve their commonlaw copyright

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

ADMINISTRATION BUILDING MECHANICAL AND PLUMBING ELECTRICAL PLAN - WEST

21-MPC-040 PROJECT ARCH:

E421

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY L.A.I.# 21-375

HUMANITIES/ SOCIAL SCIENCE BUILDING



SHEET NOTES:

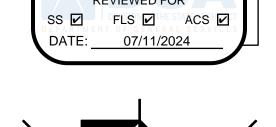
- 1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND
- 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 5. 3/4" CONDUIT MINIMUM U.O.N.
- 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED
- 7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

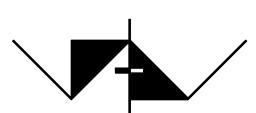
KEY NOTES:

SEE E420 FOR FEEDER/DISCONNECT INFORMATION

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DIVISION OF THE STATE ARCHITECT





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Ventura County Community College

MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD MOORPARK, CA 91320

CAMARILLO, CA 93012-8094

PROJECT TITLE

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12/08/2023 - DSA RESUBMITTAL

ADMINISTRATION BUILDING MECHANICAL AND PLUMBING ELECTRICAL PLAN -EAST

21-MPC-040 PROJECT ARCH:

E422

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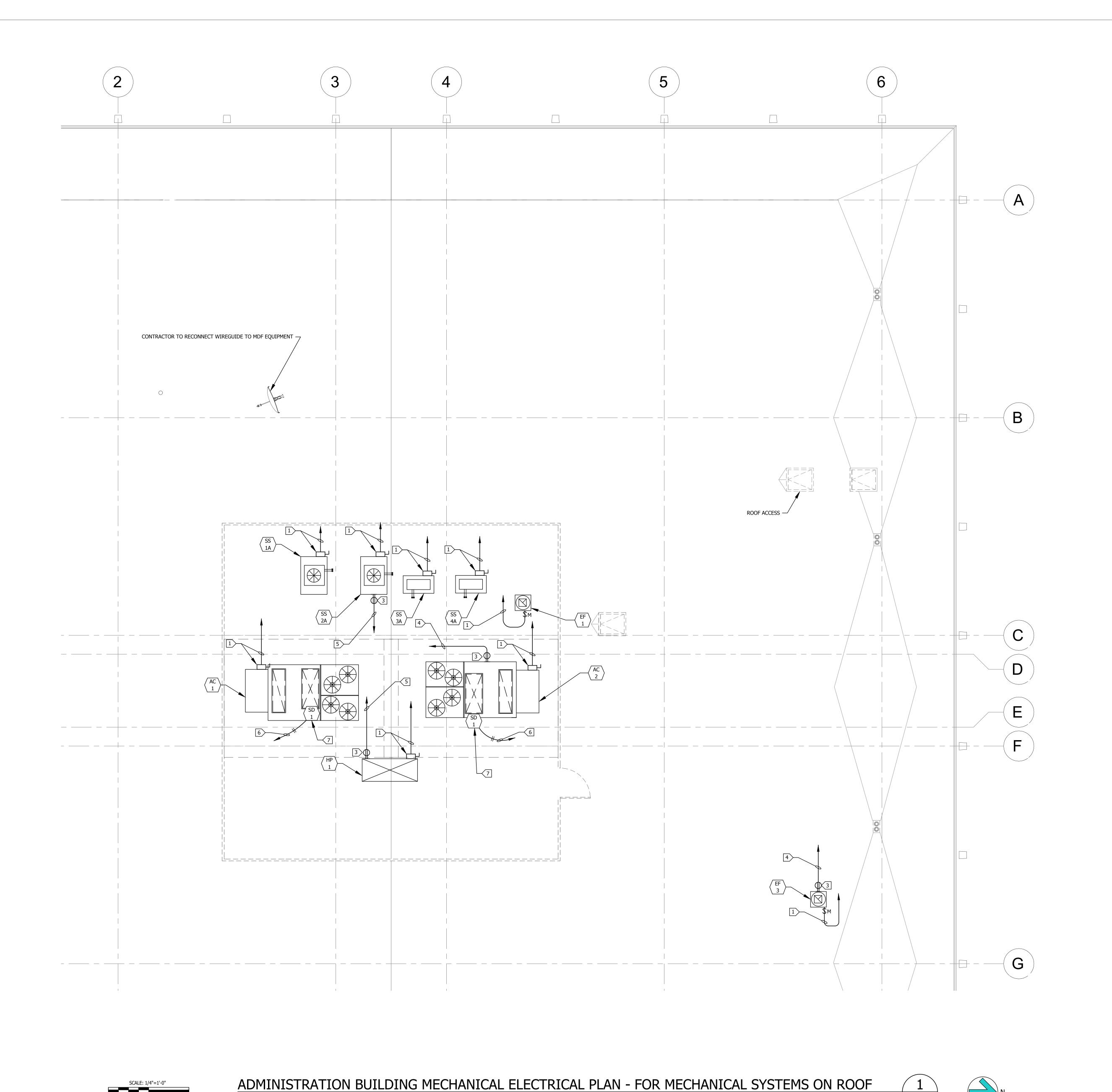
FOUNTAIN HALL

PERFORMING

SOCIAL SCIENCE BUILDING

KEY MAP

¬ PROJECT AREA ?



SHEET NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND
- 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,

AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

- 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 5. 3/4" CONDUIT MINIMUM U.O.N.

MECHANICAL DOCUMENTS.

- 6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED
- 7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- 8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON
- 9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- for feeder and disconnect information see electrical schedule for MECHANICAL EQUIPMENT THIS SHEET.
- 2 PROVIDE 3/4"C & CONTROLS PER MECHANICAL.
- 3 W.P. GFCI RECEPTACLES
- 4 M-12
- 5 M-14
- 6 M-16
- 7 SEE FA PLANS

SS & CU POWER COMMUNICATION PER MECHANICAL PLANS & MFG

KEY MAP

FOUNTAIN HALL

PERFORMING

SOCIAL SCIENCE BUILDING

LIBRARY

talelelelelelett.

─ PROJECT AREA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC:

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12/08/2023 - DSA RESUBMITTAL

ADMINISTRATION BUILDING MECHANICAL ELECTRICAL PLAN - FOR MECHANICAL SYSTEMS ON ROOF

21-MPC-040 PROJECT ARCH:

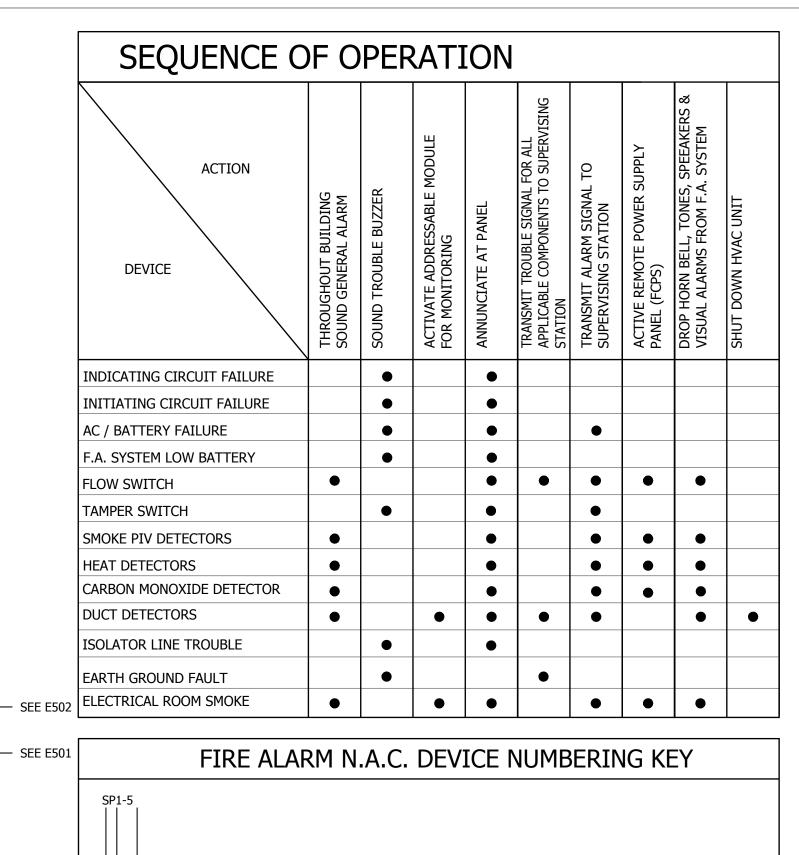
L.A.I.# 21-375

E423

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- E423





NUMBER OF DEVICE IN CIRCUIT OR. —— CIRCUIT NUMBER (NUMBERING STARTS AGAIN AT EACH "FCPS") NOTIFICATION APPLIANCE CIRCUIT TYPE (SP=SPEAKER, V=VISUAL) FIRE ALARM ADDRESSABLE DEVICE IDENTIFICATION KEY

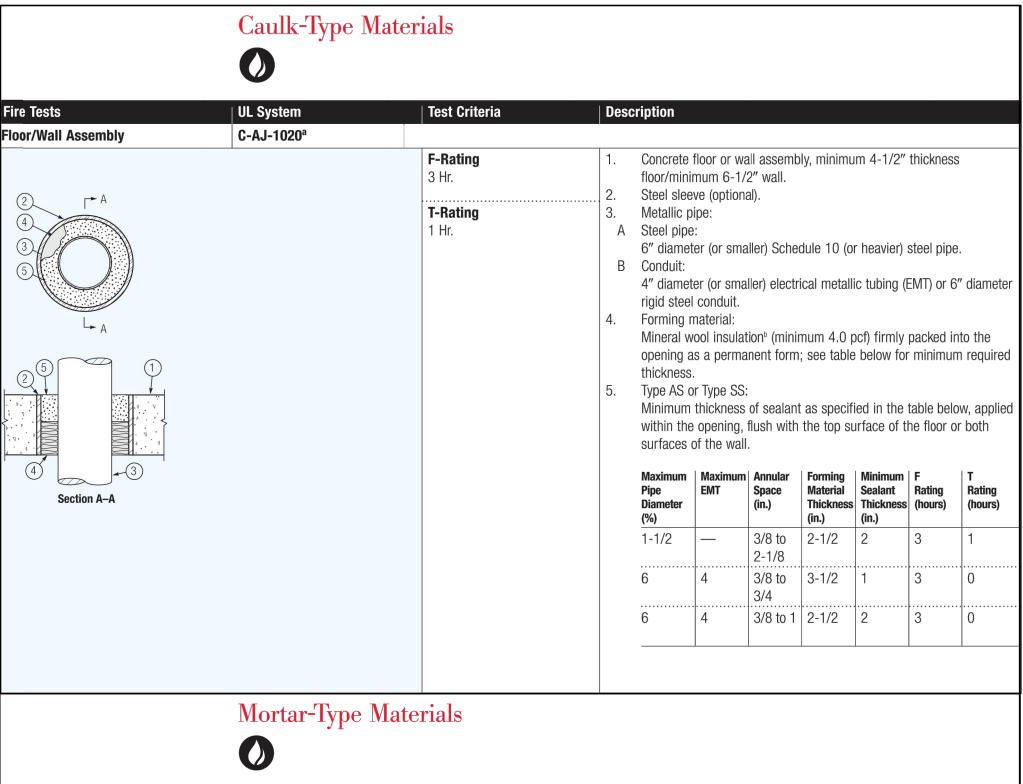
(IDENTIFICATION MATCHES ACTUAL LED DISPLAY IN "FACP" OR "ANN")

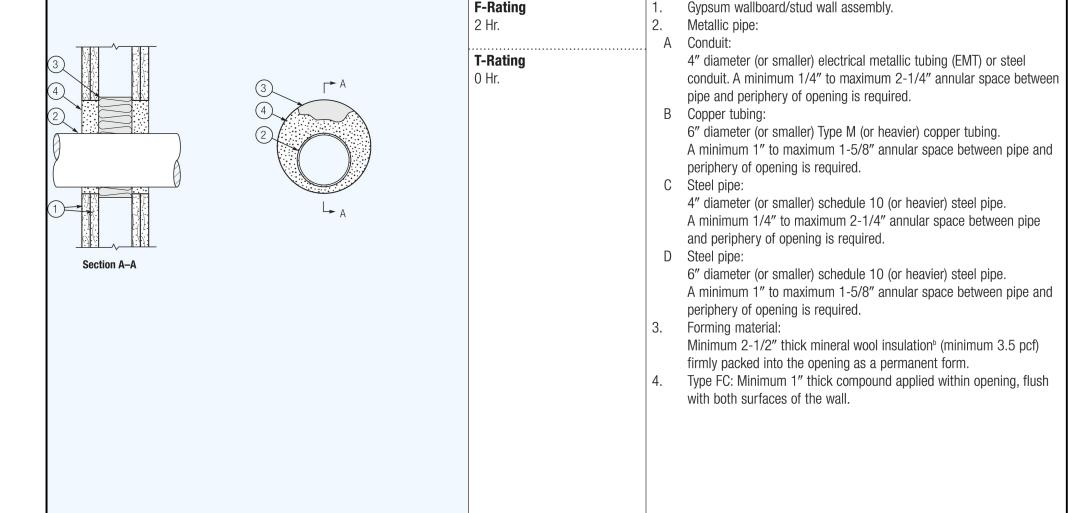
"D" DESIGNATED ADDRESSABLE "DEVICE". "M" DESIGNATED "MONITOR" MODULE.

3-DIGIT NUMBER OF ADDRESSABLE DEVICE

SLC LOOP NUMBER

Mortar-Type Materials

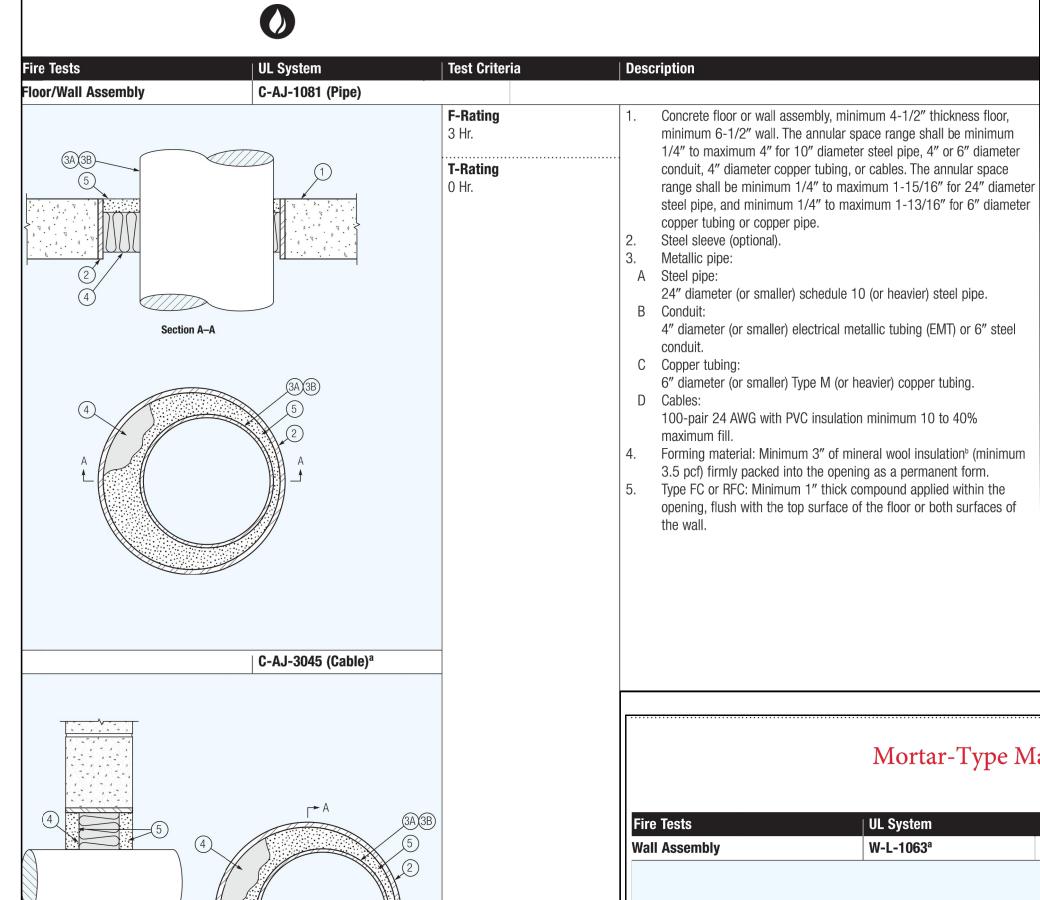




| Test Criteria

| UL System

W-L-1027^a



PROJECT NOTES ALL WIRE SHALL BE IN CONDUIT PER CFC ARTICLE 907. MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION. (DETAIL 1) MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 6" FROM BELOW CEILING WHICH EVER IS LOWEST. PER NFPA 72 CHAPTER 18, CFC MAINTAIN CFC WIRING COLOR CODES. ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760 & CFC 907. IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED, PROVIDE A BREAKER LOCK-ON DEVICE. CFC 907.6 DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS. **CODE ANALYSIS EXISTING ADMINISTRATION BUILDING** ALTERATIONS SHALL COMPLY WITH SFM ADOPTED SECTIONS OF CBC 2022, CHAPTER 35 A. OCCUPANCY TYPE: B-2 B. CONSTRUCTION TYPE: V - B C. NUMBER OF STORIES: ONE ALLOWABLE BUILDING HEIGHT: 15'-0" AREA ANALYSIS: ACTUAL FLOOR AREA: 16,943 G.S.F. EXCLUDING ROOF OVERHANG <u>5,258 G.S.F.</u> INCLUDING ROOF OVERHANG 22,201 G.S.F TOTAL ON AL MAY E

REQUIRED NOTES
F. FIRE SPRINKLERS: NONE EXIST UPGRADE PROVIDES SPRINKLERS ALLOWABLE AREA = 24,570 S.F.
ALLOWABLE AREA = 15,570 S.F.
ALLOWABLE AREA INCREASES PER UBC 2022 SECTION 506.3.3 SEPARATION ON ALL SIDES. EXISTING ALLOWABLE AREA 6,750 S.F. PER TABLE NO. 5-C MAY BE INCREASED 75 PERCENT.
2. BASIC ALLOWABLE AREA: 9,000 S.F. (TABLE 506.2)

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS. INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE BY INSTALLATION TECHNICIAN PER CFC 901.2.1, PROVIDE STATEMENT OF COMPILATION WHEN WITNESSING FOR THE FINAL TEST BY IOR & LOCAL AHJ. IN THE PRESENCE OF THE LOCAL AHJ IOR SSS FIELD ENGINEER, OWNER AND ENGINEER OF RECORD.

A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND RETAINED ON SITE/PREMISES FOR 5 YEARS PER CFC 901.6.2 / TITLE 19 USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE DSA FLS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE

BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL

UPON COMPLETION OF THE INSTALLATION. COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY AND DSA VIA THE PROJECT INSPECTOR.

F.A. RACEWAY

MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER AND SHALL NOT EXCEED 40% FILL. ALL FA CONDUITS SHALL BE

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A EST4 EDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

SCOPE OF WORK

EVACUATION & CONNECT TO CAMPUS WIDE SYSTEM.

PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM FOR BUILDING, AUTOMATIC TYPE FOR COMPLETE BUILDING INCLUDING VOICE

MONITOR MODULES SHALL BE INSTALLED

WITHIN 36" OF MONITORED DEVICE.

SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF SUPPLY HVAC REGISTERS.

ALL WALL PENETRATIONS MUST BE VERIFIED BY SPECIAL FIELD INSPECTORS SINCE

STRUCTURE IS RISK CATAGORY III Mortar-Type Materials UL System Test Criteria W-L-1063^a F-Rating Gypsum wallboard/stud wall assembly. The annular space range shall be minimum 1/4" to maximum 1-5/8". Metallic pipe: A Steel pipe: 3-1/2" diameter (or smaller) Schedule 10 (or heavier) steel pipe.

B Conduit: 3-1/2" diameter (or smaller) electrical metallic tubing (EMT) or steel

C Copper tubing: 4" diameter (or smaller) Type M (or heavier) copper tubing.

Type FC or RFC: Minimum 1" thick compound applied within opening, flush with both surfaces of the wall.

ABBREVIATIONS

BACKFLOW PREVENTER FIRE-POWER LIMITED COMBINATION SMOKE / FIRE DAMPER FPLP FIRE-POWER LIMITED PLENUM EOL **END-OF-LINE RESISTOR** FIRE-POWER LIMITED RISER EXISTING DEVICE TO BE REMOVED TWISTED PAIR EXISTING DEVICE TO BE REMOVED TWISTED SHIELDED PAIR AND REPLACED WITH NEW "T" THERMOPLASTIC INSULATED CABLE ERR EXISTING DEVICE TO BE REMOVED "HH" MEANS THAT THE WIRE IS HEAT and reinstalled RESISTANT AND CAN WITHSTAND A HIGHER TEMPERATURE EXISTING DEVICE TO REMAIN (UP TO 194° F) "N" NYLON COATING THAT COVERS FACP FIRE ALARM CONTROL PANEL WIRE INSULATION FIRE ALARM TERMINAL CABINET "T" THERMOPLASTIC INSULATED CABLE "H" MEANS WIRE IS HEAT RESISTANT LOCAL RAIL MODULE "W" MEANS WIRE IS APPROVED FOR

DAMP/WET LOCATIONS

WIRE INSULATION

WEATHERPROOF DEVICE

"N" NYLON COATING THAT COVERS

WIRE LEGEND

NEW DEVICE

AND RELOCATED

POST INDICATOR VALVE

EXISTING DEVICE TO BE REMOVED

CALLOUT USAGE A ADDRESSABLE CIRCUIT TWISTED-PAIR, SOLID 2#12 FPLR (UNSHIELDED) SPEAKER CIRCUIT TWISTED-PAIR, SOLID 4#16 AERIAL CABLE DB FPL (UNSHIELDED) GEL FILLED UNDERGROUND CIRCUIT 2#14 THHN (UNSHIELDED) STROBE CIRCUIT STRANDED

CON	NDUIT WIRE	FILL CHART		BOX SIZE VS. NUMBER OF V	VIRES PER C	C.E.C.
ONDUIT SIZE	A A A VIA	ALIAA CONE	NUCTORS	J-BOXES	#14	#12
ONDUIT SIZE	MAXIN	NUM CONE	DUCTORS	3-1/4X1-1/2 OCTAGON	5	4
INCHES	#18 AWC	#14 AWC	#14 AWG	3-1/2X1-1/2 OCTAGON	5	5
	#10 AVVO	#10 // 10	#14 // 10	4X1-1/2 OCTAGON	8	7
1/2"	19	15	13	4X1-1/8 OCTAGON	11	10
3/4" 1"	34 55	26 43	24 39	4X4X1-1/2	11	10
1 1/4"	97	76	69	4X4X2-1/8	15	14
1 1/2" 2"	132 216	104	94	4X2-1/8X1-1/2	3	3
2	216	169	154	4X2-1/8X1-7/8	5	4
RECOMMEND	ATION FOR	CONDUIT S	IZE BY C.E.C	4X2-1/2X2-1/2	5	5
			· · ·			

3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 3-1/2 | 4

16 26 45 61 101 176 266 347 443

10 | 16 | 28 | 38 | 63 | 111 | 167 | 219 | 279

IIIIVVIN	8		6	9	16	16	36	64	4	96		126	1	61
l	PERCEN [®]	T AREA	OF CO	NDUIT		Р	ERCENT 18AWG							
TRADE S INCHE		INTER DIAM INCH	ETER	TOTA AREA 11 SQ. II	00%	OVER WIRES 40 SQ. IN.	% 1	2	3	4	5	6	7	8
3/4		0.82	24	0.533	3	0.213	19%	38%	57%	76%	95%	Х	Х	Х
1		1.04	49	0.86	4	0.346	12%	24%	36%	48%	6%	72%	84%	96%
1 1/4	1	1.38	30	1.49	6	0.598	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	2	1.6	10	2.03	6	0.814	5%	10%	15%	20%	25%	30%	35%	40%
2		2.0	67	3.35	6	1.342	3%	3%	9%	12%	15%	18%	21%	24%

GENERAL NOTES

ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH C.E.C. ARTICLE 760, POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST WITHIN THE SCOPE OF WORK AS SHOWN ON THIS SUBMITTAL PACKAGE SHALL BE MADE IN THE PRESENCE OF THE FIRE

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE

FIRE ALARM DEVICES SHALL BE INSTALLED PER N.F.P.A. 72.

ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT

WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT AT EACH DEVICE.

ALL WIRING TO BE INSTALLED IN CONDUIT. CONDUIT SIZE TO BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.

0. ALL CONDUCTORS ARE COPPER.

. SYSTEM IS POWER LIMITED.

2. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.

AND NO GREATER THAN 96 INCHES ABOVE FINISHED FLOOR.

3. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS

SPECIFICATIONS. . TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT

SOUND LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS,

WHICHEVER IS GREATER, MEASURED 5 FT (1.5 m) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY

THE SYSTEM USING THE A-WEIGHTED SCALE (dBA) PER NFPA 72 SECTION 18.4.3.1. AREAS HAVING MORE THAN TWO STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED 2016 NFPA 72

SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM

HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED. WALL-MOUNTED STROBES SHALL HAVE THEIR BOTTOMS NOT LESS THAN 80 INCHES ABOVE FINISHED FLOOR

THE RECORD OF COMPLETION DOCUMENTATION SHALL BE COMPLETED BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE CONCLUSION OF THE JOB. THE RECORD OF COMPLETION DOCUMENTATION SHALL BE PERMITTED TO BE PART OF THE WRITTEN STATEMENT REQUIRED IN 7.5.2 AND PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 7.5.8. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE DOCUMENTATION FOR WHICH THAT CONTRACTOR HAS RESPONSIBILITY, 2016 NFPA 72 7.5.6.2.

FIRE ALARM SIGNAL SHALL MEET ANSI \$3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL

0. POWER FOR THE FIRE ALARM CONTROL PANEL IS TO BE PROVIDED BY A DEDICATED CIRCUIT BREAKER. INDICATE LOCATION OF THIS BREAKER AT THE FACP. BREAKER TO BE RED AND LABELED "FIRE ALARM CONTROL DISCONNECT".

. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE IN ACCORDANCE WITH THE FOLLOWING: (1) "FIRE ALARM" FOR FIRE ALARM SYSTEMS; (2 "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATIONS SYSTEMS; (3) "FIRE ALARM/ECS" FOR COMBINATION FIRE ALARM AND EMERGENCY COMMUNICATIONS SYSTEMS. FOR FIRE ALARM AND/OR SIGNALING SYSTEMS, THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING. THE RED MARKING SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURER'S MARKINGS. THE CIRCUIT DISCONNECTING MEANS SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL 2016 NFPA 72 10.6.5.1-5.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-123218 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DIVISION OF THE STATE ARCHITEC

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

FIRE ALARM GENERAL NOTES AND DEVICES LEGEND

21-MPC-040 PROJECT

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY

L.A.I.# 21-375

Nall Assembly

49.82 amp-hr Design Alarm Current = 2.61 amp-hr 10.49 amp-hr Battery AH requirement = 62.93 amp-hr

Battery Provided QUANTITY 2 OF TV-50A or 100 amp hour total

PANEL FOLLEMENT

NEL EQU	JIPMENT				
		Standby	Alarm	TOTAL	TOTAL
		(ma)	(ma)	(ma)	(ma)
Quantity	Device	Current	Current	Standby Current	Alarm Current
1	4-CPU/ 3-PPS/ 4-PPS	230	230	230	230
1	4-AUDTELS	85	101	85	101
1	4-ANNCPU	145	145	145	145
1	4-ANNAUDTEL	98	98	98	98
1	4-CPUGRPH	123	123	123	123
1	4-PPS/ M configured as BPS	45	45	45	45
	4-PPS/ M configured as BBC	45	45	0	0
1	3-BPS/ M(230)	50	50	50	50
	3-BBC/ M	70	70	0	0
1	4-24L series	4	10	4	10
	3-xx series	2	2	0	0
	3-LDSM	5	5	0	0
1	4-LCD	50	110	50	110
	4-LCDAUDTEL	50	110	0	0
	4-3LCD	40	93	0	0
	4-NET-TP(-HC)	32	32	0	0
1	4-NET-CAT/ 4-FWAL-CAT	27	27	27	27
1	4-NET-SM/ 4-FWAL-SM	35	35	35	35
	4-NET-MM/ 4-FWAL-MM	35	35	0	0
	4-NET-SMH/ 4-FWAL-SMH	35	35	0	0
	4-NET-SMU/ 4-FWAL-SMU	35	35	0	0
	4-NET-SMD/ 4-FWAL-SMD	35	35	0	0
	4-FWAL-1/2/3/4	130	130	0	0
	4-ASDCPU	130	130	0	0
	4-USBHUB	44	44	0	0
1	4-NET-AD	130	130	130	130
1	4-NET-XT	110	110	110	110
1	4-MIC	8	38		38
	4-FT	9	168	0	0
	4-COMREL	0	8	0	0
4	3-SSDC1, 3-SSDC2	144	204	576	816
	3-SDDC1, 3-SDDC2	264	336	0	0
1	3-IDC8/4	48	408	48	408
	3-OPS	53	147	0	0
1	3-MODCOM	60	95	60	95
	3-MODCOMP	60	95	0	0
	CDR-3	60	100	0	0
	3-ZA20B/ A	62	1120	0	0
1	3-ZA40B/ A	62	2480	62	2480
	3-ZA95	85	5540	0	0
1	3-BPS/ M	50	50	50	50
	3-BBC/ M	70	70	0	0
	Remote Annunciators			0	0
	4-ANNCPU	145	145	0	0
1	4-LCDANN	50	110	50	110
	4-24L	4	10	0	0
	4-24L12S	4	10	0	0
	4-24L18S	4	10	0	0
	4-24L24S	4	10	0	0
	4-2ANN	195	255	0	0
	4-4ANN	145	145	0	0
	4-6ANN	145	145	0	0
	4-8ANN	145	145	0	0
	4-16ANN	145	145	0	0
	4-24ANN	145	145	0	0
	4-ANNAUDTEL	98	98	0	0
1	4-LCDAUDTELANN	50	110	50	110
1	4-MIC	8	38	8	38
	4-FT	9	168	0	0
	4-NET-CAT	27	27	0	0
		32	32	32	32
1	4-NET-TP		32	0	0
1	4-NET-TP-HC	32		^	^
1	4-NET-TP-HC 4-NET-MM	35	35		0
1	4-NET-TP-HC 4-NET-MM 4-NET-SM	35 35	35 35	0	0
1	4-NET-TP-HC 4-NET-MM 4-NET-SM 4-NET-SMD	35 35 35	35 35 35	0	0
1	4-NET-TP-HC 4-NET-MM 4-NET-SM	35 35	35 35	0	0

FIELD EQUIPMENT

		Standby	Alarm	TOTAL	TOTAL
		(ma)	(ma)	(ma)	(ma)
Quantity	Device	Current	Current	Standby Current	Alarm Current
44	Speaker Strobe 15cd G4SWF		55		2420
28	Speaker Strobe 30cd G4SWF		78		2184
3	Speaker Strobe 75cd G4SWF		153		459
					0
					0
					0
	FIELD TOTALS			0	5063
				Standby	Alarm

10454

 $[(A + B) \times C] + [(D + E) \times F] \times G = Minimum Amp-Hour Battery Capacity$

Where: A = Internal panel standby current {amps}.

B = External device standby current {amps}. C = Duration panel must remain operational {hours}.

GRAND TOTALS (field & panel)

D = Alarm current {amps}.

E = External device alarm current {amps}.

F = Duration panel must remain in alarm after standby period ends {hours}. G = Spare battery capacity {percentage}.

AMPLIFIER 1 SPEAKER CALCULATION

LOCATION	SPEAKER SIRCUIT	QUANTITY OF SPEAKERS	LOAD PER SPEAKER	TOTAL WATTS PER CIRCUIT
ADMIN	SC	8	2.00 WATTS	16.0
	-	66	.25 WATTS	18.5
		3	.5 WATTS	1.5
			TOTAL WATTS	36.0
			AMPLIFIER PROVIDED	40
			SPARE WATTAGE	4



SCOPE OF WORK

PROVIDE A NEW ADDRESSABLE EVACUATION FIRE ALARM SYSTEM FOR SPRINKLERED BUILDING, AUTOMATIC TYPE COMPLETE BUILDING SYSTEM. A SPEAKER SYSTEM WILL BE EMPLOYED FOR VOICE NOTIFICATION. FA SYSTEM SHALL BE CONNECTED TO CAMPUS WIDE EDWARDS EST SYSTEM

FIRE ALARM ZONE SCHEDULE

THE NEW FIRE ALARM SYSTEM IS A EST4 EDWARD ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

			WIF	RE LEGEND		
TYPE	CONDUCTORS	SIZE	TYPE CABLE	CIRCUIT DESCRIPTION	WIRE COLOR SCHEME	LISTING
А	2	#18AWG	FPL	ADDRESSABLE DEVICE CIRCUIT	RED (+), BLACK (-)	UL AQ224 1424/581 WEST PENN
2A	4	#18AWG	FPL	ADDRESSABLE DEVICE LOOP	RED $(+)$, BLACK $(-)$, BLUE $(+)$, BROWN $(-)$	UL AQ224 1424/581 WEST PENN
В	2	#12AWG	THHN	SPEAKER CIRCUIT (24V)	RED (+), BLACK (-)	UL 83
С	2	#14AWG	THHN	STROBE CIRCUIT	YELLOW (+), BLUE (-)	UL 83

		1/4 \	WATT	1/2	WATT	1 W	/ATT	2 W	/ATT	5	-		-	-	a	-			_	(1)	LENGTH		CIR	VOLTS	2.77.4	100	% VOLTAG
PANEL ID	CKI#		017		034		068 A N A D		132		000		000	0.0		0.00			000	TOTAL :	FT.	x 21.6	÷ MILS 12awg	DROPPED	÷ 24(V)	x 100	DROP
ANAD	1/1	QTY.	AMP	QTY.	AMP	QTY.	AMP	QTY.		QTY.	AMP	QTY.		QTY.	AMP		AMP	QTY.		0.672	. 225	y 21.6		- 0.500	. 24	y 100	2.1
AMP	V1	18	0.306	3	0.102		0.000	2	0.264		0.000		0.000		0.000		0.000		0.000	0.672	225	x 21.6		= 0.500	÷ 24	x 100	2.1
AMP	V2	17	0.289		0.000		0.000	2	0.264		0.000		0.000		0.000		0.000		0.000	0.553	260	x 21.6		= 0.476	÷ 24	x 100	2.0
AMP	V3	13	0.221		0.000		0.000	2	0.264		0.000		0.000		0.000		0.000		0.000	0.485	245	x 21.6		= 0.406	÷ 24	x 100	1.7
AMP	V4	18	0.306		0.000		0.000	2	0.264		0.000		0.000		0.000		0.000		0.000	0.570	x 230	x 21.6	x 6530	= 0.408	÷ 24	x 100	1.7
	C.M I = TOTA FEET = 0	л. AL CIRC	CUIT CUF	100 100 100 100	VOLTA N FEET N			OM SOU	JRCE TO	THE LA	ST DEVI	CE															
	21.6 = F																										
	C.M. = 0					ONDUC	CTOR IN	CIRCUI	LAR MIL	S. SEE (CHART B	ELOW															
	WIRE SI		WIRE R			CIR. M	T .																				
	AWG 12	2	1.59 PE			6530																					
	AWG 14	4	2.52 PE	R 1000)'	4110																					
	AWG 16	6	4.02 PE	R 1000)'	2580																					
	AWG 18	8	6.39 PE	R 1000)'	1620																					

VOLTAGE DROP CA	SIACITA II IO II	1/1011/1	APPLIANCE CIRCUITS	1
VULTAGE DRUP CA	ALCULATIONS	- VISUAL	APPLIANCE CIRCUITS	כ

PANEL ID	CKT#	15cd S 0.0 QTY.	TROBE 143 AMP	30cd S 0.0 QTY.		TROBE 107 AMP	110cd 9 0.1 QTY.			TROBE 055 AMP		TROBE 078		TROBE 153 AMP	110cd S 0.1 QTY.	STROBE 185 AMP	102cd STI 0.172 QTY.	2	(I) TOTAL > CURRENT	LENGTH FT.	x 21.6	CIR ÷ MILS 14awg	= DI	VOLTS ROPPED	÷ 24(V)	x 100	% VOLTAGE DROP
MOD1A	S1		0.000		0.000	0.000		0.000	17	0.935	2	0.156		0.000		0.000	C	0.000	1.091	190	x 21.6	÷ 4110	=	1.089 ÷	÷ 24	x 100	4.5
MOD1B	S2		0.000		0.000	0.000		0.000	14	0.770	9	0.702	1	0.153		0.000	C	0.000	0.935	169	x 21.6	x 4110	=	0.830	÷ 24	x 100	3.5
MOD1C	S3		0.000		0.000	0.000		0.000	2	0.110	9	0.702	2	0.306		0.000	C	0.000	1.118	187	x 21.6	x 4110	= ;	1.099	÷ 24	x 100	4.6
MOD1D	S4		0.000		0.000	0.000		0.000	11	0.605	8	0.624		0.000		0.000	C	0.000	1.229	158	x 21.6	÷ 4110	=	1.021 +	÷ 24	x 100	4.3

I x FEET x 21.6 VOLTAGE DROPPED

C.M. I = TOTAL CIRCUIT CURRENT

FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE

21.6 = FORMULA CONSTANT C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

2.52 PER 1000'

6.39 PER 1000' 1620

> BATTERY BACKUP 6/2023 WP SP 2W ANS40 AMP) SP_{1/4W} — 120V AC 20.0 AMP DEDICATED CIRCUIT (F-X) RED BREAKER SPEAKER SYSTEM SCALE: NONE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC:

DIVISION OF THE STATE ARCHITECT

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: <u>07/11/2024</u>

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CAMARILLO, CA 93012-8094

PROJECT TITLE

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

SHEET TITLE:

FIRE ALARM GENERAL NOTES AND DEVICES LEGEND

21-MPC-040 PROJECT ARCH:

E501

Reporting System Snapshots

EST4 can generate an abundance of stock reports, and users may also design their own within the configuration utility. Printed reports can be generated locally at any control panel, node, or annunciator. Familiar USB connections allow for quick uploading to laptops or transfer to locally-connected printers. Reports can also be sent from any of these locations to system printers elsewhere on the network.

EST4 allows the selection of report data right down to the device level by means of pre-built templates, custom reports, or even on-the-fly using the CU configuration tool. Report content is information rich, detailed, and meaningful. This meticulous report formatting and organization results in highly understandable system overviews and useful deep dives into underlying system configuration data.

Event History Timelines

While system status reports are invaluable for generating snapshots of important data, EST4's event history can paint a vivid picture of the system over time. A giant 20,000-event repository comprises EST4's history, which could span back as far as the system's commissioning. Half of the history can be set aside exclusively for Alarms, ensuring that records of the most important events are preserved. To support forensic investigations, up to 10,000 events can be locked and preserved so as not to be overwritten.

A large variety of pre-built history reports are available for quick access to vital records filtered by day, week, month or year. Custom reports help pinpoint records by date, time, location, device type and more. Together EST4's large history capacity and flexible history reporting serve to create vital timelines that aid in system maintenance and forensic investigations.

Value-added Forward Migration

Page 5 of 6

EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

Email: edwards.fire@fs.utc.com

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United States and other countries.

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Contact us...

Easy migration paths ensure an economical transition from EST3 platforms to EST4's next-generation technology. To start, configuration data is easily transferable from an existing EST3 project to an EST4 upgrade. Hardware is also easy to migrate: all Signature Series devices, modules, and service tools are fully supported by EST4, as are Genesis series notification appliances no rewiring is required.

Existing network cabling is also reusable for upgrades. EST4 even supports network messaging plus live paging with legacy wiring. In fact, simple twisted pair wiring, previously useable only for panel-to-panel data communications can, with EST4, support panel data, paging, as well as telephone. This means that voice audio capability may be added to a system originally wired only for network panel to panel communications – without pulling any additional wire.

EST4 also employs EST3 power supplies, audio amplifiers, MNEC equipment, CAB Series wallboxes, and most local rail modules. This makes the move to EST4 a cost-effective choice for existing installations, and new projects alike. It is a move that will benefit system efficiency and scalability now and for many years into the future.

Agency Approvals UL864 10th edition - UOJZ, UUKL, SYZV, UOQY

UL2017 2nd edition - FSZI UL2572 2nd edition - PGWM

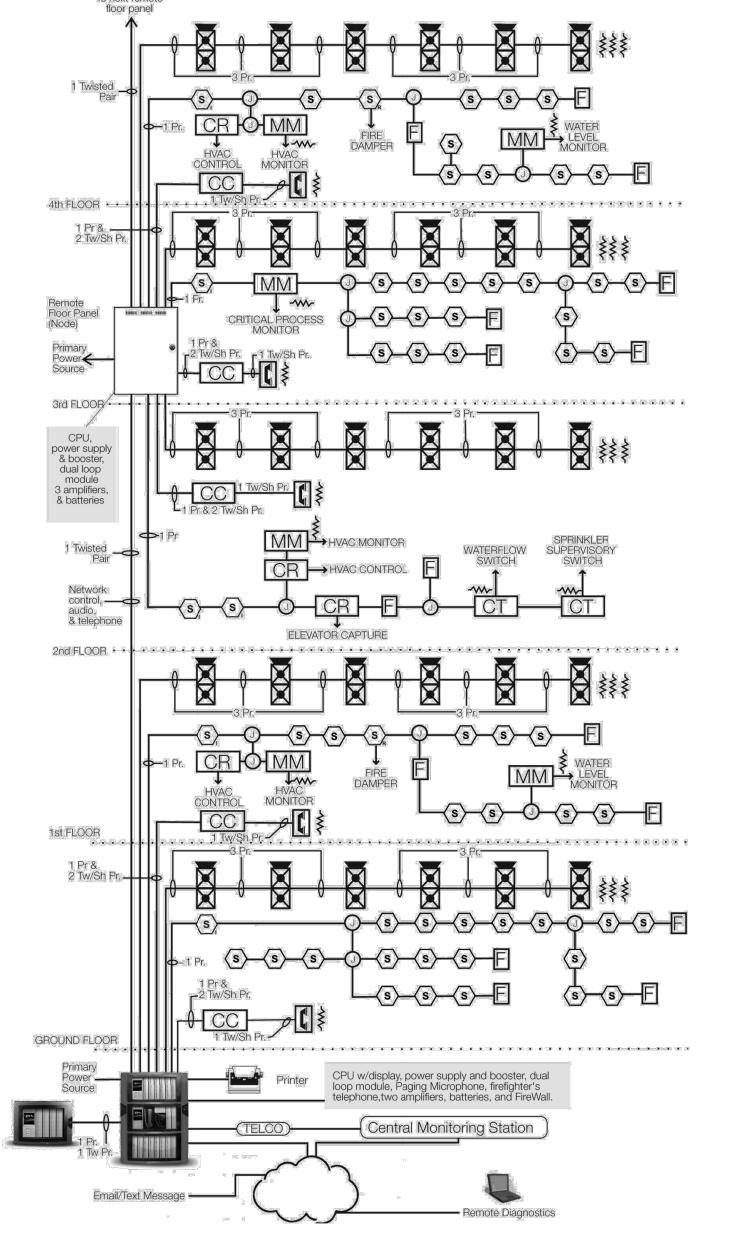
ULC-S527-11 3rd edition - UOJZ, UULK7, SYXV7

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ULC-S576-14 1st edition - PGWM7 ULCS-S559-13 2nd edition - DYR7

Riser Diagram



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System design benefits greatly from this huge capacity. Minimal cabling requirements take scalability a step further. With EST4 a single copper pair or single fiber supports panel network data, audio data, as well as telephone data. This cuts cable counts by up to 75 per cent. Meanwhile, multiple firefighter's telephones risers are accommodated on the network, which allows them to be deployed at much further distances compared with analog audio transmission methods.

Reduced network cabling not only boosts system efficiency by requiring fewer physical connections, it also saves money by reducing material and labor costs. This means that new EST4 installations benefit from lower cable counts, while retrofits may be able to be upgraded to support audio and telephones without the need to pull additional cable.

For new installations EST4 delivers flexibility. It can use twisted pair configuration data exchange – logging events and executing wire, Multi-mode fiber, Single Mode fiber, and even CAT5 cable. In fact CAT5 is not restricted to Class N applications. It also meets the stringent requirements of Class A, Class B, and Class X. When using CAT5, distances are not limited to 328 ft. (100 m). EST4's CAT5 support includes a solution that allow up to 3,280 ft. (1 km) of cable length.

Cybersecurity

Page 3 of 6

The security and integrity of the EST4 network is paramount to its ability to maintain systems operations in the face of outside threats. The most vulnerable point of contact for any integrated building system is where it meets the facility owner's existing TCP/IP network. Ironically it is this gateway, which enhances and expands system capability beyond the communications network, that also exposes the system to some of its most critical vulnerabilities.

To combat outside threats, every EST4 panel can deploy proxy firewalls that effectively insulate the internal fire network from external Intranet or internet connections and the malware, ransom ware, and denial-of-services attacks that may be raging beyond. The EST4 proxy firewall uses Advanced Encryption Standard (AES) encryption and secure protocols making it FIPS Pub 197 certified. The FIPS, Federal Information Processing Standards, are the most current and most advanced encryption protocols administered by the National Institute of Standards and Technology (NIST).

EDWARDS recommends the installation of robust commercial firewall between the facilities intra-net and the Internet. To further enhance network security, an optional tamper switch may be installed on EST4 cabinet doors. This alerts the system when equipment enclosures are accessed.

Programming

EST4 is an open book for authorized programmers. Configuration data travels in both directions: it can be downloaded to the panel and uploaded to a laptop. This two-way movement of configuration files allows technicians to upload and backup programming before making changes to the system. By doing so, the tech ensures that trustworthy restore points are available at all times. Also, should the building owner change service companies, up-to-date system programming data can be retrieved with proper authorization, from the panel by the new maintenance personnel in minutes.

Adding to the integrity of panel configuration is an advanced data transfer routine that does not compromise or interrupt normal system operation. This keeps the system fully functional during programming during the entire process.

EST4's high-performance Configuration Utility (CU) depicts the system in a graphical tree view, which matches the system's physical layout. This provides a familiar format in which to find programming for specific devices, and also does away with the

The EST4 Configuration Utility (CU) also makes short work of configuration downloads to the control panel. It does this through a single firmware download for all modules, and a single database download for all node databases.

EST4's on-board USB ports also make it easy to connect with external devices. The USB ports do away with special cables and RS232-to-USB conversion dongles. It allows direct highdata at transfer rates of up to 480 Mbps. Printers can be connected to panels or remote annunciators for on-site event and report printouts.

are heard loud and clear. This high fidelity messaging, across that responders need to get messages out clearly and concisely.

EST4 live paging capabilities ensure that those messages reach the right people at the right time. In addition to standard paging functions (Page to Evacuation, Page to Alert, All Call, and All Call Minus), EST4 introduces Page to Other and Page to Emergency.

Page to Other is a quick way to reach people in stairwells and elevators, while Page to Emergency is for Mass Notification purposes. This added live paging capability allows responders to reach occupants based not only on their proximity to danger, but also based on their potential to move inadvertently towards specific danger points.

Page 1 of 6

Application From the moment the control panel is powered up it is apparent that EST4 is designed for ease of use. Its powerful user interface bears this out by allowing operators to use the system with a level of fluidity that naturally guides them through high and low level system operations with efficiency and confidence.

Features (continued from page 1)

Hot Swappable Network Connections

Fast configuration updates, local printing.

Advanced Upload/download Protocol

No system down-time during updates.

Firewalls meet the latest Advanced

Front-line defense against threats

carried by outside networks. NIST

Audio reaches occupants based

No intervention by system admin

Change from copper to fiber with

480 Mbps USB Ports on Panels

Self-configuring Network

personnel required.

no system down-time.

Encryption Standards

- AES Validation #4806.

Extended Paging Groups

on location and movement.

20,000-event History

and investigative purposes.

Cabinet Doors may be used

for Nodes and Annunciators

Cabinet Doors may be used for Panels

and Annunciators giving a consistent

appearance, fewer cabinet parts.

Local and Remote Reporting

Generate reports on-site, at system

printers, or remotely via webserver.

Invaluable timeline data for service

EDWARDS

Emergency Communications

EST4 is the premier emergency communications system from

EDWARDS. Though it represents a small change in name from

diminutive. This exciting flagship system features a whole new

network architecture that makes fire alarm, mass notification,

secure in the face of today's cyberthreats.

its predecessor, EST4's leap forward in capability is anything but

and building integration easy to implement, quick to service, and

From its thoughtfully-crafted interface to its advanced connectivity

and extensive system capacity, EST4 demonstrates that form

and function are inseparable elements of good system design.

projects that exceed expectations and have plenty of room

to grow, all while respecting facility budgets and construction

schedules. The net result is an emergency communications

keeps property safe and steers people clear of danger.

It provides systems engineers with the tools they need to create

Platform

Overview

LIFE SAFETY & INCIDENT MANAGEMENT

MOUNT PER DETAIL 4 SHEET E600

EST4 does this by combining the simplicity of color LCD touchscreen technology with at-a-glance programmable color display strips and tactile direct-access control buttons. These input points, together with meticulously-engineered responder

and service functionality, allow EST4's interface to provide clear navigation paths, instant-access shortcuts, and context-sensitive display screens. This means that responders have quick access to vital system event information and control functions, while service personnel can dive deeply into system programming unencumbered by complicated operational routines.

EST4's LCD large touch-screen display is the window into system operation and maintenance functions. It is large enough to support a graphical tree view of the system. The tree closely matches the system's physical layout, so there's no need for look-up tables to find specific devices. This is invaluable to technicians and building service personnel who can pinpoint the location of an off-normal device with

a glance at the on-screen tree. The EST4 LCD is capable of displaying 262,144 colors, EST4's LCD display screen will display eight events without scrolling. In addition to touch-screen capability, the display assembly includes four dedicated easy-access rubber buttons for control functions most needed for emergency response.

Up to 576 tactile switches and 576 LED indicators may be mounted in a single EST4 cabinet for control and annunciation purposes. Control Display Modules (CDMs), comprise

a column of programmable buttons accompanied by one or two LED indicator positions per button. Indicator-only modules comprise up to 24 indicators. Switch and indicator module LEDs can be set to any of five colors, providing an additional level of feedback.

Print-anywhere slide-in label inserts give control/display strips context with color-coded shading and other effects. They can be Large Full-color LCD Touch Screen with Tactile Buttons Fast, intuitive access to service and responder functions.

Features

On-board Webserver

 Five-color LED Indicators System status at a glance, select the color needed system equally suited to new and retrofit projects; a platform that during programming, reduces replacement part

> Network data, audio data, and telephone data share a single twisted pair or single fiber strand Up to 75 percent less cabling, substantial cost savings in material and labor.

inventory, maximizes use of available infrastructure.

Investment-forward Platform Designed for the Future

Remote device-independent access to system status reports.

Protects the past with backwards compatibility

Built-in E-mail and E-mail-to-SMS Messaging

Instant notification of specific event types

sent to appropriate personnel.

for EST3 retrofits, flexible feature set.

Backwards Compatibility with EST3 Wiring, devices, and most local rail modules are backward compatible, providing easy migration paths, economical transition to new technology

Remote access and notification

System access to EST4 doesn't end when the cabinet

door swings shut. A webserver in each EST4 panel allows

authenticated users to gain access to day-to-day reporting.

EST4 webservices are device-independent and support all major

browsers on PC and MAC operating systems, including mobile

 Existing Systems Supporting only Network Data can also Support Voice Audio Upgrades add value and extend capabilities in retrofit situations.

continued on next page...

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EDWARDS® Catalog ► Large Life Safety Platforms

(ULC)

7165-1657



platforms – without the need for special apps or other software. Users can log into the secure EST4 webserver and run system reports. Like any web page, system reports can be copied, printed, saved, and e-mailed. The system report data can also be saved in XML form and used in external spreadsheet applications for

> further processing. EST4 keeps up with the fast pace of mobile computing with its built-in e-mail services and e-mail-to-textmessage capabilities. These ensure that key personnel receive instant notification of relevant changes of system state. Technicians can be dispatched to the site within minutes of a service event, while safety and security personnel can arrive concurrently with first responders should the system go into alarm.

Supporting these important interface

developments is a robust system

Networking

underpinned by solid networking and exceptional security. Thanks to its self-configuring network, EST4 easily deploys and configures without intervention by network administration personnel. It adapts to a wide range of network configurations, including rings, stars, redundant segment, and full mesh topology. The network even allows changes in the physical layer from copper to fiber, and employs hotswappable network connections at control panels and annunciators. All this improves network reliability and saves money at installation time and throughout the equipment's life cycle. The advanced technology behind

EST4's network is powerful enough to drive the biggest installations viable today. It pushes wire runs into miles, and addressable points into the many of thousands. A single IPv6 or mesh network, for example, can support copper wire runs of nearly a mile between nodes puts detection, alarm, notification, and audio into the furthest reaches of the tallest buildings and broadest campuses. Fiber optic cable handles multiple miles between nodes, while carrying all system data on a single fiber strand.

> LK/DS CHECKED: SHEET NUMBER

IF THIS SHEET IS NOT 30" X 42", IT IS NOT FULL SIZE, SCALE ACCORDINGLY L.A.I.# 21-375

need for look-up lists when, for example, devices need to be taken out of service because of site specific activities. The programming tool also features a context-sensitive Intellisense rule editor, which checks for syntax and semantic programming errors in real time.

speed connection with laptops for the exchange of configuration

Nothing informs building occupants better than the spoken word, and EST4's highly intelligible voice audio ensures that those words EST4's impressive capacity of 100 channels, provides the flexibility

EST4 live paging also lets responders select individual paging groups as well as combinations of groups. This allows them to reach people in Alert and Evacuation zones simultaneously without having to page one group, and then page the other.

localized for regional language requirements, and printed on-thefly to accommodate system changes as they are implemented.

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REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 07/11/2024

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IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

APP: 03-123218 INC:

AMADOR WHITTLE ARCHITECTS, INC.

> 28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301

(805) 530-3938 , (818) 874-0071

Ventura County Community College

MOORPARK COLLEGE ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD MOORPARK, CA 91320

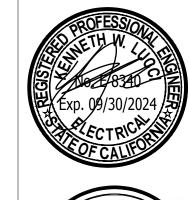
CONSULTANT | LUBB| & 133UBL1743 | LUB

PROJECT TITLE

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 FAX (805) 389-6519 (805) 389-6520 **LUCCI & ASSOCIATES, INC.** reserve their commonlaw copyright

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STAMPS/SEALS





12/08/2023 - DSA RESUBMITTAL

SHEET TITLE: EST4

EMERGENCY COMMUNICATIONS PLATFORM CUT SHEETS

21-MPC-040 PROJECT

3-EVDVRX Plastic mounting extrusion 19" mounting - for up to 3 3-EVDVRAs. See Note 3. Note 1: Refer to Catalog Sheet part number E85014-0008 for a complete list and description of available Network Controllers. Note 2: Refer to Catalog Sheet part number E85014-0006 for a complete description of Control Display Modules.

Fills one indicator/switch space on inner doors when no Switch or LED strips are installed

Audio paging microphone. Requires 4-ANNAUDTEL support card be installed on the 4-ANNCPU card.

Power Supply Assembly c/w 19 inch rail mounting chassis assembly space for one 4-CPUGRPH for

Master Fire Fighters telephone. Requires a 4-ANNAUDTEL support card be installed on the 4-ANNCPU card.

Annunciator Audio/Telephone interface module. Adds audio and telephone processing capabilities to the 4-ANNCPU,

0.3lb (0.14kg)

4-24L18S Control Display Module with - 24 indicators and 18 switches See Note 2.

4-24L24S Control Display Module with - 24 indicators and 24 switches. See Note 2.

Can be mounted in 4-4ANN through 4-24ANN annunciators

Can be mounted in 4-4ANN through 4-24ANN annunciators.

3-EVDVRA LED/SWITCH Driver Module Assembly for Third-party Graphics. See Note 3

4-CPUGRPH Graphic Annunciator Central Processor Module. See Note 3.

Third-party Graphics. See Note 3.

required for the use of the 4-MIC and/or 4-FT with the 4-ANNCPU.

LED/SWITCH Driver Module Assembly for ENVOY graphics. See Note 3.

3-EVPWR Power Supply Assembly space for one 4-CPUGRPH for ENVOY Graphics. See Note 3

EDWARDS

3-EVDVR

Note 3: SKU not FM approved.

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Orderin	g Information, wallboxes and re	eplacement parts
Model # (SKU)	Description	Shipping Weight

Mounting assembly for 4-2ANN, two wide annunciator. Supports

4-2ANNMT surface or semi-flush mounting. Comes with black wallbox, 6.4lb (2.9kg)

surface mounting plastic fillers and semi-flush trim.

	surface mounting plastic liliers and serni-lidsh trim.	
4-4ANNMT	Mounting assembly for 4-4ANN, four wide annunciator. Supports surface or semi-flush mounting. Comes with black wallbox, surface mounting plastic fillers and semi-flush trim.	9.0lb (4.08kg)
4-6ANNMT	Mounting assembly for 4-6ANN, six wide annunciator. Supports surface or semi-flush mounting. Comes with wallbox, surface mounting plastic fillers and semi-flush trip.	10.3lb (4.67kg)
4-8ANNMT	Mounting assembly for 4-8ANN, four wide x two row high annunciator. Supports surface mounting.	19.0lb (8.62kg)
3-CAB5B	Wallbox – Black Semi-flush wallbox, ideal for use when semi-flush mounting 4-8ANN annunciators.	20.0lb (9.07kg)
4-16ANNMT	Surface Mount Wall box assembly for eight wide by two high annunciators (16 spaces)	27.0lb (12.25kg)
3-CAB7B	Wallbox – Black Semi-flush wallbox, ideal for use when semi-flush mounting 4-16ANN annunciators.	29.5lb (13.38kg)
4-24ANNMT	Surface mount wallbox assembly for eight wide by three high annunciator (24 spaces).	37.0lb (16.78kg)
3-CAB14B	Wallbox – Black Semi-flush wallbox, ideal for use when semi-flush mounting 4-24ANN annunciators.	40.8lb (18.5kg)
Service Repla	acement Parts	
4-2ANND	Service replacement Bronze Annunciator Door for 4-2ANN annunciators includes the inner and outer doors.	7.7lb (3.5kg)
4-4ANND	Service replacement Bronze Annunciator Door for 4-4ANN annunciators includes the inner and outer doors.	10lb (4.5kg)
4-6ANND	Service replacement Bronze Annunciator Door for 4-6ANN annunciators, includes the inner and outer door	11lb (5kg)
4-CAB8D	Service replacement Bronze door for 3-CAB5B or 4-8ANNMT - four spaces wide by two high (8 spaces) Includes inner (black) door and outer bronze door.	23lb (10.4kg)
4-CAB8DR	Red door for 3-CAB5B - four spaces wide by two high (8 spaces). Includes inner (black) door and outer red door. May be used to provide a red door for 4-8ANN annunciators.	23lb (10.4kg)
4-CAB16DR	Red door for 3-CAB7B - eight spaces wide by two high (16 spaces). Includes inner (black) door and outer red door. May be used to provide a red door for 4-16ANN annunciators.	36lb (16.3kg)
4-CAB24DR	Red door for 3-CAB14B - eight spaces wide by three high (24 spaces). Includes inner (black) door and outer red door. May be used to provide a red door for 4-24ANN annunciators	51lb (23.1kg)
4-2ANNFA	Service replacement part - plastic frame assembly with mounting screws for 4-2ANN annunciators	1.5lb (0.68kg)
4-4ANNFA	Service replacement part - plastic frame assembly with mounting screws for 4-4ANN annunciators.	2lb (0.91kg)
4-6ANNFA	Service replacement part - plastic frame assembly with mounting screws for 4-6ANN annunciators.	2lb (0.91kg)
4-4X2ANNFA	Service replacement part – plastic frame assembly with mounting screws for 4-8ANN annunciators and 4-CAB5D door assemblies.	3lb (1.36kg)
4 0 A NINIEA	Service replacement part - plastic frame assembly with mounting	21b (1 26kg)

screws for 4-CAB16D and 4-CAB21D(L) door assemblies.

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Dimensions, door assemblies continued 4-6ANN Series Door Assembly 4-CAB24D Series Door Assembly 2.20 in. (5.60 cm) 4-CAB24D installed on a 3-CAB14B wallbox. Can be surface mounted or simi-flush mounted. I-CAB24D installed on a 4-24ANNMT wallbox. Can be surface mounted only. Wiring

Supports any

combination of SFP

network controllers

To next SFP. Use

appropriate SFP

network controller to

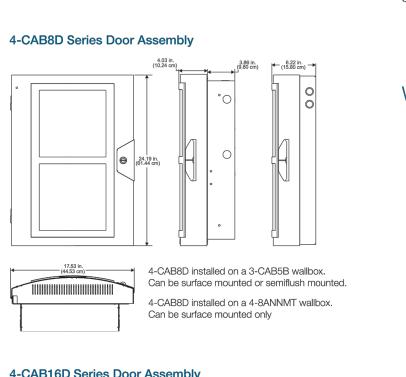
match installed cable

From previous SFP. Use

controller to match

installed cable

appropriate SFP network



0.7lb (0.29kg)

0.7lb (0.29kg)

0.1lb (0.04kg)

1.2lb (0.54kg)

1.4lb (0.64kg)

0.4lb (0.18kg)

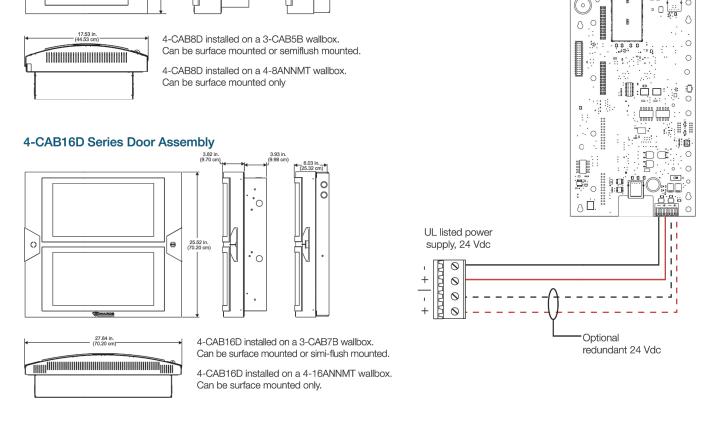
0.2lb (0.09kg)

2.9lb (1.34kg)

0.9lb (0.41kg)

DATA SHEET **E85014-0003**

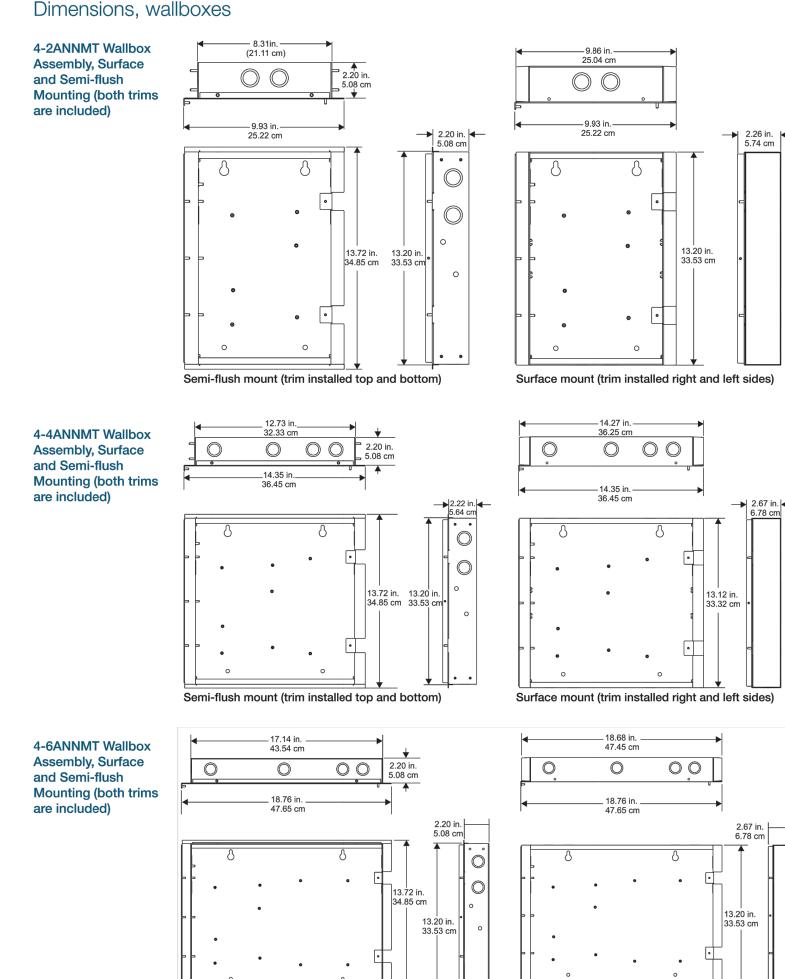
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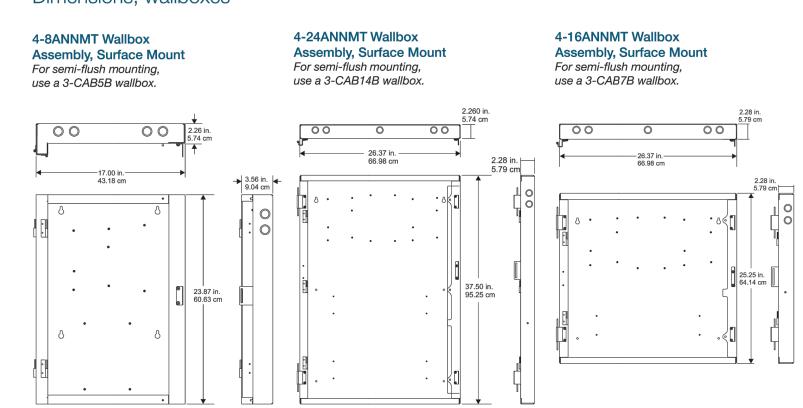
Model #	Description	Network Interconnection Media Supported		Single-mode fiber-optic	Bi-directional, single-mode fiber-optic with a 9/125 μ (G.652) fiber up to 6.2
4-NET-CAT	100 Mbps SFP Network Controller	Cable type - Cat 5e or better Connector type - RJ-45 Distance 328 ft. (100 m) max	4-NET-SMU	SFP Network Controller Bi-Directional	miles (10 km). The 4-NET-SMU must be paired with a 4-NET-SMD over one single-mode fiber between network cards.
4-NET-MM	Multi-mode fiber-optic	SFP network media interface, multi-mode fiber-optic, supports 50/125 µ (OM3/OM4) fiber pair up to 1.24 mi. (2 km), 62.5/125 µ (OM1) fiber pair up to 0.62 mi. (1 km), or a 100/140 µ fiber pair up to 150 m. Order one 4-NET-MM for	4-NET-SMD	Single-mode fiber-optic SFP Network Controller Bi-Directional	Bi-directional, single-mode fiber-optic with a 9/125 μ (G.652) fiber up to 6.2 miles (10 km). The 4-NET-SMD must be paired with a 4-NET-SMU over one single-mode fiber between network cards.
4-IVL I-IVIIVI	SFP Network Controller	"in" wiring and one for "out" wiring for connections from previous node and to next node as required. Each 4-NET-MM supports one multi-mode fiber pair between network cards.	4-NET-TP	2 Mbps Twisted Pair SFP Network	Twisted pair. Following specifications are between any two panels. 16 to 22 AWG (1.3 to 0.33 mm²) Six twists per foot minimum Circuit Capacitance 0.09 µF max
	Single-mode	Single mode 9/125 µ (G.652) fiber pair up to 6.2 miles (10 km). Order one 4-NET-SM for "in" wiring from the		Controller	 5,000 ft. (1,524 m) between any two panels Circuit resistance 90 Ω max.
4-NET-SM	fiber-optic SFP Network Controller	previous node and a second 4-NET-SM for "out" network wiring to the next node. Each 4-NET-SM supports one single-mode fiber pair between network cards		0.3 Mbps	Twisted pair or Shielded twisted pair. Following specifications are between any two panels. • 16 to 24 AWG (1.3 to 0.20 mm²) • Six twists per foot minimum
4-NET-SMH	Single-mode fiber-optic SFP Network Controller High output	Single-mode fiber-optic, high-power output, with a 9/125 µ (G.652) fiber pair up to 24.8 mi (40km). Order one 4-NET-SMH for "in" wiring from the previous node and a second 4-NET-SMH for "out" network wiring to the next node. Each 4-NET-SMH supports one single-mode fiber pair between network cards.	4-NET-TP- HC	Twisted Pair SFP Network Controller	 5,000 ft. (1,524 m) between any two nodes with unshielded twisted pair Circuit capacitance 0.3 μF max. 3280 ft. (1,000 m) between any two nodes shielded twisted pair Circuit resistance 90 Ω max. for additional details on SFP network controllers.

Annunciator Assemblies Each annunciator space holds a cor	ntrol-display module. LCI	O displays, 4-MIC and 4	-FT take two spaces.			
	4-2ANN	4-4ANN	4-6ANN	4-8ANN	4-16ANN	4-24ANN
Number of Spaces	Two	Four	Six	Eight	Sixteen	Twenty-four
Wallbox, Surface Mounting	4.000000	4.445151547	4. ANININAT	4-8ANNMT	4-16ANNMT	4-24ANNMT
Wallbox, Semi-flush Mounting	4-2ANNMT	4-4ANNMT	4-ANNMT	3-CAB5B	3-CAB7B	3-CAB14B
Agency Approvals:			UL, ULC,	CSFM, FM		
Door Color			Bro	onze		
					:	
Wallbox Color 4-ANNCPU Central Processor Comes standard with annunciator a Voltage			Bl	ack		
4-ANNCPU Central Processo			Bl	ack		
4-ANNCPU Central Processo Comes standard with annunciator a Voltage	ssemblies.		Bl	ack		
4-ANNCPU Central Processo Comes standard with annunciator a Voltage	ssemblies. 16 to 32Vdc 183 mA at 16 VDC	; 125 mA at 24 VDC ; 125 mA at 24 VDC	; 119 mA at 32 VD0			
4-ANNCPU Central Processo Comes standard with annunciator a Voltage Current draw Standby Alarm/Active	ssemblies. 16 to 32Vdc 183 mA at 16 VDC	; 125 mA at 24 VDC e A – female port	; 119 mA at 32 VD0			
4-ANNCPU Central Processor Comes standard with annunciator a Voltage Current draw Standby Alarm/Active USB support	16 to 32Vdc 183 mA at 16 VDC 188 mA at 16 VDC One USB 3.0, Type One USB 3.0, Type	; 125 mA at 24 VDC e A – female port	; 119 mA at 32 VD0 ; 124 mA at 32 VD0))	eet 85014-0008 for	details.
4-ANNCPU Central Processor Comes standard with annunciator a Voltage Current draw Standby Alarm/Active USB support SFP support	ssemblies. 16 to 32Vdc 183 mA at 16 VDC 188 mA at 16 VDC One USB 3.0, Type One USB 3.0, Type Supports all 4-NET	; 125 mA at 24 VDC e A – female port e B – female port	; 119 mA at 32 VD0 ; 124 mA at 32 VD0 to EST4 Network Co	ontrollers Catalog sh	eet 85014-0008 for	details.
4-ANNCPU Central Processor Comes standard with annunciator a Voltage Current draw Standby Alarm/Active USB support SFP support Wire Size	ssemblies. 16 to 32Vdc 183 mA at 16 VDC 188 mA at 16 VDC One USB 3.0, Type One USB 3.0, Type Supports all 4-NET	e; 125 mA at 24 VDC e A – female port e B – female port series SFPs. Refer to connection 12 to 18	; 119 mA at 32 VD0 ; 124 mA at 32 VD0 to EST4 Network Co	ontrollers Catalog sh	eet 85014-0008 for	details.
4-ANNCPU Central Processo Comes standard with annunciator a Voltage Current draw Standby	ssemblies. 16 to 32Vdc 183 mA at 16 VDC 188 mA at 16 VDC One USB 3.0, Type One USB 3.0, Type Supports all 4-NET TB1 backup powe	; 125 mA at 24 VDC e A – female port e B – female port series SFPs. Refer to r connection 12 to 18	; 119 mA at 32 VD0 ; 124 mA at 32 VD0 to EST4 Network Co	ontrollers Catalog sh	eet 85014-0008 for	details.

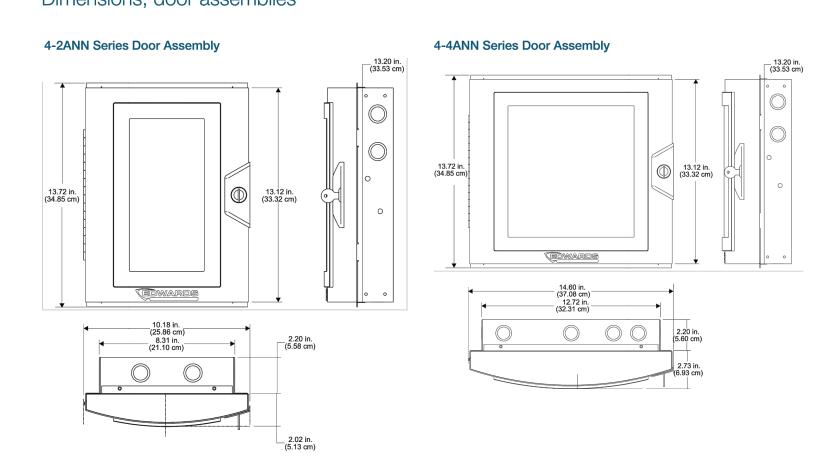


Semi-flush mount (trim installed top and bottom) Surface mount (trim installed right and left sides) **DATA SHEET E85014-0003** Not to be used for installation purposes. Issue 2.1

Dimensions, wallboxes



Dimensions, door assemblies



DATA SHEET **E85014-0003** Page 4 of 8

Not to be used for installation purposes. Issue 2.1

EDWARDS® Catalog ► Large Life Safety Platforms

LIFE SAFETY $\mathscr G$ INCIDENT MANAGEMENT

EST4 Remote Annunciators 4-xxANN Series



Overview

EST4 Remote Annunciators provide front panel system status and control functions located conveniently anywhere on the EST4 network. Annunciators can be as simple as a couple of LED indicator strips, or complex enough to support up to two LCD displays, an audio telephone interface, and hundreds of control points and indicators — all in a single enclosure.

Up to 576 tactile switches and 576 LED indicators may be mounted in a single EST4 annunciator cabinet. Control Display Modules (CDMs), comprise a column of programmable buttons accompanied by one or two LED indicator positions per button Indicator-only modules hold up to 24 indicators. Switch and indicator module LEDs can be set to any of five colors, providing an additional level of feedback.

All remote annunciators feature color-matched cabinets and distinctive bronze doors for a readily-identifiable and consistent look throughout the facility.

Thanks to EST4's ingenious communications protocol, network data — as well as telephone and audio data — is carried on a single fiber optic cable or twisted wire pair. This multi-use capacity has an enormous cost-savings potential compared with conventional audio transmission, reducing not only installation costs, but also simplifying ongoing system maintenance.

Slide-in LED and switch labeling makes it easy to incorporate right into the annunciator design such information aids as descriptive text, color-coding, icons, and local languages. For custom floorplans or facility maps, EST4 offers LED driver boards perfectly suited to operate in most graphic annunciators.

4-2ANN and 4-4ANN shown with optional

Standard Features

- Connection Over High-speed Life Safety Network Annunciator network and audio data carried on a single fiber or twisted pair.
- Optional Color LCD Display Touch screen capability supplements control buttons for quick,
- intuitive access to key system status and control functions. Wide Range of Annunciator Configurations From a two-slot model holding a single LCD display to 24-slot
- cabinets for complex annunciation. Supports Two LCD Displays
- Providing users with a simplified sequence of operations.
- Convenient Programming
- Built-in support for radio groups of up to 24 switches in size. Slide-in Switch and Indicator Labels

A simple, effective means to customize annunciator

- Programmable LED Flash Rates and Colors
- Easy to see, quick to understand. Clean and robust door designs

appearance and messaging.

CAT5 cable.

 Support for all Common Networking Media Annunciators connect over any combination of twisted pair wire, Multi-mode fiber, Single Mode fiber, and even

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Application

Use EST4 remote annunciators where a compact system status display is needed. Annunciator configuration can range from a couple of LED indicator strips, to complex arrangements supporting in a single enclosure up to two LCD displays, paging microphone, firefighter telephone and hundreds of control points and indicators.

EST4 annunciators support a range of options that make them ideal for Mass Notification, Life Safety and other emergency communications purposes. They can be used as Central Control Stations (CCS), Autonomous Control Units (ACU), Local Operating Console (LOC), and combination units from which initiated Mass Notification functions can be controlled.

Cabinets may be surface or semi-flush mounted for installation expediency and aesthetic appeal.

Annunciators connect over the high-speed EST4 network, which supports copper or fiber-optic communications in any combination. Network data and audio data share the same cabling. This results in more efficient deployment with fewer cables needed and fewer connections to be made.

The 2 wide, 4 wide, and 6 wide, 4-xANNMT series, annunciator wallboxes come standard with surface mounting trims and semi-flush mounting trims.

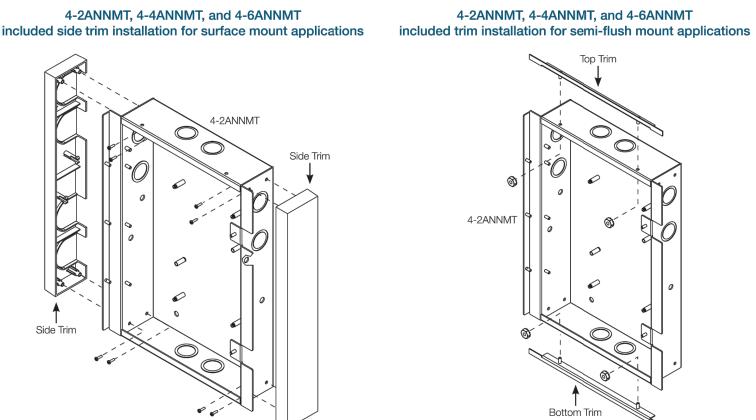
The 8 space, 16 space and 24 space 4-xxANNMT series wallboxes are designed for surface mount applications. Their depth is kept to a minimum to allow the least amount of room penetration. When semi-flush mounting is required, order the standard 3-CAB5B, 7B, or 14B wallbox.

Engineering Specification

The Life Safety system shall incorporate annunciation of Alarm, Supervisory, Trouble and Monitor operations. Annunciation must be through the use of both LED display strips complete with a means to custom label each LED as to its function. LED color shall be selectable at configuration time. Where applicable control switches must be provided. Switches with LEDs must provide positive feed back to the operator of remote equipment status. A color touchscreen LCD display with basic common control LEDs and switches shall be provided. Optionally a second color touchscreen display may be added to support audio and telephone operations. The Common Control Switches and LEDs provided as minimum will be: Reset switch and LED, Alarm Silence switch and LED, Panel Silence switch and LED, Drill switch and LED. It must be possible to add additional common controls as required through the use of modular display / control units. The LCD must provide the emergency user, hands free viewing of the first highest priority event. System events must automatically be placed in queues. It shall be possible to view specific event types separately. The total number of active events by type must be displayed. It must be possible to customize the designations of all user interface LEDs and switches for local language requirements. It must be possible to route system event messages to specific annunciator locations. It must be possible for the annunciator to

contain a paging microphone and fire fighter telephone.

Installation and Mounting



See Specifications Table for 4-8ANNMT, 4-16ANNMT, 4-24ANNMT mounting options.

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MOORPARK COLLEGE

Ventura County Community College

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

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AMADOR WHITTLE

ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203

AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

APP: 03-123218 INC:

ADMINISTRATION BUILDING RENOVATION

> 7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTANT

PROJECT TITLE

| CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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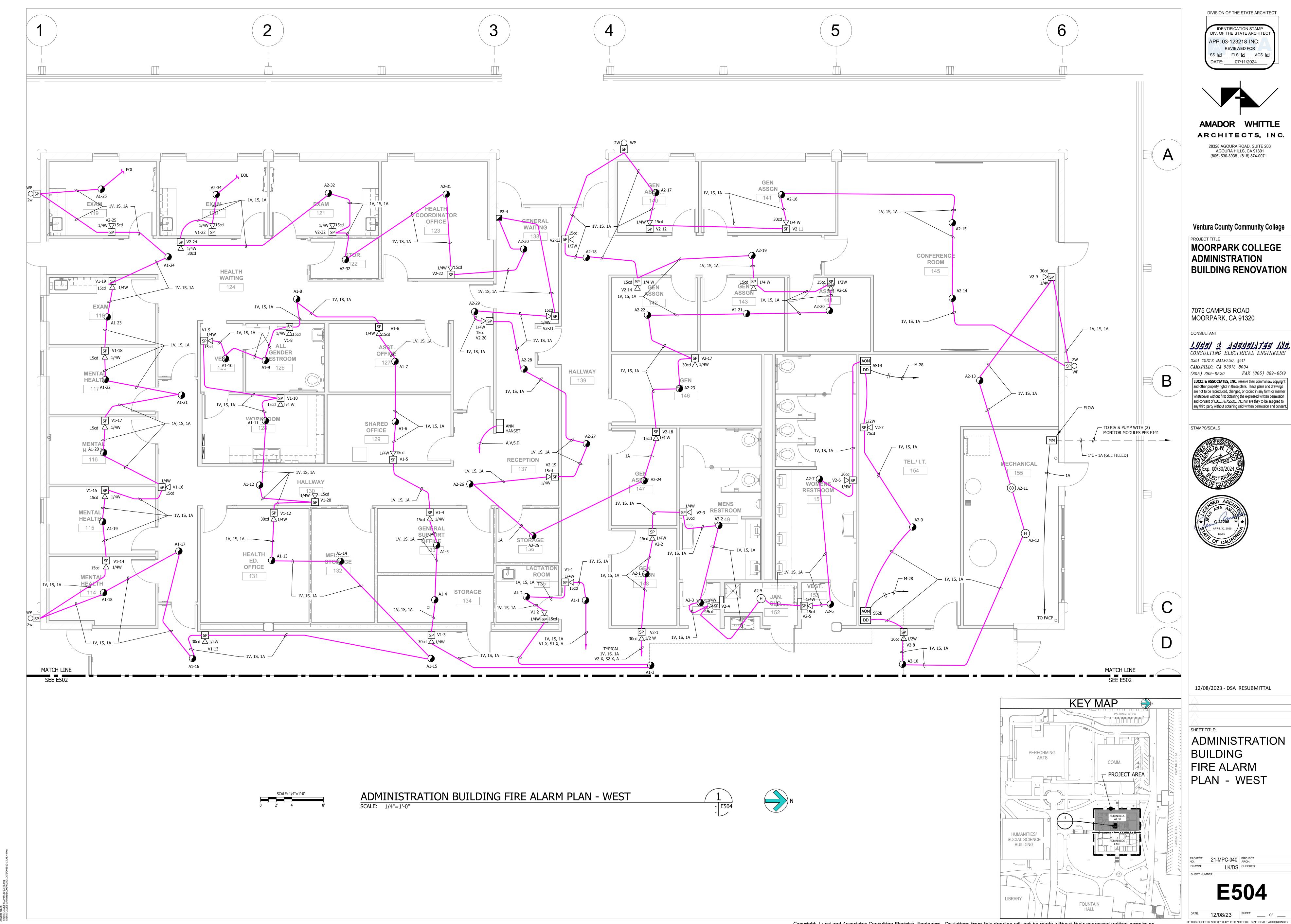
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SHEET TITLE: EST4 REMOTE ENUNCIATOR CUT SHEETS

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

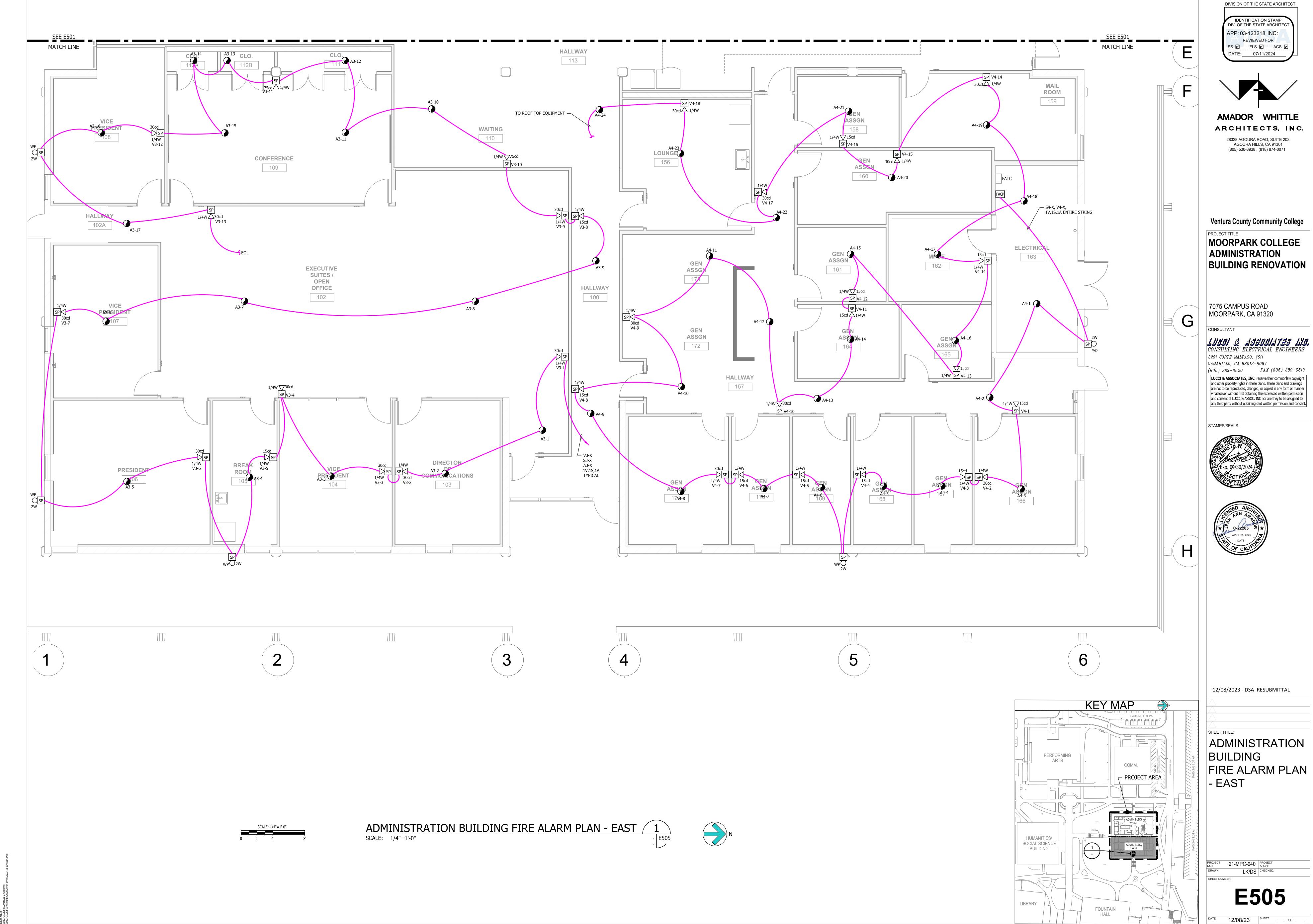
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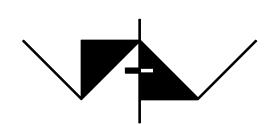
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FIRE ALARM PLAN ON ROOF

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FOUNTAIN HALL

PERFORMING

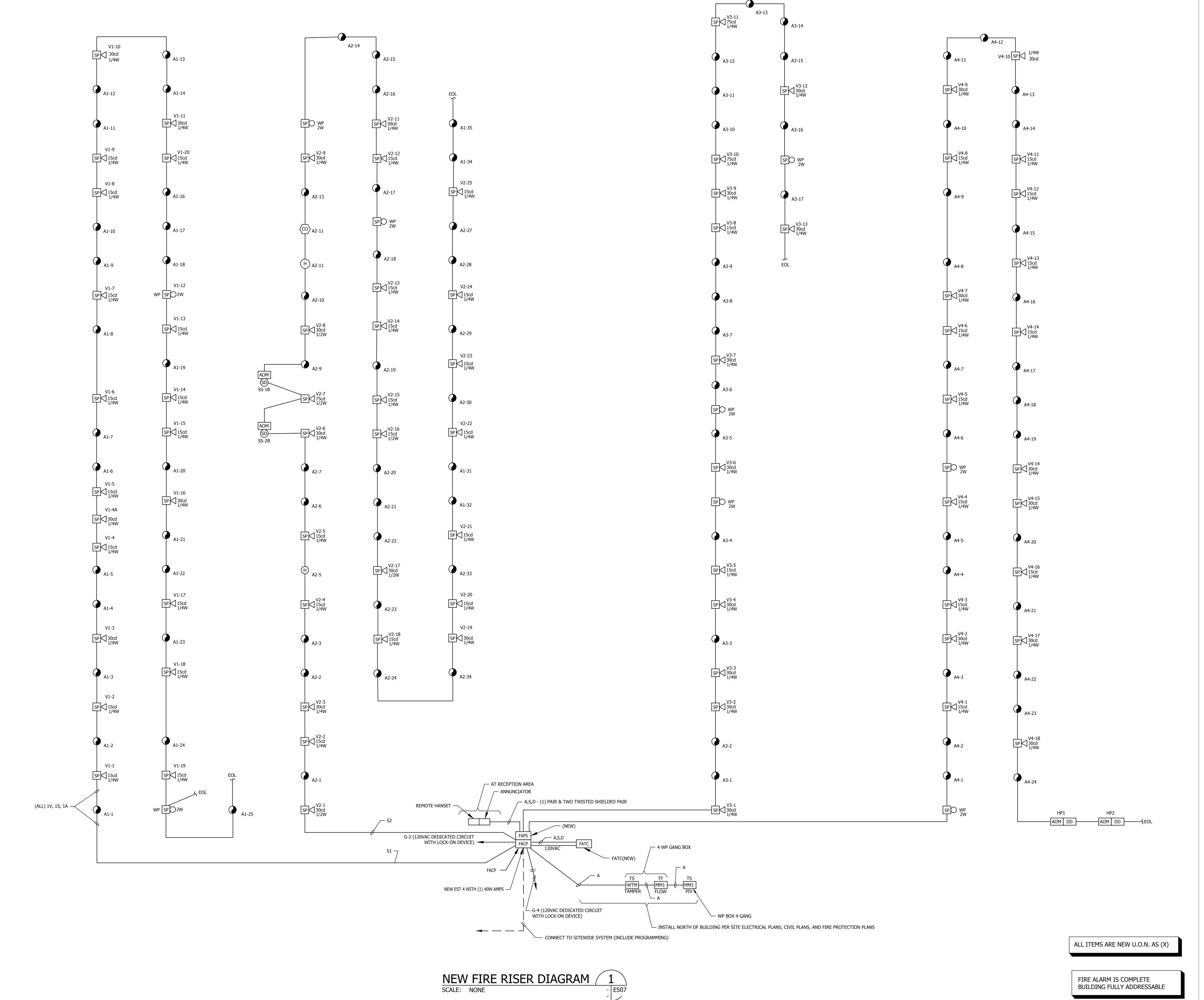
HUMANITIES/

SOCIAL SCIENCE BUILDING

LIBRARY

KEY MAP

¬ PROJECT AREA



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PROJECT TITLE MOORPARK COLLEGE **ADMINISTRATION BUILDING RENOVATION**

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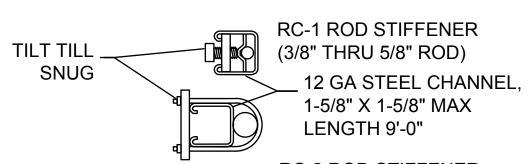
NEW FIRE ALARM RISER DIAGRAM

21-MPC-040 PROJECT ARCH:

L.A.I.# 21-375

E507





FOR MORE INFORMATION ON STRUCTURAL SUPPORT SEE STRUCTURAL PLANS SHEET 33/S022 AND 16/S021

RC-2 ROD STIFFENER (1/2" THRU 1-1/4" ROD)

DETAIL C

3/8" DIA THRU BOLT W/ NUT & WASHER -**B-LINE B12A DOUBLE** CHANNEL STRUT-___ 2" MAX (N) OR (E) BEAM PER STRUCT PLAN -**B-LINE B-22 STRUT DBL NUT & WASHER** 60"MAX W/ B-LINE B327 BENT ANGLE AT EACH END W/ 1/2" BOLTS MAX LENGTH 1/2" ROD HANGER ADD SEE 33/S022 FOR LONGITUDINAL BRACE REQUIREMENTS **ROD STIFFENER WHEN ROD EXCEEDS 24"** MAX. PIPE SIZE 4" BRACE @ 20 FT OC MAX MAX SPAN BTW SUPPORTS - 8 FT BRACE AT 40 FT ON CENTER & CHANGE OF PROVIDE B-LINE B3170CT CLEVIS PIPE HANGER DIRECTION. PROVIDE TRANSVERSE AND B-LINE B3170CTC 1F AT COPPER PIPING LONGITUDINAL BRACES PROVIDE 2 PIECE PIPE CLAMPS (BY B-LINE,

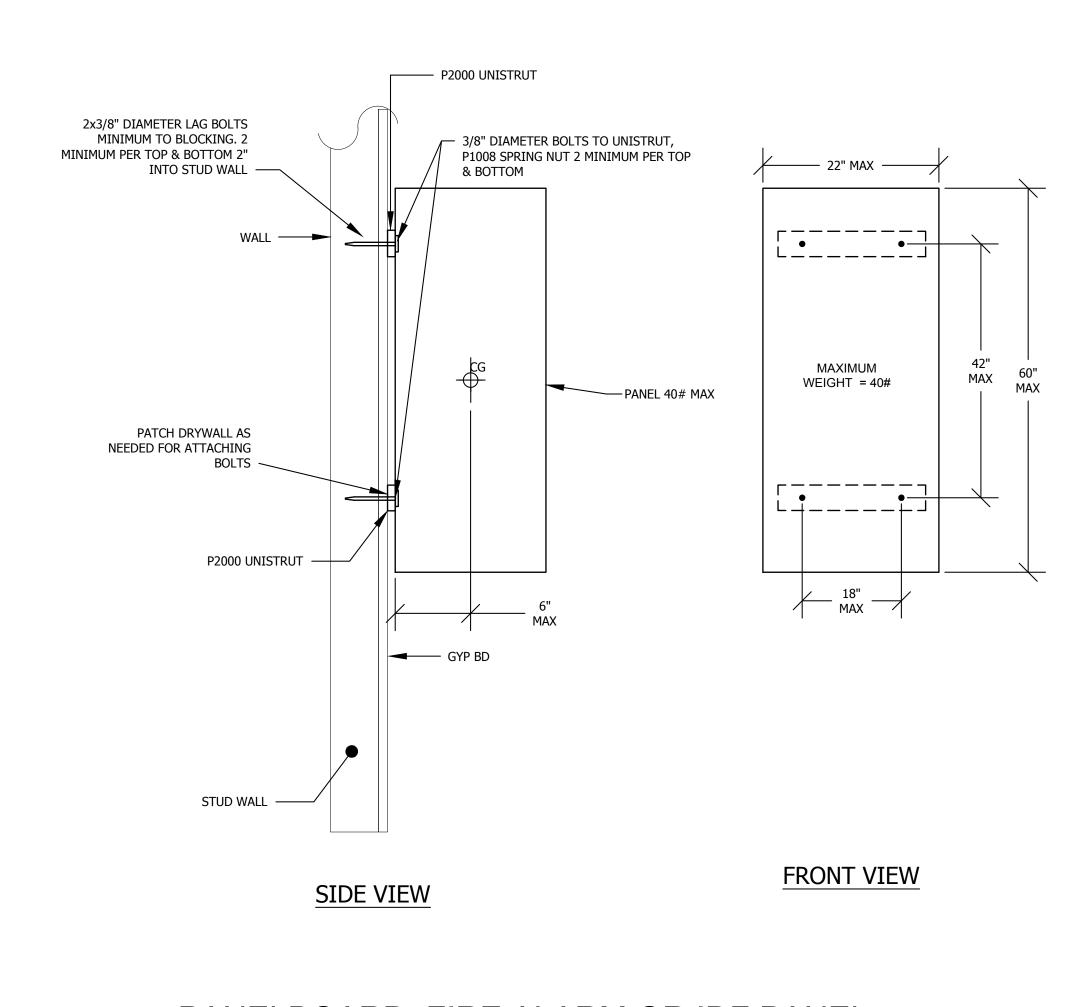
CONDUIT SUPPORT

B-LINE B12A DOUBLE CHANNEL STRUT (N) OR (E) BEAM PER STRUCT PLAN — -3/8" DIA THRU BOLT B760-22A BLINE BEAM CLAMP SYSTEM W/ NUT & WASHER DBL NUT & WASHER (TYP) -45° MAX 48" MAX LENGTH B-LINE B-22 STRUT W/ BENT STEEL STRUT ANGLE FITTINGS AT EACH END. ADD ROD STIFFNERS WHEN LONGITUDINAL BRACING SIMILAR ROD EXCEEDS 24" IN LENGTH INSTALL LONGITUNDAL BRACE AT EACH SIDE SEE DETAIL C ON THIS SHEET OF STRUT SUPPORT INSTALL AT 40 FEET OC AND AT CHANGE OF B-22 STRUT MAX. SPAN-48" 1/2" ALLTHREAD - B-LINE PIPE CLAMPS (TYP) W/ STRUT NUTS AT EACH SIDE (6) MAX. CONDUIT, 4" MAX. DIAMETER

UNISTRUT, OR EQUIV.) AT LONGITUDINAL BRACES

TYPICAL CONDUIT SUPPORT DETAILS SCALE: NONE

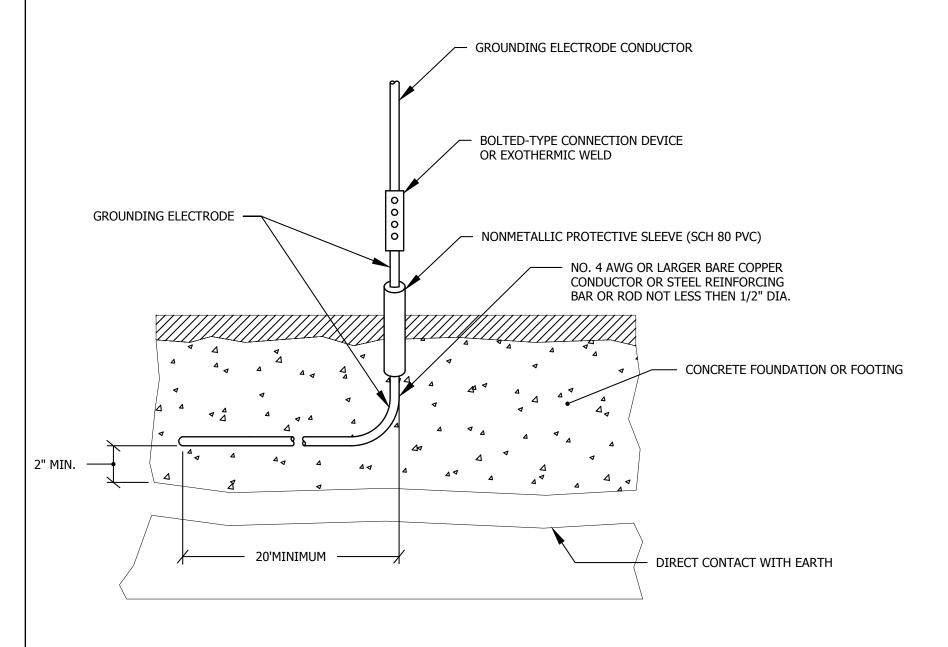
CONDUIT TRAPEZE SUPPORT



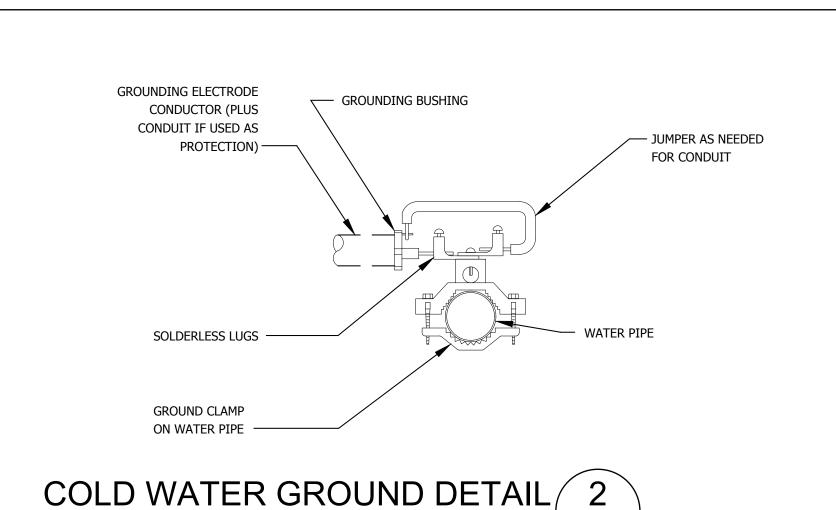
PANELBOARD, FIRE ALARM OR IDF PANEL ANCHORAGE WOODEN WALL - SURFACE SCALE: NONE

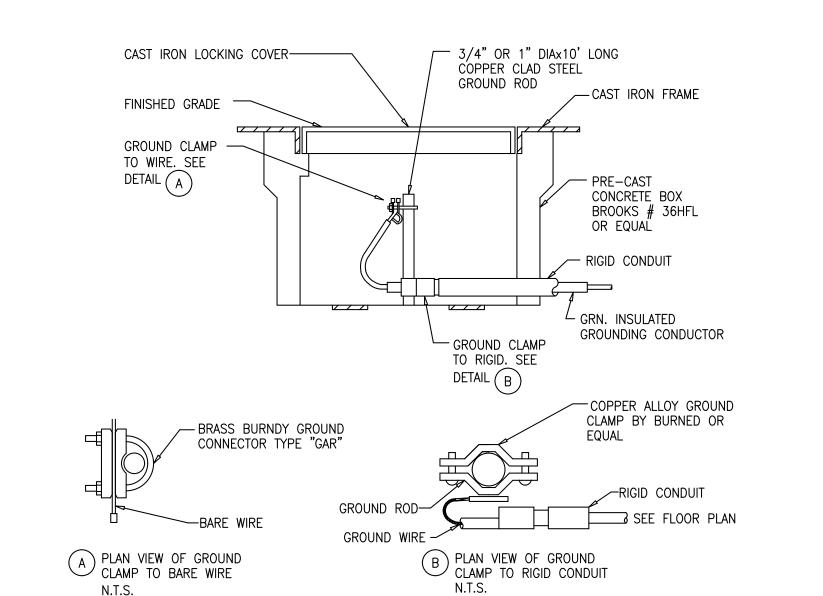
DETAIL NOTES:

1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50.8MM) OF CONCRETE. LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1//2 INCh (12.7 MM) DIAMETER, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THEN #4.



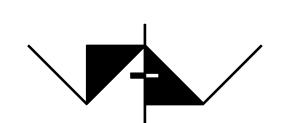






GROUND ROD AND PRE-CAST CONCRETE BOX DETAIL - E600 SCALE: NTS

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SHEET TITLE:

ELECTRICAL DETAILS

21-MPC-040 PROJECT ARCH: LK/DS CHECKED:

L.A.I.# 21-375

E600

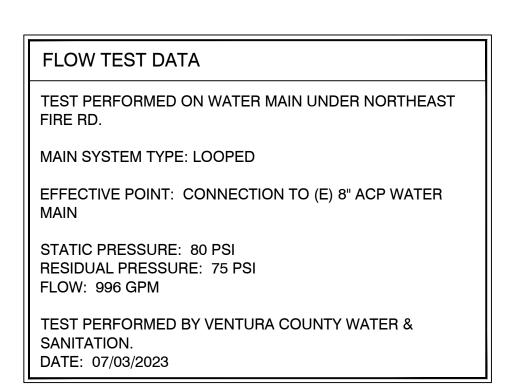
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SCALE: NONE

GENERAL NOTES

DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:

- CALIFORNIA BUILDING CODE (CBC), 2022 EDITION
- CALIFORNIA FIRE CODE (CFC), 2022 EDITION
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
- NO CHANGES TO THE "FP" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEP" FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FP" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY THE AHJ.
- THE SPRINKLER SYSTEMS IN THIS BUILDING SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
- 4. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE CALIFORNIA BUILDING CODE.
- THE SPRINKLER SUBCONTRACTOR SHALL BE C-16 LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
- SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13. MATERIALS TO BE UL LISTED OR FM APPROVED.
- ALL NEW EXPOSED FIRE SYSTEM PIPING (ABOVE GROUND) 21/2" TO 8" TO BE SCHEDULE 10 BLACK STEEL AND SCHEDULE 40 BLACK STEEL FOR 1" TO 2".
- 8. ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTER DIMENSIONS.
- HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTIONS 9.2 THROUGH 9.2.6.2. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. ALTERNATE UL AND FM HANGER METHODS ARE ACCEPTED AT NO ADDITIONAL COST TO THE OWNER.
- 10. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS:
- a. WITHIN 24 IN. OF THE TOP AND BOTTOM OF ALL RISERS;
- b. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 3 FT. OF THE WALL SURFACE;
- c. WITHIN 24 IN. OF BUILDING EXPANSION JOINTS;
- d. WITHIN 24 IN. OF THE TOP AND BOTTOM OF DROPS TO HOSE LINES, RACK SPRINKLERS, AND MEZZANINES, REGARDLESS OF PIPE SIZE;
- e. WITHIN 24 IN. OF THE TOP OF DROPS EXCEEDING 15 FT. IN LENGTH TO PORTIONS OF SYSTEMS PROJECT DATA SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE;
- ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
- 12. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
- 13. JOINING OF LIGHTWALL PIPE AND FITTINGS SHALL BE DONE WITH GROOVED COUPLINGS, JOINING OF THREADABLE PIPE AS ALLOWED BY NFPA 13 SHALL BE DONE WITH THREADED CAST IRON OR DUCTILE IRON FITTINGS.
- 14. ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE WITH NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS.
- 15. THE OVERHEAD PORTION OF THIS SYSTEM SHALL BE TESTED AT 200 PSI FOR 2 HOURS. THIS SYSTEM SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24 BEFORE CONNECTION WITH THE OVERHEAD SYSTEM AND BE TESTED AT 200 PSI FOR 2 HOURS.
- 16. SPRINKLERS IN T-BAR CEILING SHALL BE CONCEALED QUICK RESPONSE WITH WHITE CONCEALED ESCUTCHEONS AND SHALL BE PLACED IN QUARTER POINT OR CENTER OF 2x4 TILE.
- 17. THE SPRINKLER SUBCONTRACTOR IS TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST. INSTALL OFFSETS AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
- 18. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13.
- 19. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
- 20. SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "RISER ROOM IDENTIFICATION".
- 21. FLOW SWITCH SHALL BE CONNECTED TO A 10-INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT".
- 22. THE SPRINKLER SUBCONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO AHJ FOR FILLING IN PROJECT RECORDS.
- 23. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRELINE INFORMATION AND ACTUAL LENGTHS OF PIPE. THE LAYOUT SHOWN ON THE CIVIL DRAWINGS WILL SUPERCEDE WHAT IS SHOWN ON THE FIRE PROTECTION SITE PLAN.
- 24. REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.



FLOW TEST DATA - REDUCED

FLOW: 1,146 GPM

FLOW TEST DATA TO BE REDUCED BY 10% FOR HYDRAULIC CALCULATIONS AS FOLLOWS: STATIC PRESSURE: 72 PSI RESIDUAL PRESSURE: 67.5 PSI

PROVISION FOR FLUSHING SYSTEMS

- ALL SPRINKLER SYSTEMS SHALL BE ARRANGED FOR FLUSHING.
- 2. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSS MAINS. ALL CROSS MAINS SHALL TERMINATE IN $1\frac{1}{4}$ IN. (32 MM) OR LARGER PIPE.

SYMBOLS LEGEND

[18 Bts]

[8-6]

10-0

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PIPING LEGEND

HYDRAULIC REFERENCE POINT

ELEV. ABOVE FINISHED FLOOR

FIRE SPRINKLER SYSTEM RISER

RIGID GROOVED COUPLING

FLEXIBLE GROOVED COUPLING

DENOTES HANGER LOCATION

BRANCHLINE RESTRAINT

2-WAY SEISMIC BRACE

4-WAY SEISMIC BRACE

MECHANICAL TEE

THREADED ADAPTER

────────── GROOVED ADAPTER

— — UNDERGROUND PIPE

STEEL PIPE

DENOTES TRAPEZE HANGER LOCATION

HOSE CONNECTION, WET STANDPIPE

ELEV. BELOW TOP OF STEEL

CEILING HEIGHT

RISE UP OR DOWN

PIPE CONTINUATION

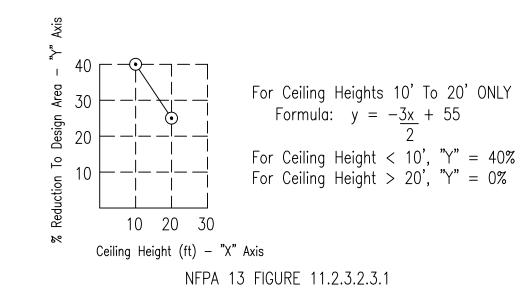
ELBOW LOOKING DOWN

SCOPE OF WORK

1. PROVIDE A WET PIPE AUTOMATIC SPRINKLER SYSTEM (OVERHEAD ONLY) IN ACCORDANCE WITH NFPA 13, 2022 EDITION.

DESIGN CRITERIA

- ELECTRICAL/MECH. ROOM, STORAGE ROOM ORDINARY HAZARD GROUP 1 WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.15 GPM/FT² OVER THE MOST DEMANDING 1,500 FT² INCLUDING A HOSE DEMAND OF 250 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 130 FT².
- ALL OTHER AREAS LIGHT HAZARD WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.10 GPM/FT² OVER THE MOST DEMANDING 900 FT² INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 225 FT².



AREA #1 CALCULATIONS TO REDUCE REMOTE AREA Area #1 BASE Design = 0.10/1,500 Sq Ft + 100 GPM Hose Ceiling Ht. above finished floor = 9'-0" NFPA 13 Section 11.2.3.2.3.1 (Quick-Response Sprinkler Area Reduction) Formula: y = -3x + 55

y = -3(10)/2 + 55y = 40.0% Area Reduction Allowed 1,500 Sg Ft x (1 - 0.40) = 900 Sg FtArea #1 FINAL Design = 0.10/900 Sq Ft + 100 GPM Hose

PROJECT: MPC - ADMINISTRATION BLDG RENO

ADDRESS: 7075 CAMPUS ROAD MOORPARK, CA 91320

OCCUPANCY GROUP: B (OFFICE AND HEALTH CLINIC)

CONSTRUCTION: TYPE V-B, FULLY SPRINKLERED (S1)

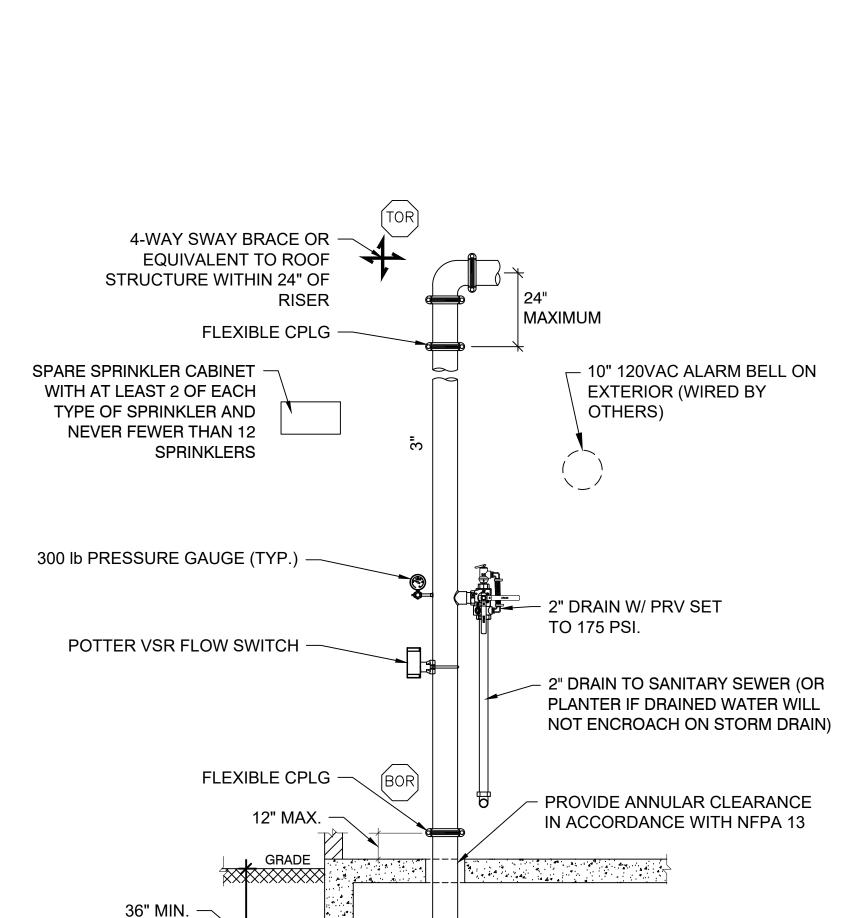
BUILDING AREA: 16.943 SQ. FT. EXCLUDING ROOF OVERHANG 5,258 SQ. FT. ROOF OVERHANG

22,201 SQ. FT. TOTAL

STORIES: 1 STORY BUILDING

SPRINKLERS: **FULLY SPRINKLERED**

0.932 CP Value:



FOOTING

12" MIN.

IN-BUILDING RISER (NO

BUILDING FOOTPRINT)

FIRE SYSTEM RISER DETAIL

FITTINGS PERMITTED UNDER

THRUST BLOCK OR

ACCORDANCE

WITH NFPA 24

PROVIDE MECHANICALLY

RESTRAINED JOINTS IN

WITHOUT HORIZONTAL SIDEWALL W/O — — — CPVC PIPE — DIAMETER OF PIPE (BOLD = SLOPED PIPE) X-X **-**LENGTH OF PIPE (E) PARKING LOT-**RESTRIPE** PARKING STALLS LAWN ACCESSIBLE PATH OF TRAVEL (E) CONC. SIDEWALK LAWN LAWN 10" 120 VAC ALARM BELL (WIRED BY OTHERS) LAWN ─ 8" ACP WATER MAIN (E) 1-STORY - 4" WILKINS 350 DA DOUBLE CHECK BACKFLOW PREVENTER W/ FDC ADMINISTRATION BUILDING (E) CONC. STAIR FIN. FLR. = 0' - 0" FIRE SPRINKLER 748.24' SYSTEM RISER 4" DI CL-350 UNDERGROUND PIPE (E) CONC. SIDEWALK @ ARCADE ONC. **NALK** LAWN UP 130' - 6" EXIST.

SITE PLAN

SCALE:1" = 20'-0"

ABBREVIATION LEGEND

AL VA

ASR

ATR

BFD

BFV

BTS

CIP

CL

COJ

CPLG

CPVC

CTF

CV

DCDA

DCVA

(EX)

EH1

EH2

EQ

EQB

ESC

EX

FDC

FLG

GRC

GRV

GV

DIP

ABOVE FINISH FLOOR

AUTOMATIC SPRINKLER RISER

BOTTOM AUTOMATIC SPRINKLER RISER

CHLORINATED POLYVINYL CHLORIDE PIPE

DOUBLE CHECK DETECTOR ASSEMBLY

DOUBLE CHECK VALVE ASSEMBLY

FIRE DEPARTMENT CONNECTION

GROOVED REDUCER COUPLING

ALARM VALVE

ALL THREAD ROD

BOTTOM OF BEAM

BOTTOM OF DECK

BOTTOM OF JOIST

BACKFLOW DEVICE

BUTTERFLY VALVE

CAST IRON PIPE

CENTERLINE

CUT ON JOB

COUPLING

CUT TO FIT

EXISTING

EXISTING

EQUAL

CHECK VALVE

DUCTILE IRON PIPE

EXTRA HAZARD GROUP '

EXTRA HAZARD GROUP 2

EARTHQUAKE BRACE

ESCUTCHEON

FLOW SWITCH

FIRE WATER LINE

EXISTING

FLANGE

GROOVE

GROOVE

GATE VALVE

BELOW TOP OF STEEL

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-123218 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: <u>07/11/2024</u>

INSIDE FACE OF WALL

POINT OF CONNECTION

PRESSURE RELIEF VALVE

POLYVINYL CHLORIDE PIPE

ORDINARY HAZARD GROUP 1

ORDINARY HAZARD GROUP 2

STANDARD SPRAY PENDENT

STANDARD SPRAY UPRIGHT

TOP AUTOMATIC SPRINKLER RISER

RESIDUAL HYDRANT

(E) MAINT.

NOTE: ALL UNDERGROUND FOR REFERENCE

ONLY. SEE CIVIL PLANS FOR MORE INFO.

OUTSIDE SCREW & YOKE VALVE

REDUCED PRESSURE DETECTOR ASSEMBLY

REDUCED PRESSURE ZONE ASSEMBLY

OUTSIDE FACE OF WALL

KEY VALVE

MINIMUM

PLAIN END

PENDENT

OVERHEAD

QUICK RESPONSE

SIDE BEAM BRACKET

STAINLESS STEEL

TOP BEAM CLAMP

TAMPER SWITCH

UNDERGROUND

VERIFY IN FIELD

RESIDENTIAL

SCHEDULE

STANDARD

THREADED

TYPICAL

UPRIGHT

VALVE

WITH

THREAD

SLIP

LIGHT HAZARD

ITV

ΚV

PEN

POC

PVC

OFW

OH2

OS&Y

RES

RPDA

RPZA

SBB

SCH

SLP

SS

SSP

SSU

STD

TASR

TBC

THD

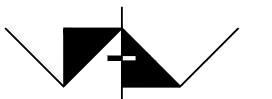
UG

PLAN

NORTH

QR

INSPECTORS TEST VALVE



AMADOR WHITTLE ARCHITECTS, INC.

> AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

28328 AGOURA ROAD, SUITE 203

Ventura County Community College

PROJECT TITLE

ADMINISTRATION BUILDING RENOVATION

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTANT



STAMPS/SEALS





SITE PLAN

21-MPC-040 PROJE

FP-1

11/16/21

SYMBOL	SPRINKLER DESCRIPTION	MFG.	MODEL	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
•	QUICK-RESPONSE, SSP CONCEALED SPRINKLER ON 1" DROP	VIKING	MICROFAST	5.6	155°F	WHITE	VK462	172
0	QUICK-RESPONSE, SSU SPRINKLER	VIKING	MICROFAST	5.6	200°F	BRASS	VK300	6
PROVIDE I	HEAD CABINET & WRENCH(ES) AS REQUIRED					TOTAL	COUNT =	= 178

HYDRAULIC

THIS BUILDING IS PROTECTED BY A
HYDRAULICALLY DESIGNED
AUTOMATIC SPRINKLER SYSTEM.

BASIS OF DESIGN (DESIGN AREA REDUCTION METHOD)

2. DESIGNED AREA OF DISCHARGE 1,015 SQ. FT.

TOTAL COMBINED INSIDE AND OUTSIDE HOSE - 100 GPM

REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE BASE OF THE RISER (NODE - BOR):

REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE WATER SUPPLY SOURCE (NODE - CTY):

STANDARD SPRAY/QUICK RESPONSE SPRINKLERS
PENDENT K=5.6 155°F VK462

MAXIMUM PROTECTION AREA PER SPRINKLER: 180 SQ. FT.

18.00 GPM AT 10.33 PSI REQUIRED FROM HYDRAULICALLY MOST DEMANDING SPRINKLER

0.10 GPM/SQ. FT.

280.66 GPM

58.70 PSI

380.66 GPM

67.61 PSI

NO. OF SPRINKLERS

LIGHT HAZARD

1. GPM DISCHARGE

1. GPM DISCHARGE

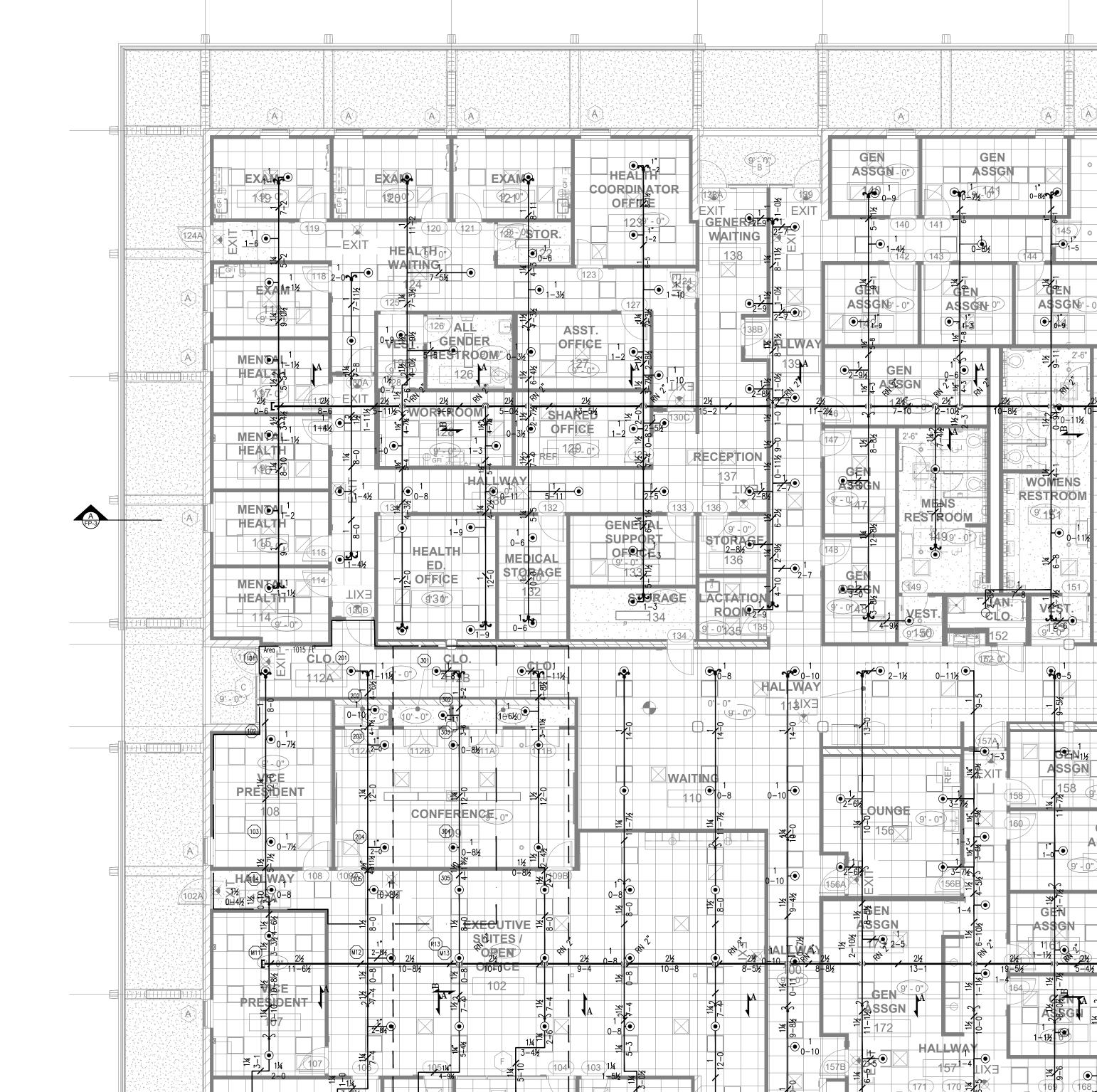
2. RESIDUAL PRESSURE

NFPA 13, 2016 EDITION

2. RESIDUAL PRESSURE

INSTALLING CONTRACTOR:
A & S FIRE PROTECTION, INC.

OCCUPANCY CLASSIFICATION



FIRE SPRINKLER PLAN

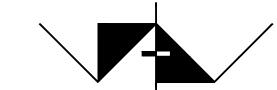
LAT. SEISMIC

BRACE ZONE OF INFLUENCE

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-123218 INC:

REVIEWED FOR
SS FLS ACS D
DATE: 07/11/2024



AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938 , (818) 874-0071

Ventura County Community College

PROJECT TITLE

NONCOMBUSTIBLE OVERHANG.

 (G)

NO FIRE SPRINKLER
PROTECTION REQUIRED

FIRE SPRINKLER
SYSTEM RISER

CONFERENCE

PLAN NORTH ADMINISTRATION
BUILDING RENOVATION

7075 CAMPUS ROAD MOORPARK, CA 91320

CONSULTANT



STAMPS/SEALS





SHEET TITLE:

FIRE SPRINKLER PLAN

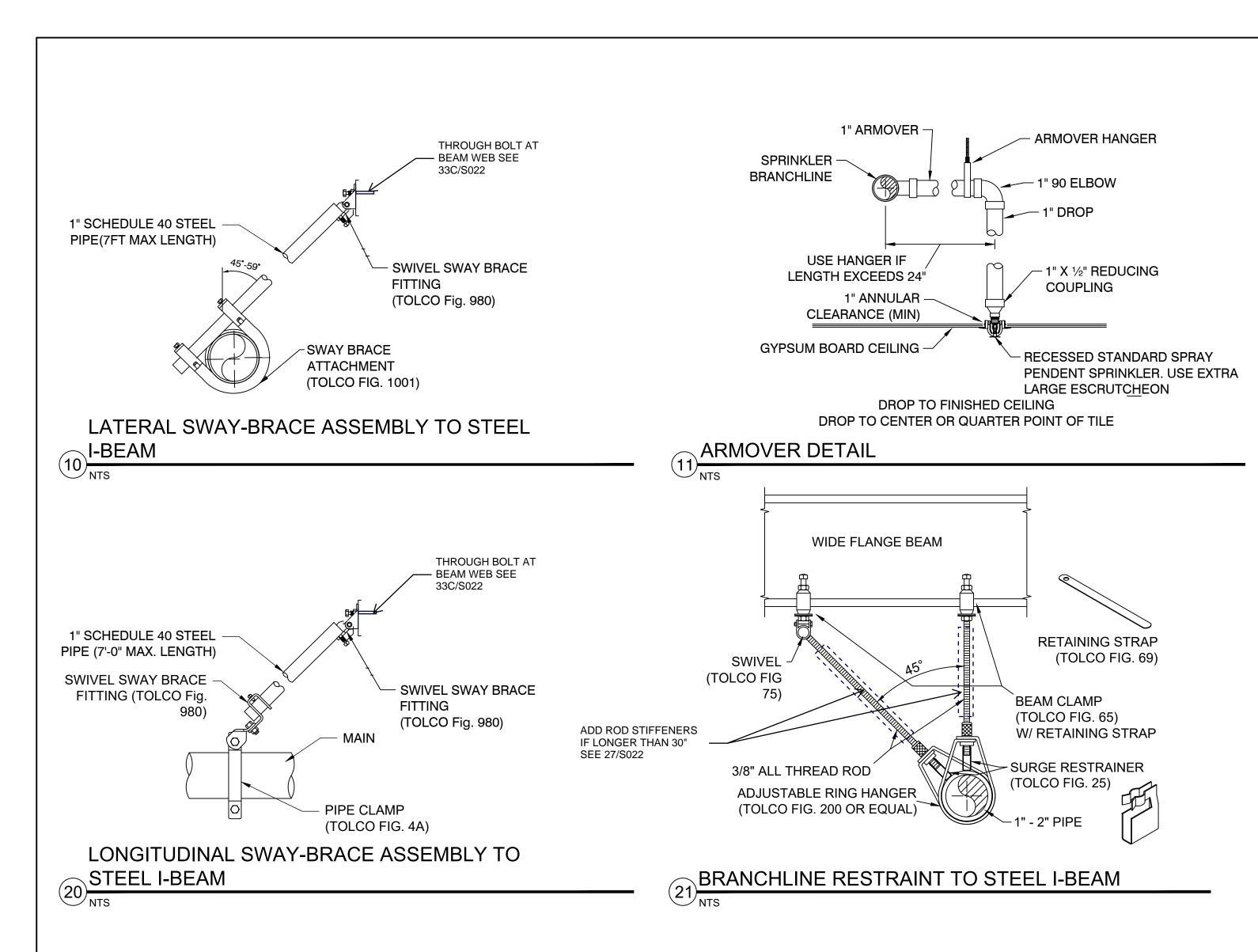
PROJECT NO.: 21-MPC-040 PROJECT ARCH:

DRAWN: BF CHECKED:

SHEET NUMBER:

FP-2

DATE: 11/16/21 SHEET: ____ OF _



			MA	XIMUN	Л HAN	GER S	PACIN	IG				
		NOMINAL PIPE SIZE (IN.)										
PIPE TYPE	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0



Fire Prevention Bureau 165 Durley Avenue, Camarillo, CA 93010-8586 Office: (805) 389-9738 Fax: (805) 388-4356

FIRE PREVENTION FORM 625 FIRE-FLOW VERIFICATION

SECTION I – PROJECT INFORMATION (To Be Completed by Applicant)

Project Name:	Moorpark College - Administration Building	APN:	500-0-281-495
Project Address:	7075 Campus Road	City:	Moorpark

SECTION II – INFORMATION ON FIRE-FLOW AVAILABILITY

•	npleted by Wate		')	
Sy	stem Information	on:		
Water Purveyor: Ventura County Waterwo	rks District No	o.1		
Size & Location of Main: 8" North of parcel	Distance to Parcel: 45 fe			
	ege Reservoirs	s 1 and 2	(2.5 MG)	
Ну	drant Informati	on:		
Location of Residual Hydrant: N. of Admin B	ldg (H554)		Distance to F	Parcel: * 90 feet
Location of Flow Hydrant: N.of Comms&Me	•	11814)	Distance to F	Parcel: * 320 feet
Type: Wet Size: 6"	Outlets:	1	4" 1 2 1/2"	
* Distance to parcel shall be measured along the	vehicular acces	s		
Test	Result Informa	ation:		
Method Used to Obtain Results: Hydraulic	Model	Flow	Test 🗸	
Date of Test: 6/28/23 Time of T	est: 2:40		□ам	☑ PM
Static PSI: 80 Residual PSI: 7		Orific	2.5	Pitot: 40

I have witnessed and/or reviewed this water flow information and by personal knowledge and/or on-site observation certify that the above information is correct.

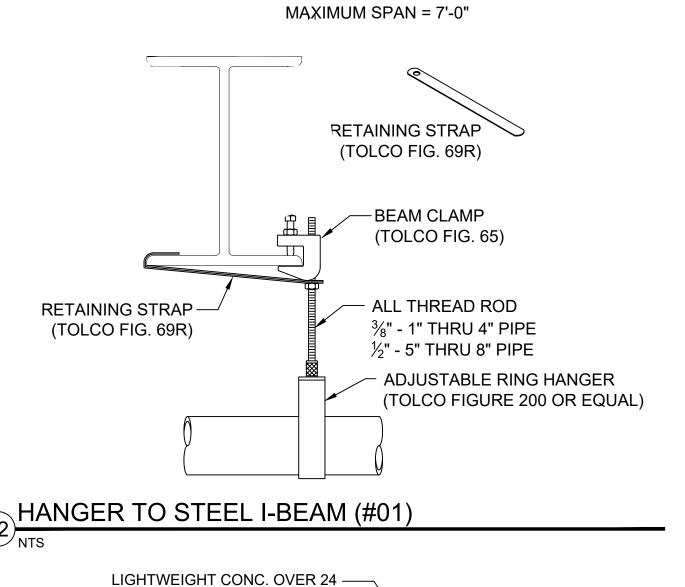
Observed GPM: 996 Calculated GPM @ 20 psi: 3811 Capacity Duration: 2 hrs

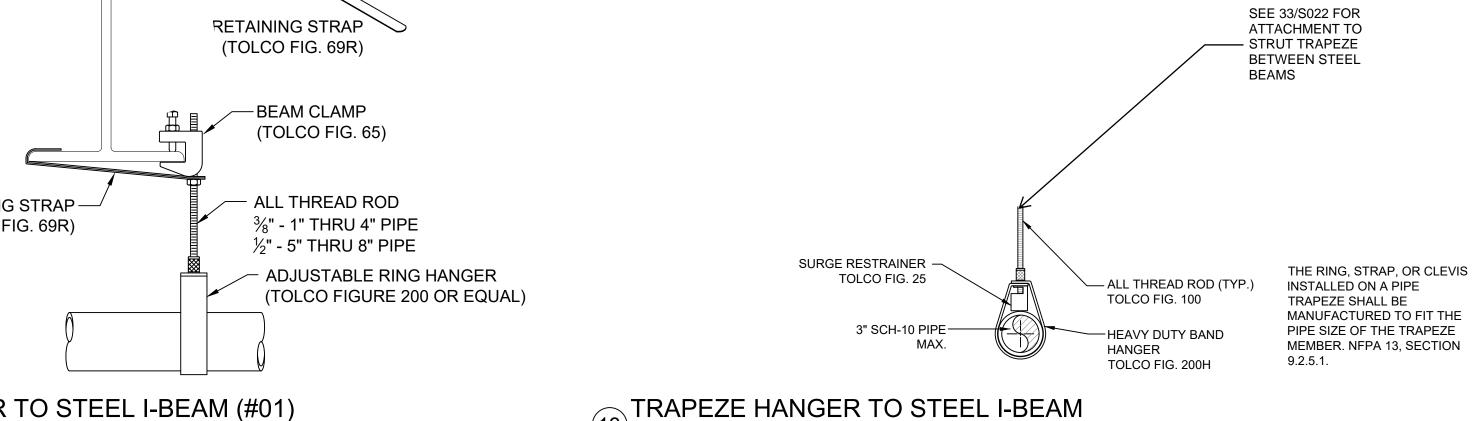
Name: Amy Bandagski Date: 07/03/2023 Company: VCWWD#1 Title: Engineering Tech. IV Phone: (805) 378-3023

Private on-site water system proposed. Separate plan submittal required. Water purveyor approves use of private water system. (Purveyor signature required above).

Fire District Record Number:

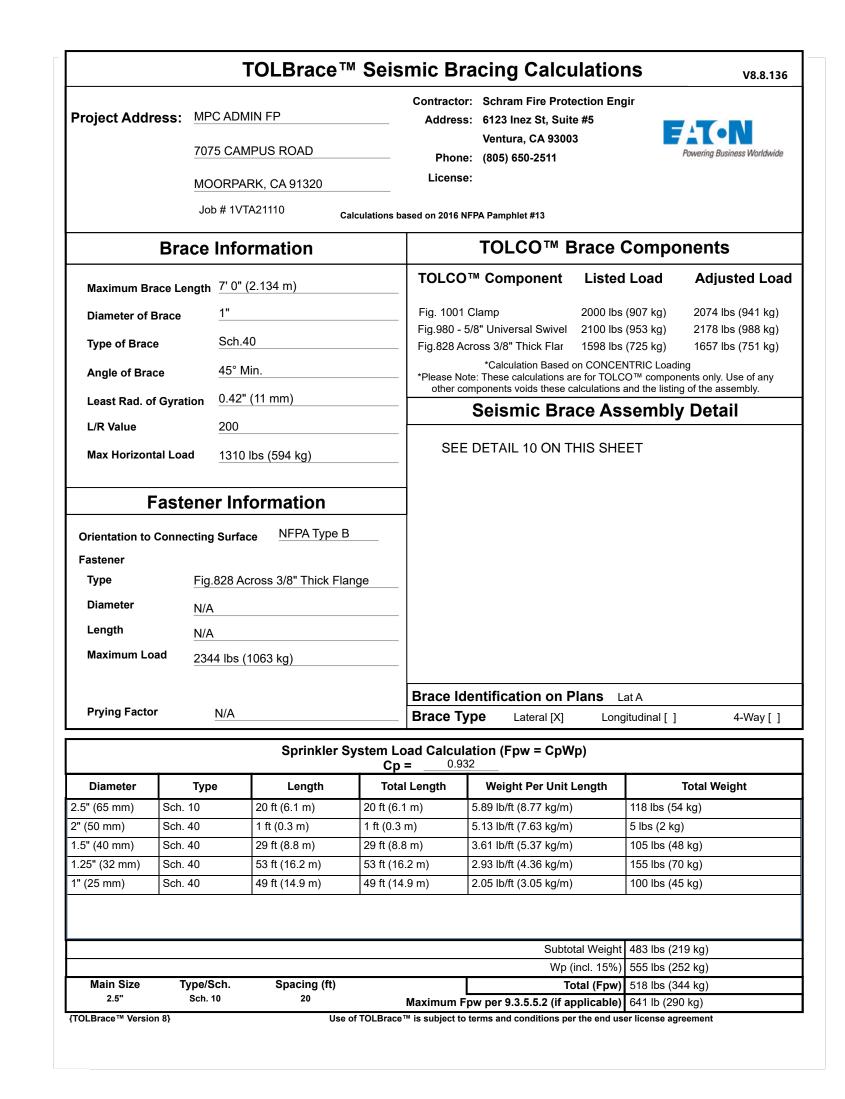
Fire-flow Verification January 1, 2023



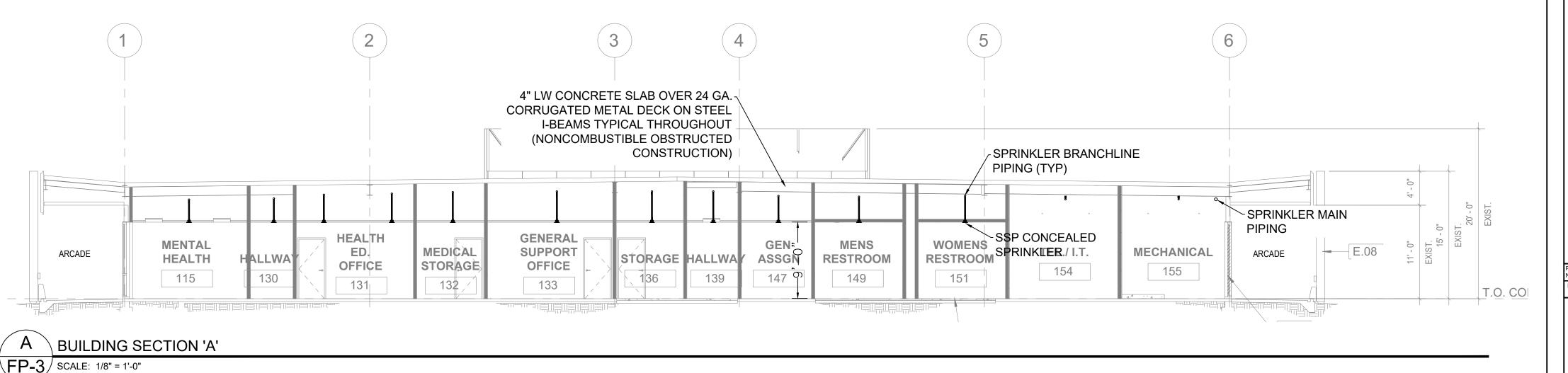


LIGHTWEIGHT CONC. OVER 24 — GAUGE DECK (f'c = 3,000 psi) 3/8" HILTI KB-TZ WEDGE ANCHOR 2" MIN. EMBEDMENT (ESR-1917) ALL THREAD ROD ADJUSTABLE RING HANGER (TOLCO FIGURE 3/8" - 1" THRU 4" PIPE 200 OR EQUAL) SURGE RESTRAINER — 1" ARMOVER (TOLCO FIGURE 25)

HANGER TO CONCRETE OVER METAL DECK



	•	TOLBrace™	["] Seis	mic Bra	icing Calcu	ılation	S	V8.8.136				
Project Address	MPC ADM	/IN FP			Schram Fire Prote	•	ir	//- /A \ 1				
	7075 CA	7075 CAMPUS ROAD			Ventura, CA 9300 (805) 650-2511	3	Powering Business Worldwide					
	MOORPARK, CA 91320			License:								
	Job # 1V	Job # 1VTA21110 Calculations b			PA Pamphlet #13							
Br	ace Info	rmation		TOLCO™ Brace Components								
Maximum Brace L	ength 7'0"	(2.134 m)		TOLCO	[™] Component	Listed	Load	Adjusted Load				
Diameter of Brace	4.0			Fig. 4L Cla	mp	2000 lbs (907 kg)	2074 lbs (941 kg)				
214		40		_	2" Universal Swivel	,	u,	2178 lbs (988 kg)				
Type of Brace	Sch.	1 U		Fig.828 Acr	oss 1/2" - 7/8" Thi	2009 lbs (2083 lbs (945 kg)				
Angle of Brace	45° N	⁄lin.			*Calculation Based E: These calculations a	re for TOLCO	ompon	ents only. Use of any				
Least Rad. of Gyra	ation 0.42'	' (11 mm)			ponents voids these c			•				
L/R Value	200				Seismic Bra	ce Ass	embly	Detail				
Max Horizontal Lo		lbs (594 kg)		SEE I	DETAIL 20 ON T	HIS SHEE	ĒΤ					
Max Honzontal 20	1010	103 (004 kg)										
Fas	tener In	formation										
		NEDA T. D.										
Orientation to Conr	ecting Surra	ce <u>mintipo b</u>										
Fastener	•	cross 1/2" - 7/8" Thi	ck									
Type	Flange											
Diameter	N/A											
Length	N/A											
Maximum Load	2947 lbs ((1337 kg)										
				Brace Ide	ntification on F	Plans Lo	ng B					
Prying Factor	N/A			Brace Typ	De Lateral []	Longi	tudinal [X]	4-Way []				
		Sprinkler S	ystem Lo Cp		tion (Fpw = CpW	p)						
Diameter	Туре	Length	T	Length	Weight Per Unit I	_ength		Total Weight				
2.5" (65 mm) Sch	. 10	80 ft (24.4 m)	80 ft (24	.4 m)	5.89 lb/ft (8.77 kg/m)		471 lbs (21	4 kg)				
					Subto	tal Weight	471 lbs (21	4 ka)				
							542 lbs (24					
Main Size	Type/Sch.	Spacing (ft)		Γ		otal (Fpw)						
	Sch. 10			Maximum Fpw per 9.3.5.5.2 (if applicable) N/A ace™ is subject to terms and conditions per the end user license agreement								
2.5"		80		<u>Maximu</u> m Fp	w per 9.3.5.5.2 (if a _l	oplicable)	N/A					



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Ventura County Community College

PROJECT TITLE

ADMINISTRATION **BUILDING RENOVATION**

7075 CAMPUS ROAD MOORPARK, CA 91320



STAMPS/SEALS





SECTIONS & DETAILS

21-MPC-040 PROJE