

EA. EACH ELEV. ELEVATION

EQ. EQUAL

EXIST. EXISTING

O.C. ON CENTER

OPP. OPPOSITE

O.D. OUTSIDE DIAMETER

WD. WOOD W.W.F. WELDED WIRE

FABRIC

- . CONTRACTOR TO BECOME FAMILIAR WITH DRAWINGS AND SPECIFICATIONS. CONTRACTOR TO BECOME FAMILIAR WITH UNIVERSITY OF UTAH POLICIES AND EXPECTATIONS.
- NEEDED TO PROTECT OCCUPIED AREAS. ALL AREAS OF THE CONSTRUCTION SITE SHALL BE
- OTHER BUILDINGS WITH OWNER PRIOR TO SHUTDOWN.

STUD/GYP WALLS, P1. SIDELITE. PAINT WALL, P1.



	GEN	IETIC SCIENCE LEAI	RNING CEN
DOORS TO REMAIN. PAINT NEW W METAL FRAME WOOD DOOR +	CLIENT CONTACT: UNIVERSITY OF UTAH ERIC BERMUDEZ PLANNING AND DESIGN CONSTRUCTION SALT LAKE CITY, UT 84112	THE	295 CHIPE SALT LAKE (PROJECT #: U
OORS. SALVAGE HARDWARE RCULATION 4C200. SEE SHEETS		UNIVERSITY of UTAH	
RIVACY DRAPE. SEE SHEETS	CONSULTANTS: ELECTRICAL ENGINEER SPECTRUM ENGINEERS LANCE KOBAYASHI, PE 324 STATE ST SUITE 400 SLC, UT 84111 801-328-5151 No. 5497590- Christophe 10.30.2	MECHANICAL ENGINEE SPECTRUM ENGINEERS RYAN BOOGAARD, PE 324 STATE ST SUITE 40 SLC, UT 84111 801-401-8420	R S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



CODE A	IG IDEN	TIFICATI		LIAMS BUIL	DING					
	NALYS	S DATE	09.3	30.2024						
<u>ART 1:</u>										
APPLIC	ABLE C	ODE			YEAR	APPLICABLE	CODE	YEAR		
iternatio iternatio	nal Build nal Exist	ling Code ing Buildii Code (IEC	<u>(IBC)</u> ng Code (IE	EBC)	2021 2021 2021	ADA (ADAAG) ICC/ANSI A117	2010 2017 2021			
ternatio ternatio	nal Mecl	nanical Co gy Conse	ode (IMC) rvation Cod	de (IECC)	2021 2021 2021	NFPA 101 Life NFPA 99 Healt	NFPA 101 Life Safety Code (State) NFPA 101 Life Safety Code (Federal) NFPA 99 Health Care Facilities Code			
ternatio ational E	nal Plum Electric (bing Cod Code (NEC	e (IPC) C)		2021 2020	FGI Health Car	e Guidelines	2022		
<u>\RT 2:</u> NO C⊦	IANGE I	N OCCUF	PANCY OR	USE LEVEI	_S 1,2, 3 AN	ID 4, PARTIAL IN	ITERIOR REMODEL OF	ELEVEL 4		
	CONS	occi	JPANCY	HEIC	GHT		AREA			
EVEL	TYPE	GROUP	AREA	ACTUAL	TABULAR T504.3	TABULAR NS (T506.2)	TABULAR SM OR S1 (T506.2)	Aa*2 ACTUAL		
VEL 1	I-B	B A-3	63,754				UL	63,754		
VEL 2	I-B	B	77,389				UL	81,153		
VEL 3	I-B	B	3,746 73,581				UL	77,327		
/EL 4	I-B	A-3 B	3,746 69,985				UL	73.702		
		A-3	3,717	4 STORIES	12 STORIES	s				
) Const) Area-	truction ⁻ Total bu	「ype shall ilding Are	be the mo	st restrictive nt on Single	occupancy r or Mixed Oc	requirement for th cupancy Building	ne entire building (508.3 g (506.2.1 through 506.2	& 508.4) .4) & Frontage		
ease (Mixed	506.3) I Use - I/	AO=Incide	ental Acces	sory Occupa	ncy / AO=Ao	ccessory Occupa	ncy / SO=Separated Oc	cupancies /		
) IBC S a of ea	ection 5	08.4.2: In rated occu	each story	, the building ded by the a	area shall b llowable buil	e such that the s ding area of eac	um of the ratios of the a bum of the ratios of the a h separated occupancy s	ctual building shall not		
eed 1. 506.2	.4 Mixed	-occupan	cy, multistc	bry buildings	more than 3	stories above gr	ade plan: Total building	area shall be		
h that f	the aggr	egate sum nree for N	າ of the rati S and four	os of the acti for S.	ual area of e	each story divideo	d by the allowable area o	of such stories		
IBC 5 vidual	04.2 Mix occupar	ed occupa icy shall e	ancy: In a b xceed the l	building conta height and nu	aining mixed umber of sto	l occupancies in ory limits specified	accordance with Section d in this section for the a	508, no pplicable		
upanci	ICO.									
RT 3	ALLOW	ABLE ARE	<u>EA DETER</u>	<u>MINATION (</u>	506.2.1 thro	ugh 506.2.4 & 50	<u>)6.3)</u>			
ONTAC	GE INCF	EASE: If	= [F/P- 0.2	5]W/30 = (Pr	ovide Analys	sis)				
IGLE-C	OCCUPA Area:	NCY, MU	LTISTORY		6 (506.2.3): Aa = [At +	(NS× If)] × Sa =	(Provide Analysis)			
/el X, X	Occupa Sa = A	incy: ctual num	Aa =	ina stories a	IT)] X Sa = S bove grade	plane not to evo	eed three. For buildings	equipped		
oughou ual nun	nber of	W	ith an auto	matic sprinkl	er system in building st	istalled in accord	ance with Section 903.3 le plane, not to exceed f	.1.2, use the our.		
KED-O	CCUPA	NCY, MUL	TISTORY	BUILDINGS	(506.2.4):					
vel X, X	Area: COccupa	incy:	Aa =	Aa = Af + (NS ×:	[At+(NS× If)] [f)] = SF] = (Provide Anal	ysis)			
Story E 3 for N	3ldgs: To NS and <	otal Bldg A 4 for S:	vrea = Aggr	egate SUM	of the Ratios	s (Actual Floor Ar	ea / Allowable Floor Are	a)		
gregate	e Sum of	the Ratio	s: = X							
		A (507) =	Ν/Α 10) = Ν/Δ							
			10) 10/1							
ART 4 -	GRADE	PLANE E		& HEIGHT	<u>& STORIES</u>	(504)				
N/A - N	NO CHA	NGE IN O		Y OR USE I	EVELS 1,2	, 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4.		
					002 0 11 6)					
TEM	AUTON		RE	FERENCE	903.2.11.0		COMMENTS			
equired	ł		1	NFPA 13			EXISTING SYSTEM			
<u>RT 6 -</u> N/A - N	OCCUP NO CHA	<u>ANCY SE</u> NGE IN O	PARATION	<u>NS (T508.4)</u> CY OR USE I	EVELS 1,2	, 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4		
RT 7 -	OTHER	BUILDING	<u>G ELEMEN</u>	ITS (T601 AM	ND T602)					
N/A - N	NO CHA	NGE IN O	CCUPANC	Y OR USE I	EVELS 1,2	, 3 AND 4, PART	IAL INTERIOR REMOD			
от о	EXTERI	OR WALL	& OPENII					EL OF LEVEL 4		
N R I 0 -	NO CHA	0			TION (T705	5 8)		EL OF LEVEL 4		
N/A - N		NGE IN O	CCUPANC	NG PROTEC Y OR USE I	TION (T705 -EVELS 1,2	5.8) , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4		
N/A - N				NG PROTEC CY OR USE I	<u>TION (T705</u> EVELS 1,2,	<u>5.8)</u> , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4		
N/A - N . <u>RT 9 -</u> N/A - N	<u>EXIT RE</u> NO CHA	NGE IN O QUIREM	ENTS CCUPANC	NG PROTEC CY OR USE I	ETION (T705 EVELS 1,2,	<u>5.8)</u> , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4		
N/A - N N/A - N N/A - N	<u>EXIT RE</u> NO CHA - ADDIT	NGE IN O CQUIREM NGE IN O		NG PROTEC CY OR USE I	EVELS 1,2,	<u>5.8)</u> , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4		
N/A - N <u>RT 9 -</u> N/A - N <u>RT 10 -</u> CCESS	EXIT RE NO CHA - ADDIT	NGE IN O QUIREM NGE IN O IONAL RE	CCUPANC ENTS CCUPANC QUIREME EGRESS	<u>NG PROTEC</u> 27 OR USE I 27 OR USE I <u>28 OR USE I</u> <u>2009):</u>	EVELS 1,2,	5.8) , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4		
RT 9 - N/A - N N/A - N RT 10 - CCESS CCESS UILDIN	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI	NGE IN O COUIREM NGE IN O ONAL RE EANS OF DUTE (11 E): EANCY E	ENTS CCUPANC CCUPANC QUIREME EGRESS 04 & INTE	NG PROTEC CY OR USE I CY OR USE I CHAN	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING	5.8) , 3 AND 4, PART , 3 AND 4, PART	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE		
RT 9 - N/A - N N/A - N RT 10 - CCESS UILDIN PECIAI UMBIN	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL	NGE IN O QUIREM NGE IN O ONAL RE EANS OF DUTE (11 E): PANCY R JRES (T 2	ENTS CCUPANC CCUPANC CCUPANC EQUIREME EGRESS 04 & INTE EQUIREM (902.1)	NG PROTEC CY OR USE I CY OR USE I <u>ENTS</u> (1009): RNATIONAL	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4):	5.8) , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE		
RT 9 - N/A - N N/A - N RT 10 - CCESS UILDIN PECIAI UMBIN TOTAL	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL - OCCU	NGE IN O QUIREM NGE IN O ONAL RE EANS OF DUTE (11 E): PANCY R JRES (T 2 PANTS	CCUPANC ENTS CCUPANC CUPANC EQUIREME EGRESS 04 & INTE EQUIREM 902.1) 909	NG PROTEC CY OR USE I CY OR USE I <u>ENTS</u> (1009): RNATIONAL ENTS (CHA	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4):	5.8) , 3 AND 4, PART , 3 AND 4, PART	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE		
RT 9 - N/A - N N/A - N RT 10 CCESS CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL BUSINE ASSEN	NGE IN O QUIREM NGE IN O ONAL RE EANS OF OUTE (11 E): PANCY R JRES (T 2 PANTS SS IBLY	CCUPANC ENTS CCUPANC CUPANC EQUIREME CEGRESS 04 & INTE EQUIREM 2002.1) 909 658 251	NG PROTEC CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA)	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4):	5.8) , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE		
RT 9 - N/A - N N/A - N N/A - N RT 10- CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3 L4 WA REQU	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL ASSEN ASSEN ITER CL IRED	NGE IN O QUIREM NGE IN O ONAL RE EANS OF OUTE (11 E): PANCY R JRES (T 2 PANTS SS IBLY OSET FIX	ENTS CCUPANC CCUPANC CCUPANC CCUPANC EQUIREME CEGRESS 04 & INTE CEQUIREM 2002.1) 909 658 251 (TURE CO	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI	5.8) , 3 AND 4, PART , 3 AND 4, PART	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE		
RT 9 - N/A - N N/A - N RT 10 - CCESS CCESS UILDIN PECIAI UMBIN TOTAL B - A - 3 L4 WA REQU BUSI ASSE	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL ASSEN ASSEN TER CL IRED NESS EMBLY	NGE IN O QUIREM NGE IN O ONAL RE EANS OF OUTE (11 E): PANCY R JRES (T 2 PANTS SS IBLY OSET FIX	ENTS CCUPANC EQUIREME CCUPANC EQUIREME EGRESS 04 & INTE EQUIREM 2002.1) 909 658 251 (TURE CO 8 EA	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUII BUS ASS	5.8) , 3 AND 4, PART , 3 AND 4, PART	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N N/A - N .RT 10 -	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL ASSEN ASSEN TER CL IRED NESS EMBLY N DMEN	NGE IN O QUIREM NGE IN O ONAL RE EANS OF OUTE (11 <u>)</u> : PANCY R JRES (T 2 PANTS SS IBLY OSET FIX	ENTS CCUPANC ENTS CCUPANC CUIREME EQUIREME 202.1) 909 658 251 (TURE CO 8 EA 2 2	NG PROTEC CY OR USE I CY OR USE I	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI BUS ASS PROVII	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N N/A - N N/A - N RT 10 - CCESS CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE WC PROVI MEN	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTU - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED	NGE IN O QUIREM NGE IN O ONAL RE EANS OF OUTE (11 PANCY R JRES (T 2 PANCY R JRES (T 2 PANTS SS IBLY OSET FIX	CCUPANC ENTS CCUPANC QUIREME EGRESS 04 & INTE EQUIREM 202.1) 909 658 251 (TURE CO 8 EA 2 2 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CHO9): RNATIONAL ENTS (CHA)	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI BUS ASS PROVIE MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN	TAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N RT 10 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI JMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE WC WC PROVI MEN WOW	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTU - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED IEN	NGE IN O QUIREM NGE IN O ONAL RE EANS OF DUTE (111 E): PANCY R JRES (T 2 PANTS SS IBLY OSET FIX	CCUPANC ENTS CCUPANC QUIREME CCUPANC EQUIREME 201 EQUIREM 202.1) 909 658 251 (TURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CHO9): RNATIONAL ENTS (CHA)	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE		
RT 9 - N/A - N RT 10 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI JMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE WC PROVI MEN WOW	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL - OCCU BUSINE ASSEN TER CL IRED NESS - MBLY N DMEN IDED IEN	NGE IN O	ENTS CCUPANC EQUIREME CCUPANC EQUIREME EGRESS 04 & INTEL EQUIREM 2902.1) 909 658 251 (TURE CO 8 EA 2 2 14 14	NG PROTEC CY OR USE I CY OR USE I CONTS CONTS CONTS	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUII BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N RT 10 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI JMBIN TOTAL B I A-3 L4 WA REQU BUSI ASSE MEN WO WOW	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED IEN	NGE IN O	ENTS CCUPANC ENTS CCUPANC EQUIREME EQUIREME 202.1) 909 658 251 CTURE CO 8 EA 2 2 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA UNTS	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUII BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N RT 10 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI JMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE ME WO PROV MEN WOW	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED IEN	NGE IN O	CCUPANC ENTS CCUPANC EQUIREME EQUIREME EGRESS 04 & INTEL EQUIREM 2902.1) 909 658 251 (TURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I INTS (1009): RNATIONAL ENTS (CHA UNTS	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUIL BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE		
RT 9 - N/A - N RT 9 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE ME WO PROV MEN WOW	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTU - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED IEN CALS T Chemin	OBE LOC	ENTS CCUPANC ENTS CCUPANC EQUIREME EQUIREME 202.1) 909 658 251 CTURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA UNTS SUPPLIES R Haza	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUIL BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN 4 4 hts # of	IAL INTERIOR REMOD IAL INTERIOR REMOD EXISTING MEETS CO IAL INTERIOR REMOD IAL INTERIOR REMOD IAL INTERIOR REMOD IAL INTERIOR REMOD EXISTING MEETS CO IAL INTERIOR REMOD IAL INT	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE nit Volume/Size		
INA - N INA	EXIT RE NO CHA - ADDIT SIBLE M SIBLE R IG CODI L OCCU G FIXTL - OCCU BUSINE ASSEN TER CL IRED NESS MBLY N DMEN IDED IEN CALS T Chemic	NGE IN O	ENTS CCUPANC EQUIREME EQUIREME EQUIREME 202.1) 909 658 251 CTURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I CNTS (1009): RNATIONAL ENTS (CHA UNTS SUPPLIES R Haza	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUIL BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN 4 4 <u>1</u> <u>2</u>	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4		
RT 9 - N/A - N RT 9 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE WC PROV MEN WOW CHEMI	EXIT RE NO CHA - ADDIT SIBLE M SIBLE	NGE IN O	CCUPANC ENTS CCUPANC QUIREME EQUIREME EQUIREME 202.1) 909 658 251 (TURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I COMPLIES R SUPPLIES R	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR SINESS SEMBLY DED N MEN 4 1 2 1 2 1 1	IAL INTERIOR REMOD IAL INTERIOR REMOD EXISTING MEETS CO IAL INTERIOR REMOD Units 6 EA 1 EA 11 11 Juits Qty per U 100 473 473 473	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4		
RT 9 - N/A - N RT 9 - N/A - N RT 10 - CCESS CCESS UILDIN PECIAI UMBIN TOTAL B 1 A-3 L4 WA REQU BUSI ASSE WC PROV MEN WOW CHEMI	EXIT RE NO CHA - ADDIT SIBLE M SIBLE	NGE IN O CUIREM NGE IN O ONAL RE EANS OF OUTE (11) PANCY R JRES (T 2 PANTS SS IBLY OSET FIX OSET FIX OSET FIX COBE LOC CAL DESCRI L ALCOH L ALCOH C REAGF	CCUPANC ENTS CCUPANC EQUIREME EQUIREME EGRESS 04 & INTE EQUIREM 202.1) 909 658 251 (TURE CO 8 EA 2 2 14 14 14	NG PROTEC CY OR USE I CY OR USE I CY OR USE I COMPLIES R COMPLIES R Haza	EVELS 1,2, EVELS 1,2, EVELS 1,2, EXISTING PTER 4): L4 LAV, REQUI BUS ASS PROVII MEI WO	5.8) , 3 AND 4, PART , 3 AND 4, PART , 3 AND 4, PART ATORY FIXTUR RED SINESS SEMBLY DED N MEN 4 4 nts # of 1 2 1 1 4 2	IAL INTERIOR REMOD	EL OF LEVEL 4 EL OF LEVEL 4 EL OF LEVEL 4 DE DE DE Millimeters Millimeters Millimeters Millimeters Grams Solid		
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TOLUIDINE BLUE XYLENE CYANOL FF

					WC				L	AV				
	OCCUPANCY	AREA	OCCUPANT LOAD	WC MALE	MALE WC CALC.	WC FEMALE	FEMALE WC CALC.	LAV MALE	MALE LAV CALC.	LAV FEMALE	FEMALE LAV CALC.	DF CLAC.	OTHER	DF
SINESS	В	69,985		1 per 25 for first 50 and 1 per 50 for the remainder exceeding 50		1 per 25 for first 50 and per 50 for th remainder exceeding 5	1 e 0	1 per 40 for first 80 and 1 per 80 for the remainder exceeding 80		1 per 40 for first 80 and 1 per 80 for the remainder exceeding 80			1 service sink	1 per 100
SEMBLY	A-3	3,717		1 per 125		1 per 65		1 per 200		1 per 200			1 service sink	1 per 500

ART 11 - BUILDING PERFORMANCE PARAMETERS: A - NO CHANGE IN OCCUPANCY OR USE LEVELS 1,2, 3 AND 4, PARTIAL INTERIOR REMODEL OF LEVEL 4. D CHANGE IN GRADE PLANE ELEVATION, HEIGHT AND STORIES. NO CHANGES TO EXTERIOR WALL AND DOF ASSEMBLIES. MINOR MECHANICAL ADJUSTMENTS.

ART 12 - DEFERRED SUBMITTALS, NONSTRUCTURAL COMPONENTS CHECKLIST, & SPECIAL SPECTIONS LIST: ovide the following information in the Code Analysis, deleting non-applicable sections. ST OF DEFERRED SUBMITTALS

e below nonstructural component checklist

DELINES FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS & DEFERRED SUBMITTALS General Comments: . These guidelines shall apply to all nonstructural components as required by the IBC 1613.1. Nonstructural components consist of architectural, mechanical and electrical components that are permanently attached to the primary structure. . When a change in occupancy occurs that causes an existing building to be reclassified to a higher Occupancy Category per IBC Table 1604.5, all existing nonstructural components shall be confirmed to meet the seismic restraint requirements of Chapter 13 in ASCE 7. These guidelines define the minimum submittal requirements to obtain University of Utah approval for seismic restraint of nonstructural components. The guidelines noted herein shall not cancel or set aside more conservative requirements specified by the design professional in responsible charge. All references made to the IBC or ASCE 7 latest editions adopted by the State of Utah. Checklist Requirements: a. All University of Utah projects shall have the "Nonstructural Component Checklist" (attached below) clearly shown on the front of the construction plans. . Each item within the checklists shall have the appropriate box checked and comments shall be provided

noting the particular component(s) that require seismic restraint.
The "Not Required" box should only be checked if the component is exempt from requiring seismic restraint by Section 13.1.4 of ASCE 7, or if the component in question will not be provided as part of the project.
If the "Deferred Submittal" box is checked, the additional requirements of Section 6 included in this handout must be met.
Submittal Requirements:
The seismic restraint requirements for nonstructural components may be provided with the original construction documents submitted to University of Utah or may be submitted later as a deferred submittal. Whether provided with the original plans or later, the requirements of this section must be met.
Seismic restraint submittals shall include construction documents meeting the requirements of Section 4 of this handout as well as supporting design information discussed in Section 5 of this handout.

Construction Documents:
a. The construction documents must include seismic restraint details providing specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners.
b. The construction documents must note the special inspection and testing requirements for the seismic restraint of nonstructural components per Section 13.2.7 of ASCE 7.
c. University of Utah will accept products that have been tested and listed under the ICC Evaluation Service Program, as long as they are installed in accordance with the provisions and limitations of the ICC Listing Report.
d. The requirements for anchorage/bracing of nonstructural components cannot be satisfied by a general reference to Design Manuals. Design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of the IBC.

e. Rod hangers shall not be used as seismic supports unless the length of the hanger from the supporting structure is 12 in. or less. Rod hangers shall not be constructed in a manner that subjects the rod to bending moments.
Seismic Restraint Design Requirements:

a. Per IBC 1613.1, the seismic restraint of nonstructural components shall meet the requirements of ASCE 7. If the component in question is exempt by Section 13.1.4 of ASCE 7, a submittal noting the seismic restraint of that particular component is not required.
b. The seismic restraint design must meet the requirements listed in Table 13.2-1 of ASCE 7. These requirements may be met by providing either a project-specific design prepared by a registered design professional, or a manufacturer's certification that the component is seismically qualified.
c. A certificate of seismic qualification by the manufacturer must be accompanied by one of the following items:

An engineered analysis conforming to the requirements of Chapter 13 of ASCE 7.
Testing by a nationally recognized testing standard procedure such as ICC-ES AC 156. The substantiated seismic design capacities shall exceed the seismic demands determined by Section

13.3 of ASCE 7.
Experience data conforming to a nationally recognized procedure. The substantiated seismic design capacities shall exceed the seismic demands determined by Section 13.3 of ASCE 7.
d. The following seismic restraint publications shall be considered "Accepted Engineering Practice":
Seismic Restraint Manual, Guidelines for Mechanical Systems (3 rd Edition, published by SMACNA)
Guidelines and details that have been evaluated and reported under the International Code Council Evaluation Service Program (ICC-ES).
Seismic restraint manuals, guidelines and details that have been approved by the California Office of Statewide Health Planning and Development (OSHPD) under their pre-approval program for seismic restraint systems. Approval by the University of Utah Building Official to use this reference is required prior to proceeding with design.
Deferred Submittals:
a. Deferred submittals of seismic restraint of nonstructural components must be submitted to the UNIVERSITY

OF UTAH Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient, additional time may become necessary.
Deferred submittals shall be clearly noted on the construction plans as required by IBC in Chapter 1. Prior to submitting to the UNIVERSITY OF UTAH Building Official, the deferred submittal must follow the protocol outlined in the section entitled "Deferred Submittals" in the IBC Chapter 1. Please note on the plans that no deferred submittal elements shall be installed until University of Utah approval has been received.
If seismic restraints of nonstructural components are installed prior to receiving University of Utah approval, they shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

sical State	Report Denominator	Storage Location	Comments
oloui oluto	Denominator		Commonito
	0.0528402	First cabinet when you walk in	
	0.124967	Cabinet next to fridge	
	0.124967	Cabinet next to fridge	
	0.4998679	Cabinet next to fridge	
	0.5291	First cabinet when you walk in	
	0.22046	First cabinet when you walk in	
	0.22046	First cabinet when you walk in	
	0.22046	First cabinet when you walk in	
	0.0264201	First cabinet when you walk in	
	0	First cabinet when you walk in	
	0.1321004	First cabinet when you walk in	
	0	First cabinet when you walk in	
	0.05511	First cabinet when you walk in	
	0.22046	First cabinet when you walk in	
	0.660502	First cabinet when you walk in	
	0	First cabinet when you walk in	
	0	Cabinet under Sink	
	0.05511	First cabinet when you walk in	
	0.5511464	First cabinet when you walk in	
	0.55115	First cabinet when you walk in	
	0.010568	First cabinet when you walk in	
	0	First cabinet when you walk in	
	0	First cabinet when you walk in	



Office of the State Building Official 4315 S 2700 W Taylorsville, UT 84129 Phone: (801) 538-3018 Website: http://dfcm.utah.gov/

Special Inspection, Material Testing & Structural Observation Items Required by Chapter 17 of the 2021 IBC

FIRE-RESISTANT PENETRATIONS AND JOINTS (IBC 1705.18)
 Only required for high-rise buildings or those assigned to Risk Category III or IV per IBC Table 1604.5 or in fire areas containing group R occupancies with an occupant load greater than 250.

Item			Detailed Instructions and Frequencies
Penetration firestops	Continuous	Periodic	Listed systems shall be inspected in accord
			ASTM E 2174.
Fire-resistant joint systems	Continuous	🛛 Periodic	Listed systems shall be inspected in accord
			ASTM E 2393.
Only required for buildings loc Item	ated within Seismic	: Design Catego	ory D, E, or F. Detailed Instructions and Frequencies
Erection and fastening of interior and exterior nonbearing walls	Continuous	Periodic	Verify appropriate materials, fasteners and at commencement of work and at complet <i>Performed by code inspection firm</i> . (Not
•			

MISCELLANEOUS AREAS

➤ These inspections may be recommended by the Architect/Engineer and are to be approved by DFCM.								
Item			Detailed Instructions and Frequencies					
Suspended Acoustical Ceilings	Continuous	Periodic 🛛	Performed by code inspection firm.					
Seismic supports for duct work	Continuous	Periodic						
and sealing of joints for duct work								
Seismic supports for electrical	Continuous	Periodic						
raceways, cable trays and lights								
Seismic supports for plumbing	Continuous	Periodic						
lines including gas, water and								
steam and condensation								
Seismic bracing for mechanical	Continuous	Periodic						
units both on slab and suspended	10							

Special Inspectors Shall:

Signature

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
 Inspection reports are to meet the requirements of IBC 1704.2.4 and DFCM standards;
 Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah
- Building Official within 48 hours of performing inspections;
 A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.2.4).

CONTRACTOR'S STATEMENT OF RESPONSIBILITY (IBC 1704.4)

The following statement must be provided on the plans along with a signature from the contractor prior to permit issuance.

Each contractor involved with the construction of wind or seismic force-resisting systems shall comply with the requirements of IBC 1704.4. The contractor is responsible for providing the special inspector access to approved plans and contract documents at the job site. All special inspection records shall be retained at the job site by the contractor and shall be made available to the Building Department upon request.

eclaration by General Contractor

I, the General Contractor of the project, agree to comply with the "Contractor Responsibility" items noted above.

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	NOT REQUIRED	ON CONST. DOCUMENTS	DEFERRED SUBMITTAL	COMMENTS
Architectural Components:				
Interior Nonstructural Walls & Partitions	Х			
Cantilever Elements (i.e. parapets, etc.)	Х			
Exterior Nonstructural Wall Elements	Х			
Veneer	Х			
Penthouses	Х			
Ceilings (i.e. suspended grid or hard-lid)		Х		
Cabinets (i.e. storage cabinets, equip, etc.)	Х			
Access Floors	Х			
Storage Racks	Х			
Appendages & Ornamentations	Х			
Signs & Billboards				
Other:				
Other:				
MEP Components:				
Fire Sprinklers			Х	
Mechanical Equipment (i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)	Х			
Electrical Equipment (i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)	х			
Elevator & Escalator Components	Х			
Communication Equipment, Computers, Instrumentation, and Controls	Х			
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers	Х			
Lighting Fixtures	Х			
Vibration Isolated Components	Х			
Piping & Conduit Systems			Х	conduit racking
Ductwork (including in-line components)	Х			
Conveyors	Х			
Cable Trays			Х	
Other:				
Other:				

<u>NOTES:</u>

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.

2. When seismic restraint of non-structural components is installed prior to receiving DFCM approval it shall not be covered or concealed until receiving both plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13.

Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering

reports, test data, and/or specifications to ensure code compliance.





































FF & E SCHEDULE									
Identifier	Quantity	Туре	Dimensions	Installation	Notes				
CIRCULATION									
CN-1	1	Water & Ice Machine		Contractor Furnished, Contractor Installed	Quench 965-16				
CONFERENCE									
COE-1	1	TV - 75" Conference	62.5" L x 12" W x 38" tall	Owner Furnished, Owner Installed					
MEDIA REVIEW									
MN-1	1	TV - 98" Media Review	89" L x 4" W x 50" tall	Owner Furnished, Owner Installed					
PRINT MEDIA									
PE-1	1	Xerox Versalink C405	17" L x 19" W x 24"tall	Owner Furnished, Owner Installed					
PE-2	1	HP DesignJet T630	50" x 20.5 W x 36" tall	Owner Furnished, Owner Installed					
PE-3	1	Sharp MX- 5141	38"L x 28" W x 49" tall	Owner Furnished, Owner Installed					
PN-1	1	Flat File Storage		Contractor Furnished, Contractor Installed	Contractor to coordinate w/ owner on compatible storage. Basis of Design: Space Saver Archival Flat File Storage				
SOUND OFFICE				· · ·					
SOE-1	1	Keyboard	62" L X 11" W X 5" H	Owner Furnished, Owner Installed					
SOE-2	2	Standing Speakers	16" L X 14" W X 2'5" H	Owner Furnished, Owner Installed					
STORAGE				· · ·	· ·				
STE-1	10	Existing Compact Shelving		Owner Furnished, Owner Installed					
STN-1	1	Shelving Track	18' L	Contractor Furnished, Contractor Installed	Contractor to coordinate w/ owner on compatible track. Install per manufacturer's recommendation				
SUPPLIES					· · ·				
SE-1	1	Mini Fridge		Owner Furnished, Owner Installed					
SE-2	1	Steel Lab Table	72" L x 30" W x 39" tall	Owner Furnished, Owner Installed					
SE-3	1	Chemical Cabinet		Owner Furnished, Owner Installed					
TOUCHDOWN SPACE			1						
TE-1	1	TV - 75" Touchdown	62.5" L x 12" W x 38" tall	Owner Furnished, Owner Installed					







7 TV BACKBOX A500 1 1/2" = 1'-0"

METAL KICKERS AT 48" O.C.

8 LIN. FEET W/OUT

METAL CORNER BEAD

SUSPENDED CEILING

METAL WALL ANGLE

METAL STUDS

WHERE PARTITION EXCEEDS

PERPENDICULAR SUPPORT

4 A516

1 M4 - SUPPLIES CABINETS PLAN A516 1/2" = 1'-0"

12 M11 - TOUCHDOWN CABINETS DETAIL A517 1 1/2" = 1'-0"

 SOLID
 SURFACE
 COUNTERTOP.
 SLIGHTLY
 EASED EDGES. SS1 — 3/4" MELAMINE.
 LAMINATE FACED. L1 FLAT FILE
 STORAGE. PN4 RUBBER
 BASE. RB2

DOOR			
NUMBER	PANELS	WIDTH	
4C050	SNGL	3' - 0"	7'
4C200	SNGL	3' - 0"	8'
4C424	SNGL	3' - 0"	8'
4S100	SNGL	3' - 0"	7'
4S100A	PR	5' - 0"	7'
4S100B	PR	5' - 0"	7'
4S100C	PR	5' - 0"	7'
4S105	SNGL	3' - 0"	7'
4S115	SNGL	3' - 0"	8'
4S120	SNGL	3' - 0"	7'
4S120A	SNGL	3' - 0"	7'
4S120B	SNGL	3' - 0"	7'
4S125	SNGL	3' - 0"	8'
4S130	SNGL	3' - 0"	7'
4S135	SNGL	3' - 0"	7'
4S137	SNGL	3' - 0"	7'
4S139	SNGL	3' - 0"	7'
4S141	SNGL	3' - 0"	7'
4S142	SNGL	3' - 0"	7'
4S143	SNGL	3' - 0"	7'
4S144	SNGL	3' - 0"	7'
4S147	SNGL	3' - 0"	7'
4S155	SNGL	3' - 0"	7'

BID ALTERNATE 2

DOOR NUMBER	PANELS	WIDTH	HEIGHT	TYPE	DOOR MATERIAL	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	DOOR GLAZING	SIDELITE GLAZING	STC RATING	HARDWARE	REMARKS
4S130BA	SNGL	3' - 0"	7' - 0"	D3	AL/PNT	AL	PNT	SF4	A, CLR			AL01	
-	<i>\</i>				12' - 3	7/8"			¢	_			
	AS	SCHEDULED			EQ	/		EQ		_			
								A500					
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I													
4 SF4	- BID ALTER	NATE 2											
1/2	" = 1'-0"												

WIDTH	HEIGHT	TYPE	DOOR MATERIAL	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	DOOR GLAZING	SIDELITE GLAZING	STC RATING	HARDWARE	REMARKS	
' - 0"	7' - 0"	EX	EX/PNT	EX	PNT	EX				STOREROOM		
' - 0"	8' - 0 1/4"	D4	GLASS	AL	PNT	SF1	C, CLR			GL01		
' - 0"	8' - 0 1/4"	D4	GLASS	AL	PNT	SF1	C, CLR			GL02		
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1			50	04	SEE DETAIL 12/A601 + 13/A601	
' - 0"	7' - 0"	D5	HM/PNT	НМ	PNT	F2				03		
' - 0"	7' - 0"	D5	HM/PNT	HM	PNT	F2				03		
' - 0"	7' - 0"	D5	HM/PNT	НМ	PNT	F2				03		
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1			50	01	SEE DETAIL 12/A601 + 13/A601	DOOR
' - 0"	8' - 0 1/4"	D3	AL/PNT	AL	PNT	SF2	C, CLR/FROST	CLR / FRST		AL01		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	C, CLR	C, CLR	50	01	SEE DETAIL 12/A601 + 13/A601	FANEL
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1			50	04	SEE DETAIL 12/A601 + 13/A601	
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1			50	04	SEE DETAIL 12/A601 + 13/A601	
' - 0"	8' - 0 1/4"	D3	AL/PNT	AL	PNT	SF3	B, CLR			AL01		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01	NOT INCLUDED IN BID ALT 2	
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01		WIDTH
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR.		01		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR.		01		
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1				02		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01		THICKNESS
' - 0"	7' - 0"	D1	WD/STN	НМ	PNT	F1				05		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01		
' - 0"	7' - 0"	D2	WD/STN	НМ	PNT	F3	B, CLR	B, CLR		01		TYPE
		-	-	1	-	-						

# CHEDULE LEGEND

TYPE PNT - PAINT

HARDWARE

![](_page_14_Figure_8.jpeg)

3 SF3 A600 1/2" = 1'-0"

![](_page_14_Figure_10.jpeg)

- INDICATES THE TYPE OF DOOR PANEL(S)
- SNGL-SINGLE PANEL PR - PAIR OF DOORS IN ONE FRAME
- INDICATES THE FINISHED DOOR PANEL WIDTH
- INDICATES THE FINISHED DOOR PANEL HEIGHT
- INDICATES FINISHED PANEL THICKNESS
- INDICATES DOOR PANEL TYPE. SEE DOOR PANEL ELEVATIONS
- MATERIAL/ FINISH INDICATES DOOR PANEL MATERIAL & FINISH WD - WOOD HM - HOLLOW METAL
  - INDICATES DOOR HARDWARE SET. REFER TO SPECIFICATIONS

### FRAME HEAD HEIGHT

TYPE

INDICATES FRAME TYPE. SEE FRAME ELEVATIONS

MATERIAL/FINISH INDICATES FRAME MATERIAL & FINISH PNT - PAINT BY MFR - BY MANUFACTURER HM - HOLLOW METAL ALUM - ALUMINUM

REMARKS

**GLAZING TYPES** A - 1/4" FLOAT GLASS

B - 1/4" TEMPERED GLASS C - 1/2" TEMPERED GLASS

ANY SPECIAL CONDITIONS REQUIRED

D - ACOUSTIC SYSTEM. (1) IGU W/ 3/8" LAMINATED GLASS AND (1) 3/8" LAMINATED GLASS W/ AIR SPACE - SEE DETAIL 14/A601

![](_page_14_Figure_27.jpeg)

![](_page_14_Figure_28.jpeg)

![](_page_14_Figure_29.jpeg)

![](_page_14_Figure_30.jpeg)

FRAME TYPES 1/4" = 1'-0"

![](_page_14_Figure_32.jpeg)

![](_page_14_Figure_33.jpeg)

6 WN2 A600 1/2" = 1'-0"

![](_page_14_Figure_35.jpeg)

2 SF2 A600 1/2" = 1'-0"

1 SF1 A600 1/2" = 1'-0"

![](_page_14_Figure_38.jpeg)

![](_page_15_Picture_0.jpeg)

![](_page_15_Figure_1.jpeg)

13ACOUSTIC DOOR HEAD/THRESHOLDA6013" = 1'-0"

![](_page_15_Figure_2.jpeg)

![](_page_15_Figure_4.jpeg)

### - MINERAL WOOL INSULATED 16 GA. CRS WELDED 1 PIECE FRAME WITH INTEGRAL STOP - GASKET, PEMKO S-88

- SOLID-CORE WOOD DOOR - JAMB AND HEAD SEAL, PEMKO 29310CS. SET GASKET IN ACOUSTICAL SEALANT CONTINUOUS ACOUSTIC SEALANT, BOTH SIDES - WALL AS SCHEDULED

CORNER BEAD

# 12 DOOR FRAME AT ACOUSTICAL DOOR A601 3" = 1'-0"

![](_page_15_Figure_9.jpeg)

11 STOREFRONT JAMB AT LAMINATE A601 3" = 1'-0"

**BID ALTERNATE 1** 

![](_page_15_Figure_12.jpeg)

## 10 STOREFRONT @ ACT A601 1 1/2" = 1'-0"

![](_page_15_Figure_14.jpeg)

# 9 STOREFRONT @ ACT & GYP A601 1 1/2" = 1'-0"

![](_page_15_Figure_16.jpeg)

- ACOUSTIC BATT INSUL., WHERE OCCURS METAL STUD FRAMING - CAULK JOINT, EA SIDE

SHIM AS NEEDED - FIBERGLASS FILLER INSULATION AT RC OFFICES - H.M. WINDOW SYSTEM - GLAZING AS SCHEDULED

### 8 H.M. WINDOW HEAD @ GYP BD. A601 3" = 1'-0"

![](_page_15_Figure_20.jpeg)

____ EXISTING EXTERIOR STOREFRONT METAL CLOSURE, MATCH FINISH OF INTERIOR STOREFRONT - STOREFRONT AS SCHEDULED SHIM AS NEEDED — CONTINUOUS SEALANT ____

## 6 STOREFRONT JAMB @ EXTERIOR STOREFRONT A601 3" = 1'-0"

**BID ALTERNATE 2** 

![](_page_15_Figure_24.jpeg)

5 STOREFRONT DOOR HEAD A601 3" = 1'-0"

![](_page_15_Figure_26.jpeg)

4 STOREFRONT DOOR JAMB A601 3" = 1'-0"

![](_page_15_Figure_28.jpeg)

3 TYPICAL STOREFRONT JAMB A601 3" = 1'-0"

![](_page_15_Figure_30.jpeg)

2 HM HEAD @ GYP. BD. A601 3" = 1'-0"

![](_page_15_Figure_32.jpeg)

# 7 H.M. WINDOW JAMB @ GYP. BD. A601 3" = 1'-0"

![](_page_15_Figure_35.jpeg)

![](_page_16_Picture_0.jpeg)

ENTRY

![](_page_16_Picture_2.jpeg)

ART GALLERY HALLWAY

![](_page_16_Picture_4.jpeg)

CONFERENCE ROOM

![](_page_16_Picture_6.jpeg)

SNACK BAR

![](_page_16_Picture_8.jpeg)

ENTRY

![](_page_16_Picture_10.jpeg)

OPEN WORKSTATIONS

![](_page_16_Picture_12.jpeg)

VIDEO PRODUCTION STUDIO

![](_page_16_Picture_14.jpeg)

ART GALLERY HALLWAY

![](_page_16_Picture_16.jpeg)

TOUCHDOWN SPACE

![](_page_16_Picture_18.jpeg)

**OPEN WORKSTATIONS** 

![](_page_16_Picture_20.jpeg)

MEDIA REVIEW ROOM

![](_page_16_Picture_22.jpeg)

PHIONE BOOTH

![](_page_16_Figure_24.jpeg)

SYMBOL LEG	END - PIPING
NOTE: ALL ABBREVIATION	S MAY NOT BE USED.
SYMBOL	DESCRIPTION
	SHUT OFF VALVE
, where the second seco	GATE VALVE
	CHECK VALVE
$\overline{\mathbb{N}}$	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
φ	BALL VALVE
Ł	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
s ×	SOLENOID VALVE
	ANGLE VALVE
Ĭ	VENTURI VALVE
$\boxtimes$	BALANCING OR PLUG COCK
$\bigotimes$	FLOW SETTER
$\otimes$	EXPANSION VALVE
	GAS COCK
	MANUAL AIR VENT
FŞI	STRAINER
0-1	GAUGE COCK
	FLEXIBLE CONNECTION
9	PRESSURE GAUGE
Ţ	THERMOMETER
->	PIPE REDUCER
$\odot$	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
0	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
X	PIPE ANCHOR
	FLOAT AND THERMOSTATIC TRAP

SYMBOL LEGEND - MECH						
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.						
SYMBOL	DESCRIPTION					
	SQUARE OR RECTANGULAR SUPPLY DIFFUSER					
	SQUARE OR RECTANGULAR RETURN DIFFUSER					
	SQUARE OR RECTANGULAR EXHAUST DIFFUSER					
$\bigcirc$	ROUND DIFFUSER					
	LINEAR SLOT GRILLE OR DIFFUSER					
	FLEXIBLE DUCT					
	SIDEWALL GRILLE OR REGISTER					
	DUCT HIGH EFFICIENCY TAKE OFF WITH BALANCING DAMPER					
	BALANCING DAMPER					
	FIRE DAMPER					
	FIRE / SMOKE COMBINATION DAMPER					
$ ( ) \qquad ( )$	THERMOSTAT - SENSOR - HUMIDISTAT					

SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR RETURN DUCT DOW
	RECTANGULAR EXHAUST DUCT UP
	RECTANGULAR EXHAUST DUCT DOV
	ROUND SUPPLY DUCT UP
	ROUND SUPPLY DUCT DOWN
	ROUND RETURN DUCT UP
	ROUND RETURN DUCT DOWN
	ROUND EXHAUST DUCT UP
	ROUND EXHAUST DUCT DOWN
	OVAL SUPPLY DUCT UP
	OVAL SUPPLY DUCT DOWN
	OVAL RETURN DUCT UP
	OVAL RETURN DUCT DOWN
	OVAL EXHAUST DUCT UP
	OVAL EXHAUST DUCT DOWN
	SPIRAL OVAL DUCT
	SPIRAL ROUND DUCT
	DUCT INSULATION
	DUCT LINING
	90° RECTANGULAR ELBOW WITH TURNING VANES
	90° ROUND RADIUS ELBOW
	GORED OVAL RADIUS EI BOW
	DUCT SIZE OR SHAPE TRANSITION

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.         ABBREVIATION       DESCRIPTION         —CHWR—       CHILLED WATER RETURN         —CA—       COMPRESSED AIR         —CD—       CONDENSATE DRAIN         —CD—       CONDENSATE DRAIN         —CD—       CONDENSER WATER RETURN         —CD—       CONDENSER WATER RETURN         —CWS       CONDENSER WATER RETURN         —CWS       CONDENSER WATER SUPPLY         —FP—       FIRE PROTECTION         —FPO       FUEL OIL RETURN         —FOS       FUEL OIL VENT         —GR       GLYCOL RETURN         —GR       GLYCOL SUPPLY         —HPC       HIGH PRESSURE CONDENSATE         —MPC       MEDIUM PRESSURE CONDENSATE         —MPC       MEDIUM PRESSURE STEAM         —HPS       HIGH PRESSURE STEAM         —HPS       LOW PRESSURE STEAM         —HPS       LOW PRESSURE STEAM         —HHWR       HEATING HOT WATER RETURN         —HHWR       HEATING HOT WATER RETURN         —HHWR       HEATING HOT WATER SUPPLY         —LPG       LIQUID PROPANE GAS         —MA       MEDICAL AIR         —NO       NATURAL GAS         —NO       NATURAL GA	PIPING LEGEND						
ABBREVIATIONDESCRIPTION—CHWRCHILLED WATER RETURN—CACOMPRESSED AIR—CDCONDENSATE DRAIN—CDCONDENSATE DRAIN—C02CARBON DIOXIDE—CWRCONDENSER WATER RETURN—CWSCONDENSER WATER RETURN—CWSCONDENSER WATER RETURN—FPFIRE PROTECTION—FPRFUEL OIL RETURN—FORFUEL OIL SUPPLY—FORFUEL OIL VENT—GRGLYCOL SUPPLY—HPCHIGH PRESSURE CONDENSATE—MPCMEDIUM PRESSURE CONDENSATE—HPSHIGH PRESSURE STEAM—HPSLOW PRESSURE STEAM—HPSLOW PRESSURE STEAM—HPSHEATING HOT WATER RETURN—HWSHEATING HOT WATER RETURN—HHWRHEATING HOT WATER SUPPLY—LPGLIQUID PROPANE GAS—MAMEDICAL AIR—NONITROUS OXIDE—OOXYGEN—PCPUMPED CONDENSATE—RGREFRIGERANT LIQUID—SMSSNOW MELT RETURN—SMSSNOW MELT RETURN—SMSSNOW MELT SUPPLY—VACVACUUM	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.						
CHIWRCHILLED WATER RETURNCHWSCHILLED WATER SUPPLYCACOMPRESSED AIRCDCONDENSATE DRAINC02CARBON DIOXIDEC03CONDENSER WATER RETURNCWRCONDENSER WATER SUPPLYFPFIRE PROTECTIONFPORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOSFUEL OIL SUPPLYGRGLYCOL RETURNGSGLYCOL RETURNGRGLYCOL SUPPLYHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATEMPSMEDIUM PRESSURE STEAMMPSMEDIUM PRESSURE STEAMHIGH PRESSURE STEAMHIGH OT WATER RETURNHIWRHEATING HOT WATER RETURNHIWRHEATING HOT WATER SUPPLYLPCLIQUID PROPANE GASMAMEDICAL AIRMAMEDICAL AIRMAREFRIGERANT GASRGREFRIGERANT GASRGREFRIGERANT GASRAGREFRIGERANT GASRAGREFRIGERANT GASRAGREFRIGERANT GASRAGSNOW MELT RETURNSMSSNOW MELT RETURNSMSSNOW MELT SUPPLYVACVACUUM	ABBREVIATION	DESCRIPTION					
—CHWSCHILLED WATER SUPPLY—CACOMPRESSED AIR—CDCONDENSATE DRAIN—C02CARBON DIOXIDE—CWRCONDENSER WATER RETURN—CWSCONDENSER WATER SUPPLY—FPFIRE PROTECTION—FPFUEL OIL RETURN—FORFUEL OIL SUPPLY—FOVFUEL OIL VENT—GRGLYCOL RETURN—GSGLYCOL SUPPLY—HPCHIGH PRESSURE CONDENSATE—MPCMEDIUM PRESSURE CONDENSATE—HPSHIGH PRESSURE STEAM—HPSHIGH PRESSURE STEAM—HPSHEATING HOT WATER RETURN—HPSHEATING HOT WATER RETURN—HHWRHEATING HOT WATER SUPPLY—LPGLOW PRESSURE STEAM—HPSHIGH PRESSURE STEAM—MPSMEDIUM PRESSURE STEAM—HPSHIGH OT WATER RETURN—HHWRHEATING HOT WATER SUPPLY—LPGLOUID PROPANE GAS—MAMEDICAL AIR—NGNATURAL GAS—NGNATURAL GAS—NOOXYGEN—PCPUMPED CONDENSATE—REFRIGERANT GAS—RLREFRIGERANT LIQUID—SMRSNOW MELT RETURN—VACVACUUM	CHWR	CHILLED WATER RETURN					
CACOMPRESSED AIRCDCONDENSATE DRAINC02CARBON DIOXIDECWRCONDENSER WATER RETURNCWSCONDENSER WATER SUPPLYFPFIRE PROTECTIONFPFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL RETURNMPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATEHIGH PRESSURE STEAMMPSHIGH PRESSURE STEAMMPSLOW PRESSURE STEAMHIPSLOW PRESSURE STEAMHIPSHEATING HOT WATER RETURNHIHWRHEATING HOT WATER SUPPLYHIPSILQUID PROPANE GASMAMMEDICAL AIRMAMMEDICAL AIRMAMEDICAL AIRMAREFRIGERANT GASMARREFRIGERANT GASRERREFRIGERANT GASRANSNOW MELT RETURNSMSSNOW MELT RETURNWACVACUUM	CHWS	CHILLED WATER SUPPLY					
CDCONDENSATE DRAINC02CARBON DIOXIDECWRCONDENSER WATER RETURNCWSCONDENSER WATER SUPPLYFPFIRE PROTECTIONFPFIRE PROTECTIONFORFUEL OIL RETURNFOSFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL SUPPLYHIGH PRESSURE CONDENSATEMPCHIGH PRESSURE CONDENSATEHPSHIGH PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMHPSHOUM PRESSURE STEAMHINPSHEATING HOT WATER RETURNHINWRHEATING HOT WATER SUPPLYHINWRHEATING HOT WATER SUPPLYHINWRHEATING HOT WATER SUPPLYHINDENNEDICAL AIRNONITROUS OXIDENONITROUS OXIDENONITROUS OXIDEPCPUMPED CONDENSATEPCPUMPED CONDENSATEREFRIGERANT GASRRREFRIGERANT LQUIDSMRSNOW MELT RETURNWACVACUUM	CA	COMPRESSED AIR					
CO2CARBON DIOXIDECWRCONDENSER WATER RETURNCWSCONDENSER WATER SUPPLYFPFIRE PROTECTIONFPFIRE PROTECTIONFORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGRGLYCOL SUPPLYHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATEHPCINGH PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMHPSLOW PRESSURE STEAMHINPSILEATING HOT WATER RETURNHHWRHEATING HOT WATER RETURNHHWRMEDICAL AIRNONITROUS OXIDENONITROUS OXIDEPCPUMPED CONDENSATEPCPUMPED CONDENSATERERIGERANT GASRLREFRIGERANT LQUIDSMRSNOW MELT RETURNSMRSNOW MELT SUPPLY	CD	CONDENSATE DRAIN					
CWRCONDENSER WATER RETURNCWSCONDENSER WATER SUPPLYFPPFIRE PROTECTIONFORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGRGLYCOL SUPPLYHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATEHIGH PRESSURE CONDENSATEHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMHIGH PRESSURE STEAMHIGH PRESSURE STEAMHIGH PRESSURE STEAMHIGH OT WATER RETURNHIGH OT WATER RETURNHIGH OT WATER SUPPLYHIGH RESSURE STEAMHIGH RESSURE STEAM	C02	CARBON DIOXIDE					
CWSCONDENSER WATER SUPPLYFPFIRE PROTECTIONFORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMHPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWRHEATING HOT WATER SUPPLYHHWRKEDIUD PROPANE GASMAMEDICAL AIRMONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT SUPPLYWACUMVACUUM	CWR	CONDENSER WATER RETURN					
FPFIRE PROTECTIONFORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMHPSLOW PRESSURE STEAMHPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWRHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRMONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRRGSNOW MELT SUPPLYSMSSNOW MELT SUPPLYWACUMVACUUM		CONDENSER WATER SUPPLY					
FORFUEL OIL RETURNFOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWRHEATING HOT WATER SUPPLYLPGLOW DROPANE GASMAAMEDICAL AIRMAAMEDICAL AIRNONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT LIQUIDSMRSNOW MELT RETURNWACVACUUM	FP	FIRE PROTECTION					
FOSFUEL OIL SUPPLYFOVFUEL OIL VENTGRGLYCOL RETURNGSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNWACVACUUM	FOR	FUEL OIL RETURN					
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GRGLYCOL RETURNGSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRRREFRIGERANT LIQUIDSMRSNOW MELT RETURNVACVACUUM	FOV	FUEL OIL VENT					
GSGLYCOL SUPPLYHPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMHPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNWACVACUUM	GR	GLYCOL RETURN					
HPCHIGH PRESSURE CONDENSATEMPCMEDIUM PRESSURE CONDENSATELPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWRHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNITROUS OXIDEPCPUMPED CONDENSATEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNVACVACUUM	GS	GLYCOL SUPPLY					
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LPCLOW PRESSURE CONDENSATEHPSHIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNVACVACUUM	MPC	MEDIUM PRESSURE CONDENSATE					
HIGH PRESSURE STEAMMPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNWACVACUUM	LPC	LOW PRESSURE CONDENSATE					
MPSMEDIUM PRESSURE STEAMLPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNVACVACUUM	HPS	HIGH PRESSURE STEAM					
LPSLOW PRESSURE STEAMHHWRHEATING HOT WATER RETURNHHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRL-REFRIGERANT LIQUIDSMRSNOW MELT RETURNSMSSNOW MELT SUPPLYVACVACUUM	MPS	MEDIUM PRESSURE STEAM					
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HHWSHEATING HOT WATER SUPPLYLPGLIQUID PROPANE GASMAMEDICAL AIRNGNATURAL GASNONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNVACVACUUM	——HHWR——	HEATING HOT WATER RETURN					
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NGNATURAL GASNONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSNOW MELT RETURNSNOW MELT SUPPLYVACVACUUM	——MA———	MEDICAL AIR					
NONITROUS OXIDEOOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNSMSSNOW MELT SUPPLYVACVACUUM	NG	NATURAL GAS					
OOXYGENPCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNSMSSNOW MELT SUPPLYVACVACUUM	NO	NITROUS OXIDE					
PCPUMPED CONDENSATERGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNSNOW MELT SUPPLYVACUUM	0	OXYGEN					
RGREFRIGERANT GASRLREFRIGERANT LIQUIDSMRSNOW MELT RETURNSMSSNOW MELT SUPPLYVACVACUUM	PC	PUMPED CONDENSATE					
RL       REFRIGERANT LIQUID        SMR       SNOW MELT RETURN        SMS       SNOW MELT SUPPLY          VACUUM	RG	REFRIGERANT GAS					
SMR     SNOW MELT RETURN      SMS     SNOW MELT SUPPLY      VAC     VACUUM	RL	REFRIGERANT LIQUID					
SMS     SNOW MELT SUPPLY      VAC     VACUUM	SMR	SNOW MELT RETURN					
VAC VACUUM	SMS	SNOW MELT SUPPLY					
	VAC	VACUUM					

SYMBOL LEGEND - MISC							
F	REFERENCE LINES AND SYMBOLS						
SYMBOL	DESCRIPTION						
-	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.						
	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.						
NAME [###]	ROOM / SPACE INDICATOR						
(#)	KEYNOTE INDICATOR						
<b>A</b>	REVISION INDICATOR						
(XX-##)	PLUMBING FIXTURE INDICATOR						
<b>XX-##</b>	EQUIPMENT INDICATOR						
TAG CFM	REGISTER, GRILLE, OR DIFFUSER INDICATOR						
<b>→</b> OR ∽	BREAKLINE						
MATCH LINE SEE XX/XXX	MATCHLINE INDICATOR						
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE						
•	NEW CONNECTION TO EXISTING						
	POINT OF DEMOLITION						

	ABBREVIATIONS	MECHANICAL GENERAL NOTES
	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	1 THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN ARRANGEMENT
	EXISTING	& EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF
(E) (F)	EXISTING	THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS, OR
AC	AIR CONDITION(-ING,-ED)	PROVIDED. CONTRACTOR SHALL MAKE ALTERATIONS AS MAY BE
APD	AIR PRESSURE DROP	NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERATIONAL IN
BD		2. MAJOR DEVIATIONS SUCH AS CHANGES IN SIZES, WEIGHTS, QUANTITIES, OR
BHP	BRAKE HORSE POWER BRITISH THERMAL UNIT	MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
BTUH	BTU/HOUR	EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE
CFH	CUBIC FEET PER HOUR	ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNISHED & INSTALLED
CFM	CUBIC FEET PER MINUTE	AS THOUGH SHOWN AND CALLED OUT IN BOTH DOCUMENTS.
CV	CONTROL VALVE	REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES,
DB		MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, & ALL OTHER
	DOMESTIC COLD WATER	EFFECT.
DHWR	DOMESTIC HOT WATER RECIRC	5. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ALL CODES,
DP	DEPTH, DEEP, OR DROP IN PRESSURE	RULES, REGULATIONS, & REQUIREMENTS OF THE BUILDING OWNER.
EA	EXHAUST AIR	CONFORM WITH ANY APPLICABLE LOCAL SEISMIC REQUIREMENTS.
EER	ENERGY EFFICIENCY RATIO	7. PRIOR TO FABRICATION & INSTALLATION OF ANY MECHANICAL COMPONENT
EFF		MECHANICAL WORK WITH ALL OTHER BUILDING TRADES. INCLUDING
ELEC		BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS
ENT	ENTERING	MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
EVAP	EVAPORAT(-E, -ING, -ED, -OR)	CHARACTERISTICS, FOR ALL EQUIPMENT PRIOR TO ORDERING OR
EWT	ENTERING WATER TEMPERATURE	FABRICATING MECHANICAL EQUIPMENT AND COMPONENTS.
EXT	EXTERNAL	9. THE SPACE ABOVE CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS
FD		ORDERED &/OR INSTALLED. ANY CONFLICTS &/OR CHANGES FOUND DURING
FLA FPI	FULL LOAD AMPS FINS PER INCH	INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE
FPM	FEET PER MINUTE	RESPONSIBILITY OF THE CONTRACTOR.
FPS	FEET PER SECOND	10. ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE MECHANICAL
FSD	FIRE SMOKE DAMPER	DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION
GE	GREASE EXHAUST	11. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW & USE, WHERE
GPH	GALLONS PER HOUR	APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS.
GPM	GALLONS PER MINUTE	DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH
HD		INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS
HP	HORSEPOWER	SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
HR	HOUR	12. ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM
HTG	HEATING	OR MAY NOT PERTAIN TO ANY PORTION OF THE BUILDING. COORDINATE ALL
HZ	HERTZ (FREQUENCY)	MOUNTING REQUIREMENTS WITH ARCHITECTURAL & STRUCTURAL
IN	INCH	DRAWINGS AND SPECIFICATIONS.
KW	KILOWATT	ACCORDANCE WITH ALL MANUFACTURER RECOMMENDATIONS.
LAT		14. ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER. AIR
LBS	POUNDS LATENT HEAT	INLETS & OUTLETS OF SIMILAR TYPES SHALL BE OF THE SAME MANUFACTURER
L RA	LOCKED ROTOR AMPS	15. ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS DEEMED
LVG	LEAVING	UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE
LWT	LEAVING WATER TEMPERATURE	THE OWNER THE CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT
MBH	THOUSAND BTU PER HOUR	CHECK-IN, SAFEKEEPING, & DAMAGE.
MCA	MINIMUM CIRCUIT AMPS	16. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT
MFR	MANUFACTUR(-ER, -ED)	17. CONTRACTOR SHALL OPERATE INSTALLED &/OR MODIFIED SYSTEMS &
NC	NORMALLY CLOSED OR NOISE CRITERIA	DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR
NO		OWNER TO PROVE ALL ASSOCIATED SYSTEMS ARE OPERATIONAL.
NPSH	NET POSITIVE SUCTION HEAD	BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES
NTS	NOT TO SCALE	OR DEVIATIONS IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, &
OA	OUTSIDE AIR	ACCESSORIES SHALL BE RECORDED. THESE REDLINED DRAWINGS SHALL
OD	OUTSIDE DIAMETER	ACCORDANCE WITH PROJECT SPECIFICATIONS.
OZ		19. ALL DUCT ELBOWS SHALL BE LONG RADIUS, UNLESS NOTED OTHERWISE.
PD		
PG PH	PROPOLENE GETCOL PHASE	
PPM	PARTS PER MILLION	
PSF	POUNDS PER SQUARE FOOT	DEFINITIONS
PSI	POUNDS PER SQUARE INCH	
PSIA	PSI ABSOLUTE	
		NOTE: ALL DEFINITIONS MAY NOT BE USED.
PSIG	PSI GAUGE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS,
PSIG RA	PSI GAUGE RETURN AIR RECIPCIII ATE ( ER. ED. INC)	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR PEOLUPEMENTS IN THE
PSIG RA RECIRC REFR	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REERIGERATION	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED",
PSIG RA RECIRC REFR REQD	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE
PSIG RA RECIRC REFR REQD RLA	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.
PSIG RA RECIRC REFR REQD RLA RPM	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED",
PSIG RA RECIRC REFR REQD RLA RPM SA	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE FAICHNEED" "IPPOVED", THE FAICHNEED" AND SIMILAR DUPASES
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SP	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND DEOLESTS IS LIMITED TO THE ENCINEER'S DUTIES AND DESPONISIENTIES AS
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCFM SCW SH SP SPEC(S)	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S)	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCFM SCW SH SP SPEC(S) SQ	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCFM SCW SH SP SPEC(S) SQ SS	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE DRO JECT SITE READY FOR LINI OADING. UNDACKING, ASSEMBLY
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SCW SH SP SPEC(S) SQ SS STD	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SCW SH SP SPEC(S) SQ SS STD TA	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SCW SH SP SPEC(S) SQ SS STD TA TD TEMP	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR TEMP. DROP OR DIFF. TEMPERATURE	NOTE:ALL DEFINITIONS MAY NOT BE USED.INDICATED:THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.DIRECTED:TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.APPROVED:THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.FURNISH:THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."INSTALL:THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY FRECTION
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCFM SCW SH SP SPEC(S) SQ SS STD TA TD TEMP TOT	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR TEMP. DROP OR DIFF. TEMPERATURE TOTAL	NOTE:ALL DEFINITIONS MAY NOT BE USED.INDICATED:THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS.WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFICATIONS ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.DIRECTED:TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.APPROVED:THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER"S ACTION ON THE CONTRACTOR'S SUBMITALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEERS AUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.FURNISH:THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."INSTALL:THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING,
PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SCW SH SP SPEC(S) SQ SS STD TA TD TA TD TEMP TOT TSTAT	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR TEMP. DROP OR DIFF. TEMPERATURE TOTAL THERMOSTAT	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS." INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
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PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SP SPEC(S) SQ SS STD TA TD TEMP TOT TSTAT TYP V VAC VAV VEL VENT VERT VFD	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR TEMP. DROP OR DIFF. TEMPERATURE TOTAL THERMOSTAT TYPICAL VOLT, VOLTAGE OR VENT VACUUM VARIABLE AIR VOLUME VELOCITY VENT, VENTILATION VERTICAL VARIABLE FREQUENCY DRIVE	NOTE:       ALL DEFINITIONS MAY NOT BE USED.         INDICATED:       THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS.         WHERE TERMS SUCH AS "DIRECTED", STO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.         DIRECTED:       TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.         APPROVED:       THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEERS'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.         FURNISH:       THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."         INSTALL:       THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."         PROVIDE:       THE TERM "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB- SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, FITHER AS AN EMPLOYEE, SUBCONTRACTOR, ON SUB- SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLER" IS THE CONTRACTOR
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PSIG RA RECIRC REFR REQD RLA RPM SA SCFM SCW SH SP SPEC(S) SQ SS STD TA TD TEMP TOT TSTAT TYP V VAC VAC VAC VAV VEL VENT VERT VFD VOL VTR WB WC	PSI GAUGE RETURN AIR RECIRCULATE (-ER, -ED, -ING) REFRIGERATION REQUIRED RATED LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SENSIBLE HEAT STATIC PRESSURE SPECIFICATION(S) SQUARE SANITARY SEWER, SOIL, WASTE STANDARD TRANSFER AIR TEMP. DROP OR DIFF. TEMPERATURE TOTAL THERMOSTAT TYPICAL VOLT, VOLTAGE OR VENT VACUUM VARIABLE AIR VOLUME VELOCITY VENT, VENTILATION VERTICAL VARIABLE FREQUENCY DRIVE VOLUME VENT THROUGH ROOF WET BULB TEMP	NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROVIDE: THE TERM "INSTALL" IS USED TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE." INSTALL: THE TERM "INSTALL" IS USED TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, CREATE AND SIMILAR OPERATIONS." INSTALLER: AN "INSTALLER' IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLER'S ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS. THEY ARE ENGAGED TO PERFORM.
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# **REGISTER - GRILLE- DIFFUSER SCHEDULE**

ACCEPTABLE MANUFACTURERS: REMARKS:											
KRUEGER TUTTLE & TITUS PRICE	R BAILEY	<ul> <li>(1) PROVIDE TRANSITION AS NECESSARY.</li> <li>(2) COORDINATE EXACT COLOR SELECTION WITH OWNER AND ARCHITECT.</li> <li>(3) PROVIDE WITH AIR-SCOOP FOR BALANCING.</li> </ul>				<ul> <li>(4) PROVIDE WITH LAY-IN TO HARD LID ADAPTER AS NECESSARY.</li> <li>(5) PROVIDE OWNER WITH TWO LINEAR SLOT ADJUSTMENT TOOLS FOR MODIFYING AIRFLOW DIRECTION.</li> <li>(6) DIFFUSER TO BE BLACK.</li> </ul>				AIRFLOW DIRECTION.	
LABEL	ТҮРЕ	MAX AIRFLOW (CFM)	FACE SIZE	NECK SIZE	<b>BLOW PATTERN</b>	PD (IN-WC)	THROW(S) (FT)	MAX NC	MANUFACTURER	MODEL	REMARKS
LSD-1	LINEAR SLOT SUPPLY	220	4'-3 SLOT	SEE PLANS	2-WAY - 1/2" SLOT	0.130	14-17-24	30	PRICE INDUSTRIES	SDS SERIES	5,6
R-1	LOUVERED RETURN GRILLE	950	24" X 12"	SEE PLANS	N/A	0.100	N/A	30	PRICE INDUSTRIES	535	2,4
R-2	LOUVERED RETURN GRILLE	1750	24" X 24"	SEE PLANS	N/A	0.100	N/A	30	PRICE INDUSTRIES	535	2,4
S-1	SQUARE PLAQUE DIFFUSER	315	12" X 12"	8" Ø	4-WAY	0.343	6-9-14	30	PRICE INDUSTRIES	SPD	1,2
S-2	SQUARE PLAQUE DIFFUSER	545	20" X 20"	10'' Ø	4-WAY	0.203	5-7-10	30	PRICE INDUSTRIES	SPD	1,2
S-3	SQUARE PLAQUE DIFFUSER	235	24" X 24"	6" Ø	4-WAY	0.093	4-5-8	30	PRICE INDUSTRIES	SPD	1,2
S-4	SQUARE PLAQUE DIFFUSER	360	24" X 24"	8" Ø	4-WAY	0.115	4-6-10	30	PRICE INDUSTRIES	SPD	1,2
S-5	SQUARE PLAQUE DIFFUSER	545	24" X 24"	10'' Ø	4-WAY	0.180	5-8-12	30	PRICE INDUSTRIES	SPD	1,2
S-6	SQUARE PLAQUE DIFFUSER	450	24" X 24"	12'' Ø	4-WAY	0.093	4-6-11	15	PRICE INDUSTRIES	SPD	1,2
SGR-1	LOUVERED SIDEWALL RETURN	1500	24" X 24"	24" X 24"	N/A	0.100	N/A	30	PRICE INDUSTRIES	535	2

EXISTING FAN POWERED TERMINAL UNIT SCHEDUL								
ACCEPTABLE MANU	FACTURERS:	REMARKS:						
EXISTING		EXISTING FAN POWERED BOX. REBALANCE TO NEW WATER AND AIR FLOWS AS INDICATED						
LABEL			PRIMARY	AIRFLOW		НОТ		
		SERVES	MAX (CFM)	MIN (CFM)	INLET SIZE	WATER FLOW RATE (GPM)	CHILLEI WATER FLOW RA (GPM)	D { .TE
(E)FCU-F3A	OPEN WORKS	TATIONS	1200	0	18"	4.0	7.30	
(E)FCU-F3B	PRINT MEDIA		850	0	12"	0.0	2.70	
(E)FCU-G3A	OPEN WORKSTATIONS		1200	0	18"	4.0	7.30	
(E)FCU-G3B	ENTRY, CORRIDOR, STORAGE		1075	0	18"	0.0	3.40	
(E)FCU-H3A	CONF ROOM		1200	0	18"	4.0	7.30	

### **EXISTING VAV TERMINAL UNIT SCHEDULE**

ACCEPTABLE	MANUFACTURERS:	REMARKS:					
EXISTING	EXISTING V AS INDICAT	AV BOX. RE ED.	BALANCE TO	O NEW WAT	ER AND AIR FLO	WS	
			AIRF	LOW		HOT WATER HEATING COIL	
LABEL	SERVES		MAX (CFM)	MIN (CFM)	INLET SIZE	MAX AIRFLOW (CFM)	FLOW RATE (GPM)
(E)VAV-E3D	SUPPLIES	400	0	6"	0	0	
(E)VAVR-E3A	LACTATION		200	60	8"	200	0.3
(E)VAVR-E3B	OFFICE 1, 2, 3		400	80	6"	100	0.5
(E)VAVR-E3C	DIRECTOR / OPEN WOR	RKSTATION	1,350	235	12"	475	2.7
(E)VAVR-F3A	OFFICE 4, 5, 6		400	80	6"	850	0.3
(E)VAVR-F3B	MEDIA REVIEW		850	255	12"	850	1.8
(E)VAVR-G3A	<b>TOUCHDOWN &amp; BOOTH</b>	705	215	12"	705	1.5	
(E)VAVR-H3A	VIDEO OFFICE	200	60	6"	100	0.5	
(E)VAVR-H3B	SOUND STUDIO	200	60	6"	100	0.5	
(E)VAVR-H3C	SOUND OFFICE	200	60	6"	100	0.5	
(E)VAVR-H3D	VIDEO PRODUCTION	1,350	405	12"	850	2.9	

![](_page_19_Figure_8.jpeg)

![](_page_20_Figure_0.jpeg)

- 5 CAP DUCT IN THIS APPROXIMATE LOCATION.
- REMOVE EXISTING SENSOR/THERMOSTAT AND PROVIDE NEW
- EXISTING LINEAR SLOT DIFFUSER TO BE REMOVED, CLEANED, AND REINSTALLED.
- 8 DEMOLISH EXISTING LINEAR SLOT DIFFUSER.
- DEMOLISH EXISTING DIFFUSERS AND GRILLES IN THIS AREA UNLESS NOTED OTHERWISE.

![](_page_20_Picture_7.jpeg)

SYMBOL LEGEND - MISC							
REFERENCE LINES AND SYMBOLS							
DESCRIPTION							
VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.							
ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.							
ROOM / SPACE INDICATOR							
KEYNOTE INDICATOR							
REVISION INDICATOR							
PLUMBING FIXTURE INDICATOR							
EQUIPMENT INDICATOR							
REGISTER, GRILLE, OR DIFFUSER INDICATOR							
BREAKLINE							
MATCHLINE INDICATOR							
CONTRACT LIMIT LINE: DASHDOT, WIDE LINE							
NEW CONNECTION TO EXISTING							
POINT OF DEMOLITION							

### SYMBOL LEGEND - PIPING

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.					
SYMBOL	DESCRIPTION				
	HOSE BIBB / WALL HYDRANT				
<b>+</b>	CLEANOUT TO GRADE				
- <del>O</del> -	FLOOR CLEANOUT				
4	WALL CLEANOUT				
	FLOOR DRAIN				
	FLOOR SINK				

### DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY

THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

	PIPING LEGEND							
	NOTE:	ALL ABBREVIATIONS MAY NOT BE USED.						
	ABBREVIATION	DESCRIPTION						
		160°F HOT WATER						
	160R	160°F HOT WATER RETURN / CIRCULATION						
/ 10		180°F HOT WATER						
15		180°F HOT WATER RETURN / CIRCULATION						
	——————————————————————————————————————	ACID WASTE						
		ACID VENT						
	C02	CARBON DIOXIDE						
	CWV·	COMBINATION WASTE AND VENT						
	CA	COMPRESSED AIR						
	CD	CONDENSATE DRAIN						
	DCW	DOMESTIC COLD WATER						
	DHW	DOMESTIC HOT WATER						
	DHWR	DOMESTIC HOT WATER RECIRCULATION						
	DI	DEIONIZED WATER						
	DSW	DOMESTIC SOFT WATER						
		DEMOLISHED PIPING						
	FP	FIRE PROTECTION						
	FOR	FUEL OIL RETURN						
	FOS	FUEL OIL SUPPLY						
	FOV	FUEL OIL VENT						
	GW	GREASE WASTE						
	HPC	HIGH PRESSURE CONDENSATE						
	MPC	MEDIUM PRESSURE CONDENSATE						
	LPC	LOW PRESSURE CONDENSATE						
		INDUSTRIAL COLD WATER						
	IHW	INDUSTRIAL HOT WATER						
]	IW	IRRIGATION WATER						
	LPG	LIQUID PROPANE GAS						
DNS,	MA	MEDICAL AIR						
	NG	NATURAL GAS						
CATE	NO	NITROUS OXIDE						
	0	OXYGEN						
	OD	OVERFLOW ROOF DRAIN / STORM DRAIN						
I THE AND	PC	PUMPED CONDENSATE						
	RD	ROOF DRAIN / STORM DRAIN						
ГО		SANITARY SEWER						
JECT	VAC	VACUUM						
tion, Jring,		VENT						

SYMBOL LEGEND - PIPING							
NOTE: ALL ABBREVIATION	S MAY NOT BE USED.						
SYMBOL	DESCRIPTION						
$\bowtie$	SHUT OFF VALVE						
Image: A state	GATE VALVE						
	CHECK VALVE						
Ř	AUTOMATIC 2-WAY VALVE						
×	AUTOMATIC 3-WAY VALVE						
$\left  \right\rangle$	GLOBE VALVE						
φ	BALL VALVE						
ž	RELIEF VALVE						
	PRESSURE REDUCING VALVE						
	BUTTERFLY VALVE						
S	SOLENOID VALVE						
	ANGLE VALVE						
	VENTURI VALVE						
	BALANCING OR PLUG COCK						
$\boxtimes$	FLOW SETTER						
 ⊗	EXPANSION VALVE						
$\overline{\nabla}$	GAS COCK						
Х маv	MANUAL AIR VENT						
⊢ <del>,</del>	STRAINER						
01	GAUGE COCK						
	FLEXIBLE CONNECTION						
9	PRESSURE GAUGE						
ļ	THERMOMETER						
->-	PIPE REDUCER						
$\odot$	REFRIGERANT SITE GLASS						
	REFRIGERANT STRAINER						
	REFRIGERANT FILTER DRIER						
O	90 DEGREE ELBOW UP						
Э	90 DEGREE ELBOW DOWN						
O	90 DEGREE TEE UP						
	90 DEGREE TEE DOWN						
	PIPE UNION						
	PIPE CAP						
X	PIPE ANCHOR						
— <u> </u>	FLOAT AND THERMOSTATIC TRAP						

	ABBREVIATIONS	PLUMBING GENERAL NOTES
	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	1. THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT
(E)	EXISTING	AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS THESE DRAWINGS DO NOT SHOW ALL OFFSETS BENDS
(F)	FUTURE	OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE
AC	AIR CONDITION(-ING,-ED)	PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL
APD BD	AIR PRESSURE DROP BALANCING DAMPER	IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS
BHP	BRAKE HORSE POWER	REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
BTU	BRITISH THERMAL UNIT	2. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO
BTUH	BTU/HOUR	UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING
CFH	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
CV	CONTROL VALVE	3. THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES,
DB	DRY BULB TEMPERATURE	MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER
	DOMESTIC COLD WATER	REGULATIONS IN EFFECT.
DHWR	DOMESTIC HOT WATER RECIRC	4. THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES,
DP	DEPTH, DEEP, OR DROP IN PRESSURE	5. PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT
EA	EXHAUST AIR	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL
	ENERGY EFFICIENCY RATIO	TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR,
ELEC	ELECTRIC	THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
ELEV	ELEVATION	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL
ENI EVAP	ENTERING EVAPORAT(-F -ING -FD -OR)	7. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE. WHERE
EWT	ENTERING WATER TEMPERATURE	APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS.
EXT	EXTERNAL	SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO
FD FLA		INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS
FPI	FINS PER INCH	8. ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR
FPM	FEET PER MINUTE	BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR
FPS	FEET PER SECOND	9. PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR
FSD GE	FIRE SMOKE DAMPER	MOVEMENT OF ALL PIPING.
GPH	GALLONS PER HOUR	ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT.
GPM	GALLONS PER MINUTE	11. ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1).
HD	HEAD	SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE.
HP	HORSEPOWER	12. PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF
HR	HOUR	13. PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES
HTG	HEATING	IN DIRECTION GREATER THAN 45-DEGREES.
HZ		COPPER OR PLASTIC COATED.
KW	KILOWATT	15. COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED
LAT	LEAVING AIR TEMPERATURE	COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL
LBS	POUNDS	INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
	LATENT HEAT	MANNER PARALLEL TO THE BUILDING STRUCTURE.
LVG	LEAVING	17. ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE POLISHED CHROME PLATED
LWT	LEAVING WATER TEMPERATURE	18. ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS
MBH	THOUSAND BTU PER HOUR	UNDER SINKS SHALL BE POLISHED CHROME PLATED. 19. DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND
MFR	MANUFACTUR(-ERED)	VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL
NC	NORMALLY CLOSED OR NOISE CRITERIA	PROVIDE ALL ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING CODE.
NIC		20. ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED
NO NPSH	NORMALLY OPEN NET POSITIVE SUCTION HEAD	IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT. 21. ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE
NTS	NOT TO SCALE	SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT.
OA	OUTSIDE AIR	22. SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM. 23. SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
OD OZ		24. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE
PD	PRESSURE DROP OR DIFFERENCE	25. FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE
PG	PROPOLENE GLYCOL	SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO
PH		PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON
PPM	POUNDS PER SQUARE FOOT	THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS
PSI	POUNDS PER SQUARE INCH	26. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE
PSIA	PSIABSOLUTE	EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS TRANSITIONS VALVES AND OTHER DEVICES AND
	PSI GAUGE RETURN AIR	ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
RECIRC	RECIRCULATE (-ER, -ED, -ING)	27. SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
REFR	REFRIGERATION	28. ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN
		29. FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF
RPM	REVOLUTIONS PER MINUTE	STANDARDS.
SA	SUPPLY AIR	
SCFM	STANDARD CUBIC FEET PER MINUTE	
SCW	SUFT CULD WATEK SENSIBLE HEAT	
SP	STATIC PRESSURE	
SPEC(S)	SPECIFICATION(S)	PE001 PLUMBING COVER SHEET
SQ	SQUARE SANITARY SEWER SOIL WASTE	PE601 PLUMBING SCHEDULES
STD	STANDARD	
TA		
	TEMP. DROP OR DIFF.	
TOT	TOTAL	
TSTAT	THERMOSTAT	
TYP		
VAC	VOLI, VOLIAGE OK VENT VACUUM	
VAV	VARIABLE AIR VOLUME	
VEL	VELOCITY	
	VENT, VENTILATION VERTICAL	
VFD	VARIABLE FREQUENCY DRIVE	
VOL	VOLUME	
VTR		
WC		
WG	WATER GAUGE	
WPD	WATER PRESSURE DROP	
	WAIER	

![](_page_21_Figure_15.jpeg)

![](_page_22_Picture_0.jpeg)

![](_page_22_Figure_1.jpeg)

![](_page_22_Figure_2.jpeg)

TO FIXTURE

 $\bigcirc$ 

AIR ADMITTANCE VALVE. -

INSTALL PER MANUFACTURER

RECOMMENDATIONS. PROVIDE STUDOR MINI-VENT

OR PRIOR APPROVED EQUAL

![](_page_22_Figure_3.jpeg)

![](_page_22_Figure_4.jpeg)

![](_page_23_Figure_0.jpeg)

GENERAL SHEET NOTES
<ol> <li>ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1' UP TO 1-14" PIPE AND 1-16" INSULATION FOR PIPING 1-12" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 12" UP TO 1-14" PIPING AND 1" INSULATION FOR PIPING 1-12" OR LARGER.</li> <li>THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.</li> <li>DISSIMLAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.</li> <li>ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST: CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM, FILL SYSTEM WITH WATER/CHORNING PROCEDURE SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PRESONS PERFORMING PROCEDURE.</li> <li>BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLESTEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.</li> <li>ALL PUMBING PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) TO BE LOCATED IN BUILDING ENVELOPE AND TO BE FULLY INSULATED. INCLUDING ANY ROOF DRAIN BOWLS.</li> <li>THE CONTRACTOR SHALL FIELD VERIFY EXISTING FIEL CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.</li></ol>
○ SHEET KEYNOTES
<ol> <li>RELOCATE EXISTING 3" VENT STACK AND 3" CLEAN-OUT.</li> <li>PROVIDE AIR ADMITTANCE VALVE</li> <li>CONNECT TO EXISTING SANITARY SEWER LINE IN THIS APPROXIMATE LOCATION.</li> <li>CONNECT TO EXISTING DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING LINES IN THIS APPROXIMATE LOCATION.</li> </ol>

![](_page_23_Figure_2.jpeg)

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	SYMBOLS LEGEND								
SYMBOL	DESCRIPTION								
REFERENC	E AND LINE SYMBOLS								
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.								
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.								
ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.								
	KEYNOTE INDICATOR.								
	REVISION INDICATOR.								
CU-1	EQUIPMENT INDICATOR.								
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.								
	NEW LINE: MEDIUM LINE.								
	EXISTING TO REMAIN LINE: THIN LINE.								
	DEMOLITION LINE: DASHED, MEDIUM LINE								
<u>X-X</u> 1LA-3	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.								
WIRING ME	THODS								
	WIRING.								
A-1	SINGLE BRANCH CIRCUIT HOME RUN TO PANELBOARD WITH DEDICATED NEUTRAL CONDUCTOR. LETTER AND NUMBER NOTATION IDENTIFY PANEL AND CIRCUIT NUMBER.								
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.								
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.								
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.								
HC	ADA ACCESS PUSH PLATE								
Ø	JUNCTION BOX.								
0 _{SC}	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.								
Ø _{SP}	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.								
	CABLE TRAY ABOVE ACCESSIBLE CEILING.								
A"xB" +/-C'-D"	DEPTH. +/-C'-D" DENOTES CABLE TRAY ELEVATION ABOVE OR BELOW FINISHED SURFACE.								
	CABLE J-HOOKS ABOVE ACCESSIBLE CEILING.								
•	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT								
	GROUND BUSBAR. REFER TO GROUNDING RISER DIAGRAM FOR								
	ADDITIONAL INFORMATION.								
(W(3)									
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.								
(W-3E)	BATTERY PACK AND/ OR GENERATOR AND/ OR CENTRALIZED INVERTER AND/ OR CENTRALIZED UPS CONNECTION AS INDICATED IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.								
EM	EMERGENCY.								
NL	NIGHT LIGHT: DO NOT SWITCH.								
<u>↑</u>	EGRESS DIRECTION ARROW (EXIT SIGNS).								
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED								
•	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED								
FIRE ALAR	M								
FACP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.								
СМ	CONTROL MODULE.								
ММ	MONITOR MODULE.								
F	FIRE ALARM MANUAL PULL STATION.								
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.								
2	DETECTOR, SMOKE.								
$\boxtimes \Box$	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.								
75	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.								
▶ 8 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.								
SECURITY	· · ·								
MS	MOTION SENSOR.								
ES	ELECTRIC STRIKE.								
EPT	ELECTRICL POWER TRANSFER.								
EH/EL	ELECTRIC HINGE/LATCH.								
	CARD READER.								
	MAG LOCK.								

	SYMBOLS LEGEND
SYMBOL	DESCRIPTION
LIGHTING	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3E)	FIXTURE IDENTIFICATION: EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND/ OR GENERATOR AND/ OR CENTRALIZED INVERTER AND/ OR CENTRALIZED UPS CONNECTION AS INDICAT IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	
1	
<u> </u>	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
U	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
FACP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
СМ	CONTROL MODULE.
ММ	MONITOR MODULE.
F	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
3	DETECTOR, SMOKE.
$\boxtimes \triangleleft$	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
75	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
WIRING DE	VICES
₿	RECEPTACLE, DUPLEX: NEMA 5-20R.
₿	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
₿ A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
₿	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
× \$	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
ELECTRICA	AL POWER AND DISTRIBUTION
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
(   	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
r -(¦	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
( #AF #AT	CIRCUIT BREAKER, ADJUSTABLE TRIP. "225AF" REPRESENTS THE RATING AND "150AT" REPRESENTS THE TRIP SETTING. (ONE-LINE DIAGRAM).
$\sim$	MOTOR.
$\frac{WW}{MM}$	TRANSFORMER (ONE-LINE DIAGRAM).
"1H"	PANELBOARD (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
•) 225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	PANELBOARD CABINET, FLUSH MOUNTED.
<u>e 7 7</u>	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
\$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER (SEE ONE-LINE FOR SIZE)

		ABBREV	<b>IAT</b>	IONS
		NOTE: ALL ABBREVIAT	IONS MAY	Y NOT BE USED.
	1P	SINGLE POLE	kVAR	KILOVOLT AMPERE REACTIVE
	1PH 1WAY	SINGLE-PHASE ONE-WAY	kW kWh	KILOWATT KILOWATT HOUR
AS	2/C	TWO-CONDUCTOR	LED	LIGHT EMITTING DIODE
	3/C	THREE-CONDUCTOR		
WITH	3WAY 4OUT	THREE-WAY QUADRUPLE RECEPTACLE	LFNC	NONMETALLIC CONDUIT
			LPS I RA	LOW PRESSURE SODIUM
	4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
	4W 4WAY	FOUR-WIRE FOUR-WAY	LV MATV	LOW VOLTAGE MASTER ANTENNA TELEVISION
	A	ABOVE COUNTER	MAX	SYSTEM MAXIMUM
	AC	ACCESS CONTROL SYSTEM	MC	
	ADA	AMERICANS WITH DISABILITIES ACT	MCA	MAIN CIRCUIT BREAKER
	ADJ		MCC MCP	MOTOR CONTROL CENTER
	AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
	AIC	AMPERE INTERRUPTING CAPACITY	MG MH	MOTOR GENERATOR MANHOLE
	ALUM AMP	ALUMINUM AMPERE	MIN MLO	MINIMUM MAIN I UGS ONI Y
	ANN	ANNUNCIATOR	MOCP	
	AP	ACCESS POINT (WIRELESS DATA)	MTS	MANUAL TRANSFER SWITCH
	AR ASC	AS REQUIRED AMPS SHORT CIRCUIT	NA NC	NOT APPLICABLE NORMALLY CLOSED
	ATS		NEC	
	AV	AUDIO VISUAL	NEMA	MATIONAL ELECTRICAL MANUFACTURERS
	AWG BB	AMERICAN WIRE GAGE BUCK-BOOST TRANSFORMER	NFC	ASSOCIATION NATIONAL FIRE CODE
	XFMR BEE		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
	C CAT	CEILING MOUNTED CATEGORY	NL NO	NIGHT LIGHT NORMALLY OPEN
	CATV	COMMUNITY ANTENNA	NTS OC	NOT TO SCALE ON CENTER
	СВ	CIRCUIT BREAKER	OCP	OVER CURRENT PROTECTION
	ССВА	CUSTOM COLOR AS SELECTED BY ARCHITECT	OE OF/CI	OWNER ELECTRONICS OWNER FURNISHED/
	CCTV CF/CI	CLOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED/	OF/OI	CONTRACTOR INSTALLED
		OWNER INSTALLED	OFF OH DR	OVERHEAD (COILING) DOOR
	СЕВА	CUSTOM FINISH AS SELECTED BY ARCHITECT	OL PB	OVERLOAD PUSHBUTTON
	CI CKT	CONTACT INDICATOR CIRCUIT	PF	POWER FACTOR
	CM	CONSTRUCTION MANAGER	PNL	PANEL
	CND	CONVENIENCE OUTLET	PNM PR	PLENUM PAIR
	COR	CONTRACTING OFFICER'S REPRESENTATIVE	PS	POWER SUPPLY
	CP	CONTROL PANEL	PTZ	PAN/TILT/ZOOM
ED).	CT	CURRENT TRANSFORMER	PV QTY	PHOTO VOLTAIC QUANTITY
	CIV CU	CABLE TELEVISION COPPER	R	REMOVE
	dBA DPDT	UNIT OF SOUND LEVEL	RMC	RIGID METAL CONDUIT
	D9		RNC RO	RIGID NONMETAL CONDUIT REMOTE DOOR OPEN
	E	ENHANCED	RPM RPD	REVOLUTIONS PER MINUTE
	EA EM	EACH EMERGENCY	RR	REMOVE AND RELOCATE
	EMT ENT	ELECTRICAL METALLIC TUBING	S/S SCA	START/STOP SHORT CIRCUIT AMPS
			SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
	EQUIP	EQUIPMENT	SF	SQUARE FOOT (FEET)
	ER EX	EQUIPMENT ROOM EXISTING	SFDA	SELECTED BY ARCHITECT
	F	FURNITURE MOUNTED	SPD SPDT	SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW
	FCP	FIRE ALARM CONTROL PANEL	SPEC SPP	SPECIFICATION STATION PATCH PANEL
	FLA FMC	FULL LOAD AMPS FLEXIBLE METAL CONDUIT	SPST	SINGLE POLE, SINGLE THROW
s	FOB	FREIGHT ON BOARD	ST SWBD	SINGLE THROW SWITCHBOARD
	FVNR	FULL VOLTAGE	SWGR TI	SWITCHGEAR TWIST LOCK
	FVR	NON-REVERSING FULL VOLTAGE REVERSING	TP	TELEPHONE POLE
	GEN		TP TR	TWISTED PAIR TELECOMMMUNICATIONS
	GFP	GROUND FAULT PROTECTION	ттв	ROOM TELEPHONE TERMINAL BOARD
	GIG GND	GIGA HERTZ GROUND	TV	
	HD	HEAVY DUTY	1055	SUPPRESSER
	HOA	HAND-OFF-AUTOMATIC	TYP UF	TYPICAL UNDERFLOOR
	HP HPF	HORSE POWER HIGH POWER FACTOR		
	HPS	HIGH PRESSURE SODIUM	053	SUPPLY
	HWM	HORIZONTAL WIRE	V VA	VOLTS VOLT AMPERE
	HZ	MANAGEMENT HERTZ	VFC/VF D	VARIABLE FREQUENCY MOTOR
EAS	I/O		VIC	
	IMC		VSS VWM	VIDEO SURVEILLANCE SYSTEM VERTICAL WIRE MANAGEMENT
	IN/IS	CONDULI INSULATED/ ISOLATED	W/ W/O	WITH WITHOUT
	IR ,I-ROY		WP	WEATHERPROOF
SE AS	kV	KILOVOLT	VVPP XFMR	WIRELESS PATCH PANEL
	кVА	KILUVULI AMPERE		

### GENERAL ELECTRICAL NOTES

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
- A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
- B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- 5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
- 6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

### SITE COORDINATION

THE LOCATION, CAPACITY, AND VOLTAGE OF THE LINES ARE ALL IN ACCORDANCE WITH DATA GIVEN THIS OFFICE BY THE UTILITY COMPANY. COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE INSTALLATION OF THE ELECTRICAL SERVICE. COMPLY WITH UTILITY REGULATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

TELEPHONE UTILITY

UNIVERSITY OF UTAH

PERSON CONTACTED: LISA OSBORNE DATE: -PHONE NUMBER: 801-557-3909 EMAIL: LISA.OSBORNE@UTAH.EDU

	ELECTRICAL SHEET INDEX
EE001	ELECTRICAL COVER SHEET
EE701	TYPICAL MOUNTING DETAILS
EE702	TYPICAL ELECTRICAL DETAILS
EE703	TELECOM CABLE TRAY DETAILS
ED101	FOURTH FLOOR ELECTRICAL DEMOLITION PLAN
ED102	FOURTH FLOOR ELECTRICAL DEMOLITION RCP PLAN
EP101	FOURTH FLOOR POWER PLAN
EP102	FOURTH FLOOR UNDERFLOOR BASKET TRAY
EP201	FOURTH ELECTRICAL REFLECTED CEILING PLAN
EP601	ONE-LINE DIAGRAM & SCHEDULES
EP602	ELECTRICAL RISERS RISERS
EL101	FOURTH FLOOR LIGHTING PLAN
EL601	LIGHTING CONTROL SCHEDULE
EL602	LIGHTING FIXTURE SCHEDULE & DETAILS
EY101	FOURTH FLOOR AUXILIARY PLAN
EY102	AUXILIARY RISERS

### DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS." PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE

AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR

OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE

OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

![](_page_24_Picture_28.jpeg)

![](_page_25_Figure_0.jpeg)

### GENERAL SHEET NOTES MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY: A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC). B - EQUIPMENT SHOP DRAWINGS. C - FIELD INSTRUCTIONS. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

![](_page_25_Figure_6.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_2.jpeg)

# 7 TYPICAL FLAT PANEL RECEPTACLE ROUGH-IN DETAIL.2

![](_page_26_Figure_4.jpeg)

(2) LETTERING IS TO BE .25" HIGH, CENTERED, AND FORMATTED AS SHOWN. FIRST SET OF SYSMBOLS CORRESPOND TO THE PANEL THE EQUIPMENT IS TIED TO, SEE TYPICAL PANELBOARD LABEL DETAIL. THIRD '#' IS TO IDENTIFY THE CIRCUIT BREAKER THE EQUIPMENT IS TIED TO.

![](_page_26_Figure_6.jpeg)

![](_page_26_Figure_7.jpeg)

TYPICAL LABELING FOR SWITCHBOARDS

![](_page_26_Figure_10.jpeg)

![](_page_26_Figure_11.jpeg)

![](_page_26_Figure_12.jpeg)

![](_page_26_Figure_82.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_27_Figure_2.jpeg)

![](_page_27_Figure_3.jpeg)

![](_page_27_Figure_4.jpeg)

![](_page_27_Figure_5.jpeg)

![](_page_27_Figure_6.jpeg)

THREADED ROD-

(TYP)

![](_page_27_Figure_7.jpeg)

![](_page_28_Figure_0.jpeg)

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	○SHEET KEYNOTES		GENERAL SHEET NOTES
	1 DEMOLISH EXISTING ELECTRICAL DEVICE AND CIRCUIT BACK TO SOURCE OR NEAREST DEVICE THAT IS TO REMAIN ON CIRCUIT. WHERE EXISTING LOADS ON CIRCUIT ARE TO REMAIN CONTRACTOR SHALL INTERCEPT CIRCUIT AND EXTEND AS REQUIRED. MOST DEVICES ARE LOCATED IN RAISED FLOOR.	1	UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPM SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN TO FIRST ACTIVE DEVICE THAT REMAINS.
	2 COORDINATE WITH UIT TO DEMOLISH/REMOVE WIRELESS ACCESS/DATA PORT AND DATA CABLING. CONTRACTOR TO DEMOLISH RACEWAY BACK TO SOURCE. MOST DATA CABLING IS LOCATED IN RAISED FLOOR.	2	PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
	3 CONTRACTOR TO PROTECT AND MAINTAIN EXISTING EQUIPMENT UNLESS NOTED OTHERWISE.	3	PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THA THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
	4 CONTRACTOR TO PROTECT AND MAINTAIN EXISTING FIRE ALARM DEVICES.	4	REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WH ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY W ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
		5	REMOVE ALL FIRE ALARM DEVICES AND ASSOCIATED CONDUIT AND WIRING WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED. EXISTING FIRE ALARM DEVIC AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOC WHERE EXISTING DEVICES ARE REMOVED.
		6	REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
		7	REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOOF PARTITIONS AND LIGHTING.
		8	REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNETS, ETC. BACK TO SOU
		9	ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
		10	) ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.
		11	UPDATE ALL PANEL SCHEDULES WITH TYPE WRITTEN SCHEDULES WHERE LOADS AN ADJUST, REMOVED OR ADDED AS PART OF THIS PROJECT.
		12	2 PATCH AND REPAIR ALL WALLS, FLOORS AND CEILINGS THAT ARE TO REMAIN WHER THEY ARE DAMAGED FOR TO COMPLETE THE ELECTRICAL SCOPE.
	·	-	

![](_page_28_Picture_3.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

NH2-6

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(7)

○SHEET KEYNOTES	GENERAL SHEET NOTES
1 DEMOLISH EXISTING FIRE ALARM DEVICE. KEEP BUILDINGS SYSTEM UP AND RUNNING DURING CONSTRUCTION TO MAINTAIN BUILDINGS OCCUPANCY.	1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUID SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGI TO FIRST ACTIVE DEVICE THAT REMAINS.
<ol> <li>DEMOLISH EXISTING FIRE ALARM DEVICE. KEEP BUILDINGS SYSTEM UP AND RUNNING DURING CONSTRUCTION TO MAINTAIN BUILDINGS OCCUPANCY.</li> <li>CONTRACTOR TO PROTECT AND MAINTAIN EXISTING FIRE ALARM DEVICES.</li> <li>DEMOLISH EXISTING LIGHTING DEVICES AND ALL ASSOCIATED EQUIPMENT AND CIRCUITS BACK TO SOURCE. WHERE EXISTING DEVICES ARE TO REMAIN EXTEND CIRCUITS WHERE NEEDED TO KEEP EXISTING DEVICES ANE TO REMAIN EXTEND CIRCUITS WHERE NEEDED TO KEEP EXISTING DEVICES ENERGIZED.</li> <li>CONTRACTOR TO PROTECT AND MAINTAIN LIGHT FIXTURES OUT OF SCOPE AND TO EXTEND CONDUIT AND CABLING AS REQUIRED.</li> <li>CONTRACTOR TO PROTECT AND MAINTAIN EXISTING LIGHTING FIXTURES AND CONTROLS AND KEEP ENERGIZED.</li> <li>CONTRACTOR TO PROTECT AND MAINTAIN ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT INCLUDING VAV'S.</li> </ol>	<ol> <li>UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUII SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGI TO FIRST ACTIVE DEVICE THAT REMAINS.</li> <li>PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AN INCLUDE ALL COSTS IN BID.</li> <li>PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY TH THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.</li> <li>REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. W ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY I ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.</li> <li>REMOVE ALL FIRE ALARM DEVICES AND ASSOCIATED CONDUIT AND WIRING WHER EXISTING WALLS AND CEILINGS ARE BEING REMOVED. EXISTING FIRE ALARM DEVI AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LO WHERE EXISTING DEVICES ARE REMOVED.</li> <li>REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NO ABANDONED PREVIOUS TO</li></ol>
	<ol> <li>UPDATE ALL PANEL SCHEDULES WITH TYPE WRITTEN SCHEDULES WHERE LOADS ADJUST, REMOVED OR ADDED AS PART OF THIS PROJECT.</li> <li>PATCH AND REPAIR ALL WALLS, FLOORS AND CEILINGS THAT ARE TO REMAIN WHE THEY ARE DAMAGED FOR TO COMPLETE THE ELECTRICAL SCOPE.</li> </ol>

![](_page_29_Figure_5.jpeg)

![](_page_29_Picture_6.jpeg)

![](_page_30_Figure_2.jpeg)

○SHEET KEYNOTES	GENERAL SHEET NOTES
1 CONTRACTOR TO PROVIDE FLOOR BOX COVER FRS FL-500P-PLP-BLK-C OR EQUAL. ARCHITECT TO SELECT FINISH AND FLANGING DEPTH. CONTRACTOR TO COORDINATE WITH ARCHITECT AND FURNITURE PRIOR TO INSTALLING FLOOR BOX COVER.	1 UNLESS NOTED OTHERWISE, ELECTRICAL ITEMS SHOWN IN DARK AND LINES ARE NEW AND THE CONTRACTOR SHALL PROVIDE THEM. ITEMS SHOWN IN SOLID LIGHT LINES ARE TO REMAIN.
2 CONTRACTOR TO PROVIDE EZ-PATH SERIES 33 FIRE-RATED PATHWAY. CATALOG NUMBER EZDP33FWS WITH EXTENSION CATALOG NUMBER EZD33E OR EQUAL. +18" ABOVE RAISED FLOOR.	2 CONTRACTOR SHALL UPDATE ALL NEW AND EXISTING PANEL SCHEDUL WITH NEW CIRCUIT DATA. SCHEDULE SHALL BE ON A CARD STOCK TYP MATERIAL AND TYPED WITH THE UPDATED INFORMATION.
3 CONTRACTOR TO INSTALL HUBBELL HBL260 OR EQUAL TO SLAB UNDER RAISED FLOOR UNDER FLOOR BOX COVER. CONTRACTOR TO COORDINATE WITH ARCHITECT AND FURNITURE PRIOR TO INSTALLING JUNCTION BOX. JUNCTION BOX IS FOR AV CONNECTION TO TV. REFER TO CALLOUT DETAIL.	<ul> <li>3 PROVIDE BLANK FACEPLATES AT ALL LOCATIONS WHERE DEVICES WERD DEMOLISHED BUT RACEWAY WAS LEFT TO REMAIN AND NO NEW DEVICE BEING INSTALLED AT THAT LOCATION.</li> <li>4 CONTRACTOR SHALL PROVIDE DEMOLITION AND PATCH AND REPAIR OF</li> </ul>
4 CONTRACTOR TO UPDATE PANEL SCHEDULES.	WALLS, CEILINGS, FLOORS, ETC TO ROUTE RACEWAYS AND EQUIPEMN
5 JUNCTION BOX FOR AV CONNECTION TO TV. REFER TO CALLOUT DETAIL.	

![](_page_30_Figure_4.jpeg)

![](_page_31_Figure_1.jpeg)

![](_page_31_Figure_2.jpeg)

○ SHEET KEYNOTES	GENERAL SHEET NOTES
1 CONTRACTOR TO PROTECT AND MAINTAIN EXISTING BASKET TRAY UNDERNEATH RAISED FLOOR.	1 UNLESS NOTED OTHERWISE, ELECTRICAL ITEMS SHOWN IN DARK AND LINES ARE NEW AND THE CONTRACTOR SHALL PROVIDE THEM. ITEMS SHOWN IN SOLID LIGHT LINES ARE TO REMAIN.
	2 CONTRACTOR SHALL UPDATE ALL NEW AND EXISTING PANEL SCHEDU WITH NEW CIRCUIT DATA. SCHEDULE SHALL BE ON A CARD STOCK TYP MATERIAL AND TYPED WITH THE UPDATED INFORMATION.
	3 PROVIDE BLANK FACEPLATES AT ALL LOCATIONS WHERE DEVICES WE DEMOLISHED BUT RACEWAY WAS LEFT TO REMAIN AND NO NEW DEVIC BEING INSTALLED AT THAT LOCATION.
	4 CONTRACTOR SHALL PROVIDE DEMOLITION AND PATCH AND REPAIR O WALLS, CEILINGS, FLOORS, ETC TO ROUTE RACEWAYS AND EQUIPEMN

![](_page_31_Figure_4.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_1.jpeg)

○SHEET KEYNOTES		GENERAL SHEET NOTES
1 INTERCEPT EXISTING TRAY AND EXTEND.	1	UNLESS NOTED OTHERWISE, ELECTRICAL ITEMS SHOWN IN DARK AND LINES ARE NEW AND THE CONTRACTOR SHALL PROVIDE THEM. ITEMS SHOWN IN SOLID LIGHT LINES ARE TO REMAIN.
	2	CONTRACTOR SHALL UPDATE ALL NEW AND EXISTING PANEL SCHEDU WITH NEW CIRCUIT DATA. SCHEDULE SHALL BE ON A CARD STOCK TY MATERIAL AND TYPED WITH THE UPDATED INFORMATION.
	3	PROVIDE BLANK FACEPLATES AT ALL LOCATIONS WHERE DEVICES WE DEMOLISHED BUT RACEWAY WAS LEFT TO REMAIN AND NO NEW DEVI BEING INSTALLED AT THAT LOCATION.
	4	CONTRACTOR SHALL PROVIDE DEMOLITION AND PATCH AND REPAIR ( WALLS, CEILINGS, FLOORS, ETC TO ROUTE RACEWAYS AND EQUIPEMI

![](_page_32_Figure_26.jpeg)

/OLT	S/PHA	SE/WIF	RE:		PAN	EL SIZ	ZE & TYPE:	MAIN SIZE AND	<b>TYPE</b> :			FED	FRO	<b>/</b> :	CABINET:	LOCATION:		NC	TES:				
120/20	)8V, 3 I	PH 4 W	/IRE		22" \	N x 6"	D, BOLT-ON	250 AMPERE MA	IN LU	GS					SURFACE								
ACCE	SSORI	ES:			PAN	EL DIF	RECTORY, IDENT	IFICATION, GROUI	NDIN	g baf	२					AIC	RATIN	<b>G:</b> 22	,000				
скт		OCP		LO	AD (k	VA)				P	HASE		D				LO	AD (k\	/A)	OCP			скт
NO	AMP	POLE	BKR	LTG	PWR	СО	DESC	RIPTION		4	E	3	C	;	DESCR	RIPTION	со	PWR	LTG	BKR	POLE	AMP	NO
1	20	1	EB	0.0	0.2	0.0	EAST D	OOR ADA	0.2	0.4					OPEN WORKSTA	TIONS FURNITURE	0.0	0.4	0.0	EB	1	20	2
3	20	1	EB	0.0	0.0	0.5	LACTATION/SU	PPLIES OUTLETS			0.5	0.1			OPEN WORKSTA	TIONS FURNITURE	0.0	0.4	0.0	NB	3	20	4
5	20	1	EB	0.0	0.0	0.5	SUPPLIE	S OUTLETS					0.5	0.1	-	-							6
7	20	1	EB	0.0	0.0	1.3	OFFICE/DIRE	CTOR OUTLETS	1.3	0.1					-	-							8
9	20	1	EB	0.0	0.0	1.1	OFFICES	OUTLETS			1.1	0.4			OPEN WORKSTA	TIONS FURNITURE	0.0	0.4	0.0	EB	1	20	10
11	20	1	EB	0.0	0.0	1.1	OFFICES	SOUTLETS					1.1	0.1	OPEN WORKSTA	TIONS FURNITURE	0.0	0.4	0.0	NB	3	20	12
13	20	1	EB	0.0	0.0	0.5	PRINT ME	DIA OUTLETS	0.5	0.1					-	-							14
15	20	1	EB	0.0	0.0	0.5	CO PRINT	MEDIA 4S140			0.5	0.1			-	-							16
17	20	1	EB	0.0	0.0	0.2	PRI	NTER					0.2	0.4	TOUCHDOWN	FLOOR POWER	0.4	0.0	0.0	EB	1	20	18
19	20	1	EB	0.0	0.0	0.2	PRI	NTER	0.2	0.4					CONFERENCE R	M. FLOOR POWER	0.4	0.0	0.0	EB	1	20	20
21	20	1	EB	0.0	0.0	0.5	SOUTH C	O OUTLETS			0.5	0.4			CONFERENCE R	M. FLOOR POWER	0.4	0.0	0.0	EB	1	20	22
23	20	1	EB	0.0	0.0	0.2	PRI	PRINTER					0.2	0.5	SUPPLIES OUTLETS			0.0	0.0	EB	1	20	24
25	20	1	EB	0.0	0.0	1.1	MEDIA REV	IEW OUTLETS	1.1	0.5					LACTATIO	N OUTLETS	0.5	0.0	0.0	EB	1	20	26
27	20	1	EB	0.0	0.0	1.3	BOOTH/TOUCH	IDOWN OUTLETS			1.3	1.3			OFFICE	OUTLETS	1.3	0.0	0.0	EB	1	20	28
29	20	1	EB	0.0	0.0	0.9	VIDEO OFF	ICE OUTLETS					0.9	0.0	SP	ARE	0.0	0.0	0.0		1	20	30
31	20	1	EB	0.0	0.0	0.7	SOUND STU	IDIO OUTLETS	0.7	0.0					SP	ARE	0.0	0.0	0.0		1	20	32
33	20	1	EB	0.0	0.0	1.4	SOUND OFF	ICE OUTLETS			1.4	0.0			SP	ARE	0.0	0.0	0.0		1	20	34
35	20	1	EB	0.0	0.0	0.4	SNACK BA	AR OUTLETS					0.4	0.0	SP	ARE	0.0	0.0	0.0		1	20	36
37	20	1	EB	0.0	0.0	0.9	VIDEO PRODU	CTION OUTLETS	0.9	0.0					SP	ARE	0.0	0.0	0.0		1	20	38
39	20	1	EB	0.0	0.0	0.9	VIDEO PRODU	CTION OUTLETS			0.9	0.0			SP	ARE	0.0	0.0	0.0		1	20	40
41	20	1	EB	0.0	0.0	1.4	CONFRENCE	ROOM OUTLETS					1.4	0.0	SP	ARE	0.0	0.0	0.0		1	20	42
ΓΟΤΑ	LS:						CONNECTE	D kVA PER PHASE	. (	6	Ş	•	e	5		CONNEC	TED T	OTAL	kVA =		21		
							CONNECTED	AMPS PER PHASE	5	4	7	2	4	9	AVERA	GE CONNECTED AM	IPS PE	ER PH	ASE =		58		
NEC [	DIVERS	SIFIED	LOAD	CALC	CULAT	TIONS																	
LI	GHTIN	G & CC	ΝΤΙΝ	JOUS	LOAD	S:		- 100%	6 COI	NEC	TED I	OAD	PLU	S 25%	6	DIVE	RSIFIE	D TO	۲AL k۱	/A = 10	6		
			RE	CEPT	ACLE	S: <b>19.</b> '	1 kVA @ 76% = 1	4.5 kVA - FIRS	T 10k	XA @	2 1009	%, RE	MAIN	DER	@ 50%	AVERAGE		S PER	PHAS	SE = 4	5		
	ALI		ER LO	ADS @	D 100%	6:	1.7 kVA		OR T	OTAL MOT	s inc or c		ED IN		OTHER LOADS WIT	Ή							

![](_page_33_Figure_1.jpeg)

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								(FX) P/	<u> </u>	IF		''N	JH	2	IV								
VOLT	S/PHA	SE/WII	RE:		PAN		ZE & TYPE:	MAIN SIZE AND T	TYPE		<u> </u>	FED	FRO	VI:	CABINET:	LOCATION:		NC	TES:				
480/27	7 V, 3		WIRE		22" V	V x 6"	D, BOLI-ON								SURFACE		DATIN		000				
AUUE	330K				PAN		RECTORT, IDENT	IFICATION, GROUI					_		1	AIC		IG: 22,	000		0.00		<u> </u>
СКТ		OCP			AD (K	VA)				Р	HASE						LO	AD (KV	(A)		OCP		CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCI			4	t	3	(	;	DESCR		CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) \$	SPARE	0.0	0.0	0.0		1	20	2
3	20	1		0.0	0.0	0.0	(EX)	SPARE			0.0	0.0			(EX) S	SPARE	0.0	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.0	(EX)	SPARE					0.0	0.0	(EX) S	SPARE	0.0	0.0	0.0		1	20	6
7	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) 8	SPARE	0.0	0.0	0.0		1	20	8
9	20	1		0.0	0.0	0.0	(EX) :	SPARE			0.0	0.0			(EX) S	SPARE	0.0	0.0	0.0		1	20	10
11	20	1		0.0	0.0	0.0	(EX) :	SPARE					0.0	0.0	(EX) S	SPARE	0.0	0.0	0.0		1	20	12
13	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) S	SPARE	0.0	0.0	0.0		1	20	14
15	20	1		0.0	0.0	0.0	(EX)	SPARE			0.0	0.0			(EX) S	SPARE	0.0	0.0	0.0		1	20	16
17	20	1		0.0	0.0	0.0	(EX)	SPARE					0.0	0.0	(EX) 5	SPARE	0.0	0.0	0.0		1	20	18
19	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) 5	SPARE	0.0	0.0	0.0		1	20	20
21	20	1		0.0	0.0	0.0	(EX)	SPARE			0.0	0.0			(EX) S	SPARE	0.0	0.0	0.0		1	20	22
23	20	1		0.0	0.0	0.0	(EX)	SPARE					0.0	3.1	GENET	ICS LTG	0.0	0.0	3.0	EB	1	20	24
25	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) S	SPARE	0.0	0.0	0.0		1	20	26
27	20	1		0.0	0.0	0.0	(EX)	SPARE			0.0	0.0			(EX) S	SPARE	0.0	0.0	0.0		1	20	28
29	20	1		0.0	0.0	0.0	SP	ARE					0.0	0.0	SP	ARE	0.0	0.0	0.0		1	20	30
31	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					(EX) S	SPARE	0.0	0.0	0.0		1	20	32
33	20	1		0.0	0.0	0.0	SP	ARE			0.0	0.0			SP	ARE	0.0	0.0	0.0		1	20	34
35	20	1		0.0	0.0	0.0	SP	ARE					0.0	0.0	SP	ARE	0.0	0.0	0.0		1	20	36
37	20	1		0.0	0.0	0.0	(EX)	SPARE	0.0	0.0					SP	ARE	0.0	0.0	0.0		1	20	38
39	20	1		0.0	0.0	0.0	SP	ARE			0.0	0.0			SP	ARE	0.0	0.0	0.0		1	20	40
41	20	1		0.0	0.0	0.0	SP	ARE					0.0	0.0	SP	ARE	0.0	0.0	0.0		1	20	42
ΤΟΤΑ	LS:						CONNECTE	D kVA PER PHASE		D	(	)		3		CONNEC	CTED T	OTAL I	<va =<="" td=""><td></td><td>3</td><td></td><td></td></va>		3		
							CONNECTED	AMPS PER PHASE		D	(	)	1	1	AVERA	GE CONNECTED A	MPS PI	ER PH/	ASE =		4		
NEC [	VER	SIFIED	LOAD	CALC	ULAT	IONS																	
LI	GHTIN	G & C(	ontini Re	JOUS ECEPT		S: <b>3.0</b> S:	kVA @ 125% = 3.	<b>8 kVA</b> - 100% - FIRS	6 COI	NNEC XVA @	TED   0 1004	_OAD %, RE	) PLU EMAIN	S 25% IDER	% @ 50%	DIVE	ERSIFIE ie amp	ED TOT S PER	¯AL k\ PHAS	/A = <b>4</b> SE = <b>5</b>			

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI, EB=EXISTING BREAKER

ALL OTHER LOADS @ 100% : 0.0 kVA

VOLT	S/PHAS	SE/WIF	RE:		PAN		ZE & TYPE:	MAIN SIZE AND	TYPE			FED	FRO	<b>N</b> :	CABINET:	LOCATION:		NO	TES:				
480/27	7 V, 3	PH 4 V	VIRE		22" \	W x 6"	D, BOLT-ON	100 AMPERE MA	IN LU	GS					SURFACE								
ACCE	SSORI	ES:			PAN	EL DIF	RECTORY, IDENT	IFICATION, GROU	NDIN	g baf	२					AIC	RATIN	<b>IG:</b> 18,	000				
скт		OCP		LO	AD (k	VA)				Р	HASE	LOA	D				LO	AD (k\	/A)		OCP		скт
NO	AMP	POLE	BKR	LTG	PWR	СО	DESCI	RIPTION		4	E	3	(	2	DESCR	RIPTION	со	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.0	0.0	0.0	(EX)	LOAD	0.0	0.0					(EX)	LOAD	0.0	0.0	0.0		1	20	2
3	20	1		0.0	0.0	0.0	(EX)	LOAD			0.0	0.0			(EX)	LOAD	0.0	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.0	(EX)	LOAD					0.0	0.0	(EX)	LOAD	0.0	0.0	0.0		1	20	6
7	20	3		0.0	0.0	0.0	(EX)	LOAD	0.0	0.0					(EX)	LOAD	0.0	0.0	0.0		3	20	8
9											0.0	0.0			-	-							10
11													0.0	0.0		-							12
13 20 1 NB 0.6 0.0 0.0 LIGHTING						ITING	0.6	0.0					(EX)	LOAD	0.0	0.0	0.0		3	20	14		
15		1		0.0	0.0	0.0	SP	ACE				0.0				-							16
17		1		0.0	0.0	0.0	SP	ACE						0.0	-								18
19		1		0.0	0.0	0.0	SP	ACE							SP	ACE	0.0	0.0	0.0		1		20
21		1		0.0	0.0	0.0	SP	ACE							SP	ACE	0.0	0.0	0.0		1		22
23		1		0.0	0.0	0.0	SP	ACE							SP	ACE	0.0	0.0	0.0		1		24
25		1		0.0	0.0	0.0	SP	ACE							SP	ACE	0.0	0.0	0.0		1		26
27		1		0.0	0.0	0.0	SP	ACE							SP	ACE	0.0	0.0	0.0		1		28
29		1		0.0	0.0	0.0	SP	ACE							SP/	ACE	0.0	0.0	0.0		1		30
ΤΟΤΑ	LS:						CONNECTE	D kVA PER PHASE	-	1	(	)	(	ו		CONNEC	TED T	OTAL I	kVA =		1		
							CONNECTED	AMPS PER PHASE	Ξ :	2	(	)	(	ט	AVERAG	GE CONNECTED AM	IPS PI	ER PH/	ASE =		1		
NEC D	IVERS	SIFIED	LOAD	CALC	CULA	TIONS																	
LIC	GHTING	G & CC	NTIN	JOUS	LOAD	S: 0.6	kVA @ 125% = 0.	<b>7 kVA</b> - 100%	% COI	NEC	TED I	OAD	PLU	S 25%	6	DIVE	RSIFIE	ED TOT	TAL k\	/A = 1			
			RE	CEPT	ACLE	S:		- FIRS	ST 10	VA @	0100	%, RE	MAIN	IDER	@ 50%	AVERAGE	E AMP	S PER	PHAS	SE = 1			
	ALL		ER LO	ADS @	D 1009	6:	0.0 kVA			OTAL	S INC			ALL	OTHER LOADS WIT	Ή							

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI, NB=NEW BREAKER

MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH

LARGEST MOTOR CALCULATED @ 125% PER NEC

### GENERAL SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
- PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C). ○ SHEET KEYNOTES

PROTECT AND MAINTAIN EXISTING GEAR/EQUIPMENT.

### COPPER CONDUCTOR AND CONDUIT SCHEDULE SCHEDULE NUMBER

(E.G.) 5 IG											
SYM	AMP	HH AMPS	CONDUIT SIZE	CONDI QTY	JCTOR (I SIZE	NOTE 1) G	IG/HH	SE	N		
1	20	-	.75	2	12	12	12	8	2		
<u>(2)</u>	20	-	.75	3	12	12	12	8	2,3		
	20	24	./5	4	12	12	12	8	2,3		
<u>(4)</u> (5)	30	-	.75	2	10	10	10	8	2		
6	30	32	.75	4	10	10	10	8	2		
$\overline{7}$	40	-	1	2	8	10	8	6	2		
8	40	-	1	3	8	10	8	6	2		
9	40	44	1	4	8	10	8	6	2		
<u>(10</u>	55	-	1	2	6	10	8	4	2		
	55	-	1	3	6	10	8	4	2		
<u>(12)</u> (13)	55 70	60	1.25	4	6	10 8	8	4	2		
14	70	_	1 25	3	4	8	4	2	2		
15	70	76	1.25	4	4	8	4	2	2		
16	85	-	1.25	2	3	8	3	2	2		
17	85	-	1.25	3	3	8	3	2	2		
(18)	85	92	1.25	4	3	8	3	2	2		
<u>19</u>	95	-	1.25	3	2	8	2	2	2		
<u>20</u>	95	104	1.50	4	2	8	2	2	2		
22	130	116	1.50	4	1	6	2	2	2		
23	150	-	2	3	1/0	6	2	1/0	2		
24	150	136	2	4	1/0	6	2	1/0	2		
25	175	-	2	3	2/0	6	2	2/0	2		
26	175	156	2	4	2/0	6	2	2/0	2		
27	200	-	2	3	3/0	6	2	2/0	2		
<u>୪୪</u> ଜୁନ	200	180	2.50	4 2	3/0	б 1	2	2/0	2		
്ര ദ്രവ	230	- 208	2.50	<u>ح</u>	4/0	4 4	2	2/0	2		
31	255		2.50	3	250	4	1	2/0	2		
32	255	232	2.50	4	250	4	1	2/0	2		
33	310	-	3	3	350	3	1/0	3/0	2		
34	310	280	3	4	350	3	1/0	3/0	2		
<u>35</u>	380	-	3.50	3	500	3	3/0	3/0	2		
<u>30</u> 37	380 ⊿∩∩	544	4 2 ⊑∆ 2	4 2	000 3/0	<u> ১</u> ২	3/U 3/0	3/U 3/0	2		
<u>38</u>	400	- 360	2 EA 2 50	4	3/0	3	3/0	3/0	2		
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2		
40	510	464	2 EA 3	4	250	1	4/0	3/0	2		
<u>41</u>	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4		
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4		
43	760	- 688	2 EA 3.50	3	500	1/0	4/0	3/0	2,4		
45	855		3 EA 3	3	300	2/0	4/0	3/0	2,4		
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4		
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4		
<u>48</u>	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4		
<u>49</u>	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4		
<u>61</u>	1240	1032	3 EA 4 4 EA 3	4	500 350	3/0	4/0	3/0	4		
52	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4		
53	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4		
<u>54</u>	2010	1824	6 EA 4	4	400	250	250	250	4		
<u>55</u>	2660	2408	7 EA 4	4	500	350	350	350	4		
<u>57</u>	4180	3784	0 EA 4	4	500	500	500	500	4		
<u>58</u>	1200	-	5 EA 4	-	-	-	-	-	6		
59	3000	-	10 EA 6	-	-	-	-	-	6		
60	-	-	10 EA 4	-	-	-	-	-	6		
1. () 2. F 3. F 4. () 5. \$	CONDU AS NOT PROVIE CIRCUI TABLE. PROVIE COMPU GROUN GROUN CONDU	CTORS ED IN N WISE N E EQUI T BREA DE #10 N TERS. D (G) C CTORS L SUBS	SHOWN A NOTE 5. AL OTED. IPMENT GF KERS ARE NEUTRALS CONDUCTC	RE SHO L CONE SIZED FOR MI	DUCTORS CONDUC GREATEI ULTIWIRI BE DELE	EACH ( S SHOW) CTORS P R THAN E BRANC TED ON	EDULE NO CONDUIT N ARE TH ER TABLE AMPERE CH CIRCU SERVICE	WITH MC WN UNLI E 250-122 RATING S ITS SERV ENTRAN	DDIFIC ESS WHE SHOV /ING ICE		
	"2N": "CI":	INCLUI PHASE OR LAF TWICE CONDU	DE TWO NE AND NEU RGER. INC THE AMPA JCTOR WH	EUTRAL TRAL CO LUDE A CITY O IERE TH T INTEG	CONDUCT ONDUCT SINGLE F THE SC IE COND GRITY CA	CTORS S ORS WH 200% R/ CHEDULI UCTOR I .BLE; TYI	SIZED AS IERE THE ATED COI ED PHASI S BELOW PE TWO-F	SCHEDU CONDUC NDUCTO E AND NE ( #1/0 IN S	LED I CTOR R TH/ EUTR SIZE.		
	"FG"	RESISTIVE CABLES IN CONDUIT OR PROVIDE FEEDER ENCASEL CONCRETE. FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTO BE SAME SIZE AS THE PHASE CONDUCTORS.									
	"HH":	H": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINE LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.									
	"IG":	INCLUI SCHED CONDU	DE IG (INSU DULED ALC JCTOR.	JLATED NG WIT	/ISOLATE TH THE G	ED GROL ROUND	JND CON OF EQUIF	DUCTOR PMENT G	) ROUI		
	"MC":	PROVII SINGLE		R IN ME TORS II	TAL-CLA N CONDU	D CABLE JIT.					
	"QED".	IS SIZE	DESERVIC		INDING CONTRACTOR						
	I \ .			ᆔᄔᄢᆘ			ᆞᆞᆫ᠐ᆫ᠐				

SINGLE CONDUCTORS IN CONDUIT. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

![](_page_33_Picture_23.jpeg)

TYPICAL UNDER RASED

DROP MOUNTED TO SLAB

1LA1-1

FLOOR 4 GANG DATA

AA 🗲

TYPICAL UNDER

MOUNTED TO SLAB-

RECEPTACAL

RASED FLOOR 4 GANG

NUMBER LABEL

![](_page_34_Figure_1.jpeg)

DIV. 26 TO CUT RAISED FLOOR FOR FLOOR BOX COVER. COORDINATE WITH

> -TYPICAL FLOOR BOX COVER

> > TYPICAL TOP OF WALKER DUCT FLOOR

ARCHITECT FOR CARPET INSERT

![](_page_34_Figure_2.jpeg)

![](_page_34_Figure_3.jpeg)

![](_page_34_Figure_4.jpeg)

![](_page_35_Figure_0.jpeg)

TYP CEILING

-LOCATE DRIVER ABOVE ACCESSIBLE CEILING

![](_page_35_Figure_2.jpeg)

	-	
○ SHEET KEYNOTES		GENERAL SHEET NOTES
1 CONFIRM MOUNTING TYPE WITH ARCHITECT PRIOR TO ROUGH-IN.	1	UNLESS NOTED OTHERWISE, ELECTRICAL ITEMS SHOWN IN DARK AND LINES ARE NEW AND THE CONTRACTOR SHALL PROVIDE THEM. ITEMS SHOWN IN SOLID LIGHT LINES ARE TO REMAIN.
	2	COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTO ON THIS LEVEL WITH MECHANICAL EQUIPMENT, DUCT, PIPE, PLUMBING PRIOR TO ROUGH-IN.
	3	CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT I TYPED ON CARD STOCK TYPE MATERIAL.
	4	ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN GRID CEILINGS SH INSTALLED CENTERED IN CEILING TILES AND/OR ALIGNED WITH OTHER FIXTURES WITHIN THE SAME PLANE AND CEILING SPACE.
	5	LIGHTING CONTROL DIMMING AND ROOM CONTROLLER SHALL BE LOC/ AS FOLLOWS WHERE POSSIBLE UNLESS NOTED OTHERWISE. LOCATE / ACCESSIBLE CEILING NEAR THE DOOR THAT CONTROLLER SERVES BU OF THE PATH OF EGRESS, REFER TO DETAIL FOR ADDITIONAL INFORM.
	6	PROVIDE UNSWITCHED HOT CIRCUIT TO ALL LIGHT FIXTURES WITH EMERGENCY TRANSFERS TO ALLOW FOR POWER LOSS SENSING.
	7	REFER TO EE701 FOR TYPICAL MOUNTING AND ALIGNMENT OF ELECTR DEVICES.
	8	CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL MOUNTING HARD ALONG WITH REQUIRED SEISMIC BRACING FOR EACH FIXTURE.
	9	ALL PATHWAYS FOR LOW VOLTAGE CABLING NOT REQUIRED TO BE IN CONDUITS SHALL BE ROUTED IN J-HOOK PATHWAYS. CONCEAL ALL PATHWAYS ABOVE ACCESSIBLE CEILING SPACES. DO NOT RUN CABLES EXPOSED AREAS. WHERE CONCEALMENT IS NOT POSSIBLE IN EXPOSE AREAS, CONTRACTOR SHALL PROVIDE CONDUIT TO ROUTE CABLING W VISIBLE.

![](_page_35_Figure_4.jpeg)

NORTH

![](_page_36_Figure_0.jpeg)

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# LIGHTING/SPACE CONTROL TYPE SCHEDULE

1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO

GENERAL NOTES 5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.

CONTROL.

6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTA PROGRAMMING THE REMAINING CONTROLS.

WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR

TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP- "ON/RAISE" BOTTOM-"OFF/ LOWER"	-	-	-	-	-	-	-	-	
15	RELAY	-	-	FUNCTION:	-	-	-	-	-	-	-	-	
	OCCUPANCY			TOP-ON, HOLD TOP-RAISE LABEL ID: TOP- "ON/RAISE" BOTTOM-"OFF/ LOWER"									
15	RELAY CLOSED ON OCCUPANCY	-		TOGGLE PRESS TOP-ON, PRESS BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESE T SCENE #01 ZONE "a" 100% ZONE "b" 100% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESE T SCENE #02 ZONE "a" 100% ZONE "b" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS- SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS- SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	
15	RELAY CLOSED ON OCCUPANCY	-		FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOW ER LABEL ID: TOP- "ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESE T SCENE #01 ZONE "a" 100% ZONE "b" 100% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESE T SCENE #02 ZONE "a" 100% ZONE "b" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS-SELEC T ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELEC T ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	
15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOW ER LABEL ID: TOP- "ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESE T SCENE #01 ZONE "b" 100% ZONE "c" 100% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESE T SCENE #02 ZONE "b" 50% ZONE "c" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS-SELEC T ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	FUNCTION: PRESS-SELEC T ZONE "c" FOR DIMMING LABEL ID: "ZONE c"	-	-	-	-	

AIN OWNERS APPROVAL PRIOR TO	

### 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED

![](_page_36_Figure_11.jpeg)

![](_page_37_Figure_1.jpeg)

![](_page_37_Figure_2.jpeg)

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# 2 TYPICAL EMERGENCY LIGHTING TRANSFER DEVICE DETAIL

*BASIS OF DESIGN IS WATTSTOPPER **CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE.

![](_page_37_Figure_6.jpeg)

![](_page_37_Figure_7.jpeg)

### INTERIOR LIGHTING FIXTURE SCHEDULE GENERAL NOTES

- SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
- 2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
- 3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
- 4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- 5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
- 6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

						D	RIVER		-
		DELIVERED	INDIRECT	COLOR					
DESCRIPTION TION: 4" DOWNLIGHT G: RECESSED, CEILING CBA 5° BEAM, CLEAR REFLECTOR, MATTE DIFFUSE	SIZE (NOMINAL) LENGTH: 12" WIDTH: 9" HEIGHT: 8" DIAMETER: 4"	1,500	LUMENS	4000K	80	LED (0-10V DIMMING) 1%	<b>VOLTAGE</b> 120/277V	15	GOTHAM (ICO4) PORTFOLIO (LD4D) WILLIAMS (4DR-TL)
TION: 6" DOWNLIGHT G: RECESSED, CEILING CBA 5° BEAM, CLEAR REFLECTOR, MATTE DIFFUSE GENCY TRANSFER	LENGTH: 16" WIDTH: 11" HEIGHT: 9" DIAMETER: 6"	2,000		4000K	80	LED (0-10V DIMMING) 1%	120/277V	27	GOTHAM (ICO6) PORTFOLIO (LD6D) WILLIAMS (6DR-TL)
TION: 6" DOWNLIGHT G: RECESSED, CEILING IEDIUM, EZB DRIVER	LENGTH: 12" WIDTH: 9" HEIGHT: 8" DIAMETER: 4"	3,000		4000K	80	ELOD 0-10V LOGARITHMIC DIMMING <1%	120/277V	30	GOTHAM (EVO6) PORTFOLIO (LD6D) WILLIAMS (6DR-TL)
TION: EXIT SIGN, EDGE LIT, SINGLE SIDED G: CEILING CBA ERY	LENGTH: 11" WIDTH: 3" HEIGHT: 10"			GREEN		LED	120/277V	5	ISOLITE (UEL) SURE-LITES (SCX) EXITRONIX (S900U)
TION: EXIT SIGN, EDGE LIT, DOUBLE SIDED G: CEILING CBA ERY	LENGTH: 11" WIDTH: 3" HEIGHT: 10"			GREEN		LED	120/277V	5	ISOLITE (UEL) SURE-LITES (SCX) EXITRONIX (S900UM)
TON: EDGE LIT, SINGLE SIDED G: WALL CBA USER/ARCHITECT TO CHOOSE CUSTOM WORDING ON SIGN	LENGTH: 13" WIDTH: 3" HEIGHT: 10"			SCBA		LED	120/277V	5	ISOLITE (TLCG2) EVENLITE (SOVCGII) EXITRONIX (402EX)
ION: CYLINDRICAL PENDANT G: PENDANT CBA	LENGTH: 72" DIAMETER: 3.5"	3,144		4000K	90	LED (0-10V DIMMING) 1%	120/277V	36	CORONET (FLRD) LUMINII (SCT-JOIN-HR) AYO (OPT)
TON: CYLINDRICAL PENDANT G: PENDANT CBA	LENGTH: 120" DIAMETER: 3.5"	5,240		4000K	90	LED (0-10V DIMMING) 1%	120/277V	60	CORONET (FLRD) LUMINII (SCT-JOIN-HR) AYO (OPT)
TON: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA	LENGTH: 48" WIDTH: 3" HEIGHT: 4"	2,400		4000K	80	LED (0-10V DIMMING) 1%	120/277V	26	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
ION: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA GENCY TRANSFER	LENGTH: 48" WIDTH: 3" HEIGHT: 4"	2,400		4000K	80	LED (0-10V DIMMING) 1%	120/277V	26	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
ION: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA	LENGTH: 72" WIDTH: 3" HEIGHT: 4"	3,600		4000K	80	LED (0-10V DIMMING) 1%	120/277V	40	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
TON: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA GENCY TRANSFER	LENGTH: 72" WIDTH: 3" HEIGHT: 4"	3,600		4000K	80	LED (0-10V DIMMING) 1%	120/277V	40	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
TON: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA	LENGTH: 96" WIDTH: 3" HEIGHT: 4"	4,800		4000K	80	LED (0-10V DIMMING) 1%	120/277V	53	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
TON: FLUSH LENS LINEAR G: GRID CEILING, RECESSED CBA GENCY TRANSFER	LENGTH: 96" WIDTH: 3" HEIGHT: 4"	4,800		4000K	80	LED (0-10V DIMMING) 1%	120/277V	53	MARK (SL2L) NEORAY (S122DR) BETACALCO (BLKR)
TON: FLUSH LENS LINEAR G: RECESSED CBA	LENGTH: 120" WIDTH: 2" HEIGHT: 4"	4,630		4000K	80	LED (0-10V DIMMING) 1%	120/277V	50	PAL (MLR2) NEORAY (S122DR) BETACALCO (BLKR)
ION: INDOOR WHITE LIGHT TAPE G: MOUNTING CLIP WITH WHITE ROUND LENS CBA	LENGTH: 252" WIDTH: .5"	2,100		4000K	80	LED (0-10V DIMMING)	120/277V	96	KELVIX (UN1-WL) QT (SW-HE24/1.5) OMNILIGHT (GENESIS 2.0)
TION: VOLUMETRIC TROFFER G: GRID CEILING CBA	LENGTH: 48" WIDTH: 12" HEIGHT: 4"	4,000		4000K	80	LED (0-10V DIMMING) 1%	120/277V	39	LITHONIA (ALL4) CORELITE (D3X) DAY-BRITE (1CAX)
TION: VOLUMETRIC TROFFER G: GRID CEILING, RECESSED CBA	LENGTH: 24" WIDTH: 24" HEIGHT: 4"	2,000		4000K	80	LED (0-10V DIMMING) 1%	120/277V	17	LITHONIA (2ALL2) CORELITE (D3X) DAY-BRITE(CAX)
ION: VOLUMETRIC TROFFER G: GRID CEILING, RECESSED CBA GENCY TRANSFER	LENGTH: 24" WIDTH: 24" HEIGHT: 4"	2,000		4000K	80	LED (0-10V DIMMING) 1%	120/277V	17	LITHONIA (2ALL2) CORELITE (D3X) DAY-BRITE(CAX)
ION: VOLUMETRIC TROFFER G: GRID CEILING, RECESSED CBA	LENGTH: 48" WIDTH: 24" HEIGHT: 4"	4,000		4000K	80	LED (0-10V DIMMING) 1%	120/277V	32	LITHONIA (2ALL4) CORELITE (D3X) DAY-BRITE(CAX)
ION: 14" CIRCLE 3: WALL 3BA	HEIGHT: 3" DIAMETER: 14"	1,490		4000K	90	LED (0-10V DIMMING) 1%	120/277V	16	BROWNLEE (PENNY-ID) PRUDENTIAL LTG (GAZE-RDS) LIGHTNET (1B)

DIAMETER LENGTH -WIDTH

![](_page_37_Figure_18.jpeg)

![](_page_38_Figure_0.jpeg)

![](_page_38_Figure_1.jpeg)

![](_page_38_Figure_2.jpeg)

○SHEET KEYNOTES	GENERAL SHEET NOTES
	1 FIRE ALARM NOTIFICATION DEVICES SHALL BE ADJUSTED AS REQUIRED PROVIDE PROPER COVERAGE AND SOUND LEVELS.
	2 ALL FIRE ALARM DEVICES SHALL BE MOUNTED SUCH THAT THEY ARE VIS FROM THE GROUND AND EASILY ACCESSIBLE FOR MAINTENANCE.
	3 TYPICAL: CORRIDOR SMOKE DETECTOR SPACING SHALL NOT EXCEED 30 CENTER.
	4 ALL PATHWAYS FOR LOW VOLTAGE CABLING NOT REQUIRED TO BE IN CO SHALL BE ROUTED IN J-HOOK PATHWAYS. CONCEAL ALL PATHWAYS ABO ACCESSIBLE CEILING SPACES. DO NOT RUN CABLES IN EXPOSED AREAS CONCEALMENT IS NOT POSSIBLE IN EXPOSED AREAS, CONTRACTOR SH PROVIDE CONDUIT TO ROUTE CABLING WHERE VISIBLE. ALL CONDUIT SH PAINED TO MATCH CEILING AND PROVIDED WITH PROTECTIVE BUSHINGS

NORTH

![](_page_38_Figure_5.jpeg)

![](_page_39_Figure_0.jpeg)

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![](_page_39_Picture_2.jpeg)

![](_page_39_Figure_3.jpeg)