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March 11, 2024

TO	:	All Bidders
FROM	:	Bob Lavey
PROJECT	:	Nogales High School New Building and Aquatic Center Project W2110000AR.41
DSA	:	03-122782 / File 19-92
SUBJECT	:	Addendum 3

The following changes, omissions, and/or additions to the Technical Specifications and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Technical Specifications, and this Addendum, this Addendum shall govern.

3. PROJECT MANUAL

- 3.1 Addendum 1 SECTION 08 80 00 GLAZING
 - A. Item 2.7: Remove this item in its entirety and replace with the following
 - "2.7 SPANDREL GLAZING
 - A. Provide Sealed Insulating Glass Units with the following exception per Item B.
 - B. Interior Pane: Laminated safety glass with grey translucent plastic interlayer."
- 3.2 Addendum 2 DRAWING TB2.1- TECHNOLOGY BLDG B POOL FLR PLAN
 - A. A symbol of letters AP with a triangle represents : EXTERIOR WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (2)CAT 6/6A CABLES ROUTED TO NEAREST IDF. PROVIDE WEATHERPROOF BOX AND CONDUIT AS NOTED FOR SURFACE MOUNTED OUTLETS. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL/ COLUMN MOUNTED DEVICES SHALL BE INSTALLED AT 10' A.F.F.

- 3.3 Addendum 2 DRAWING A5.4 OVERALL BUILDING SECTIONS
 - A. Item 2.15: Delete this item in its entirety. Drawing A5.4 Delta 1 has not changed and to remain.
- 3.4 SECTION 08 41 13 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
 - A. Item 1.3.H: Revise the U-value to 0.36 or better.
 - B. Item 1.3.I: Revise the SHGC value to 0.25 or better.
 - C. Item 1.3.J: Add the following:

"Water Resistance: No water leakage when measured in accordance with ASTM E331 with a static test pressure of 8 PSF(383 Pa)."

D. Item 2.3.A: Replace this item entirely with the following:

"Frames: 2 inch x 4-1/2 inch profile, flush glazing stop. Arcadia AFG-451T or equal.

- 3.5 SECTION 08 51 13 ALUMINUM WINDOWS
 - A. Delete this section in its entirety.
- 3.6 SECTION 28 31 00 FIRE ALARM SYSTEM
 - A. Item 2.3.B.1: Replace this item in its entirety with the following:

"The FACP shall include one (1) Signaling Line Circuit (SLC) that will power, supervise, monitor, and control a maximum of 159 analog addressable devices which may be made up of any combination of sensors and modules. Sub-points allow for more than 159 analog addressable software points. The SLC shall have the capability to be wired in an NFPA Style 4, 6, or 7 (Class A, B or X) configuration."

DRAWINGS

Architectural

- 3.7 DRAWING A2.2 FIRST FLOOR PLAN AREA A
 - A. Floor Plan Notes: Add the following:
 - "11. When framed wall terminates or built alongside/behind a storefront window, finish with a painted drywall.
 - 12. When casework terminates or built alongside/behind a storefront window, finish the abutting surface with plastic laminate to match.
 - B. Apply these changes to all Floor Plan Notes in applicable sheets.

- 3.8 DRAWING A2.3 FIRST FLOOR PLAN AREA B
 - A. Remove casework from scope of work in northeast corner of Room A140 to make room for electrical panels per the attached Drawing A2.3.
- 3.9 DRAWING A5.5 ENLARGED WALL SECTIONS
 - A. Replace this drawing in its entirety with the attached Drawing A5.5.
 - B. Detail 18: Revise detail notes and add end condition.
 - C. Detail 20: Revise low wall top condition and wall to floor transition.

<u>Structural</u>

- 3.10 DRAWING S0.11 COREBRACE BRB DETAILS
 - A. Detail 13: Added note for protection zones per the attached Drawing \$0.11.
- 3.11 DRAWING SO.12 COREBRACE BRB SCHEDULE
 - A. Revised Corebrace Schedules per the attached Drawing \$0.12.
- 3.12 DRAWING S2.2 FOOR & SECOND FLOOR FRAMING PLAN AREA B
 - A. Replace this drawing in its entirety with the attached Drawing \$2.2.
 - B. Revise MDF-2 deck depressions at the northern balcony and the upper landing of the southern exterior stairway.

<u>Mechanical</u>

- 3.13 DRAWING MA2.1 MECHANICAL FIRST FLOOR PLAN AREA A
 - A. Replace this drawing in its entirety with the attached Drawing MA2.1.
 - B. Revised airflows at various outlets.
 - C. Revised duct sizes in Athletic Trainer Room A127.
 - D. Note 11 added regarding adding lockable covers for some thermostats.
 - E. Note 12 added for dryer exhaust venting.
- 3.14 DRAWING MB3.1 MECHANICAL FIRST FLOOR PLAN AREA B
 - A. Replace this drawing in its entirety with the attached Drawing MB3.1.
 - B. Revised airflows at various outlets.

- C. Note 9 added regarding adding lockable covers for some thermostats.
- D. Note 8 added for dryer exhaust venting.
- 3.15 DRAWING MB3.3 MECHANICAL SECOND FLOOR PLAN AREA B
 - A. Replace this drawing in its entirety with the attached Drawing MB3.3.
 - B. Revised duct routing in Storage Room A202.
- 3.16 DRAWING M5.1 MECHANICAL SCHEDULES
 - A. Replace this drawing in its entirety with the attached Drawing M5.1.
 - B. Revised Note 7 of packaged rooftop heat pump unit schedule.
 - C. Added Note 16 to packaged rooftop heat pump unit schedule.
 - D. Revised Note 14 on split system heat pump schedule.
 - E. Revised remarks column on split system heat pump schedule for indoor fan coils and outdoor heat pumps.
- 3.17 DRAWING M5.2 MECHANICAL SCHEDULES
 - A. Replace this drawing in its entirety with the attached Drawing M5.2.
 - B. Revised Note 15 on split system AC and CU Schedule.
 - C. Revised Note 5 on fan schedule.
- 3.18 DRAWING M6.1 MECHANICAL DETAILS
 - A. Replace this drawing in its entirety with the attached Drawing M6.1.
 - B. Added note on power exhaust and economizer Detail 18 on M6.1.
 - C. Revised Detail 3 on M6.1.

Plumbing

- 3.19 DRAWINGS P1.1 PLUMBING SITE PLAN
 - A. Replace this drawing in its entirety with the attached Drawing P1.1.
 - B. Gas isolation valves added to each branch in the construction zone.

- 3.20 DRAWING P2.2.2 PLUMBING 1ST FLR PLN AREA A WATER AND GAS
 - A. Replace this drawing in its entirety with the attached Drawing P2.2.2.
 - B. SH-4 changed to SH-1A in Boys Restroom A124.
- 3.21 DRAWING P2.3.1 PLUMBING 1ST FLR PLN AREA B WASTE AND VENT
 - A. Added keynote 19 per the attached Drawing P2.3.1.
 - B. Add 1" vent from gas pressure regulator up through roof. Route to roof similar to water heater vent. Terminate vent through roof similar to Detial 6/P6.2. Locate minimum of 10' away from outside air intake or 3'-0" above.
- 3.22 DRAWING P2.3.2 PLUMBING 1ST FLR PLN AREA B WASTE AND VENT
 - A. Replace this drawing in its entirety with the attached Drawing P2.3.2.
 - B. Gas line increased in size from 1" to 1-1/2", followed by an increase from 1/2" to 3/4" for the line going to the dryers.
 - C. SH-4 changed to SH-1A in Girls Restroom A143.
- 3.23 DRAWING P3.1 ENLARGED PLUMBING PLANS
 - A. Replace this drawing in its entirety with the attached Drawing P3.1.
 - B. Add 3/4" condensate drain line from RT-14 to sink. Route 3/4" condensate drain down in wall, elbow out and extend to the tailpiece of the sink.
 - C. Add 1" vent from gas pressure regulator up through roof. Terminate vent through roof similar to water heater flue routing. Terminate similar to Detail 6/P6.2. Locate minimum of 10' away from outside air intake or 3'-0" above.
- 3.24 DRAWING P5.1 PLUMBING SCHEDULES
 - A. Replace this drawing in its entirety with the attached Drawing P5.1.
 - B. Revise Plumbing Fixture Schedule.

<u>Electrical</u>

- 3.25 DRAWING E1.1 ELECTRICAL SITE PLN
 - A. Replace this drawing in its entirety with the attached Drawing E1.1.
 - B. Revise to label relocated switchboard on demo plan per the attached Drawing E1.1.
 - C. Added pullbox sizing per the attached Drawing E1.1.

- D. Revised demo Keynote 2 per the attached Drawing E1.1.
- 3.26 DRAWING EA2.2 ELECTRICAL -1ST FLR PLN -AREA B
 - A. Replace this drawing in its entirety with the attached Drawing EA2.2.
 - B. Revise to show future Musco equipment in Team Storage Room per the attached Drawing EA2.2.
 - C. Added receptacles to the Storage Rooms per the attached Drawing EA2.2.
 - D. Added conduit and wire sizing to Storage Room per the attached Drawing EA2.2.
 - E. Added note for wall mounted pullboxes per the attached Drawing EA2.2.
 - F. Added notes for spare conduits to future Musco poles per the attached Drawing EA2.2.
 - G. Added pullbox sizing per the attached Drawing EA2.2.
- 3.27 DRAWING EA2.3 ELECTRICAL -2ND FLR PLN
 - A. Replace this drawing in its entirety with the attached Drawing EA2.3.
 - B. Revise to show circuit for elevator disconnect per the attached Drawing EA2.3.
- 3.28 DRAWING EA4.2 ELECTRICAL -ROOF PLAN -AREA B
 - A. Replace this drawing in its entirety with the attached Drawing EA4.2.
 - B. Add roof receptacle and callout per the attached Drawing EA4.2.
- 3.29 DRAWING EA4.3 ELECTRICAL -2ND FLOOR ROOF PLAN
 - A. Replace this drawing in its entirety with the attached Drawing EA4.3.
 - B. Add roof receptacle and Keynote 2 per the attached Drawing EA4.3.
 - C. Add detail for roof receptacle mounting per the attached Drawing EA4.3.
- 3.30 DRAWING EB2.1 ELECTRICAL POOL FLR PLN
 - A. Added notes for spare conduits to future Musco poles per the attached Drawing EB2.1.
 - B. Added pullbox sizing per the attached Drawing EB2.1.

- 3.31 DRAWING E5.1 ELECTRICAL SINGLE LINE DIAGRAM
 - A. Replace this drawing in its entirety with the attached Drawing E5.1.
 - B. Revise Keynote 6 per the attached Drawing E5.1.
- 3.32 DRAWING E5.2 ELECTRICAL PANEL SCHEDULES
 - A. Add circuits for convenience receptacles from panel L1B per the attached Drawing E5.2.

<u>Fire Alarm</u>

- 3.33 DRAWING FA0.0 FIRE ALARM LEGENDS AND GENERAL NOTES
 - A. Changed wire type from stranded to twisted per the attached Drawing FA0.0.
- 3.34 DRAWING FA1.1 FIRE ALARM SITE PLAN
 - A. Added conduit routing to pull boxes per the attached Drawing FA1.1.
- 3.35 DRAWING FA5.1 FIRE ALARM PANEL SCHEDULES & CALCS
 - A. Updated riser diagram and panel calculations per the attached Drawing FA5.1.
- 3.36 DRAWING FA6.1 FIRE ALARM DETAILS
 - A. Added seismic Detail 10 per the attached Drawing FA6.1.
- 3.37 DRAWING FAA2.2 FIRE ALARM 1ST FLR PLN AREA B
 - A. Added conduit path to Administration Building and existing PIV valves per the attached Drawing FAA2.2.

Technology

- 3.38 DRAWING T1.1 TECHNOLOGY SITE PLAN
 - A. Replace this drawing in its entirety with the attached Drawing T1.1.
 - B. Revise point of connections between new conduits and existing per the attached Drawing T1.1.
 - C. Add information for the existing MDF, existing conduits and junction boxes locations per the attached Drawing T1.1.

Swimming Pool

- 3.39 DRAWING SP.3 SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN
 - A. Remove the non-illuminated facility identification panel with artwork from the scope of work.
 - B. Please provide (2) DC-1500 shot clocks for water polo.

END OF ADDENDUM 3

Submitted by,





Managing Partner, Architect

RL:PF:hb\P4W2110000ARx3-add

Attachments: A2.3, A5.5, S0.11, S0.12, S2.2, MA2.1, MB3.1, MB3.3, M5.1, M5.2, M6.1, P1.1, P2.2.2, P2.3.1, P2.3.2, P3.1, P5.1, E1.1, EA2.2, EA2.3, EA4.2, EA4.3, EB2.1, E5.1, E5.2, E5.3, FA0.0, FA1.1, FA5.1, FA6.1, FAA2.2, T1.1,









SCALE: NTS





NOT USED SCALE: NTS 12



COREBRACE BRACE AND GUSSET CONNECTION DETAILS



		Casir												-																													<u> </u>	
_											Casing	1																														F _{ys}	sc	CB
	CB-ID	Section	Line	Grids	Lvls	Mark	Qty	Lb	L _c	Shape	Profile	H _c W	t _c	WL	W 1	L _{SL}	xL	L _{Lg}	а	с	LLc	tL	D _{wLg}	D _{wL}	L _{WL-i}	n _i	no	g	s	е	b _r	Lysc	L" _{ysc}	W _{sc}	t _{sc}	A _{sc}	K _{eff}	κ _r	Pysc	β	ω	Min	Max	Wt
	#	#		#	#	#	#	in	in	t or p	FIOINE	in in	in	in	in	in	in	in	in	in	in	in	#	#	in	#	#	in	in	in	in	in	in	in	in	in ²	K/in	(K _{eff} /K _{Lwp})	kip			ksi	ksi	lb
	B-2.00	D	9.9	C-D	2	1901	1	255 14/16	222.81	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	206.05	206.05	4.000	0.50	2.00	259	1.26	76	1.11	1.33	38	46	1735
	B-2.00	D	9.9	D-E	2	1902	1	268 12/16	235.75	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	218.95	218.95	4.000	0.50	2.00	244	1.25	76	1.11	1.33	38	46	1828
	B-2.00	D	9.9	C-D	1	1903	1	232 6/16	199.31	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	182.56	182.56	4.000	0.50	2.00	287	1.33	76	1.12	1.35	38	46	1565
	B-2.00	D	9.9	D-E	1	1904	1	247 2/16	214.06	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	197.29	197.29	4.000	0.50	2.00	268	1.31	76	1.12	1.34	38	46	1672
	B-2.00	С	7.1	D-E	2	1905	1	268 12/16	235.75	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	218.95	218.95	4.000	0.50	2.00	244	1.25	76	1.11	1.33	38	46	1828
	B-2.00	С	7.1	C-D	2	1901	1	255 14/16	222.81	t		8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	206.05	206.05	4.000	0.50	2.00	259	1.26	76	1.11	1.33	38	46	1735
	B-2.00	C 7.1 C-D 2 1901 1 255 14/16 222.81 t □ 8 C 7.1 D-E 1 1906 1 246 8/16 213.44 t □ 8 C 7.1 C-D 1 1907 1 231 13/16 198 75 t □ 8										8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	196.69	196.69	4.000	0.50	2.00	268	1.32	76	1.12	1.34	38	46	1667
	B-2.00	C 7.1 D-E 1 1906 1 246 8/16 213.44 t □ 8 C 7.1 C-D 1 1907 1 231 13/16 198.75 t □ 8										8 8	0.2500	7.13	3.61	22.27	2.63	9.27	4.00	3.00	8.63	0.50	3.00	3.00	2.63	2	0	0.00	5.00	1.63	0.91	181.99	181.99	4.000	0.50	2.00	288	1.34	76	1.12	1.35	38	46	1561
Ta	B-2.00 C 7.1 C-D 1 1907 1 231 13/16 198.75 t □ 8 8 0.25 Ble of Symbols x _L = Length from start of lug transition to end of												end of lug	transitio	ı																											:	Sum:	13,591 lbs
	L _b =	Length of C	CB tip to ti	ip				L	g = Length	of Lap on	Gusset									ni	= Numbe	er of bo	lts in inn	er row								L" _{vsc}	= Yield len	gth of co	re - Yield	ing Portio	on Only					1	Max:	1,828 lbs
	L _c :	Length of d	casing	-					a = Gap be	tween cor	e and gu	sset								no	= Numb	er of bo	lts in out	er row								W _{sc}	= Width of	core at y	/ield secti	ion	-							
	Casing =	Size & type	e of casing	9				c	c = Core ex	ctension le	ength out	of casing								g	= Gauge	e betwe	en outer	& inner	bolt rows	s						t _{sc}	= Thicknes	ss of core	9				β	= Compr	ression s	regth ad	Jjustmer	nt factor
	Type =	t = tube (so	uare/rect) and p = pipe	(round)			L	c = Length	of Lug wit	thin Casi	na (incl. x	L)							s	= Bolt S	pacing										Asc	= Cross se	ectional a	rea of co	re at vield	d section		ω	= Strain	hardenin	a adjustr	ment fac	ctor
	W1 =	\mathbf{W}_{L} = Width of Lug \mathbf{t}_{L} = Thickness of lug									,							е	= Typica	al bolt ed	dae dista	ance								Koff	= Effective	Stiffness	s of BRB	from WP	to WP					5				
	₩1 =	W_1 = Width at Reduced Section of Lug D_{wLg} = Size of weld at lug to core at bolt patter									attern # 1/1	6ths						b,	= Distan	ice to st	tart of rad	dius fror	m first ou	termost	bolt.					K _f	= Axial Sti	ffness Ad	liustment	Factor										
		$L_{sL} = Total Length of Lug minus Transition (xL) 3 DwL = Size of weld at lug to core beyond bo$									olt pattern	# 1/16th	5						(If nea	ative it	is toward	ds end o	of CB from	m bolt.)						Pyer	= Yield for	ce of CB	(A _{sc} x F _u	min)										
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B2	J22-11-16 - Nogales HS Addition									oriug							Lysc	= Lengtr	n or yield	aing core	e w/out a	allowance	e for Cht	ir Sunen	ler				ysc	- Specifie	u yielu str	ess rang	e or core	plate										
	aded Cell	s Have Cha	inged Sir	10e 6/26/2023		\sim																																						

																																	BOTT	OM OF B	RACE CO	NNECTIO	N			TOP OF	BRACE C	ONNECTIO	N				R	equired Stiff	or Contin	uity Plate					
												Hole	Pattern In	nformatio	n		Gusset			Lug						Bolt Siz	e, Length	& Quantiti	ies					Bm/Co	l Flange B	Bot				Bn	n/Col Flan	је Тор				Bottom	End of B	race		Тор	End of Br	ace	C	.B T	fotal
CB-ID	Section	Line	Grids	Lvls	Mark	Qty W _{WP}	Hw	, ,	bh	L _{wp-h}	n _i n _o	0	s	gi	g,	d _{hg}	t _a F _{y,}	_{går} W _L	tL	t _s	LLg	W _{L-Alt}	d _b G	- Ľ	L	a 2.75	5" 3.00"	3.25"	3.50"	3.75"	4.00" 4.25	5" W _b	L _{wb}	W _c	Lwc	Lgb	Lgc	W _b	L _{wb}	Wc	Lwc	Ext	Lgb	Lgc	Be	am	Col	Gusset Edg	es	Beam	Col	Gusset E	dges V	/t C	B Wt
#	#		#	#	#	# in	in		in	in	# #	in	in	in	in	in	in k	si in	in	in	in	in	in in	in	ir	n Qt	Qty	Qty	Qty	Qty	Qty Qty	y in	in	in	in	in	in	in	in	in	in	?	in	in	Main	at z (x2)	Main	Thick Wi	dth Mair	n atz (x2)	Main	Thick \	Width I	٥	lb
CB-2.00	D	9.9	C-D	2	1901	1 192	207 8	16 250	9/16	17 9/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	9	5/1	6 5	15	12	5/16	7	5/16	5	no	13	12	-	-	-			-	-	-	- 17	35 1	1735
CB-2.00	D	9.9	D-E	2	1902	1 213	207 8	/16 263	8/16	18 8/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -		-	8	-		1/4	10	5/10	6 5	17	12	1/4	8	1/4	5	no	14	12	-		-			-	-	-	- 18	28 1	1828
CB-2.00	D	9.9	C-D	1	1903	1 192	188 4	/16 227	1/16	17 2/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	7	1/4	14	16	21	1/4	15	1/4	10	yes	21	16	-	-	-			-	-	-	- 15	65 1	1565
CB-2.00	D	9.9	D-E	1	1904	1 213	188 4	/16 241	13/16	16 4/16	2 0	1 10/16	5.00	1 15/16 0	0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	7	1/4	13	16	20	1/4	16	1/4	10	yes	23	16	-	-	-		· -	-	-	-	- 16	/72 1	1672
CB-2.00	С	7.1	D-E	2	1905	1 213	208	263	8/16	18 8/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	10	5/10	6 5	17	12	1/4	8	1/4	5	no	15	13		-	-		-	-	-	-	- 18	28 1	1828
CB-2.00	С	7.1	C-D	2	1901	1 192	208	250	9/16	17 9/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	9	5/10	6 5	15	12	1/4	7	5/16	5	no	13	13		-	-			-	-	-	- 17	35 1	1735
CB-2.00	С	7.1	D-E	1	1906	1 213	188 12	2/16 241	3/16	17 3/16	2 0	1 10/16	5.00	1 15/16 0	0	1 7/16	5/8 5	0 71/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	7	1/4	13	16	20	1/4	16	1/4	10	yes	23	16	-	-	-		-	-	-	-	- 16	67 1	1667
CB-2.00	C	7.1	C-D	1	1907	1 192	188 12	2/16 226	8/16	18 2/16	2 0	1 10/16	5.00	1 15/16 (0	1 7/16	5/8 5	0 7 1/8	8 1/2	1/2	9 4/16	7/16	1 1/8 1.6	9 3.36	5 31	1/2 -	-	-	8	-		1/4	7	1/4	14	16	21	1/4	15	1/4	10	yes	20	16	-	-	-			-	-	-	- 15	61 1	1561
																										0	0	0	64	0	0 0																Note: May I	Dbl Count Stille	10/8.					13,5	591 lbs
Table of S	ymbols																																														Indicated T	hickness Each S	Side of Colun	nn. Weld Stiffer	ners to Flang	0		6.8	80 Ton
W _w	= Width of f	ame bay w	orkpoint (W	P) to WP				e = Ty	pical bolt	edge distan	ice				tra	= Thicknes:	s of repar	d on gusst	t	LLo	= Expect	ed Lap of	f Lug on Gu	usset (as C	heck Only)						1	W _b = Mini	imum size	of gusset	weld to be	am	L,	ab = Appro	ximate over	rall width o	gusset rou	nded up to r	earest inch	1		Web & Gus	set with 5/16* fi	lief welds for	t≤ 1.25°, 7/16	/" for t ≤ 2.0",	UNO			
Hw	= Height of	rame bay V	VP to WP					s = Bo	olt spacing	in a row					w.,,	= Weld size	e at repad	d to gusse	t	WLAR	= Alternat	te continu	ous weld a	t lug to gus	set							L	wh = Mini	imum leng	th of beam	n weld			(At V	or Chev. e	oual to 1/2	- ousset widt	h) NOT USE	ED FOR DE	TAILING		CP = Cont i	Plate & Guss Su	pport Plate						
L	= Length of	CoreBrace	between ou	termost b	oles			a. = Ga	auge inne	bolt row fro	om CL of (CB			Euro	= Gusset &	repad A	572 grade		d	= Bolt dia	ameter (A	STM F312	5 GrA490/	2280 SC	OR ASTM	F3148 TN	A WITH C	LASS A F	AYING SL	REACE)	,	W _e = Mini	imum size	of ausset	weld to co	dumn	1	= Appr	ximate over	all height (f ausset rou	inded up to	nearest incl	h		"Main" Stiffe	mer is located at	ausset Free	Edge in Bm o	c Col for Std /	Conn			
	= Longth fr	m bottom W	NP to cente	r of botton	a holt hole			g = C	augo hotu	non inner a	nd outer h	olt rouse			• y,ger t.	= Thicknee	e of Luce	or z groupo	,		- Grip of	holt	COTINITOIL	0 01/11001	2200 00	01171011	10140 114		DIODINI		na noe,		= Mini	imum long	th of colum	no wold		-	NOT	LISED FOR		10	11000 op to	nour oot into			"Main" Stiffs	mer is located of	tel about ou	urret in Den for	WChev				
-wp-l	h - Lengurne	hollo in ing	WF to cente	a or <u>bottor</u>	Toor noie			90 - Ga	auge betw	belt hele in	nu outer u	oit rows			۹L	- Thickness	s of Cutte				- Grip or	DOIL .	and a day Mb	F 400	an amh i								wc - Milli	intumeng	an or colum	IIII WCIU		-		USED FOR		l detell					Main Suin	ments located of	int above gr	Dec coch cod	w/cillev				
"	h = Number of	Dolts in inn	IEF FOW		,			a _{hg} = Di	ameter or	bolt noie in	gusset pla	ate			L _a	= Thicknes	s or sume	ener on Lu	g		= Length	of bolt n	eeded with	F436 wash	er only													E	xt = IT yes	see "exten	dea. guss	t detail					Stiffener at	z' is centered in	"z" region in	n Bm each end	of V/Chev				
		belts in out		\sim	$\sim \sim /$			$t_g = Th$	iickness o	f gusset										La	= Sugge	sted leng	th of bolt to	order, deta	aller to verif	fy																					(on both s	des of beam - 4	x total).						
I.					5																																										All Stiffene	rs both sides o	f Bm or Col						
82022-11-16	-Nogales HS A	dition			z																																										Gusset Edg	es - See details	for configura	tion.					
Shadid Cl	Is Nave Ch	and since	6/26/2023	M																																																			

5789 W. Wells Park Rd. West Jordan, Utah 84081 (801) 280-0701

COREBRACE SCHEDULE



CONNECTION SCHEDULE 2







1. TYPICAL AT FLOORS UNLESS NOTED OTHERWISE:
MDF-1 2 1/2" LT. WT. CONCRETE SLAB W/ #4 @ 18" O.C. U.N.O. EACH WAY CENTERED IN SLAB OVER 3" X 18 GA. W3 FORMLOK (GALVANIZED) DECK BY VERCO MANUFACTURING CO., 5 1/2" TOTAL THICKNESS (IAPMO ER #2018) SEE DECK SHALL BE CONTINUOUS OVER 2 OR MORE SUPPORTS.
MDE-2 2 1/2" LT. WT. CONCRETE SLAB W/ #4 @ 18" O.C. U.N.O. EACH WAY CENTERED 3 IN SLAB OVER 1 1/2" x 18 GA. B. FORMLOK (GALVANIZED) DECK (VENTED) BY VERCO MANUFACTURING CO., 4" TOTAL THICKNESS (IAPMO ER #2018) SEE 4 DECK SHALL BE CONTINUOUS OVER 2 OR MORE SUPPORTS. 3
 FLOOR DECK SHALL BE ATTACHED WITH HEADED STUD ANCHORS AND 3/4" Φ (VISIBLE, 1/2"Φ EFFECTIVE) PUDDLE WELDS. SPACE H.S.A. AS SPECIFIED ON PLANS AND DETAIL 10/50.5 MAXIMUM SPACING OF H.S.A. SHALL BE 12" O.C. (TYP. ALL BEAMS AND GIRDERS U.N.O.) H.S.A. MAY BE USED AS DIRECT REPLACEMENT FOR PUDDLE WELDS, BUTTON PUNCH SEAMS @ 36" O.C. MAX.
3. ALL FLOOR BEAMS SHALL RECEIVE HEADED STUD ANCHORS PER DET.
4. TYPICAL PIPE OR DUCT THROUGH FLOOR PER 50.5
5 DESIGNATION ON PLANS INDICATES NON-SEISMIC DRAG/MOMENT CONNECTION TO COLUMN FLANGE PER 10
50.4
6. DESIGNATION ON PLANS INDICATES NON-SEISMIC DRAG/MOMENT CONNECTION TO COLUMN WEB PER
7. DENOTES NON SEISMIC MOMENT BEAM TO BEAM CONNECTION PER
8. COORDINATE ALL TOP OF STEEL ELEVATIONS (T.O.S.) WITH ARCHITECTURAL ELEVATIONS.
9. DENOTES DRAG CONNECTION PER 1 6 7 8 50.4 50.4 50.4 50.4 50.4
10. DENOTES SEISMIC MOMENT CONNECTION PER 4 50.9
11 DENOTES BOTTOM FLANGE BEAM BRACING PER DETAIL 50.9
12. SHADED AREA INDICATES EXTENTS OF SLAB DEPRESSION PER PLAN. VERIFY WITH ARCH'L. DRAWINGS.
13. HATCHED AREA INDICATES EXTENT OF B FORMLOK: 2 1/2" LT.MT. CONCRET SLAB W/ #4 @18" O.C. U.N.O. EA. WAY CENTERED IN SLAB OVER 1 1/2" x 18 GA. B FORMLOK (GALVANIZED DECK (VENTED) BY VERCO MANUFACTURING CO. 3 1/2" TOTAL THICKNESS (IAPMO ER-2018) SEE DETAIL
15. ELEVATOR GUIDERAIL SUPPORT PER
16. CROSS HATCHED AREA INDICATES EXTENT OF CONCRTE PAD PER 3/50.7
17. HATCHED AREA INDICATES EXTENTS OF ADDITIONAL 3" LT. WT. CONC. FILL OVER FLOOR DECK TYPE MDF-2 PER NOTE NO.1 FOR A TOTAL FLOOR SLAB THICKNESS OF 8". ADDITIONAL REINFORCEMENT CONSIST OF #4 @ 18" O.C. EA. WAY CENTERED IN ADDED SLAB THICKNESS.

KEY NOTES 1 10x10 UP TO EF-1 ON ROOF. 2 12x12 UP TO EF-2 ON ROOF. 3 TYPICAL DUCT WITH 2" INTERNAL INSULATION. SHALL INCLUDE VERTICAL DUCT PLENUMS, & FITTINGS FROM RT UNITS TO LOCATIONS SHOWN ON PLANS. 4 REFER TO FAN COIL SCHEDULES FOR OA WHEN BALANCING (TYP ALL FAN COILS). 5 LOUVER CENTERED ABOVE DOORS AT 14'-0" TO THE TOPSIDE OF THE LOUVER FROM FLOOR LEVEL.. 6 PROVIDE REFRIGERANT PIPING TO HP'S ABOVE MANUFACTURERS RECOMMENDATIONS. (TYP) 7 INSTALL FAN COIL WITH CLEARANCE AS PER MANUFACTURER. (TYP) 8 AC-1 FOR IT ROOM. 9 AC-2 FOR IT ROOM 10 ALL DUCTS SHALL BE SUPPORTED AS SHOWN ON DETAILS 2.38 AND 2.50 ON SHEET M6.4. (TYPICAL) (11) PROVIDE COVERS FOR THERMOSTATS IN LOCKER ROOMS. PROVIDE DRYER VENTING BOX MODEL DEFLECGO DVBOX 17.38 x 11.5 x 4.5 IN WALL AT 54" AFF TO TOP OF BOX. RUN 4" DRYER DUCT FROM VENTING BOX TO LOUVER AT 14'-0" FROM FLOOR TO TOP OF LOUVER. DRYER DUCT SHALL BE 4" DIAMETER ALUMINUM DUCT LAPPED IN THE DIRECTION OF AIRFLOW AND SECURED WITHOUT SCREWS PENETRATING INSIDE THE DUCT. **GENERAL NOTES** ALL DUCTS SHALL BE SUPPORTED AND BRACED AS SHOWN ON DETAILS 2.38 AND 2.50 ON SHEET M6.4 AND STRUCTURAL DETAILS 8, 12 & 14 ON S0.7. (TYPICAL) 2. PROVIDE 2" INTERNAL DUCT INSULATION ON ALL DUCTS WHERE SHOWN INSIDE THE BUILDING. PROVIDE 2" INTERNAL DUCT INSULATION ON ALL DUCTS LOCATED OUTSIDE OF THE BUILDING ENVELOPE. EXTERNAL INSULATION IS NOT REQUIRED ON ANY SECTION OF DUCT WITH INTERNAL INSULATION. 3. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. 4. WHERE NOT SPECIFICALLY INDICATED REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.

KEY NOTES

1AC-4 FOR IT ROOM. MOUNT ON WALL AT 10 FT. TO MIDPOINT ABOVE FLOOR LEVEL. REFER TO
DETAIL 5 ON M6.2.212x12 UP TO EF-7 ON ROOF.

ALL DUCTS SHALL BE SUPPORTED AS SHOWN IN DETAILS ON SHEET M6.4 AND STRUCTURAL DETAILS 8 AND 12 ON S0.7. (TYPICAL)

4 FLEXI BLE DUCT CONNECTION. REFER TO DETAIL 20 ON M6.1.

2 SECTION THROUGH DANCE, AEROBICS ROOM A201 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DETAILS 2.37 ON M6.4 AND 8, 12 & 14 ON S0.7 FOR DUCT SUPPORTS.

- 2. PROVIDE 2" INTERNAL DUCT INSULATION ON ALL SUPPLY AIR DUCTS WHERE SHOWN INSIDE THE BUILDING. PROVIDE 2" INTERNAL DUCT INSULATION ON ALL SUPPLY, AND RETURN DUCTS WHERE DUCTS ARE LOCATED OUTSIDE OF THE BUILDING ENVELOPE.
- 3. PROVIDE 2" INTERNAL DUCT INSULATION ON ALL RETURN AND EXHAUST DUCTS WHERE SHOWN INSIDE THE BUILDING ENVELOPE.
- 4. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
- 5. WHERE NOT SPECIFICALLY INDICATED REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.

															PACKA	GED R	DOFTOP H	IEAT PU	MP UN	IT SCH	EDULE												
			ESP	AREA	NOMINAL	EDB EWB	LDB I	ENT. COND. TEMP (°F)	P. EER/	HEATIN CAPACIT (MBH	IG TES COF	P .	ELE	CTRIC HEAT		ELECT POW	RICAL DATA W/O ERED EXHAUST		0.5.4	FILTER	OPER.			STRUCTURAL		POWER EXHAUST		PWR. EXH.	ROOF		TOTAL WEIGHT RT,	STRUCT	ſURAL
UNIT	& MOD	EL NO.	-M (IN. WG	;) SERVED	TONS	°F °F	°F	°F SUMMER WINTE	ER SEER ^{IE}	ER TOTAL T @ 47 F @	OTAL HIGH I 0 17 F TEMP. T	LOW EMP.	ISPF	NOM (KW)	MCA	MCA FUSE BRI	OR CR FLA (R	LRA	CFM	(INCHES MERV 13) WT. 3 (LBS.)	V/PHASE/HZ		ANCHORAGE UNIT DETAILS	MAKE & MODEL	I HP FLA MCA MOO	CP V/PHASE/HZ	OPER. WT. (LBS)	WEIGHT (LBS)	MAKE & MODEL	CURB,POWER RELIEF FAN (LBS)	ANCHO DETA	₹AGE ILS
RT 1		2 50FCQ12 400	00 1.0	CHOIR ROC A101	M 10.0	83.5 66.6	58.3	56.8 96.3 68.8 39.2/32	2.6 11.0/ NA 1	15.0 115.0	66.0 3.4	2.25	NA	15.0	18.0	55 6	0 56	139	1260	4 IN.	1205	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	1 1 1 PE M6.2 M6.1 S0.7 1	MICROMETL 50FCQD12 4400	2 4.5 5.6 10.	.1 460/3/60	259	469	MICROMETL CRBV-SRT34GA-1412-P40	1933	1 M6.3	
RT 2		350FCQ14 500	00 1.0	BAND ROO A110	M 12.5	80.0 67.0	60.4	57.9 98.0 69.0 39.2/32	2.6 10.6/ NA 1	15.0 132.0	82.0 3.3	2.3	NA	15.0	18.0	48 5	0 48	152	700	4 IN.	1400	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	2 1 1 M6.2 M6.1 S0.7 2	MICROMETL 50FCQD14 5200	3 6.5 8.1 14.	.6 460/3/60	332	572	MICROMETL CRBV-SRT05GA-1412-P10	2304	2 M6.3	
RT 3		50GCQ04 120	0 0.75	TEAM ROO A113	M 3.0	83.0 67.1	59.4	57.8 96.3 69.0 39.2/32	2.6 16.2/ NA	NA 34.0	17.0 3.8	2.4	8.3	6.0	7.2	20 2	0 19	56	300	2 IN.	625	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 3	MICROMETL 50GCQM04 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	921	3 M6.3	
RT 4		50GCQ04 120	0 0.75	TEAM ROOM A11	3.0	83.0 67.1	59.4	57.8 96.3 69.0 39.2/32	2.6 16.2/ NA	NA 34.0	17.0 3.8	2.4	8.3	6.0	7.2	20 2	0 19	56	320	2 IN.	625	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 4	MICROMETL 50GCQM04 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	921	3 M6.3	1 S0.
RT 5		50GCQ07 240	0 0.75	BOYS LOCKERS A	18 6.0	84.2 67.0	57.3	57.2 97.3 68.8 39.2/32	2.6 11.2/ 15.0 N	NA 64.5	35.0 3.6	2.4	N/A	6.0	7.2	26 3	0 25	81	810	2 IN.	749	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 5	MICROMETL 50FCQA07 2675	i 1.0 2.8 3.5 6.3	3 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1045	3 M6.3	
RT 6		50GCQ05 160	0 0.75	CLASSROO A131	M 4.0	84.8 67.1	59.3	57.8 98.0 69.0 39.2/32	2.6 16.2/ NA	NA 46.0	23.6 3.7	2.3	8.2	6.0	7.2	24 2	5 23	75	440	2 IN.	740	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 6	MICROMETL 50GCQM05 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1036	3 M6.3	
RT 7		50GCQ06 198	0.75	CLASSROO A132	M 5.0	84.0 66.8	57.5	57.1 98.0 69.0 39.2/32	2.6 16.2/ NA NA	NA 56.5	30.0 3.9	2.4	8.3	6.0	7.2	25 3	0 24	69	560	2 IN.	846	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 7	MICROMETL 50FCQA06 2675	i 1.0 2.8 3.5 6.3	3 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1142	3 M6.3	
RT 8		50GCQ05 160	0 0.75	CLASSROO A133	M 4.0	84.8 67.1	59.3	57.8 98.0 69.0 39.2/32	2.6 16.2/ NA NA	NA 46.0	23.6 3.7	2.3	8.2	6.0	7.2	24 2	5 23	75	450	2 IN.	740	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 8	MICROMETL 50GCQM05 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1036	3 M6.3	
RT 9	CARRIER	50GCQ07 240	0 0.75	GIRLS LOCKERS A	45 6.0	81.3 66.9	57.2	57.2 98.0 69.0 39.2/32	2.6 11.2/ 15.0 N	NA 64.5	35.0 3.6	2.4	N/A	6.0	7.2	26 3	0 25	81	420	2 IN.	749	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 9	MICROMETL 50FCQA07 2675	i 1.0 2.8 3.5 6.3	3 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1045	3 M6.3	1 S0. ⁻
RT 10	CARRIER	50GCQ04 120	0 0.75	TEAM ROO A151	M 3.0	83.0 67.1	59.4	57.8 96.3 69.0 39.2/32	2.6 16.2/ NA NA	NA 34.0	17.0 3.8	2.4	8.3	6.0	7.2	20 2	0 19	56	320	2 IN.	625	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 10	MICROMETL 50GCQM04 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	921	3 M6.3	1 S0. ⁻
- RT	CARRIER	50GCQ04 120	0 0.75	TEAM ROO A150	VI 3.0	83.0 67.1	59.4	57.8 96.3 69.0 39.2/32	2.6 16.2/ NA	NA 34.0	17.0 3.8	2.4	8.3	6.0	7.2	20 2	0 19	56	300	2 IN.	625	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 11	MICROMETL 50GCQM04 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	921	3 M6.3	1 S0.
RT 12		50GCQ05 160	0 0.75	CHANGING F A157	RM 4.0	84.8 67.1	59.3	57.8 98.0 69.0 39.2/32	2.6 16.2/ NA	NA 46.0	23.6 3.7	2.3	NA	6.0	7.2	24 2	5 23	75	700	2 IN.	740	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 12	MICROMETL 50GCQM05 1850	0 0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1036	3 M6.3	
RT 13		50GCQ05 160	0 0.75	CHANGING F A156	4.0	84.8 67.1	59.3	57.8 98.0 69.0 39.2/32	2.6 16.2/ NA NA	NA 46.0	23.6 3.7	2.3	8.2	6.0	7.2	24 2	5 23	75	380	2 IN.	740	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 13	MICROMETL 50GCQM05 1850	0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	1036	3 M6.3	1 S0.
RT 14		50GCQ04 120	0 0.75	PUMP RM A166	3.0	83.0 67.1	59.4	57.8 96.3 69.0 39.2/32	2.6 16.2/ NA NA	NA 34.0	17.0 3.8	2.4	8.3	6.0	7.2	20 2	0 19	56	140	2 IN.	625	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	3 1 1 M6.2 M6.1 S0.7 14	MICROMETL 50GCQM04 1850	0.5 1.5 1.9 3.4	4 460/3/60	191	105	MICROMETL CRBV-SRT12GA-1412-P10	921	3 M6.3	1 S0.
RT 15		50FCQM08 300	00 1.0	CAMPUS M DANCE, EXERCISE	TG, 7.5 \201	82.7 66.6	59.6	57.5 98.0 69.0 39.2/32	2.6 11.2/ 1	15.0 75.15	3.4	2.3	-	15.0	18.0	44 4	5 43	113	900	2 IN.	1028	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	4 1 PE M6.2 M6.1 S0.7 15	MICROMETL 50FCQD08 3000	1.0 2.8 3.5 6.3	3 460/3/60	323	719	MICROMETL CRBK-SRT34GA-1411	2070	18 M6.1	1 S0.
RT 16		50FCQM08 300	0 1.0	CAMPUS M DANCE, EXERCISE	TG, 7.5 \201	82.7 66.6	59.6	57.5 98.0 69.0 39.2/32	2.6 11.2/ 1	15.0 75.15	3.4	2.3	-	15.0	18.0	44 4	5 43	113	900	2 IN.	1028	460/3/60	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16	4 1 PE M6.2 M6.1 S0.7 16	MICROMETL 50FCQD08 3000	1.0 2.8 3.5 6.3	3 460/3/60	323	719	MICROMETL CRBK-SRT34GA-1411	2070	18 M6.1	1 S0.
NOTE	ES:						•		•			NOTES	S: (CONT'D)											, <u> </u>		• •							

SCHEDULED LOADS INCLUDE FAN AND MOTOR HEAT.

PROVIDE ANTI-RECYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT KIT AND HIGH CAPACITY FILTER RACK. PROVIDE FACTORY "MICROMETL" MODULATING ECONOMIZER WITH POWER EXHAUST. AC UNIT SHALL HAVE C02 CONTROL. PROVIDE WITH LOCKING MESH COVER. POWER EXHAUST SHALL BE PROVIDED WITH A SEPARATE DISCONNECT SWITCH, FIELD WIRED BY ELECTRICAL.

PROVIDE AND INSTALL PER DETAILS 1, 2, OR 3 ON M6.3 OR DETAIL 18 ON M6.1 BYPASS UNIT ANTI-RECYCLE TIMER WHEN ANTI-RECYCLE FUNCTION IS INCLUDED IN THE THERMOSTAT.

OVERALL SMOKE DETECTION SYSTEM PROVIDED BY ELECTRICAL FOR ALL UNITS 2000 CFM AND ABOVE TO SHUT-OFF UPON DETECTION OF SMOKE AND SIGNAL FROM THE FIRE ALARM SYSTEM,

INSTALL IN STRICT ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE, SECTION 608. REFER TO ELECTRICAL PLANS AND MECHANICAL TO CONNECT TO ELECTRICAL RELAY. PRIOR TO MECHANICAL PERMIT FINAL, A SMOKE DETEGTOR SYSTEM SHUT-OFF SESTWICK BEREQUIRED. PROVIDE WITH FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH. MOUNT SWITCH ON EXTERIOR CASING OF UNIT.

INDOO	R FAN COILS																									OUTDO	OR HEAT PUI	MPS							
	MANUFACTURER	AREA	0514	EXT. STATIC	O.S.A.	COOLING HE		EER/	E	ENTERING CO TEMP.	ONDENSER (°F)	HEAT CAPAC (MB	ING ITIES H)		COIL	EMPERATURI	ES	C	OP	FILTERS	ELECTRICAL	OPER.		Ľ	STRUCTURAL		MOCP MANUFACTURER	AMBIENT	E	ELECTRICAL		POWER	OPER.	3	STRUCTURAL
UNII	& MODEL NO.	SERVED	CFM	PRESS.	(CFM)	CAPACITY CAP (TONS) (N	MBH)	ER ^{II}		SUMMER	WINTER	TOTAL	TOTAL	HSPF	EDB E	WB LDB	LWB	@ 47 °F	() () ()	(MERV 13)	FAN MOTOR	(LBS.)	R	EMARKS	ANCHORAGE DETAIL	UNII	& MODEL NO.	TEMP. (°F) DB/WB	POWER SUPPLY	COMPRESS	DR FAN MAX.	(VOLT)	WT. (LBS.)		DETAIL
				(114. 10.0.)		· · /				DB °F WB °F	DB °F	@ 47 °F	@ 17 °F		(°F)	(°F) (°F)	(°F)	@ 47 F	@17 F		HP VOLT			\sim		MCA			MCA MFS	RLA	(W)				$\overline{\mathbf{x}}$
FC 1	CARRIER 48MBDQ123	A104 INST, STG.	400	0.6	110	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	75.9 6	5.6 61.2	60.2	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 1	CARRIER 38MARBQ12AA3	98.0/69.0	15 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19, 13, 1	4 4 4 11 M6.1 S0.7
FC 2	CARRIER 48MBDQ123	A106/108/109 PRACTICE AREA	400	0.6	65	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	81.7 6	5.6 60.2	58.1	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	(HP)	CARRIER 38MARBQ12AA3	98.0/69.0	15 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19, 13, 1	$4 \left\{ \begin{array}{c} 4 \\ M6.1 \end{array} \right. \left(\begin{array}{c} 11 \\ S0.7 \end{array} \right)$
FC 3	CARRIER 48MBDQ123	A119/115 COACHS	400	0.6	115	1.0	12.0 21.	5/13.0 N/	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	82.3 6	4.6 56.8	55.1	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	$\begin{array}{c} HP \\ \hline 3 \end{array}$	CARRIER 38MARBQ12AA3	98.0/69.0	115 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19, 13, 1	4 4 4 11 M6.1 S0.7
FC 4	CARRIER 40MBDQ183	A120 LAUNDRY	600	0.6	55	1.5	19.0 19.0	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	77.5 6	4.8 64.7	60.4	2.93	1.9	2 IN.	1.2 MCA 208/1PH	54		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	$\left(\begin{array}{c} HP \\ 4 \end{array} \right)$	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19, 13, 1	4 4 4 11 M6.1 S0.7
FC 5	CARRIER 40MBDQ183	A117/112/116 COACH	600	0.6	140	1.5	19.0 19.0	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	81.0 6	4.5 61.6	57.6	2.93	1.9	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 5	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 6	CARRIER 40MBDQ183	A129/128/130 PE TEACHER	600	0.6	110	1.5	19.0 19.	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	79.8 6	4.6 60.6	57.9	2.93	1.9	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 6	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 7	CARRIER 40MBDQ183	A127 ATHLETIC TRAINER	600	0.6	90	1.5	19.0 19.	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	78.9 6	5.8 58.2	56.9	2.93	1.9	2 IN.	1.2 MCA 208/1PH	54		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 7	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 8	CARRIER 40MBDQ183	A141 LAUNDRY	600	0.6	55	1.5	19.0 19.	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	87.4 6	6.0 64.7	58.2	2.93	1.9	2 IN.	1.2 MCA 208/1PH	54		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 8	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 9	CARRIER 40MBDQ183	A136 PE STORAGE	600	0.6	90	1.5	19.0 19.	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	78.0 6	7.9 64.4	63.4	2.93	1.9	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 9	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 10	CARRIER 48MBDQ123	A142/144 COACH	400	0.6	115	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	82.3 6	4.6 56.8	55.1	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 10	CARRIER 38MARBQ12AA3	98.0/69.0	18 25	8.5	100.3	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 11	CARRIER 48MBDQ123	A147/148 PE COACH	400	0.6	100	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	81.2 6	4.1 56.0	54.4	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 11	CARRIER 38MARBQ12AA3	98.0/69.0	15 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 12	CARRIER 48MBDQ123	A152/149/153 WALK ON COACH	400	0.6	100	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	79.3 6	4.2 64.1	58.9	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 12	CARRIER 38MARBQ12AA3	98.0/69.0	15 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
FC 13	CARRIER 48MBDQ123	A155/154 OFFICE	400	0.6	60	1.0	12.0 21.	5/13.0 NA	IA 9	98.0 69.0	39.2	12.9	8.35	11.5	80.2 6	3.2 55.0	53.4	3.52	2.0	2 IN.	1.11 MCA 208/1PH	44	1,	, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 13	CARRIER 38MARBQ12AA3	98.0/69.0	115 25	8.5	100.3	208V/1PH/60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 4 4 4 11 50.7
FC 14	CARRIER 40MBDQ243	A163 & A164 SNACK TICKET/STG	800	0.6	115	2.0 2	24.6 20.	6/12.5 NA	IA 9	98.0 69.0	39.2	20.6	16.5	12.6	79.6 6	3.0 55.0	53.5	3.66	2.8	2 IN.	1.2 MCA 208/1PH	87	1, 1, 1	, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 14	CARRIER 38MARBQ24AA3	98.0/69.0	25 35	14.8	173	208V/1PH/60HZ	134	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 4 4 4 11 50.7
FC 15	CARRIER 40MBDQ183	A165 STORAGE	600	0.6	100	1.5	19.0 19.	6/12.5 NA	IA 9	98.0 69.0	39.2	19.0	12.7	11.0	79.6 6	3.0 55.0	53.5	2.93	1.9	2 IN.	1.2 MCA 208/1PH	54		, 4, 5, 6, 9, 10, 1, 12, 13, 14	4.2 to 4.5 M6.4 M6.1 S0.7	HP 15	CARRIER 38MARBQ18AA3	98.0/69.0	18 25	14.25	120	208V/1PH/60HZ	101	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 1	4 4 4 11 M6.1 S0.7
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NOTES: 1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES. 2. PROVIDE LOW AMBIENT KIT.

PROVIDE 2/4" EXPAND METAL CONDENSING COIL GUARD.
 PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
 SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.

6. MERV 13 FILTERS. 7. MOUNT ON TOP OF 1/2" NEOPRENE ON PAD PROVIDED BY STRUCTURAL.

- 8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED. 9. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS.
- 10.PROVIDE WITH FACTORY FILTER BOX. 11.POWERED FROM OUTDOOR UNIT.

12.FAN COILS SHALL HAVE AN OUTDOOR AIR CONNECTION COLLAR. 13.BEFEB TO MG 3 GONTROLS SCHEMATICS FOR THEBMOSTAL AND CONTROLS INFO 14.PROVIDE FACTORY MOUNTED DISCONNECT SWITCH ON OUTSIDE CASING OF EACH UNIT.

NOTES: (CONTD)

PROVIDE FACTORY CONDENSER COIL GUARDS. 9. PROVIDE DEMAND CONTROL VENTILATION (DCV) FOR SYSTEMS, C02 SENSORS TO BE INTEGRAL WITH ALERTON CONTROLS. REFER TO M6.3 CONTROLS

SCHEMATICS. 10. UNITS SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED WITHIN ROOF CURB.

11. ALL AC UNITS SHALL HAVE R-410A REFRIGERANT. 12. PROVIDE WITH FACTORY MOUNTED NON-POWERED CONVENIENCE OUTLET.

13. WEIGHT INCLUDES RTU AND POWER EXHAUST. 14. RTU'S SHALL COME WITH INTEGRAL ELECTRIC HEATER..

15. REFER TO DRAWING M6.3 FOR CONTROLS 16. MERV 13 FILTERS.

SPLIT SYSTEM HEAT PUMP SCHEDULE

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			AIR DIS	STRIBUTION SCHEDULE
SYMBOL	TYPE	MOUNTING TYPE	MAKE & MODEL	DESCRIPTION
A	CEILING SUPPLY	SURFACE MOUNT	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER WITH FRAME FOR SURFACE MOUNTING IN HARD CEILING. FLUSH FACE MOUNTING. 24" x 24" WITH CIRCULAR CONNECTIONS
B	CEILING SUPPLY	T-BAR MOUNT	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER. T-BAR MOUNTING. FLUSH FACE MOUNTING. 24" x 24" WITH CIRCULAR CONNECTION.
Ô	EXHAUST OR RETURN	SURFACE MOUNT	PRICE MODEL 635L	LOUVERED INLET GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIN FOR SURFACE MOUNTING, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS.
D	SIDEWALL SUPPLY	SURFACE MOUNT	PRICE MODEL 620	LOUVERED SUPPLY GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING, DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS.
È	CEILING RETURN OR EXHAUST	T-BAR MOUNT	PRICE MODEL 635L	LOUVERED RETURN GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR T-BAR MOUNTING.
Ē	DUCT MOUNTED SUPPLY	SPIRAL DUCT MOUNT	PRICE MODEL SDG	SPIRAL DUCT SUPPLY GRILLE, MOUNTED DIRECTLY ON ROUND OR SPIRAL DUCTS, AT 30 DEGREES FROM HORIZONTA DOUBLE DEFLECTION WITH FRONT BLADES HORIZONTAL TO THE FLOOR, C/W AIR SCOOP FOR BALANCING.
G	WALL RETURN OR EXHAUST	SURFACE MOUNT	PRICE MODEL 93	STEEL HEAVY DUTY GYM RETURN GRILL, 45 DEGREE BLADES., FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS.
Ð	CEILING RETURN OR EXHAUST	T-BAR MOUNT	PRICE MODEL 635L	LOUVERED INLET GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIN FOR T-BAR MOUNTING. FACE SIZES ARE 24"x24".
	INTAKE LOUVER	WALL SURFACE MOUNTED	GREENHECK MODEL ESD-435	EXTRUDED ALUMINUM LOUVER, C/W BIRDSCREEN, MERV 13 FILTERS IN FILTER RACK, MOUNTING FLANGES, PRIME COATED.
M	SIDEWALL SUPPLY	EXPOSED DUCT MOUNT	PRICE MODEL 620	LOUVERED SUPPLY GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING, DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS.
$\langle N \rangle$	EXHAUST OR RETURN	EXPOSED DUCT MOUNT	PRICE MODEL 635L	LOUVERED INLET GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS.

INDOO	R WALL MOUNT		IITS																								TDOO	R HEAT PU	MPS														
	MANUFACTURER	AREA		EXT. STATIC	O.S.A.	COOLING	HEATING	SEER/		ENTER	ING CONDE TEMP. (°F)	INSER	HEATIN CAPACIT (MBH)	IG TES)		COII	L TEMPERA	TURES		COP			ELECTRICAL	OPER.		05	_	MOCP	AMBIENT	г	FAN MOTOR (W)	r input			ELECTRICAL		PO	er Of	PER.		&	STR	
UNII	& MODEL NO.	SERVED	CFM	PRESS. (IN. W.G.)	INTAKE (CFM)	CAPACITY (TONS) RATED	(MBH) RATED	EER	IEER	SUM	/IER \	WINTER 1	TOTAL	TOTAL @ 17 °F	HSPF	EDB (°F)	EWB (°F)	LDB L (°F)	_WB (°F) @) 47 °F @ 17 '	F	RS M	FAN MOTOR /ICA	(LBS.)			A	& MODEL NO.	TEMP. (°F) DB/WE		IT FLA	HP	POWER MCA	R SUPPLY	COMPRES	SSOR INPL (W	AX. (VC JT)	_T) (Li	VT. R BS.)	REMARKS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ETAIL
AC 1	CARRIER 40MAHBQ24XA3	INSTRUMENT STORAGE A104	414	NA	0	2.0	29.0	21.5/13.0	NA	98	69	39.2	29.0	19.8	23.0	NA	NA	NA	NA	3.4 3.0	5 Y	2	25 208/1PH	44	5 M6.2			CARRIER 38MARBQ24AA3	98.0	NA	NA	NA	25.0	30	208/1/6) NA	208V/1F	H/60HZ 13	34.3	1, 2, 3, 4, 5, 6, 7 10, 11, 12, 13, 1	8, 9, 4 , 15	4 M6.1	S
AC 2	CARRIER 40MAHBQ24XA3	ELECTRICAL ROOM A139	414	NA	0	2.0	29.0	21.5/13.0	NA	98	69	39.2	29.0	19.8	23.0	NA	NA	NA	NA	3.4 3.0	5 Y	2	25 208/1PH	44	5 M6.2	CL 2		CARRIER 38MARBQ24AA3	98.0	NA	NA	NA	25.0	30	208/1/6) NA	208V/1F	H/60HZ 13	34.3	1, 2, 3, 4, 5, 6, f 10, 11, 12, 13, f	8, 9, 7 1 , 15 7	4 M6.1	S
AC 3	CARRIER 40MAHBQ24XA3	STORAGE A165	414	NA	0	2.0	29.0	21.5/13.0	NA	98	69	39.2	29.0	19.8	23.0	NA	NA	NA	NA	3.4 3.0	5 Y	2	25 208/1PH	44	5 M6.2	CL 3		CARRIER 38MARBQ24AA3	98.0	NA	NA	NA	25.0	30	208/1/6) NA	208V/1F	H/60HZ 13	34.3	1, 2, 3, 4, 5, 6, f 10, 11, 12, 13, f	8, 9,) 4, 15	4 M6.1	S
AC 4	CARRIER 40MAHBQ24XA3	STORAGE A202	414	NA	0	2.0	29.0	21.5/13.0	NA	98	69	39.2	29.0	19.8	23.0	NA	NA	NA	NA	3.4 3.0	5 Y	2	25 208/1PH	44	5 M6.2			CARRIER 38MARBQ24AA3	98.0	NA	NA	NA	25.0	30	208/1/6) NA	208V/1F	H/60HZ 13	34.3	1, 2, 3, 4, 5, 6, 7 10, 11, 12, 13, (8, 9,) 4, 15 }	4 M6.1	s

NOTES: 1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES. 2. PROVIDE LOW AMBIENT KIT. 3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD. 4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS. 5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.

6. FACTORY FILTER INCLUDED.

6. FACTORY FILTER INCLUDED.
 7. MOUNT ON TOP OF 1/2" NEOPRENE ON PAD PROVIDED BY STRUCTURAL.
 8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED.
 9. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS.
 10.PROVIDE WITH FACTORY FILTER.
 11.INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

12.UNIT SHALL BE SET TO COOLING ONLY. 13. PROVIDE INDOOR UNITS WITH CONDENSATE PUMPS. 14. REFER TO SHEET MC.S.FOR CONTROLS. 15. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH ON THE EXTERIOR CASING OF EQUIPMENT.

					FAN	I SCH	EDUL	3							
	MANUFACTURER	SERVICE	TYPE	CEM	SP	FAN			MOTOR			SONES	OPER WT.	REMARKS	STRUCTURAL ANCHORAGE
CIVIT	& MODEL NO.		1112		W.G.	RPM	HP/ BHP	FLA	VOLT	PH	HZ		(LBS)		DETAIL
F 1	GREENHECK CSP-A390-VG	OUTSIDE AIR SUPPLY FAN	INLINE FAN	320	0.6	1477	0.12	1.5	120	1	60	3.2	24	2, 3, 4, 5, 6, 7, 8, 9	8 12 14 M6.1 S0.7 S0.7
F 2	GREENHECK CSP-A510-VG	OUTSIDE AIR SUPPLY FAN	INLINE FAN	385	0.6	1311	0.14	2.5	120	1	60	1.1	36	2, 3, 4, 5, 6, 7, 8, 9	8 12 14 M6.1 S0.7 S0.7
F 3	GREENHECK CSP-A700-VG	OUTSIDE AIR SUPPLY FAN	INLINE FAN	520	0.6	1241	0.16	4.1	120	1	60	2.0	39	2, 3, 4, 5, 6, 7, 8, 9	8 12 14 M6.1 S0.7 S0.7
EF 1	GREENHECK G-080-VG	GENERAL EXHAUST	ROOF FAN	180	0.75	1608	0.06	1.5	120	1	60	8.0	28 + CURB	1, 2, 3, 4, 5, 6, 7, 9	17 M6.1 2 S0.7
EF 2	GREENHECK G-130-VG	GENERAL EXHAUST	ROOF FAN	1260	0.75	1308	0.25/0.50	6.6	120	1	60	10.7	49	1, 2, 3, 4, 5, 6, 7, 9	17 M6.1 2 S0.7
EF 3	GREENHECK CSP-A710	LAUNDRY ROOM A120	INLINE FAN	365	0.6	1080	0.14	4.9	120	1	60	2.0	36	2, 3, 4, 5, 6, 7, 9	8 12 14 M6.1 S0.7 S0.7
EF 4	GREENHECK GB-180	GENERAL EXHAUST	ROOF FAN	2065	0.75	874	0.47/0.50	9.8	120	1	60	8.5	92	1, 2, 3, 4, 5, 6, 7,	17 M6.1 2 S0.7
EF 5	GREENHECK CSP-A700-VG	LAUNDRY ROOM A141	INLINE FAN	365	0.6	1210	0.11	4.1	120	1	60	2.0	39	2, 3, 4, 5, 6, 7, 9	8 12 14 M6.1 S0.7 S0.7
EF 6	GREENHECK CSP-A510-VG	POOL PUMP ROOM A166	ROOF FAN	500	0.40	1313	0.19	2.45	120	1	60	2.0	36	1, 2, 3, 5, 6, 7, 9	17 M6.1 2 S0.7
EF 7	GREENHECK G-097-VG	REST ROOMS A204 & A205	ROOF FAN	120	0.3	1029	0.03/0.25	3.8	120	1	60	3.9	38	1, 2, 3, 4, 5, 6, 7, 9	17 M6.1 2 S0.7
EF 8	GREENHECK CSP-A290	ELECTRIC ROOM A139	INLINE FAN	250	0.25	1050	0.04	0.83	120	1	60	3.0	24	2, 3, 5, 6, 7, 9	8 12 14 M6.1 S0.7 S0.7
EF 9	GREENHECK SP-A90-130-VG	FIRE RISER A178	CABINET FAN	120	0.25	1041	12 WATTS	0.29	120	1	60	2.0	12	2, 3, 5, 6, 7, 10	8 12 14 M6.1 S0.7 S0.7
EF 10	GREENHECK SP-A90-130-VG	STORAGE A160	CABINET FAN	120	0.25	1041	12 WATTS	0.29	120	1	60	2.0	12	2, 3, 5, 6, 7, 10	8 12 14 M6.1 S0.7 S0.7
NOTES: 1. PROVID 2. REFER 3. PROVID 4. INTERLO 5. PROVID 6. PROVID 7. PROVID 8. PROVID	DE FACTORY ROOF CURB. SLOPE TO CONTROLS ON DRAWING M6. DE BACKDRAFT DAMPER FOR ALL OCK FAN WITH A/C UNIT PER CON DE FACTORY DISCONNECT SWITC DED FACTORY SOLID STATE SPEE DE CONTROL TRANSFORMER. DE WITH MERV 13 FILTERS	TO MATCH EXISTING ROOF SLOPE, AS 3. FANS. NTROLSEQUENCES MOUNTED ON THE EXTERIOR OF THE D CONTROLLER MOUNTED WITHIN THE	REQUIRED.				·				<u>.</u>	<u>.</u>			

9. FAN TO START/STOP ON SIGNAL FROM EMS.
 10. FAN TO OPERATE BY COOLING TSTAT ON WALL.

SPLIT SYSTEM AC AND CU SCHEDULE

PLUMBING FIRST FLOOR PLAN - AREA A - WATER AND GAS 1/8" = 1'-0"

KEYNOTES:

NORTH

1 PROVIDE METRAFLEX EXPANSION JOINTS FOR ALL PIPING CROSSING SEISMIC JOINTS. SEE DETAIL 9 ON SHEET P6.1

____ PLUMBING FIRST FLOOR PLAN - AREA B - WATER AND GAS 1/8" = 1'-0" KEYNOTES: 1 PROVIDE METRAFLEX EXPANSION JOINTS FOR ALL PIPING CROSSING SEISMIC JOINTS. SEE DETAIL 9 ON SHEET P6.1 2 HOT/COLD WATER RISER, TYPICAL. SEE P2.5.2 FOR CONTINUATION. 3 MOUNT HOSE BIBB A MINIMUM OF 18" ABOVE FINISHED FLOOR/GRADE. 4 ROUTE 1/2" LINE BELOW GRADE FROM TP TO FLOOR DRAIN. 5 COLD WATER SHUT OFF VALVE ABOVE CEILING ACCESS PANEL. 6 ROUTE 3/4" COLD WATER UP THROUGH ROOF TO HOSE BIBB. 7 SEE SITE PLAN SHEET P1.1 FOR CONTINUATION OF GAS PIPE. 8 GAS PIPE RISER UP INSIDE STAIRWELL. CONNECT TO GAS PRESSURE REGULATOR 9 AMERICAN METER 1800C, 3/4" INLET AND 1-1/2" OUTLET WITH 3/16" ORIFICE GAS PRESSURE REGULATOR. REGULATE 5 PSI TO 7" WC PIPING IN BUILDING. 7" WC PIPE SIZED PER 2022 CPC TABLE 1215.2(1) . TDL = 175'. TOTAL DEMAND = 345 MBH.

NORTH

- 1 POOL WORK STATION, SEE MR.1 FOR SPECIFICATION.
- 2 MECH UNIT. SEE MECH DWGS. ROUTE CONDENSATE TO FLOOR SINK.
- 3 TERMINATE OVERFLOW DRAIN 12" ABOVE GRADE.
- 4 ROUTE VENT THROUGH ROOF MIN. 10'-0" AWAY FROM OUTSIDE AIR INTAKE OR 3'-0" ABOVE. TYPICAL.
- 5 BACKFLOW PROVIDED BY POOL CONSULTANT. SEE SHEET MR.1.
- AMERICAN METER 1800C, 1-1/4" INLET AND 2" OUTLET WITH 1/2" ORIFICE GAS PRESSURE REGULATOR. REGULATE 5 PSI TO 7" WC PIPING IN BUILDING. 7" WC PIPE SIZED PER 2022 CPC
- TABLE 1215.2(1). TDL = 20'. TOTAL DEMAND = 2,500 MBH. 7 3/4" COLD WATER TO EACH SWIMMING POOL HEATER.
- 8 1-1/2" NATURAL GAS TO EACH SWIMMING POOL HEATER.
- DISCHARGE FULL-SIZED CONDENSATE DRAIN FROM SWIMMING POOL HEATER TO FLOOR SINK. ELBOW DOWN TERMINATE WITH 1" MINIMUM AIR GAP ABOVE FLOOD RIM OF FLOOR SINK.
- 10 POOL WATER HEATER FLUE.
- EYEWASH/SHOWER PROVIDED BY POOL CONSULTANT. SEE SHEET MR.1. $\begin{array}{c} & & \\$ CONDENSATE ROUTED BELOW ROOF TO SINK TAILPIECE. SEE 1/P3.1 FOR CONTINUATION. SEE 🕽

15/P6.1 FOR TRAP INSTALLATION. 1" VENT FROM GAS PRESSURE REGULATOR UP THRU ROOF. TERMINATE VENT THRU ROOF PER 6/P6.2. LOCATE MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKE OR 3'-0" ABOVE.

ROOF DRAIN SIZING CALCU

ROOF DRAIN	ROOF AREA COVERED	MAX AREA ALLOWED	SIZE
RD-P1	1889	2320	3"
RD-P2	133	2320	3"
RD-P3	38	2320	3"

UNIT	MANUFACTURER & MODEL NO.	LOCATION	
WH 1	A.O. SMITH CYCLONE Mxi MODEL BTH-300(A)	FIRE RISER A178	D
NO.	MANUFACTURER & MODEL NO.	LOCATION	
CP 1	BELL & GOSSETT MODEL NBF-45	FIRE RISER A178	D
NO.	MANUFACTURER & MODEL NO.	LOCATION	
ET 1	AMTROL INC THERM-X- TROL MODEL ST-12C-DD	FIRE RISER A178	D
NO.	MANUFACTURER & MODEL NO.	LOCATION	
MV		FIRE RISER A178	D

WASTE AND VENT SIZING TABLE

WASTE SIZI (HORIZONTAL F	VI (HORIZONTA	ENT SIZ L & VEF	
PIPE SIZE	FU	PIPE SIZE	
1 1/2"	1	1 1/2"	
2"	8	2"	
2 1/2"	14	2 1/2"	
3"	35	3"	
4"	216	4"	2
5"	428	5"	6
6"	720	6"	1

WATER HAMMER ARRESTER SIZING/SELECTION TABLE										
WHA SIZE	FIXTURE UNITS	CROSS REF PDI STANDARD								
1/2"	1 - 11	A								
3/4"	12 - 32	В								
1"	33 - 60	С								
1 1/4"	61 - 113	D								
1 1/2"	114 - 154	E								
2"	155 - 330	F								

		W	ATER HI	EATEF	₹ SCHE[DULE										PLU	MBING	FIXTU	RE SCHEDULE
SERVICE	TYPE TANK SIZE (GAL)	FUEL INPUT FUEL CAPACITY	RECOVERY RATE @80°F	INLET OUT TEMP. TE	ſLET MP.	ELECTRICAL		OPER. WT.(LBS)		REMARKS			MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
B DOM. HOT WATER	TANK 120	GAS 300	(GPH) 436	60 1	40 460	PHASEHERTZ360	43.3	1850	PROVIDE CONCENTRIC	C VENT KIT. SEE DETAIL 16 ON S	SHEET P6.1 FOR ANCHORAGE.	(WC 1	WATER CLOSET	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET SEAT
												(WC 2	WATER CLOSET (ACCESS.)	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET
SERVICE	ТҮРЕ	EFFICIENCY FLOW RATION					RE	EMARKS				_							AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO
B DOM. HOT WATER	VERTICAL, IN-LINE	- 10	20 2	270 3300	115/1/60	14.5	PROVIDE ANCHOR	AQUA STAT TO AGE.	START AT 120 DEGRE	ES AND STOP AT 140 DEGREES	S. SEE DETAIL 16 ON SHEET P6.1 FOF	R (LAVATORY (ACCESS.)	2"	1-1/2"	1/2"		FAUCETS NO. EVR-A12A-11ABCP SENSOR FAUCET. ADJUSTED TO STAY OPEN 10 SECONDS WITH (0.5 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. JAY R SMITH SERIES 0700 CARRIER, SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
		FX	PANSIO	Ν ΤΔΝ	KSCHE								L	LAVATORY					AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 2200-4E39VPABCP LEVER HANDLE FAUCET WITH (0.35 GPM)
SERVICE	QUANTITY	TOTAL VOL.(GAL) HEIGHT	DIAMETER	R OP W	ERATING T.(LBS.)	REMARKS							2	ACCESS.)	2"	1-1/2"	1/2"	1/2"	FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP AND SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
B DOM. HOT WATER	1	6.4 18"	12"		26 SEF	E DETAIL 16 ON SHEET	P6.1 FOR ANG	CHORAGE.						URINAL (ACCESS.)	2"	2"	3/4"		VITREOUS CHINA (ADA) WITH KOHLER "WAVE" K-10668-SV 0.125 GPF EXPOSE BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE JR. SMITH #0600 SERIES URINAL SUPPORTS. PROVIDE WALL CLEANOUTS ABOVE EACH URINAL. SEE DETAIL 13/P6.1 FOR MOUNTING DETAIL.
		THERMOS	STATIC N	MIXING	g valve	E SCHED	ULE						S 1	SINK (ACCESS.)	2"	1-1/2"	1/2"	1/2"	ELKAY NO. LRAD131655 SINGLE BOWL DROP-IN ADA SINK. 13"X16"X5-1/2" 18 GAUGE 304 STAINLESS STEEL BOWL WITH CENTER DRAIN. 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 526-317ABCP DECK-MOUNTED MANUAL SINK FAUCET WITH 4" FIXED CENTERS.
SERVICE	SIZE (INCH) PRE	SSURE DROP (PSI)	SERVIC	EMARKS	RES, SINGLE VALVE, M		= 10 GPM_MAX	216 GPM LEAD FREE N	MIXING VALVE PRESSURE GAL	IGE SET TO DELIVER 120°E HW		SH 1	SHOWER HEAD	FD	<u></u>	3/4"	3/4"	SHOWER STALL DESIGN BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536-MV, ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET
DOM. HOT WATER	2" INLETS,	2" OUTLET	5	PROVID	E REDUCER & INCRE	EASE FITTING AS REQU	JIRED. SEE DE	TAIL 16 ON SHE	ET P6.1 FOR ANCHOR	AGE.			SH	SHOWER HEAD	FD		1/2"	1/2"	ACORN 410B-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL, SINGLE TEMP 1.6 GPM SHOWER WITH
											C		2 SH	(EXTERIOR) SHOWER HEAD			4 (0)	4/0"	ON/OFF PUSHBUTTON. ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL WITH ADA COMPLIANT CONTROL VALVE,
	_	WASTE 0		WASTE		WATER			VVAIER		5		3	(ACCESS. EXTERIOR)			1/2	1/2*	HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK- DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. PROVIDE PADDED SEAT WHERE SHOWN ON PLANS. SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS, DESIGNED BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 538ADA-PBH-HL-
FU MAX. (FT.)	WAST	FIXTURE E CLOSET - FLUSH TANK	QUANI	TY FIXTURE UNITS 3.0	TOTAL FIXTUF UNIT: - 3.0	RE TOTAL	BU		BUILDING	121 GPM EXTERNAL PRESSURE LOSS			SH 4	HEAD (ACCESS. INTERIOR)	FD		3/4"	3/4"	QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND- SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, TEMPERATURE- PRESSURE BALANCING MIXING VALVE. SET OUTLET TEMPERED WATER TO 108 DEG E, CBC ACCESS COMPLIANT, 1.6 GPM
8 60 24 120	URINA	R CLOSET - FLUSH VALVE L - FLUSH VALVE ORY	34 6 33	4.0 2.0 1.0	136 5.0 12 4 33 1.0	170 24 33		X. 75 PSI WATER METER			4 PSI 11 PSI			MIXING VALVE			2"	2"	BRADLEY LW-985-SW-LF THERMOSTATIC WATER MIXING VALVE, INTEGRAL COMBINATION CHECKSTOPS WITH STRAINERS AND WALL SUPPORT. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET
48 180 81 212	FLOOF	R DRAIN R SINK	81	2.0 3.0	162 - 6 - 62 2.0	-	-	PRESSURE RE PRESS	DUCING VALVE	IILDING ENTRANCE	- PSI 60 PSI	(MIXING VALVE			1/2"	1/2"	BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET
256 300 600 390	SINK (DOM.	UNIT) CLOTHES WASHER	12 2	3.0 3.0	36 2.0 6 4.0	24 8	BU	ILDING STATIC I	BUILDING PRESSURE HEIGHT	INTERNAL PRESSURE LOSS			WHA	WATER			VARIES		ZURN NO. Z1700 SHOKTROL WATER HAMMER ARRESTOR. STAINLESS STEEL
1380 510	HOSE BATHT	BIBB	31 2	2.0	- 1.0 4 4.0	31 8	34 PR	4 HEIGHT	X 0.434 = RED AT FIXTURE [.]		14.80 PSI			ARRESTOR					
		ING FOUNTAIN CE SINK	6	0.5	3 0.5 6 3.0	3 6	FLL	JSH VALVE: JSH TANK:			25 PSI 8 PSI	(RD XY	ROOF/ OVERFLOW DRAIN	SEE PLANS				WATTS DRAINAGE RD-260 COMBINATION ROOF DRAIN/OVERFLOW WITH EPOXY COATED CAST IRON DRAIN BODIES, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARDS, 4" HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOMES AND NO HUB OUTLET. X = BLDG NO., Y = RD NO.
					466 GPM	369 112	BU	ILDING TOTAL L	OSS: AVAILABLE P	RESSURE FOR FRICTION LOSS	40 PSI	(JS 1	JANITOR SINK	3"	2"	3/4"	3/4"	FLORESTONE NO. MSR-2424 24"X24" MOLDED ONE-PIECE MOP RECEPTOR WITH CHICAGO FAUCETS NO. 445-VBRRCF WALL-MOUNTED MANUAL SINK FAUCET. VANDAL-PROOF RIGID SPOUT WITH VACUUM BREAKER.
							TOTAL MAX AL	LENGTH 1250 LOWABLE FRC	FT X F 1.2 = TOTAL EQU TION LOSS PER 100 FT	JILVALENT LENGTH (T.E.L.) 150	00 FT	(HB 1	HOSE BIBB			3/4"		WOODFORD B24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS. PROVIDE B24BX ACCESS PANEL.
							USE [1.80 PSI LOS	S PER 100 FT				HB	HOSE BIBB			3/4"		WOODFORD Y24 AT STAND PIPES. BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER & ROUGH CHROME FINISH FO
						NA	TURAL	GAS PIP	E SIZING S	CHEDULE (8" W.	.C.)		FD	FLOOR	2"	1 1/2"	тр		ZURN NO. ZN415-2NH-5B-P CAST IRON BODY, COMPLETE WITH 5" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION
FIXTURE UNITS	ZING/SELE		STANDARD		GAS LOADS: 30 PIPE SIZE	00 CFH, TDL = 350'	1/2"	3/4"	1" 1¼"	11/2" 2"	2½" 3" 4"			DRAIN		1-1/2"	IP		AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
1 - 11		A			CFH @ 350'	\sim	25	52	99 204	307 591	943 1668 3404		2	FLOOR DRAIN	3"	2"	TP		NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
12 - 32 33 - 60		B			· · · · · · · · · · · · · · · · · · ·		F	PLUMBIN	IG FIXTURE	SCHEDULE			FD 3	FLOOR DRAIN	6"	3"			ZURN NO. ZN415-6IP-10B CAST IRON BODY, COMPLETE WITH 8" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL
61 - 113		D			MARK	FIXTURE S	or W	V CW	/ HW SHO	D OWER STALL, FOLD DOWN SEA	DESCRIPTION		FD 4	FLOOR DRAIN	2"	1-1/2"			ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
114 - 154 155 - 330		F			SH 1A	SHOWER HEAD (ACCESS. INTERIOR)	FD	3/4'	ARC PBI SHC ' 3/4" HEL DIV	CHITECT. PLUMBING CONTRAC H-HL-QD-PSO ZENITH BUILT-IN OWERHEAD, HAND-SHOWER A LD SHOWER HEAD, WITH 24" ST 'ERTER VALVE, AIR-CONTROL \$	STOR TO PROVIDE ACORN 536ADA- SHOWERS, FLANGED SSEMBLY WITH FLEX HOSE HAND- TAINLESS STEEL ADA GRAB BAR, SINGLE TEMPERATURE METERING		AD 1	AREA DRAIN	3"				ZURN NO. ZN511 CAST IRON BODY, COMPLETE WITH HEAVY DUTY 9" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL. CONNECT TO STORM DRAIN.
									VAL SET CO	LVE, BRADLEY S59-4016 MIXING T OUTLET TEMPERED WATER T MPLIANT. 1.6 GPM.	G VALVE FOR HOT & COLD INLET, TO 108 DEG F. CBC ACCESS			DRINKING FOUNTAIN (ACCESS.)	2"	1-1/2"	1/2"		HAWS 1119.14/BP32/1920/6469 WALL-HUNG 14 GA. STAINLESS STEEL, VANDAL RESISTANT, HIGH-LOW DRINKING FOUNTAIN WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL, AND DROP TRAY. SEE ARCH. SHEETS FOR MOUNTING HEIGHT, CBC COMPLIANT
						3							BT	BATHTUB	FS		3/4"	3/4"	FERNO IIIE MODEL 306 WHIRLPOOLTUB, 18 GA STAINLESS STEEL, 36 GALLON TUB, 5 FOOT FILL HOSE, INTEGRAL PUMP AND MOTOR. DRAIN TO FLOOR SINK
												(WB		2"	1-1/2"	3/4"	3/4"	SPECIALTY PRODUCTS #OB501 RECESSED METAL WASHING MACHINE OUTLE BOX WITH COPPER SWEAT VALVES AND LEFT OR RIGHT OUTLET.
														ICE MAKER			1/2"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
														ICE MAKER			3/4"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
												(TRAP PRIMER			1/2"		MIFAB #MR-500-NPB PRESSURE ACTIVATED TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLET BEHIND ACCESS PANEL. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL. UP TO 6 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL
												(TP 2	TRAP PRIMER			3/4"		MIFAB #MI-100 ELECTRONIC TRAP PRIMER VALVE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLETE BEHIND ACCESS PANEL. SEE DETAIL 12/P6. FOR MOUNTING DETAIL. UP TO 30 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. COORDINATE WITH ELECTRICAL FOR VOLTAGE.
												(FS 1	FLOOR SINK	2"	1-1/2"	TP		ZURN NO. ZN-1900-KC-32 COATED CAST IRON WITH ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP, 6" DEEP. DOUBLE DRAINAGE. NO HUB OUTLET AND DOME STRAINER, 1/2" GRATE.

	WATER HEATER	RSCHEDULE				PLUMBIN	G FIXTI	JRE SCHEDULE
SERVICE TYPE	TANK SIZE (GAL) FUEL INPUT RECOVERY INLET OU CAPACITY RATE @80°F TEMP. TE (MBH) (GPH) °F		OPER. WT.(LBS)	MARK FIXTUR	RE S or W	V CW	HW	DESCRIPTION
B DOM. HOT WATER TANK	120 GAS 300 436 60 4	VOLIS PHASE HERIZ 40 460 3 60	43.3 1850 PROVIDE CONCENTRIC VENT KIT. SEE DETAIL 16 ON SHEET P6.1 FOR ANCHORAGE.	WC WATE 1 CLOSE	R 3"	2" 1-1/2	"	KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET SEAT
				WC WATE 2 CLOSE (ACCES	R ET 3" (S.)	2" 1-1/2	"	KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET
SERVICE TY			REMARKS					AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA
B DOM. HOT WATER VERTICAL	L, IN-LINE - 10 20 270 3300	115/1/60 14.5	PROVIDE AQUA STAT TO START AT 120 DEGREES AND STOP AT 140 DEGREES. SEE DETAIL 16 ON SHEET P6.1 FOR ANCHORAGE.	L LAVATO (ACCES	2" S.) 2"	1-1/2" 1/2"		FAUCETS NO. EVR-A12A-11ABCP SENSOR FAUCET. ADJUSTED TO STAY OPEI 10 SECONDS WITH (0.5 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. JAY R SMITH SERIES 0700 CARRIER, SEE ARCH. SHEETS FOR MOUNTING HEIGHT.
								AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO
				L LAVATO 2 CAVATO (STAF ACCES	RY F, 2" S.)	1-1/2" 1/2"	1/2"	FAUCETS NO. 2200-4E39VPABCP LEVER HANDLE FAUCET WITH (0.35 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP AND SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR
B DOM. HOT WATER	1 6.4 18" 12"	26 SEE DETAIL 16 ON SHEET P	P6.1 FOR ANCHORAGE.	UURINA	L 2"	2" 3/4"		MOUNTING DETAIL. KOHLER "BARDON" NO. K-4991-ERSS WALL-HUNG URINAL, 0.125 GPF, VITREOUS CHINA (ADA) WITH KOHLER "WAVE" K-10668-SV 0.125 GPF EXPOSE BATTERY-POWERED SENSOR FLUSH VALVE PROVIDE IR SMITH #0600
					S.) 2			SERIES URINAL SUPPORTS. PROVIDE WALL CLEANOUTS ABOVE EACH URINAL. SEE DETAIL 13/P6.1 FOR MOUNTING DETAIL. ELKAY NO. LRAD131655 SINGLE BOWL DROP-IN ADA SINK. 13"X16"X5-1/2" 18
	THERMOSTATIC MIXIN	G VALVE SCHEDU	ULE	S SINK (ACCES)	S.) 2"	1-1/2" 1/2"	1/2"	GAUGE 304 STAINLESS STEEL BOWL WITH CENTER DRAIN. 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 526-317ABCP DECK-MOUNTED MANUAL SINK FAUCET WITH 4" FIXED CENTERS.
SERVICE	SIZE (INCH) PRESSURE DROP (PSI)	REMARKS E: PLUMBING FIXTURES. SINGLE VALVE, MIN.	N. FLOW RATE 10 GPM. MAX. 216 GPM. LEAD FREE MIXING VALVE, PRESSURE GAUGE, SET TO DELIVER 120°F HW.	SH SH HEAD	ER FD	3/4"	3/4"	SHOWER STALL DESIGN BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536-MV, ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET
DOM. HOT WATER	PROVIE	E REDUCER & INCREASE FITTING AS RÉQUIR	IIRED. SEE DETAIL 16 ON SHEET P6.1 FOR ANCHORAGE.	SH SHOW		1/2"	1/2"	ACORN 410B-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304
				2 (EXTERI	OR)			ON/OFF PUSHBUTTON. ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304
E	WASTE & WATER FIXTURE	UNITS	WATER CALCULATIONS	SH HEAD 3 (ACCES EXTERIO	SS. FD CR) CR)	1/2"	1/2"	STAINLESS STEEL SHOWER PANEL WITH ADA COMPLIANT CONTROL VALVE, HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK- DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. PROVIDE PADDEE SEAT WHERE SHOWN ON PLANS.
IZING ERTICAL PIPING)	FIXTURE VASTE QUANITY FIXTURE UNITS	WATER TOTAL FIXTURE UNITS TOTAL	BUILDING FIXTURE UNITS 369 = 121 GPM	SH SHOW	ER) FD	3/4"	3/4"	SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS, DESIGNED BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 538ADA-PBH-HL- QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND- SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24"
FU LENGTH (FT.)	WASTE CLOSET - FLUSH TANK-3.0WATER CLOSET - FLUSH VALVE344.0	- 3.0 - 136 5.0 170	BUILDING EXTERNAL PRESSURE LOSS MAX. 75 PSI			funda	m	STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, TEMPERATURE- PRESSURE BALANCING MIXING VALVE. SET OUTLET TEMPERED WATER TO 108 DEG F. CBC ACCESS COMPLIANT. 1.6 GPM.
8 60 24 120	URINAL - FLUSH VALVE62.0LAVATORY331.0	12 4 24 33 1.0 33	- WATER METER 4 PSI - BACK FLOW PREVENTER 11 PSI	MV 1 MIXIN VALV	G	2"	2"	COMBINATION CHECKSTOPS WITH STRAINERS AND WALL SUPPORT. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 120°F. 10.0 GPM MINIMUM FLOW.
48 180 81 212	FLOOR DRAIN 81 2.0 FLOOR SINK 2 3.0 SHOWER 31 2.0	162 - 6 - 62 2.0	PRESSURE REDUCING VALVE PRESSURE AVAILABLE AT BUILDING ENTRANCE 60 PSI	MV 2 MIXIN VALV	G E	1/2"	1/2"	BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 110°F. 0.35 GPM MINIMUM FLOW.
256 300 600 390	SINK 12 3.0 (DOM. UNIT) CLOTHES WASHER 2 3.0	36 2.0 24 6 4.0 8	BUILDING INTERNAL PRESSURE LOSS BUILDING STATIC PRESSURE HEIGHT	WHA WATEF	R	VARIE	s	ZURN NO. Z1700 SHOKTROL WATER HAMMER ARRESTOR. STAINLESS STEEL
1380 510	HOSE BIBB31-BATHTUB22.0	- 1.0 31 4 4.0 8	34 HEIGHT X 0.434 = 14.80 PSI PRESSURE REQUIRED AT FIXTURE:		OR			WATTS DRAINAGE RD-260 COMBINATION ROOF DRAIN/OVERFLOW WITH
	DRINKING FOUNTAIN 6 0.5 SERVICE SINK 2 3.0	3 0.5 3 6 3.0 6 400 200	FLUSH VALVE:25PSIFLUSH TANK:8PSI	RD ROOF VERFLO OVERFLO DRAIN	OW SEE PLANS	S		EPOXY COATED CAST IRON DRAIN BODIES, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARDS, 4" HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOMES AND NO HUB OUTLET. X = BLDG NO., Y = RD NO.
		466 369 GPM 112	BUILDING TOTAL LOSS: 40 PSI AVAILABLE PRESSURE FOR FRICTION LOSS 40	JS JANITO SINK	R _{3"}	2" 3/4"	3/4"	FLORESTONE NO. MSR-2424 24"X24" MOLDED ONE-PIECE MOP RECEPTOR WITH CHICAGO FAUCETS NO. 445-VBRRCF WALL-MOUNTED MANUAL SINK FAUCET. VANDAL-PROOF RIGID SPOUT WITH VACUUM BREAKER.
			TOTAL LENGTH 1250 FT X F 1.2 = TOTAL EQUILVALENT LENGTH (T.E.L.) 1500 FT	HB HOSE BIBB		3/4"		WOODFORD B24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POUSHED CHROME INDOORS, PROVIDE B24BX ACCESS PANEL
			USE 1.80 PSI LOSS PER 100 FT	HB HOSE		2///"		WOODFORD Y24 AT STAND PIPES. BRASS FAUCET, SHIELDED LOOSE KEY
				2 BIBB				OUTDOORS.
RRESTER SIZING/	SELECTION TABLE	GAS LOADS: 300 CFH, TDL = 350'	TURAL GAS PIPE SIZING SCHEDULE (8" W.C.)	FD 1 FLOOF DRAIN	R 2"	1-1/2" TP		ZURN NO. ZN415-2NH-5B-P CAST IRON BODY, COMPLETE WITH 5" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
FIXTURE UNITS	CROSS REF PDI STANDARD	PIPE SIZE CFH @ 350'	1/2" 3/4" 1" 1½" 2" 2½" 3" 4" 25 52 99 204 307 591 943 1668 3404	FD FLOOF DRAIN	R 3"	2" TP		ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
1 - 11	B			FD FLOOF	R	21		ZURN NO. ZN415-6IP-10B CAST IRON BODY, COMPLETE WITH 8" ROUND
33 - 60	C	} }	PLUMBING FIXTURE SCHEDULE	3 DRAIN				MOUNTING DETAIL
61 - 113	D	≻ MARK FIXTURE S or ↓	DI W V CW HW DESCRIPTION	FD FLOOF 4 FLOOF DRAIN	R 2"	1-1/2"		NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
155 - 330	F	SHOWER HEAD (ACCESS. INTERIOR)	FD 3/4" 3/4" PBH-HL-QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND-SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, AIR-CONTROL SINGLE TEMPERATURE METERING	AD AREA DRAIN	3"			ZURN NO. ZN511 CAST IRON BODY, COMPLETE WITH HEAVY DUTY 9" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL. CONNECT TO STORM DRAIN.
			VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET TEMPERED WATER TO 108 DEG F. CBC ACCESS COMPLIANT. 1.6 GPM.		NG AIN 2" S.)	1-1/2" 1/2"		HAWS 1119.14/BP32/1920/6469 WALL-HUNG 14 GA. STAINLESS STEEL, VANDAL RESISTANT, HIGH-LOW DRINKING FOUNTAIN WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL, AND DROP TRAY. SEE ARCH. SHEETS FOR MOUNTING
				BT BATHTI	IB ES	3/4"	3/4"	FERNO IIIE MODEL 306 WHIRLPOOLTUB, 18 GA STAINLESS STEEL, 36 GALLON
		<u>/3</u>			10			TUB, 5 FOOT FILL HOSE, INTEGRAL PUMP AND MOTOR. DRAIN TO FLOOR SIN
					IE 2"	1-1/2" 3/4"	3/4"	SPECIALTY PRODUCTS #OB501 RECESSED METAL WASHING MACHINE OUTLE BOX WITH COPPER SWEAT VALVES AND LEFT OR RIGHT OUTLET.
				IMBICE1ICE1BOX	२	1/2"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
				IMBICE2MAKEFBOX		3/4"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
				TP TRAP PRIME	R	1/2"		MIFAB #MR-500-NPB PRESSURE ACTIVATED TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLET BEHIND ACCESS PANEL. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL. UP TO (DRAINS, SEE PLANS FOR NUMBER OF DRAINS. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL.
				TP 2 PRIME	R	3/4"		MIFAB #MI-100 ELECTRONIC TRAP PRIMER VALVE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLETE BEHIND ACCESS PANEL. SEE DETAIL 12/P6. FOR MOUNTING DETAIL. UP TO 30 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. COORDINATE WITH ELECTRICAL FOR VOLTAGE.
					2"	1-1/2" TP		ZURN NO. ZN-1900-KC-32 COATED CAST IRON WITH ACID RESISTANT PAINTER INTERIOR, 12" SQUARE TOP, 6" DEEP. DOUBLE DRAINAGE. NO HUB OUTLET

	WATER HEATER	R SCHEDULE							PLUN	/IBING F	FIXTU	RE SCHEDULE
ON SERVICE T	TYPE TANK SIZE FUEL INPUT RECOVERY INLET OU (GAL) FUEL CAPACITY RATE @80°F TEMP. TE	JTLET ELECTRICAL	OPER. WT.(LBS)	REMARKS		MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
R A178 DOM. HOT WATER TA	ANK 120 GAS 300 436 60	Ye VOLTS PHASE HERTZ 140 460 3 60	FLA Y 43.3 1850	PROVIDE CONCENTRIC VENT KIT. SEE DETAIL 16 ON SHEET P6.1 FOR ANCHORAGE.		WC 1	WATER CLOSET	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET SEAT
						WC 2	WATER CLOSET (ACCESS.)	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET SEAT. CBC COMPLIANT FOR ACCESS.
ON SERVICE	TYPE EFFICIENCY FLOW RATE TDH WATTS RPM		REMARKS									AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO
R A178 DOM. HOT WATER VE	ERTICAL, IN-LINE - 10 20 270 3300	0 115/1/60 14.5	PROVIDE AQUA STAT ANCHORAGE.	TO START AT 120 DEGREES AND STOP AT 140 DEGREES. SEE DETAIL 16 ON SHEET P6.1 FOR	२	L 1	LAVATORY (ACCESS.)	2"	1-1/2"	1/2"		FAUCETS NO. EVR-A12A-11ABCP SENSOR FAUCET. ADJUSTED TO STAY OPEN 10 SECONDS WITH (0.5 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. JAY R SMITH SERIES 0700 CARRIER, SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
	EXPANSION TAN	IK SCHEDULE				L	LAVATORY		4.4701	4/01	4/01	AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 2200-4E39VPABCP LEVER HANDLE FAUCET WITH (0.35 GPM)
ON SERVICE	QUANTITY TOTAL VOL.(GAL) HEIGHT DIAMETER OF	PERATING NT.(LBS.)				2	ACCESS.)	2"	1-1/2"	1/2"	1/2"	COMPRESSION WALL STOP AND SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
A178 DOM. HOT WATER	1 6.4 18" 12"	26 SEE DETAIL 16 ON SHEET P6.	1 FOR ANCHORAGE.				URINAL (ACCESS.)	2"	2"	3/4"		VITREOUS CHINA (ADA) WITH KOHLER "WAVE" K-10668-SV 0.125 GPF EXPOSE BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE JR. SMITH #0600 SERIES URINAL SUPPORTS. PROVIDE WALL CLEANOUTS ABOVE EACH URINAL. SEE DETAIL 13/P6.1 FOR MOUNTING DETAIL.
	THERMOSTATIC MIXIN	G VALVE SCHEDU	LE			S 1	SINK (ACCESS.)	2"	1-1/2"	1/2"	1/2"	ELKAY NO. LRAD131655 SINGLE BOWL DROP-IN ADA SINK. 13"X16"X5-1/2" 18 GAUGE 304 STAINLESS STEEL BOWL WITH CENTER DRAIN. 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 526-317ABCP DECK-MOUNTED MANUAL SINK FAUCET WITH 4" FIXED CENTERS.
ON SERVICE	SIZE (INCH) PRESSURE DROP (PSI)	REMARKS				SH	SHOWER	FD		3/4"	3/4"	SHOWER STALL DESIGN BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536-MV, ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE,
R A178 DOM. HOT WATER	2" INLETS, 2" OUTLET 5 SERVIC PROVID	CE: PLUMBING FIXTURES. SINGLE VALVE, MIN. F DE REDUCER & INCREASE FITTING AS REQUIRE	LOW RATE 10 GPM. MA D. SEE DETAIL 16 ON S	AX. 216 GPM. LEAD FREE MIXING VALVE, PRESSURE GAUGE, SET TO DELIVER 120°F HW. SHEET P6.1 FOR ANCHORAGE.		SH	SHOWER		·····			BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET TEMPERED WATER TO 108 DEG F. 1.6 GPM.
						2	(EXTERIOR)	ΓU		1/2	1/2	ACORN 410BADA-W SHOWER PANEL, SINGLE TEMP 1.6 GPM SHOWER WITH ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL WITH ADA COMPLIANT CONTROL VALVE
	WASTE & WATER FIXTURE	UNITS		WATER CALCULATIONS		3	HEAD (ACCESS. EXTERIOR)	FD		1/2"	1/2"	HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK- DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. PROVIDE PADDED SEAT WHERE SHOWN ON PLANS. SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS, DESIGNED BY
AL & VERTICAL PIPING) MAX. FU LENGTH	FIXTURE QUANITY FIXTURE UNITS WASTE CLOSET - FLUSH TANK - 3.0	TOTAL FIXTURE TOTAL - 3.0 -	BUILDING FIXTU	URE UNITS 369 = 121 GPM BUILDING EXTERNAL PRESSURE LOSS		SH 4	SHOWER HEAD (ACCESS. INTERIOR)	FD		3/4"	3/4"	ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 538ADA-PBH-HL- QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND- SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, TEMPERATURE- PRESSURE BALANCING MIXING VALVE. SET OUTLET TEMPERED WATER TO
8 60	WATER CLOSET - FLUSH VALVE344.0URINAL - FLUSH VALVE62.0LAVATORY331.0	136 5.0 170 12 4 24 33 1.0 33	MAX. 75 PSI - WATER MET	I ITER 4 PSI			MIXING VALVE			2"	2"	108 DEG F. CBC ACCESS COMPLIANT. 1.6 GPM. BRADLEY LW-985-SW-LF THERMOSTATIC WATER MIXING VALVE, INTEGRAL COMBINATION CHECKSTOPS WITH STRAINERS AND WALL SUPPORT. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET
24 120 48 180 81 212	FLOOR DRAIN 81 2.0 FLOOR SINK 2 3.0	162 - - 6 - -	 BACK FLOW PRESSURE PRE 	W PREVENTER 11 PSI E REDUCING VALVE - PSI ESSURE AVAILABLE AT BUILDING ENTRANCE 60 PSI	_					1/2"	1/2"	TEMPERATURE AT 120°F. 10.0 GPM MINIMUM FLOW. BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET
256 300	SHOWER 31 2.0 SINK 12 3.0 (DOM. UNIT) CLOTHES WASHER 2 3.0	62 2.0 62 36 2.0 24 6 4.0 8	BUILDING STATI	BUILDING INTERNAL PRESSURE LOSS		2 WHA	WATER					ZUBN NO. Z1700 SHOKTROL WATER HAMMER ARRESTOR, STAINLESS STEEL
1380 510	- HOSE BIBB 31 - BATHTUB 2 2.0	- <u>1.0</u> <u>31</u> 4 <u>4.0</u> 8	34 HEIGH	GHT X 0.434 = 14.80 PSI	-	1	ARRESTOR			VARIES		CONSTRUCTION. WATER CONNECTION DEPENDS ON FIXTURE CAPACITY
	DRINKING FOUNTAIN 6 0.5 SERVICE SINK 2 3.0	3 0.5 3 6 3.0 6	PRESSURE REG FLUSH VALVE: FLUSH TANK:	QUIRED AT FIXTURE: 25 PSI 8 PSI		RD XY	ROOF/ OVERFLOW DRAIN	SEE PLANS				WATTS DRAINAGE RD-260 COMBINATION ROOF DRAIN/OVERFLOW WITH EPOXY COATED CAST IRON DRAIN BODIES, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARDS, 4" HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOMES AND NO HUB OUTLET. X = BLDG NO., Y = RD NO.
		466 369 GPM 112	BUILDING TOTA	AL LOSS: 40 PSI AVAILABLE PRESSURE FOR FRICTION LOSS		JS 1	JANITOR SINK	3"	2"	3/4"	3/4"	FLORESTONE NO. MSR-2424 24"X24" MOLDED ONE-PIECE MOP RECEPTOR WITH CHICAGO FAUCETS NO. 445-VBRRCF WALL-MOUNTED MANUAL SINK FAUCET. VANDAL-PROOF RIGID SPOUT WITH VACUUM BREAKER.
			TOTAL LENGTH 125 MAX ALLOWABLE FF	50 FT X F 1.2 = TOTAL EQUILVALENT LENGTH (T.E.L.) 1500 FT RCITION LOSS PER 100 FT : 1.93		HB 1	HOSE BIBB			3/4"		WOODFORD B24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS. PROVIDE B24BX ACCESS PANEL.
			USE 1.80 PSIL	LOSS PER 100 FT		HB 2	HOSE BIBB			3/4"		WOODFORD Y24 AT STAND PIPES. BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER & ROUGH CHROME FINISH FO OUTDOORS.
R ARRESTER SIZI	NG/SELECTION TABLE	NATU	IRAL GAS PI	PIPE SIZING SCHEDULE (8" W.C.)		(FD)	FLOOR DRAIN	2"	1-1/2"	ТР		ZURN NO. ZN415-2NH-5B-P CAST IRON BODY, COMPLETE WITH 5" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION
FIXTURE UNITS	CROSS REF PDI STANDARD	GAS LOADS: 300 CFH, TDL = 350' PIPE SIZE	1/2" 3/4"	1" 1¼" 1½" 2" 2½" 3" 4"		FD	FLOOR	3"	2"	тр		ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION
1 - 11	Α	CFH @ 350'	25 52	99 204 307 591 943 1668 3404		2 FD		Ū	_			AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
33 - 60	С		PLUMB	BING FIXTURE SCHEDULE		3	DRAIN	6"	3"			NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL
61 - 113 114 - 154	D E	MARK FIXTURE S or W		CW HW DESCRIPTION SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS DESIGNED BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536ADA- PBH-HL-OD-PSO ZENITH BUILT-IN SHOWERS, FLANGED		4 FD	FLOOR DRAIN	2"	1-1/2"			NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
155 - 330	F	SH SH IA IA SH SH HEAD (ACCESS. INTERIOR) FD	3	3/4" 3/4" SHOWERHEAD, HAND-SHOWER ASSEMBLY WITH FLEX HOSE HAND- HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLIET TEMPERED WATER TO 10% DEC F. CRC ACCESS		AD 1	AREA DRAIN	3"				ZURN NO. ZN511 CAST IRON BODY, COMPLETE WITH HEAVY DUTY 9" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL. CONNECT TO STORM DRAIN.
				COMPLIANT. 1.6 GPM.		DF 1	DRINKING FOUNTAIN (ACCESS.)	2"	1-1/2"	1/2"		HAWS 1119.14/BP32/1920/6469 WALL-HUNG 14 GA. STAINLESS STEEL, VANDAL RESISTANT, HIGH-LOW DRINKING FOUNTAIN WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL, AND DROP TRAY. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT.
		3				BT 1	BATHTUB	FS		3/4"	3/4"	FERNO IIIE MODEL 306 WHIRLPOOLTUB, 18 GA STAINLESS STEEL, 36 GALLON TUB, 5 FOOT FILL HOSE, INTEGRAL PUMP AND MOTOR. DRAIN TO FLOOR SINK
						WB 1	WASHING MACHINE BOX	2"	1-1/2"	3/4"	3/4"	SPECIALTY PRODUCTS #OB501 RECESSED METAL WASHING MACHINE OUTLE BOX WITH COPPER SWEAT VALVES AND LEFT OR RIGHT OUTLET.
						IMB 1	ICE MAKER BOX			1/2"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
						IMB 2	ICE MAKER BOX			3/4"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX WITH COPPER SWEAT VALVES.
					-	TP 1	TRAP PRIMER			1/2"		MIFAB #MR-500-NPB PRESSURE ACTIVATED TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLET BEHIND ACCESS PANEL. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL. UP TO 6 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL.
						TP 2	TRAP PRIMER			3/4"		MIFAB #MI-100 ELECTRONIC TRAP PRIMER VALVE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLETE BEHIND ACCESS PANEL. SEE DETAIL 12/P6. FOR MOUNTING DETAIL. UP TO 30 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. COORDINATE WITH ELECTRICAL FOR VOLTAGE.
						FS 1	FLOOR SINK	2"	1-1/2"	TP		ZURN NO. ZN-1900-KC-32 COATED CAST IRON WITH ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP, 6" DEEP. DOUBLE DRAINAGE. NO HUB OUTLET

ΓΙΟΝ	SERVICE	SIZE (INCH)	PRESSURE DROP (PSI)	REMARKS
R A178	DOM. HOT WATER	2" INLETS, 2" OUTLET	5	SERVICE: PLUMBING FIXTU PROVIDE REDUCER & INCP

WASTE & WATI	ER FIX	TURE	UNITS			
			WATER			
FIXTURE	QUANITY	FIXTURE UNITS	TOTAL	FIXTURE UNITS	TOTAL	
WASTE CLOSET - FLUSH TANK	-	3.0	-	3.0	-	
WATER CLOSET - FLUSH VALVE	34	4.0	136	5.0	170	
URINAL - FLUSH VALVE	6	2.0	12	4	24	
LAVATORY	33	1.0	33	1.0	33	
FLOOR DRAIN	81	2.0	162	-	-	
FLOOR SINK	2	3.0	6	-	-	
SHOWER	31	2.0	62	2.0	62	
SINK	12	3.0	36	2.0	24	
(DOM. UNIT) CLOTHES WASHER	2	3.0	6	4.0	8	
HOSE BIBB	31	-	-	1.0	31	
BATHTUB	2	2.0	4	4.0	8	
DRINKING FOUNTAIN	6	0.5	3	0.5	3	
SERVICE SINK	2	3.0	6	3.0	6	
TOTAL			466		369	
				GPM	112	

WATER CALCU

SCHEDU	JLE													PLU	MBING	FIXTL	IRE SCHEDULE
ET	ELECTRICAL	-		PER.		REM	ARKS			_	MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
VOLTS PHA 460 3	ASE HEF 3 6	RTZ FLA 50 43.3	1	350 PF	ROVIDE CONCE	.NTRIC VENT KIT. SEE	DETAIL 16	ON SHEET P6.1 F	OR ANCHORAGE.		WC 1	WATER CLOSET	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET
											WC 2	WATER CLOSET (ACCESS.)	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET
		ΓING		/9						_							AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA
115/1/60	WT.(LB	S.)		A STAT TO S	TART AT 120 DE	 EGREES AND STOP #	T 140 DEG	REES. SEE DETAIL	. 16 ON SHEET P6.1 FOR			LAVATORY (ACCESS.)	2"	1-1/2"	1/2"		FAUCETS NO. EVR-A12A-11ABCP SENSOR FAUCET. ADJUSTED TO STAY OPEI 10 SECONDS WITH (0.5 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. JAY R
			IORAGE.														SMITH SERIES 0700 CARRIER, SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
SCHED											L	LAVATORY					AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 2200-4E39VPABCP LEVER HANDLE FAUCET WITH (0.35 GPM)
RATING	REMARKS									_	2	ACCESS.)	2"	1-1/2"	1/2"	1/2"	FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP AND SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL
26 SEE DET	TAIL 16 ON S	HEET P6.1 FOR	ANCHOR	AGE.						_	U	URINAL	2"	2"	3/4"		KOHLER "BARDON" NO. K-4991-ERSS WALL-HUNG URINAL, 0.125 GPF, VITREOUS CHINA (ADA) WITH KOHLER "WAVE" K-10668-SV 0.125 GPF EXPOSE BATTERY-POWERED SENSOR FLUSH VALVE_PROVIDE_IR_SMITH #0600
											1	(ACCESS.)		_			SERIES URINAL SUPPORTS. PROVIDE WALL CLEANOUTS ABOVE EACH URINAL. SEE DETAIL 13/P6.1 FOR MOUNTING DETAIL.
	SCHE	EDULE										SINK (ACCESS.)	2"	1-1/2"	1/2"	1/2"	ELKAY NO. LRAD131655 SINGLE BOWL DROP-IN ADA SINK. 13"X16"X5-1/2" 18 GAUGE 304 STAINLESS STEEL BOWL WITH CENTER DRAIN. 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 526-317ABCP DECK-MOUNTED MANUAL SINK FAUCET WITH 4" FIXED CENTERS
MARKS											SH SH	SHOWER		\sim			SHOWER STALL DESIGN BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536-MV, ZENITH BUILT-IN SHOWERS, FLANGED
PLUMBING FIXTURES. S REDUCER & INCREASE	SINGLE VALV	/E, MIN. FLOW F REQUIRED. SEI	RATE 10 G E DETAIL	PM. MAX. 21 16 ON SHEE	16 GPM. LEAD F T P6.1 FOR ANC	REE MIXING VALVE, F CHORAGE.	PRESSURE	GAUGE, SET TO D	DELIVER 120°F HW.			HEAD	FD		3/4"	3/4"	SHOWERHEAD, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET TEMPERED WATER TO 108 DEG F. 1.6 GPM.
											SH 2	SHOWER HEAD (EXTERIOR)	FD		1/2"	1/2"	ACORN 410B-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL, SINGLE TEMP 1.6 GPM SHOWER WITH ON/OFE PLISHBUTTON
												SHOWER					ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304
INITS					WAT	ER CALCU	LATIC	NS				HEAD (ACCESS. EXTERIOR)	FD		1/2"	1/2"	HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK- DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. PROVIDE PADDEE SEAT WHERE SHOWN ON PLANS.
TOTAL FIXTURE			BUILDIN	G FIXTURE U	INITS 369	= 121 GPM					SH	SHOWER	50		0/48	0/4	SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS, DESIGNED BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 538ADA-PBH-HL- QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND-
- 3.0					BUIL	DING EXTERNAL PRE	SSURE LO	SS		(4	(ACCESS. INTERIOR)	FD		3/4*	3/4*	SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, TEMPERATURE- PRESSURE BALANCING MIXING VALVE. SET OUTLET TEMPERED WATER TO 108 DEG F. CBC ACCESS COMPLIANT. 1.6 GPM.
136 5.0 12 4	24		MAX. 73	ER METER					4 PSI						2"	2"	BRADLEY LW-985-SW-LF THERMOSTATIC WATER MIXING VALVE, INTEGRAL COMBINATION CHECKSTOPS WITH STRAINERS AND WALL SUPPORT.
33 1.0 162 -	-		- BAC - PRE		EVENTER UCING VALVE		105		11 PSI - PSI								TEMPERATURE AT 120°F. 10.0 GPM MINIMUM FLOW.
6 - 62 2.0	- 62			PRESSU					60 PSI			MIXING VALVE			1/2"	1/2"	BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 110°F. 0.35 GPM MINIMUM FLOW.
36 2.0 6 4.0	24 8		BUILDIN	S STATIC PR	BUIL RESSURE HEIGH	DING INTERNAL PREA 	SSURE LOS	38			WHA	WATER			VARIES		ZURN NO. Z1700 SHOKTROL WATER HAMMER ARRESTOR. STAINLESS STEEL
- 1.0 4 4.0	31 8		34	HEIGHT X	0.434 =				14.80 PSI			ARRESTOR					CONSTRUCTION. WATER CONNECTION DEPENDS ON FIXTURE CAPACITY
3 0.5 6 3.0	3		FLUSH V	re require Alve:	ED AT FIXTURE:				25 PSI		RD XY	ROOF/ OVERFLOW DRAIN	SEE PLANS				WATTS DRAINAGE RD-260 COMBINATION ROOF DRAIN/OVERFLOW WITH EPOXY COATED CAST IRON DRAIN BODIES, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARDS, 4" HIGH INTERNAL STANDPIPE, SELF-LOCKING DOLYCTLINICENE DOMES AND NO LUC DI ST. X - RD NO
466	369		FLUSH T	ANK: G TOTAL LOS	SS:				8 PSI 40 PSI								FLORESTONE NO. MSR-2424 24"X24" MOLDED ONE-PIECE MOP RECEPTOR
GPM	112				AVAILA	BLE PRESSURE FOR	FRICTION I	LOSS				SINK	3"	2"	3/4"	3/4"	WITH CHICAGO FAUCETS NO. 445-VBRRCF WALL-MOUNTED MANUAL SINK FAUCET. VANDAL-PROOF RIGID SPOUT WITH VACUUM BREAKER.
		TO	TAL LENG	TH 1250 FT ABLE ERCITI	X F 1.2 = TOTA	L EQUILVALENT LEN(GTH (T.E.L.)) 1500 FT			HB	HOSE BIBB			3/4"		WOODFORD B24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS, PROVIDE B24BX ACCESS PANEL.
		US	E 1.80	PSILOSS	PER 100 FT												WOODFORD Y24 AT STAND PIPES, BRASS FAUCET, SHIELDED LOOSE KEY
											2	BIBB			3/4"		HANDLE, NON REMOVABLE VACUUM BREAKER & ROUGH CHROME FINISH FO OUTDOORS.
	١	NATURA	L GA	S PIPE	E SIZING	SCHEDUL	.E (8"	W.C.)			FD	FLOOR	2"	1-1/2"	TP		ZURN NO. ZN415-2NH-5B-P CAST IRON BODY, COMPLETE WITH 5" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION
GAS LOADS: 300 CFI	H, TDL = 350	' 1	/2"	3/4"	1"	11/4" 11/2"	2"	21/2"	3" 4"								
CFH @ 350'		2	25	52	99	204 307	591	943	1668 3404		FD 2	FLOOR DRAIN	3"	2"	TP		ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
			\sim	\sim		<u> </u>	\sim				FD	FLOOR	6"	3"			ZURN NO. ZN415-6IP-10B CAST IRON BODY, COMPLETE WITH 8" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP, SEE DETAIL 8/P6.1 FOR
			PLl	JMBIN	G FIXTU	RE SCHED	ULE				3	DRAIN					MOUNTING DETAIL
MARK FIX	IXTURE	S or W	V	CW	HW						FD 4	FLOOR DRAIN	2"	1-1/2"			ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
SH SH	HOWER					ARCHITECT. PLUM PBH-HL-QD-PSO ZI SHOWERHEAD, H/	BING CONT ENITH BUIL	TACTOR TO PROV T-IN SHOWERS, FL ER ASSEMBLY WIT	VIDE ACORN 536ADA- LANGED TH FLEX HOSE HAND-		AD	AREA					ZURN NO. ZN511 CAST IRON BODY, COMPLETE WITH HEAVY DUTY 9" ROUND
	CCESS. TERIOR)	FD		3/4"	3/4"	HELD SHOWER HE DIVERTER VALVE, VALVE, BRADLEY S SET OUTLET TEMF	AD, WITH 2 AIR-CONTF 559-4016 MI PERED WAT	A" STAINLESS STE ROL SINGLE TEMPI XING VALVE FOR I ER TO 108 DEG F.	EEL ADA GRAB BAR, ERATURE METERING HOT & COLD INLET, . CBC ACCESS			DRAIN	3"				MOUNTING DETAIL. CONNECT TO STORM DRAIN.
						COMPLIANT. 1.6 GF	PM.			}		DRINKING FOUNTAIN (ACCESS.)	2"	1-1/2"	1/2"		RESISTANT, HIGH-LOW DRINKING FOUNTAIN WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL, AND DROP TRAY. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT.
										,	BT	BATHTUB	FS		3/4"	3/4"	FERNO IIIE MODEL 306 WHIRLPOOLTUB, 18 GA STAINLESS STEEL, 36 GALLON
<u>/3</u>	3																TUB, 5 FOOT FILL HOSE, INTEGRAL PUMP AND MOTOR. DRAIN TO FLOOR SINK
											WB 1	WASHING MACHINE BOX	2"	1-1/2"	3/4"	3/4"	SPECIALTY PRODUCTS #OB501 RECESSED METAL WASHING MACHINE OUTLE BOX WITH COPPER SWEAT VALVES AND LEFT OR RIGHT OUTLET.
											IMB	ICE MAKER			1/2"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX
												BOX					
											2	MAKER BOX			3/4"		WITH COPPER SWEAT VALVES.
											ТР				1/2"		MIFAB #MR-500-NPB PRESSURE ACTIVATED TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLET BEHIND ACCESS PANEL SEE DETAIL 10/06 1 FOR MOUNTING DETAIL 10/07
																	DEFINE ACCEST AND SEE DETAIL 12/P0.1 FOR MOUNTING DETAIL UP TO E DRAINS, SEE PLANS FOR NUMBER OF DRAINS. SEE DETAIL 12/P6.1 FOR MOUNTING DETAIL.
												TRAP PRIMER			3/4"		MIFAB #MI-100 ELECTRONIC TRAP PRIMER VALVE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLETE BEHIND ACCESS PANEL. SEE DETAIL 12/P6. FOR MOUNTING DETAIL. UP TO 30 DRAINS. SEE PLANS FOR NUMBER OF
											FS	_					DRAINS. COORDINATE WITH ELECTRICAL FOR VOLTAGE.
												FLOOR SINK	2"	1-1/2"	TP		INTERIOR, 12" SQUARE TOP, 6" DEEP. DOUBLE DRAINAGE. NO HUB OUTLET

R SCHEDULE											PLU	MBING	FIXTL	JRE SCHEDULE
TLET ELECTRICA	L	OPER. WT.(LBS)		REMARKS				MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
°F VOLTS PHASE HE	RTZ FLA	1850		CENTRIC VENT KIT. SEE DETAIL	16 ON SHEET P6	.1 FOR ANCHORAGE.		WC	WATER CLOSET	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE, DROVIDE KOHLER K 4721 SC FLONGATED TO LET
								WC 2	WATER CLOSET (ACCESS.)	3"	2"	1-1/2"		KOHLER "HIGHCLIFF" NO. K-96057 ELONGATED FLOOR MOUNTED WATER CLOSET, 1.28 GPF, VITREOUS CHINA (ADA), ELONGATED BOWL, SIPHON JET WITH KOHLER "WAVE" K-10673-SV 1.28 GPF EXPOSED BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE KOHLER K-4731-SC ELONGATED TOILET
		EMARKS												AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO
115/1/60 14.	5 PROVIDE ANCHOR	AQUA STAT T AGE.	O START AT 120	DEGREES AND STOP AT 140 DE	GREES. SEE DE	TAIL 16 ON SHEET P6.1 FC	DR		LAVATORY (ACCESS.)	2"	1-1/2"	1/2"		FAUCETS NO. EVR-A12A-11ABCP SENSOR FAUCET. ADJUSTED TO STAY OPEI 10 SECONDS WITH (0.5 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. JAY R SMITH SERIES 0700 CARRIER, SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL.
IK SCHEDULE								L	LAVATORY (STAFF,	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD NO. 0355.012, WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 2200-4E39VPABCP LEVER HANDLE FAUCET WITH (0.35 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY
PERATING /T.(LBS.)								2	ACCESS.)					COMPRESSION WALL STOP AND SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. SEE DETAIL 14/P6.1 FOR MOUNTING DETAIL. KOHLER "BARDON" NO. K-4991-ERSS WALL-HUNG URINAL, 0.125 GPF.
26 SEE DETAIL 16 ON S	SHEET P6.1 FOR AN	CHORAGE.							URINAL (ACCESS.)	2"	2"	3/4"		VITREOUS CHINA (ADA) WITH KOHLER "WAVE" K-10668-SV 0.125 GPF EXPOSE BATTERY-POWERED SENSOR FLUSH VALVE. PROVIDE JR. SMITH #0600 SERIES URINAL SUPPORTS. PROVIDE WALL CLEANOUTS ABOVE EACH URINAL. SEE DETAIL 13/P6.1 FOR MOUNTING DETAIL.
G VALVE SCH	EDULE							S 1	SINK (ACCESS.)	2"	1-1/2"	1/2"	1/2"	ELKAY NO. LRAD131655 SINGLE BOWL DROP-IN ADA SINK. 13"X16"X5-1/2" 18 GAUGE 304 STAINLESS STEEL BOWL WITH CENTER DRAIN. 3 MOUNTING HOLES FOR CHICAGO FAUCETS NO. 526-317ABCP DECK-MOUNTED MANUAL SINK FAUCET WITH 4" FIXED CENTERS.
REMARKS		= 10 GPM_MA)	(216 GPM FAI		E GAUGE SET			SH 1	SHOWER HEAD	FD		3/4"	3/4"	SHOWER STALL DESIGN BY ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 536-MV, ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, BRADLEY S59-4016 MIXING VALVE FOR HOT & COLD INLET, SET OUTLET
DE REDUCER & INCREASE FITTING AS	REQUIRED. SEE DI	TAIL 16 ON SF	IEET P6.1 FOR A	NCHORAGE.			(SH	SHOWER	FD		1/2"	1/2"	ACORN 410B-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL, SINGLE TEMP 1.6 GPM SHOWER WITH
								2 SH	(EXTERIOR)					ON/OFF PUSHBUTTON. ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL WITH ADA COMPLIANT CONTROL VALVE,
UNIIS			WA	TER CALCULATI	ONS			3	(ACCESS. EXTERIOR)	FD		1/2"	1/2"	HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK- DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. PROVIDE PADDED SEAT WHERE SHOWN ON PLANS. SHOWER STALL, FOLD DOWN SEAT AND GRAB BARS, DESIGNED BY
TOTAL FIXTURE UNITS TOTAL - 3.0 - 126 5.0 170	BL		RE UNITS 36 BL	9 = 121 GPM JILDING EXTERNAL PRESSURE L	OSS			SH 4	SHOWER HEAD (ACCESS. INTERIOR)	FD		3/4"	3/4"	ARCHITECT. PLUMBING CONTRACTOR TO PROVIDE ACORN 538ADA-PBH-HL- QD-PSO ZENITH BUILT-IN SHOWERS, FLANGED SHOWERHEAD, HAND- SHOWER ASSEMBLY WITH FLEX HOSE HAND-HELD SHOWER HEAD, WITH 24" STAINLESS STEEL ADA GRAB BAR, DIVERTER VALVE, TEMPERATURE- PRESSURE BALANCING MIXING VALVE. SET OUTLET TEMPERED WATER TO 108 DEG F. CBC ACCESS COMPLIANT. 1.6 GPM.
12 4 24 33 1.0 33	-	WATER METE BACK FLOW	ER PREVENTER	_		4 PSI 11 PSI	_		MIXING VALVE			2"	2"	BRADLEY LW-985-SW-LF THERMOSTATIC WATER MIXING VALVE, INTEGRAL COMBINATION CHECKSTOPS WITH STRAINERS AND WALL SUPPORT. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 120°F. 10.0 GPM MINIMUM FLOW.
6 - - 62 2.0 62		PRESSURE P	SURE AVAILABL	E AT BUILDING ENTRANCE	 OSS	60 PSI	_	MV 2	MIXING VALVE			1/2"	1/2"	BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 110°F. 0.35 GPM MINIMUM FLOW.
36 2.0 24 6 4.0 8 - 1.0 31	BL 3	ILDING STATIC 4 HEIGH	; PRESSURE HE T X 0.434 =	GHT		14.80 PSI	_	WHA 1	WATER HAMMER ARRESTOR			VARIES		ZURN NO. Z1700 SHOKTROL WATER HAMMER ARRESTOR. STAINLESS STEEL CONSTRUCTION. WATER CONNECTION DEPENDS ON FIXTURE CAPACITY
4 4.0 8 3 0.5 3	PF	ESSURE REQU	JIRED AT FIXTUF	RE:		25 PSI		RD	ROOF/ OVERFLOW	SEE PLANS				WATTS DRAINAGE RD-260 COMBINATION ROOF DRAIN/OVERFLOW WITH EPOXY COATED CAST IRON DRAIN BODIES, FLASHING CLAMPS WITH
6 3.0 6 466 369	FL	JSH TANK: ILDING TOTAL	LOSS:			8 PSI 40 PSI		XY	DRAIN					INTEGRAL GRAVEL GUARDS, 4" HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOMES AND NO HUB OUTLET. X = BLDG NO., Y = RD NO. FLORESTONE NO. MSR-2424 24"X24" MOLDED ONE-PIECE MOP RECEPTOR
GPM 112			AVAI	LABLE PRESSURE FOR FRICTIO	ILOSS		-		SINK	3"	2"	3/4"	3/4"	WITH CHICAGO FAUCETS NO. 445-VBRRCF WALL-MOUNTED MANUAL SINK FAUCET. VANDAL-PROOF RIGID SPOUT WITH VACUUM BREAKER.
	TOTAL MAX A	LENGTH 1250	FT X F 1.2 = TO CITION LOSS PE	TAL EQUILVALENT LENGTH (T.E. R 100 FT : 1.93) 1500 FT			HB 1	HOSE BIBB			3/4"		WOODFORD B24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS. PROVIDE B24BX ACCESS PANEL.
								HB 2	HOSE BIBB			3/4"		WOODFORD Y24 AT STAND PIPES. BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER & ROUGH CHROME FINISH FC OUTDOORS.
GAS LOADS: 300 CFH, TDL = 35		GAS PI	PE SIZIN	G SCHEDULE (8'	W.C.)			FD 1	FLOOR DRAIN	2"	1-1/2"	TP		ZURN NO. ZN415-2NH-5B-P CAST IRON BODY, COMPLETE WITH 5" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
PIPE SIZE CFH @ 350'	1/2" 25	3/4" 52	1" 99	1¼" 1½" 2" 204 307 591	2½" 943	3" 4" 1668 3404	_	FD 2	FLOOR DRAIN	3"	2"	TP		ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL.
<pre>////////////////////////////////////</pre>								FD 3	FLOOR DRAIN	6"	3"			ZURN NO. ZN415-6IP-10B CAST IRON BODY, COMPLETE WITH 8" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR MOUNTING DETAIL
MARK FIXTURE	S or W	v c	W HW		DESCRIPTI	ON		FD	FLOOR DRAIN	2"	1-1/2"			ZURN NO. ZN415-3NH-6B-AR-P CAST IRON BODY, COMPLETE WITH 6" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR
SHOWER HEAD	FD	3,	/4" 3/4"	SHOWER STALL, FOLD DOW ARCHITECT. PLUMBING CO PBH-HL-QD-PSO ZENITH BL SHOWERHEAD, HAND-SHO HELD SHOWER HEAD, WITH	'N SEAT AND GF VTRACTOR TO P ILT-IN SHOWERS WER ASSEMBLY V24" STAINLESS	RAB BARS DESIGNED BY ROVIDE ACORN 536ADA- S, FLANGED WITH FLEX HOSE HAND- STEEL ADA GRAB BAR,		AD	AREA	3"				ZURN NO. ZN511 CAST IRON BODY, COMPLETE WITH HEAVY DUTY 9" ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, P-TRAP. SEE DETAIL 8/P6.1 FOR
1A (NOCLOS) INTERIOR)				DIVERTER VALVE, AIR-CON VALVE, BRADLEY S59-4016 SET OUTLET TEMPERED W COMPLIANT. 1.6 GPM.	'ROL SINGLE TE /IXING VALVE F(\TER TO 108 DE(MPERATURE METERING OR HOT & COLD INLET, G F. CBC ACCESS			DRINKING FOUNTAIN	2"	1-1/2"	1/2"		MOUNTING DETAIL. CONNECT TO STORM DRAIN. HAWS 1119.14/BP32/1920/6469 WALL-HUNG 14 GA. STAINLESS STEEL, VANDAL RESISTANT, HIGH-LOW DRINKING FOUNTAIN WITH PUSH BUTTON BOTTLE FILLER BACK PANEL AND DROP TRAY. SEE ARCH, SHEETS FOR MOUNTING
· · · · · · · · · · · · · · · · · · ·	un and and a second sec	MMM	,	······	·····		لرب	BT	BATHTUB	FS		3/4"	3/4"	HEIGHT. CBC COMPLIANT. FERNO IIIE MODEL 306 WHIRLPOOLTUB, 18 GA STAINLESS STEEL, 36 GALLON TUB 5 FOOT FILL HOSE INTEGRAL PUMP AND MOTOR DRAIN TO FLOOR SIN
<u> </u>								WB	WASHING	2"	1-1/2"	3/4"	3/4"	SPECIALTY PRODUCTS #0B501 RECESSED METAL WASHING MACHINE OUTLI
									BOX			1/2"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX
									BOX ICE MAKER			3/4"		SPECIALTY PRODUCTS #OB504-LL RECESSED METAL WATER SUPPLY BOX
								2 	BOX					MIFAB #MR-500-NPB PRESSURE ACTIVATED TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO
									PRIMER			1/2"		MIFAB #MI-100 ELECTRONIC TRAP PRIMER VALVE_COMPLETE WITH 1/2"
								TP 2	TRAP PRIMER			3/4"		COPPER TYPE "L" PIPE TO RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COMPLETE BEHIND ACCESS PANEL. SEE DETAIL 12/P6. FOR MOUNTING DETAIL. UP TO 30 DRAINS, SEE PLANS FOR NUMBER OF DRAINS. COORDINATE WITH ELECTRICAL FOR VOLTAGE.
								FS 1	FLOOR SINK	2"	1-1/2"	TP		ZURN NO. ZN-1900-KC-32 COATED CAST IRON WITH ACID RESISTANT PAINTER INTERIOR, 12" SQUARE TOP, 6" DEEP. DOUBLE DRAINAGE. NO HUB OUTLET

NOTES: 1. ALL PLUMBING FIXTURES, FLUSH VALVES, FAUCETS, FLOOR DRAINS, FLOOR SINKS, DRINKING FOUNTAINS, ETC. SHALL BE VANDAL RESISTANT. 2. ALL PLUMBING FIXTURES SHALL COMPLY WITH CAL GREEN FLOW RATES FOR 20 PERCENT FLOW RATE REDUCTION PER TABLE 5.303.2.3.

 PROVIDE NEW DISTRIBUTION PANEL "H1DP" 480Y/277V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1. PROVIDE NEW DISTRIBUTION PANEL "L1DP" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1. PROVIDE NEW PANEL "L1A" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1. 	 13 INDOOR FAN COIL POWER CON UNIT. PROVIDE LOCAL DISCONI STUB UP TO ASSOCIATED OUTI CONDUIT AND WIRING TO ROOT 14 DRINKING FOUNTAIN, PROVIDE RECEPTACLE .
 PROVIDE NEW DISTRIBUTION PANEL "L1DP" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1. PROVIDE NEW PANEL "L1A" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1. 	CONDUIT AND WIRING TO ROO14DRINKING FOUNTAIN, PROVIDERECEPTACLE .
3 PROVIDE NEW PANEL "L1A" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1.	[14] DRINKING FOUNTAIN, PROVIDE RECEPTACLE .
4 PROVIDE NEW PANEL "L1B" 120/208V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS, REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1.	15 PROVIDE GFCI RECEPTACLE FC EXACT MOUNTING HEIGHT AND
5 PROVIDE NEW PANEL "L1M" 120/208,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1.	16 INDOOR AC UNIT POWER CONN UNIT. PROVIDE LOCAL DISCONI OUT TO ASSOCIATED OUTDOOL CIRCUIT.
6 PROVIDE NEW PANEL "H1MA" 480Y/277V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1.	17 INSTALL GFCI TYPE DUPLEX RE ENCLOSURE.
7 PROVIDE NEW PANEL "H1MB" 480Y/277V,3PH,4W. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FURTHER DETAILS. REFER TO PANEL MOUNTING DETAIL ON SHEET 7/E6.1.	18 PROVIDE NEW PANEL "L1MA" 12 DIAGRAM ON SHEET E5 1 FOR I
8 PROVIDE NEW TRANSFORMER "TH1" 112.5 kVA 480-120/208V, SEE DETAIL 4/E6.1. FOR WIRE SIZE AND EQUIPMENT INFORMATION SEE SINGLE LINE DIAGRAM ON SHEET E5.1.	MOUNTING DETAIL ON SHEET
9 PROVIDE 120V POWER TO NEW FAN/S, LOCAL DISCONNECT SWITCH PROVIDED BY MECHANICAL. SEE MECHANICAL SCHEDULE M5.1 FOR ADITIONAL INFORMATION.	19 PROVIDE DEDICATED 208V/3PH RECEPTACLE. CONTRACTOR TO LOCATION PRIOR TO ROUGH-IN NEMA CONFIGURATION PRIOR
APPROXIMATE LOCATION OF NEW WALL MOUNTED IDF CABINET, CONTRACTOR TO VERIFY WITH TECHNOLOGY PLANS FOR EXACT LOCATION IN THE FIELD. IDF CABINET CIRCUITED TO PANEL "L1B" CIRCUIT # 21,22. 2#12,1#12G. 3/4"C.	20 PROVIDE GFCI RECEPTACLE FO
11 APPROXIMATE LOCATION OF NEW WALL MOUNTED FIRE ALARM CABINET, CONTRACTOR TO VERIFY WITH FIRE ALARM PLANS FOR EXACT LOCATION IN THE FIELD. FIRE ALARM CABINET CIRCUITED TO PANEL "1LB" CIRCUIT #23,24,25- 2#12,1#12G.3/4"C.	21 PROVIDE CONNECTION TO ROL 22 PROVIDE 120V DUPLEX TO TRA WITH PLUMBING CONTRACTOR
12 PROVIDE NEW ACUITY BRANDS LIGHTING; LITHONIA IISCN3P SERIES 8kVA INVERTER WITH SINGLE CABINET INCLUDING BATTERIES AND CONTROL PANEL. INVERTER TO BE PROVIDED WITH FACTORY INSTALLED OUTPUT BREAKERS TO SERVE LIGHTING LOADS. INPUT/OUTPUT VOLTAGE TO BE 277/480IN AND 277/480 OUT.	23 PROVIDE 120V POWER CONNEC TO PLUMBING PLANS FOR ADD

	A
	B
	C
	E
	F
rvt	
entral_nicole.oropezaCM2LR.	
*W2110000AR NHS - E21_C	
C:\Users\noropeza\Documents	

	SECOND FLOOR PLAN	1/8" = 1'-0"	1
	GENRAL NOTES:		
r.	1. ALL FAN COIL UNITS ARE POWERED FROM OUTDOOR UNITS, SEE MECHANICAL SCHEDULE ON M5.1 FOR FUTHER DETAILS		
	2. REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT PLACEMENT.		

	BUILDING A - ROOF PLAN - AREA B 1/8" = 1'-0"	1
	GENERAL NOTES:	
RER ON THE UNITS	1. REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT PLACEMENT.	
/IDED IN		
ID HEAT PUMPS.		
CIRCUIT AS		

	BUILDING A -SECOND FLOOR ROOF PLAN	1/8" = 1'-0"	
	GENRAL NOTES:		
REFER TO	1. REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT PLACEMENT.		

	I	Main Type	MCB (600)A)					Voltage Main Size		208Y/120V-3PH 4W		
		Noutra	100 /0										
ANEL:	L1DP									1	ALL	LOADS	IN VA
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir.
					11400			PANEL L1A	PER SLD	PER SLD	1	Α	2
					9100			-	-	-	3	В	4
					11700			-		-	5	С	(
					28500			PANEL L1M	PER SLD	PER SLD	7	Α	8
					29200			-	-	-	9	В	1
					19700			-	-	-	11	С	1
					7900			PANEL LP	PER SLD	PER SLD	13	Α	1
					8700			-	-	-	15	В	1
					6800			-	-	-	17	С	1
								OPEN			19	Α	2
								OPEN			21	В	2
								OPEN			23	С	2
								OPEN			25	Α	2
								OPEN			27	В	2
								OPEN			29	С	3
								OPEN			31	Α	3
								OPEN			33	в	3
								OPEN			35	С	3
								OPEN			37	Α	3
								OPEN			39	В	4
								OPEN			41	С	4
0	0	0	0	0	133000	0	0.00	TOTALS					
								_					
			LOAD SI	UMMARY	,							Phas	e Loa
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description				Ph	K١
0.0	0.0	0.0	0.0	0.0	170.4	0.0	0.0	Connected KVA				Α	65
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors				В	57
0 0	0.0	0.0	0.0	0.0	170.4	0.0	0.0	Design KVA				С	47

	Con.	Con.	Des.	Des.	
	KVA	Amps	KVA	Amps	
DTAL	170.4	473.0	170.4	473.0	

Date [.]	3
Duto.	

	I	Vain Type Neutra	MCB (20	E DA)					Voltage: Main Size	:	208Y/12 225 AN	0V-3PH 4 IPS	W			_
																-
PANEL:	L1B Recent	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amn/P	Wire	Cir No	Ph	Cir No	Wire	Amn/P	Des
Lig.	180	motor	mout	0001	Culor	Tatonon	0,0	A132 EXT. REC.	20/1	12	1	A	2	12	20/1	A131 REC.
	180							A132 REC.	20/1	12	3	В	4	12	20/1	A131 REC.
	180							A132 REC./T.V.	20/1	12	5	С	6	12	20/1	A131 REC./T
	540							A132 REC.	20/1	12	7	Α	8	12	20/1	A133 REC.
	900							A135 REC.	20/1	12	9	В	10	12	20/1	A133 REC.
	900							A134 REC.	20/1	12	11	C	12	12	20/1	A133 REC./T
	720							A145 REC.	20/1	12	13	A	14	12	20/1	
	720							A145 REC.	20/1	12	15	C B	10	12	20/1	A 145 DRINKI
	180							A148 REC.	20/1	12	19	A	20	12	20/1	A151 REC.
	180							A152 REC./T.V.	20/1	12	21	В	22	12	20/1	A153/A154 R
	540							A156/A159 REC.	20/1	12	23	С	24	12	20/1	A155 REC.
	720							A157/A158 REC.	20/1	12	25	A	26	12	20/1	A155 REC.
	720							A142 REC.	20/1	12	27	В	28	12	20/1	A141 REC.
	360							A142 REC.	20/1	12	29	C	30	12	20/1	A141 REC.
	800							A142 REFRIG.	20/1	12	31	A	32	12	20/1	TP-2
								SPARE	20/1		33	B	34	12	20/1	
								SPACE			30		30			SPACE
								SPACE			39	B	40			SPACE
								SPACE			41	C	42			SPACE
0	8540	0	0	0	0	0	0.00	TOTALS								
I			1	1	1						-1	1			1	
PANEL:	L1	В	2	(Section	2)			1			ALL	LOADS	IN VA	_		
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No	. Wire	Amp/P	Des
	3300						0.00	A141 - DRYER	30/1	10	43	A	44	12	20/1	F-3
	500				200		0.00	A141 - WASHER	15/1	12	45	B	46	12	20/1	EF-5
	180				300		0.00	STAIRS - WH-1	20/1	12	47		40 50	12	20/1	
	300						0.00		20/1	12	51	B	50	12	20/1	FACP **
	000						0.00			10		-				FACP **
	500						0.00	FACP **	20/1	12	53	C	54	12	20/1	
	500 180						0.00	FACP ** ROOF CONV. REC.	20/1 20/1	12	53 55	C A	54 56	12 12	20/1 20/1	A117- COAC
	500 180 1100						0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH	20/1 20/1 30/3	12 12 10	53 55 57	C A B	54 56 58	12 12 12	20/1 20/1 20/1	A117- COAC
	500 180 1100 1100						0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH 	20/1 20/1 30/3 -/3	12 12 10 10	53 55 57 59	C A B C	54 56 58 60	12 12 12 12 12	20/1 20/1 20/1 20/1	A117- COAC EF-5 RISER BELL
	500 180 1100 1100 1100						0.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH 	20/1 20/1 30/3 -/3 -/3	12 12 10 10 10	53 55 57 59 61	C A B C A	54 56 58 60 62	12 12 12 12 12	20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL
	500 180 1100 1100 1100 1000						0.00 0.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART	20/1 20/1 30/3 -/3 -/3 20/1	12 12 10 10 10 10 12	53 55 57 59 61 63	C A B C A B	54 56 58 60 62 64	12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL EF-10 A160- STOR.
	500 180 1100 1100 1100 1000 1000						0.00 0.00 0.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART	20/1 20/1 30/3 -/3 -/3 20/1 20/1	12 12 10 10 10 12 12 12	53 55 57 59 61 63 65	C A B C A B C C	54 56 58 60 62 64 66	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL SE-40 A160- STOR. CONV. RECE
	500 180 1100 1100 1100 1000 1000 1000						0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ROLLING CART	20/1 20/1 30/3 -/3 -/3 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 63 65 67	C A B C A B C A	54 56 58 60 62 64 66 68 68	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL EF-40 A160- STOR. CONV. RECE SPARE
	500 180 1100 1100 1100 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 65 67 69 71	C A B C A B C A B C C	54 56 58 60 62 64 64 66 68 70 72	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL A160- STOR. CONV. RECE SPARE SPARE
	500 180 1100 1100 1100 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 61 63 65 67 69 71 73	C A B C A B C A B C A	54 56 58 60 62 64 66 68 70 72 72 74	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL SE-40 A160- STOR. CONV. RECE SPARE SPARE SPARE SPARE
	500 180 1100 1100 1100 1000 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE	20/1 20/1 30/3 -/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 61 63 65 67 69 71 73 75	C A B C A B C A B C C A B B C C A B B C	54 56 58 60 62 64 66 68 70 72 72 74 76	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL SE-40 A160-STOR CONV. RECE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
	500 180 1100 1100 1100 1000 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 61 63 65 67 69 71 73 75 77	C A B C A B C A B C C A B C C	54 56 58 60 62 64 66 68 70 72 74 74 76	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL EF-40 A160-STOR. CONV. RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE
	500 180 1100 1100 1100 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPACE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79	C A B C A B C A B C C A B C C A	54 56 58 60 62 64 66 68 70 72 74 76 78 80	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL A160- STOR. CONV. RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE
	500 180 1100 1100 1000 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPACE SPACE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81	C A B C A B C A B C A B C A B C A B B C A B B C A A B B C C A A A B C C A A A A	54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL A160-STOR. CONV.RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE
	500 180 1100 1100 1000 1000 1000 180						0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPACE SPACE SPACE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C A B C C A B C C A B C C	54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82 84	12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL SE-40 A160-STOR CONV. RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE
0	500 180 1100 1100 1000 1000 1000 180 11440	0	0	0	300	0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE TOTALS	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C C A B C C A B C C	54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82 84	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL SE-40 A160-STOR CONV. RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE
0	500 180 1100 1100 1000 1000 1000 180 180	0	0	0	300	0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 3.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C C A B C C A B C C A B C C C A B C C C A B C C C A C C A C C C A C C C C	54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82 84	12 12 12 12 12 12 12 12 12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL EF-40 A160-STOR. CONV. RECE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE
0	500 180 1100 1100 1000 1000 1000 180 180	0 Motor	0 LOAD S	0 UMMARY	300	0 Kitchen	0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE Description Description	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C A B C C A B C C A B C C A Phas	54 56 58 60 62 64 66 68 70 72 72 74 76 78 80 82 84 84		20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117- COACI EF-5 RISER BELL EF-40 A160- STOR. CONV. RECE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE
0 Ltg.	500 180 1100 1100 1000 1000 180 18	0 Motor 3.0	0 LOAD S Heat	0 UMMARY Cool	300 Other	0 Kitchen	0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 3.00	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPARE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C A B C A B C A B C A B C A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A A B C C A A A A	54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 E Load KVA 15.2		20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL SE-40 A160-STOR. CONV. RECE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE
0 Ltg. 0.0 1.25	500 180 1100 1100 10	0 Motor 3.0 1.00	0 LOAD S Heat 0.0 1.00	0 UMMARY Cool 0.0 1.00	300 Other 0.5 1.00	0 Kitchen 0.0 0.65	0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 3.00 3	FACP ** ROOF CONV. REC. A141 - DRYER 208/3PH ROLLING CART ROLLING CART ROLLING CART ROLLING CART ELEVATOR PIT SPARE SPARE SPARE SPARE SPACE	20/1 20/1 30/3 -/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1	12 12 10 10 10 12 12 12 12 12	53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	C A B C A B C A B C A B C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A A B C C A A A B C C A A A B C C A A A A	54 56 58 60 62 64 66 68 70 72 74 74 76 78 80 82 84 80 82 84 52 84		20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A117-COACI EF-5 RISER BELL SE-40 A160-STOR CONV. RECE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE

0.00

0.00

0.00

SINGLE SECTION - 84 CKT PANEL

Panel Remarks:

 TOTALS
 0
 2820
 3016
 0
 0
 200
 0
 4.00

NEW PANEL

PANEL: L1B

10/22/03

	DEVICE SCHEDULE										
SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT						
FACP	EXISTING FIRE ALARM CONTROL PANEL WITH VOICE	NFS2-640	NOTIFIER	PROVIDED							
FATC	FIRE ALARM TERMINAL CABINET	N/A	N/A	N/A							
FAPS	FIRE ALARM POWER SUPPLY	FCPS-24	NOTIFIER	N/A							
SP	ADDRESSABLE AREA SMOKE DETECTOR (PHOTOELECTRIC)	FSP-851	NOTIFIER	3-0 RING	CEILING						
(PIV)	POST INDICATOR VAVLE	N/A	N/A	N/A							
$\langle \underline{!} \rangle_{A} / \langle \underline{!} \rangle_{C}$	ADDRESSABLE AREA HEAT DETECTOR (FIXED 200°F)	FST-851	NOTIFIER	4S DEEP BOX W/ 3-0 RING	ATTIC/ CEILING						
WP	FIRE ALARM EXTERIOR WEATHERPROOF SPEAKER	SPRK	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION							
<u> </u>	FIRE ALARM CEILING MOUNTED SPEAKER/STROBE	SPSCRL	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION							
	FIRE ALARM CEILING MOUNTED STROBE	SCW	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION							
R ²	ADDRESSABLE CONTROL RELAY	FDRM-1	NOTIFIER	4S DEEP BOX W/ 3-0 RING							
	FIRE ALARM JUNCTION BOX	N/A	BY ELECTRICAL CONTRACTOR	N/A							
	END OF LINE RESISTOR	N/A	N/A	N/A							
- ss	SURGE SUPPRESSOR	DTK-120HWLOK	DITEK	N/A							
D.C.	DOCUMENT BOX	SPACE AGE									
(S) _D	ADDRESSABLE DUCT SMOKE DETECTOR HOUSING	ND-100R	NOTIFIER		N/A						

NOTE: 1. UNLESS NOTED AS EXISTING, ALL THE DEVICES SHOWING ON THE DRAWINGS ARE NEW. 2. ALL DEVICES IN THE LEGEND MAY NOT BE USED.

C.S.F.M. NUMBER
7165-0028:0243
N/A
7315-0075:0206
7272-0028:0206
N/A
7270-0228:0196
7320-1653:0201
7320-1653:0505
7125-1653:0186
7300-0028:0219
N/A
N/A
7300-2105:0102
3240-0028:0232

GHTS MUST BE BETWEEN H (AFF)	
FEET, STROBE LIGHTS	

TOP OF SWITCH BOX, DEVICE, OUTLET FA MICROPHONE BOX

ABBREVIATION A OR AMP AFF AIC ARCH. AWG CKT CL. C.O. CU DWG ER EMT EQUIP EXIST / (E FIN. FLR FT GFI GND LTG. MTG FS JB PIV TS _____ (##>

DESCRIPTION AMPERES ABOVE FINISHED FLOOR AMPERES INTERRUPTING CAPACITY ARCHITECT; ARCHITECTURAL AMERICAN WIRE GAUGE CONDUIT CIRCUIT CEILING MOUNTED DEVICE CONDUIT ONLY WITH PULL WIRE COPPER DRAWING EXISTING DEVICE TO BE REMOVED ELECTRICAL METALLIC TUBING EQUIPMENT EXISTING FINISH FLOOR FEET GROUND FAULT INTERRUPTER GROUND LIGHTING MOUNTING NEW FLOW SWITCH JUNCTION BOX POST INDICATOR VALVE TAMPER SWITCH PULL BOX (WEATHERPROOF) RISER UP AND DOWN

		APPLICABLE CODES	DRAWING INDEX
BBREVIATIONDEICNGO.NGH. OR ØPHNLPAWRPGEC/RECEPTREEQ'DREMRGFSGHTSHPECSSFWSVYPTYGUF.O.N.V	ESCRIPTION OT IN CONTRACT UMBER HASE ANEL OWER ECEPTACLE EQUIRED OOM QUARE FEET HEET INGLE POLE PECIFICATIONS WITCH YPICAL NDERGROUND NLESS OTHERWISE NOTE OLTS	PARTIAL LIST OF APPLICABLE CODES : 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 3, TITLE 24 CCR 2022 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (ADD 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (CMC), PART 4, TITLE 24 CCR 2022 INTONAL ELECTRICAL CODE ADD 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA PLUBMING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA PLUBMING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA PLUBMING CODE (ADD 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 5, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE COPE (ADD 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA FIRE CODE COPE (CFC), PART 10, TITLE 24 CCR 2022 CALIFORNIA SISTING BUILDING CODE CADD 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA SISTING BUILDING STANDARDS CODE (CALIFORNIA AMENDMENTS) 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS COLE, PART 12, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.	SHEETDESCRIPTIONFA0.0FIRE ALARM LEGENDS AND GENERAL NOTESFA1.1FIRE ALARM SITE PLNFA2.1FIRE ALARM OVERALL FUR PLNFA2.2FIRE ALARM OVERALL FUR PLNFA2.2FIRE ALARM - 1ST FUR PLN - AREA BFA2.3FIRE ALARM - 1ST FUR PLN - AREA BFA2.3FIRE ALARM BLDG A - 2ND FUR PLNFA2.1FIRE ALARM BLDG A - 2ND FUR PLNFA2.3FIRE ALARM BLDG A - 2ND FUR PLNFA2.1FIRE ALARM DANEL SCHEDULES & CALCSFA2.1FIRE ALARM MANEL SCHEDULES & CALCSFA3.1FIRE ALARM MANEL SCHEDULES & CALCSFORUDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORKFOVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONSINTIS CONSTRUCTION DOCUMENT SET. CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWINGAD SPECIFICATION DOCUMENT SET. CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWINGAD SPECIFICATION DOCUMENT. NEW NAC POWER SUPPLYS SHALL BE ADDED AS NEEDED TO POWER UP THEVEN NOTIFICATION DEVICES.UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY, IF fUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.
-A VC I W I/ W	OLT-AMPERES /ATTS /ITH	FIRE WATCH NOTE	GENERAL NOTES
I/O W /P W EC C/	/ITHOUT /EATHERPROOF ALIFORNIA ELECTRICAL C	DE A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR F-2 AND CFC 901.7. SCOPE OF WORK PROVIDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK. PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE EXISTING FIRE ALARM CONTROL PANEL TO CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY, IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.	 APPLICABLE STANDARD , NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35 INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80° MINIMUM AND 96° MAXIMUM FROM FINISHED FLOOR. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90° MINIMUM AND 100° MAXIMUM FROM FINISHED FLOOR. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90° MINIMUM AND 100° MAXIMUM FROM FINISHED FLOOR. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90° MINIMUM AND 100° MAXIMUM FROM FINISHED FLOOR. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90° MINIMUM AND 100° MAXIMUM FROM FINISHED FLOOR. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90° MINIMUM AND 100° MAXIMUM FROM FINISHED FLOOR.
	SEQUENCE	OF OPERATIONS	 11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN. 12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS. 13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE
DEVICE ACTION SOUND ALARM AT "FACP" SOUND TROUBLE BUZZER AT "FACP" ANNUNCIATE AT "FACP" AND THE REMOTE ANNUNCIATOR (ALARM OR TROUBLE) ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING ACTIVATE SIGNAL FOR OFF-SITE MONITORING MUTE AUTONOMOUS LOCAL SOUND SYSTEM	MANUAL PULL STATIONAREA SMOKE DETECTOYESYESNONOYESYESYESYESYESYESYESYES	HEAT DEFECTOR120WAR PAILURESHORT ORCUINDOROUND PAILUREBATTERY PAILUREYESNONONONONOYESYESYESYESYESYESYESYESYESYESNONONONOYESYESYESYESYESYESYESYESYESNONONOYESNONONO	 DEVICES WITHIN 55 FROM EACH OTHER SHALL BE SYNCHRONIZED. 14 UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS. 15 ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED DLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN. 18 PER CEC STANDARDS. ALL WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN. 19 PER CEC STANDARDS. ALL WIRING IN CONDUIT. ABOVE GROUND MAY BE TYPE THHN OR THWN. 19 PER CEC STANDARDS. ALL WIRING IN CONDUIT. THAD TREAL BOXES TO BE SIZED PER CEC. 17 SMOKED ETECTORS SHALL DE TA HAVI CLOSER THAN 1'FROM THRES SPIRINLERS OR 3' FROM ANY SUPPLY 19 DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COURSED UNTIL THAT AREA IS READY TO BE TUNRED OVER TO THE OWNER. 18 ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT. SURFACE RACEWAY OR OPEN RUN ABOVE CELINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. 19 EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. 10 EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. 21 A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM KOUMTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETALS. 21 A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM KOUMTHOUT SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL BE CARE SHALL BE LABELED AT FIRE PARLEXTRARES SHALL BE LABELED THRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, 5744. 22 THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETIONS MOUNTED LABE CERESTRICAL CONTRACTOR SHALL BE CHARM COMMUNICATION SYSTEMS (S
LE ONDUIT UNDERGRO JD/WET LOC. WIRE DESIG TOR SHIELDED INIT. L N TOR SBI ED SHIELDED E TOR VBI ED SHIELDED C TOR SPEAKE THWN S COCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	DUND/WET GNATION LOOP Z US S US C ER CKT. S LL CKT. V R CKT.	 FIRE ALARM REQUIREMENTS SHOP DRAWINGS: COMPLETE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, COMPUTE IN'S SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONTRACTORES SHOW DRAWINGS MUST ALLS IN BUDGATE DEVICE WOUNTING HEIGHTS, ROOM NAMES AND NUMBERS, AND CILLERES IN THE LOCATION OF SIDE SIT FIRE ALARMS SYSTEM INSTALLERS NAME, ADDRESS, PHONE NUMBER AND C.10 LICENSE INSTALLERS IN THE LOCATION OF ALL FIRE RATE BUARS SHOWING ALL DEVICES, INCLUDING MANUFACTURERS MODEL NUMBERS) AND CALIFORNA STATE FRE MARSHALL LISTING NUMBERS. ORIGINAL COPIERS OF MANUFACTURERS'S SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATE INSTALLERS THE MARSHALL LISTING NUMBERS. ORIGINAL COPIERS OF MANUFACTURERS'S SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATE INSTALLERS THE MARSHALL LISTING NUMBERS. ORIGINAL COPIERS OF MANUFACTURERS'S SPECIFICATION FOR THE VORST CASE: ORIGINAL COPIERS OF MANUFACTURERS'S SPECIFICATION FOR THE VORST CASE: ORIGINAL COPIERS OF MANUFACTURERS'S ALCOUNTS IN COLOR THE FOLLOWING INFORMATION: ORIGINAL COPIERS OF MORST FOR ALL DEVICES FOR 24 HOURS - CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE MICH DRAW POWER REPORT FOR THE PANEL DURING STANDBY POWER - LE: OTHER VIEWS INSKIP ON THE PANEL DURING STANDBY POWER - LE: OTHER VIEWS INSKIP ON THE PANEL DURING STANDBY POWER - LE: OTHER MORST ROWING THE PANEL DURING STANDBY POWE	 40.NA 41.ALL CONDUIT SHALLES 34" UNLESS OTHERWISE NOTED. 41.ALL CONDUIT SHALLES 34" UNLESS OTHERWISE NOTED. 41.ALL CONDUIT SHALLES 34" UNLESS OTHERWISE NOTED. 42.ALL DEVISES INT THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SMELLES WITCHESS ONLY. 43. FILE ALARM SYSTEM SHALL BE ULLISTED (UULS). 44. FIRE ALARM SYSTEM SHALL BE ULLISTED (UULS). 45. GDG 97.6.5.3 (SFM MERIOMET) TREE ALARM TO TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NPPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS THERE UURX (CHATRAL STATION) OR UULS (RINDTE AND PROVED EVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NPPA 72. THE SUPERVISORY STATION SHALL BE LISTED AND PROVED SUPERVISORY FAMOLTON OR UUS (RINDTE AND PROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE BOAR TOOT NOR TO SEPARATELY OBTAIN APPROVAL WITH THE DAS TO CONTRACTOR SPERARE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CONTRACTOR SPERARE AND THE STREEMS RENOR SMALL BE LISTED WITH THE EXAMPRIA. 47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE EXAMPLAY. 47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SYSTEM SCHONDUNG TO A CASE BY CASE BASIS. 49. PROT TO DEMOLITOR. CONTRACTOR SHALL EST THE INFEROM SYSTEM TO ENSURE FULL FUNCTIONALITY. 49. RECORTANCE DEVIDENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EVOLUMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. 50. NA 51. PROVIDE A STELL STEM STATE ARCHITECT PROVIDE ACCEMENT. 51. NA 52. PROVIDE A FILL ALARM

EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

LEGENDS

IFICATION,— APPROVED IADE IN

AMBIENT NDS,

CTLY TO ALARM,

MOUNTED PER CBC

IERWISE . SYSTEM E NOTED. T OF 3 AND

> DRAWING NUMBER:

 $-\frac{1}{60} + \frac{1}{62} + \frac{1}{62} + \frac{1}{63} + \frac{1}{64} + \frac{1}{65} + \frac{1}{68} + \frac{1}{69} + \frac{1}{70} + \frac{1}{72} + \frac{1}{73} + \frac{1}{74} + \frac{1}{75} + \frac{1}{76} + \frac{1}{76} + \frac{1}{78} + \frac{1}{79} + \frac{1}{80} + \frac{1}{81} + \frac{1}{81} + \frac{1}{81} + \frac{1}{81} + \frac{1}{19} + \frac{1}{10} + \frac{1}{10}$

WP						
2W 2W S 2W S S S	1st	FLOOR	Plan	AREA	"B "	

FACP	BATTERY CALCULATION SHEET -	Nogales HS & Aquatic Center			
	FACP - NSF2-3030				
	LOCATION: Bldg. A (EXISTING)				
	Total load on panel with new devices added	UNIT	TOTAL	UNIT	TOTAL
		STANDBY	STANDBY	ALARM	ALARN
QUANTITY		CURRENT(A)	CURRENT(A)	CURRENT(A)	CURRE
1	CPU2-3030D	0.340000	0.340000	0.340000	0.340
1	AMP-24	0.130000	0.130000	0.130000	0.130
5	LCM-320	0.130000	0.650000	0.091000	0.455
4	LEM-320	0.100000	0.400000	0.091000	0.364
1	DIALER	0.040000	0.040000	0.100000	0.100
0	2 SLC W/ DACT	0.016000	0.000000	0.105000	0.000
1	ACPS-610	0.091300	0.091300	0.092200	0.092
72	CONTROL RELAY	0.000260	0.018720	0.006500	0.468
9	DUCT DETECTOR	0.000300	0.002700	0.006800	0.061
408	SMOKE DETECTOR	0.000300	0.122400	0.006800	2.774
360	HEAT DETECTOR	0.000300	0.108000	0.006500	2.340
3	PULL STATION	0.000380	0.001140	0.006400	0.019
4	DOOR HOLDER	0.020000	0.080000	0.000000	0.000
0	CO DETECTOR SOUNDER BASE	0.050000	0.000000	0.035000	0.000
5	MONITOR MODULE	0.000350	0.001750	0.000350	0.001
50	RELAY MODULE	0.000000	0.000000	0.015000	0.750
3	REMOTE LED	0.000000	0.000000	0.010000	0.030
	SUB TOTAL		1.986		7.9
	STANDBY CURRENT x 24 Hrs. (AH)		47.664	АН	
	ALARM CURRENT x 15 MINUTES (AH)		1.981	АН	
	TOTAL (AH)		49.646	АН	
	25% DERATING		12.411	АН	
	TOTAL DEMAND (AH)		62.057	АН	
		Frising Batteries	100	АН	

	STROBES WORST CASE VOLTAGE DROP																								
			WALLS	STROBE			CEILING	STROB	Ξ	, I	WALL SF	PEAKER/	STROBI	Ξ	CEILII	CEILING SPEAKER/STROBE TOTAL TOTAL TOTAL					TOTAL	TOTAL			
PANEL	CIRCUIT	15cd	30cd	75cd	95	15cd	30cd	75cd	95cd	15cd	30cd	75cd	95	110	15cd	30cd	75cd	95cd	CURRENT	DISTANCE	VOLTAGE	DEVICES	VOLTAGE DROP	WIRE RESISTACE	OPERATING VOLTAGE
NAME	NUMBER	0.060	0.086	0.142	0.164	0.071	0.096	0.153	0.176	0.060	0.083	0.136	0.155	0.179	0.071	0.096	0.153	0.176	(AMPS)	(FEET)	DROP (%)				
	V1					6	3				2	4							1.424	500	9.81%	15	2.9192	2.05	17.48
	V2					3	4				1	3			1	1			1.255	850	14.70%	13	4.373675	2.05	16.03
- FAPS-1	V3					7						2			1				0.840	1025	11.87%	10	3.5301	2.05	16.87
	V4																		0.000		0.00%	0	0	2.05	20.40
T	OTAL	0	0	0	0	16	7	0	0	0	3	9	0	0	2	1	0	0							
	V5					3				3		5							1.073	575	8.50%	11	2.5295975	2.05	17.87
	V6		1			5	1			1	1	4				1			1.320	675	12.28%	14	3.6531	2.05	16.75
- FAPS-2	V7					11	1				1	2							1.232	800	13.58%	15	4.04096	2.05	16.36
	V8					2				5		2							0.714	750	7.38%	9	2.19555	2.05	18.20
Т	OTAL	0	1	0	0	21	2	0	0	9	2	13	0	0	0	1	0	0							
	V9	3								1	2	1							0.542	350	2.61%	7	0.77777	2.05	19.62
	V10																		0.000		0.00%	0	0	2.05	20.40
- FAPS-3	V11																		0.000		0.00%	0	0	2.05	20.40
1	V12																		0.000		0.00%	0	0	2.05	20.40
т	DTAL	3	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0						3.26	

	BATTERY CAPACITY CALCULATION SHEET				
	FAPS-1				
	LOCATION: Area "A"				
		Unit	Total	Unit	Total
		Standby	Standby	Alarm	Alarm
QUANTITY	Description	Current(A)	Current(A)	Current(A)	Current(A)
1	NAC TRIP	0.075	0.075	0.175	0.175
1	Amps Calculated from Strobe calc sheet	0.000	0.000	3.520	3.520
	Sub Total		0.075		3.695
	A - Battery Backup - Standby (Hour)	24			
	B - Battery Backup (minutes)	15			
	C - Allowable Error (%)	25			
	D - Total Standby Backup (Amp-Hour)	1.800			
	E - Total Alarm Backup (Amp-Hour)	0.924			
	F - Allowable Error (C x (D + E))	0.681			
	Total Amp-Hour Required (D + E + F)	3.405			
	Battery Submitted	7 Amp-Hour			

	BATTERY CAPACITY CALCULATION SHEET						BATTERY CAPACITY CALCULATION SHEET				
	FAPS-2						FAPS-3				
	LOCATION: Area "B"						LOCATION: AREA "B"				
		Unit	Total	Unit	Total			Unit	Total	Unit	Total
		Standby	Standby	Alarm	Alarm			Standby	Standby	Alarm	Alarm
QUANTITY	Description	Current(A)	Current(A)	Current(A)	Current(A)	QUANTITY	Description	Current(A)	Current(A)	Current(A)	Current(A)
1	NAC TRIP	0.075	0.075	0.175	0.175	1	NAC TRIP	0.075	0.075	0.175	0.175
1	Amps Calculated from Strobe calc sheet	0.000	0.000	4.340	4.340	1	Amps Calculated from Strobe calc sheet	0.000	0.000	0.542	0.542
	Sub Total		0.075		4.515		Sub Total		0.075		0.717
	A - Battery Backup - Standby (Hour)	24					A - Battery Backup - Standby (Hour)	24			
	B - Battery Backup (minutes)	15					B - Battery Backup (minutes)	15			
	C - Allowable Error (%)	25					C - Allowable Error (%)	25			
	D - Total Standby Backup (Amp-Hour)	1.800					D - Total Standby Backup (Amp-Hour)	1.800			
	E - Total Alarm Backup (Amp-Hour)	1.129					E - Total Alarm Backup (Amp-Hour)	0.179			
	F - Allowable Error (C x (D + E))	0.732					F - Allowable Error (C x (D + E))	0.495	,		
	Total Amp-Hour Required (D + E + F)	3.661					Total Amp-Hour Required (D + E + F)	2.474			
	Battery Submitted	7 Amp-Hour					Battery Provided	7 Amp-Hour			

SPEAKER CIRCUIT LOAD CALCULATION													
SPEAKER CIF		WIRE	CIRCUIT	APPLIAI	NCES QUANT	TIES / TAP V	ESTIMATED		MAXIMUM	TOTAL			
SPEAKER CIRCUIT DESCRIPTION		PANEL	GAUGE	VOLTAGE	SPEAKER	SPEAKER	SPEAKER	SPEAKER	CIRCUIT	CIRCUIT	ACTUAL	ALLOWABLE	CIRCUIT
ΔMPHEIER#		CIRCUIT	(18, 16,14	(25 OR	TAPPED AT	TAPPED AT	TAPPED AT	TAPPED AT	LOAD	LENGTH	WIRE/LOSS	CKT, LENGTH	RESISTANCE
		NUMBER	12)	70 VRMS)	0.25 WATTS	0.5 WATTS	1 WATTS	2 WATTS	(WATT)	(FEET)	(dB)	(FEET)	(OHMS)
	Area "A"	S1	14 AWG	70		17		11	30.50	1500	-0.44	2,050	7.73
ΔMP 1	Area "B"	S2	14 AWG	70		15		8	23.50	1000	-0.22	5,200	5.15
AWF 1	Builing "B" Pool	S3	14 AWG	70		5		0	2.50	1000	-0.02	1,600	5.15
	spare	S4	14 AWG	70		0		0	0.00	0	0.00	1,600	0.00
								TOTAL	56.50				

TECHNOLOGY KEYED NOTES
1. INDICATES THE APPROXIMATE LOCATION OF THE EXISTING MDF.
2. INDICATES THE APPROXIMATE PATHWAY OF EXISTING UNDERGROUND CONDUIT, REFER TO RECORD DRAWING FOR CONTINUATION OF (E) UNDERGROUND CONDUITS TO THE (E) MDF LOCATION.
3. INDICATES THE APPROXIMATE LOCATION OF A 3'X5'X3' EXISITNG UNDERGROUND PULLBOX.
4. INDICATES THE APPROXIMATE PATHWAY OF NEW UNDERGROUNG 2" CONDUIT WITH 3- CELL MAXCELL INNERDUCT. CONDUIT IS TO BE RESERVED FOR NEW FIBER THAT WILL SERVE NEW IDF.
5. INDICATES THE APPROXIMATE LOCATION OF A NEW IDF. CONTRACTOR TO STUB UP AT THIS LOCATION TO SERVE NEW IDF.
6. PROVIDE12 STRAND SINGLE MODE FIBER, 6 STRAND MULTI MODE FIBER FROM MDF TO NEW IDF'S FIBER MUST BE DIRECT BURIAL UL RATED 3M SERVICE LOOP AT BOTH ENDS OF TERMINATION, 25 PAIR DIRECT BURIAL COPPER FEEDER.
7. CONTRACTOR TO REMOVE UNUSED WIRING TO THE PANEL.
8. (E) STUB OUT - FIELD VERIFY LOCATION.

