APPENDIX

DESIGN & ENGINEERING Guidelines FOR ARCHITECTS AND ENGINEERS

KENT STATE UNIVERSITY
OFFICE OF THE
UNIVERSITY ARCHITECT

DESIGN AND ENGINEERING GUIDE-APPENDIX

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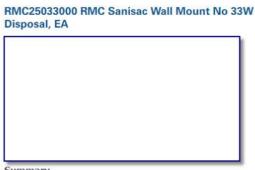
- 1. UFM furnished toilet accessories: 4 pages
- 2. Door Access Control: 2 sheets
- 3. Restroom Design: 3 pages
- 4. Electrical Items: 15 pages
- 5. Fire Department Items: 17 pages
- 6. Tree Protection Details: 1 page
- 7. Site Lighting: 2 sheets
- 8. Door Hardware cut sheets: 18 pages
- 9. Drinking Fountain cut sheet: 1 page
- 10. Equipment List Template/example: 6 pages
- 11. Elevator smokes and sprinkler flow chart: 3 pages



UFM Approved Standardized Restroom Dispensers

Feminine Hygiene Disposal Receptacle RMC Sanisac #33W Part #25033000





Summary

White enamel, opens from bottom Uses RMC Product #77 Liners Specifications 8 1/8W x 10 3/4H x 4 3/8D

GoJo Handsoap Dispenser, 1250 ML ADX-12, White 8884-06

GOJO 1250 ml Gray And White ADX-12 Dispenser

This high capacity 1250 mL GOJO® dispenser is ideal for high traffic areas. Large sight window, skylight and crystal clear refill bottles make it easy to check fill status. Converts to a locking dispenser at any time by simply removing the key from inside the dispenser. Fully ADA compliant. Lifetime guarantee. Patent pending CONTROLLED COLLAPSE refill bottles hold their shape as they empty for a more attractive overall appearance. Removable pump makes recycling easy. SANITARY SEALED refills are made of durable, recyclable PET material, using 30% less plastic than rigid HDPE bottles.

■ ASSEMBLY	
	Documents are in PDF format
Product Specifications	4
WIDTH INCHES	4-1/2
DEPTH INCHES	4
HEIGHT INCHES	11-3/4
CAPACITY	1250 ml
COLOR FINISH	Gray/White
BRAND	GOJO
CONSTRUCTION	Plastic
DESCRIPTION	ADX Dispenser
MANUFACTURERS PART NUMBER	8884-06
PACKAGE QUANTITY	3.
STYLE	Wall Mount Manual
TYPE	Foam
STYLE	Wall Mount Manual



• Building Maintenance • Receiving & Distribution • Custodial Services • Electrical • Fleet Services • Grounds • Parking Services Maintenance • • Structures • Energy Management •

GoJo Purell Hand Sanitizer Dispenser, 12 00 ML ADX-12, White 8820-06

Purell Hand Sanitizer Dispenser - ADX 1200mL White - 8820-06

High capacity 1200mL dispenser is ideal for high traffic areas. Large sight window, skylight and crystal clear refill bottles make it easy to check fill level. Slim design with high capacity. Easily converts to locked dispenser. For use with Purrell Hand Sanitizer Refills (sold separately). Fully ADA compliant. White color finish. Measures 4-1(2"W x 4"D x 11-3/4"H.





GoJo Shield Floor/Wall Protector 1045-WHT-12

Home > 1045-WHT-12





MESSENGER™ MESSENGER Installation Installation

Specifications

SHIELD™ Floor & Wall Protector for ADX™ and LTX™

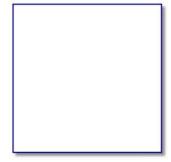
Attachment for Bottom of Dispenser

Protects floors and walls against splashes and drips caused by typical use.

- Helps protect floors, walls and countertops
- Attaches to any ADX™ or LTX™ dispenser
- · Easy to install

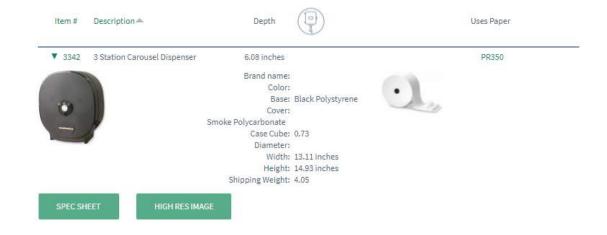
1045-WHT-12

Available in black or white

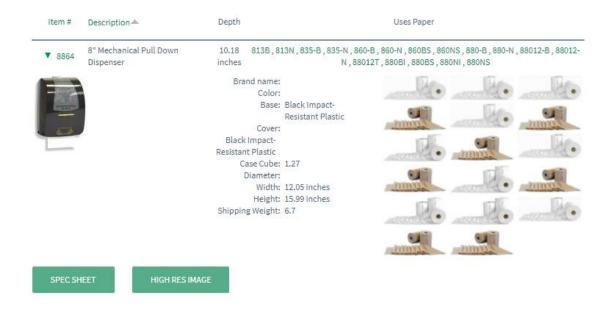


• Building Maintenance • Receiving & Distribution • Custodial Services • Electrical • Fleet Services • Grounds • Parking Services Maintenance • Structures • Energy Management •

Von Drehle Tissue Dispenser, 3 Station Carousel, Smoke/Black 3342



Von Drehle Auto-Cut Towel Dispenser, Black/Black 8864



• Building Maintenance • Receiving & Distribution • Custodial Services • Electrical • Fleet Services • Grounds • Parking Services Maintenance • Structures • Energy Management •

Residence Services Toilet Accessories

Paper towel dispensers – Scott roll towel (smoke) 46253

Toilet paper dispensers – GP compact Quad – 56744

GP compact two roll veridical - 56790

Soap dispensers - GOJO ADX-12 1250 ml

Hand sanitizer – Purell 7720-01 1200 ml, battery built into refill

Student Center and Rec Center Toilet Accessories

Paper towel dispensers – DV-880012N roll towel 800

Toilet paper dispensers – Staples 9 inch jumbo rolls

Soap dispensers – varies: use liquid pink hand soap

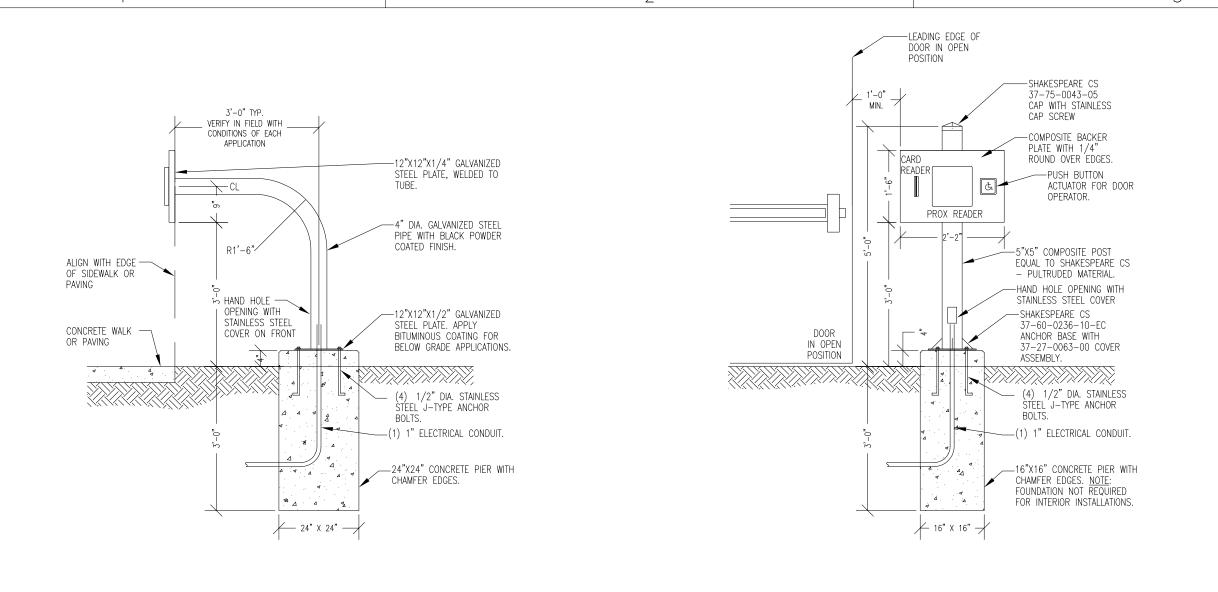
DeWeese Health Center Toilet Accessories

Paper towel dispensers – DV-880012N roll towel 800

Toilet paper dispensers – DV-3109 Jumbo toilet paper, single and double rolls

Soap dispensers – varies

[•] Building Maintenance • Receiving & Distribution • Custodial Services • Electrical • Fleet Services • Grounds • Parking Services Maintenance • • Structures • Energy Management •



—— (2) 1" CONDUITS WITH PULLWIRE TO DOOR ACCESS CONTROLLER

TO DOOR ACCESS CONTROLLER

(W-01)

 $\sqrt{W-02}$

WIRING PULLED CABLE TYPE PART NUMBER SYMBOL SPECIFIED FURNISHED INSTALLED TERMINATED ROUGH-IN DEVICE CARD READER CR DIV-8 6C, #18 SHIELDED LNL2010 PUSH PLATE GC GC 2C, #18 DIV-8 PROXIMITY READER DIV-8 SI SI EC EC 6C, #18 SHIELDED HID5375 ELECTRIFIED PANIC BAR GC EC EC VON DUPRIN 98QEL DIV-8 4C, #16 ELECTRIC STRIKE DIV-8 GC GC EC EC 2C, #16 ELECTRIC POWER TRANSFER DIV-8 VON DUPRIN EPT10 DIV-26 EC DETAILS C (INCLUDES PANEL ACP SI KSU ACCESS CONTROL PANEL DIV-8 `ENCLOSURE) BOLLARD DIV-6 GC GC EC SEE DETAILS BACK PLATE DIV-6 GC GC GC EC SEE DETAILS AUTOMATIC OPENER DIV-8 GC GC GC EC 2C, #18 LCN 9540 EXTERNAL REQUEST FOR EXIT REX DIV-8 EC 4C, #18 GC (CUT HOLES) SENTROL 1078W DOOR CONTACTS DIV-8 EC 2C, #18 POWER SUPPLY DIV-8 2C, #12 906

SECURITY DOOR CODED NOTES

NOTES:

- 1. IN EXISTING CONDITIONS ROUGH—IN SHALL BE BY GC.
- 2. NO SPLICING OR T-TAPPING OF ANY CABLES SHALL BE PERMITTED.
- 3. FOR ANY CABLE LENGTH RUNS GREATER THAN 200' CONSULT KSU FOR REQUIRED CABLE TYPE.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR BOLLARD TYPES AND ROUGH-IN REQUIREMENTS.

		(2) 1" CONDUITS WITH PULLWIRE TO DOOR ACCESS CONTROLLER
NO SPLICING AT JU HOME RUN ALL CAI	BLES.	TO DOOR ACCESS CONTROLLER
W-02 W-01 W-02 (6)	JB SEC 1	W-02 W-01
BACKPLATE OR BOLLARD MAY OCCUR CR PP PR 4 8 11 EPP OEL 3 5		PP PR 8 11 BACKPLATE OR BOLLARD MAY OCCUR
NON-SECURE SIDE	FLOOR	SECURE SIDE

TYPICAL SINGLE DOOR

120V SEE PLANS

TYPICAL TOILET ROOM DOOR

NO SPLICING AT JUNCTION BOX. HOME RUN ALL CABLES.

──(W-04)

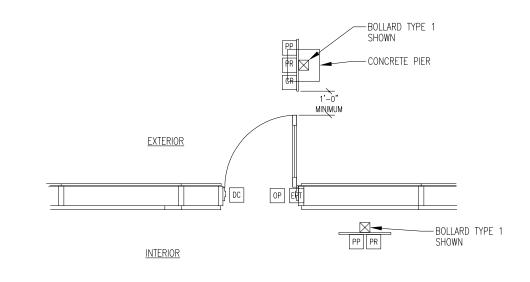
ELECTRIC STRIKE MAY OCCUR

W-02 W-01

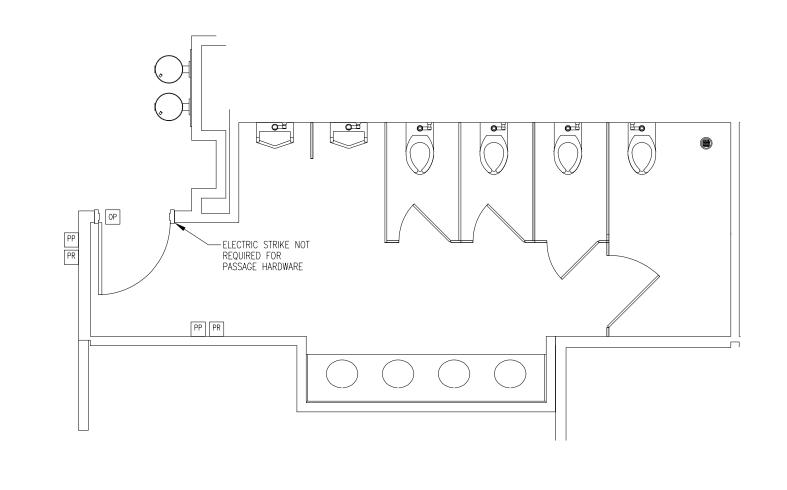
W-01

FLOOR

	K	ΕY	
SI	SECURITY INTEGRATOR	CR	CARD READER
GC	GENERAL CONTRACTOR	PP	DOOR ACTUATOR PUSH PLATE
EC	ELECTRICAL CONTRACTOR	PR	PROXIMITY READER
OP	POWERED OPERATOR	EPT	ELECT. POWER TRANSFER
JB	JUNCTION BOX	EP	EXIT DEVICE W/ INTERNAL REX
SEC	SECURITY/ACCESS CONTROLS	DC	DOOR CONTACT
PS	POWER SUPPLY	EC	ELECTRIC STRIKE



TYPICAL SINGLE DOOR - PLAN VIEW



TYPICAL TOILET ROOM DOOR - PLAN VIEW

GENERAL NOTES

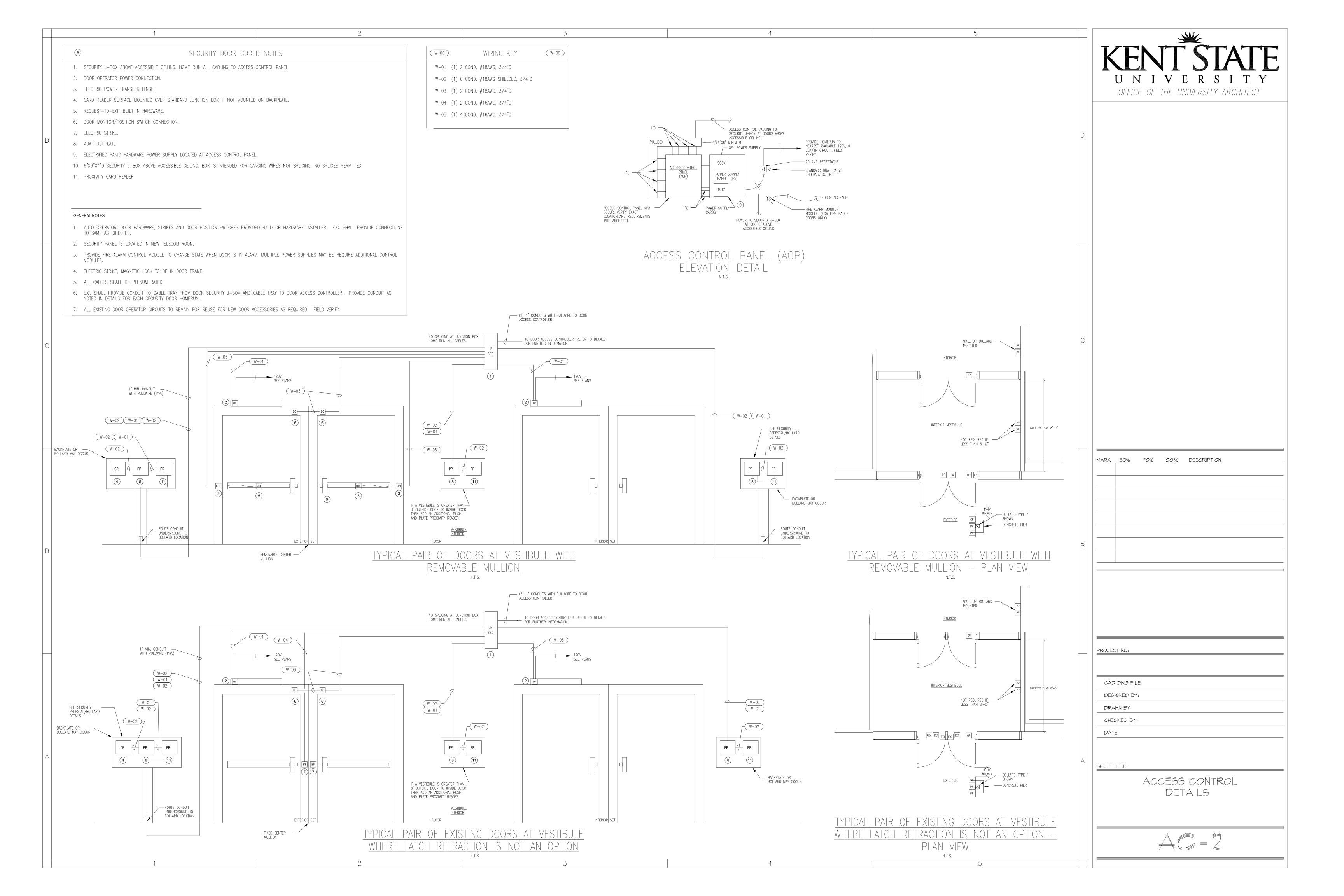
- 1. CONTRACTOR TO OFFER RIGHT OF FIRST REFUSAL TO ALL DOORS AND HARDWARE. LOCK SHOP TO SALVAGE PARTS AS NECESSARY. CONTRACTOR TO DISPOSE OF ALL UN-USED PARTS AND COMPONENTS.
- 2. WIRING FROM ALL DEVICES TO BE RETURNED TO THE HEAD END. LOCATED IN THE DATA CLOSET LOCATIONS SHOWN. SEE ELECTRICAL FOR SPECIFIC CABLING REQUIREMENTS.
- 3. FOR MULTIPLE DOOR OPENINGS, DOOR CONTACTS SHALL BE WIRED IN SERIES THEN HOME RUN TO THE HEAD END IN A SINGLE RUN.
- 4. ALL LNL-2010 CARD SWIPES TO BE PROGRAMMED TO READ TRACK 2 ONLY. LENEL PROGRAMMING LICENSING CAPACITY SHALL BE INCREASED BY THE UNIVERSITY LOCK SHOP.
- 5. IN ALL LOCATIONS, EXISTING DOGGING MECHANISMS ON EXIT DEVICES ARE TO BE REMOVED AND OR DISABLE ENTIRELY. ANY KEYED CYLINDERS IN EXIT DEVICES ARE TO BE REMOVED AND CAPPED.
- 6. ALL ELECTRICAL CONDUIT TO BE CONCEALED IN EXISTING WALLS, BUILDING COMPONENTS, SERVICE AREAS, ETC. IN ARES WHERE SURFACE MOUNTING CANNOT BE AVOIDED, USE WIREMOLD.
- ALL AREAS OF CONCRETE CUTTING AND PATCHING ARE TO BE RESTORED WITH 4,000 PSI CONCRETE WITH INTEGRAL FIBER REINFORCING.
- 8. ALL STEEL BOLLARDS AND POSTS ARE TO BE GALVANIZED AND POWDER COATED BLACK UNLESS SPECIFIED OTHERWISE.
- 9. EXTERIOR BACKER PLATES ARE TO BE DOUBLE LAYER PLASTIC PROVIDED BY UNIVERSAL PLASTICS, AKRON, OHIO OR PIEDMONT WITH PEBBLED FINISH. PANEL SIZES PER ELECTRICAL DETAILS.
- 10. INTERIOR BACKER PLATES SHALL BE SAME AS EXTERIOR BACKER PLATES BUT SHALL BE SOLID 1 PIECE WHERE CABLING CAN BE HIDDEN BEHIND THE PLATE. IF AN INTERIOR BOLLARD OR PEDESTAL IS USED THEN PLATE SHALL BE DOUBLE
- 11. AT AREAS WHERE DOORS ARE REMOVED FROM FRAMES, INSTALL BLACK PLATE AT EACH HINGE LOCATION. PLATE TO BE STAINLESS STEEL. HOLES AT CLOSER REMOVAL LOCATIONS ARE TO BE FILLED WITH SCREWS OR PLUGS.

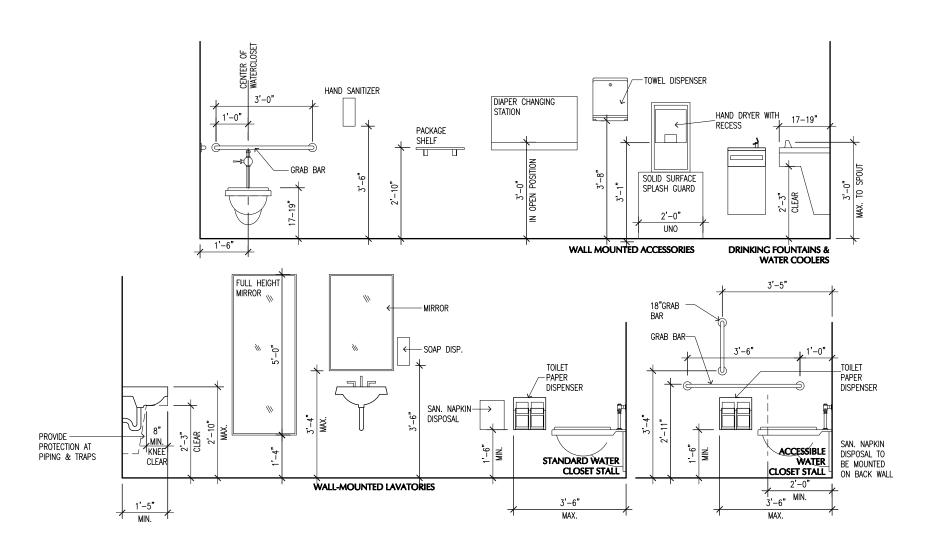
TYPICAL BACKER PLATE

OFFICE OF THE UNIVERSITY ARCHITECT

PROJECT NO:
CAD DWG FILE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
DATE:
SHEET TITLE:
ACCESS CONTROL
DETAILS

MARK 50% 90% 100% DESCRIPTION







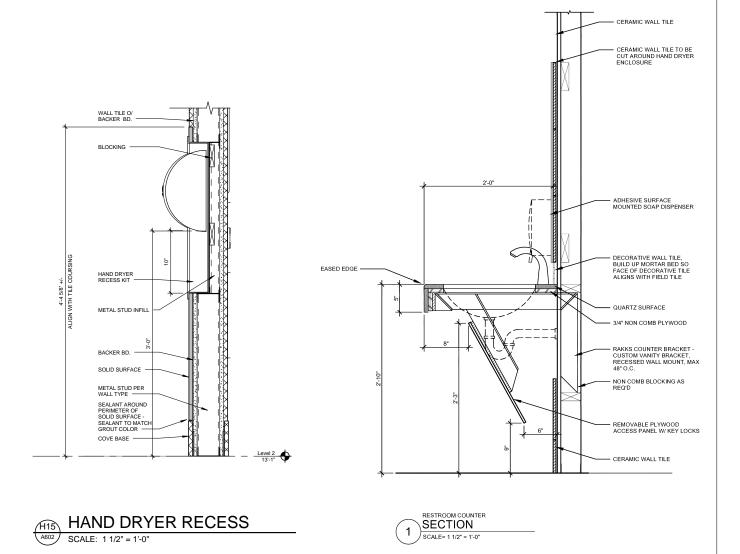


DESIGN AND ENGINEERING GUIDELINES

TOILET ACCESSORY MOUNTING HEIGHTS

DATE: 01-2018

1 OF 2



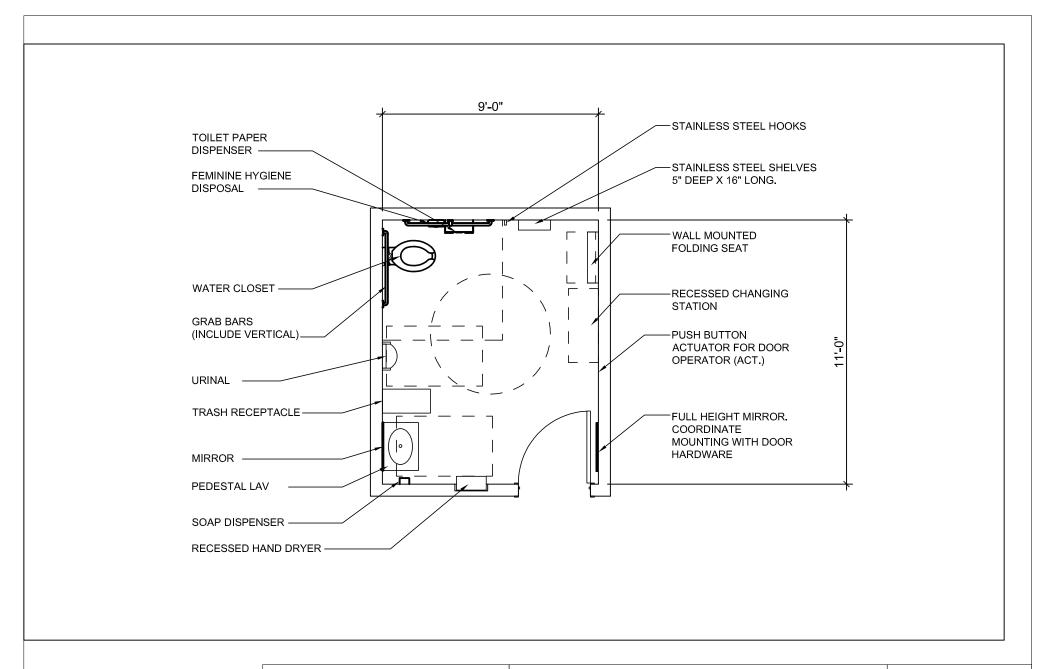


DESIGN AND ENGINEERING GUIDELINES

RESTROOM DETAILS

DATE: 01-2018

2 OF 2

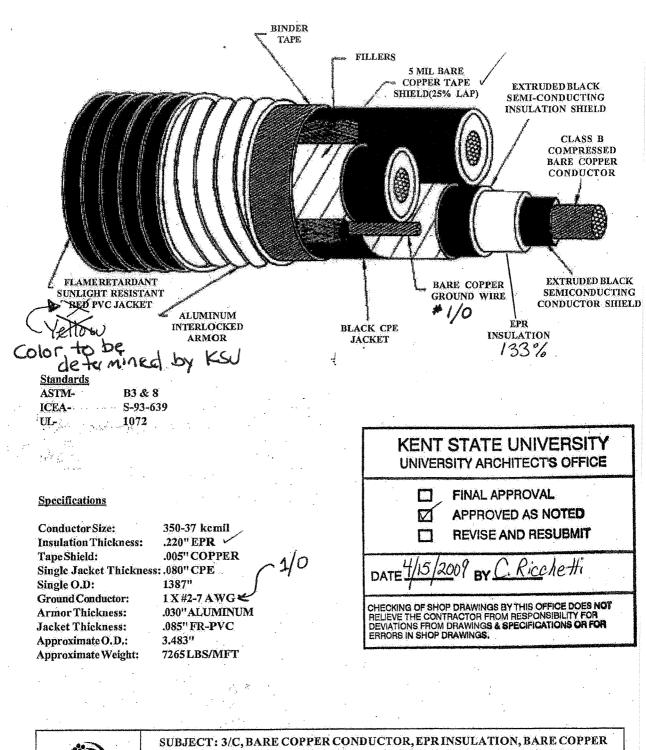




DESIGN AND
ENGINEERING GUIDELINES
UNIVERSAL RESTROOM
LAYOUT

DATE: 09-2019

SK-01





TAPE SHIELD (25% LAP), BLACK CPE JACKET ON INDIVIDUALS, FILLERS, BARE COPPER GROUND WIRE, BINDER, ALUMINUM INTERLOCKED ARMOR, FLAME RETARDANT RED PVC JACKET OVERALL, 15KV 133%.

SCALE: NONE BY: JPW

DATE: 03/23/08

DWG. 09-QE000995



DESIGN GUIDE 260513 MED VOLT CABLE ARMORED

DATE: 01-14-2010

MEDIUM VOLTAGE ONE CONDUCTOR EPR CABLE

CATALOG SPEC: CT1-13ET CT RATING for Sizes 1/0 and Larger

Southwire Internet Catalog Sec. 36 p. 4

1/C 15KV, 220 MIL EPR 133%, SHIELDED, FRPVC JACKET, CT RATED, MV-105

SIZE	INSULATION THICKNESS	STOCK NUMBER	COPPER WEIGHT/MFT	SHIPPING WEIGHT/MFT	OVERALL DIAMETER (in.)
2	220 MILS	95-36-38-89	205	667	.995
1/0	220 MILS	95-59-89-89	326	841	1.07
2/0	220 MILS	95-59-97-89	411	957	1,11
4/0	220 MILS	95-60-11-89	653	1273	1,21
250	220 MILS	95-60-29-89	772	1447	1.27
(350)	(220 MILS)	95-60-37-89	(1081)	1828	1.38
500	220 MILS	95-60-45-89	1544	2382	1.50
750	220 MILS	95-60-52-89	2316	3385	1.76
1000	220 MILS	95-60-60-89	3204	4295	1.90

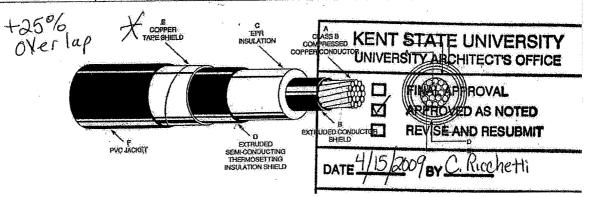
Need +25% Overlap on tape-snield

CATALOG SPEC: CT1 - 21ET

Southwire Internet Catalog Sec. 36 p. 8

1C, 35KV, 420 MIL EPR, 133% SHIELDED, FRPVC JACKET, CT-RATED, MV105

SIZE	INSULATION THICKNESS	STOCK NUMBER	COPPER WEIGHT/MFT	SHIPPING WEIGHT/MFT	OVERALL DIAMETER (in.)
1/0	420 MILS	89-00-65-89	326	1311	1.51
4/0	420 MILS	89-00-66-89	653	1886	1.73
350	420 MILS	89-00-67-89	1081	2536	1.92
500	420 MILS	89-00-68-89	1544	3142	2.04





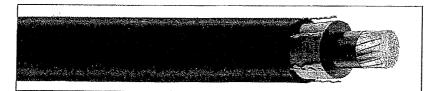
DESIGN GUIDE 260513 MED VOLT CABLE SINGLE CONDUCTOR

DATE: 01-14-2010

CA-2

UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded 15kV, UL Type MV-105, 133% Ins. Level, 220 Mils -



Product Construction

Conductor:

· 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

 Extruded thermoset semi-conducting stresscontrol layer over conductor

Insulation:

* Ethylene Propylene Rubber (EPR) insulation colored to contrast with black conducting shield

Composite Insulation Shield and Jacket:

 Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flameretardant Chlorinated Polyethylene (CPE)

GENERAL CABLE® (DI) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JIKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL" SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

NOMINAL

INSULATION

"Sixes smaller thain 1/0 AWG do not include "FOR CT USE"

Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations
- . Suitable for use in wet or dry locations when installed in accordance with NEC
- · For use in aerial, conduit, open tray and underground duct installations
- · For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4 (A) (5)

Features:

- Rated at 105°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded power cable with full insulation
- · Smaller outside dimensions reduce the size of duct needed or increase the ampacity
- · All features contribute to faster and
- easier installation
 Superior cold bend and cold impact
- · Stable and constant shield short circuit performance

Features (cont'd.):

- Excellent heat and moisture resistance
- · Outstanding corona resistance
- Flexibility for easy handling
 High dielectric strength
- Low dielectric loss
- · Low moisture absorption
- · Electrical stability under stress
- Chemical-resistant
- Sunlight-resistant
- · Meets cold bend test at -55°C

Compliances:

- . National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
 ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- Meets EPA 40 CFR, Part 2671 for leachable lead content per TCLP method
- OSHA acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

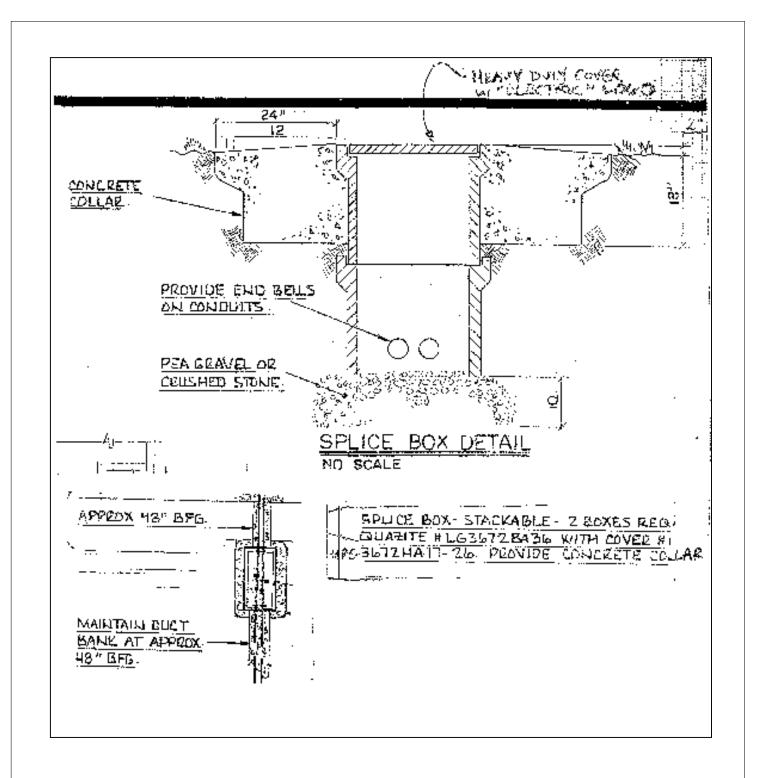
		COND. SIZE	NOMINAL CONDUCTOR		ETER	ORAIN WIRE		NOMIN	AL CABLE					AMPACITY	:	201711111
	CATALOG	(AWG/	DIAMETER	INC	y	SIZE	DIAN	ETER	WEIG	IT	COPPER W	EIGHT	CONDUIT	UNDERGROUND	TRAY	CONDUIT SIZING (4)
	NUMBER	(kemil)	INCHES	MIN.	MAX.	(AWG)	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	IN AIR (1)	DUCT (2)	(3)	(INCHES)
					5kV¥	, UL	TYPE	₫V-105	, 133% IN	IS. LE	/EL, 220	MILS				
	19161.660200	2	0.27	0,710	0.800	19	0.93	23,88	555	835	230	342	165	165	-	3
	19161.675100	1/0	0.34	0.780	0.865	18	1.01	25.91	734	1102	358	533	215	215	220	3.5
	19161.675200	2/0	0.38	0.820	0.905	18	1.05	27.18	844	1259	443	659	255	245	250	3.5
	19161.665300*	3/0	0,43	0.865	0.955	18	1.10	28.45	978	1458	550	818	290	275	290	3.5
	19161.675400	4/0	0.48	0.920	1.005	18	1,16	29.72	1151	1716	685	1019	330	315	335	4
	19161.686000	250	0.53	0.970	1.060	17	.1.23	31.50	1325	1984	813	1210	365	345	370	4
7	19161.686200	350	0.62	1.070	1,155	17	1.33	33.78	1691	2530	1122	1669	440	415	460	5
•	19161.686500	500	0.74	1.190	1.275	17	1.46	37.08	2238	3344	1585	2358	535	500	575	5
	19161.697000	750	0.91	1.370	1.460	16	1.67	42.42	3174	4739	2368	3523	655	610	745	6
ŀ	19161.307500*	1000	1.06	1.520	1.610	16	1.86	47.24	4122	6133	3138	4669	755	690	890	6
	Non-stock item, minimu	เพานพร ย	pply. Please con	sult Custo	mer Serv	ice for p	rice and deli	ivery.	Daniel Commission of the Commi							
- 1	 Armpacities are in acceler temperature of 40°C t 	ordance : 104°F).	with Table 310-7	3 of the N	EC for tri	plexed or	three single	e conductor	copper calalava	isolalocac	meet Land Dass	ct on a con	ductor tempe	rature of 105°C (22)	F) and a	an ambient
9	1) Ampacities are in acc air temperature of 40°C (2) Ampacities are in acc 221°F) and an ambient e 3) Ampacities are based	ordance v	with Table 310-7	7 of the N	EC for tri	plexed o	three single	e conduc i or	copper cable, in	huqetaton - i 🔏 i	of ducts (three c	conductors:	Oer ducti, Das	On a conductor	emo erai	ure of 1050
1	221 F) and an ambient a 3) Ampacities are based ampacities are based on	arth temp	serature of 20°C	(68°F), elec	etrical du	ot arrang	ement per F	igure 310 6 0	Detail 1, 1019	MACHE STO	Sharuan	@lekspi	E 8 (900)	DFFICE	1	
	impacilies are based on	75% of t	he values per Ta	ble 310-6	4 For cal	sta take	imperce disc	listed on he	for mon than 6	foot list o		Protection	o me an ampore	it an temperature t	a anticiti	us rj; trib
(4) Based on nominal cal estellations.	ote diame	ters, three single	a cables In	the duct	(PVC Sc	hedule 40) v	with nogou	nd wire and a m	lo m	4PHNAT'	nder of	Nonsidered,	but it should be ch	eckedi fo	r individual
,	100% insulation level is	aveilable	upon request							JI					ı	
E.	Dimensions and weights Vote; a) Sizes smaller tha	are nomi	nal, subject to in	dustry tota	erances.			I			APPRO	VED A	is not	ED	ě	
	b) The NESC Light	ar ito An Ilad gain	res un not menco symbol is on all	e TOH C UniShield	onstru	ctions					REVISE	AND	RESUE	MIT		
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								le	HEURING O	FOUND	MMASAMIA			www.g	eneral	able.com



DESIGN GUIDE 260513 MED VOLT CABLE

DATE: 01-14-2010

CA-3

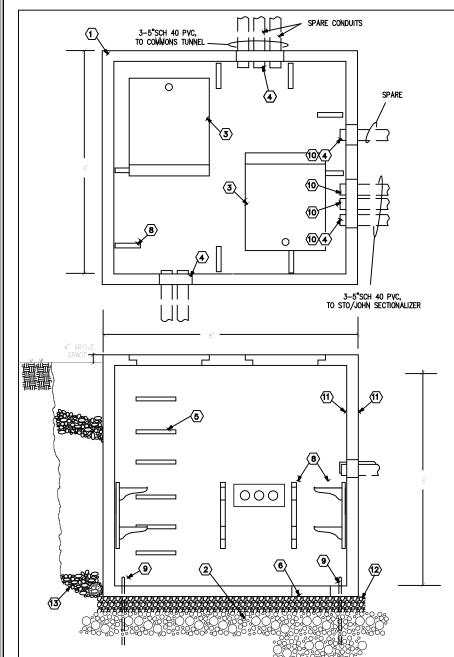




DESIGN GUIDE 260543 LARGE INGROUND PULLBOX DETAIL

DATE: 01-14-2010

PB-1



NEW MANHOLE NOTES



- 1 PROVIDE PRECAST FLUSH TO GRADE 6'W X 8'L X 8'H MANHOLE WITH ACCESSORIES AS INDICATED. MANHOLE TO WITHSTAND H-20 LOADING IN ACCORDANCE WITH AASHO.
- PROVIDE 18" BEDDING UNDER VAULT, #57 GRAVEL.
 GRAVEL SHALL EXTEND OUT 24-36" ON ALL SIDES.
- 3 BILCO TYPE "PCM" 30" X30" ALUMINUM ACCESS DOOR WITH PANIC HARDWARE, STANDARD REMOVABLE TURN HANDLE, REMOVABLE PLUG LOCKSET. PROVIDE LOCK AND KEYING PER KSU STANDARD (CORBIN RUSSWIN MORTISE CYLINDER, 59A2-6 PIN KEYWAY). DOOR TO BE CAST INTO HANHOLE. DOOR SHALL BE WIN 1/4" AL DIAMOND PLATE. TYPICAL 1 OF 2. DOOR SHALL HAVE "ELECTRIC" LOGO.
- 4 GROUT (NON SHRINK) ALL JOINTS IN WALLS AND DUCT ENTRANCES TO PROVIDE A WATERPROOF STRUCTURE. INSTALL 12" DOWELS BETWEEN DUCTBANK & MANHOLE. ALL CONDUITS ENTERING MH SHALL HAVE BELL END FITTINGS.
- 5 1" DIAMETER STEEL REINFORCED POLYPROPYLENE
 MANHOLE STEPS 16" WIDE, 12" ON CNTRS. STARTING AT
 12" DOWN FROM ACCESS DOOR TO WITHIN 12" OF FLOOR.
- 12" GRAVEL SUMP, FLR SLOPED TO DRAIN TO SUMP. PROVIDE ROCK SUMP 2'-0"DEEP, 3' DIAMETER CENTERED BENEATH SUMP HOLE.
- 7 PULLING IRONS
- 8 HEAVY DUTY NON METALLIC 14"CABLE RACKS. RACK STANCHION SHALL BE SECURED TO WALL WITH CONCRETE ANCHORS. ADJUST RACKS TO ACCOMMODATE THE CABLES FROM THE VARIOUS DUCTS. TYPICAL OF 8. ALL HARDWARE SHALL BE STAINLESS STEEL.
- 10 1" OPENINGS IN CONCRETE BASE WITH 3/4" X 10' GROUND ROD. ATTACH TO 600Y CND CONDUCTOR WITH 4/0 COPPER.
- 9 EC SHALL INSTALL THESE 5" SCH 40 PVC CONDUITS OUT FROM MH. AND INTERCEPT EXISTING CONDUITS STUBBED OUT FROM STOPHER/JOHNSON CONSTRUCTION SITE THESE CONDUITS SHALL ALSO BE ENCASE IN CONCRETE.
- 11 MANHOLE SHALL HAVE TWO COATS OF WATERPROOF SEALER APPLIED INSIDE AND OUT.
- 12 6" COMPACTED GRANULAR LEVELING COURSE (ODOT #304 CRUSHED LIMESTONE).
- 13 INSTALL GRANULAR FILL ON ALL FOUR SIDES TO WITHIN 24" OF TOP.

NEW MANHOLE #1

NO SCALE

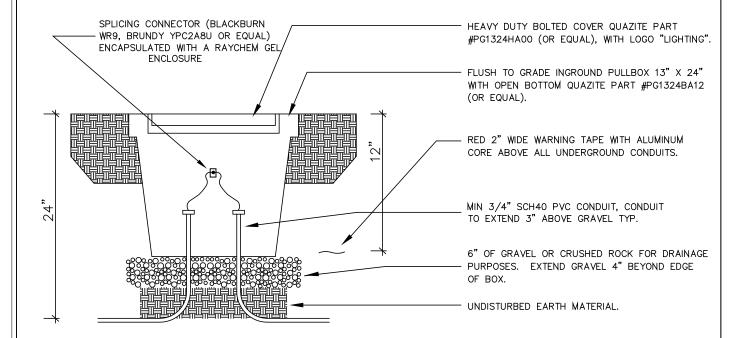
TYPICAL REQUIRED MAHOLE CONSTRUCTION



DESIGN GUIDE 260543 TYP MANHOLE DETAIL

DATE: 01-14-2010

MH-1



SPLICE BOX INSTALLATION DETAIL

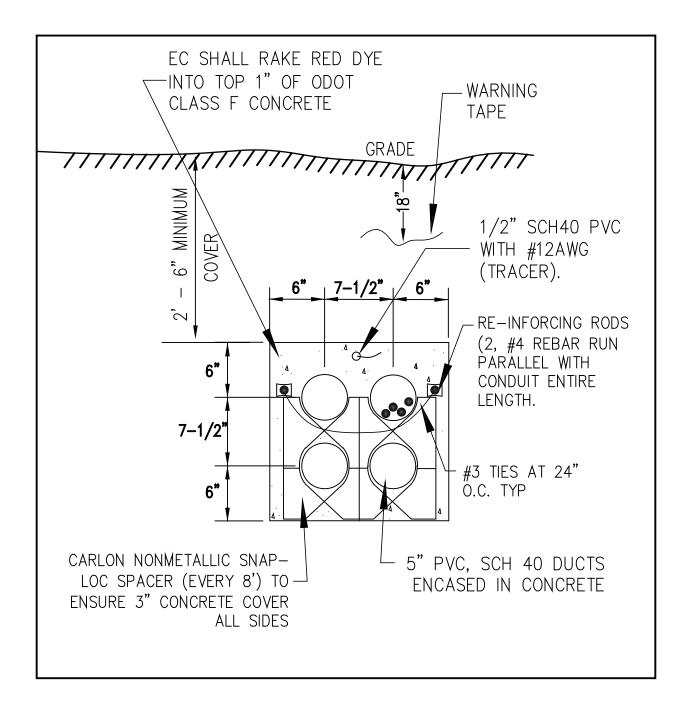
NO SCALE



DESIGN GUIDE 260543 STD SMALL INGROUND PULLBOX

DATE: 01-14-2010

PB-2



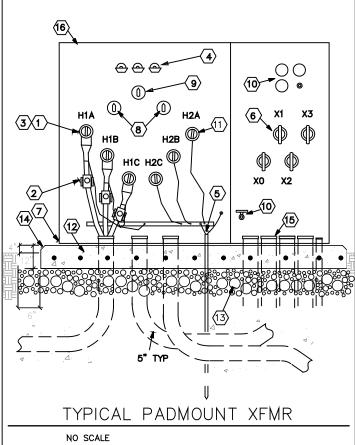
REQUIRED DUCTBANK CONSTRUCTION



DESIGN GUIDE 260543 DUCTBANK DETAIL

DATE: 01-14-2010

UD-1



PADMOUNT TRANSFORMER NOTES



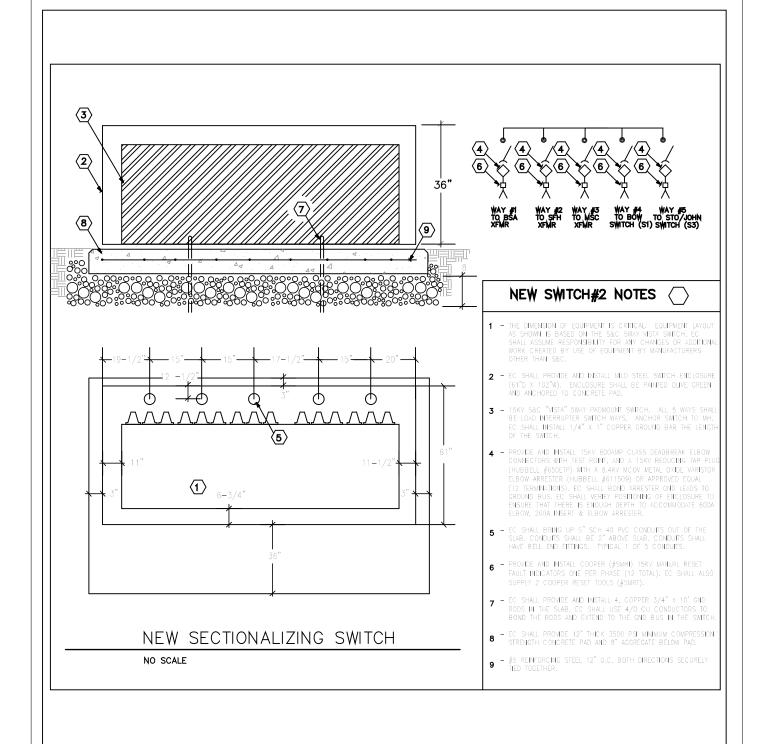
- 1 PROVIDE AND INSTALL 15KV 600AMP CLASS DEADBREAK ELBOW CONNECTORS WITH TEST POINT, INSULATING PLUG, CAP, STUD AND CABLE ADAPTER HUBBELL (#K655LR-WOX-) OR APPROVED EQUAL, EC SHALL ORDER APPROPRIATE ACCESSORIES SUCH AS LUGS, SHELD GROUNDING KIT, ETC. BOND CABLE SHELDING TO GROUND BUSS WITH COMPRESSION CONNECTORS. TYPICAL OF 6.
- 2 PROVIDE AND INSTALL FAULT INDICATOR ONE PER PHASE. THE INDICATOR SHALL PROVIDE A DISPLAY AFTER THE CABLE HAS FAULTED. THE FAULT INDICATORS SHALL BE SET AT THE HIGH TRIP RATING AND SHALL BE MOISTURE, HEAT AND CORROSION RESISTANT.
- 5 EC SHALL INSTALL SURGE ARRESTER ONE PER CABLE. EC SHALL USE A 15KV CLASS, 8.4KV MCOV METAL OXIDE VARISTOR ELBOW ARRESTER HUBBELL (#611509) OR APPROVED EQUAL. THE ELBOW ARRESTER SHALL BE INSTALLED ON THE BACK OF THE 600AMP DEADBREAK ELBOW USING A 15KV LOADBREAK REDUCING TAP PLUG HUBBELL (#650ETP) OR APPROVED EQUAL.
- 4 BAYONET OIL-FUSED CUTOUT, ONE PER PHASE WITH 3, 80A FUSES PLUS 3 SPARE.
- 5 FOUR (4), 3/4" X 10' GROUND RODS AROUND XFMR PAD CONNECTED WITH #4/0 CU. PROVIDE #4/0 CU GRIND FROM GRIND FING(CAD WELD TO GRIND RING CONDUCTOR OR ROD) TO XFMR. TAKE ALL 15KV TERMINATION ELBOW AND INSULATION CAP DRAIN WIPES, SHELDS TO GROUND.
- 6 EC SHALL ENSURE THAT THE TRANSFORMER SECONDARY BUSHNIGS ARE CAPABLE OF ACCEPTING 9-600KCML CONDUCTORS PER PHASE.
- 7 EC SHALL ANCHOR THE PADMOUNT TRANSFORMER/SWITCH TO THE CONCRETE PAD AT FOUR CORNERS OF DEVICE.
- 8 LOOP-FEED SWITCHES CONSISTING OF TWO (2) TWO POSITION, 15KV, 95KVBIL, 600A, 10KAM GANG OPERATED INTERNAL OIL SWITCHES.
- 9 ON-OFF RADIAL SWITCH TO DE-ENERGIZE THE TRANSFORMER WITHOUT OPENING THE LOOP-FEED SWITCHES.
- 10 THE TRANSFORMER SHALL ALSO HAVE LIQUID LEVEL GAUGE, LIQUID DRAIN VALVE, PRESSURE GAUGE, PRESSURE RELIEF VALVE, NITROGEN TEST/FILL PORT AND A TEMPERATURE GAUGE.
- 11 EC SHALL INSTALL 3, 15KV INSULATED PROTECTIVE CAPS, CONNECT DRAIN WIRES TO GND.
- 12 THE TRANSFORMER PAD SHALL BE 12" THICK 3500PSI CONCRETE WITH #5 REINFORCING STEEL 12"O.C. EACH DIRECTION.
- 13 INSTALL A MINIMUM 8" OF CRUSHED STONE OR GRAVEL BELOW PAD. THE STONE/GRAVEL SHALL EXTEND MINIMUM OF 6" OUT FROM THE SLAB ON ALL SIDES.
- 14 1" ROUNDED EDGE ALL SIDES.
- 15 9, 3-1/2" PVC SCH 40 CONDUITS WITH 4-600KCMIL CONDUCTORS IN EACH.
- 16 THE TRANSFORMER SHALL CONTAIN LESS FLAMMABLE LIQUID (R-TEMP).



DESIGN GUIDE 261200 MEDIUM VOLT XFMR

DATE: 01-14-2010

XF-1

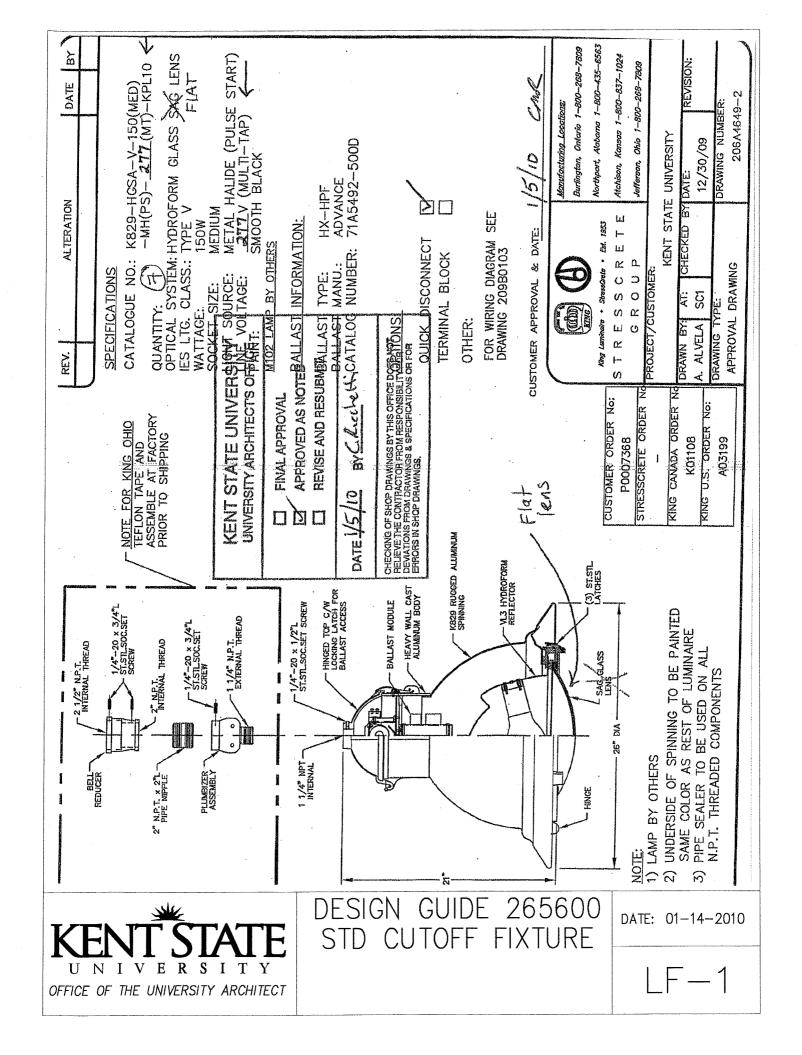


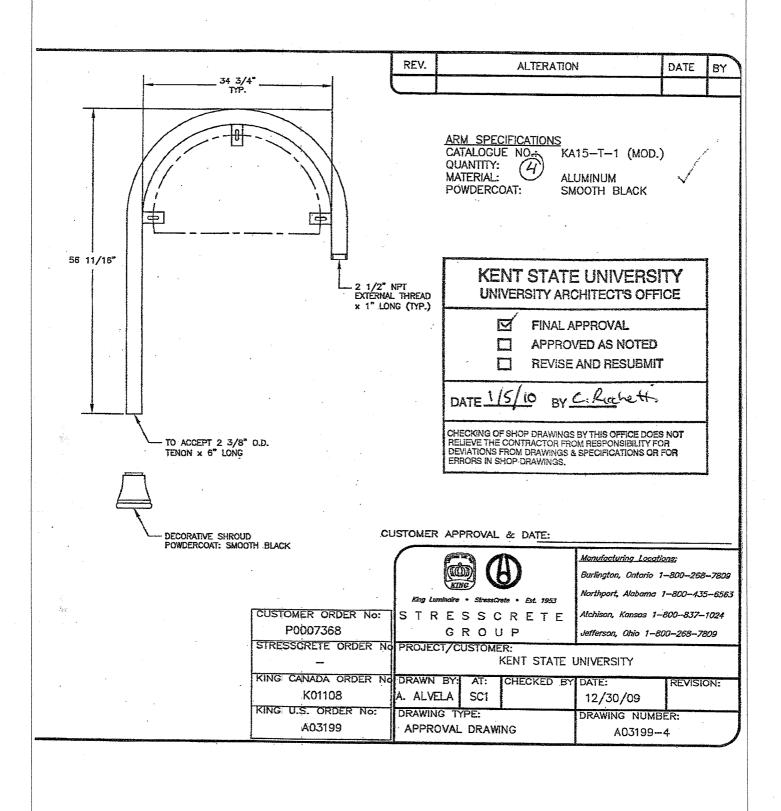


DESIGN GUIDE 261300 MED VOLT SWITCHGEAR

DATE: 01-14-2010

SW-1



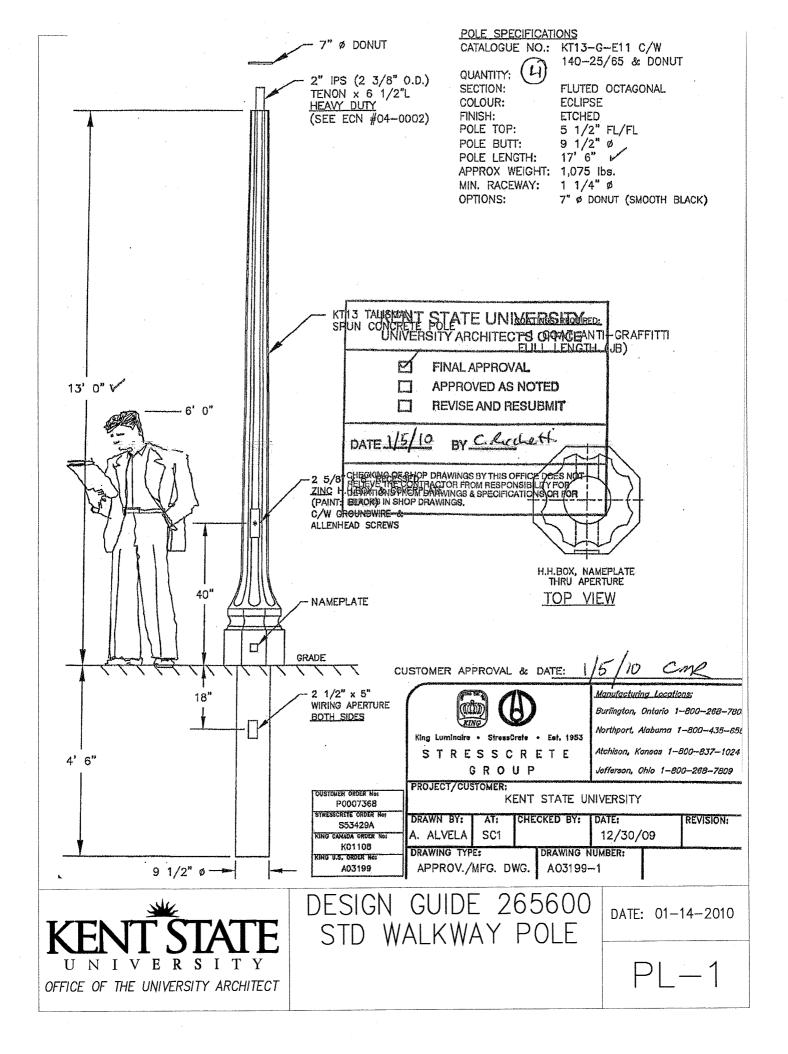




DESIGN GUIDE 265600 STD POLE ARM

DATE: 01-14-2010

PA-1



Line Currents (Amps) total from >
CENTRAL - Akron Fic. Buses (Real bus WEST RAVENNA 1479 W.RAVENNA 69): DARROW_WEST_RAVENNA_69KV

1698 KSU TAP 69 1 7231.45 @ -73.9 7231.45 @ 106.1 0.00000 @ 0.0 | 0.00000 @ 0.0 12525.2 @ -163.9 12525.2 @ 16.1

Line Currents (Amps) total from >

KENT (Real bus DARROW 1110 DARROW 69): DARROW_WEST_RAVENNA_69KV.

1264 KENT 69 1 2025.15 @ -72.1 2025.15 @ 107.9 0.00000 0 0.0 | 0.01672 @ -164.9 3507.66 @ -162.1 3507.67 @ 17.9

_CENTRAL - Akron Customers Line: DARROW_WEST_RAVENNA_69KV

1258 KENT ST U.69 1 7231.45 @ 106.1 7231.45 @ -73.9 0.00000 0 0.0 | 0.00000 0 0.0 12525.2 @ 16.1 12525.2 @ -163.9

_CENTRAL - Akron Fic. Buses (Real bus WEST RAVENNA 1479 W.RAVENNA 69): DARROW_WEST_RAVENNA_69KV

1704 KENT WTR 769 1 5207.75 @ -74.6 5207.75 @ 105.4 0.00000 @ 0.0 | 0.01672 @ 15.1 9020.10 @-164.6 9020.08 @ 15.4

	U.69"				
Substation _CENTRAL - Akron Customers		1 C_AK	Zone 69 69 kV S		
Bus 1258 KENT ST U.69 RR	Base kV 71.11	Ph-Ph (41.06	@0 deg A-Gnd)	Prefault 1.000 V (p	.u.) @ 0.0
+ seq	- seq	0 seq / 31o	A phase	(3)	
Voltage (kV) Ph-Gnd > 30.7547 ⊗ -0.5	10.3063 @-178.4	20.4590 @ 178.4	1 0.00000 @ 0.0	46.3120 @-131.5	47.6143 @ 130
> Thevenin (R, X)(p.u.)> 0.01555,0.05394	0.01556,0.05394	0.03682,0.10518			
Thevenin (R, X) (Ohms) > 0.78639,2.72753	0.78696,2.72744	1.86196,5.31857			
Fault Currents (Amps) > 3630:65 @ -72.3	3630.65 @ -72.3	10892.0 @ -72.3	10892.0 9 -72.3	0.00000 @ 0.0	0.00000 @ 0
Line Currents (Amps) total from >					
CENTRAL - Akron Fic. Buses (Real bus WE	ST RAVENNA 1479	W.RAVENNA 69): D	ARROW_WEST_RAVENNA_	69KV	
1698 KSU TAP 69 1 3630.65 @ -72.3					0.00006 @-147
	300 - 프랑크 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
-					
Substation _CENTRAL - Akron Fic. Buses	Area	1 C_AK	Zone 1036 69kV Su	b Tr	
-	Area	1 C_AK	Zone 1036 69kV Su	b Tr Prefault 1.000 V (p	
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT + seq	Area Base kV 71.11 - seg	1 C_AK Ph-Ph (41.06 0 seq / 3Io	Zone 1036 69kV Su @0 deg A-Gnd) A phase	b Tr Prefault 1.000 V (p B phase	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT	Area Base kV 71.11 - seg	1 C_AK Ph-Ph (41.06 0 seq / 3Io	Zone 1036 69kV Su @0 deg A-Gnd) A phase	b Tr Prefault 1.000 V (p B phase	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT + seq	Area Base kV 71.11 - seg	1 C_AK Ph-Ph (41.06 0 seq / 3Io	Zone 1036 69kV Su @0 deg A-Gnd) A phase	b Tr Prefault 1.000 V (p B phase	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT + seq	Area Base kV 71.11 - seg	1 C_AK Ph-Ph (41.06 0 seq / 3Io	Zone 1036 69kV Su @0 deg A-Gnd) A phase	b Tr Prefault 1.000 V (p B phase	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT + seq Voltage (kV) Ph-Gnd > 30.7916 @ -0.6 Line Currents (Amps) total from > KENT (Real bus DARROW 1110 DARROW 6	Area Base kV 71.11 - seq 10.2700 @-178.3	1 C_AK Ph-Ph (41.06 0 seq / 310 20,3633 @ 178.4	Zone 1036 69kV Su @0 deg A-Gnd) A phase 0.17596 @ -16.3	b Tr Prefault 1,000 V (p B phase 46,2746 @-131.4	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT + seq Voltage (kV) Ph-Gnd > 30.7916 @ -0.6 Line Currents (Amps) total from >	Area Base kV 71.11 - seq 10.2700 @-178.3	1 C_AK Ph-Ph (41.06 0 seq / 310 20,3633 @ 178.4	Zone 1036 69kV Su @0 deg A-Gnd) A phase 0.17596 @ -16.3	b Tr Prefault 1,000 V (p B phase 46,2746 @-131.4	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT	Area Base kV 71.11 - seq 10.2700 @-178.3 9): DARROW_WEST_RA 1016.76 @ -70.5	1 C_AK Ph-Ph (41.06 0 seq / 3Io 20,3633 @ 178.4 VENNA_69KV 2729.26 @ -71.0	Zone 1036 69kV Su @0 deg A-Gnd) A phase 0.17596 @ -16.3	b Tr Prefault 1.000 V (p B phase 46.2746 @-131.4	C phas
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT	Area Base kV 71.11 - seq 10.2700 @-178.3 9): DARROW_WEST_RA 1016.76 @ -70.5	1 C_AK Ph-Ph (41.06 0 seq / 3Io 20,3633 @ 178.4 VENNA_69KV 2729.26 @ -71.0	Zone 1036 69kV Su @0 deg A-Gnd) A phase 0.17596 @ -16.3	b Tr Prefault 1.000 V (p B phase 46.2746 @-131.4	C phas 47.5754 @ 130
Substation _CENTRAL - Akron Fic. Buses Bus 1698 KSU TAP 69 LT	Area Base kV 71.11 - seq 10.2700 @-178.3 9): DARROW_WEST_RA 1016.76 @ -70.5 W_WEST_RAVENNA_698 3630.65 @ 107.7	1 C_AK Ph-Ph (41.06 0 seq / 3Io 20.3633 @ 178.4 VENNA_69KV 2729.26 @ -71.0 V 10892.0 @ 107.7	Zone 1036 69kV Su ©0 deg A-Gnd) A phase 0.17596 @ -16.3 2943.24 @ -70.6	b Tr Prefault 1.000 V (p B phase 46.2746 @-131.4	C phas

Zone 69 69 kV Sub Tr Substation _CENTRAL - Akron Customers Area 1 C_AK Base kV 71.11 Ph-Ph (41.06 @0 deg A-Gnd) Prefault 1.000 V (p.u.) @ 0.00 Bus 1258 KENT ST U.69 RR - seq 0 seq / 3Io A phase B phase + seā Voltage (kV) Ph-Gnd > 0.00000 @ 0.0 0.00000 @ 0.0 0.00000 @ 0.0 | 0.00000 @ 0.0 0.00000 @ 0.0 0.00000 @ 0.0 Thevenin (R, X)(p.u.)> 0.01555,0.05394 0.01556,0.05394 0.03682,0.10518 Thevenin (R, X) (Ohms) > 0.78639,2.72753 0.78696,2.72744 1.86196,5.31857 Fault Currents (Amps)> 14463.1 @ -73.9 0.00000 @ 0.0 0.00000 @ 0.0 | 14463.1 @ -73.9 14463.1 @ 166.1 14463.1 @ 46.1 Line Currents (Amps) total from > _CENTRAL - Akron Fic. Buses (Real bus WEST RAVENNA 1479 W.RAVENNA 69): DARROW_WEST_RAVENNA_69KV 1698 KSU TAP 69 1 14463.1 @ -73.9 0.00000 @ 0.0 0.00000 @ 0.0 | 14463.1 @ -73.9 14463.1 @ 166.1 14463.1 @ 46.1 Zone 1036 69kV Sub Tr Substation _CENTRAL - Akron Fic. Buses Area 1 C_AK Bus 1698 KSU TAP 69 LT Base KV 71.11 Ph-Ph (41.06 @0 deg A-Gnd) Prefault 1,000 V (p.u.) @ 0.00 + seq - seq 0 seq / 3Io A phase B phase C phase Voltage (kV) Ph-Gnd > 0.15968 @ -24.9 0.00000 @ 0.0 0.00000 @ 0.0 | 0.15968 @ -24.9 0.15968 @ -144.9 0.15968 @ 95.1 Line Currents (Amps) total from > KENT (Real bus DARROW 1110 DARROW 69): DARROW_WEST_RAVENNA_69KV 69 1 4050.35 @ -72.1 0.00000 @ 0.0 0.00000 @ 0.0 | 4050.35 @ -72.1 4050.35 @ 167.9 4050.35 @ 47.9 _CENTRAL - Akron Customers Line: DARROW_WEST_RAVENNA_69KV 1258 KENT ST U.69 1 14463.1 @ 106.1 0.00000 @ 0.0 0.00000 @ 0.0 | 14463.1 @ 106.1 14463.1 @ -13.9 14463.1 @ -133.9 _CENTRAL - Akron Fic. Buses (Real bus WEST RAVENNA 1479 W.RAVENNA 69): DARROW_WEST_RAVENNA_69KV 1704 KENT WIR T69 1 10415.6 @ -74.6 0.00000 @ 0.0 0.00000 @ 0.0 | 10415.6 @ -74.6 10415.6 @ 165.4 10415.6 @ 45.4



100' Aerial Platform

OPERATOR'S MANUAL



1819 Turning Performance Analysis

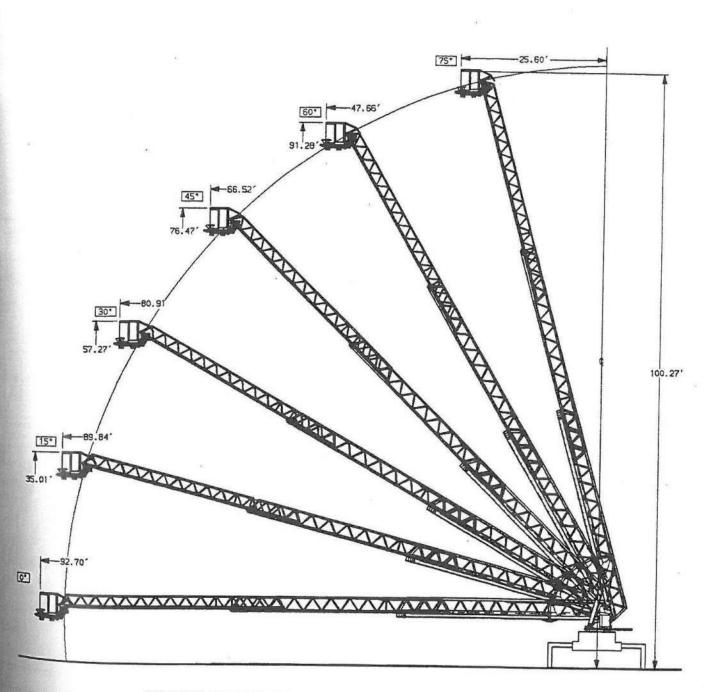
			Parameters:	
			Inside Cramp Angle:	33.00 °
		and the same of th	Axle Track:	83.11 in
		and the same of th	Wheel Offset:	5.25 in
Additional Bumper Dept	th /		Tread Width:	17.40 in
ý		Axle Track Wheel Offset	Chassis Overhang:	65.80 in
1	7">	Cramp Angle	Additional Bumper Depth:	22.00 in
Chassis Overhang		Tread Width	Wheelbase:	256.00 in
	747		Calculated Turning Radii:	
/	/		Inside Turn:	31 ft. 8 in.
			Curb to Curb:	46 ft. 4 in.
Wheelbase / /	- 1	Walls.	Wall to Wall:	53 ft. 3 in.
## / /		Curb to Curb Turning Radius	Comments:	
	-	Turni, Ning Ra	Aerial Application	
111	~~	ng Radius	BUMPER TO BUMPER	- 41'
<u> </u>			WIDD4 - 8'	
	W	Inside Turning Radius	WIDTH - 8' FRENT OVERITANG -	54"
\ \		, ,	LENGTH INCLUSING Bucke	T-46'
\ \	-		HETETH- 11'4"	
/ /			HERENT- 11'4" Weight (USE 4	OT)
omponents	PRIDE #	Description		2
ront Axle	0000295	Axle, Front, Meritor FL-941, 21,000#		
ront Tires	0001615 0060010	Tires, Goodyear, 425/65R22.50 18 ply G286 trea Pierce Arrow Chassis	ad	
hassis ront Bumper	0012246	Bumper, 22" extended - all chassis'		
erial Device	0022160	Aerial, 100' Pierce Platform		
otes:				

Actual Inside Cramp Angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for a 9.00 inch curb.

Reduce turning radius by 33% if vehicle is equipped with all-wheel steer.

AERIAL FAMILIARIZATION INFORMATION



NOTE: FOR AERIAL REACH MEASURE FROM THE PLATFORM STEP- ADD 10"

Figure 4. 100-Foot Aerial Platform Range Diagram

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AERIAL PLATFORM OPERATION PROCEDURE

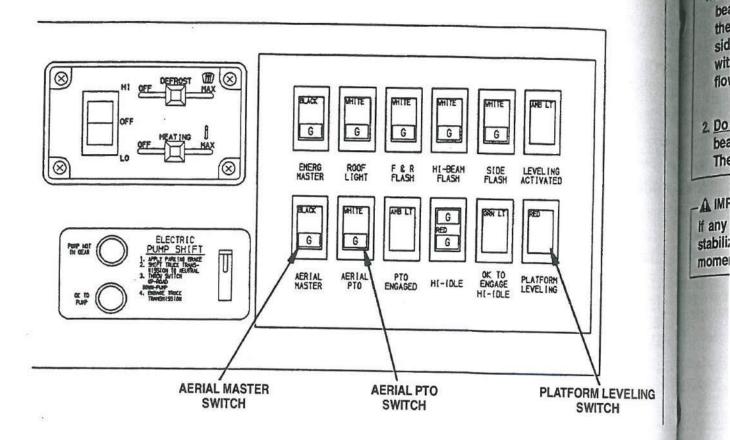


Figure 8. Typical Switch Panel

STABILIZER PRECAUTIONS: SET-UP PROCEDURE

IMPORTANT: SET WHEEL CHOCKS IN PLACE.

Refer to Figure 1 for location of three doors which house the controls for extending beams and jack cylinders to set up the unit.

A SAFE OPERATING LIMITS

Safe operating angles at full load when the unit is set up are:

- 0° to 3.5° Side to Side (Slope)
- 0° to 5.5° Front to Rear (Grade)

Angle° indicators are located at the rear of the unit (Figure 1).

NOTE: CHECK AERIAL PTO INDICATOR LIGHT -HYDRAULIC POWER SHOULD BE AVAILABLE AND THE ENGINE SHOULD BE AT LOW IDLE. REVIEW PRECEDING STEP 2. IF YOU DO NOT HAVE HYDRAULIC POWER OR LOW IDLE.

1. Switch hydraulic power to "stabilizer." You now have hydraulic power to function the stabilizer valve controllers, and the warning "beepers" will activate.

They will remain "ON" until the stabilizers are set will will be indicated by green lights. Refer to figure 1.

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- 2. Turn "ON" high idle switch (figure 1). The engine idle RPM is preset for maximum hydraulic power.
- Extend stabilizer beams and jacks (figure 9).

NOTE: TO AVOID RELEVELING THE UNIT, LEVEL SIDE OF APPARATUS BEFORE THE HIGH SIDE.

- a. Push down on the outside control handles (ref figure 1) to extend beams.
- b. Repeat for the opposite side.
- c. Place ground pads under jack locations. Push on the center control handles (refer to figure 1) to 10 jacks. Pushing on both handles simultaneously with heel of your hand will lower both jacks at the same
- d. Raise the rear tires off the ground about 1 1%
- e. Raise the front tires just enough to take out the The front tires must contact the ground for state (Undue stress is placed on the chassis if the front are off the ground and the ladder is fully extended the cab.)

A WARNING:

Horizontal beams must be to full extension for 360° rotation of aerial unit.

- For operations over one side, the horizontal beams on that side must be fully extended. When the beams are not fully extended on the opposite side, the load is reduced to 850# from 1000# without flowing water and to 500# from 600# flowing water. Ref. page 11 preceding.
- Do not take aerial over the centerline of chassis if beams on the other side are not at full extension.
 The unit will become unstable and may upset.

A IMPORTANT:

If any stabilizer beam is not fully extended, the stabilizer override switch will have to be held "ON" momentarily to raise the ladder clear of the cradle.

CAUTION:-

BE SURE UNIT IS SET UP WITHIN SAFE OPERATING LIMITS, maximum 3.5° side to side and 5.5° fore and aft.

- 4. Turn "OFF" high idle. When the unit returns to low idle, select aerial hydraulic power.
- 5. Close and latch door covering controls and indicators.
- Install stabilizer safety pins keeping the collar about 1" from jack. If a jack would settle, it must sit on the pin evenly.
- 7. Close stabilizer control doors.
- Reposition wheel chocks. Downhill side against tire and the uphill chock approximately 2" from tire. The aerial is ready for operations.

CAUTION:-

TAG: Electrocution Hazard - personnel not involved with the aerial operations should "stand clear."

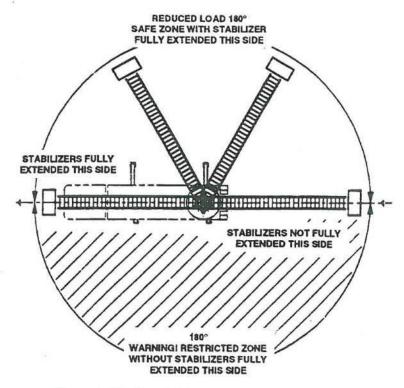


Figure 9. Horizontal Beams Extension

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APPENDIX D

FIRE APPARATUS ACCESS ROADS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION D101 GENERAL

D101.1 Scope. Fire apparatus access roads shall be in accordance with this appendix and all other applicable requirements of the *International Fire Code*.

SECTION D102 REQUIRED ACCESS

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an *approved* fire apparatus access road with an asphalt, concrete or other *approved* driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds (34 050 kg).

SECTION D103 MINIMUM SPECIFICATIONS

D103.1 Access road width with a hydrant. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm), exclusive of shoulders (see Figure D103.1).

D103.2 Grade. Fire apparatus access roads shall not exceed 10 percent in grade.

Exception: Grades steeper than 10 percent as approved by the fire chief.

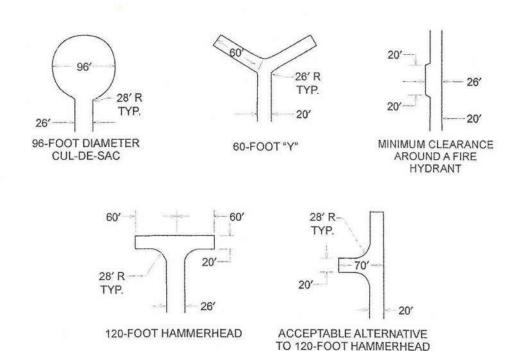
D103.3 Turning radius. The minimum turning radius shall be determined by the *fire code official*.

D103.4 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.4.

TABLE D103.4 REQUIREMENTS FOR DEADS-END FIRE APPARATUS ACCESS ROADS

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	20	None required
151-500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
501-750	26	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
Over 750	Special appr	oval required

For SI: 1 foot = 304.8 mm.



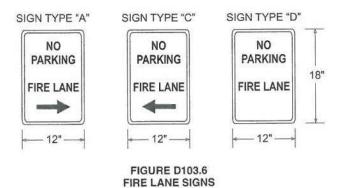
For SI: 1 foot = 304.8 mm.

FIGURE D103.1
DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND

D103.5 Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:

- 1. The minimum gate width shall be 20 feet (6096 mm).
- 2. Gates shall be of the swinging or sliding type.
- Construction of gates shall be of materials that allow manual operation by one person.
- Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
- Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access. Emergency opening devices shall be approved by the fire code official.
- 6. Manual opening gates shall not be locked with a padlock or chain and padlock unless they are capable of being opened by means of forcible entry tools or when a key box containing the key(s) to the lock is installed at the gate location.
- 7. Locking device specifications shall be submitted for approval by the fire code official.
- 8. Electric gate operators, where provided, shall be listed in accordance with UL 325.
- Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200.

D103.6 Signs. Where required by the fire code official, fire apparatus access roads shall be marked with permanent NO PARKING—FIRE LANE signs complying with Figure D103.6. Signs shall have a minimum dimension of 12 inches (305 mm) wide by 18 inches (457 mm) high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required by Section D103.6.1 or D103.6.2.



D103.6.1 Roads 20 to 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on both sides of fire apparatus access roads that are 20 to 26 feet wide (6096 to 7925 mm).

D103.6.2 Roads more than 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on one

side of fire apparatus access roads more than 26 feet wide (7925 mm) and less than 32 feet wide (9754 mm).

SECTION D104 COMMERCIAL AND INDUSTRIAL DEVELOPMENTS

D104.1 Buildings exceeding three stories or 30 feet in height. Buildings or facilities exceeding 30 feet (9144 mm) or three stories in height shall have at least two means of fire apparatus access for each structure.

D104.2 Buildings exceeding 62,000 square feet in area. Buildings or facilities having a gross building area of more than 62,000 square feet (5760 m²) shall be provided with two separate and approved fire apparatus access roads.

Exception: Projects having a gross building area of up to 124,000 square feet (11 520 m²) that have a single approved fire apparatus access road when all buildings are equipped throughout with approved automatic sprinkler systems.

D104.3 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses.

SECTION D105 AERIAL FIRE APPARATUS ACCESS ROADS

D105.1 Where required. Where the vertical distance between the grade plane and the highest roof surface exceeds 30 feet (9144 mm), approved aerial fire apparatus access roads shall be provided. For purposes of this section, the highest roof surface shall be determined by measurement to the eave of a pitched roof, the intersection of the roof to the exterior wall, or the top of parapet walls, whichever is greater.

D105.2 Width. Aerial fire apparatus access roads shall have a minimum unobstructed width of 26 feet (7925 mm), exclusive of shoulders, in the immediate vicinity of the building or portion thereof.

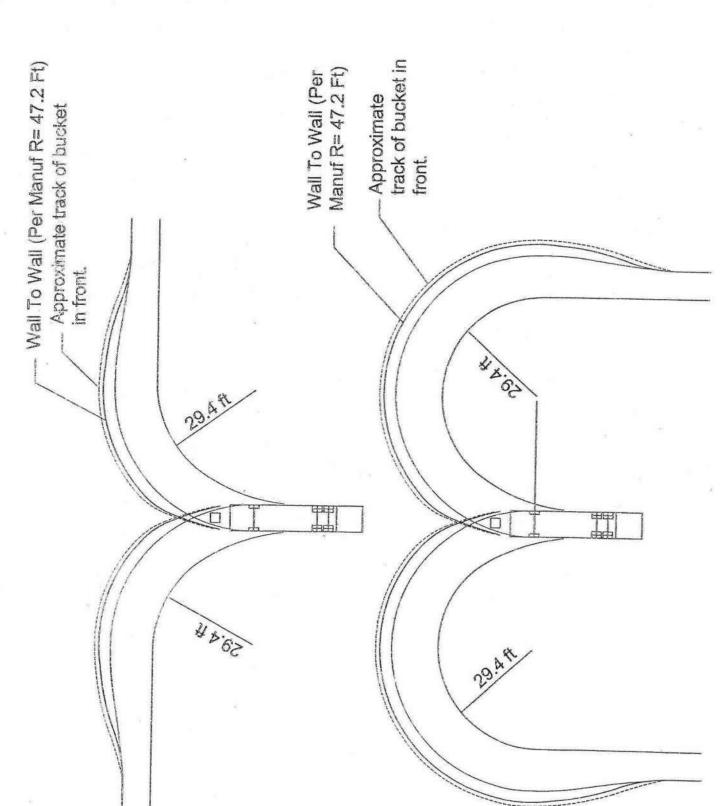
D105.3 Proximity to building. At least one of the required access routes meeting this condition shall be located within a minimum of 15 feet (4572 mm) and a maximum of 30 feet (9144 mm) from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the fire code official.

SECTION D106 MULTIPLE-FAMILY RESIDENTIAL DEVELOPMENTS

D106.1 Projects having more than 100 dwelling units. Multiple-family residential projects having more than 100 dwelling units shall be equipped throughout with two separate and approved fire apparatus access roads.

Exception: Projects having up to 200 dwelling units may have a single approved fire apparatus access road when all

2011 OHIO FIRE CODE





powered ambulance cot

Reduce the risk of injuries when raising and lowering



EMS Equipment

*s*trvker

3800 E. Centre Ave. Portage, MI 49002 U.S.A. t: 269 329 2100 f: 866 795 2233 toll free: 800 327 0770

otte)

www.ems.stryker.com

Standard Features

- · Automatic in-cot fastener shut-off
- · Manual back-up release handle
- · Automatic high-speed retract
- · Battery-powered hydraulic lift system
- · Preventative maintenance hour meter
- · Battery pack power level indicator
- · Settable load height with jog function
- Color-coded controls
- · High visibility powder-coated frame
- · Lightweight, rugged aluminum construction
- · Scientifically optimized lift bar and control design
- Lower lifting bar
- · Lift-capable safety bar
- · Integrated bumper system
- · Retractable head section
- · Floor-mounted safety hook
- · One-hand release, fold down side rails
- · One-hand release, infinite positioning, pneumatically assisted backrest
- · Oversized wheels with sealed caster and wheel bearings
- · G-rated bolster mattress
- · Shock or flat leg positioning
- · G-rated restraint package
- Built-in pull handle
- · X-frame guards
- · Power washable
- · SMRT power system (12V DC, 120V AC and 240V AC options available)

Optional Features

- · Heavy duty two- or three-stage IV poles (patient right or left)
- · Permanent or removable O, bottle holders (head end, foot end or fowler)
- · Dual wheel locks
- · Head extension
- · Pillow
- · Equipment hook
- · Backrest storage pouch
- · Head end storage flat
- · Defibrillator platform
- · Base storage net
- · Knee gatch
- SMRT charger mounting bracket
- · Power-LOADTM compatibility

Specifications

Model Number	6506
Height1 (infinite height positioning betw	ween lowest and highest position)
Highest Position	41.5 in (105 cm)
Lowest Position	14 in (36 cm)
Length	
Standard	87in (206 cm) 86" (due to oxygen b
Minimum	63 in (160 cm)
Width	23 in (58 cm)
Weight ²	125 lb (57 kg)
Wheels	No.
Diameter	6 in (15 cm)
Width	2 in (5 cm)
Articulation	
Backrest	0-73°
Shock Position	+15°
Optional Knee Gatch	30°
Maximum Weight Capacity ³	700 lb (318 kg)
Minimum Operator Required	
Occupied Cot	2
Unoccupied Cot	1
Recommended Fastener System	
Power-LOAD TM	Model 6390
Floor Mount	Model 6370 or 6377
Wall Mount	Model 6371
Recommended Loading Height ⁴	Up to 36 in (91 cm)

Warranty

- · Two-year parts, labor and travel
- One-year soft goods
- · Three-year X-frame components
- · Three-year limited powertrain
- · Lifetime on all welds*

Extended warranties available.

Stryker reserves the right to change specifications without notice.

In-service video included with every order.

The Power-PRO XT is designed to conform to the Federal Specification for the Star-of-Life Ambulance KKK-A-1822.

The Power-PRO XT is designed to be compatible with competitive cot fastener systems.

The yellow and black color scheme is a proprietary trademark of the Stryker Corporation.

Patents pending.





Mkt Lit-152 Rev F

⁷⁻year service life.

¹ Height measured from bottom of mattress, at seat section, to ground level.

²Cot is weighed with one battery pack, without mattress and restraints.

³700 lb weight capacity with an unassisted lift capacity of 500 lb (Cot loads over 300 lb (136 kg) may require additional assistance to meet the set cot load height).

⁴Can accommodate load decks up to 36 in. Load height can be set between 26 in and 36 in.

OHIO ADMINISTRATIVE CODE 1301:7-7-05

FIRE SERVICE FEATURES

(A) SECTION 501 GENERAL

- (1) 501.1 Scope. Fire service features for buildings, structures and premises shall comply with this *rule*.
- (2) 501.2 Permits. A permit shall be required as set forth in rule 1301:7-7-01 of the Administrative Code.
- (3) 501.3 Construction documents. Construction documents for proposed fire apparatus access, location of fire lanes, security gates across fire apparatus access and construction documents and hydraulic calculations for fire hydrant systems shall be submitted to the fire department for review and approval prior to construction.
- (4) 501.4 Timing of installation. When fire apparatus access roads or a water supply for fire protection is required to be installed, such protection shall be installed and made serviceable prior to and during the time of construction except when approved alternative methods of protection are provided. Temporary street signs shall be installed at each street intersection when construction of new roadways allows passage by vehicles in accordance with paragraph (E)(2)(505.2) of this rule.

(B) SECTION 502 DEFINITIONS

- (1) 502.1 Definitions. The following words and terms shall, for the purposes of this *rule* and as used elsewhere in this code, have the meanings shown herein.
- "Fire apparatus access road." Same as "Fire Lane" as defined in this paragraph.
- "Fire command center." The principal attended or unattended location where the status of the detection, alarm communications and control systems is displayed, and from which the system(s) can be manually controlled.
- "Fire department master key." A limited issue key of special or controlled design to be carried by fire department officials in command which will open key boxes on specified properties.
- "Fire lane." A road or other passageway developed to allow the passage of fire apparatus. A fire lane is not necessarily intended for vehicular traffic other than fire apparatus. A fire lane shall not be interpreted to mean a residential and/or public street.
- "Key box." A secure device with a lock operable only by a fire department master key, and containing building entry keys and other keys that may be required for access in an emergency.

(C) SECTION 503 FIRE APPARATUS ACCESS ROADS

- (1) 503.1 Where required. Fire apparatus access roads shall be provided and maintained in accordance with *paragraphs* (C)(1)(a)(503.1.1) to (C)(1)(c) (503.1.3) of this rule.
 - (a) 503.1.1 Buildings and facilities. Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction which are not readily accessible from a public and/or private street. The fire apparatus access road shall comply with the requirements of this paragraph and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.

Exception: The fire code official is authorized to increase the dimension of 150 feet (45 720 mm) where:

- 1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with paragraph (C)(3)(a)(i) (903.3.1.1), (C)(3)(a)(ii)(903.3.1.2) or (C)(3)(a) (iii)(903.3.1.3) of rule 1301:7-7-09 of the Administrative Code.
- Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an approved alternative means of fire protection is provided.
- There are not more than two Group R-3 or Group U occupancies.
- (b) 503.1.2 Additional access. The fire code official is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.
- (c) 503.1.3 High-piled storage. Fire department vehicle access to buildings used for high-piled combustible storage shall comply with the applicable provisions of *rule 1301:7-7-23 of the Administrative Code*.
- (2) 503.2 Specifications. Fire apparatus access roads shall be installed and arranged in accordance with *paragraphs* (C)(2)(a)(503.2.1) to (C)(2)(h)(503.2.8) of this rule.
 - (a) 503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm), exclusive of shoulders, except for approved security gates in accordance with *paragraph* (C)(6)(503.6) of this rule, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).

KFD REquires 25' for operation of truck. 77

- (b) 503.2.2 Authority. The fire code official shall have the authority to require an increase in the minimum access widths where they are inadequate for fire or rescue operations.
- (c) 503.2.3 Surface. Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.
- (d) 503.2.4 Turning radius. The required turning radius of a fire apparatus access road shall be determined by the fire code official.
- (e) 503.2.5 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) in length shall be provided with an approved area for turning around fire apparatus.
- (f) 503.2.6 Bridges and elevated surfaces. Where a bridge or an elevated surface is part of a fire apparatus access road, the bridge shall be constructed and maintained in accordance with AASHTO HB-17 as listed in rule 1301:7-7-47 of the Administrative Code. Bridges and elevated surfaces shall be designed for a live load sufficient to carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances to bridges when required by the fire code official. Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces which are not designed for such use, approved barriers, approved signs or both shall be installed and maintained when required by the fire code official.
- (g) 503.2.7 Grade. The grade of the fire apparatus access road shall be within the limits established by the fire code official based on the fire department's apparatus.
- (h) 503.2.8 Angles of approach and departure. The angles of approach and departure for fire apparatus access roads shall be within the limits established by the fire code official based on the fire department's apparatus.
- (3) 503.3 Marking. Where required by the fire code official, approved signs or other approved notices or markings that include the words "NO PARKING—FIRE LANE" shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.
- (4) 503.4 Obstruction of fire apparatus access roads. Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in *paragraph* (C)(2)(a)(503.2.1) of this rule shall be maintained at all times.
- (5) 503.5 Required gates or barricades. The fire code official is authorized to require the installation and maintenance of gates or other approved barricades across fire apparatus access roads, trails or other accessways, not including public streets, alleys or highways. Electric gate operators, where provided, shall be listed in accordance with UL 325 as listed in rule 1301:7-7-47 of the Administrative Code. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of

ASTM F 2200 as listed in rule 1301:7-7-47 of the Administrative Code.

(a) 503.5.1 Secured gates and barricades. When required, gates and barricades shall be secured in an approved manner. Roads, trails and other accessways that have been closed and obstructed in the manner prescribed by paragraph (C)(5)(503.5) of this rule shall not be trespassed on or used unless authorized by the owner and the fire code official.

Exception: The restriction on use shall not apply to public officers acting within the scope of duty.

(6) 503.6 Security gates. The installation of security gates across a fire apparatus access road shall be approved by the fire chief. Where security gates are installed, they shall have an approved means of emergency operation. The security gates and the emergency operation shall be maintained operational at all times. Electric gate operators, where provided, shall be listed in accordance with UL 325 as listed in rule 1301:7-7-47 of the Administrative Code. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200 as listed in rule 1301:7-7-47 of the Administrative Code.

(D) SECTION 504 ACCESS TO BUILDING OPENINGS AND ROOFS

- (1) 504.1 Required access. Exterior doors and openings required by this *rule* or the *building code as listed in rule* 1301:7-7-47 of the Administrative Code shall be maintained readily accessible for emergency access by the fire department. An approved access walkway leading from fire apparatus access roads to exterior openings shall be provided when required by the fire code official.
- (2) 504.2 Maintenance of exterior doors and openings. Exterior doors and their function shall not be eliminated without prior approval. Exterior doors that have been rendered nonfunctional and that retain a functional door exterior appearance shall have a sign affixed to the exterior side of the door with the words "THIS DOOR BLOCKED." The sign shall consist of letters having a principal stroke of not less than ³/₄ inch (19.1 mm) wide and at least 6 inches (152 mm) high on a contrasting background. Required fire department access doors shall not be obstructed or eliminated. Exit and exit access doors shall comply with rule 1301:7-7-10 of the Administrative Code. Access doors for high-piled combustible storage shall comply with paragraph (F)(6)(a)(2306.6.1) of rule 1301:7-7-23 of the Administrative Code.
- (3) 504.3 Stairway access to roof. New buildings four or more stories in above grade plane, except those with a roof slope greater than four units vertical in 12 units horizontal (33.3-per cent slope), shall be provided with a stairway to the roof. Stairway access to the roof shall be in accordance with paragraph (I)(12)(1009.12) of rule 1301:7-7-10 of the Administrative Code. Such stairway shall be marked at street and floor levels with a sign indicating that the stairway continues to the roof. Where roofs are used for roof gardens or for other purposes, stairways shall be provided as required for such occupancy classification.

(E) SECTION 505 PREMISES IDENTIFICATION

- (1) 505.1 Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 4 inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure.
- (2) 505.2 Street or road signs. Streets and roads shall be identified with approved signs. Temporary signs shall be installed at each street intersection when construction of new roadways allows passage by vehicles. Signs shall be of an approved size, weather resistant and be maintained until replaced by permanent signs.

(F) SECTION 506 KEY BOXES

- (1) 506.1 When required. Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or firefighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type and shall contain keys to gain necessary access as required by the fire code official.
 - (a) 506.1.1 Locks. An approved lock shall be installed on gates or similar barriers when required by the fire code official.
- (2) 506.2 Key box maintenance. The operator of the building shall immediately notify the fire code official and provide the new key when a lock is changed or rekeyed. The key to such lock shall be secured in the key box.

(G) SECTION 507 FIRE PROTECTION WATER SUPPLIES

- (1) 507.1 Required water supply. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises upon which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction.
- (2) 507.2 Type of water supply. A water supply shall consist of reservoirs, pressure tanks, elevated tanks, water mains or other fixed systems capable of providing the required fire flow.
 - (a) 507.2.1 Private fire service mains. Private fire service mains and appurtenances shall be installed in accordance with NFPA 24 as listed in rule 1301:7-7-47 of the Administrative Code.

- (b) 507.2.2 Water tanks. Water tanks for private fire protection shall be installed in accordance with NFPA 22 as listed in rule 1301:7-7-47 of the Administrative Code.
- (3) 507.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an approved method.
- (4) 507.4 Water supply test. The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official or approved documentation of the test shall be provided to the fire code official prior to final approval of the water supply system.
- (5) 507.5 Fire hydrant issues systems. Fire hydrant systems shall comply with *paragraphs* (G)(5)(a)(507.5.1) to (G)(5)(f) (507.5.6) of this rule.
 - (a) 507.5.1 Where required. Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.

Exceptions:

- For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m).
- For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with paragraph (C)(3)(a)(i) (903.3.1.1) or (C)(3)(a)(ii) (903.3.1.2) of rule 1301:7-7-09 of the Administrative Code, the distance requirement shall be 600 feet (183 m).
- (b) 507.5.2 Inspection, testing and maintenance. Fire hydrant systems shall be subject to periodic tests as required by the fire code official. Fire hydrant systems shall be maintained in an operative condition at all times and shall be repaired where defective. Additions, repairs, alterations and servicing shall comply with approved standards.
- (c) 507.5.3 Private fire service mains and water tanks. | Private fire service mains and water tanks shall be periodically inspected, tested and maintained in accordance with NFPA 25 as listed in rule 1301:7-7-47 of the Administrative Code at the following intervals:
 - Private fire hydrants (all types): Inspection annually and after each operation; flow test and maintenance annually.
 - (ii) Fire service main piping: Inspection of exposed, annually; flow test every 5 years.
 - (iii) Fire service main piping strainers: Inspection and maintenance after each use.
- (d) 507.5.4 Obstruction. Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.
- (e) 507.5.5 Clear space around hydrants. A 3-foot (914 mm) clear space shall be maintained around the circumfer-

11

ence of fire hydrants except as otherwise required or approved.

(f) 507.5.6 Physical protection. Where fire hydrants are subject to impact by a motor vehicle, guard posts or other approved means shall comply with paragraph (L)(312) of rule 1301:7-7-03 of the Administrative Code.

(H) SECTION 508 FIRE COMMAND CENTER

- (1) 508.1 Where required. Where required by other paragraphs of this code and in all buildings classified as high-rise
 buildings by the building code as listed in rule 1301:7-7-47 of the Administrative Code, a fire command center for fire department operations shall be provided and shall comply with paragraphs (H)(1)(a)(508.1.1) to (H)(1)(e)(508.1.5) of this rule.
 - (a) 508.1.1 Location and access. The location and accessibility of the fire command center shall be approved by the fire *code official*.
 - (b) 508.1.2 Separation. The fire command center shall be separated from the remainder of the building by not less than a 1-hour fire barrier constructed in accordance with section 707 of the building code as listed in rule 1301:7-7-47 of the Administrative Code or horizontal assembly constructed in accordance with section 712 of the building code as listed in rule 1301:7-7-47 of the Administrative Code, or both.
 - (c) 508.1.3 Size. The fire command center shall be a minimum of 200 square feet (19 m²) with a minimum dimension of 10 feet (3048 mm).
 - (d) 508.1.4 Layout approval. A layout of the fire command center and all features required by this *paragraph* to be contained therein shall be submitted for approval prior to installation.
 - (e) 508.1.5 Required features. The fire command center shall comply with NFPA 72 as listed in rule 1301:7-7-47 of the Administrative Code and shall contain the following features:
 - The emergency voice/alarm communication system unit.
 - (ii) The fire department communications system.
 - (iii) Fire-detection and alarm system annunciator.
 - (iv) Annunciator unit visually indicating the location of the elevators and whether they are operational.
 - (v) Status indicators and controls for air distribution systems.
 - (i) The fire-fighter's control panel required by paragraph (I)(16)(909.16) of rule 1301:7-7-09 of the Administrative Code for smoke control systems installed in the building.
 - (vii) Controls for unlocking stairway doors simultaneously.
 - (viii) Sprinkler valve and water-flow detector display panels.

- (ix) Emergency and standby power status indicators.
- (x) A telephone for fire department use with controlled access to the public telephone system.
- (xi) Fire pump status indicators.
- (xii) Schematic building plans indicating the typical floor plan and detailing the building core, means of egress, fire protection systems, fire-fighting equipment and fire department access, and the location of fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions.
- (xiii) Work table.
- (xiv) Generator supervision devices, manual start and transfer features.
- (xv) Public address system, where specifically required by other *paragraphs* of this code.
- (xvi) Elevator fire recall switch in accordance with ASME A17.1 as listed in rule 1301:7-7-47 of the Administrative Code.
- (xvii) Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.

(I) SECTION 509 FIRE PROTECTION EQUIPMENT IDENTIFICATION AND ACCESS

- (1) 509.1 Identification. Fire protection equipment shall be identified in an approved manner. Rooms containing controls for air conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. Approved signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.
- (2) 509.2 Equipment access. Approved access shall be provided and maintained for all fire protection equipment to permit immediate safe operation and maintenance of such equipment. Storage, trash and other materials or objects shall not be placed or kept in such a manner that would prevent such equipment from being readily accessible.

(J) SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE

(1) 510.1 Emergency responder radio coverage in buildings. All buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This paragraph shall not require improvement of the existing public safety communication systems.

Exceptions:

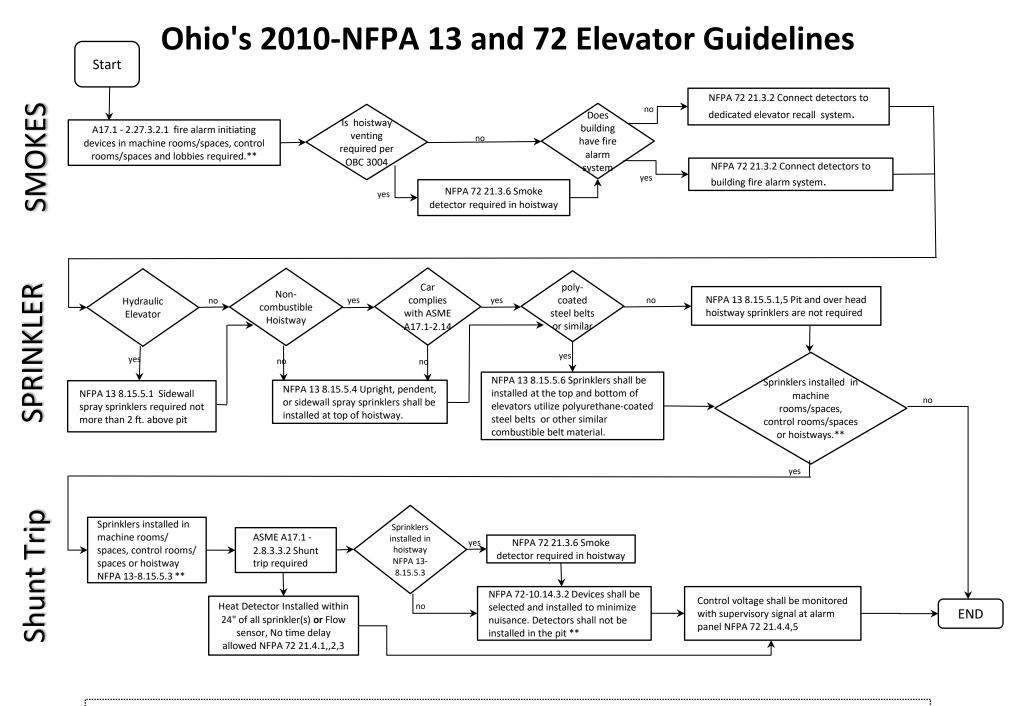
1. Where approved by the building official and the fire code official, a wired communication system in accordance with paragraph (G)(2)(m)(ii) (907.2.13.2) of rule 1301:7-7-09 of the Administra-

- tive Code shall be permitted to be installed or maintained in lieu of an approved radio coverage system.
- Where it is determined by the fire code official that the radio coverage system is not needed.
- (2) 510.2 Radio signal strength. The building shall be considered to have acceptable emergency responder radio coverage when signal strength measurements in 95 per cent of all areas on each floor of the building meet the signal strength requirements in paragraphs (J)(2)(a)(510.2.1) and (J)(2)(b) (510.2.2) of this rule.
 - (a) 510.2.1 Minimum signal strength into the building. A minimum signal strength of -95 dBm shall be receivable within the building.
 - (b) 510.2.2 Minimum signal strength out of the building. A minimum signal strength of -100 dBm shall be received by the agency's radio system when transmitted from within the building.
- (3) 510.3 Emergency responder radio coverage in existing buildings. Existing buildings that do not have approved radio coverage for emergency responders within the building shall be equipped with such coverage according to one of the following:
 - (a) Wherever existing wired communication system cannot be repaired or is being replaced, or where not approved in accordance with paragraph (J)(1)(510.1), exception 1 of this rule.
 - (b) Within a time frame established by the adopting authority.

Effective Date: November 1, 2011

Prior Effective Dates: 7/1/79; 6/1/85; 6/15/92; 7/1/93; 9/1/95; 1/9/98; 3/30/98; 11/20/98; 1/3/00; 9/1/05; 7/1/07

2011 OHIO FIRE CODE 81



^{**}It is important to define the space in which the above devices are installed, for example: controls, drives and other equipment that are typically installed in a traditional machine room are now being installed in the pits and top of hoistways and those areas are now defined as machine/control spaces which would require elevator recall devices. NFPA 72 - 21.3.12.1,2

2010 NFPA 13 & 72 Elevator Guidelines (smokes, heats, sprinklers, fire recall and supervisory panel)

The following are the guidelines that the State of Ohio Elevator Section will follow for sprinklers, heat and smoke detectors installed for Elevator recall and shunt trip operation. It is important to know how other codes interface with the elevator installation and inspectors should be aware of such connections. Even if the following requirements fall under other disciplines and jurisdictions, it is important to understand the big picture and how other codes related to a proper elevator installation.

Sprinkler Installed	Above 24" - pit area**	Below 24" - pit area **	Top of Hoistway **	Machine Room/Space	Elevator Lobby
Heat Detector Required	Violation	Violation NFPA	•	Required	NA
	NFPA 13 - 8.15, NFPA 72 - 21.3.3.	72 - 21.3.3, 10.14.3.2	NFPA 72 21.4.2	NFPA 72 21.4.2	
Smoke Detector Required	Violation	Violation	Required	Required	Required
Smoke Detector Required	NFPA 13 - 8.15, NFPA 72 - 21.3.3.	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 21.3.3	NFPA 72 21.3.3	NFPA 72 21.3.3,7
Sprinkler Not Installed	Above 24" - pit area**	Below 24" - pit area **	Top of Hoistway **	Machine Room/Space	Elevator Lobby
Smake Detector Required	Violation	Violation	Violation	Required	Required
Smoke Detector Required	Violation NFPA 72 - 21.3.3, 10.14.3.2	Violation NFPA 72 - 21.3.3, 10.14.3.2	Violation NFPA 72 21.3.6	Required NFPA 72 21.3.3	Required NFPA 72 21.3.3,7
Smoke Detector Required Polyurethane-Coated Steel Belt Suspension				•	•
Polyurethane-Coated Steel	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 21.3.6 Top of Hoistway **	NFPA 72 21.3.3	NFPA 72 21.3.3,7

It is important to **define the space in which the above devices are installed, for example: controls, drives and other equipment that are typically installed in a traditional machine room are now being installed in the pits and top of hoistways and those areas are now defined as machine/control spaces which would require elevator recall devices. NFPA 72 - 21.3.12.1,2

machinery space, elevator: a space inside or outside the hoistway, intended to be accessed with or without full bodily entry, that contains elevator mechanical equipment, and could also contain electrical equipment used directly in connection with the elevator. This space could also contain the electric driving machine or the hydraulic machine. ASME A17.1

Sprinklers located in elevator equipment rooms/spaces and hoistways are a requirement of the building code. The elevator code does not mandate the installation of these devices. ASME A17.1 Req. 2.8.3.3 states that sprinklers are permitted when required by the building code. The elevator code does set limits on what can be allowed within a hoistway or equipment room/space.

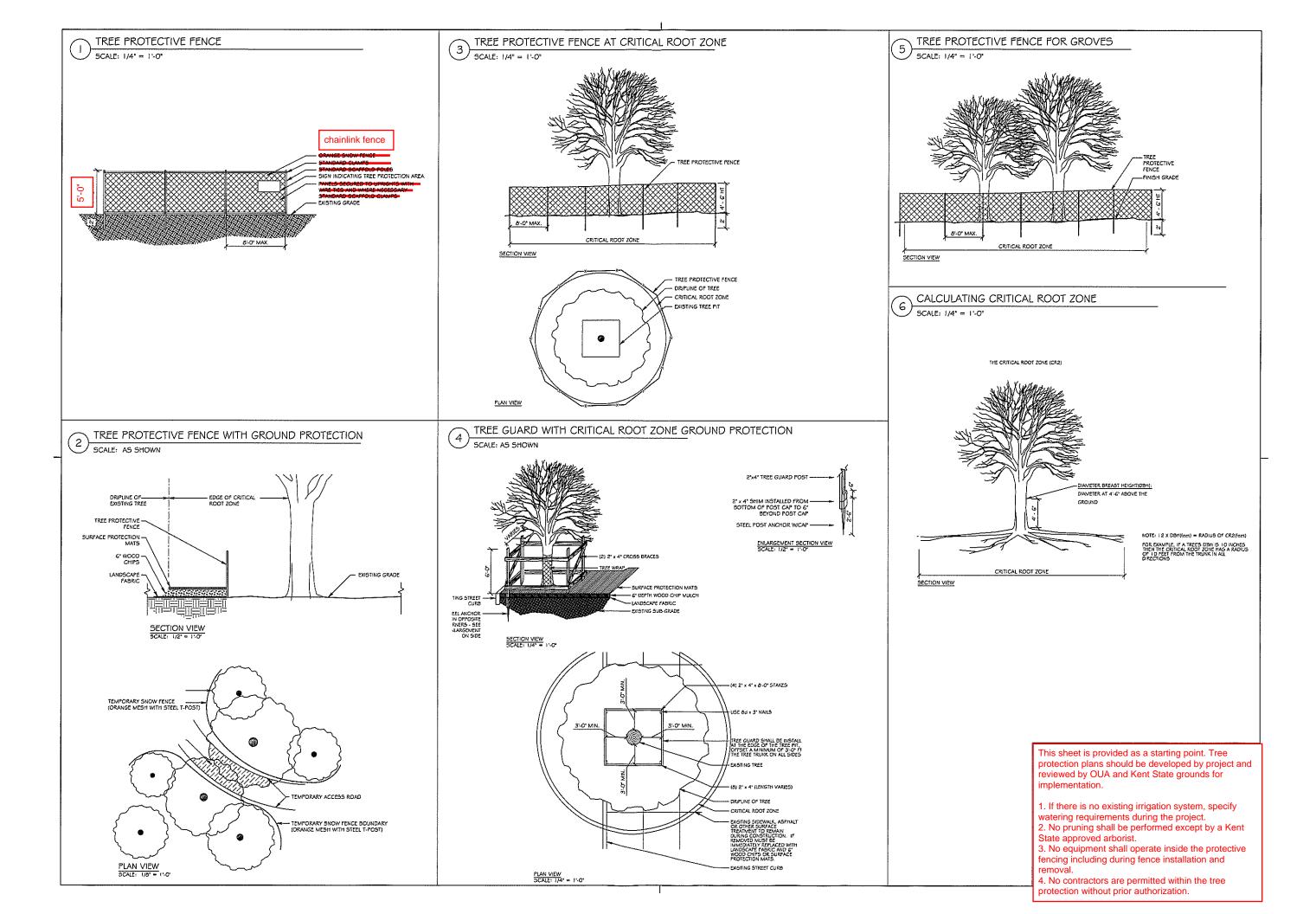
ASME A17.1 2.8.3 All **risers** are to be located outside the hoistway or room/space except where a machine room is located above the roofline of a building the riser is limited to the distance between the top floor and the room/space. Sprinklers located 24" or less above the pit floor, all wiring and electrical components located within 48" from the pit floor must be rated as **NEMA 4** and wiring must be suitable for wet locations. ASME A17.1 triggers the **shunt-trip** requirement when sprinklers are located in such areas related to the elevator. (Note: there are exceptions to the sprinkler requirements for Fire Service Access Elevators and Occupancy Evacuation Elevators: see IBC Sections 3007 and 3008 respectively.)

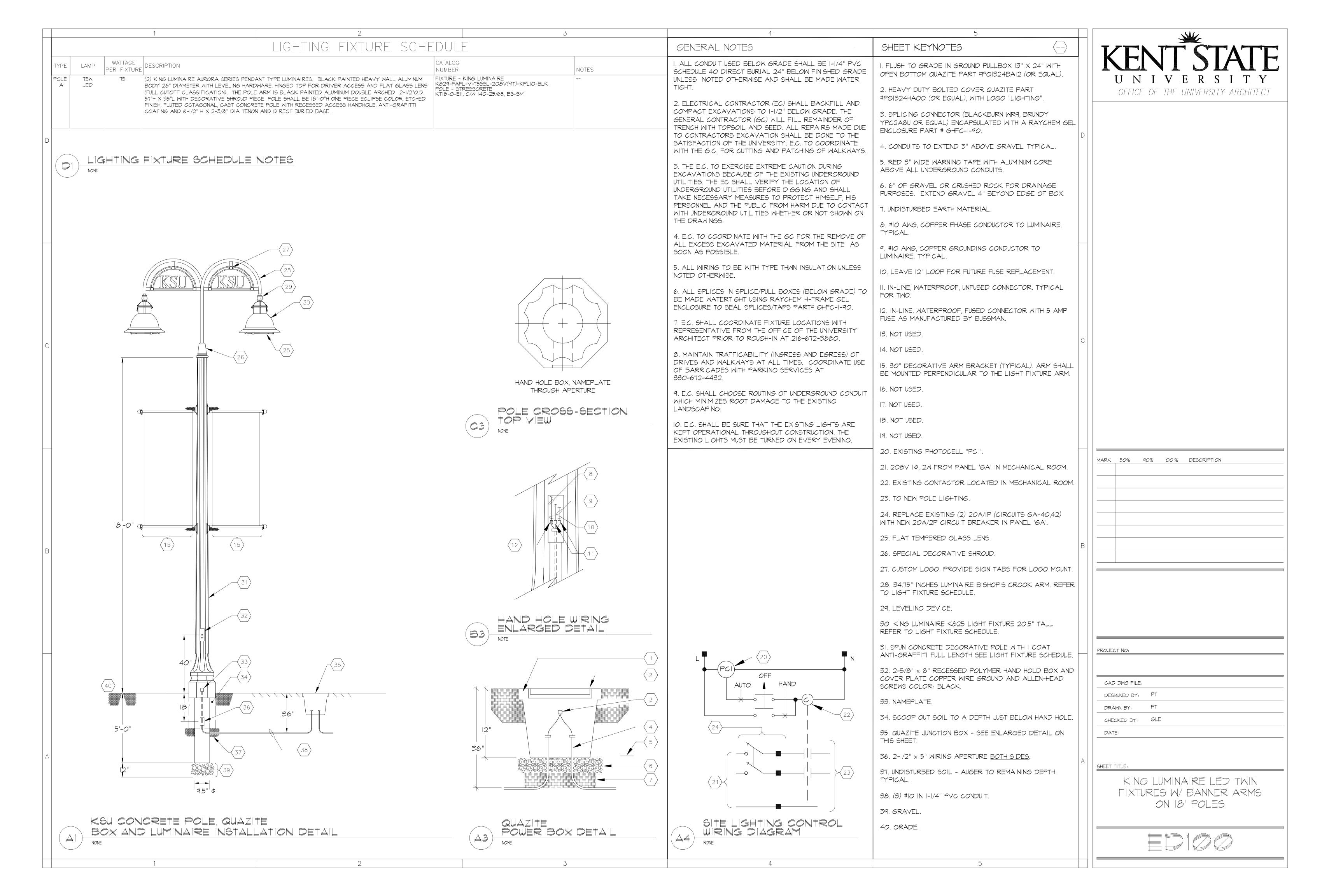
2013 edition of NFPA 13 (not adopted in OHIO), a new requirement was added to deal with combustible suspension means (i.e. elastomeric-coated steel belts). In such instances, sprinkler heads are required at the top and bottom of the hoistway. There is an exception; if the suspension means is tested and complies with UL 62 and UL 1581, sprinkler heads are not required.

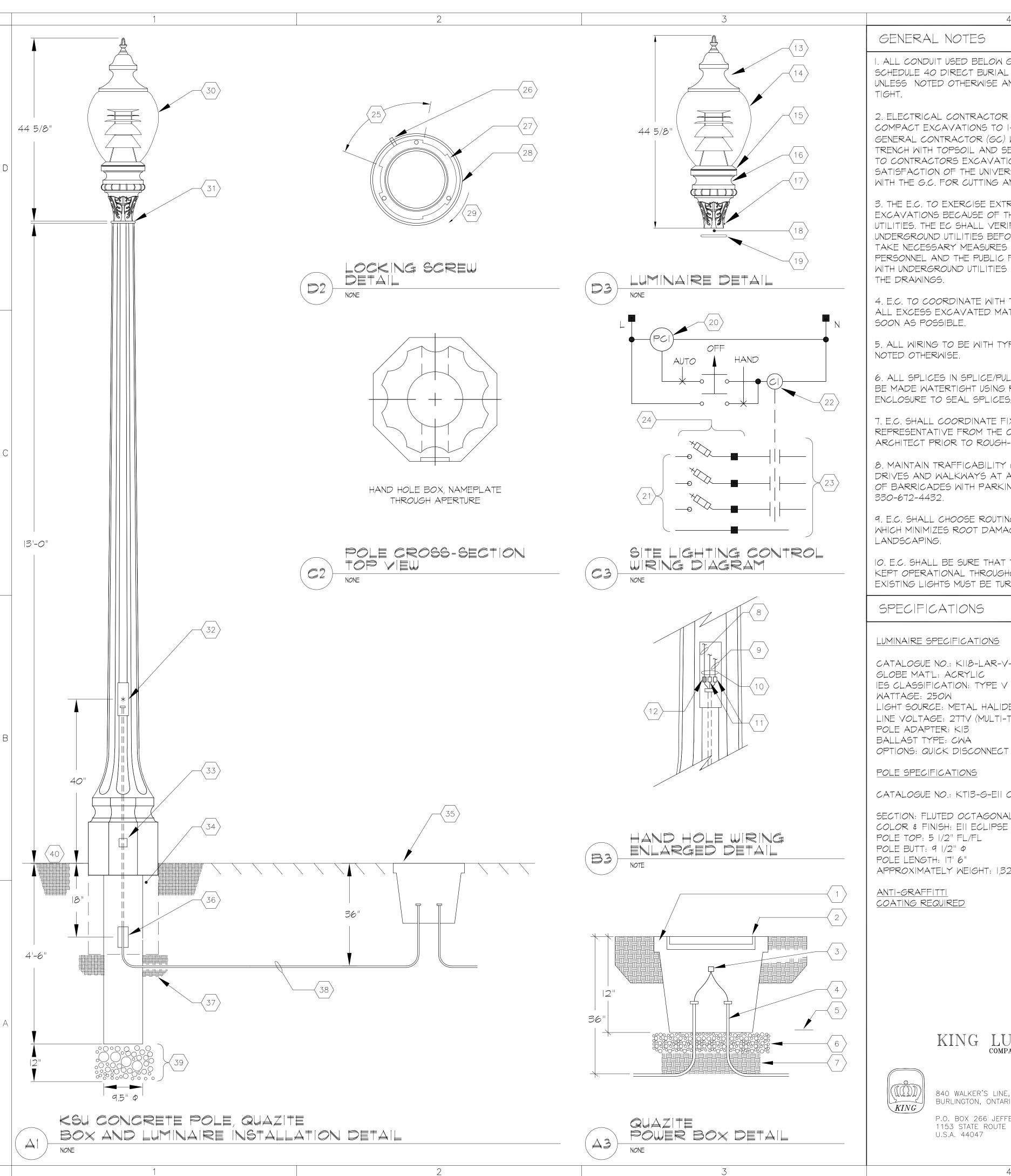
2010 NFPA 13 & 72 Elevator Guidelines Quick Code reference

	NFPA 13 (SPRINKLERS)								
8.15.5.1	Sidewall spray sprinklers required not more than 2 ft. above pit floor.								
8.15.5.2	Pit sprinklers below 2 ft. are not required for non-combustible elevator hoistway without combustible hydraulic fluids.								
8.15.5.3	Automatic sprinklers in machine room and hoistways shall be ordinary or intermediate temp rating.								
8.15.5.4	Upright, pendent, or sidewall spray sprinklers shall be installed at top of hoistway.								
8.15.5.5	Over head hoistway sprinklers are not required for noncombustible or limited-combustible and cab enclosure meets ASME A17.1 requirements.								
0.45.5.6	Sprinklers shall be installed at the top and bottom of elevator hoistways where elevators utilize polyurethane-coated steel belts or other similar combustible								
8.15.5.6	belt material.								

	NFPA 72 (SMOKES AND HEATS)								
10.3.1	Fire alarm system and supporting equipment designed and labeled for intended use.								
10.4.1.1	Fire alarm system and supporting equipment designed, constructed and installed in conformance with the code.								
10.4.2.1									
10.5.3.2	Fire alarm system shall be provided with at least two independent and reliable power supplies.								
10.14.2.4	Equipment shall not be install in locations exceeding voltage, temp, and humidity of device.								
10 14 2 2	Devices shall be selected and installed to minimize nuisance. Detectors shall not be installed in the pit area because they have been determined to be a nuisance								
10.14.3.2	alarm due to sweeping, dust and air movement. See also NFPA 72 17.7.1.9								
10.17.1	Monitoring Integrity of Installation Conductors and Other Signaling Channels.								
21.2.6	Wiring The installation of all wiring, cable, and equipment shall be in accordance with NFPA 70								
21.3.2	In facilities without a building fire alarm system, these smoke detectors or other automatic fire detection shall be connected to a dedicated fire alarm system								
21.5.2	control unit that shall be designated as "elevator recall control and supervisory panel".								
21.3.3	Only the elevator lobby, hoistways and machine room/space smoke detectors shall be used to recall elevators.								
21.3.5	Lobby smoke detectors shall be with in 21 ft. of the center line of doors with in each bank.								
21.3.6	Smoke detectors shall not be installed in unsprinklered hoistways unless for smoke relief equipment . (exception: Hoistway/pit = machine, control space)								
	If ambient conditions prohibit installation of smoke detectors, other fire detection shall be permitted ie: open areas, parking garages, and industrial								
	applications. Per local AHJ. Pit and hoistway location of these detectors will likely need to be below the lowest level of recall in order to provide an adequate								
21.3.7	response of early detection of fire. Since there is no real ceiling in the pit to allow installation using the spacing provisions of Chapter 17, the provisions of								
	17.7.3.1.3 and 17.4.10 should be considered, which allows detectors to be placed closer to the hazard in a position where the detector can intercept the smoke								
	or heat. Also refer to A.21.3.14.2(3)								
21.3.8	All fire fighters initiating devices shall annunciate at the building fire alarm control unit.								
21.3.9	All fire fighters initiating devices shall cause separate and distinct visible annunciation.								
21.3.12.1,2,	Designated, Alternate and Flashing Hat level recall requirements.								
21.4.1	Heat detectors used for shunt shall have lower temp rating than sprinkler.								
21.4.2	Heat detectors used for shunt shall be with in 24 " of sprinkler head.								
21.4.3	Pressure or water flow switches in lieu of heat detectors								
21.4.4,5	Control circuits to shutdown elevator power shall be monitored for presence of operating voltage. Loss of voltage to the control circuit for the disconnecting								
21.4.4,5	means shall cause a supervisory signal to be indicated at the control unit and required annunciators.								
21.5	First Responders use elevators requirements (Fire Service Access Elevator OBC 3007)								
21.6	Elevators for Occupant- control Evacuation requirements (OBC 3008)								







GENERAL NOTES

ALL CONDUIT USED BELOW GRADE SHALL BE 1-1/4" PVC SCHEDULE 40 DIRECT BURIAL 24" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE AND SHALL BE MADE WATER TIGHT.

2. ELECTRICAL CONTRACTOR (EC) SHALL BACKFILL AND COMPACT EXCAVATIONS TO 1-1/2" BELOW GRADE. THE GENERAL CONTRACTOR (GC) WILL FILL REMAINDER OF TRENCH WITH TOPSOIL AND SEED. ALL REPAIRS MADE DUE TO CONTRACTORS EXCAVATION SHALL BE DONE TO THE SATISFACTION OF THE UNIVERSITY. E.C. TO COORDINATE WITH THE G.C. FOR CUTTING AND PATCHING OF WALKWAYS.

3. THE E.C. TO EXERCISE EXTREME CAUTION DURING EXCAVATIONS BECAUSE OF THE EXISTING UNDERGROUND UTILITIES. THE EC SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE DIGGING AND SHALL TAKE NECESSARY MEASURES TO PROTECT HIMSELF, HIS PERSONNEL AND THE PUBLIC FROM HARM DUE TO CONTACT WITH UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS.

4. E.C. TO COORDINATE WITH THE GC FOR THE REMOVE OF ALL EXCESS EXCAVATED MATERIAL FROM THE SITE AS SOON AS POSSIBLE.

5. ALL WIRING TO BE WITH TYPE THWN INSULATION UNLESS NOTED OTHERWISE.

6. ALL SPLICES IN SPLICE/PULL BOXES (BELOW GRADE) TO BE MADE WATERTIGHT USING RAYCHEM H-FRAME GEL ENCLOSURE TO SEAL SPLICES/TAPS PART# GHFC-1-90.

7. E.C. SHALL COORDINATE FIXTURE LOCATIONS WITH REPRESENTATIVE FROM THE OFFICE OF THE UNIVERSITY ARCHITECT PRIOR TO ROUGH-IN AT 216-672-3880.

8. MAINTAIN TRAFFICABILITY (INGRESS AND EGRESS) OF DRIVES AND WALKWAYS AT ALL TIMES. COORDINATE USE OF BARRICADES WITH PARKING SERVICES AT 330-672-4432.

9. E.C. SHALL CHOOSE ROUTING OF UNDERGROUND CONDUIT WHICH MINIMIZES ROOT DAMAGE TO THE EXISTING LANDSCAPING.

10. E.C. SHALL BE SURE THAT THE EXISTING LIGHTS ARE KEPT OPERATIONAL THROUGHOUT CONSTRUCTION. THE EXISTING LIGHTS MUST BE TURNED ON EVERY EVENING.

SPECIFICATIONS

LUMINAIRE SPECIFICATIONS

CATALOGUE NO.: KII8-LAR-V-250(MOG)-MH-277(MT)-KI3 GLOBE MAT'L: ACRYLIC IES CLASSIFICATION: TYPE V WATTAGE: 250W LIGHT SOURCE: METAL HALIDE LINE VOLTAGE: 277V (MULTI-TAP) POLE ADAPTER: KI3 BALLAST TYPE: CWA

POLE SPECIFICATIONS

CATALOGUE NO.: KTI3-G-EII C/W 140-35/40

SECTION: FLUTED OCTAGONAL COLOR & FINISH: EII ECLIPSE BLACK-100-BF POLE TOP: 5 1/2" FL/FL POLE BUTT: 9 1/2" Φ POLE LENGTH: 17' 6" APPROXIMATELY WEIGHT: 1,326 lbs.

ANTI-GRAFFITTI COATING REQUIRED

KING LUMINAIRE



840 WALKER'S LINE, P.O. BOX 7, BURLINGTON, ONTARIO, CANADA L7R 3X9 P.O. BOX 266 JEFFERSON, OHIO 1153 STATE ROUTE 46N U.S.A. 44047

SHEET KEYNOTES

FLUSH TO GRADE IN GROUND PULLBOX 13" X 24" WITH OPEN BOTTOM QUAZITE PART #PG1324BA12 (OR EQUAL).

2. HEAVY DUTY BOLTED COVER QUAZITE PART #PGI324HAOO (OR EQUAL), WITH LOGO "LIGHTING".

3. SPLICING CONNECTOR (BLACKBURN WR9, BRUNDY YPC2A8U OR EQUAL) ENCAPSULATED WITH A RAYCHEM GEL ENCLOSURE PART # GHFC-1-90.

4. CONDUITS TO EXTEND 3" ABOVE GRAVEL TYPICAL.

5. RED 3" WIDE WARNING TAPE WITH ALUMINUM CORE ABOVE ALL UNDERGROUND CONDUITS.

6.6" OF GRAVEL OR CRUSHED ROCK FOR DRAINAGE PURPOSES. EXTEND GRAVEL 4" BEYOND EDGE OF BOX.

7. UNDISTURBED EARTH MATERIAL.

8. #10 AWG, COPPER PHASE CONDUCTOR TO LUMINAIRE.

9. #10 AWG, COPPER GROUNDING CONDUCTOR TO LUMINAIRE. TYPICAL.

10. LEAVE 12" LOOP FOR FUTURE FUSE REPLACEMENT.

II. IN-LINE, WATERPROOF, UNFUSED CONNECTOR. TYPICAL FOR TWO.

12. IN-LINE, WATERPROOF, FUSED CONNECTOR WITH 5 AMP FUSE AS MANUFACTURED BY BUSSMAN.

13. #1 FINIAL CAST ALUM. PAINT: BLACK.

14. KII8 ACRYLIC GLOBE C/W TYPE V LOUVER ASSEMBLY.

15. CAST ALUM. ROTO-LOCK GLOBE RING ASSEMBLY PAINT: BLACK.

16. KI3 CAPITAL CAST ALUMINUM PAINT: BLACK.

17. (3) 3/8" x 3/4"L STAINLESS STEEL CUP-TIP SET SCREWS @ 120° APART.

18. TO ACCEPT A 3 1/2" O.D. TENON x 3 1/2" LONG.

19.6" Φ DECORATIVE DONUT PAINT: BLACK.

20. PHOTOCELL "PCI".

21. 277V 3P, 4W FROM PANEL IN MECHANICAL ROOM.

22. CONTACTOR "CI" LOCATED IN MECHANICAL ROOM.

23. TO EXISTING AND NEW POLE LIGHTING.

24. 3 POLE, 60A FUSED DISCONNECT SWITCH.

25. LOCKING SCREW TO BE LOCATED CENTER OF THIS PORTION.

26. 3/8" $\phi \times 1/2$ "L LOCKING SCREW.

27. PRESSURE RING.

28. CAPITAL.

29. TWIST TO LOCK.

30. KII8L LUMINAIRE C/W #I FINIAL & KI3 CAPITAL (BOTH PAINT: BLACK).

31. 6" \$\phi\$ DECORATIVE DONUT PAINT: BLACK.

32. 2-5/8" x 8" RECESSED POLYMER HAND HOLD BOX AND COVER PLATE COPPER WIRE GROUND AND ALLEN-HEAD SCREWS COLOR: BLACK.

33. NAMEPLATE.

34. SCOOP OUT SOIL TO A DEPTH JUST BELOW HAND HOLE.

35. QUAZITE JUNCTION BOX - SEE ENLARGED DETAIL ON THIS SHEET.

36. 2-1/2" x 5" WIRING APERTURE BOTH SIDES.

37. UNDISTURBED SOIL - AUGER TO REMAINING DEPTH. TYPICAL.

38.(3) #10 IN 1-1/4" PVC CONDUIT.

39. GRAVEL.

40. GRADE.



OJEC	T NO:	
CAD	DWG FILE:	
DESI	GNED BY:	
DRAI	WN BY:	
CHEC	CKED BY:	
DATE	<u> </u>	
ET T	TTLE:	
		KSU STANDARD
	,	CONCRETE POLE
	,	SITE LIGHT

MARK 50% 90% 100% DESCRIPTION

Product Catalog



Passport 1000 P2

WiFi Campus Access Control Products

UFM buildings -typical Wi-Fi locksets

•70-P2-82278-BIMPS-LNL-26D ---Mortise Lock

•P2-231-IMPS-EK1-L-32D ---Retro trim: this model is used on new doors with Von Duprin exit devices

UFM controlled buildings utilize Lenel. Wi-fi locksets must be purchased through an approved Lenel dealer. Typically utilize Zenith, contact Larry Lohman

Larry Lohman Project Manager, Security Integration Zenith Systems Office (216) 518-3843 Mobile (216) 287-8767 LLohman@zenithsystems.com

Our Lenel dongle ID is 130623

Available through Authorized Channel Partners only. Contact your local PERSONA or ASSA ABLOY Door Security Solutions sales consultant for details.

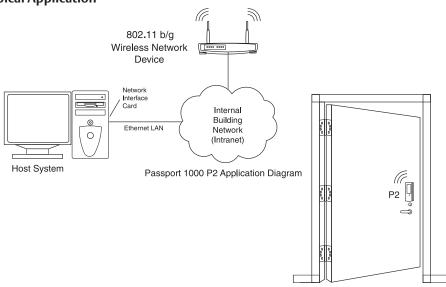




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Replacement Parts
Cylinder Options
Cylinder Options and Shipping Information
UL Listed Hurricane-Resistant Certifications & Florida Building Codes

Passport 1000 P2 Online **Wireless Ethernet Typical Application**





As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the $MicroShield ^{\circ}\ technology, a\ silver-based\ antimicrobial\ coating$ designed to inhibit the growth of bacteria. $MicroShield \mbox{\ensuremath{}^{\circ}}\ is\ a\ registered\ trademark\ of\ Yale\ Security\ Inc.,$

an ASSA ABLOY Group company.

MicroShield® Coating

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16-17

- Revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion Technologies
- As an integral part of the finish coating, MicroShield lasts for the life of the hardware
- MicroShield coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

Overview, Features and Electrical Specifications

Passport 1000 P2





Overview

An ANSI/BHMA Grade 1 lock using WiFi technology, the Passport 1000 P2 provides a cost-effective, future-proof solution for campuses. Featuring HID® multiCLASS SE® technology, it provides simultaneous support for multiple credentials and offers an easy migration path to higher security credentials and mobile access. With no wiring required, installation is fast, easy and affordable.

About ASSA ABLOY's Authorized Channel Partner and Certified Integrator Programs

The SARGENT Passport 1000 P2 is part of the expanding ASSA ABLOY family of innovative products combining our proven mechanical locking devices with leading-edge technologies to provide integrated electronic access control solutions. As such, these products require training and certification for resellers and integrators to ensure proper product selection, successful deployment and customer satisfaction.

To aid our customers in this area, ASSA ABLOY has created two programs that provide the necessary training to sell, order, install and service our technology products, including Aperio® wireless, Integrated Wiegand, IP-enabled and self-configurable intelligent components:



• The Authorized Channel Partner (ACP) program is open to resellers, who sell ASSA ABLOY's technology products to certified integrators and help with product selection based on the application.



• The Certified Integrator (CI) program provides hands-on training for security systems integrators and network administrators. Not only does this training familiarize certified integrator candidates on product features and applications, it also gives them valuable experience installing, commissioning, and troubleshooting the products in a real-world environment.

For more information on the qualifications for becoming an ACP or CI, contact your local ASSA ABLOY Door Security Solutions sales consultant for details.

Passport 1000 P2 Features

- Intelligent, integrated ANSI/BHMA Grade 1 lockset, available in cylindrical lock, mortise lock, and exit device configurations, offers the highest degree of physical security available in access control locks
- Utilizes 802.11b/g/n WiFi network infrastructure for cost-effective installations; no proprietary equipment required
- Lock holds 2,400/10,000 users * and 10,000 event audit trail
- Available with key override

Access Credentials

Magnetic Stripe:

- Read speed: 4 to 40 in/s
- · Card track: Track 2
- Card Coercivity: HiCo (4000 Oersted) or LoCo (300 Oersted)
- Time resolution on card: 1 minute
- Magnetic head lifetime: 300,000 operations

Keypad:

• PIN code: 4-digits with card, or 6-digits PIN only

Credential Reader:

- 2.4 GHz credentials:
 - Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
- 13.56 MHz credentials:
 - iCLASS®
 - iCLASS SE® (SIO-enabled)
 - iCLASS® Seos®
 - SIO on MIFARE® Classic
 - SIO on MIFARE DESfire® EV1
 - MIFARE Classic
 - DESfire EV1
 - NFC-enabled mobile phones
- 125 kHz credentials:
 - HID Prox®
- * Contact your access control system manufacturer for more information

Software

Compatible with ASSA ABLOY's PERSONA Campus™ software or with approved third party access control software.

PERSONA Campus Software

PERSONA Campus[™] Software is an advanced and flexible locking system that supports magstripe and contactless technology to provide seamless database integration and software interface with enterprise, transactional and housing systems. Campus[™] software provides customized access by user, by facility, or individual lock.

Power Specifications

- Power supply: 6 AA alkaline batteries
- Auxiliary voltage: 12VDC-24VDC
- Battery life is supervised and gives advanced warnings at low capacity

Environmental Specifications

- Operating temperature: -13°F(-25°C) to 151°F(66°C)
- Humidity: <85% non-condensing
- Storage temperature: -22°F (-30°C) to 176°F (80°C)

Accessories (contact PERSONA)

- Multitrack encoder
- Pocket PC
- Magnetic stripe cards

EAC Regulatory Compliance:

- UL294 6th Edition (not applicable to FM7300)
- CAN/ULC S319 (not applicable to FM7300)
- BHMA A156.25 (not applicable to FM7300)

90666 03/1

P2 8200 Series Mortise Locks



SARGEN I

ASSA ABLOY

Passport 1000 P2

The Passport 1000 motorized 8200 Series Mortise Lock has a clean, crisp design and is available with the SARGENT Studio Collection, Coastal Series and traditional lever designs in a full array of finishes. The mortise locks are available with or without deadbolt and with or without key override. EcoFlex™ technology offers improved battery life.

Mechanical Features

- Certified to ANSI/BHMA A156.13 Series 1000 Grade 1
- Motor driven mortise lock
- 3/4" stainless steel, anti-friction reversible latch
- For 1-3/4" (44mm) thick door standard. Consult factory for other thicknesses
- 8200 Series Levers and Roses are shown on pages 8-10
- Stainless steel non-handed deadlocking latch

- Handed lockbody, easily field reversible without opening lock body
- Lever trim through-bolted for increased security and durability
- UL/ULC Listed for use on fire doors*
- Hurricane-Resistant Certifications listed on page 17
- Batteries included

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

Passport 1000 P2 Mortise Lock Functions

Standard P2-Mortise feature:

- Outside lever rigid except when in "passage" mode or valid user code entered
- · Trim inside always retracts latch and/or deadbolt
- Guardbolt deadlocks latch
- Request-to-Exit: monitoring inside lever
- Latchbolt Monitoring: monitors latchbolt position
- Door Position Signaling: monitors door position

Key Override Function Features:

- Key outside retracts latchbolt and retracts & projects deadbolt
- Key override with a #41 (1-1/8") Mortise Cylinder

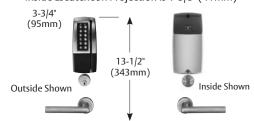
Deadbolt Function Features:

- When deadbolt thrown, outside lever operable only with predetermined code
- Deadbolt Monitoring: monitors deadbolt position
- 1" hardened stainless steel deadbolt

The Passport 1000 P2 mortise lock with deadbolt is required for escape return functionality (a residential requirement in Canada). No other Passport 1000 P2 locks will support this requirement.

Escutcheons

- · Key button text is recessed to prevent wear
- Zinc die cast
- A multi-colored LED indicates valid/invalid entries
- Outside Escutcheon Projection is 1-5/8" (41mm)
- Inside Escutcheon Projection is 1-5/8" (41mm)



P2 Mortise Lock Functions

If the lock needs to have:	Then select:					
	Technology	Series	Type	Function		
Magnetic Stripe only						
Key override and deadbolt**		P2	82	276		
Key override and no deadbolt		P2	82	278		
Deadbolt and no key override**		P2	82	277		
No deadbolt and no key override		P2	82	279		
Magnetic Stripe & Keypad						
Key override and deadbolt**	KP-	P2	82	276		
Key override and no deadbolt	KP-	P2	82	278		
Deadbolt and no key override**	KP-	P2	82	277		
No deadbolt and no key override	KP-	P2	82	279		
iCLASS, keypad, mag stripe, Prox, sma	rt card (MIFARE, D	ESFIRE)				
	Series	Type	Function	Technology		
Key override and deadbolt**	P2	82	276	IKMPS*		
Key override and no deadbolt	P2	82	278	IKMPS*		
Deadbolt and no key override**	P2	82	277	IKMPS*		
No deadbolt and no key override	P2	82	279	IKMPS*		
iCLASS, mag stripe, Prox, smart card (M	MIFARE, DESFIRE)					
Key override and deadbolt**	P2	82	276	IMPS*		
Key override and no deadbolt	P2	82	278	IMPS*		
Deadbolt and no key override**	P2	82	277	IMPS*		
No deadbolt and no key override	P2	82	278	IMPS*		
FeliCa, keypad, mag stripe, Prox						
Key override and deadbolt**	P2	82	276	CKMP*		
Key override and no deadbolt	P2	82	278	CKMP*		
Deadbolt and no key override**	P2	82	277	CKMP*		
No deadbolt and no key override	P2	82	278	CKMP*		
FeliCa, mag stripe, Prox						
Key override and deadbolt**	P2	82	276	CMP*		
Key override and no deadbolt	P2	82	278	CMP*		
Deadbolt and no key override**	P2	82	277	CMP*		
No deadbolt and no key override	P2	82	278	CMP*		

* For Bluetooth Smart support, add "B" to the beginning of the technology code. ** Deadbolt required for escape return functionality (a residential requirement in Canada).

How to Order: Passport 1000 P2 Mortise Locks with Magnetic Stripe Only or Magnetic Stripe and Keypad

Options	Technology	gy Series Type Function			Roses	Levers	Finish	Hand
Select from pages 14-16	Select from P2 Mortise Lock Function chart above				Select re	ose, lever and finish	RHR, LHR, RH or LH	
Example:	KP-P2-82276			LN	MX	26D	RH	

How to Order: Passport 1000 P2 Mortise Locks with multiCLASS SE® Reader

Options	Series	es Type Function Technology		Roses	Levers	Finish	Hand
Select from pages 14-16	Select from P2 Mortise Lock Function chart above				Select r	ose, lever and finish	RHR, LHR, RH or LH
Example:	P2-82276-IKMPS			LN	MX	26D	RH







Passport 1000 P2

The PERSONA Passport 1000 P2 10 Line Cylindrical lock is available with a wide selection of lever designs and hardware finishes. Its unique design provides uniformity when used with other SARGENT locks at a facility.

Mechanical Features

- Certified ANSI/BHMA A156.2 Series 4000 Grade 1
- Motor driven cylindrical lock
- Latch Stainless Steel, 1/2" (13mm) throw
- 2-3/4" (70mm) backset standard; 3-3/4" and 5" backsets also available
- For 1-3/4" (44mm) thick door standard. Consult factory for other thicknesses
- Non-Handed lock body, levers may be handed (Specify RH, RHR, LH or LHR)
- Heavy duty lever spring return
- Adjustable through-bolt positions
- Steel mounting studs
- Not available with 10-UL-, 82-, 83- or 84- options
- UL/ULC Listed for fire doors*
- Hurricane-Resistant Certifications listed on page 17
- · Batteries included



52-5373 Door Position Switch (DPS)

- SPDT concealed switch (2 wire)
- Metal Door adapter included
- 3/8" Diameter for wood door
- 3/4" Diameter for metal door



* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

P2-10G77 Entry Lock with Cylinder

- Outside lever rigid except when in "passage" mode or valid user code entered
- Lever inside always retracts latch
- · Guardbolt deadlocks latch
- Request-to-Exit (REX) signaling standard
- Door Position Switch (DPS, part #52-5373) supplied to allow for full monitoring
- 10 Line Levers are shown on page 8 and Roses are shown on page 10

Key Override Standard Features:

• Key outside retracts latchbolt

P2 Cylindrical Lock Functions

If the lock needs to have:	Then select:						
	Technology	Series	Type	Function			
Magnetic Stripe only							
Key override		P2	10	G77			
Magnetic Stripe & Keypad							
Key override	KP-	P2	10	G77			
	Series	Type	Function	Technology			
iCLASS, keypad, mag stripe, Prox, smart card	(MIFARE, DESI	FIRE)					
Key override	P2	10	G77	IKMPS*			
iCLASS, mag stripe, Prox, smart card (MIFAR	E, DESFIRE)						
Key override	P2	10	G77	IMPS*			
FeliCa, keypad, mag stripe, Prox							
Key override	P2	10	G77	CKMP*			
FeliCa, mag stripe, Prox							
Key override	P2	10	G77	CMP*			

^{*} For Bluetooth Smart support, add "B" to the beginning of the technology code.

Escutcheons

- Key button text is recessed to prevent wear
- Zinc die cast
- A multi-colored LED indicates valid/invalid entries
- Outside Escutcheon Projection is 1-5/8" (41mm)
- Inside Escutcheon Projection is 1-5/8" (41mm)

3-3/4" (95mm) Outside (95mm) Outside (362mm)

How to Order: Passport 1000 P2 Cylindrical Locks with Magnetic Stripe Only or Magnetic Stripe and Keypad

Options	Technology Series Type Function				Roses	Levers	Finish	Hand
Select from pages 14-16	Select from P2 Cylindrical Lock Function chart above				Select rose, lev	er and finish from p	pages 8 & 10	RHR, LHR, RH or LH
**28-	KP-P2-10G77		L	G	03	RH		

How to Order: Passport 1000 P2 Cylindrical Locks with multiCLASS SE® Reader

Options	Options Series Type Function Technology					Levers	Finish	Hand
Select from pages 14-16	Select from P2 Cylindrical Lock Function chart above				Select rose, lever and finish from pages 8 & 10			RHR, LHR, RH or LH
**28-	P2-10G77-IKMPS		L	G	03	RH		

^{**28-} option supplies a 4-7/8" strike, opposed to the 2-3/4" T strike supplied standard

03/19

P2 80 Series Exit Devices



Passport 1000 P2

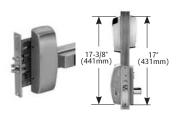
The Passport 1000 P2 80 Series Exit Devices offers access control with magnetic stripe only, magnetic stripe/keypad, magnetic stripe/keypad/ proximity reader, or magnetic stripe/keypad/iCLASS® reader for campus environments, and particularly in areas where life safety is a primary concern, such as in stairwell areas or tenant-occupied facilities.

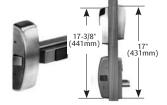
Mechanical Features

- Certified ANSI/BHMA A156.3 Grade 1
- Latch 3/4" (19mm) throw (8800: stainless steel, 8900: anti-friction brass)
- Cylinder requirements: 8800 Series uses a #34 Rim Cylinder; 8900 Series uses a #46 Mortise Cylinder (1-3/4")
- For 1-3/4" (44mm) door standard. Consult factory for other thicknesses
- Batteries included
- EcoFlex™ technology offers improved battery life
- Available with Studio Collection, Coastal Series and all standard levers
- UL/ULC Listed for fire doors*
- Hurricane-Resistant Certifications listed on page 15
- * Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

All P2 Exit Devices feature:

- Lever outside rigid except when in passage mode or valid user code entered
- Always allows free egress
- Request-to-Exit (REX): monitors rail position
- Door Position Switch (DPS, part #52-3893) supplied; allows for full monitoring (shown on page 5)





P2 8900 Mortise Exit Devices

P2 8800 Rim Exit Devices

P2 Exit Device Functions

Mortise Lock Exit								
If the lock needs to have:	Technology	Series	Type & Function					
Magnetic Stripe only								
Key override		P2	8977					
No key override		P2	8978					
Magnetic Stripe & Keypad								
Key override	KP-	P2	8977					
No Key override	KP-	P2	8978					
	Series	Type & Function	Technology					
iCLASS, keypad, mag stripe, Prox, sm	nart card (MIFARE, DESF	IRE)						
Key override	P2	8977	IKMPS*					
No Key override	P2	8978	IKMPS*					
iCLASS, mag stripe, Prox, smart card	(MIFARE, DESFIRE)							
Key override	P2	8977	IMPS*					
No Key override	P2	8978	IMPS*					
FeliCa, keypad, mag stripe, Prox								
Key override	P2	8977	CKMP*					
No Key override	P2	8978	CKMP*					
FeliCa, mag stripe, Prox								
Key override	P2	8977	CMP*					
No Key override	P2	8978	CMP*					

Technology	Series	Type & Function
	P2	8877
	P2	8878
KP-	P2	8877
KP-	P2	8878
Series	Type & Function	Technology
P2	8977	IKMPS*
P2	8978	IKMPS*
P2	8977	IMPS*
P2	8978	IMPS*
P2	8977	CKMP*
P2	8978	CKMP*
P2	8977	CMP*
P2	8978	CMP*

Rim Exit

Escutcheons

- Key button text is recessed to prevent wear
- Zinc die cast
- A multi-colored LED indicates valid/invalid entries
- Outside Escutcheon Projection is 1-5/8" (41mm)
- Inside Escutcheon Projection is 1-5/8" (41mm)

Outside ET Lever Control

- Cast escutcheon
- Projection 13/16" (21mm)
- Motor-driven trim

How to Order: Passport 1000 P2 Exit Devices with Magnetic Stripe only or Magnetic Stripe and Keypad

Optio	ns	Technology	Series	Туре	Function	Rail Size	ET Trim/ Lever	Finish	Hand	Door Width
Select f pages 1		Select fro	m P2 Exit I chart ab		ınction	E: 24 - 32"; F: 33 - 36"; J: 37 - 42"; G: 43 - 48"	ET followed by lever designation from pages 8-10	Select from page 8	RHR or LHR	If supplied, rails will be cut to size
Examp	ole:		KP-P2-8	878		F	ETL	03	RHR	34"

How to Order: Passport 1000 P2 Exit Devices with multiCLASS SE® Reader

Options	Series	Туре	Function	Technology	Rail Size	ET Trim/ Lever	Finish	Hand	Door Width
Select from	Select f	from P2 E	xit Device F	unction	E: 24 - 32"; F: 33 - 36";	ET followed by lever	Select from	RHR or	If supplied, rails will
pages 14-16	chart above		J: 37 - 42"; G: 43 - 48"	designation from pages 8-10	page 8	LHR	be cut to size		
Example:		P2-88	78-IKMPS		F	ETL	32D	RHR	36"

For Bluetooth Smart support, add "B" to the beginning of the technology code.

Add the advanced access control capabilities of Passport 1000 to existing exit devices. Our retrofit kits make it easy to upgrade your campus security without the hassle and expense of replacing the entire exit device.

Retrofit Kits for Von Duprin® 98/99 Series Rim Exit Devices

Features:

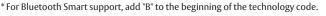
- Key override compatible with a variety of rim cylinders. Trim prepped for cylinder (not included).
- Available with all Passport 1000 P2 credential options
- Provides complete coverage of door prep for Von Duprin 996 trim; call 800-810-WIRE for information on door prep coverage for other trims
- Available with Studio Collection, Coastal Series, and all standard levers
- Available in the same finishes as Passport 1000 exit devices with ET trim (see page 8)
- Mechanical trim available for double door applications. Refer to accessories (page 13) for ordering information.

Specifications:

- Meets ANSI/BHMA Grade 1 requirements
- UL/ULC Listed for fire doors*
- Requires Von Duprin RX switch assembly #050251-00 (supplied by others)

Passport 1000 P2

If the retrofit kit needs to have:	Then select:					
	Technology	Series	Function	Outside Trim		
Magnetic Stripe only		P2	231	EK1		
Magnetic Stripe & Keypad	KP	P2	231	EK1		
	Series	Function	Outside Trim	Technology		
iCLASS, keypad, mag stripe, Prox, smart card (MIFARE, DESFIRE)	P2	231	EK1	IKMPS*		
iCLASS, mag stripe, Prox, smart card (MIFARE, DESFIRE)	P2	231	EK1	IMPS*		
FeliCa, keypad, mag stripe, Prox	P2	231	EK1	CKMP*		
FeliCa, mag stripe, Prox	P2	231	EK1	CMP*		



*

How to Order: Passport 1000 P2 Exit Device Retrofit Kits with Magnetic Stripe Only or Magnetic Stripe and Keypad

Technology	Series	Function	Outside Trim	Levers Finish		Hand
Select fro	m P2 Retrofit K	it Function chart	Select lever and fi	nish from pages 8-10	RHR or LHR	
	KP-P2-23	31 x EK1	G	26D	LHR	

How to Order: Passport 1000 P2 Exit Device Retrofit Kits with multiCLASS SE® Reader

Series	Function	Technology	Outside Trim	Levers Finish		Hand
Select fro	m P2 Retrofit K	it Function chart	Select lever and fi	nish from pages 8-10	RHR or LHR	
	P2-231 x IK	MPS x EK1	G	26D	LHR	

^{*} Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

03/1

P2 FM7300 SeriesMulti-Point Locks



ASSA ABLOY

Passport 1000 P2

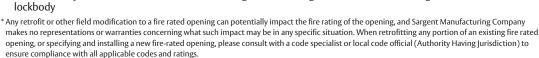
The Passport 1000 P2 FM7300 Series lock is a multi-point, deadlocking system developed to help protect lives while securing a community shelter and/or safe room entry.

Sturdy heavy-duty steel components firmly secure the door within the frame – at top, bottom, and center latch points - fortifying the opening during a windstorm event. The FM7300 Series is UL-listed for FEMA P361 (2015), FEMA P320 (2014) and ICC 500 2014 capable of withstanding severe wind speeds and flying debris. This device consists of concealed vertical rods with top and bottom latching complemented by an EAC mortise lock with a latchbolt and deadbolt at the center of the door and an optional indicator to show the status of the top and bottom latches.

The lever rotation retracts the top bolt, the bottom bolt, and center bolts simultaneously. When retracted, the bolts are held in position as the door swings. As the door closes, the hold-back feature engages the frame and the top, center, and bottom bolts project simultaneously. With the deadbolt thrown, this system protects room occupants from threatening conditions. The FM7300 Series device can be used on fire-rated doors.

Mechanical Features

- Certified to ANSI/BHMA A156.37 Series 1000 Operational Grade 1 and Security Grade 1
- Motor driven 8200 Series Mortise Lock
- 1-3/4" thick door only; fully integrated FM7300 is part of a complete ASSA ABLOY windstorm solution utilizing Ceco StormPro® 361 and Curries StormPro® 361 doors and frames and McKinney® StormPro® hinges
- Stainless steel non-handed deadlocking latch
- Not available with SC- or SE- options
- Handed, easily field reversible without disassembling
- Lever trim through-bolted for increased security and durability
- Concealed vertical assembly (rods, latches and cassette) pre-installed in door
- Concealed vertical assembly (rods, latches and cassette) pre-installed in door
- UL/ULC Listed for fire doors*
- FCC certified
- Windstorm certification information is listed in the Sargent FM7300 Series catalog





Passport 1000 P2 Multi-Point Lock Functions

Standard P2 Multi-Point Locks feature:

- Outside lever rigid except when in "passage" mode or valid user code entered
- Trim inside always retracts latch and/or deadbolt Guardbolt deadlocks latch
- Latchbolt Monitoring: monitors latchbolt position
- Door Position Signaling: monitors door position

Deadbolt Function Features:

- When deadbolt thrown, outside lever operable only with predetermined code
- Deadbolt Monitoring: monitors deadbolt position
- 1" hardened stainless steel deadbolt
- No key override with deadbolt: Deadbolt projected and retracted by thumbturn or key
- Key Override with deadbolt: Key outside retracts deadbolt. Key outside also retracts latch and unlocks outside when trim is locked electronically
- Top and bottom rods retracted by lever
- Deadbolt projected and retracted by thumbturn or key

Escutcheons

- Key button text is recessed to prevent wear
- Zinc die cast
- A multi-colored LED indicates valid/invalid entries
- Outside Escutcheon Projection is 1-5/8" (41mm)
- Inside Escutcheon Projection is 1-5/8" (41mm)

P2 Multi-Point Lock Functions

If the lock needs to have:		Then	select:				
	Technology	Series	Type	Function			
Magnetic Stripe only							
Deadbolt and no key override**		P2	FM73	277			
Key override with deadbolt		P2	FM73	276			
Magnetic Stripe & Keypad							
Deadbolt and no key override**	KP-	P2	FM73	277			
Key override with deadbolt	KP-	P2	FM73	276			
	Series	Type	Function	Technology			
iCLASS, keypad, mag stripe, Prox, s	iCLASS, keypad, mag stripe, Prox, smart card (MIFARE, DESFIRE)						
Deadbolt and no key override**	P2	FM73	277	IKMPS*			
Key override with deadbolt	P2	FM73	276	IKMPS*			
iCLASS, mag stripe, Prox, smart car	rd (MIFARE, DES	FIRE)					
Deadbolt and no key override**	P2	FM73	277	IMPS*			
Key override with deadbolt	P2	FM73	276	IMPS*			
FeliCa, keypad, mag stripe, Prox							
Deadbolt and no key override**	P2	FM73	277	CKMP*			
Key override with deadbolt	P2	FM73	276	CKMP*			
FeliCa, mag stripe, Prox							
Deadbolt and no key override**	P2	FM73	277	CMP*			
Key override with deadbolt	P2	FM73	276	CMP*			

^{*} For Bluetooth Smart support, add "B" to the beginning of the technology code.

How to Order: Passport 1000 P2 Multi-Point Locks with Magnetic Stripe Only or Magnetic Stripe and Keypad

Options	Technology	Series	Туре	Function	Roses	Levers	Finish	Hand
Select from pages 14-16	Select from P2 Multi-Point Lock Function chart above				Select re	ose, lever and finish	RHR, LHR, RH or LH	
Example:	KP-P2-FM73277				LN	MX	26D	RH

How to Order: Passport 1000 P2 Multi-Point Locks with multiCLASS SE® Reader

Options	Series	Туре	Function	Technology	Roses	Levers	Finish	Hand
Select from pages 14-16	Select from I	P2 Multi-Point	Lock Functio	n chart above	Select re	ose, lever and finish	RHR, LHR, RH or LH	
Example:	P2-FM73277-IKMPS			LN	MX	26D	RH	

^{**} Deadbolt required for escape return functionality (a residential requirement in Canada).

Finishes, ET Trim and Handling





Passport 1000 P2 products are available with the following identified lever designs to provide uniformity throughout a facility. Lever projection from door surface varies with lock type. P2 mortise locks and cylindrical locks are specified by rose design followed by the lever designation (e.g., LNMX). P2 Exit devices are specified by the ET designation followed by the lever designation (e.g., ETMX).

Note: Exit devices are only available with ET Trim

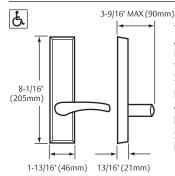
Finishes

Passport 1000 P2

SARGENT offers many different finishes for P2 products. Please reference the chart below for

	Finishes	ANSI	Mortise Locks	Cylindrical Locks	Exit Devices
03	Bright brass	605	X	Х	Х
04	Satin brass	606	X	Х	X
09	Bright bronze	611	Х	Х	Х
10	Satin bronze, clear powder	612	Х	Х	Х
10B	Oxidized satin bronze oil rubbed	613	Х	Х	Х
10BE	Dark oxidized satin bronze - equivalent	613E	Х	Х	Х
10BL	Oxidized satin bronze, clear power coat	-	X	Х	Х
14‡	Bright nickel, clear coated		Х	Х	Х
15‡	Satin nickel, clear coated	619	Х	Х	Х
20D	Dark statuary bronze, clear powder coat	-	X	X	Х
26‡	Bright chrome	625	X	X	Х
26D‡	Satin chrome	626	X	Х	Х
32∞	Bright stainless steel	629	Х	_	Х
32D∞	Satin stainless steel		X	_	Х
BSP	Black suede powder coat	_	Х	Х	Х
WSP	White suede powder coat	-	Х	Х	Х

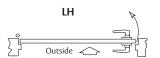
ET Lever Trim for Exit Devices



The 700 Series ET and Lever Control is the external trim with all P2-80 Series exit devices **ET Escutcheons** and levers are plated brass Stainless steel levers are available

‡ Exit Devices ordered in 32 or 32D will have the ET trims supplied in 26 or 26D; for nickel finished ET trims, specify 14 or 15 finish and the exit will be supplied in 32 or 32D accordingly

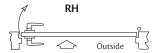
Handing



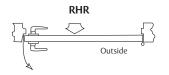
Left Hand Door



Left Hand Reverse Door



Right Hand Door



Right Hand Reverse Door

03/19

 $[\]infty$ Only available with exit devices, the external trim will be supplied in 26 or 26D accordingly



Design



Cylindrical

Locks

Χ

Χ

Fxit

Devices

Χ

Χ

Χ

Χ

Χ

Mortise

Locks

Χ

Χ

Χ

Χ

Χ

Passport 1000 P2

Passport 1000 P2 products are available with the following identified lever designs to provide uniformity throughout a facility. Lever projection from door surface varies with lock type. P2 mortise locks and cylindrical locks are specified by rose design followed by the lever designation (e.g., LNMX). P2 Exit devices are specified by the ET designation followed by the lever designation (e.g., ETMX).

Coastal Levers

Lever

C

G

R

S

Υ

Levers

Stand	Standard Levers							
Lever	Design	Handed	Mortise Locks	Cylindrical Locks	Exit Devices			
A		Yes	х		х			
В		_	Х	х	Х			
E		-	Х		Х			
F		-	Х		Х			
J		-	Х	х	Х			
L		_	Х	Х	Х			
Р		_	Х	Х	Х			
w		-	Х		Х			

Note: P2-8200 mortise locks with Coastal Series levers an	e available with
CR & TR roses (Not available with LN, O, CO & TO roses)	

Handed

Yes

Yes

Yes

Note: P2-8200 mortise locks with standard levers are available with LN and O roses only (not available with CO, CR, TO & TR roses)

Roses

Roses	Design	Diameter	Mortise Locks	Cylindrical Locks
LN		2"	X	
CR	CR 2-3/16"		X	
TR		2-3/16"	X	
О	0	2-3/4"	Х	
E2	•	2-11/16"	Х	

Roses	Design	Design Diameter Mor		Cylindrical Locks
E3	•	2-1/16"	Х	
со		2-3/4"	Х	
то	0	2-3/4"	Х	
L	0	3-1/2"		Х
G	0	3-1/2"		Х

Thumbturns

The thumbturn backplate will match the rose design chosen. The turn designation must be specified as an option before the lock order string. *The standard thumbturn will be supplied if T1, T2 or T3 are not listed. See page 9 in the 8200 mortise lock catalog for more information.

T1 Turn



T2 Turn



T3 Turn

Standard Turn*



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Studio Collection Levers

Passport 1000 P2





Studio Collection Levers are available with the 8200 Series Mortise Locks. With Exit Device, the Studio Collection is available with the ET trim creating uniformity throughout a facility.

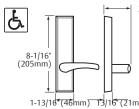
Aventur	Aventura Series							
Lever	Design	Handed	Mortise Locks	Exit Devices				
МВ		-	Х	Х				
ME		-	Х	Х				
MF		-	X	Х				
NF¹		-	Х	Х				
MG		-	X	Х				
МІ		-	Х	Х				
NI¹		-	X	Х				
MW¹		-	Х	Х				
Odeon S	Series							
MN ^{2,3}		Yes	X	Х				
MH ³		Yes	X	X				
MS ³		Yes	X	Х				
MU ³		Yes	Х	Х				
MV ³		Yes	Х	Х				
NS ^{1,3}		Yes	Х	Х				
NU ^{1,3}		Yes	Х	Х				
MX ^{1,3}		Yes	Х	Х				

- 1. Lever returns within 1/2" (13mm) of door face
- 2. Gramercy levers are customized. Refer to page 10 for ordering information.
- 3. Not available in 32D or 32 finish

Notting Hill Series							
Lever	Design	Handed	Mortise Locks	Exit Devices			
MQ ³		Yes	Х	X			
MT ^{2,3}		Yes	Х	Х			
MY ^{1,3}		Yes	Х	х			
Rialto Series							
MO ³		Yes	Х	Х			
MZ ^{1,3}		Yes	Х	X			

Centro L	Centro Levers						
MD	<u> </u>	-	X	Х			
MJ		-	Х	Х			
MP ^{2,3}		-	X	Х			
ND¹		-	Х	Х			
NJ¹		-	Х	Х			
Gramero	cy Levers**						
RCM ²		_	Х	X			
RAL ²		_	X	Х			
REM ²		-	Х	Х			
RAM ²		_	Х	Х			
RAS ²		-	X	X			
RAG ²		-	Х	Х			
RGM ²		_	Х	Х			

ET Lever Controls for Exit Devices

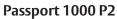


3-9/16" MAX (90mm)

The 700 Series ET and Lever Control is the external trim with all Profile 80 Series exit devices

ET Escutcheons and levers are plated brass Stainless steel levers are available

Ordering Gramercy Series Levers and Rose Designs

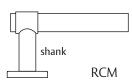


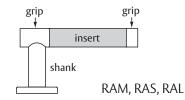




Elements of Gramercy Series Levers







Lever Part Number		Shank Finish*	Insert	Grip Finish
Plain†	REM	Polish Stainless (629) or Satin Stainless (630)	n/a	Polish Stainless (629) or Satin Stainless (630)
With Raised Band	Vith Raised Band RCM		n/a	Polish Stainless (629) or Satin Stainless (630)
With Metallic Insert	RAM	Polished Stainless (629)	Satin Stainless (630)	Polished Stainless (629)
With Santoprenne Insert† RAS		Polished Stainless (629) or Satin Stainless (630)	Black (BK)	Polish Stainless (629) or Satin Stainless (630)
With Leather Insert† RAL		Polished Stainless (629) or Satin Stainless (630)	Black (BK) or Brown (BN)	Polish Stainless (629) or Satin Stainless (630)

^{*} Rose finish is designated by shank finish selected, escutcheon finish will be 14 or 15 finish accordingly

To order Gramercy Series levers with SARGENT products, see the examples below. When specifying finish, use the last two digits of the BHMA standard finish code, i.e. use "29" for polished stainless, BHMA finish 629.

How to Order: P2- Mortise Lock with Gramercy Levers

Options	Series/ Type	Function	Technology	Rose	Lever	Shank Finish*	Insert Finish	Grip Finish	Hand
Select from pages 14-16	P2-82	Select from page 4	Select from page 4	Select from below	Leather insert	Polished or satin stainless	Black or Brown	Polished or satin stainless	RHR, RH, LHR, or LH
10-	P2-82	276	IKMPS	LN	RAL	29	BN	29	RH

How to Order: P2- Exit Device x Gramercy Levers

Options	Series	Туре	Function	Technology	Rail Size	Trim	Lever	Shank Finish*	Insert Finish	Grip Finish	Hand	Inside Finish	Door Width
Select from pages 14-16		Select from page 6		e 6	E, F, J or G	ET Series	Leather insert	Polished or satin stainless	Select from above	Polished or satin stainless	RHR or LHR	Select from page 8	
10-	P2-	88	77	IKMKPS	F	ET	RAL	29	BN	29	RHR	32D	36"

[†] Grip finish must match shank finish









Hard Power Option (91-)

The Hard Power option (91-) is recommended for high traffic doors or openings that require online behavior. Hard powering a Passport 1000 P2 allows the lock to operate in an always connected mode. The P2 allows hard powering via an input of 12 to 24V DC and draws 200mA at 12V DC in always connected mode. SARGENT offers a range of power supplies suitable for this application.

12VDC & 24VDC Power Supplies

- · UL Class 2 Listed filtered and regulated
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)
- Each circuit can be individually turned on and off via a slide switch; the power status of each is shown by an LED
- In the event of a DC short, the problem is confined to the zone of difficulty
- · Fire alarm interface standard

	ъ .	. •
Model	Descri	ption

3521	12V - 1 Amp power supply
3541	12V - 3 Amp power supply
3551	12V - 4.5 Amp power supply
3571	12V - 6 Amp power supply
737	12V - 5 Amp 1 hour backup battery
3520	24V - 1 Amp power supply
3540	24V - 2 Amp power supply
3550	24V - 4 Amp power supply
3570	24V - 6 Amp power supply
738	24V - 5 Amp 1 hour backup battery

ElectroLynx® hinges and harnesses required for hard-powered Passport 1000 P2 applications are available through McKinney.

52-3852 IN120 Adapter Cable

- Included with 91- prefix option units
- Allows for hard powering (91-) of Passport 1000 P2 or IN120 (required for certain monitoring features)
- Compatible with ElectroLynx® system

Weatherseal Gasketing

- Provides sealing between outside escutcheon and door for exterior applications
- Gasketing (included) recommended for non-fire rated exterior applications

52-0782

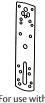


Passport Escutcheon

52-0263



For use with ET Trim



97-0773

For use with EK1 Exit Trim

52-5373 Door Position Switch (DPS)

- SPST concealed switch (2 wire)
- Metal Door adapter included
- 3/8" Diameter for wood door
- 3/4" Diameter for metal door
- Supplied with P2 Exit Devices and Bored Locks



Replacement Parts



SARGENT ASSA ABLOY

Passport 1000 P2

	Electronics
Part No.	Description
52-3583-[finish]	Outside escutcheon assembly, mag stripe
52-3582-[finish]	Outside escutcheon assembly, mag stripe and keypad
52-4759-[finish]	Outside escutcheon assembly, iCLASS, keypad, mag stripe, Prox, smart card (MIFARE, DESFIRE)
52-4894-[finish]	Outside escutcheon assembly, iCLASS, keypad, mag stripe, Prox, smart card (MIFARE, DESFIRE), Bluetooth Smart- enabled mobile phones
52-4777-[finish]	Outside escutcheon assembly, iCLASS, mag stripe, Prox, smart card (MIFARE, DESFIRE)
52-4895-[finish]	Outside escutcheon assembly, iCLASS, mag stripe, Prox, smart card (MIFARE, DESFIRE), Bluetooth Smart-enabled mobile phones
52-4787-[finish]	Outside escutcheon assembly, FeliCa, keypad, mag stripe, Prox
52-4796-[finish]	Outside escutcheon assembly, FeliCa, keypad, mag stripe, Prox, Bluetooth Smart-enabled mobile phones
52-4788-[finish]	Outside escutcheon assembly, FeliCa, mag stripe, Prox
52-4797-[finish]	Outside escutcheon assembly, FeliCa, mag stripe, Prox, Bluetooth Smart-enabled mobile phones
52-5409	WiFi controller assembly
52-4779	Mounting plate assembly
52-4776 -[finish]	Inside escutcheon assembly with privacy button
	Passport 1000 P2 Mortise Lock Replacement Parts
P2-82276-[finish]	Lockbody with deadbolt and cylinder
P2-82277-[finish]	Lockbody with deadbolt, without cylinder
P2-82278-[finish]	Lockbody without deadbolt, with cylinder
P2-82279-[finish]	Lockbody without deadbolt, without cylinder
	Passport 1000 P2 Cylindrical Lock Replacement Parts
52-5373	Door position switch kit
10-3407	Lockbody - standard cylinder
10-3412	Lockbody - LFIC
10-3417	Lockbody - SFIC
	Passport 1000 P2 Rim Exit Device Replacement Parts
Part No.	Description
52-5373	Door position switch kit
97-3562-5126	Exit trim (ET) with cylinder
97-3563-5126	Exit trim (ET) without cylinder
52-3891	Motor assembly
	Passport 1000 P2 Mortise Exit Device Replacement Parts
Part No.	Description
52-5373	Door position switch kit
P2-777-8-ETL-[finish]	Exit trim (ET) with cylinder
P2-778-8-ETL-[finish]	Exit trim (ET) without cylinder
52-3891	Motor assembly

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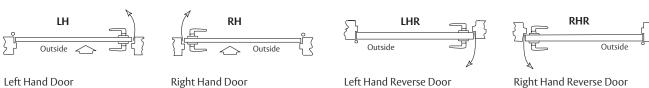


To order options listed below, list the alpha or numerical code before the product model number

Mechanical Options:

A J J C+	2	
Add Strength	3-	Stainless steel hubs for institutional specifications (mortise locks only)
Fire Rated	12-	UL Fire Label Exit hardware (exit devices only, not available with 16- & HK-)
Cylinder Dogging	16-	Cylinder lockdown (non-fire rated exit devices only)
LD-		Less hex key dogging (non-fire rated exit devices only)
Less Touch Pad	19-	Pushbar without Lexan touchpad (exit devices only)
10 Line Backsets	23-	3-3/4" Backset x 2-1/4" x 1-1/8" Front (10 Line only)
To line bucksets	25-	5" Backset x 2-1/4" x 1-1/8" Front (10 Line only)
	23-	4-7/8" (124mm) ANSI flat lip strike (8900 mortise lock exit device & mortise locks only)
Strike Ontions	28-	4-7/8" Strike #808. Lip length 1-1/4 (10 Line only)
Strike Options	OBS-	Open Back Strike (for 82278 & 82279 only)
	WBS-	Wrought Box Strike (Not available for 80 series)
Security Fasteners	36-	Six lobe security head screws
security rasteriers	37-	Spanner head screws
3/4" Latch Throw	41-	3/4" (19mm) throw latch x 2-3/4" (70mm) backset (10 Line only)
Flush End cap	43-	Flush End Cap (exit devices only)
	75-	Tactile Warning - Milled Inside Lever (Not available with Exit Devices, Studio & Coastal Levers and the A Lever)
	76-	Tactile Warning - Milled Outside Lever (Not available with Studio & Coastal Levers and the A Lever)
Tactile Warning	77-	Tactile Warning - Milled Inside & Outside Lever (Not available with Exit Devices, Studio & Coastal Levers and the A Lever)
Options	85-	Tactile Warning - Abrasive Coating on Inside Lever (or Push Rail for Exits)
	86-	Tactile Warning - Abrasive Coating on Outside Lever
	87-	Tactile Warning - Abrasive Coating on Outside Lever & Inside Lever (or Push Rail for Exits)
Finish Protection	CPC-	Clear Powder Coat (Available for 26, 26D, 32 & 32D Finishes)
S		MicroShield® antimicrobial clear powder coat
SARGuide	PL-	SARGuide™ PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (Not available 75-, 77 & TL-)
Hurricane-Resistant	HC-	Hurricane Code (rim exit devices only, see page 14 for details)
exit devices	WS-	Windstorm Rated (rim & mortise lock exit devices only, see page 14 for details)
Electrical Options	91-	Power/Remote Unlocking wiring harness

Handing







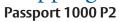
To order options listed below, list the alpha or numerical code before the product model number

Cylinder Options:

	DG1-	SARGENT Degree Key System Level 1
}	DG1-21-	Degree Level 1 Construction Master Keying
		Degree Level 1 Construction Master Reyling Degree Level 1 Removable Disposable Construction Core (not available with cylindrical locks)
	DG1-60-	
	DG1-63-	Degree Level 1 Removable Core (not available with cylindrical locks)
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC (not available with cylindrical locks)
	DG1-65-	Degree Level 1 Unassembled/Uncombined Core
	DG1-78-	Degree Level 1 Exposed Plug (not available with cylindrical locks or exit devices)
	DG2-	SARGENT Degree Key System Level 2
	DG2-21-	Degree Level 2 Construction Master Keying
Degree Key	DG2-60-	Degree Level 2 Removable Disposable Construction Core (not available with cylindrical locks)
System	DG2-63-	Degree Level 2 Removable Core (not available with cylindrical locks)
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC (not available with cylindrical locks)
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG2-78-	Degree Level 2 Exposed Plug (not available with cylindrical locks or exit devices)
	DG3-	SARGENT Degree Key System Level 3
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core (not available with cylindrical locks)
	DG3-63-	Degree Level 3 Removable Core (not available with cylindrical locks)
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC (not available with cylindrical locks)
	DG3-78-	Degree Level 3 Exposed Plug (not available with cylindrical locks or exit devices)
Signature Key	10-	SARGENT Signature Key System (Not Available with other Key Systems)
System	10-21-	SARGENT Signature Construction Key System (Lost Ball)
Signature Large Format Interchangeable Core	10-63-	SARGENT Signature Large Format Interchangeable Core (Removable Core) Cylinder
VC Koy Systom	11-	XC Key System (not available with 10-, 22-)
XC- Key System	11-21-	XC- Construction Key System (Lost Ball)
XC- Large Format	11-60-	Hardware to accept XC- Permanent LFIC (Removable Core), Disposable Plastic Core- provided
Interchangeable	11-63-	Hardware provided with XC- LFIC (Removable Core) Cylinder - (Includes masterkeying, grand masterkeying)
Core	11-64-	$Hardware\ provided\ with\ Keyed\ construction\ core\ to\ accept\ XC-\ LFIC\ (Removable)\ Permanent\ Core\ (ordered\ separately)$
	11-70-7P-	$Hardware \ to \ accept \ XC-SFIC \ (\ 7-Pin) \ XC-Permanent \ Cores, Plastic \ Disposable \ Core \ Provided \ (10 \ Line \ J \ lever \ not \ available)$
XC-	11-72-7P-	Hardware to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent Core ordered separately (10 Line J lever not available)
Interchangeable Cores	11-73-7P-	Hardware supplied with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
	11-65-73-7P-	Hardware provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core (10 Line lever not available)

Note: More Cylinder Options on the following page

Cylinder Options and Shipping Information







To order options listed below, list the alpha or numerical code before the product model number

Cylinder Options:

Construction	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Key Systems	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style	51-	Removable Core Cylinder (Old Style) provided (Existing Systems Only)
Removable Core	52-	Removable Construction Core (Old Style) Permanent core ordered separately (Existing Systems Only)
Large Format	60-	Hardware to accept SARGENT Permanent LFIC (Removable Core), Disposable Plastic Core provided (Permanent Cores ordered separately)
Interchangeable Core	63-	Hardware provided with LFIC (Removable Core) Cylinder - (Includes masterkeying, grand masterkeying)
Corc	64-	Hardware provided with Keyed construction core to accept LFIC (Removable) Permanent Core (ordered separately)
	70-	(Hardware to accept 6 or 7-Pin SFIC Permanent Cores, Plastic Disposable Core provided (10 Line J lever not available)
	72-	Hardware to accept 6 or 7-Pin SFIC (Keyed Construction Core provided) Cylinder (10 Line J lever not available) (Permanent Core ordered separately)
Interchangeable	73-	Hardware supplied with 6 pin SFIC (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
Cores	65-73-	Hardware provided to accept Uncombinated 6-Pin SFIC (Permanent) Core (10 Line J lever not available)
	65-73-7P-	Hardware provided to accept Uncombinated 7-Pin SFIC (Permanent) Core (10 Line J lever not available)
	73-7P-	Hardware supplied with Small Format 7-Pin Interchangeable Core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
Keso &	81-	Hardware provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores (Not available with 10 Line) (Permanent Cores ordered separately)
Keso F1	82-	Hardware provided with SARGENT Keso Security Cylinder
	F1-82-	Hardware provided with SARGENT Keso F1 Security Cylinder (Patented)
	83-	Hardware supplied with SARGENT Keso Security Removable Core cylinder (Not available with 10 Line)
	F1-83-	Hardware supplied with SARGENT Keso F1 Security Removable Core cylinder (Not available with 10 Line) (Patented)
	84-	Hardware provided with SARGENT Keso Construction Cores (Not available with 10 Line) (Permanent Cores ordered separately)
Bump Resistant	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Hardware supplied less cylinder
Accept Schlage	30-	Lever to accept Schlage Cylinder-Cylinder is not provided (10 Line only)
Cylinders	SF-	L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (10 Line only)
Schlage Keyways	SC-	Schlage C keyway cylinder, 0 bitted (Not available with 8900 Series Exit devices)
ociliage Keyways	SE-	Schlage E keyway cylinder, 0 bitted (Not available with 8900 Series Exit devices)

 $\textbf{Note:} \ \mathsf{For} \ \mathsf{V-10} \ \mathsf{Cylinders} \ \mathsf{and} \ \mathsf{information}, \ \mathsf{contact} \ \mathsf{ASSA}, \ \mathsf{Inc.} \ @ \ 800-235-7482$

Hardware	Shipping Weight	Pc. Count/Carton
P2-82276 x lever trim (with cylinder & DB)	11.7 lbs (5.3 kg)	1/carton
P2-82278 x lever trim (with cylinder)	11.2 lbs (5.1 kg)	1/carton
P2-82277 x lever trim (w/o cylinder & w/ DB)	11.2 lbs (5.1 kg)	1/carton
P2-82279 x lever trim (w/o cylinder & DB)	10.7 lbs (4.9 kg)	1/carton
P2-10G77 with lever	10.1 lbs (4.6 kg)	1/carton
P2-8977 with ET	23.0 lbs (10.4 kg)	1/carton
P2-8877 with ET	21.0 lbs (9.5 kg)	1/carton

UL Listed Hurricane-Resistant Certifications & Florida Building Codes





Passport 1000 P2

SARGENT Manufacturing Company offers a wide variety of products that meet building codes requiring Hurricane-Resistant certification. SARGENT products are independently tested to meet the requirements of the building codes as specified by the Florida Building Code, Miami Dade Code Requirements and in the International Building Code. Listed below are certifications and the test standards met by these products.

Passport 10 Line cylindrical locks are UL Certified and Listed on the Florida Building Code Website for Hurricane-Resistant hardware:

- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009
- Testing Application Standard (TAS) 201*
- Testing Application Standard (TAS) 202*

- Testing Application Standard (TAS) 203*
- * published in the Florida Building Code for use in the High Velocity Hurricane Zone (HVHZ)
- UL Certification Directory ZHEM.R21744 Latching Hardware
- UL Certification Directory ZHLL.R21744 Windstorm-rated Assemblies
- Listed on Florida Building Code Website for Hurricane-resistance: FL6728-R1
- Listed on Florida Building Code Website for Hurricane-resistance: FL4351-R1

Passport 8200 Series mortise locks are UL Certified and Listed on the Florida Building Code Website for Hurricane-Resistant hardware:

- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009
- Testing Application Standard (TAS) 201*
- Testing Application Standard (TAS) 202*

- Testing Application Standard (TAS) 203*
- * published in the Florida Building Code for use in the High Velocity Hurricane Zone (HVHZ)
- UL Certification Directory ZHEM.R21744 Latching Hardware
- UL Certification Directory ZHLL.R21744 Windstorm-rated Assemblies
- Listed on Florida Building Code Website for Hurricane-resistance: FL6728-R1
- Listed on Florida Building Code Website for Hurricane-resistance: FL4351-R1

Passport HC-8800 rim exit devices are UL Certified and Listed on the Florida Building Code Website for Hurricane-Resistant hardware:

- Passport HC8800 for single and double door applications; 8-0 max opening
- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- Testing Application Standard (TAS) 201*

- Testing Application Standard (TAS) 202*
- Testing Application Standard (TAS) 203*
- published in the Florida Building Code for use in the High Velocity Hurricane Zone (HVHZ)
- UL Certification Directory ZHEM.R21744 Latching Hardware
- UL Certification Directory ZHLL.R21744 Windstorm-rated Assemblies
- Listed on Florida Building Code Website for Hurricane-resistance: FL2998-R2

Passport WS-8800 rim exit devices are UL Certified and Listed on the Florida Building Code Website for Hurricane-Resistant hardware:

- Passport WS8800 for Single Hollow Metal 1-3/4" Thick Doors applications, 3'0" x 7'0" Max. Door with 6" Min Stile
- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002

ASTM E1996-2009

• ANSI/ASTM E1886-2005

- Testing Application Standard (TAS) 201*
- Testing Application Standard (TAS) 202*
- Testing Application Standard (TAS) 203*
 - * published in the Florida Building Code for use in the High Velocity Hurricane Zone (HVHZ)
- UL Certification Directory ZHEM.R21744 Latching Hardware
- Listed on Florida Building Code Website for Hurricane-resistance: FL4351-R1

Passport WS-8900 mortise lock exit devices are UL Certified and Listed on the Florida Building Code Website for Hurricane-Resistant hardware:

- Passport WS8900 available for Single Hollow Metals Doors applications for 1-3/4" Thick door, 3'0" x 7'0" Max. Door with 6" Min Stile
- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009

- Testing Application Standard (TAS) 201*
- Testing Application Standard (TAS) 202*
- Testing Application Standard (TAS) 203*
- * published in the Florida Building Code for use in the High Velocity Hurricane Zone (HVHZ)
- UL Certification Directory ZHEM.R21744 Latching Hardware
- Listed on Florida Building Code Website for Hurricane-resistance: FL4351-R1

Elkay ezH2O Bottle Filling Station with Bi-Level ADA Cooler Dual Hands Free Activation

Filtered Refrigerated Light Gray

Model LZOOTL8WSLK

PRODUCT SPECIFICATIONS

Elkay ezH2O® Bottle Filling Station with Bi-Level ADA Cooler Dual Hands Free Activation, Filtered Refrigerated Light Gray. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Antimicrobial, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor. Furnished with Flexi-Guard ® Safety Bubbler. Electronic Bottle Filler Sensor activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120. Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

Special Features:	Antimicrobial, Filtered, Green Ticker™,
_	Hands Free, Laminar Flow, Real
	Drain, Visual Filter Monitor
Finish:	Light Gray Granite
Power:	115V/60Hz
Bubbler Style:	Flexi-Guard ® Safety Bubbler
Activation by:	Electronic Bottle Filler Sensor
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity*:	8.0 GPH
Full Load Amps	6
Rated Watts:	370
Dimensions (L x W x H):	36-3/4" x 19" x 39-1/16"
Approx. Shipping Weight:	104 lbs.
Installation Location:	Indoor
No. of Stations Served:	2
*Deced on 000 Finlet water 9 0	OO F amphicant air towns for FOO F abilled

*Based on 80° F inlet water & 90° F ambient air temp for 50° F chilled drinking water.

- Visual Filter Monitor: LED Filter Status Indicator for when filter change is necessary.
- Filter is certified to NSF 42 and 53 for lead, particulate, chlorine, taste and odor reduction. 3,000 gal. capacity.
- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

COOLING SYSTEM

- Compressor: Hermetically-sealed, reciprocating type, single phase. Sealed-in lifetime lubrication.
- Condenser: Fan cooled, copper tube with aluminum fins. Fan motor is permanently lubricated.
- Cooling Unit: Combination tube-tank type. Continuous copper tubing with is fully insulated with EPS foam that

PART:	QTY:
PROJECT:	
CONTACT:	
DATE:	
NOTES:	
APPROVAL:	



Included with Product:

Water Cooler (LZOOTL8WSLC), Bottle Filler (LZWSR).

Filter

▼ Ships in multiple boxes.

AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.



PRODUCT COMPLIANCE

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

Buy American Act

CAN/CSA C22.2 No. 120

GreenSpec®

NSF/ANSI 42, 53, 61, & 372 (lead free)

UL 399









Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.

Installation Instructions (PDF)

5 Year Limited Warranty on the refrigeration system of the unit. Electrical components and water system are warranted for 12 months from date of installation. Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.

Warranty (PDF)

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.



Elkay ezH2O Bottle Filling Station with Bi-Level ADA Cooler Dual Hands Free Activation

Filtered Refrigerated Light Gray
Model LZOOTL8WSLK

meets UL requirements for self-extinguishing material.

- Refrigerant Control: Refrigerant R-134a is controlled by accurately calibrated capillary tube.
- Temperature Control: Easily accessible enclosed adjustable thermostat is factory preset. Requires no adjustment other than for altitude requirements.

Optional Accesso	ries	
<u>51300C</u>	Elkay WaterSentry Plus Replacement Filter (Bottle Fillers) Spec Sheet (PDF)	
<u>LKAPREZL</u>	Elkay Cane Apron for EZ Gray Spec Sheet (PDF)	
<u>MLP200</u>	In-wall Carrier for Bi-level On-wall Bottle Fillers, Coolers & Fountains Spec Sheet (PDF)	Ħ
<u>98551C</u>	WaterSentry Filter Mounting Cover (Gray Granite) Spec Sheet (PDF)	

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Filtered Refrigerated Light Gray

Model LZOOTL8WSLK

IMPORTANT! INSTALLER PLEASE NOTE :

This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as telephone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below

NOTICE

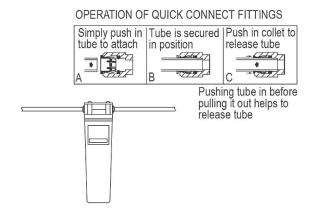
This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler

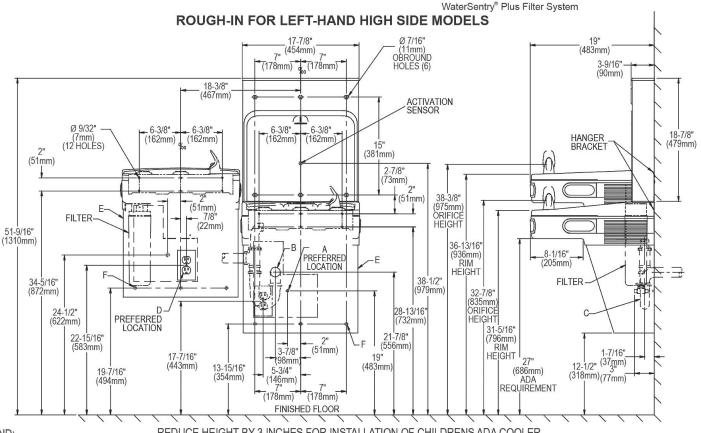
from the building plumbing system.

Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical will connect through pre-punched hole in basin.

will conflict through pre-purchased hide in basin.

These products are designed to operate on 20 psi to 105 psi supply line pressure. Simultaneous operation of both bubblers on a bi-level unit may not be possible depending on water supply pressure. If simultaneous operation is desired, please ensure a minimum of 65 psi supply.





LEGEND:

REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

A = Recommended Water Supply location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated copper tube. Up to 3" (76mm) maximum out from wall. B = Recommended Waste Outlet location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) out from wall.

C = 1-1/2" Trap (not furnished).
D = Electrical Supply (3) Wire Recessed Box Duplex Outlet.
E = Insure proper ventilation by maintaining 6" (152mm) minimum clearance from cabinet louvers to wall.

F = 7/16" (11mm) Bolt Holes for fastening to wall

Note: New Installations Must Use Ground Fault Circuit Interrupter (GFCI). It is highly recommended that the circuit be dedicated and the load protection be sized for 20 amps.

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Filtered Refrigerated Light Gray

Model LZOOTL8WSLK

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This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as teléphone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below

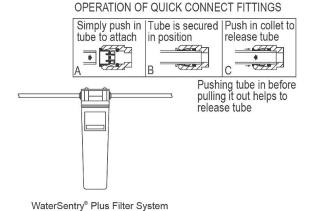
NOTICE

This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system.

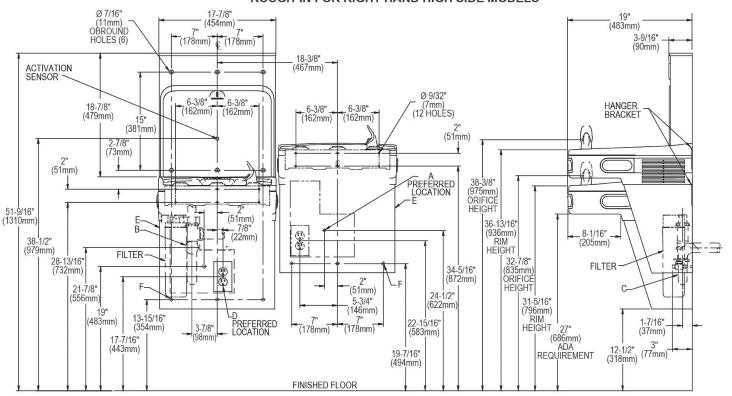
Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical

will connect through pre-punched hole in basin.

These products are designed to operate on 20 psi to 105 psi supply line pressure. Simultaneous operation of both bubblers on a bi-level unit may not be possible depending on water supply pressure. If simultaneous operation is desired, please ensure a minimum of 65 psi supply.



ROUGH-IN FOR RIGHT-HAND HIGH SIDE MODELS



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

- A = Recommended Water Supply location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated copper tube. Up to 3" (76mm) maximum out from wall. B = Recommended Waste Outlet location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) out from wall.
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 E = Insure proper ventilation by maintaining 6" (152mm) minimum clearance from cabinet louvers to wall.
- F = 7/16" (11mm) Bolt Holes for fastening to wall.

Note: New Installations Must Use Ground Fault Circuit Interrupter (GFCI). It is highly recommended that the circuit be dedicated and the load protection be sized for 20 amps.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Consultant Fills Out
Contractor Fills Out
Kent State Fills Out

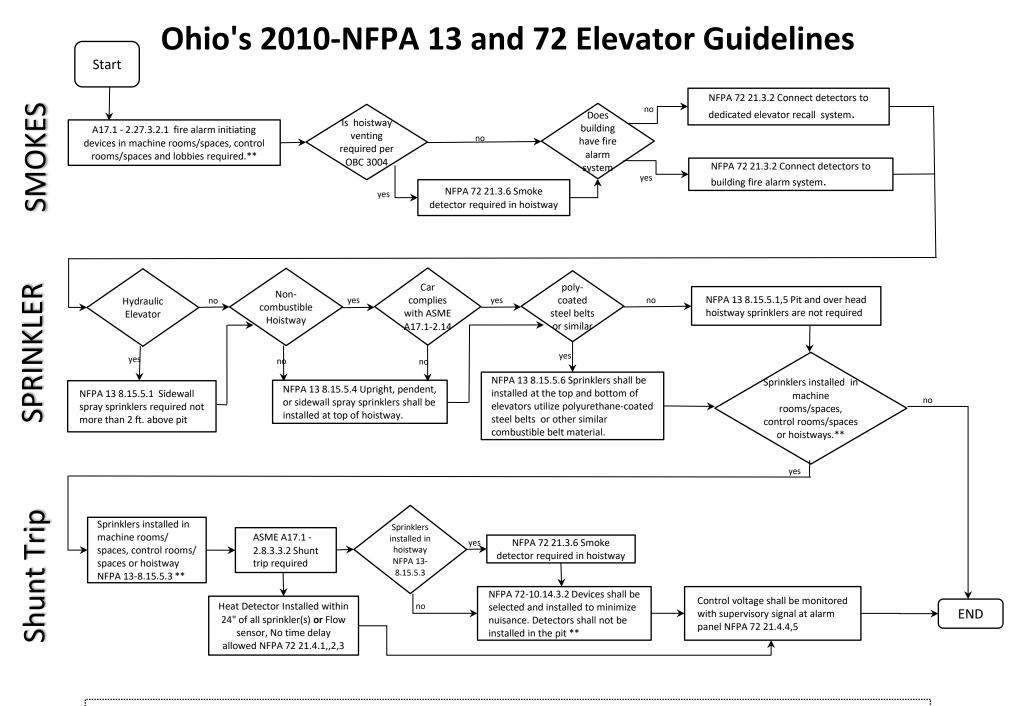
Item #1	Item #2	Item #3	Item #4	Item #5	Item #6	Item #7	Item #8	Item #9	Item #10	Item #11	Item #12	Item #13	Item #14	tem #15	Item #16	Item #17	Item #18	Item #19	Item #20	Item #21	Item #22
Equip. ID	Description	Serves	Manufacturer	Warranty	Vendor PO	Equip. Type	Model	Serial No.	Filter Size	QTY	Belt Size	QTY	PM interval		Room #			Acc. Index		Assessment	Acquisition
	·			Exp Date														1		Date	Date Acqui
				Usage Exp														1			Cost
				Vendor PO#														1			PO#
																		1			Vendor
DIH-CWP-1	Chilled Water Pump	Chilled Water for	TACO	1/1/2021	DI HUB	Pump	FI5011	550632/1	-		-	-	Semi-annual	DIH	134A	1st	Excellent	1			ALLIED EQ
		Building								-											
DIH-CWP-2	Chilled Water Pump	Chilled Water for	TACO	1/1/2021	DI HUB	Pump	FI5011	550632/2	-		-	-	Semi-annual	DIH	134A	1st	Excellent				ALLIED EQI
		Building								-											
DIH-CWP-3	Chilled Water Pump	Chilled Water for	TACO	1/1/2021	DI HUB	Pump	1915e	11256	-		-	-	Semi-annual	DIH	134A	1st	Excellent				ALLIED EQ
	·	Kitchen				·				-											
DIH-HWP-1	Heating Water Pump	Heating Water for	TACO	1/1/2021	DI HUB	Pump	FI4011C	550631/7/1	-		-	-	Semi-annual	DIH	134A	1st	Excellent				ALLIED EQI
		Building		-, -,				.,.,		-											
DIH-HWP-2	Heating Water Pump	Heating Water for	TACO	1/1/2021	DI HUB	Pump	FI4011C	550631/7/2	-		-	-	Semi-annual	DIH	134A	1st	Excellent				ALLIED EQ
D 1	reading water rump	Building	17100	1,1,2021	511105	· ump	11-10110	330031/1/2		-			Semi dimadi	J	15-171	230	Executeric	1			ALLIED EG
DIH-HWP-3	Heating Water Pump	RTU-1 PREHEAT	TACO	6/1/2021	DI HUB	Pump	KV3007	560859	-	-	-	-	Semi-annual	DIH	Roof	Roof	Excellent				ALLIED EC
DIH-HWP-4	Heating Water Pump	RTU-2 REHEAT	TACO	6/1/2021	DIHUB	Pump	2430	10912	-	-	-		Semi-annual	DIH	Roof		Excellent	r +			ALLIED EC
DIH-AS-1	Air / Dirt Separator	HEATING WATER	TACO	1/1/2021	DIHUB	AS	4908ADR-125	550631/2	-	-	-		Semi-annual	DIH	134A	1st	Excellent				ALLIED EC
DIH-EXT-1	Expansion Tank	HEATING WATER	TACO	1/1/2021	DI HUB	Expansion	CA-450	M7317.5C	_				Annual	DIH	134A	1st	Excellent	+	+		ALLIED EC
DIH-EXI-1	Expansion rank	HEATING WATER	TACO	1/1/2021	DINOB	Tank	CA-430	W17517.5C	-	-	-		Allitual	DIH	1344	151	Excellent				ALLIED EC
DIH-EXT-2	Expansion Tank	CHILLED WATER	TACO	1/1/2021	DI HUB	Expansion	CA-90	550631/1					Annual	DIH	134A	1st	Excellent				ALLIED EC
DIN-EXT-2	Expansion rank	CHILLED WATER	TACO	1/1/2021	DINOB	Tank	CA-50	330031/1	-	-	-		Allitual	DIH	1344	151	Excellent				ALLIED EC
DIH-HX-1	Constant Hall Water Hard State of the con-	DUU DING UEATING	TACO	4 /4 /2024	B11111B									DIH	134A	4.1	F	+			
DIH-HX-1	Steam to Hot Water Heat Exchanger		TACO	1/1/2021	DI HUB	HX	545343.5	554355 /a	-	-	-	-		DIH	134A	1st	Excellent				
		WATER					E16212-S	551355/1					Semi-annual						\longrightarrow		ALLIED EQUI
DIH-HX-2	Steam to Hot Water Heat Exchanger		TACO	1/1/2021	DI HUB	HX			-	-	-	-		DIH	134A	1st	Excellent				
		WATER					E16212-S	551355/2					Semi-annual								ALLIED EQUI
DIH-SRV-1	Steam Safety Relief Valve	Steam Relief - Set to 30	WATSON MCDANIEL	7/1/2021	DI HUB	Relief Valve	SVI-20F-22F-N	293209/1	-	_	-	-	Annual	DIH	134A	1st	Excellent				ALLIED EC
		psig								_											
DIH-HPRV-1	Hydronic Pressure Reducing Valve	BUILDING HEATING	WATTS	8/7/2021	DI HUB	Pressure	LFU5B	-	-		-	-	Annual	DIH	134A	1st	Excellent				ALLIED E
		WATER				Reducing				-											
						Valve															
DIH-HRV-1	Hydronic Relief Valve	BUILDING CHILLED	WATTS	8/7/2021	DI HUB	Relief Valve	530C	-	-		-	-	Annual	DIH	134A	1st	Excellent				ALLIED EC
	,	WATER	-							-											
DIH-HRV-2	Hydronic Relief Valve	BUILDING HEATING	WATTS	8/7/2021	DI HUB	Relief Valve	174A	_	-		-		Annual	DIH	134A	1st	Excellent	r +			ALLIED EC
Diritint 2	Tryarome nener valve	WATER	***************************************	0,7,2021	511105	nener varve	27-171			-			7 1111001	J	15-171	230	Executeric				/ LELIED EX
DIH-SPRV-1	Steam Pressure Reducing Valve	Steam Reducing Valve	SPENCE	8/7/2021		Reducing	Type E	E-C1G9A1 417697 0719	-				Annual	DIH	134A	1st	Excellent	-			W.M. WILS
DIH-3FKV-1	Steam Fressure Reducing Valve	for Heat Exchangers	SPEINCE	0/1/2021		Valve	Type L	E-CIGSAI 41/03/ 0/13	-		-		Allitual	DIH	134M	151	Excellent				W.IVI. WILS
		(Set at 15 psig)				valve															
DUL CDDV 2	Steen Brown or Bod Stee Weller		CDENICE	0/7/2024		B. J. C.	T F	F C411044 447C07.0740						5	4244	4.1	F	+			14/ 14 14/III G
DIH-SPRV-2	Steam Pressure Reducing Valve	Steam Reducing Valve	SPENCE	8/7/2021		Reducing	Type E	E-C1H9A1 417697 0719	-		-	-	Annual	DIH	134A	1st	Excellent				W.M. WILSO
		for Heat Exchangers				Valve				-											
		(Set at 12 psig)																			
DIH-T-1	Steam Trap	High Pressure Drip	ARMSTRONG	8/7/2021		Steam Trap	CD-33	A299913C-1	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
		Trap																			
DIH-T-2-1	Steam Trap	HX-1	ARMSTRONG	8/7/2021		Steam Trap	KD	A299913C-2	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
DIH-T-2-2	Steam Trap	HX-1	ARMSTRONG	8/7/2021		Steam Trap	KD	A299913C-3	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
DIH-T-2-3	Steam Trap	HX-2	ARMSTRONG	8/7/2021		Steam Trap	KD	A299913C-4	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
DIH-T-2-4	Steam Trap	HX-2	ARMSTRONG	8/7/2021		Steam Trap	KD	A299913C-5	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
DIH-T-2-5	Steam Trap	SPR Station Drip Trap	ARMSTRONG	8/7/2021		Steam Trap	KD	A299913C-6	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
DIH-T-3	Steam Trap	Snowmelt System	ARMSTRONG	8/7/2021		Steam Trap	В	A299913C-7	-	-	-	-	Annual	DIH	134A	1st	Excellent	1			MERLO EN
DIH-T-4	Steam Trap	Drip Trap	ARMSTRONG	8/7/2021		Steam Trap	811	A299913C-8	-	-	-	-	Annual	DIH	134A	1st	Excellent				MERLO EN
CP-1	Steam Condensate Return Pump	Builing Steam	WATSON MCDANIEL	7/1/2021	DI HUB	Condensate	PMPC	293209/2	-		-	-	Semi-annual	DIH	134A	1st	Excellent				ALLIED E
		Condensate Return to		., _,		Pump		22220,2		_											
		SSPP Boiler System																			
DIH-AHU-1	Air Handling Unit	OA FCU 1st Floor, 2nd	TRANE	4/9/2022	NJD426	AHU	CSAA030UA	K19G66622	12x24x4 MERV 14	3	-	_	Quarterly	DIH	134A	1st	Excellent	r +			TRAN
DIII-AIIO-1	All Halldling Offic	Floor North	IIIAIL	4/3/2022	1000420	Allo	CJANOJOUA	KIJGOODZZ	16x20x4 MERV 14	2			Quarterry	Dill	1340	130	LACCHETIC				THOUSE .
		FIOOI NOITH							20x24x4 MERV 14	6	-										
										_											
									12x24x2 MERV 8	6											
									16x20x2 MERV 8	-											
									20x24x2 MERV 8	12											
DIH-AHU-2	Air Handling Unit	OA FCU 2nd Floor	TRANE	4/2/2022	NJD426	AHU	CSAA021UA	K19G66639	16x25x4 MERV 14	4	-	-	Quarterly	DIH	134A	1st	Excellent				TRAN
		South, 3rd Floor Sout							20x25x4 MERV 14	3											
									16x25x2 MERV 8	8											
									20x25x2 MERV 8	6											
DIH-AHU-3	Air Handling Unit	Auditorium	TRANE	4/9/2022	NJD426	AHU	CSAA012UA	K19H67180	16x20x4 MERV 14	6	-	-	Quarterly	DIH	134A	1st	Excellent	1			TRAN
									16x20x2 MERV 8	12											
DIH-MAU-1	Makeup Air Unit	Second Floor	TRANE	3/27/2022	NJD426	MAU	CSAA021UA	K19G66606	16x25x4 MERV 13	4	-	-	Quarterly	DIH	134A	1st	Excellent				TRAN
-		Production Kitchen					1		20x25x4 MERV 13	3	1		1	l		1					
							1		16x25x2 MERV 8	4	1			l							1
							1		20x25x2 MERV 8	3	1			l							
DIH-RTU-1	Rooftop Makeup Air Unit	3rd Floor Kitchen and	TRANE	7/14/2021	NJD426	RTU	PSCA062UBAA0	K19LK86723	24x24x4 MERV13	16		+	Quarterly	DIH	Roof	Roof	Excellent	\rightarrow	\longrightarrow		TRAN
ה-מוא-חוק	Roottop wakeup Air Unit		INAINE	//14/2021	NJU420	NIU	FJCAUOZUBAAU	K13LK80/23			1 -	1	Quarterly	DIL	NUUI	NOOI	excellent				IKAN
DILL DTV 2	Deeffee Mail At 11.	Dining	TDANE	C /0 /2024	NUDAGE	DT:	CCAACCCUS	1120000000	24x24x2 MERV 8			+	0	D	Dr.: f	Dr. C	Francii	\longrightarrow	\longrightarrow		TD / **
DIH-RTU-2	Rooftop Makeup Air Unit	DIH Instructional	TRANE	6/8/2021	NJD426	RTU	CSAA030UB	H20B09828	12x24x4 MERV 13	3	-	-	Quarterly	DIH	Roof	Roof	Excellent				TRAN
		Kitchen					1		16x20x4 MERV 13	2	1			l							1
			i .	i l	l	1			20x24x4 MERV 13	6	1	1	1	l		1	l				1
									12x24x2 MERV 8 16x20x2 MERV 8	3								'			

1	T.	0.00		i .		ı	ii.	1	i					i i	1			1 1
				. / /					20x24x2 MERV 8	6		_					- " .	
DIH-ECU-1 DIH-ECU-2	Environmental Conditioning Unit Environmental Conditioning Unit	Rm 149 Rm 138A	MITSUBISHI	1/14/2025	NJD426 NJD426	ECU ECU	PKA-A24KA7 PKA-A36KA7	9YM08888 98M04979	Washable Washable	1	-			DIH	126 135		Excellent Excellent	TRANE TRANE
DIH-ECU-3	Environmental Conditioning Unit		MITSUBISHI	1/14/2025	NJD426 NJD426	ECU	PKA-A36KA7	98W04979 9YM09026	Washable	1	-			DIH	227	2nd	Excellent	TRANE
DIH-ECU-4	Environmental Conditioning Unit	Rm 138B	MITSUBISHI	1/14/2025	NJD426	ECU	PKA-A24KA7	9YM08893	Washable	1	-		,	DIH	135A	1st	Excellent	TRANE
DIH-ECU-5	Environmental Conditioning Unit	Rm 327	MITSUBISHI	1/14/2025	NJD426	ECU	PKA-A24KA7	9YM09027	Washable	1	-			DIH	324B	3rd	Excellent	TRANE
ACCU-1	Air Cooled Condensing Unit	ECU-1	MITSUBISHI	1/14/2025	NJD426	ACCU	PUZ-A24NHA7	99U14626D	-	-	-		,	DIH	Roof		Excellent	
ACCU-2	Air Cooled Condensing Unit	ECU-2	MITSUBISHI	1/14/2025	NJD426	ACCU	PUZ-A36NHA7	9XU11050A	-	-	-			DIH	Roof	Roof	Excellent	
ACCU-3	Air Cooled Condensing Unit	ECU-3	MITSUBISHI	1/14/2025	NJD426	ACCU	PUZ-A24NHA7	99U14625D	-	-	-		arterly I	DIH	Roof	Roof	Excellent	
ACCU-4	Air Cooled Condensing Unit	ECU-4	MITSUBISHI	1/14/2025	NJD426	ACCU	PUZ-A24NHA7	99U14625D	-	-	-	- Qu	arterly I	DIH	Roof	Roof	Excellent	
ACCU-5	Air Cooled Condensing Unit	ECU-5	MITSUBISHI	1/14/2025	NJD426	ACCU	PUZ-A24NHA7	99U14629D	-		-	- Qui	arterly I	DIH	Roof	Roof	Excellent	
DIH-EF-1	Exhaust Fan	RM 150F Equipment	COOK	8/1/2021		EF	CF SWSI	240SI56114-01/0000701	-	-	AX-59	1 Qua	arterly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-2	Exhaust Fan	RM 150H General Exhaust	СООК	8/1/2021		EF	ACRUD-EC	240SI56114-001740	-	-	-	Qui	arterly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-3	Exhaust Fan	RM 150A (5) Extraction Arms	COOK	8/1/2021		EF	CPS	240SI56114-01/0002601	-	-	A33	1 Qui	arterly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-4	Exhaust Fan	RM 150L General Exhaust	СООК	8/1/2021		EF	CPS	240SI56114-01/0004101	-	-	A30	1 Qua	arterly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-5	Exhaust Fan	RM 150L (2) Extraction Arms	соок	8/1/2021		EF	CF SWSI	240SI56114-01/0005601	-	-	A61	1 Qui	arterly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-6	Exhaust Fan	Restrooms 130, 132, 133A	СООК	8/1/2021		EF	ACRUH-EC	240SI56114-00/0019501	-	-	-	Semi	i-annual I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-7	Exhaust Fan	Restrooms 220, 222, 224A, 225, 320, 322, Custodial 223	СООК	8/1/2021		EF	ACRU-D VF	240SI56114-00/0020601	-	-	-	Semi	i-annual I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-8	Exhaust Fan	RM 150P Spray Booth	COOK	8/1/2021		EF	IMH	240SI56114-01/0007501	-	-	A59	2 Quart	terly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-9	Exhaust Fan	RM 150P Extraction	COOK	8/1/2021		EF					-	2 0,0011		DIH	Roof	Roof	Excellent	MUSSUN
DIH-EF-10	Exhaust Fan	Arm RM 150 (2) Extraction	FanAM	8/1/2021		EF	CPS	240SI56114-01/0009701	-	-	A31	1 Quart	-	DIH	Roof	Roof	Excellent	MUSSUN
		Arms					CAV-100	DOM 01/20	-	-		Quart	terly					
DIH-EF-11 DIH-FF-12	Exhaust Fan Exhaust Fan	RM 324, 324A, 324B RM 146 (2) Extraction	COOK FanAM	8/1/2021 8/1/2021		EF EF	ACRU-D VF	240SI56114-00/0018401	<u> </u>	-	A61	2 Quart		DIH	Roof Roof		Excellent Excellent	MUSSUN MUSSUN
		Arms		8/1/2021		EF	CAV-100	DOM 01/20	-	-		Quart		DIH	KOOI	KOOI	excellent	MUSSUN
DIH-EF-13	Exhaust Fan	Rm 205 Equipment	COOK						-	-								
DIH-KEF-1	Kitchen Exhaust Fan	Foodology HOOD#9	COOK	8/1/2021		KEF	VCR-XP	240SI56114-00/0013301	-	-	AX-35	1 Quart		DIH	Roof		Excellent	MUSSUN
DIH-KEF-2	Kitchen Exhaust Fan	RM 224K HOOD#1	COOK	8/1/2021		KEF	VCR-HP	240SI56114-00/0000701	-	-	AX-22	1 Quart		DIH	Roof	Roof	Excellent	MUSSUN
DIH-KEF-3	Kitchen Exhaust Fan	Foodology HOOD#10	COOK	8/1/2021		KEF	VCR	240SI56114-00/0002101	-	-	AX-24	1 Quart		DIH	Roof		Excellent	MUSSUN
DIH-KEF-4	Kitchen Exhaust Fan	RM 350 HOOD#8	COOK	8/1/2021		KEF	VCRD-XP	240SI56114-00/0006201	-	-		Quart		DIH	Roof	Roof	Excellent	MUSSUN
DIH-KEF-5 DIH-KEF-6	Kitchen Exhaust Fan	RM 350 HOOD#7	COOK	8/1/2021		KEF	VCR-XP	240SI56114-00/0003501	-	-	A32	2 Quart	terly	DIH	Roof	Root	Excellent	MUSSUN
				- /- /												- /		
	Kitchen Exhaust Fan	RM 350 HOOD#6	COOK	8/1/2021		KEF	VCR-XP	240SI56114-00/0004901	-	-	AX-34	2 Quart		DIH	Roof		Excellent	MUSSUN
DIH-KEF-7	Kitchen Exhaust Fan	RM 350 HOOD#5	соок	8/1/2021		KEF KEF	VCR-XP VCR-HP	240SI56114-00/0007701	-	-	A20	1 Quart	terly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-KEF-7 DIH-KEF-8	Kitchen Exhaust Fan Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2	COOK	8/1/2021 8/1/2021		KEF KEF KEF	VCR-XP		-	-			terly I	DIH	Roof Roof	Roof Roof	Excellent Excellent	MUSSUN MUSSUN
DIH-KEF-7	Kitchen Exhaust Fan	RM 350 HOOD#5	соок	8/1/2021		KEF KEF	VCR-XP VCR-HP	240SI56114-00/0007701	-	-	A20	1 Quart 2 Quart	terly I	DIH	Roof	Roof	Excellent	MUSSUN
DIH-KEF-7 DIH-KEF-8	Kitchen Exhaust Fan Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher	COOK	8/1/2021 8/1/2021		KEF KEF KEF	VCR-XP VCR-HP VCR-XP	240SI56114-00/0007701 240SI56114-00/0009101	-	-	A20 A35	1 Quart	terly I	DIH	Roof Roof	Roof Roof	Excellent Excellent	MUSSUN MUSSUN
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9	Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD	COOK COOK	8/1/2021 8/1/2021 8/1/2021		KEF KEF KEF	VCR-XP VCR-HP VCR-XP	240SI56114-00/0007701 240SI56114-00/0009101 240SI56114-00/0010501	-	-	A20 A35 A22	1 Quart 2 Quart 1 Quart	terly I terly I terly I terly I terly I	DIH DIH	Roof Roof Roof	Roof Roof	Excellent Excellent Excellent	MUSSUN MUSSUN MUSSUN
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10	Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher	COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2020		KEF KEF KEF KEF KEF	VCR-XP VCR-HP VCR-XP VCR-XP VCR-XP	240SI56114-00/0007701 240SI56114-00/0009101 240SI56114-00/0010501 240SI56114-00/0011901 240SI66287-00/0000701 240SI66287-00/0002901	-	-	A20 A35 A22 A20	1 Quart 2 Quart 1 Quart	terly I terly I terly I terly I terly I terly I	DIH DIH DIH	Roof Roof Roof	Roof Roof Roof	Excellent Excellent Excellent Excellent	MUSSUN MUSSUN MUSSUN MUSSUN
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11	Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#4	COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2020 8/1/2021		KEF KEF KEF KEF	VCR-XP VCR-HP VCR-XP VCR-XP VCR-XP CPS	240Si56114-00/0007701 240Si56114-00/0009101 240Si56114-00/0010501 240Si56114-00/0011901 240Si56114-00/0011901 240Si66287-00/0000701	-	-	A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart	terly I	DIH DIH DIH DIH	Roof Roof Roof Roof	Roof Roof Roof Roof Roof	Excellent Excellent Excellent Excellent Excellent Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A	Kitchen Exhaust Fan	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3	COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2020 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021	842041	KEF KEF KEF KEF KEF KEF FCU	VCR-XP VCR-HP VCR-XP VCR-XP VCR-XP CPS CPS	240SI56114-00/0007701 240SI56114-00/0009101 240SI56114-00/0010501 240SI56114-00/0011901 240SI66287-00/0000701 240SI66287-00/0002901		-	A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart	terly I terly	DIH DIH DIH DIH DIH	Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof	Excellent Excellent Excellent Excellent Excellent Excellent Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A	Kitchen Exhaust Fan Supply Fan Fan Coil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100	COOK COOK COOK COOK COOK COOK LOOK COOK LEC LEC	8/1/2021 8/1/2021 8/1/2021 8/1/2020 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021	842041	KEF KEF KEF KEF KEF FCU FCU	VCR-XP VCR-HP VCR-XP VCR-XP VCRX CPS CPS CPS SOND-XP CPY12 CPY12	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0011901 240S166287-00/0000701 240S166287-00/0002901 240S165114-00/0016101 842041-70-8 842041-00-12	10x62x1 MERV 8	1 1	A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart Quart Quart Quart	terly I terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof St 1st 1st 1st	Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN WADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A	Kitchen Exhaust Fan Supply Fan Fan Coil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041	KEF KEF KEF KEF KEF FCU FCU	VCR-XP VCR-HP VCR-XP VCR-XP VCR-XP CPS CPS CPS SOND-XP CPY12 CPY12 CPY12	240S166114-00/0007701 240S166114-00/0009103 240S166114-00/0010501 240S166114-00/0011901 240S166114-00/0010901 240S166287-00/00002901 240S16614-00/0016101 842041-70-8 842041-00-12	10x62x1 MERV 8 10x62x1 MERV 8	- - - - - - 1 1 1	A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart 1 Quart 2 Quart 2 Quart Quart Quart	terly iterly ite	DIH	Roof Roof Roof Roof Roof Roof Roof 160 100 100	Roof Roof Roof Roof Roof Roof St 1st 1st 1st 1st	Excellent	MUSSUN WADSWORTH WADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2A	Kitchen Exhaust Fan Supply Fan Fan Coil Unit Fan Coil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishswasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041	KEF KEF KEF KEF KEF FCU FCU KEF	VCR-XP VCR-HP VCR-XP VCR-XP VCRX CP5 CP5 CP5 CP5 CP12 CPY12 CPY12 CPY12 CPY12	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/001901 240S156114-00/0011901 240S166287-00/0000701 240S166287-00/0002901 240S166114-00/0016101 842041-70-8 842041-70-8 842041-00-12 842041-00-12	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart Quart Quart Quart Quart	terly I terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100M	Roof Roof Roof Roof Roof Roof St 1st 1st 1st	Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN WADSWORTH WADSWORTH WADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B	Kitchen Exhaust Fan Gulply Fan Fan Coil Unit Fan Coil Unit Fan Coil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041	KEF KEF KEF KEF KEF FCU FCU FCU FCU	VCR-XP VCR-HP VCR-HP VCR-XP VCRX CPS CPS CPS SQND-XP CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0011901 240S1661287-00/0000701 240S166287-00/00002901 240S166287-00/0002901 240S156114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-10	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Semi- Qui Qui Qui Qui	terly I terly	DIH	Roof Roof Roof Roof Roof 160 100 100 100 100M 150D	Roof Roof Roof Roof Roof Roof St 1st 1st 1st 1st 1st	Excellent	MUSSUN WADSWORTH WADSWORTH WADSWORTH WADSWORTH WADSWORTH WADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-3 DIH-FCU 1-4A	Kitchen Exhaust Fan Supply Fan Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishswasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floors: Rm 150F STAIR/LOBBY F1-100	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-XP VCR-XP VCR-XP VCR-XP CPS CPS CPS CPS CPV12 CPY12 CPY12 CPY12 CPY12 CPY112	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0011001 240S166287-00/0000701 240S166287-00/0000701 240S166124-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart 2 Quart Quart Quart Quart Quart Quart Quart Quart	terly I terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F	Roof Roof Roof Roof Roof Roof St 1st 1st 1st 1st 1st 2nd	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2A DIH-FCU 1-3 DIH-FCU 1-4A DIH-FCU 1-4A	Kitchen Exhaust Fan Supply Fan Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ibishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041	KEF KEF KEF KEF KEF KEF CU FCU FCU FCU FCU FCU FCU FCU	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CPS CPS SGND-XP CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY112	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/001901 240S156114-00/0011901 240S165114-00/0011901 240S166287-00/0000701 240S166287-00/0002901 240S166287-00/0016101 842041-70-8 842041-00-12 842041-00-12 842041-00-10 842041-00-10 842041-00-10 842041-00-12 842041-00-12 842041-00-12	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quar	terly 1 terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 150D 260F 230B	Roof Roof Roof Roof Roof Roof St 1st 1st 1st 1st 1st 2nd 2nd	Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-4B	Kitchen Exhaust Fan Gul Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150B	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCRX CPS CPS SQND-XP CPY12	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0011901 24051661287-00/0002901 240516614-00/0011901 240516614-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart 2 Quart	terly 1 terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 260F 230B	Roof Roof Roof Roof Roof Roof St	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-4B DIH-FCU 1-5 DIH-FCU 1-5	Kitchen Exhaust Fan Gul Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishswasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D STAIR/LOBBY F1-100 RM 150D STAIR/LOBBY F1-100 RM 150B RM 150B RM 150B	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2020 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041	KEF KEF KEF KEF KEF KEF KEF KEF FCU FCU FCU FCU FCU FCU FCU FCU FCU FC	VCR-XP VCR-HP VCR-HP VCR-XP VCRX CPS CPS SOND-XP CPY12 CPY10 CPY12 CPY12 CPY10 CPY12 CPY02 CPY03	240S156114-00/0007701 240S156114-00/00093101 240S156114-00/0010501 240S156114-00/0011901 240S166287-00/0000291 240S166287-00/00002901 240S166287-00/0002901 240S166114-00/0016101 842041-70-8 842041-00-12 842041-00-12 842041-00-10 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-02 842041-00-02	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8	- - - - - - - 1 1 1 1 1 1 1 1 1	A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Qui	terly terly	DIH	Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F 230B 150A	Roof Roof Roof Roof Roof Roof St	Excellent	MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-5 DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-6	Kitchen Exhaust Fan Gui Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150B RM 150B RM 150A RM 150B	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CPS CPS SQND-XP CPY12 CPY10 CPY12 CPY00 CPY17 CPY00	2405156114-00/0007701 2405156114-00/0009101 2405156114-00/0010501 2405156114-00/0011901 2405156114-00/0011901 2405166287-00/0000701 2405166287-00/00002901 2405166287-00/00001 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-03 842041-00-03 842041-00-03	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x40x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Quart	terly 1 annual 1 arterly 1 a	DIH	Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F 230B 150B 150B	Roof Roof Roof Roof Roof Roof Roof Roof	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-7	Kitchen Exhaust Fan Gui Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F ISHbwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 15t Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150A RM 150A RM 150A RM 150A RM 150A RM 150A	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CPS CPS CSOND-XP CPY12 CPY10 CPY12 CPY10 CPY00 CPY00 CPY00 CPY00 CPY00	2405166114-00/0007701 2405166114-00/0009101 2405166114-00/0010501 2405166114-00/0011091 2405166287-00/0000701 2405166287-00/0000991 2405166144-00/001601 342041-00-12 342041-00-12 342041-00-12 342041-00-12 342041-00-13 342041-00-13 342041-00-03 342041-00-03 342041-00-03 342041-00-03 342041-00-03	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x40x1 MERV 8 10x40x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 1 Quart 1 Quart 1 Quart 1 Quart 2 Qui 2 Qu	terly 1 terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F 230B 150B 150A 150	Roof Roof Roof Roof Roof Roof Stof Stof Stof Stof Stof Stof Stof S	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-5 DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-6	Kitchen Exhaust Fan Gui Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150B RM 150B RM 150A RM 150B	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CPS CPS SQND-XP CPY12 CPY10 CPY12 CPY00 CPY17 CPY00	2405156114-00/0007701 2405156114-00/0009101 2405156114-00/0010501 2405156114-00/0011901 2405156114-00/0011901 2405166287-00/0000701 2405166287-00/00002901 2405166287-00/00001 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-03 842041-00-03 842041-00-03	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x16x1 MERV 8 10x16x1 MERV 8 10x22x1 MERV 8 10x40x1 MERV 8 10x18x1 MERV 8		A20 A35 A22 A20 A201	1 Quartin 2 Quartin 1 Quartin 2 Quartin 1 Quar	terly 1 terly	DIH	Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F 230B 150B 150B	Roof Roof Roof Roof Roof Roof State 1st State 1st State 2nd State 1st	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4B DIH-FCU 1-4B DIH-FCU 1-4B DIH-FCU 1-4B DIH-FCU 1-5 DIH-FCU 1-7 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9	Kitchen Exhaust Fan Goll Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishswasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 Rm 150D STAIR/LOBBY F1-100 Rm 150B Rm 150B Rm 150A Rm 150B Rm 150A Rm 150B Rm 150A Rm 150C	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CP5 CP5 SGND-XP CP112 CP112 CP112 CP112 CP112 CP112 CP112 CP112 CP10 CP112 CP10 CP10 CP10 CP10 CP10 CP10 CP10 CP10	240S156114-00/0007701 240S156114-00/0009303 240S156114-00/001901 240S156114-00/0011901 240S156287-00/0002901 240S166287-00/0002901 240S166287-00/0002901 240S166114-00/0016101 842041-70-8 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-02 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x40x1 MERV 8 10x40x1 MERV 8		A20 A35 A22 A20 A201	1 Quarti 2 Quarti 2 Quarti 2 Quarti 2 Quarti 1 Quarti 2 Q	terly 1 terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 260F 230B 150B 150A 150 150	Roof Roof Roof Roof Roof Roof Roof St	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4B DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-7 DIH-FCU 1-9 DIH-FCU 1-9 DIH-FCU 1-10	Kitchen Exhaust Fan Supply Fan Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F DIShwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flooor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150A RM 150B RM 150B RM 150C	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CPS CPS SQND-XP CPY12 CPY10 CPY12 CPY00	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405166114-00/0010901 24051661287-00/0002901 2405166141-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-02 842041-00-02 842041-00-02 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8		A20 A35 A22 A20 A201	1 Quartin 2 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100M 150D 230B 150B 150A 150 150 150 150 150 150 150 150 150 150	Roof Roof Roof Roof Roof Roof Roof St	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-9 DIH-FCU 1-9	Kitchen Exhaust Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishiwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D STAIR/LOBBY F1-100 RM 150D RM 150B RM 150B RM 150B RM 150B RM 150B RM 150B RM 150C RM 150C	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF KEF KEF KEF KEF KEF KEF KEF CU FCU FCU FCU FCU FCU FCU FCU FCU FCU	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CP5 CP5 SQND-XP CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY08 CPY08 CPY00	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0010501 240S156114-00/00109101 240S156287-00/0000701 240S156287-00/00002901 240S156144-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-02 842041-00-03 842041-00-08 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09 842041-00-09	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x54x1 MERV 8 10x54x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x40x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8		A20 A35 A22 A20 A201	1 Quartin 2 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 100M 150D 230B 150B 150B 150 150 150 150 150 150 150 150	Roof Roof Roof Roof Roof Roof Roof St	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-5 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-8 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11	Kitchen Exhaust Fan Gui Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#0 330A Dishwasher HOOD 330A Dishwasher RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150B RM 150B RM 150B RM 150B RM 150C RM 150R RM 150C RM 150R RM 150C RM 150R	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF KEF KEF KEF KEF KEF KEF KEF FCU FCU FCU FCU FCU FCU FCU FCU FCU FC	VCR-XP VCR-HP VCR-HP VCR-XP CPS CPS CPS CPS CPS CPS CPS CPY02 CPY03 CPY03 CPY06 CPY06 CPY06 CPY07 CPY07 CPY07 CPY07 CPY07 CPY08 CPY08 CPY08 CPY08 CPY08 CPY09	2405156114-00/0007701 2405156114-00/0009101 2405156114-00/0010501 2405156114-00/0019501 2405156114-00/0011901 2405156114-00/0011901 24051561287-00/0000701 24051561287-00/0000701 24051561287-00/0000701 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-02 842041-00-03 842041-00-03 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-10 842041-00-18 842041-00-08 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18 842041-00-18	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x6x1 MERV 8		A20 A35 A22 A20 A201	1 Quarti 2 Quarti 1 Quarti 2 Quarti 1 Q	terly leterly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 260F 230B 150A 150 150A 150 150R 150 150R	Roof Roof Roof Roof Roof Roof Roof Roof	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-3 DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-11 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-13	Kitchen Exhaust Fan Gul Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F Ishiwasher HOOD 330A Dishiwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCR-XP VCR-XP VCRX CPS CPS SQND-XP CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010901 2405166127-00/0002901 2405166127-00/0002901 2405166127-00/0002901 2405166127-00/0002901 240516114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-02 842041-00-03 842041-00-03 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01	10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x22x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x18x1 MERV 8 10x62x1 MERV 8 10x6x1 MERV 8 10x6x1 MERV 8 10x6x1 MERV 8 10x6x1 MERV 8 10x6x1 MERV 8 10x6x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 2 Quar	terly iterly ite	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 150D 230B 150B 150B 150B 150 150 150 150 150 150 150 150 150 150	Roof Roof Roof Roof Roof Roof Roof Strand Strand Roof Roof Strand	Excellent	MUSSUN WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-2A DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-12 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-14	Kitchen Exhaust Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F DIShwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 15t Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150R	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CP5 CP5 SQND-XP CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00 CPY01 CPY01 CPY01 CPY01 CPY01 CPY12 CPY12	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0010501 240S156114-00/001091 240S156287-00/0000701 240S156287-00/00002901 240S156114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-13 842041-00-03 842041-00-03 842041-00-03 842041-00-03 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-08 842041-00-08 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8		A20 A35 A22 A20 A201	1 Quarti 2 Quarti 2 Quarti 2 Quarti 1 Q	terly annual arterly	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 260F 230B 150A 150 150R 150R 150R 150N 150N 150N 150N 150N 150N 150N	Roof Roof Roof Roof Roof Roof Roof Roof Ist Is	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-15	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#3 330A Dishwasher RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 Rm 150D Rm 150B Rm 150A Rm 150B Rm 150A Rm 150K Rm 15	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP CPS CPS CPS CPS CPS CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY03 CPY03 CPY08 CPY00 CPY04 CPY04 CPY10 CPY04 CPY12 CPY04 CPY12 CPY08	2405156114-00/0007701 2405156114-00/0009101 2405156114-00/0010501 2405156114-00/0010501 2405156114-00/0011901 2405156114-00/0011901 2405156127-00/00002901 2405156127-00/00002901 2405156127-00/0001501 842041-00-12 842041-00-12 842041-00-12 842041-00-13 842041-00-03 842041-00-03 842041-00-03 842041-00-03 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quartical 1 Quartical 2 Quar	terly letrly let	DIH	Roof Roof Roof Roof Roof Roof 160 100 100 100 100 150D 260F 230B 150A 150 150 150 150 150 150 150 150 150 150	Roof Roof Roof Roof Roof Roof Roof Roof Ist Is	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-14 DIH-FCU 1-15 DIH-FCU 1-16	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#4 HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor; Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D RM 150D RM 150B	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-XP VCR-XP VCR-XP VCR-XP VCRX CPS CPS SQND-XP CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00 CPY01 CP	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/00109101 2405165144-00/0011901 2405165144-00/0011901 2405165144-00/0016101 342041-00-12 342041-00-12 342041-00-12 342041-00-13 342041-00-13 342041-00-13 342041-00-03 342041-00-03 342041-00-03 342041-00-04 342041-00-04 342041-00-04 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-10 342041-00-12 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18 342041-00-18	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quartical 2 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof Ist Is	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-8 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-6 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-12 DIH-FCU 1-14 DIH-FCU 1-15 DIH-FCU 1-16	Kitchen Exhaust Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#4 HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 15t Floor: Rm 150F STAIR/LOBBY F1-100 RM 1500 RM 1500 RM 1500 RM 1500 RM 1500 RM 1500 RM 150N RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VCR-XP VCRX CP5 CP5 SGND-XP CP12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY00 CPY01 CPY0	240S156114-00/0007701 240S156114-00/0009101 240S156114-00/0010501 240S156114-00/0010501 240S156114-00/00109101 240S156287-00/0000701 240S156287-00/0000701 240S156287-00/0000701 240S156114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-03 842041-00-03 842041-00-03 842041-00-04 842041-00-04 842041-00-05 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01 842041-00-01	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8		A20 A35 A22 A20 A201	1 Quartical 1 Quartical 2 Quar	terly	DDIH DDIH DDIH DDIH DDIH DDIH DDIH DDIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof Roof Ist I	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-3B DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-9 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-168 DIH-FCU 1-168 DIH-FCU 1-168 DIH-FCU 1-17	Kitchen Exhaust Fan Gul Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150B RM 150B RM 150B RM 150B RM 150C RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VCPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY02 CPY03 CPY02 CPY04 CPY08 CPY02 CPY04 CPY06 CPY06 CPY07 CPY08 CPY07 CPY08 CPY07 CPY08 CPY08 CPY08 CPY08 CPY08 CPY08 CPY07 CP	2405165114-00/0007701 2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/00109101 24051661287-00/00002901 2405166141-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-02 842041-00-03 842041-00-03 842041-00-03 842041-00-04 842041-00-08 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-04 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x12x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 2 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof Roof Ist I	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-3A DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-1 DIH-FCU 1-1 DIH-FCU 1-1 DIH-FCU 1-1 DIH-FCU 1-1 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-158 DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-16B DIH-FCU 1-16B DIH-FCU 1-16B DIH-FCU 1-17 DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-16B DIH-FCU 1-17 DIH-FCU 1-18	Kitchen Exhaust Fan Supply Fan Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224F ISHbwasher HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#4 RM 235 HOOD#3 15t Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150R RM 150R RM 150R RM 150R RM 150R RM 150R RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VCRX CP5 CP5 SQND-XP CP112 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 240516514-00/0010501 240516514-00/00110501 240516514-00/0011091 2405165287-00/00002901 240516514-00/0011091 240516514-00/0016101 342041-00-12 342041-00-12 342041-00-12 342041-00-13 342041-00-03 342041-00-03 342041-00-03 342041-00-03 342041-00-04 342041-00-04 342041-00-08 342041-00-04 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08	10x62x1 MERV 8 10x18x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof Roof Ist I	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-3 DIH-FCU 1-3 DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-13 DIH-FCU 1-13 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-168 DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-118	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#3 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Flood: Rm 150F STAIR/LOBBY F1-100 Rm 150D Rm 150B Rm 150A Rm 150B Rm 150K Rm 150K Rm 150K Rm 150K Rm 150K Rm 150K Rm 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VC	2405156114-00/0007701 2405156114-00/0009101 2405156114-00/0010501 2405156114-00/0010501 2405156114-00/0010501 2405156114-00/0010501 2405156114-00/00160101 342041-00-12 342041-00-12 342041-00-12 342041-00-12 342041-00-02 342041-00-03 342041-00-03 342041-00-08 342041-00-08 342041-00-08 342041-00-10 342041-00-08 342041-00-10 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08 342041-00-08	10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x22x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 2 Quar	terly iterly ite	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Ist	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-1B DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-16 DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-17 DIH-FCU 1-16A DIH-FCU 1-16A DIH-FCU 1-17 DIH-FCU 1-16A	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#4 RM 225K HOOD#4 RM 235 HOOD#4 RM 235 HOOD#3 15t Floor; Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150D RM 150D RM 150B RM 150B RM 150B RM 150K RM 150K RM 150K RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-HP VCR-XP VC	2405165114-00/0007701 2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/00109101 24051661287-00/00002901 2405166141-00/00160101 342041-00-12 342041-00-12 342041-00-12 342041-00-12 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8 10x63x1 MERV 8 10x63x1 MERV 8 10x63x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Soof Soof	Excelent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-11 DIH-KEF-11 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-3 DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-19 DIH-FCU 2-2 DIH-FCU 2-3	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOODES RM 224K HOODB2 RM 224K HOODB2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOODB4 RM 235 HOODB4 RM 235 HOODB3 1st Flood: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150D RM 150D RM 150D RM 150B RM 150A RM 150C RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VC	2405156114-00/0007701 2405156114-00/0007701 2405156114-00/0009101 2405156114-00/001901 2405156114-00/001901 2405156114-00/001901 2405156114-00/001901 24051561287-00/0002901 2405156114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-03 842041-00-03 842041-00-03 842041-00-08 842041-00-08 842041-00-08 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-10 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x22x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quartical 1 Quartical 1 Quartical 2 Quar	terly letrly let	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Ist 1st 1st 1st 1st 1st 1st 1st 1st 1st 1	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-3B DIH-FCU 1-3B DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-19 DIH-FCU 1-18 DIH-FCU 2-3A DIH-FCU 2-3A DIH-FCU 2-3A	Kitchen Exhaust Fan Gul Unit Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#4 HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 1st Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150D RM 150B RM 150B RM 150B RM 150B RM 150F RM	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP CPS12 CPY12 CPY12 CPY12 CPY12 CPY03 CPY03 CPY03 CPY04 CPY08 CPY06 CPY04 CPY04 CPY12 CPY12 CPY12 CPY12 CPY12 CPY06 CPY08 CPY08 CPY08 CPY08 CPY08 CPY08 CPY09 CPY09 CPY06 CPY07 CPY06 CPY07	2405165114-00/0007701 2405165114-00/0007701 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0011901 240516514-00/00109101 240516514-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-10 842041-00-02 842041-00-03 842041-00-03 842041-00-03 842041-00-04 842041-00-04 842041-00-05 842041-00-05 842041-00-06 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08 842041-00-08	10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quar	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Ist	Excelent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-28 DIH-FCU 1-28 DIH-FCU 1-3 DIH-FCU 1-44 DIH-FCU 1-49 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-9 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-13 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-19 DIH-FCU 2-2 DIH-FCU 2-3 DIH-FCU 2-3 DIH-FCU 2-3 DIH-FCU 2-3	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOODES RM 224K HOODB2 RM 224K HOODB2 RM 224F Dishwasher HOOD 330A Dishwasher RM 235 HOODB4 RM 235 HOODB4 RM 235 HOODB3 1st Flood: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150D RM 150D RM 150D RM 150B RM 150A RM 150C RM 150F	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-HP VCR-XP VCR-XP VCRX CP5 CP5 SQND-XP CP12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY12 CPY10 CPY12 CPY00 CPY10 CPY00 CPY10 CPY00 CPY10 CPY10 CPY10 CPY00 CPY00 CPY00 CPY00 CPY00 CPY10 CPY1	2405165114-00/0007701 2405165114-00/0009101 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 240516614-00/0011091 2405166287-00/00002901 240516614-00/0011091 342041-00-12 342041-00-12 342041-00-12 342041-00-12 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13 342041-00-13	10x62x1 MERV 8 10x12x1 MERV 8		A20 A35 A22 A20 A201	1 Quarti 2 Quarti 1 Quarti 2 Q	terly	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Ist	Excellent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2B DIH-FCU 1-2B DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-4A DIH-FCU 1-4B DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-8 DIH-FCU 1-10 DIH-FCU 1-10 DIH-FCU 1-11 DIH-FCU 1-11 DIH-FCU 1-12 DIH-FCU 1-15 DIH-FCU 1-15 DIH-FCU 1-16 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 2-3 DIH-FCU 2-4 DIH-	Kitchen Exhaust Fan Supply Fan Fan Coil Unit	RM 350 HOOD#5 RM 224K HOOD#2 RM 224K HOOD#2 RM 224K HOOD#4 HOOD 330A Dishwasher RM 235 HOOD#4 RM 235 HOOD#3 15t Floor: Rm 150F STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150R	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021 4/1/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP CPS12 CPY12 CPY12 CPY12 CPY12 CPY03 CPY03 CPY03 CPY04 CPY08 CPY06 CPY04 CPY04 CPY12 CPY12 CPY12 CPY12 CPY12 CPY06 CPY08 CPY08 CPY08 CPY08 CPY08 CPY08 CPY09 CPY09 CPY06 CPY07 CPY06 CPY07	2405165114-00/0007701 2405165114-00/0007701 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010901 24051661287-00/0002901 2405166148-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-13 842041-00-13 842041-00-14 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15 842041-00-15	10x62x1 MERV 8 10x18x1 MERV 8 10x22x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x28x1 MERV 8 10x62x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quart 2 Quar	terly iterly ite	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof	Excelent	MUSSUN MADSWORTH WADSWORTH
DIH-KEF-7 DIH-KEF-8 DIH-KEF-9 DIH-KEF-10 DIH-KEF-11 DIH-KEF-11 DIH-KEF-11 DIH-KEF-12 DIH-SF-1 DIH-FCU 1-1A DIH-FCU 1-1A DIH-FCU 1-1B DIH-FCU 1-2A DIH-FCU 1-2A DIH-FCU 1-3 DIH-FCU 1-3 DIH-FCU 1-4A DIH-FCU 1-5 DIH-FCU 1-6 DIH-FCU 1-7 DIH-FCU 1-10 DIH-FCU 1-16 DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-18 DIH-FCU 1-16B DIH-FCU 1-16B DIH-FCU 1-16B DIH-FCU 1-17 DIH-FCU 1-18 DIH-FCU 1-19 DIH-FCU 1-19 DIH-FCU 1-19 DIH-FCU 1-10 DIH-FCU 2-1 DIH-FCU 2-3 DIH-FCU 2-3 DIH-FCU 2-3 DIH-FCU 2-4 DIH-FCU 2-44 DIH-FCU 2-44	Kitchen Exhaust Fan Gil Unit Fan Coil Unit	RM 350 HOODIS RM 224K HOODIS RM 235 HOODIS 151 Floor: Rm 150F STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D STAIR/LOBBY F1-100 STAIR/LOBBY F1-100 RM 150D RM 150D RM 150D RM 150D RM 150B RM 150A RM 150B RM 150B RM 150B RM 150F R	COOK COOK COOK COOK COOK COOK COOK COOK	8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 8/1/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021 4/17/2021	842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041 842041	KEF KEF	VCR-XP VCR-HP VCR-HP VCR-MP VCR-XP VC	A405165114-00/0007701 2405165114-00/0009101 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010501 2405165114-00/0010501 2405166287-00/0000701 2405166287-00/0000701 24051661287-00/0002901 2405165114-00/0016101 842041-00-12 842041-00-12 842041-00-12 842041-00-12 842041-00-13 842041-00-03 842041-00-03 842041-00-08 842041-00-08 842041-00-08 842041-00-09 842041-00-09 842041-00-09 842041-00-10 842041-00-09 842041-00-09 842041-00-09 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00 842041-00-00	10x62x1 MERV 8 10x18x1 MERV 8 10x28x1 MERV 8 10x32x1 MERV 8 10x3x1 MERV 8 10x18x1 MERV 8		A20 A35 A22 A20 A201	1 Quart 2 Quart 1 Quar	terly iterly ite	DIH	Roof Roof Roof Roof Roof Roof Roof Roof	Roof Roof Roof Roof Roof Roof Roof Roof	Excellent	MUSSUN MADSWORTH WADSWORTH

DIH-FCU 2-6	Fan Coil Unit	Rm 260C	IEC	4/17/2021	842041	FCU	CPY04	842041-00-04	10x28x1 MERV 8	1		Quarterly	DIH	260B 2nd Excellent	WADSWORTH
DIH-FCU 2-7	Fan Coil Unit	Rm 260	IFC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	260G 2nd Excellent	WADSWORTH
DIH-FCU 2-8	Fan Coil Unit	Rm 250A, 250B	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	250A 2nd Excellent	WADSWORTH
DIH-FCU 2-9	Fan Coil Unit	Rm 250	IEC	4/17/2021	842041	FCU	CPY10	842041-00-10	10x54x1 MERV 8	1		Quarterly	DIH	250L 2nd Excellent	WADSWORTH
DIH-FCU 2-10	Fan Coil Unit	Rm 250	IEC	4/17/2021	842041	FCU	CPY10	842041-00-10	10x54x1 MERV 8	1		Quarterly	DIH	2501 2nd Excellent	WADSWORTH
DIH-FCU 2-11A	Fan Coil Unit	Rm 150	IEC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	150 1st Excellent	WADSWORTH
DIH-FCU 2-11B	Fan Coil Unit	Rm 150	IEC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	150 1st Excellent	WADSWORTH
DIH-FCU 2-12A	Fan Coil Unit	Rm 150L	IEC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	150L 1st Excellent	WADSWORTH
DIH-FCU 2-12B	Fan Coil Unit	Rm 150L	IEC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	150L 1st Excellent	WADSWORTH
DIH-FCU 2-13	Fan Coil Unit	Rm 247	IEC	4/17/2021	842041	FCU	CPY10	842041-120-4	10x54x1 MERV 8	1		Quarterly	DIH	249 2nd Excellent	WADSWORTH
DIH-FCU 2-14	Fan Coil Unit	Rm 248	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	244 2nd Excellent	WADSWORTH
DIH-FCU 2-15	Fan Coil Unit	Rm 249	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	245 2nd Excellent	WADSWORTH
DIH-FCU 2-16	Fan Coil Unit	Rm 250F	IEC	4/17/2021	842041	FCU	CPY04	842041-00-04	10x28x1 MERV 8	1		Quarterly	DIH	250G 2nd Excellent	WADSWORTH
DIH-FCU 2-17	Fan Coil Unit	Corridor 200, 245	IEC	4/17/2021	842041	FCU	CPY06	842041-100-3	10x33x1 MERV 8	1		Quarterly	DIH	200D 2nd Excellent	WADSWORTH
DIH-FCU 2-18	Fan Coil Unit	Rm 244, 244A, 244B,	IEC			FCU				1		Quarterly	DIH	247 2nd Excellent	
		244C		4/17/2021	842041		CPY10	842041-00-10	10x54x1 MERV 8	1	- -				WADSWORTH
DIH-FCU 2-19	Fan Coil Unit	Rm 240	IEC	4/17/2021	842041	FCU	CPY04	842041-00-04	10x28x1 MERV 8	1		Quarterly	DIH	240 2nd Excellent	WADSWORTH
DIH-FCU 2-20	Fan Coil Unit	Rm 240	IEC	4/17/2021	842041	FCU	CPY04	842041-30-2	10x28x1 MERV 8	1		Quarterly	DIH	240 2nd Excellent	WADSWORTH
DIH-FCU 2-21	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-130-9	10x62x1 MERV 8	1		Quarterly	DIH	230B 2nd Excellent	WADSWORTH
DIH-FCU 2-22	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-130-7	10x62x1 MERV 8	1		Quarterly	DIH	230B 2nd Excellent	WADSWORTH
DIH-FCU 2-24	Fan Coil Unit	Rm 233	IEC	4/17/2021	842041	FCU	CPY06	842041-00-06	10x33x1 MERV 8	1		Quarterly	DIH	233 2nd Excellent	WADSWORTH
DIH-FCU 2-25	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-70-15	10x62x1 MERV 8	1		Quarterly	DIH	230B 2nd Excellent	WADSWORTH
DIH-FCU 2-26	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-70-14	10x62x1 MERV 8	1		Quarterly	DIH	230A 2nd Excellent	WADSWORTH
DIH-FCU 2-27	Fan Coil Unit	Rm 231, 231A	IEC	4/17/2021	842041	FCU	CPY04	842041-00-04	10x28x1 MERV 8	1		Quarterly	DIH	231A 2nd Excellent	WADSWORTH
DIH-FCU 2-28	Fan Coil Unit	Corridor 100k	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	100F 1st Excellent	WADSWORTH
DIH-FCU 2-29	Fan Coil Unit	Rm 144B	IEC	4/17/2021	842041		CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	134 1st Excellent	WADSWORTH
DIH-FCU 2-30A	Fan Coil Unit	Rm 146	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	126 1st Excellent	WADSWORTH
DIH-FCU 2-30B	Fan Coil Unit	Rm 146	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	126 1st Excellent	WADSWORTH
DIH-FCU 2-31	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-130-6	10x62x1 MERV 8	1		Quarterly	DIH	230A 2nd Excellent	WADSWORTH
DIH-FCU 2-32	Fan Coil Unit	Rm 212	IEC	4/17/2021	842041	FCU	CPY08	842041-00-08	10x40x1 MERV 8	1		Quarterly	DIH	212 2nd Excellent	WADSWORTH
DIH-FCU 2-33	Fan Coil Unit	Rm 230	IEC	4/17/2021	842041	FCU	CPY12	842041-70-11	10x62x1 MERV 8	1		Quarterly	DIH	230A 2nd Excellent	WADSWORTH
DIH-FCU 2-34	Fan Coil Unit	Rm 224, 224B	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	200J 2nd Excellent	WADSWORTH
DIH-FCU 2-35	Fan Coil Unit	Rm 224E	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	224D 2nd Excellent	WADSWORTH
DIH-FCU 2-36	Fan Coil Unit	Rm 224	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	200J 2nd Excellent	WADSWORTH
DIH-FCU 2-37	Fan Coil Unit	Rm 207	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	201 2nd Excellent	WADSWORTH
DIH-FCU 2-38	Fan Coil Unit	Rm 200K	IEC	4/17/2021	842041	FCU	CPY10	842041-60-4	10x54x1 MERV 8	1		Quarterly	DIH	224C 2nd Excellent	WADSWORTH
DIH-FCU 2-39	Fan Coil Unit	Rm 205	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	203 2nd Excellent	WADSWORTH
DIH-FCU 2-40	Fan Coil Unit	Rm 200K	IEC	4/17/2021	842041	FCU	CPY10	842041-120-5	10x54x1 MERV 8	1		Quarterly	DIH	200 2nd Excellent	WADSWORTH
DIH-FCU 2-41	Fan Coil Unit	Rm 201	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	207 2nd Excellent	WADSWORTH
DIH-FCU 2-42	Fan Coil Unit	Rm 201	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	207 2nd Excellent	WADSWORTH
DIH-FCU 2-43	Fan Coil Unit	Rm 210, 230	IEC	4/17/2021	842041	FCU	CPY06	842041-100-1	10x33x1 MERV 8	1		Quarterly	DIH	210 2nd Excellent	WADSWORTH
DIH-FCU 2-44	Fan Coil Unit	Rm 250	IEC	4/17/2021	842041	FCU	CPY10	842041-00-10	10x54x1 MERV 8	1		Quarterly	DIH	250L 2nd Excellent	WADSWORTH
DIH-FCU 2-45	Fan Coil Unit	Rm 260	IEC	4/17/2021	842041	FCU	CPY03	842041-00-03	10x22x1 MERV 8	1		Quarterly	DIH	260 2nd Excellent	WADSWORTH
DIH-FCU 2-46A	Fan Coil Unit	Corridor 200C	IEC	4/17/2021	842041	FCU	CPY10	842041-00-10	10x54x1 MERV 8	1		Quarterly	DIH	250L 2nd Excellent	WADSWORTH
DIH-FCU 2-46B	Fan Coil Unit	Corridor 200C	IEC	4/17/2021	842041	FCU	CPY10	842041-120-9	10x54x1 MERV 8	1		Quarterly	DIH	200D 2nd Excellent	WADSWORTH
DIH-FCU 2-47	Fan Coil Unit	Rm 224J	IEC	4/17/2021	842041	FCU	CPY02	842041-00-02	10x18x1 MERV 8	1		Quarterly	DIH	224J 2nd Excellent	WADSWORTH
DIH-FCU 3-1A	Fan Coil Unit	Rm 308	IEC	4/17/2021	842041	FCU	CPY12	842041-70-4	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-1B	Fan Coil Unit	Rm 308	IEC	4/17/2021	842041	FCU	CPY12	842041-130-4	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2A	Fan Coil Unit	Rm 308	IEC	4/17/2021	842041	FCU	CPY12	842041-70-16	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2B	Fan Coil Unit	Rm 308	IEC	4/17/2021	842041	FCU	CPY12	842041-130-3	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2C	Fan Coil Unit	Rm 308	IEC	4/17/2021	842041	FCU	CPY12	842041-70-1	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2D	Fan Coil Unit	Rm 306, 308	IEC	4/17/2021	842041	FCU	CPY12	842041-130-2	10x62x1 MERV 8	1	-	Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2E	Fan Coil Unit	Rm 314	IEC	4/17/2021	842041	FCU	CPY12	842041-00-12	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2F	Fan Coil Unit	300K	IEC	4/17/2021	842041	FCU	CPY12	842041-70-2	10x62x1 MERV 8	1		Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-2G	Fan Coil Unit	308, Bridge	IEC	4/17/2021	842041	FCU	CPY12	842041-70-3	10x62x1 MERV 8	1	-	Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-FCU 3-3	Fan Coil Unit	Rm 300K	IEC	4/17/2021	842041	FCU	CPY06	842041-40-1	10x33x1 MERV 8	1	-	Quarterly	DIH	308 3rd Excellent	WADSWORTH
DIH-RP-1	Hydronic Radiant Heating Panel	Rm 100P, 224C, 201,	AEROTECH		DI HUB	RP			-		- -		DIH	100P, 1st, 2nd, Excellent	
		203, 207, 212, 308,												224C, 201, 3rd	
İ		340B								-				203, 207,	
				4/1/2024			AVO	40774				Appur		212, 308,	ALLIED FOLUD
DILL AC 1.1	Hudenia Air Cortei	Vestibule 300M	MARS	4/1/2021	210720	AC.	AXO	10724		-		Annual Semi-annual	DIH	340B 3rd Excellent	ALLIED EQUIP
DIH-AC-1-1 DHI-AC-1-2	Hydronic Air Curtain	Vestibule 300M Vestibule 300M	MARS MARS	7/15/2021 7/15/2021	318729 318729	AC AC	LPV260-1V LPV260-1V	1054130 1054131		-	-	Semi-annual Semi-annual	DIH	300M 3rd Excellent	WADSWORTH WADSWORTH
DHI-AC-1-2 DIH-AC-2	Hydronic Air Curtain Hydronic Air Curtain	Recieving Rm 324	MARS MARS	7/15/2021	318729	AC AC	LPV260-1V LPV242-1V	1054131		-		Semi-annual	DIH	300M 3rd Excellent 323 3rd Excellent	WADSWORTH
DIH-AC-2 DIH-FTR-1	Hydronic Air Curtain Hydronic Finned Tube Radiation	STAIR/LOBBY F1-100	RITTLING	6/1/2021	DI HUB	FTR	Li* V Z#Z*1V	H0052985	-			Annual			ALLIED EQUIP
DIH-FTR-1 DIH-FTR-2	Hydronic Finned Tube Radiation Hydronic Finned Tube Radiation	STAIR/LOBBY F1-100 Rm 247	RITTLING	6/1/2021	DI HUB	FTR	-	H0052985 H0052985	-	-		Annual	DIH	100, 250H 1st, 2nd Excellent 249 2nd Excellent	ALLIED EQUIP ALLIED EQUIP
DIH-FTR-2 DIH-FTR-3	Hydronic Finned Tube Radiation Hydronic Finned Tube Radiation	Rm 24/ RTU-1	RITTLING	6/1/2021	DI HUB	FTR	£	H0052985 H0052985		-		Annual	DIH	Roof Roof Excellent	ALLIED EQUIP
DIH-CUH-1-1	Hydronic Finned Tube Radiation Hydronic Cabinet Heater	Corridor 100K	TRANE	2/5/2022	DI HUB	CUH	FFBB0601E	H20A01821	-			Quarterly	DIH	100K 1st Excellent	TRANE
DIH-CUH-1-1	Hydronic Cabinet Heater	Stair 200F	TRANE	2/5/2022		CUH	FFBB0601E	H20A01822				Quarterly	DIH	200F 2nd Excellent	TRANE
DIH-CUH-1-2 DIH-CUH-1-3	Hydronic Cabinet Heater Hydronic Cabinet Heater	Stair 200E Stair 200G	TRANE	2/5/2022		CUH	FFBB0601E	H20A01822 H20A01823				Quarterly	DIH	200E 2nd Excellent 200G 2nd Excellent	TRANE
DIH-CUH-1-4	Hydronic Cabinet Heater		TRANE	2/5/2022		CUH	FFBB0601E	H20A01824				Quarterly	DIH	324 3rd Excellent	TRANE
DIH-CUH-1-4 DIH-CUH-2	NOT USED	Receiving 324	INAINE	- 2/3/2022	DINUB	сип	- CDDUUUIE	-	L			- quarterly	υП	524 Siu Excellent	- I KAINE
DIH-CUH-2 DIH-CUH-3	Hydronic Cabinet Heater	Vestibule 100A	TRANE	2/5/2022	NJD426	CUH	FFHB1201A	H20A01825			l l	Quarterly	DIH	100A 1st Excellent	TRANE
DIH-CUH-4	Hydronic Cabinet Heater	Vestibule 200A	TRANE	2/5/2022	NJD426 NJD426	CUH	FFEB1201A	H20A01826				Quarterly	DIH	200A 2nd Excellent	TRANE
DIH-CUH-4 DIH-CUH-5	Hydronic Cabinet Heater Hydronic Cabinet Heater	Stair 300G	TRANE	4/29/2022	NJD426 NJD426	CUH	FFDB0601E	H20A01826 H20A01827				Quarterly	DIH	300G 3rd Excellent	TRANE
DIH-COH-5	Hydronic Cabinet Heater	Rm 134A	TRANE	1/17/2021	NJD426 NJD426	UH	UHSB0841T	F20A30118 / F20A30117 / I				Quarterly	DIH	134A 1st Excellent	TRANE
DIH-UH-1-1 DIH-UH-1-2	Hydronic Unit Heater Hydronic Unit Heater		TRANE	1/17/2021	NJD426 NJD426	UH	UHSB08411 UHSB0841T	F20A30118 / F20A30117 / I				Quarterly	DIH	324 3rd Excellent	TRANE
DIH-UH-1-2 DIH-UH-1-3	Hydronic Unit Heater Hydronic Unit Heater	Receiving 324 Receiving 324	TRANE	1/17/2021	NJD426 NJD426	UH	UHSB0841T	F20A30118 / F20A30117 / I	1 1			Quarterly	DIH	324 3rd Excellent	TRANE
DIH-UH-2-1	Hydronic Unit Heater	160	TRANE	1/17/2021	NJD426 NJD426	UH	UHSBA361T	F20A30118 / F20A30117 / I				Quarterly	DIH	160 1st Excellent	TRANE
DIH-UH-2-1 DIH-UH-2-2	Hydronic Unit Heater Hydronic Unit Heater	324A	TRANE	1/17/2021		UH	UHSBA361T	F20A30119 / F20A30119 /				Quarterly	DIH		TRANE
DIN-UN-Z-Z	nyuronic onit neater	324A	INAINE	1/1//2021	1470470	UΠ	21130/13011	. 20030113/		-	1 - 1 - 1	Quarterry	DILL	JZ-PM JIU EXCEILENT	TRAINE

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DIH-VFD-AHU-1-RF-1&2		AHU-1 Return Fans	DANFOSS		19-587-045	VFD	VLT-FC-102P15KT4	887504Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-AHU-1-SF-1&2		AHU-1 Supply Fans	DANFOSS		19-1497-046	VFD	VLT-FC-102P30KT4	886904Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-AHU-2-RF-1&2		AHU-2 Return Fans	DANFOSS		19-587-045	VFD	VLT-FC-102P11KT4	887804Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-AHU-2-SF-1&2	Variable Frequency Drive	AHU-2 Supply Fans	DANFOSS		19-587-045	VFD	VLT-FC-102P18KT4	887304Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-AHU-3-RF-1&2		AHU-3 Return Fans	DANFOSS		19-587-045	VFD	VLT-FC-102P5K5T4	886804Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-AHU-3-SF-1&2	Variable Frequency Drive	AHU-3 Supply Fans	DANFOSS	5/12/2023	19-1497-046	VFD	VLT-FC-102P11KT4	887604Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-CWP-1	Variable Frequency Drive	Chilled Water Pump	DANFOSS	4/2/2023	19-587-045	VFD	VLT-FC-102P18KT4	885404Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
		CWP-1																		
DIH-VFD-CWP-2	Variable Frequency Drive	Chilled Water Pump	DANFOSS	4/2/2023	19-587-045	VFD	VLT-FC-102P18KT4	885504Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
		CWP-2																		
DIH-VFD-HWP-1	Variable Frequency Drive	Heating Water Pump	DANFOSS	4/2/2023	19-587-045	VFD	VLT-FC-102P15KT4	885704Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
		HWP-1																		
DIH-VFD-HWP-2	Variable Frequency Drive	Heating Water Pump	DANFOSS	4/2/2023	19-587-045	VFD	VLT-FC-102P15KT4	885604Y060	-	_	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
		HWP-2																		
DIH-VFD-KEF-1	Variable Frequency Drive	2nd Floor Hood	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P2K2T4	959504Y070	-	-	-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
DIH-VFD-KEF-2	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P1K1T4	088904Y090	-		-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
		KEF-2								_										
DIH-VFD-KEF-3	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P1K5T4	963104Y070	-		-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
		KEF-3								-										
DIH-VFD-KEF-4	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P3K7T4	962904Y070	-		-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
		KEF-4								-										
DIH-VFD-KEF-5	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P3K7T4	962604Y070	-		-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
		KEF-5								-			,							
DIH-VFD-KEF-6	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P3K7T4	963004Y070	-		-		Quarterly	DIH	224C	2nd	Excellent			MELINK
	and a second state	KEF-6		.,,_						-										
DIH-VFD-KEF-7	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P1K1T4	088804Y090	_			-	Quarterly	DIH	224C	2nd	Excellent		+	MELINK
DITI-VI D-KEL*/	variable Frequency brive	KEF-7	DAIN 033	,,21,2023	IVICEIIV	VID		0000041030	_	-	-		Quarterly	Dill	2240	Ziid	EXCENSIT		1	IVILLIAN
DIH-VFD-KEF-8	Variable Frequency Privo		DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P3K7T4	962804Y070					Quarterly	DIH	224C	2nd	Excellent		1	MELINK
טוח-ערט-גבר-8	Variable Frequency Drive	Kitchen Exhaust Fan KFF-8	DAINFUSS	//21/2023	IVIELINK	VFD	VLI-FC-102P3K/14	9020041070	-	-	-	-	quarterly	DIN	224C	Znd	excement			IVIELINK
				- / /												L .	- "			
DIH-VFD-KEF-9	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P1K1T4	088704Y090	-	-	-	-	Quarterly	DIH	224C	2nd	Excellent			MELINK
		KEF-9																		
DIH-VFD-KEF-10	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIH-VFD-KEF-11	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P3K7T4	962704Y070	-	_	-	-	Quarterly	DIH	324	2nd, 3rd	Excellent			MELINK
		KEF-11																		
DIH-VFD-KEF-12	Variable Frequency Drive	Kitchen Exhaust Fan	DANFOSS	7/21/2023	MELINK	VFD	VLT-FC-102P1K1T4	959404Y070	-		-	-	Quarterly	DIH	324	3rd	Excellent			MELINK
		KEF-12								_										
DIH-VFD-MAU-1-RF-1&2	Variable Frequency Drive	MAU-1 Return Fan	DANFOSS	5/12/2023	19-587-045	VFD	VLT-FC-102P11KT4	887704Y060	-	-	-	-	Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-MAU-1-SF-1&2	Variable Frequency Drive	MAU-2 Supply Fan	DANFOSS	5/12/2023	19-1497-046	VFD	VLT-FC-102P18KT4	887404Y060	-	-	-		Quarterly	DIH	134A	1st	Excellent			NORTHRICH
DIH-VFD-RTU-1-RF-1&2	Variable Frequency Drive	RTU-1 Return Fan	DANFOSS	7/15/2023	19-587-045	VFD	VLT-FC-102P30KT4	887004Y060	-	-	-	-	Quarterly	DIH	224C	2nd	Excellent			NORTHRICH
DIH-VFD-RTU-1-SF-1&2	Variable Frequency Drive	RTU-1 Supply Fan	DANFOSS		19-587-045	VFD	VLT-FC-102P45KT4	900904Y070	-	-	-		Quarterly	DIH	224C	2nd	Excellent			NORTHRICH
DIH-VFD-RTU-2-SF-1&2	Variable Frequency Drive	RTU-2 Supply Fan	DANFOSS	7/24/2023	20-233-202	VFD	VLT-FC-102P18KT4	223404Y110	-	-	-	-	Quarterly	DIH	324	3rd	Excellent			NORTHRICH
DIH-VFD-SF-1	Variable Frequency Drive	SF-1	DANFOSS		19-587-045	VFD	VLT-FC-102P1K5T2	880204Y060	-	-	-		Quarterly	DIH	134	1st	Excellent			NORTHRICH
DIH-CU-1	Air Cooled Condensing Unit	RTU-2	TRANE	9/18/2025		CU	RAUJC604B	C20B00878	-	-	-	-	Semi-annual		Roof	Roof	Excellent			TRANE
DC-1	Dust Collector	RM 150H	Neederman	3/10/2023	1655-120	DC	1010300045	C20000070					Semi-annual	_	150H	1st	Excellent			iVENT
DIH-ESP-1 (PE-1)	Oil Minder Elevator Sump Pump	Elevator Pit 100B	LIBERTY	0/7/2021	5016511847		ELV-280						Semi-annual		100B	1st	Excellent			FAMOUS
DIN-ESF-1 (FE-1)		Elevator Fit 100B	LIDENTT	6/1/2021	3010311047	Julip Fullip	ELV-200		-	-	-		3eiiii-aiiiiuai	DIF	1000	131	Excellent			FAIVIOU3
DUL 500 2 (05 4)	With Remote Alarm and Basin	FI	LIBERTY	0/7/2024	5045544047		F114 200							B	20011	21	F			
DIH-ESP-2 (PE-1)	Oil Minder Elevator Sump Pump	Elevator Pit 200H	LIBERTY	8/7/2021	5016511847	Sump Pump	ELV-280		-	-	-	-	Semi-annual	DIH	200H	2nd	Excellent			
	With Remote Alarm and Basin					_														
DIH-ESP-3 (PE-1)	Oil Minder Elevator Sump Pump	Elevator Pit 200J	LIBERTY	8/7/2021	5016511847	Sump Pump	ELV-280		-	-	-	-	Semi-annual	DIH	200L	2nd	Excellent			
	With Remote Alarm and Basin																			
DIH-DHW-1 (PE-2)	Duplex Domestic Water Heater	Building Domestic Hot	BRADFORD WHITE	4/20/2025	S016511847	Water Heater	EF-120T-500-3N	146780, 147044	-	_	-	-	Quarterly	DIH	134A	1st	Excellent			FAMOUS
		Water																		
DIH-DHW-2 (PE-2)	Duplex Domestic Water Heater	Building Domestic Hot	BRADFORD WHITE	4/20/2025	S016511847	Water Heater	EF-120T-500-3N		-		-	-	Quarterly	DIH	134A	1st	Excellent			
		Water								-										
DIH-EXT-3 (PE-3)	Domestic Hot Water Expansion	Building Domestic Hot	AMTROL	8/7/2021	S016511847	Expansion	ST-30VC	416689, 416688	-		-	-	Annual	DIH	134A	1st	Excellent			FAMOUS
	Tank	Water		1		Tank				-							1			
DIH-EXT-4 (PE-3)	Barrella Hall Walant Barrella	+			S016511847	Expansion		445500 445500					Annual	DIH	134A	4	Excellent			
` -/	Domestic Hot Water Expansion	Building Domestic Hot	AMTROL	8///2021	3010311847		S1-30VC	416689, 416688	-		-					1st			1	
	Domestic Hot Water Expansion Tank	Building Domestic Hot Water	AMTROL	8///2021	3010311847	Tank	ST-30VC	416689, 416688	-	-	-	-		5	25-171	1ST	Excellent			
DIH-RP-1 (PF-4)	Tank	Water				Tank		410089, 410088	-	-		-								FAMOUS
DIH-RP-1 (PE-4)	Tank Inline Recirculating Hot Water	Water Building Domestic Hot			5016511847	Tank Hot Water	113	416689, 416688	-	-	-	-	Semi-annual	DIH	134A	1st	Excellent			FAMOUS
` '	Tank Inline Recirculating Hot Water Pump	Water Building Domestic Hot Water	TACO	8/7/2021	S016511847	Tank Hot Water Pump	113		-	-	-	-	Semi-annual	DIH	134A	1st	Excellent			
DIH-RP-1 (PE-4)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing	Water Building Domestic Hot Water Building Domestic Hot	TACO	8/7/2021	S016511847	Tank Hot Water		4177989	-	-	-	-								FAMOUS FAMOUS
DIH-PE-5	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve	Water Building Domestic Hot Water	TACO ACORN	8/7/2021 8/7/2021	S016511847 S016511847	Tank Hot Water Pump Mixing Valve	113 MV17-4		-	-	-	-	Semi-annual	DIH	134A 134A	1st 1st	Excellent Excellent			FAMOUS
DIH-PE-5	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap	Water Building Domestic Hot Water Building Domestic Hot Water	TACO ACORN STRIEM	8/7/2021 8/7/2021 8/7/2021	S016511847 S016511847	Tank Hot Water Pump Mixing Valve Plaster Trap	113 MV17-4 USI-1180	4177989	-	-	-	-	Semi-annual Annual Monthly	DIH	134A 134A 150, 150L	1st 1st	Excellent Excellent Excellent			FAMOUS FAMOUS
DIH-PE-5	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed	TACO ACORN	8/7/2021 8/7/2021	S016511847 S016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air	113 MV17-4		-		-	-	Semi-annual	DIH	134A 134A	1st 1st	Excellent Excellent			FAMOUS
DIH-PE-5 DIH-PE-6 DIH-PE-7	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air	TACO ACORN STRIEM CHAMPION	8/7/2021 8/7/2021 8/7/2021 4/1/2021	S016511847 S016511847 S016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor	113 MV17-4 USI-1180 HCAS3-3	4177989	-		-	-	Semi-annual Annual Monthly Semi-annual	DIH DIH DIH	134A 134A 150, 150L 134A	1st	Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO
DIH-PE-5	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed	TACO ACORN STRIEM	8/7/2021 8/7/2021 8/7/2021	S016511847 S016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water	113 MV17-4 USI-1180	4177989	-	-	-	-	Semi-annual Annual Monthly	DIH	134A 134A 150, 150L	1st 1st	Excellent Excellent Excellent			FAMOUS FAMOUS
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet	TACO ACORN STRIEM CHAMPION CULLIGAN	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021	S016511847 S016511847 S016511847 407676	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment	113 MV17-4 USI-1180 HCAS3-3 HE-Twin	4177989 842916	-	-	-	-	Semi-annual Annual Monthly Semi-annual Quarterly	DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N	1st	Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN
DIH-PE-5 DIH-PE-6 DIH-PE-7	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster	Water Building Domestic Hot Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic	TACO ACORN STRIEM CHAMPION	8/7/2021 8/7/2021 8/7/2021 4/1/2021	S016511847 S016511847 S016511847 407676	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster	113 MV17-4 USI-1180 HCAS3-3	4177989	-	-	-	-	Semi-annual Annual Monthly Semi-annual	DIH DIH DIH	134A 134A 150, 150L 134A	1st	Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Watery	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump	MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex	4177989 842916 19083756	-	-	-	-	Semi-annual Annual Monthly Semi-annual Quarterly	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N	1st	Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Hotel	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021	S016511847 S016511847 S016511847 407676	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water	113 MV17-4 USI-1180 HCAS3-3 HE-Twin	4177989 842916	-	-		-	Semi-annual Annual Monthly Semi-annual Quarterly	DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N	1st	Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Watery	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump	MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex	4177989 842916 19083756			-	-	Semi-annual Annual Monthly Semi-annual Quarterly	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N	1st	Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-150H (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Hotel	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water	MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex	4177989 842916 19083756	-	-	-	-	Semi-annual Annual Monthly Semi-annual Quarterly	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N 160 134A	1st	Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Building Domestic Hot Water	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener	MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF	4177989 842916 19083756		-	-	-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N 160	1st	Excellent Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-150H (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512	4177989 842916 19083756		-	-	-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N 160 134A	1st	Excellent Excellent Excellent Excellent Excellent Excellent Excellent Excellent Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-150H (PE-11) DIH-OHR-150J (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Compressed Air Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener Hose Reel Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512 2251-512	4177989 842916 19083756			-	-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual Annual	DIH DIH DIH DIH DIH DIH DIH DIH	134A 134A 150, 150L 134A 150N 160 134A 150H 150J	1st	Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO SSECO SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-150H (PE-11) DIH-OHR-150J (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel Overhead Hose Reel Overhead Hose Reel	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Building Domestic Water Compressed Air Compressed Air Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK BALCRANK BALCRANK BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021 8/7/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener Hose Reel Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512 2251-512 2251-512	4177989 842916 19083756			-	-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual Annual	DIH	134A 134A 150, 150L 134A 150N 160 134A 150H 150J 146	1st	Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN CULLIGAN SSECO SSECO SSECO SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-1501 (PE-11) DIH-OHR-146-1 (PE-11) DIH-OHR-146-2 (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel Overhead Hose Reel Overhead Hose Reel Overhead Hose Reel	Water Building Domestic Hot Water Building Compessed Air Waterjet Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Compressed Air Compressed Air Compressed Air Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Hose Reel Hose Reel Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512 2251-512 2251-512 2251-512	4177989 842916 19083756				-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual Annual Annual Annual	DIH	134A 134A 150, 150L 134A 150N 160 134A 150H 150J 146	1st	Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO SSECO SSECO SSECO SSECO SSECO SSECO SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-1501 (PE-11) DIH-OHR-1501 (PE-11) DIH-OHR-150-1 (PE-11) DIH-OHR-150-1 (PE-11) DIH-OHR-150-1 (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel	Water Building Domestic Hot Water Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Waterjet Building Domestic Water Building Domestic Hot Water Compressed Air Compressed Air Compressed Air Compressed Air Compressed Air Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847 407676	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener Hose Reel Hose Reel Hose Reel Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512 2251-512 2251-512 2251-512 2251-512 2251-512	4177989 842916 19083756				-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual	DIH	134A 134A 150, 150L 134A 150N 160 134A 150H 150J 146 146 150L	1st	Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO
DIH-PE-5 DIH-PE-6 DIH-PE-7 DIH-PE-8 DIH-PE-9 DIH-PE-10 DIH-OHR-150H (PE-11) DIH-OHR-146-1 (PE-11) DIH-OHR-146-2 (PE-11) DIH-OHR-150-1 (PE-11)	Tank Inline Recirculating Hot Water Pump Domestic Hot Water Master Mixing Valve Plaster Trap Air Compressor Water Treatment System Domestic Water Duplex Booster Pump Domestic Hot Water Softener System Overhead Hose Reel Overhead Hose Reel Overhead Hose Reel Overhead Hose Reel	Water Building Domestic Hot Water Building Compessed Air Waterjet Building Domestic Hot Water Building Compressed Air Waterjet Building Domestic Water Compressed Air Compressed Air Compressed Air Compressed Air	TACO ACORN STRIEM CHAMPION CULLIGAN QUANTUMFLO CULLIGAN BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK BALCRANK	8/7/2021 8/7/2021 8/7/2021 4/1/2021 5/1/2021 4/20/2025 5/1/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021 8/7/2021	\$016511847 \$016511847 \$016511847 407676 \$016511847	Tank Hot Water Pump Mixing Valve Plaster Trap Air Compressor Water Treatment Booster Pump Water Softener Hose Reel Hose Reel Hose Reel	113 MV17-4 USI-1180 HCAS3-3 HE-Twin Prodigy-Duplex CTM-300-PF 2251-512 2251-512 2251-512 2251-512 2251-512	4177989 842916 19083756				-	Semi-annual Annual Monthly Semi-annual Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual	DIH	134A 134A 150, 150L 134A 150N 160 134A 150H 150H 150 146 146 150L	1st	Excellent			FAMOUS FAMOUS SSECO CULLIGAN FAMOUS CULLIGAN SSECO



^{**}It is important to define the space in which the above devices are installed, for example: controls, drives and other equipment that are typically installed in a traditional machine room are now being installed in the pits and top of hoistways and those areas are now defined as machine/control spaces which would require elevator recall devices. NFPA 72 - 21.3.12.1,2

2010 NFPA 13 & 72 Elevator Guidelines (smokes, heats, sprinklers, fire recall and supervisory panel)

The following are the guidelines that the State of Ohio Elevator Section will follow for sprinklers, heat and smoke detectors installed for Elevator recall and shunt trip operation. It is important to know how other codes interface with the elevator installation and inspectors should be aware of such connections. Even if the following requirements fall under other disciplines and jurisdictions, it is important to understand the big picture and how other codes related to a proper elevator installation.

Sprinkler Installed	Above 24" - pit area**	Below 24" - pit area **	Top of Hoistway **	Machine Room/Space	Elevator Lobby
Heat Detector Required	Violation	Violation NFPA	•	Required	NA
	NFPA 13 - 8.15, NFPA 72 - 21.3.3.	72 - 21.3.3, 10.14.3.2	NFPA 72 21.4.2	NFPA 72 21.4.2	
Smoke Detector Required	Violation	Violation	Required	Required	Required
Smoke Detector Required	NFPA 13 - 8.15, NFPA 72 - 21.3.3.	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 21.3.3	NFPA 72 21.3.3	NFPA 72 21.3.3,7
Sprinkler Not Installed	Above 24" - pit area**	Below 24" - pit area **	Top of Hoistway **	Machine Room/Space	Elevator Lobby
Smake Detector Required	Violation	Violation	Violation	Required	Required
Smoke Detector Required	Violation NFPA 72 - 21.3.3, 10.14.3.2	Violation NFPA 72 - 21.3.3, 10.14.3.2	Violation NFPA 72 21.3.6	Required NFPA 72 21.3.3	Required NFPA 72 21.3.3,7
Smoke Detector Required Polyurethane-Coated Steel Belt Suspension				•	•
Polyurethane-Coated Steel	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 - 21.3.3, 10.14.3.2	NFPA 72 21.3.6 Top of Hoistway **	NFPA 72 21.3.3	NFPA 72 21.3.3,7

It is important to **define the space in which the above devices are installed, for example: controls, drives and other equipment that are typically installed in a traditional machine room are now being installed in the pits and top of hoistways and those areas are now defined as machine/control spaces which would require elevator recall devices. NFPA 72 - 21.3.12.1,2

machinery space, elevator: a space inside or outside the hoistway, intended to be accessed with or without full bodily entry, that contains elevator mechanical equipment, and could also contain electrical equipment used directly in connection with the elevator. This space could also contain the electric driving machine or the hydraulic machine. ASME A17.1

Sprinklers located in elevator equipment rooms/spaces and hoistways are a requirement of the building code. The elevator code does not mandate the installation of these devices. ASME A17.1 Req. 2.8.3.3 states that sprinklers are permitted when required by the building code. The elevator code does set limits on what can be allowed within a hoistway or equipment room/space.

ASME A17.1 2.8.3 All **risers** are to be located outside the hoistway or room/space except where a machine room is located above the roofline of a building the riser is limited to the distance between the top floor and the room/space. Sprinklers located 24" or less above the pit floor, all wiring and electrical components located within 48" from the pit floor must be rated as **NEMA 4** and wiring must be suitable for wet locations. ASME A17.1 triggers the **shunt-trip** requirement when sprinklers are located in such areas related to the elevator. (Note: there are exceptions to the sprinkler requirements for Fire Service Access Elevators and Occupancy Evacuation Elevators: see IBC Sections 3007 and 3008 respectively.)

2013 edition of NFPA 13 (not adopted in OHIO), a new requirement was added to deal with combustible suspension means (i.e. elastomeric-coated steel belts). In such instances, sprinkler heads are required at the top and bottom of the hoistway. There is an exception; if the suspension means is tested and complies with UL 62 and UL 1581, sprinkler heads are not required.

2010 NFPA 13 & 72 Elevator Guidelines Quick Code reference

	NFPA 13 (SPRINKLERS)
8.15.5.1	Sidewall spray sprinklers required not more than 2 ft. above pit floor.
8.15.5.2	Pit sprinklers below 2 ft. are not required for non-combustible elevator hoistway without combustible hydraulic fluids.
8.15.5.3	Automatic sprinklers in machine room and hoistways shall be ordinary or intermediate temp rating.
8.15.5.4	Upright, pendent, or sidewall spray sprinklers shall be installed at top of hoistway.
8.15.5.5	Over head hoistway sprinklers are not required for noncombustible or limited-combustible and cab enclosure meets ASME A17.1 requirements.
0.45.5.6	Sprinklers shall be installed at the top and bottom of elevator hoistways where elevators utilize polyurethane-coated steel belts or other similar combustible
8.15.5.6	belt material.

NFPA 72 (SMOKES AND HEATS)	
10.3.1	Fire alarm system and supporting equipment designed and labeled for intended use.
10.4.1.1	Fire alarm system and supporting equipment designed, constructed and installed in conformance with the code.
10.4.2.1	Installation shall be supervised by persons who are qualified and experienced.
10.5.3.2	Fire alarm system shall be provided with at least two independent and reliable power supplies.
10.14.2.4	Equipment shall not be install in locations exceeding voltage, temp, and humidity of device.
10.14.3.2	Devices shall be selected and installed to minimize nuisance. Detectors shall not be installed in the pit area because they have been determined to be a nuisance
	alarm due to sweeping, dust and air movement. See also NFPA 72 17.7.1.9
10.17.1	Monitoring Integrity of Installation Conductors and Other Signaling Channels.
21.2.6	Wiring The installation of all wiring, cable, and equipment shall be in accordance with NFPA 70
21.3.2	In facilities without a building fire alarm system, these smoke detectors or other automatic fire detection shall be connected to a dedicated fire alarm system
	control unit that shall be designated as "elevator recall control and supervisory panel".
21.3.3	Only the elevator lobby, hoistways and machine room/space smoke detectors shall be used to recall elevators.
21.3.5	Lobby smoke detectors shall be with in 21 ft. of the center line of doors with in each bank.
21.3.6	Smoke detectors shall not be installed in unsprinklered hoistways unless for smoke relief equipment . (exception: Hoistway/pit = machine, control space)
21.3.7	If ambient conditions prohibit installation of smoke detectors, other fire detection shall be permitted ie: open areas, parking garages, and industrial
	applications. Per local AHJ. Pit and hoistway location of these detectors will likely need to be below the lowest level of recall in order to provide an adequate
	response of early detection of fire. Since there is no real ceiling in the pit to allow installation using the spacing provisions of Chapter 17, the provisions of
	17.7.3.1.3 and 17.4.10 should be considered, which allows detectors to be placed closer to the hazard in a position where the detector can intercept the smoke
	or heat. Also refer to A.21.3.14.2(3)
21.3.8	All fire fighters initiating devices shall annunciate at the building fire alarm control unit.
21.3.9	All fire fighters initiating devices shall cause separate and distinct visible annunciation.
21.3.12.1,2,	Designated, Alternate and Flashing Hat level recall requirements.
21.4.1	Heat detectors used for shunt shall have lower temp rating than sprinkler.
21.4.2	Heat detectors used for shunt shall be with in 24 " of sprinkler head.
21.4.3	Pressure or water flow switches in lieu of heat detectors
21.4.4,5	Control circuits to shutdown elevator power shall be monitored for presence of operating voltage. Loss of voltage to the control circuit for the disconnecting
	means shall cause a supervisory signal to be indicated at the control unit and required annunciators.
21.5	First Responders use elevators requirements (Fire Service Access Elevator OBC 3007)
21.6	Elevators for Occupant- control Evacuation requirements (OBC 3008)