

HOPKINTC FIRE STATION HVAC UPGRADE 73 MAIN STREET, HOPKINTON, MA 01748

BID DOCUMENTS 27 MARCH 2024 BID #24-05-002IFB

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		H-2 SECOND FLOOR HV	<u>FOR RE</u> H-1	FIRST FLOOR HVA
			H-2	SECOND FLOOR HV

DEX					GRLA PROJECT NUMBER:
		DATE	ISSUEI	D	CLIENT:
	DESIGN SET SEPTEMBER 15, 2020	CONSTRUCTION DOCUMENTS JANUARY 27, 2021	BID DOCUMENTS FEBRUARY 10, 2021	BID DOCUMENTS FEBRUARY 1, 2023	TOWN OF HOPKINTON 18 MAIN STREET HOPKINTON, MA 01748 PHONE 508.497.9700 www.hopkintonma.gov
	X	Х		Х	
LOCUS PLAN, GEN. LEGENDS, & NOTES FLOOR PLAN	X	X	X X	X X	GORMAN RICHARDSON LEW 239 SOUTH STREET HOPKINTON, MA 01748
ND FLOOR PLAN	v	v	X	X	www.grlarchitects.com
EMOLITION REFLECTED CEILING PLAN	X	X	X	X	
DEMOLITION REFLECTED CEILING PLAN	X	X	X	X	
EFLECTED CEILING PLAN	X	X	X	X	THE SCHRAFT CENTER, 529 MAIN STREET, 5
& REFLECTED CEILING PLAN & MISC DETAILS	X	X	X	X X	BOSTON, MASSACHUSETTS 02129-1107 PHONE 617.523.8227 FAX 617.523.8016 www.rwsullivan.com
PLAN AND GENERAL NOTES			X	X	STRUCTURAL ENGINEER:
					DeSIMONE CONSULTING ENG
GEND AND GENERAL NOTES MOLITION SECOND FLOOR PLAN	X	X	X X	X X	60 MAN MAR DRIVE, UNIT 2 PLAINVILLE, MASSACHUSETTS 02762 PHONE 508.384.0163
COND FLOOR PLAN	X	X	X X	X X	www.de-simone.com
					SPECIFICATIONS CONSULTANT
					PAUL DIBONA SPECIFICATIO
D AND GENERAL NOTES	X	Х	X	Х	Hopkinton, MA 01748-2508
JLES S SHEFT No. 1	X	X	X	X	PHONE 508.625.1098
S SHEET No. 2	X	X	X	X	
ITION FIRST FLOOR PLAN	X	X	X	X	
ITION SECOND FLOOR PIPING PLAN		^	X	X	
ITION ROOF PLAN	X	X	X	X	
D FLOOR DUCTWORK PLAN	X	X	X	X	
D FLOOR PIPING PLAN	Y	Y	X	X	
	X	X	X	X	
MOLITION FIRST FLOOR PLAN MOLITION SECOND FLOOR PLAN	X	X X	X X	X X	
MOLITION ROOF PLAN	Х	Х	Х	Х	
RST FLOOR PLAN COND FLOOR PLAN	X	X X	X X	X X	
OF PLAN	X	Х	Х	Х	
SER AND SCHEDULES	X	X	X	X	
ORIGINAL CONSTR. DRAWINGS - DATED 8/8/96					
VAC PLAN AND BASEMENT				X X	
					$ \mathbf{G} \mathbf{R} $
					Gorman Richardson Lev 239 South Street Hopkin www.grlarchitect
NEW OR REVISED ISSUE: NON REVISED ISSUE:	X 				

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GINEERS

DINS LLC

wis Architects inton, MA 01748 cts.com

			CODE A	NALYS	IS		
Project	Hopkinton Fire Station	HVAC Upgrade				GRAPHI	C SYMBOLS
	73 Main Street Hopkinton, MA 01748						
Applicable Building Code	780 CMR Massachuset Existing Building Code	ts State Building Code of Massachusetts (Inte	e (Ninth Edition) ernational Existing Building Code 2015 (IEI	BC 2015) with Massac	husetts Amendments)		COLUMN BUBBLE
Applicable Electrical Code	780 CMR 27.00 govern	s the electrical compor	nents, equipment and systems used in bui	ldings and structures of	covered by 780 CMR. Electrical components, equipment and systems shall be designed and		
Applicable Mechanical Code	Mechanical appliances, e	equipment and system	s shall be constructed, installed and maint	ained in accordance v	ith the International Mechanical Code and 248 CMR.		
Applicable Accessibility Codes and Regulations	Americans With Disabil	ities Act - 2010 ADA S	tandards for Accessible Design, "2010 Sta	andards." 521 CMR M	assachusetts Architectural Access Board (MAAB)	- A1.01	DETAIL
Applicable Energy Code	Buildings shall be desig apply to the IECC, and	ned and constructed in are also applicable, in	n accordance with the International Energy intent, to ANSI/ASHRAE/IESNA90.1.	Conservation Code-2	2018 ("IECC") as modified by 780 CMR 13.00. These amendments are intended to expressly		ΡΙΑΝ
Project Summary	The proposed construc	tion will include HVAC ork and including all as	upgrade at Hopkinton Fire Department He sociated work such as structural reinforce	eadquarters including i ment, electrical, acous	emoval and disposal of rooftop HVAC units and replacing with a new units on the roof tical ceiling work, painting, drywall, roof patching, and associated work as indicated on the		DETAIL
	Bidding and Contract D	ocuments. This work w	vill be publicly bid through MGL Chapter 1-	49. В	Offices	-1	
Use Classification (780 CMR	/ 2015 IBC Chapter 3)			R-1 S-2	Sleeping Quarters Storage	- 4 AX.X 2	INTERIOR FLEVATION
Construction Classification	n (780 CMR/ 2015 IBC CI	napter 6): V B		The building is a mix	of non-combustible and combustible construction due to wood framing in some areas.		
Building Characteristics					Building Area (gsf)	-	
			Basement		per 780 CMR 502.1 Definitions 220 sf		
			First Floor Second Floor		9,262 sf 7,156 sf		EXTERIOR ELEVATION
Number of Floors per Build	ling		Total		16,638 sf		
Occupancy Loads	Function of Space	Flo	oor Area Per Occupant	Area (sf)	Occupancy		
1004.1.2 Maximum Floor Area	Dasement	200 gross	(Parking vehicles)	5,856	30		ROOM NAME / ROOM NUMBEI
	First Floor	100 gross 300 sf (St	(Uffice Area)	1,483 1,923	15 7		PI PI //
	Second Floor	200 gross 100 gross	(Residential)	2,600 4,556	13 46		ELEVATION MARKER
Existing Building Code of L	Massachusetts (IFBC-20	15 with Massachused	Total tts Amendments)	16,638	112	∃	
104.2.2.1 Building Investigation and	For any proposed work CMR, as a condition of	regulated by 780 CMF the issuance of a perm	R 34.00 and subject to section 107 of 780 nit the building owner shall cause the	Evaluation of effects	of proposed work per 104.2.2.1 are included in this Code Summary below.		DOOR NUMBER
Evaluation (Mass. Amendments)	existing building (or por with the provisions of 7 sufficient detail to ascer	tion thereof) to be inve 80 CMR 34.00. The inv rtain the effects of the p	estigated and evaluated in accordance vestigation and evaluation shall be in proposed work on at least these				ΨΔΙΙ ΤΥΡ Ε
	systems: structural, me hazardous materials, ac and, where necessary,	ans of egress, fire prot ccessibility, and ventila the entire building or s	tection, energy conservation, lighting, tion for the space under consideration tructure and its foundation if impacted by				
	the proposed work. The proposed compliance a report form	e results of the investig Iternatives, shall be su	ation and evaluation, along with any bound official in written			Δ	NOTE / REVISI
301.1.2 Work area compliance	Repairs, alterations, ad	ditions, changes in occ	cupancy and relocated buildings (Chapters 5 through 13 of this code shall				
method.	be considered in compl	iance with the provision	area of all reconfigured spaces where				WINDOW TYPE
	work is occurring within the construction docum	the scope of a project ents. Work areas exclu	the the second s				
SECTION 503	503.1 Scope. Level 1 a	Iterations include the re	emoval and	Scope of work reflect	s criteria for Level 1 Alteration		LIMIT OF WOR
	equipment, or fixtures u or fixtures that serve the	ising new materials, ele e same purpose.	ements, equipment,				MATCH LINE
701.0.0.1	503.2 Application. Leve provisions of Chapter 7	l 1 alterations shall con	mply with the	-			
701.2 Conformance 702.1 Interior finishes.	An existing building of p becomes less safe than All newly installed interi	its existing condition.	shes shall comply with Chapter 8 of the	Complies	in not after the building such that the building becomes less safe than its existing condition.		CHANGE IN FLOOR FINISH
803.4	International Building C The interior finish of wa	ode. Ils and ceilings in exits	and corridors in any work area shall	The interior finish of d	corridor and exit walls and ceilings in work areas must meet the flame spread and smoke-	- '	
	Exception: Existing inte	rior finish materials that	at do not comply with the interior finish	flame-spread and sm E84.	oke-developed classifications are determined from IBC Table 803.11 and based on ASTM		
	an approved fire-retards to achieve the required	ant coating in accordar rating.	le shall be permitted to be treated with nce with the manufacturer's instructions	To be able to maintai development require	n some interior finish materials that do not comply with the flame-spread and smoke- nents of the code, the exception provides the option of available technology for the use of fir	э-	
803.4.1.Supplemental	Where the work area of	n any floor exceeds 50	percent of the floor area. Section 803.4	retardant treatment o accordance with the The work area does	f such surfaces as long as the code official approves the coating and it is applied in nanufacturer's instructions to achieve the required rating.	_ 1	
interior finish requirements	shall also apply to the in throughout the floor.	nterior finish in exits an	ad corridors serving the work area				
TABLE 803.11 INTERIOR WALL AND CEIL REQUIREMENTS BY OCCU	ING FINISH IPANCY	Interior exit stairways	Sprinklered Use Classification :		B (Business) Class B	<u>FIRE E</u>	XTINGUISHER SIGNAGE
		ramps and exit passa Corridors and enclos	ageways ure for exit access stairways and ramps		(Class C permitted in Business use)	PROVI TRIAN	DE FLAT LABEL OR IGULAR-SHAPED FLAG
		Rooms and enclosed	l spaces		Class C		GROUND: WHITE IR COLOR: RED IR HEIGHT: 2"
702.6 Materials and methods.	All new work shall com International Building C	ply with the materials a ode, International Energy	and methods requirements in the rgy Conservation Code, International	Complies		ORIEN	(AS SHOWN
	material standards, deta and continuity of any el	ail of installation and co ement, component, or	system in the building.				
(IBC) 1015.6 Mechanical equipment, systems and	Guards shall be provide within 10 feet (3048 mm	ed where various comp n) of a roof edge or ope	oonents that require service are located en side of a walking surface and such	Safety guard rails are drop-off.	included in the project scope where new roof-top equipment is within 10 feet of a roof edge	-	
devices.	edge or open side is loo grade below. The guard end of such component	cated more than 30 inc d shall extend not less is. The guard shall be o	thes (762 mm) above the floor, roof or than 30 inches (762 mm) beyond each constructed so as to prevent the				CABINET - IF SPEC'D ALL CABINETS TO
SECTION 703	passage of a sphere 21 Alterations shall be don	inches (533 mm) in di le in a manner that ma	iameter. intains the level of fire protection	The building is currer	tly protected throughout with an approved automatic fire suppression system.		HAVE "FIRE EXTINGUISHER" ON FACE OF
				any alteration. For exand replacing the exit	ample, removing sting ceiling and rearranging some fire sprinkler heads shall ultimately provide the same leve and protection that existed prior to the alterations being undertaken		
SECTION 704 MEANS OF EGRESS	Alterations shall be don for the means of eqress	e in a manner that ma s.	intains the level of protection provided	No change in egress.	שווע עוועפונאנאוו אימו סאוסוכע אוסי נט עופ מונפומנטווא טפוווע עוועפונאנאפוו.		
707.2 Addition or replacement of roofing or	Where addition or repla additional dead loads, s	cement of roofing or restructural components	eplacement of equipment results in supporting such reroofing or equipment	See Structural Drawin loads of new equipme	ngs for information regarding structural reinforcement of existing roof framing due to increase ant.		T MTD.
SECTION 708	708.1 Minimum require	avity load requirement	us or the international Building Code.	Complies		-	ABINE
ENERGY CONSERVATION	permitted without requirements of the Internet Residential Code. The	ang the entire building ernational Energy Cons alterations shall confor	or structure to comply with the energy servation Code or International m to the energy requirements of the				
521 CMP Massachusette	International Energy Co relate to new constructi	nservation Code or Int on only.	ternational Residential Code as they			-	FIRE EXT FIRE EXT MOTE #/
SECTION 3.0 Jurisdiction	All work performed on p	bublic buildings or facili reconstruction, alteration	ities (see 521 CMR 5.00: DEFINITIONS), ons, remodeling, additions, and changes	Includes municipal bu	ildings which allow access by the public.	┦┃ ╘╧	
Existing Buildings	of use shall conform to	521 CMR. med amounts to less th	han 30% of the full and fair cash value of	Applies Alteration work is lim	ted solely to electrical and mechanical systems and does not involve the alteration of any	-	
	the building and if the w required to comply with In addition, an accessib	vork costs \$100,000 or 521 CMR. le public entrance and	more, then the work being performed is an accessible toilet room, telephone,	elements or spaces r they must comply wit	equired to be accessible under 521 CMR. Where electrical outlets and controls are altered, h 521 CMR.	<u>NOTES:</u> 1) ALL M	OUNTING HEIGHTS SHA
	drinking fountain (if toile be provided in compliar	ets, telephones and dri nce with 521 CMR.	nking fountains are provided) shall also	The cost of the work	s estimated to be less than \$500,000		DM OF SIGNAGE FRAME
	Exception: Whether per types of alterations are exceeds \$500,000 or us	formed alone or in con not subject to 521 CM nless work is being por	nbination with each other, the following R 3.3.1, unless the cost of the work formed on the entrance or toilet. (When			3.) ALL D DEVIC	EVICES SHALL BE INSTA ES AND EQUIPMENT WI
	performing exempted w filed with the permit app	ork, a memo stating the plication or a separate	e exempted work and its costs must be building permit must be obtained.)			4.) ALL O FRAM	PERATING DEVICES SHA
	b. Alteration work v systems; to abatement	vhich is limited solely to	o electrical mechanical, or plumbing s; or retrofit of automatic sprinklers and			AND A WITH	INTERIOR ELEVATIONS
	aoes not involve the alt under 521 CMR. Where with 521 CMR.	eration of any element e electrical outlets and	s or spaces required to be accessible controls are altered, they must comply			5.) REVIE 6.) UNLES	SS NOTED OR DIRECTED
	c. Roof repair or re masonry repair work.	placement, window rep	pair or replacement, repointing and				PE OF FIRE / HAZARD
	•			•		- I	

		GENERAL L	EGEND			
IC SY	MBOLS	ABBREVIATIO	NS	MATERIA	L SYMBOLS	
	COLUMN BUBBLE	 ANGLE C CENTERLINE AT AT PL PLATE IRR. DIAMETER KVA + PLUS OR MINUS KW # 	INCH(ES) INSULATED INTERIOR IRRIGATION KILOVOLT KILOWATT		EARTH/COMPACT FILL	
	SECTION DETAIL	# NODER L. & AND L.P. A.B. AIR BARRIER, ANCHOR BOLT BOLT MB AC AIR CONDITIONING MAX ACT. ACOUSTICAL CEILING MECH. TILE MEZZ. METG. ADJ. ADJUSTABLE METG.	LONG LOW POINT MARKER BOARD MAXIMUM MECHANICAL MEZZANINE MANUFACTURING		CONCRETE	
	PLAN DETAIL	AFF. ABOVE FINISH FLOOR MIN ALUM. ALUMINUM MR A.P. ACCESS PANEL MTG. ARCH. ARCHITECT (URAL) MTL. ATTEN. ATTENUATION MUX. AUX. AUXILIARY N/A BD. BOARD NTS	MINIMUM MOISTURE RESISTANT MOUNTING METAL NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE		CONCRETE MASONRY UNIT	
	INTERIOR ELEVATION	B.O. BOTTOM OF BLKG. BLOCKING OC OD CPT CARPET OH CFM CUBIC FEET PER MINUTE C.T. CERAMIC TILE CL. CLOSET CLG. CEILING PL	ON CENTER OUTSIDE DIAMETER OVERHEAD, OPPOSITE HAND, OVERHANG, OVERHEAD DOOR PLATE		BRICK MASONRY (PLAN and SECTION)	
		CLR. CLEAR(ANCE) PLYWD CMU. CONCRETE MASONRY PNT. UNIT POLY COL. COLUMN PVC COMM. COMMUNICATION PT CONC. CONCRETE	. PLYWOOD PAINT, PAINTED POLYETHYLENE POLYVINYL CHLORIDE PORCELAIN TILE, PRESSURE TREATED		GROUT, CEMENTITOUS ELEMENTS, GYPSUM SOFFITS	
	EXTERIOR ELEVATION	CONT. CONTINUOUS C.P.R. C.P.R. STATION QT CW. CURTAIN WALL D.O. DOOR OPENING RCP DET. DETAIL R.D.	QUARRY TILE RETURN AIR REFLECTED CEILING PLAN ROOF DRAIN		GYPSUM BOARD (SECTION)	
	ROOM NAME / ROOM NUMBER	D.F. DRINKING FOUNTAIN REF. DIA. DIAMETER REINF. DIM. DIMENSION REQD. DN. DOWN REQS. DW DISHWASHER REV. DWG. DRAWING R.L.	KEFEKENCE REINFORCE(D), (ING) REQUIRED REQUIREMENTS REVISION(S),REVISED RAIN LEADER ROUGH OPENING			
	ELEVATION MARKER	EA EACH RM. EF EXHAUST FAN RWL. EL. ELEVATION (DATUM) ELEC. ELECATICAL S.A. ELEV. ELEVATOR (ELEVATION) S.C. EMER. EMERGENCY SCHFD	ROOM RAIN WATER LEADER SUPPLY AIR SOLID CORE SCHEDULE			
	DOOR NUMBER	E.P. ELECTRICAL PANEL SF EQ EQUAL SIM. EQUIP. EQUIPMENT SP ETR EXISTING TO REMAIN SPECS. EW EACH WAY SQ.IN. EXIST. EXISTING SS.	SQUARE FOOT(FEET) SIMILAR SECURITY PANEL SPECIFICATIONS SQUARE INCHE(S) STAINLESS STEEL		WOOD STUD	
	WALL TYPE	LAF. EAFANSION STD. EXT. EXTERIOR STL. STOR. F.A. FIRE ALARM STRUC FAP FIRE ALARM PANEL F.C. (GWB) FIRE CODE T&B F.C.O. FLOOR CLEAN OUT TFI	STAINDARD STEEL STORAGE T. STRUCTURAL TOP AND BOTTOM TELEPHONE		BATT INSULATION	
	NOTE / REVISION	F.D. FLOOR DRAIN, FIRE TEMP. DAMPER T&G FDC FIRE DEPARTMENT T.O. CONNECTION T.R. FE FIRE EXTINGUISHER TYP. FEC FIRE EXTINGUISHER	TEMPERED, TEMPORARY TONGUE & GROOVE TOP OF TRANSFORMER TYPICAL		RIGID INSULATION	
		F.O. FACE OF FIN. FINISH(ED) UNO FL. FLOOR F.O.M. FACE OF MASONRY FRMG. FRAMING VB	UNDERWINIERS LABORATORIES UNLESS NOTED OTHERWISE VAPOR BARRIER VINYL COMPOSITION THE		SPRAY FOAM INSULATION	
	MATCH LINE	GA. GAUGE VERT. GALV. GALVANIZED VIF GC GENERAL CONTRACTOR GFI GROUND FAULT W. GND GROUND WD GWB GYPSUM WALLBOARD WF	VERTICAL VERIFY IN FIELD WIDE WOOD WIDE FLANGE		STEEL	
	CHANGE IN FLOOR FINISH	H.C. HANDICAPPED WH. HORIZ. HORIZONTAL W.O. H.P. HORSEPOWER, HIGH WP POINT HGT. HEIGHT H W HOT WATER	WATER HEATER WELDED WIRE MESH WATER OIL SEPARATOR WEATHERPROOF		ALUMINUM / OTHER METALS	
		I THICAL MOUNTI	NG HEIGHIS)		
<u>EXTI</u> NG	UISHER SIGNAGE	€ of door o		EXIT SIGN:	FIN. CEILING	
IDE FLA IGULAF GROUN ER COLU ER HEIO	AT LABEL OR A-SHAPED FLAG D: WHITE DR: RED CHT: 2" N: VERTICAL (AS SHOWN)		NG PROVIDE WHERE CEILING EXCEEDS DIRECTIO AS SHOW	PENDANT MOUNTED HEIGHT 8-6" A.F.F DNAL ARROWS /N ON R.C.P. RM / HORN /		
FIRE EXTIN OUTL CABII SPECI CABII HAVE EXTIN ON F. CABII	AGUISHER INE OF NET - IF D ALL NETS TO "FIRE AGUISHER" ACE OF NET DOOR	OPERATING DEVICES (1.E. LIGHT SWITCH, FIRE ALARM PULL BOX, THERMOSTAT, OCCUPANT SENSOR, SHUT-OFF, ETC.) - REFER TO NOTE 4 CARD READER OR ACCESS CONTROL	6" SIGNAGE NOTE 7 WALL PH	نى بى C - REFER TO IONE		

WOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT AT EXIT SIGNS WHERE HEIGHTS SHALL BE MEASURED TO TOM OF SIGNAGE FRAME. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE AS SHOWN ABOVE WHEREVER POSSIBLE.

DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED. COORDINATE HEIGHTS AND LOCATIONS OF ALL CES AND EQUIPMENT WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. OPERATING DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AND CENTERLINES AS INDICATED ON THIS DETAIL AS MEASURED FROM THE OUTER EDGE OF ME AT DOORS, SIDLIGHTS, GLAZING, ETC. UNLESS NOTED OR DIRECTED OTHERWISE. THE PREFERRED LOCATION FOR FIRE ALARM PULL BOXES, CARD READERS, ACCESS CONTROL DEVICES SHALL BE THE LATCH SIDE OF DOOR. AT AREAS WITH MULTIPLE DEVICES OR LOCATION CONFLICTS, COORDINATE DEVICE LOCATION I INTERIOR ELEVATIONS, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS, AND THE ARCHITECT/ENGINEER OF RECORD.

W AND CONFIRM ALL FIRE EXTINGUISHER TYPES, SIZES, AND LOCATIONS WITH AUTHORITY HAVING JURISDICTION. SS NOTED OR DIRECTED OTHERWISE ELSEWHERE IN DRAWING SET, FIRE EXTINGUISHERS SHALL BE LOCATED AS FOLLOWS:

RECEPTACLE (DATA OR POWER)

∞

1'-6"

(NOT TO SCALE)

<u>PE OF FIRE / HAZARD</u>	EXTINGUISHER TYPE
TYPE 'A'	TYPE 2-A
E 'B' / LIGHT HAZARD	TYPE 10-B
PE 'B' / HIGH HAZARD	TYPE 40-B
TYPE 'C'	>
TYPE 'D'	CLASS 'D'
TYPE 'K'	CLASS 'K'

MAX. TRAVEL DISTANCE / SPACING 75' MAX. TRAVEL / ONE (1) EXTINGUISHER FOR EVERY 3000 SQ.FT. 50' MAX. TRAVEL 50' MAX. TRAVEL 30' MAX. TRAVEL TYPE AND SPACING IS BASED ON CLASS 'A' OR 'B' RATING WHERE ENERGIZED EQUIPMENT IS IN USE. NOT MORE THAN 75' FROM THE HAZARD 30' MAX. TRAVEL

7.) SIGNAGE FONTS SHALL BE 5/8" TO 2" HIGH. BRAILLE CELLS SHALL BE 0.059" IN DIAMETER. THE VERTICAL SEPARATION BETWEEN CELLS SHALL BE AT LEAST 0.395" AND THE HORIZONTAL SEPARATION SHALL BE AT LEAST 0.241".

> T1 TYPICAL MOUNTING HEIGHTS SCALE: 1/2" = 1'-0"

WAX

φ

6'-8" 8'-0"

REV.5 - JUNE 25, 2014



	PROJECT	
	CLIENT	18 MAIN STREET HOPKINTON, MA 01748 G R L A Gorman Richardson Lewis Architects 239 South Street Hopkinton, MA 01748 To the street
	FIRM	www.grlarchitects.com
	KEY PLAN	BID DOCUMENT
	REMARKS	
	T	No. Description Date
	ION COPYRIGH	ALL DRAWN OR WRITTEN INFORMATION OR GRAPHICS HEREIN IS NOT GUARANTEED AGAINST DEFECTS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERRORS AND OMISSIONS, DESIGN CALCULATIONS AND DIMENSIONS, DATA TRANSMISSION, OR DATA TRANSLATION.
LOCUSTILAN	SEAL / ORIENTA	Date: MARCH 27. 2024 Proj. No.: 2019023.01 Scale: AS NOTED
	DATA	Drawn By: JCB / EH Checked By: GO File Name: _G-01.dwg CODE ANALYSIS K GENERAL NOTES
	SHEET TITLE	G0.1



DEDUCT ALTERNATE No.2: PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE TOWN OF HOPKINTON. DEDUCT ALTERNATE No.2 TO INCLUDE THOSE COMPONENTS OF DEDUCT ALTERNATE No.2 NOTED ON THE HVAC AND ELECTRICAL DRAWING, AS WELL AS THE STRUCTURAL REINFORCEMENT WORK, ROOFING WORK AND INTERIOR CEILING WORK ASSOCIATED WITH THE WORK AT RTU-3.

	HOPKINTON FIRE STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB
PROJECT	73 MAIN STREET HOPKINTON, MA 01748
	TOWN OF HOPKINTON
CLIENT	18 MAIN STREET HOPKINTON, MA 01748
FIRM	G R A L A Gorman Richardson Lewis Architects 239 South Street Hopkinton, MA 01748 www.grlarchitects.com
KEY PLAN	
K	
REMARKS	
EVISIONS	
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SEAL / ORIENTATION	
DATA	Date:MARCH 27. 2024Proj. No.:2019023.01Scale:1/8"=1'-0"Drawn By:JCBChecked By:GOFile Name:AD1.3.dwgDEMOLITION ROOF PLAN
TITLE	
SHEET	AD1.3

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0 RCH Σ DOCUMENTS **RE-BID** RADE Ο ٩ FIRE HOPKIN 0 **HOPKINI** ОF TOWN 3.01 N 0



DEDUCT ALTERNATE No.2: PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE TOWN OF HOPKINTON. DEDUCT ALTERNATE No.2 TO INCLUDE THOSE COMPONENTS OF DEDUCT ALTERNATE No.2 NOTED ON THE HVAC AND ELECTRICAL DRAWING, AS WELL AS THE STRUCTURAL REINFORCEMENT WORK, ROOFING WORK AND INTERIOR CEILING WORK ASSOCIATED WITH THE WORK AT RTU-3.



0 N RCH Σ DOCUMENTS **RE-BID** RADE ()>Ī NOI AT S 1 HOPKINTON ОF TOWN 3.01 Ν





0 Ν RC DOCUMENTS **RE-BID** DE RA ()>Т Ζ 01 4 HOPKIN HOPKINTON ОF TOWN 0 M N 0









0 Ν RCH Σ 1 DOCUMENTS **RE-BID** RADE () >Ι NOI. A **S** HOPKINT 1 Ζ 0 HOPKINTC ОF TOWN .01 M N 0









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	SYSTEM INPUTS	Í	Í	Í	[[Í		[Í	/		[
1	MANUAL PULL STATION	•			•	•	•							
2	SMOKE DETECTORS - VERIFIED ALARM*	•			•	•	•							
3	HEAT DETECTORS	•			•		•							
4	SMOKE DETECTORS IN LOBBIES - VERIFIED ALARM*	•			•	•	•						•	
5	CODETECTORS			•						•				
6	NOT USED	•			•	•	•	•				•		
7	SPRINKLER WATERFLOW SWITCHES	•			•	•	•	•						
8	DRY SPRINKLER SYSTEM PRESSURE SWITCH	•			•	•	•	•						
9	SPRINKLER CONTROL VALVES		•		•	•			•					
10	DRY SPRINKLER SYSTEM HIGH/LOW PRESSURE SWITCH		•		•	•			•					
11	FIRE PUMP RUNNING		•		•	•			•					
12	FIRE PUMP POWER FAILURE/PHASE REVERSAL				•	•			•					
13	FIRE PUMP TROUBLE		•		•	•			•					
14	OPEN CIRCUIT			•	•	•				•				
15	SHORT CIRCUIT													
16	GROUND FAULT			•	•	•				•				
17	LOW SYSTEM BATTERY			•	•	•				•				

 $\bullet | \bullet | \bullet | \bullet$ $\bullet | \bullet | \bullet | \bullet | \bullet$ $\bullet | \bullet | \bullet | \bullet | \bullet$ $\bullet | \bullet | \bullet | \bullet | \bullet$ DEDUCT ALTERNATE NOTES $\bullet | \bullet | \bullet | \bullet | \bullet$ $\bullet | \bullet | \bullet | \bullet | \bullet$ **DEDUCT ALTERNATE No.1** a. **PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW** $\bullet | \bullet | \bullet | \bullet | \bullet$ HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF, HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE **DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. DEDUCT ALTERNATE No.2** a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

PROJECT GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH LABOR, MATERIALS, TOOLS AND OTHER EQUIPMENT REQUIRED TO INSTALL THE WORK SHOWN AND SPECIFIED. THE CONTRACTOR SHALL FURNISH AND INSTALL ITEMS NECESSARY FOR A COMPLET ELECTRICAL SYSTEM. MATERIALS SHALL BE NEW AND SHALL BEAR THE REGISTE UL MARK. WORK SHALL CONFORM WITH THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 70 (NEC), THE NATIONAL ELECTRICAL CODE (NEC), AND APPLICABLE FEDERAL, STATE AND LOCAL CODES. CONTRACTOR SHALL SECURE PERMITS AND PAY THE FEES REQUIRED TO CARRY OUT HIS WORK. THE CONTRACTOR SHALL FURNISH COPIES OF CERTIFICATES AND PERMITS TO THE ARCHITECT.
- 2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. EXACT LOCATIONS FOR OUTLE AND EQUIPMENT SHALL BE DETERMINED AT THE SITE, AS WORK PROGRESSES DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. FINAL WORK SHALL BE DOCUMENTED ON AS BUILT RECORD DRAWINGS.
- PIPING, CONDUITS AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET TO MAINTAIN THE CLEARANCES REQUIRED BY APPLICAE FEDERAL, STATE AND LOCAL CODES.
- CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION DEFLECTION TYPE FITTINGS, AS REQUIRED VERIFY EXISTING JOINTS FIELD MEASUREMENTS.
- RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
- 6. EQUIPMENT SHALL BE PROVIDED WITH DEDICATED WORK SPACE. THE HEIGHT O THE WORK SPACE SHALL EXTEND FROM THE FLOOR TO A HEIGHT OF 6'-6" OR TO HEIGHT OF THE EQUIPMENT, WHICHEVER IS GREATER. THE WIDTH OF THE WORK SPACE SHALL BE THE WIDTH OF THE ELECTRICAL EQUIPMENT OR 30", WHICHEVE GREATER. IN ALL CASES, WORK SPACE SHALL ALLOW AT LEAST A 90 DEGREE OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
- 7. ALL EQUIPMENT SHALL BE LOCATED IN DEDICATED SPACES AND PROTECTED FR DAMAGE. THE DEDICATED ELECTRICAL SPACE SHALL BE EQUAL TO THE WIDTH DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF (ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWE NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OF ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH SUCH SPACE.
- DEVICES SHALL BE MOUNTED IN ACCORDANCE WITH THE LATEST REQUIREMENT OF THE ACCESSIBILITY CODE.
- PULL STATIONS, HORN/STROBES, SMOKE DETECTORS, ETC INDICATE QUANTITY, EXACT LOCATIONS OF DEVICES SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH ARCHITECTURAL DRAWINGS.
- 10. THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS AND ABBREVIATIONS M NOT NECESSARILY APPEAR ON THE FLOOR PLANS OR DETAIL SHEET. ONLY THOS SYMBOLS INDICATED ON THE FLOORS PLANS ARE USED AND OTHERS SHOULD BI DISREGARDED.
- 11.MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS. T MOUNTING HEIGHT DETAIL SHALL BE USED AS A GUIDE IN THE ABSENCE OF THE ARCHITECTURAL DRAWINGS.
- 12. MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE FIRM WHO HOLDS THE EXISTING SYSTEM MAINTENANCE CONTRACT. T FIRM WHO HOLDS THE EXISTING SYSTEM MAINTENANCE CONTRACT SHALL MAKE ALL FINAL CONNECTIONS, AND PERFORM ALL PROGRAMMING AND TESTING. ALL COSTS ASSOCIATED WITH FINAL CONNECTIONS, PROGRAMMING AND TESTING SHALL BE INCLUDED UNDER THIS CONTRACT AND SHALL BE THE RESPONSIBILIT THE ELECTRICAL CONTRACTOR.
- 13. THE ELECTRICAL CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH DISABLING THE CONNECTIONS TO THE EXISTING MUNICIPAL LOOP DURING FINAL CONNECTIONS AND TESTING AND SHALL CARRY COSTS FOR RECONNECTION OF LOOP.
- 14. WHEN AVAILABLE FROM THE MANUFACTURER, ALL FIRE ALARM STROBES SHALL FIELD ADJUSTABLE AND THE POWER SUPPLY SHALL BE SIZED BASED ON ALL TH STROBES' HIGHEST SETTING.

FIRE ALARM SYSTEM LEGEND

- MANUAL PULL STATION F FIRE ALARM CONTROL PANEL FACP FATC FIRE ALARM TERMINAL CABINET FAA FIRE ALARM REMOTE ANNUNCIATOR S SMOKE DETECTOR SMOKE DETECTOR NOTES: "E" - INDICATES FOR ELEVATOR RECALL "D" - INDICATES DUCT MOUNTED SMOKE DETECTOR WITH HOUSING AND SAMPLING TUBE: WALL MOUNTED FIRE ALARM SPEAKER/STROBE COMBINATION UNIT, RATED 90db OUTPUT AND 75cd UNLESS OTHERWISE NOTED WALL MOUNTED FIRE ALARM STROBE ONLY DEVICE, UNIT RATED OUTPUT 75cd UNLESS OTHERWISE NOTED MM ADDRESSABLE MONITOR MODULE. CM ADDRESSABLE CONTROL MODULE.
- RL REMOTE ALARM INDICATOR
 - EXISTING CONDITIONS DESIGNATIO
 - X EXISTING DEVICE SHALL BE REMOVED INCLUDING ALL ASSOCIATED RACEWAYS AND CIRCUITRY BACK TO ITS SOURCE
 - XM EXISTING DEVICE SHALL REMAIN AND SHALL BE MAINTAINED
 - XR EXISTING DEVICE SHALL BE RELOCATED
 - XL NEW LOCATION OF EXISTING TO BE RELOCATED DEVICE. EXTEND AND MODIFY EXISTING WIRING AS REQUIRED TO NEW DEVICE LOCATION. MATCH EXISTING WIRING.
 - XN EXISTING DEVICE TO BE REMOVED AND REPLACED WITH NEW MAINTAIN EXISTING CIRCUITRY FOR CONNECTION OF NEW DEVICE

DEMOLITION 1.THE REFER TO THE ARCHITECTURAL SCOPE OF DEMOLITION. DISCONNECT	GENERAL NOTES DRAWINGS FOR THE FULL EXTENT OF THE AND MAKE SAFE ALL ELECTRICAL EQUIPM	IENT	HOPKINTON STATION H UPGRADE R Bid # 24-05	N FIRE VAC E-BID
DENTIFIED FOR REMOVAL ON THE AR PROTECTION PLANS. THE ELECTRICAL DEFINED BY THE ARCHITECTURAL DE VARIOUS REQUIREMENTS DEFINED B	CHITECTURAL, HVAC, PLUMBING AND FIRE L SCOPE MAY EXTEND BEYOND THE AREA MOLITION LIMITS TO FULLY COMPLY WITH ⁻ Y THESE NOTES.	THE		
THE ELECTRICAL DEMOLITION PLANS INTENDED TO SHOW ALL COMPONEN THE ELCTRICAL CONTRACTOR SHALL	S INDICATED GENERAL INTENT AND ARE NO ITS AND ITEMS TO BE REMOVED OR RETAIN L VISIT SITE PRIOR TO SUBMISSION OF THE	DT POR	73 MAIN STREET HOPK	INTON, MA 01748
OF WORK. DEVICES AND EQUIPMENT DESIGNATED TO BE REMOVED SHALL ELECTRICAL CONTRACTOR SHALL IM REPRESENTATIVE AND ARCHITECT C CONDITIONS ENCOUNTERED DURING	LOCATED ON WALLS AND/OR CEILINGS L BE DISCONNECTED AND MADE SAFE. THE IMEDIATELY NOTIFY THE OWNERS OF ANY UNANTICIPATED OR HIDDEN G DEMOLITION.		TOWN OF H	IOPKINTON
THE ELECTRICAL CONTRACTOR SHA SYSTEMS OR BUILDING COMPONENT WORK. DAMAGE SHALL INCLUDE, BU DISPOSAL OF ITEMS INTENDED TO R	LL BE RESPONSIBLE FOR THE REPAIR OF A TS DAMAGED DURING EXECUTION OF THE T NOT BE LIMITED TO, THE DESTRUCTION OF EMAIN OR BE SALVAGED.	DR	83 WOOD STREET HOPKINTON, MA 01748	3
THE ELECTRICAL CONTRACTOR SHA BRANCH CIRCUITS AND FEEDERS WI SCOPE, PRIOR TO DE-ENERGIZING A PANELBOARDS, LOAD CENTERS, MO SWITCHBOARDS IDENTIFIED FOR RE LABELLED TO ENSURE THAT NO ARE AFFECTED.	LL CIRCUIT TRACE AND LABEL ALL EXISTING THIN OR ASSOCIATED WITH THE DEMOLITIC ND DISCONNECTION. ALL CIRCUITS WITHIN TOR CONTROL CENTERS, AND MOVAL, SHALL BE TRACED AND FIELD A OUTSIDE THE DEMOLITION SCOPE LIMIT			
ANY AREA REQUIRING THE PERFO LECTRICAL CONTRACTOR SHALL CA LECTRICAL ITEMS IN PATH OF WOR S REQUIRED, IN ACCORDANCE WITH OMPLETION OF OTHER TRADES WC HE ELECTRICAL CONTRACTOR SHA	RMANCE OF ANY TRADES WORK, THE AREFULLY REMOVE AND STORE ANY OR AL K, REINSTALLING AND RECONNECTING SAM H THE PLANS AND/OR AS DIRECTED AFTER ORK IN THAT AREA. LL IDENTIFY ALL BRANCH CIRCUITS, FEEDE	L Æ	R. W. Sullivar MEP / FP Engineering. Code. The Schraft Cent	Engineering
AND SYSTEM COMPONENTS WHICH A DEMOLITION SCOPE. THERE SHALL B AREA OUTSIDE THE SCOPE LIMITS W OWNERS REPRESENTATIVE. EXISTIN CODE COMPLIANT CONDITION. THE ELECTRICAL CONTRACTOR SHA	ARE TO REMAIN WITHIN THE AREA OF SE NO INTERRUPTION OF THE SERVICE TO A ITHOUT WRITTEN APPROVAL FROM THE G EQUIPMENT TO REMAIN SHALL BE LEFT I LL TAKE INVENTORY OF ELECTRICAL ITEMS	ANY NA S	529 Main Street, Suit Boston, Massachusetts 02 Phone: (617) 523-82 Fax: (617) 523-80 www.rwsullivan.cc RWS JOB # 2001	2003 1129-1107 27 16 m 70.00
THAT ARE REMOVED AND PROVIDE A OF ITEMS TO BE RETAINED. ALL ITEM THE PROPERTY OF THE CONTRACTO AND DIPOSED OF LEGALLY.	A LIST TO THE OWNER FOR THEIR SELECTION IS REJECTED BY THE OWNER SHALL BECOM OR, AND SHALL BE REMOVED FROM THE SIT	DN ME E		
REMOVE ALL ELECTRICAL ITEMS AS I LIGHTING FIXTURES, DEVICE PLATES RESPONSIBLE FOR STRONG THE REI PLACE THE ELECTRICAL CONTRACTO AFTER COMPLETION OF PAINTING. A SHALL BE SUITABLY CLEANED OR RE ELECTRICAL CONTRACTOR	REQUIRED, INCLUDING BUT NOT LIMITED TO B, DEVICES, ETC THE CONTRACTOR SHALL MOVED DEVICES IN A SAFE AND SECURE DR SHALL REINSTALL THE SAME DEVICES NY ITEM NOT REMOVED AND PAINTED OVE EPLACED WITH A NEW ITEM BY THE	D, BE R		
THE ELECTRICAL CONTRACTOR SHAL CONDUCTORS AND RACEWAYS WITH THEIR POINT OF ORIGIN. ITEMS IDEN ABANDONED IN PLACE. RACEWAYS T FLOORS SHALL BE CUT FLUSH AT TH CIRCUIT BREAKERS ASSOCIATED WI AND RE-LABELLED AS "SPARE". NEW SHALL ALSO BE PROVIDED.	LL DE-ENERGIZE AND REMOVE ALL IIN THE AREA OF DEMOLITION SCOPE TO TIFIED FOR DEMOLITION SHALL NOT BE THAT ENTER MASONRY WALLS AND AND E SURFACE FOR PATCHING BY OTHERS. AL TH THE DEMOLITION SJALL BE DE-ENERGIZ TYPED UPDATED CIRCUIT DIRECTORIES	L ED		
THE ELECTRICAL CONTRACTOR SHA REMAIN THAT ARE AFFECTED BY THE COMPONENTS (WALLS, CELINGS, PAI TEMPORARILY SUPPORT ITEMS AND WHEN FINALIZED STRUCTURES ARE	LL TEMPORARILY SUPPORT ALL ITEMS TO E DEMOLITION OF BUILDING STRUCTURAL RTITIONS, ETC). CONTRACTOR SHALL SHALL PROVIDE PERMANENT SUPPORTS IN PLACE.			
ALL EXISTING ELECTRICAL EQUIPME STORED IN A SAFE MANNER UNTIL SI DAMAGE INCURRED TO EQUIPMENT CONTRACTOR.	NT THAT ARE TO BE RELOCATED SHALL BE UCH TIME AS TO BE REINSTALLED. ANY SHALL BE RECTIFIED BY THE ELECTRICAL	REMARK		
ALL REMOVED ITEMS SHALL BE LEGA REUSE. THE OWNER'S REPRESENTA ⁻ PRIOR TO PLACEMENT IN THE IDENT ELECTRICAL CONTRACTOR.	ALLY DISPOSED OF UNLESS IDENTIFIED FOI TIVE SHALL INSPECT ALL RETAINED ITEMS, IFIED STORAGE LOCATION BY THE	R		
THE WORK ON THIS PROJECT MAY B CONTRACTOR SHALL COORDINATE A SUFFICIENT TIME AND COSTS TO AC ¹ ADDITIONAL COSTS INCURRED DUE	E PERFORMED IN PHASES. THE ELECTRICA ND SCHEDULE HIS WORK AND ALLOW COMMODATE THE PHASING OF WORK. ANY TO LACK OF PROPER COORDINATION AND		<u> </u>	
COMMUNICATION BY THE ELECTRICA CONTRACTOR, OTHER TRADES OR O ASSUMED BY THE ELECTRICAL CONT OWNER. REFER TO THE ARCHITECTU INFORMATION.	AL CONTRACTOR, WITH THE GENERAL WNER'S REPRESENTATIVE, SHALL BE FRACTOR WITHOUT ANY COSTS TO THE JRAL PHASING PLANS FOR ADDITIONAL	REVISIONS	Image: No. REBID-3 DOCUI BID DOCUMENT No.	MENTS MAR 27, 2024 S FEB 01, 2023 Date
THE ENTIRE DEMOLITION AND CONS ALARM RACEWAYS SHALL NOT BE AL SHALL BE COORDINATED WITH AND / REPRESENTATIVE AND THE AUTHOR THE EXISTING SYSTEM SHALL NOT C	TRUCTION PERIOD. REUSE OF EXISTING FIF LOWED. ALL REQUIRED SYSTEM SHUTDOV APPROVED BY THE OWNER'S ITY HAVING JURISDICTION. DEMOLITION OF OMMENCE UNTIL THE NEW SYSTEM HAS BI	RE VNS EEN	C COPYRIGHT 2024 ALL DRAWN OR WRITTEN IN APPEARING HEREIN SHALL F GORMAN RICHARDSON AND AS SUCH IS NOT ANY FORM OR DISCLOS WITHOUT T HE EXPRESS	FORMATION OR GRAPHICS EMAIN THE PROPERTY OF LEWIS ARCHITECTS, INC. TO BE DUPLICATED IN ED OR OTHERWISE USED WRITTEN CONSENT OF
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NOT LIMITED TO, FIRE ALAM AND ASS PAGING, CCTV, ETC. CONNECTIONS \$	SOCIATED TELEPHONE, DATA, SECURITY, SHALL BE INCLUDED IN THIS CONTRACT.	AL / ORIENTATI	•	
FIRE ALARM SYSTE	EM WIRING METHODS		Date: MARCH 27, 20	24
REFER TO SPECIFICATION	NS FOR ADDITIONAL INFORMATION	IN	Proj. No.: 2019023.01 Scale: 1/8" = 1'-0"	
FIRE ALARM SYSTEM CIRCUIT WIRING	NTYPE NPLF AND FPL CONDUCTORS IN EMT MC CABLE	TOR	Drawn By: WMD Checked Bv: ARH	
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POWER PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING FA.0. FOR ADDITIONAL REQUIREMENTS.

2. REFER TO DRAWING FA0.0 FOR LEGEND AND GENERAL NOTES.

3. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS.

PLAN KEYED NOTES:

REINSTALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES, THAT WERE REMOVED DURING DEMOLITION, IN NEW CEILING.

DEDUCT ALTERNATE NOTES

DEDUCT ALTERNATE No.1 a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF . HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. 2. DEDUCT ALTERNATE No.2

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

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PLAN KEYED NOTES:

PROVIDE HEATED ENCLOSURE FOR DUCT SMOKE DETECTORS MOUNTED IN UNHEATED SPACE AT ROOF AS REQUIRED. INTENT IS TO MOUNT THE NEW DUCT SMOKE DETECTORS BELOW THE ROOF IN CEILING SPACE OF FLOOR BELOW. TYPICAL FOR ALL RTU UNITS.

DEDUCT ALTERNATE NOTES

DEDUCT ALTERNATE No.1

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF a HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. . DEDUCT ALTERNATE No.2

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS.

	HOPKINTON FIRE STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB
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	R. W. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schrafft Center 529 Main Street, Suite 203 Boston, Massachusetts 02129-1107 Phone: (617) 523-8027 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # 200170.00
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	FIRE ALARM DEMOLITION SECOND FLOOR PLAN

DEMOLITION PLAN NOTES:

- 1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING FA0.0 FOR ADDITIONAL REQUIREMENTS.
- WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

DEMOLITION PLAN KEYED NOTES:

CEILING IN THIS AREA TO BE DISTURBED. REMOVE ALL EXISTING FIRE ALARM DEVICES FROM CEILING AND TEMPORARILY SECURE ABOVE CEILING GRID. MAINTAIN ALL DEVICES, WIRING, AND CONNECTIONS FOR FUTURE REINSTALLATION IN NEW CEILING.

ABREV	DESCRIPTION
AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AP	ACCESS PANEL
APD	AIR PRESSURE DROP (INCHES OF WATER)
ATC	AUTOMATIC TEMPERATURE
AV	AIR VENT (AUTOMATIC)
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE

CO	CLEAN OUT
COND	CONDENSATE
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	CITY WATER
D	DRAIN
DBT	DRY BULB TEMP °F
DIA	DIAMETER
DOV	DRAIN OFF VALVE
DX	DIRECT EXPANSION
E	EXISTING (BEFORE SYMBOL)
EA	EXHAUST AIR
EHC	ELECTRIC HEATING COIL
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ETBR	EXISTING TO BE REMOVED
ETR	EXISTING TO REMAIN

<i>≻</i>	SUPPLY PIPING (TYP.)	$\sim \mathbb{A}^{1}$
<i></i> ∠→	RETURN PIPING (TYP.)	
ыон	BALL VALVE	\sim
HOD	BALL VALVE W/HOSE BIBB END, BRONZE CAP AND CHAIN	⊬∕₽
2	GLOBE VALVE	거 나
\sim	BALANCING VALVE	<u></u> <u> </u>

GENERAL SYMBOLS

DEDUCT ALTERNATE NOTES

ARROW

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- DEDUCT ALTERNATE NO 1 a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO1 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-2 SYSTEM & COMPONENTS TO REMAIN. DEDUCT ALTERNATE NO 2
- a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS TO REMAIN.

GENERAL NOTES

- THE HEATING, VENTILATING AND AIR CONDITIONING (HVAC) CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ALL PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE.
- THE HVAC CONTRACTOR SHALL BE FAMILIAR WITH ALL CONTRACT DOCUMENTS FOR ALL TRADES AND COORDINATE WITH OTHER CONTRACTORS.
- DRAWINGS ARE DIAGRAMMATIC ONLY, FINAL ROUTING OF DUCTWORK, PIPING AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC., SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- 4. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS.
- SUPPLY AND RETURN DUCT MAINS FROM AIR HANDLING EQUIPMENT SHALL BE INTERNALLY LINED AS PER SPECIFICATIONS A MINIMUM OF 15'-0" FROM THE UNIT UNLESS OTHERWISE NOTED. ALL DUCTWORK DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.
- VOLUME DAMPERS SHALL BE INSTALLED AT ALL BRANCHES, SPLITS, AND TAKE-OFFS.
- INSTALL SMOKE DETECTORS IN DUCT SYSTEMS IN ACCORDANCE WITH NFPA.
- THE HVAC CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.
- REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF DIFFUSERS, REGISTER, GRILLES, THERMOSTATS, ETC.
- 0. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE HVAC WORK COMPLETE AND READY FOR OPERATION.
- ALL HVAC WORK SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.

GENERAL ABBREVIATIONS

UKE KEDUCING		GATE VALVE
ONTAL CHECK		GATE VALVE W/ HOSE BIBB END, BRONZE CAP & CHAIN PRESSURE REDUCING VALVE
CONTROL	<u> </u>	DIRT LEG
		PITCH UP/DOWN IN DIRECTION OF ARROW
AINER W/ BLOW		PIPE GUIDE
	<u> </u>	PIPE ANCHOR

- 12. ALL HVAC EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 13. SHUTOFF VALVES SHALL BE INSTALLED IN THE SUPPLY AND RETURN PIPING TO ALL EQUIPMENT TO ALLOW FOR SERVICING. UNIONS OR FLANGES SHALL BE ARRANGED SUCH THAT EQUIPMENT CAN BE SERVICED WITHOUT CUTTING, AND WITH MINIMAL DISRUPTION OF PIPING SERVING THE EQUIPMENT.
- 14. THE HVAC CONTRACTOR SHALL FURNISH TO THE GENERAL CONTRACTOR ALL INFORMATION REQUIRED FOR SETTING OF WALL, ROOF AND PARTITION OPENINGS FOR HVAC WORK. THIS INFORMATION SHALL BE FURNISHED IN A TIMELY MANNER SUCH THAT CONSTRUCTION SCHEDULE IS NOT JEOPARDIZED.
- 15. THE HVAC CONTRACTOR SHALL INFORM AND COORDINATE WITH THE OWNER ALL NECESSARY INTERRUPTIONS TO EXISTING BUILDING SYSTEMS AND SERVICE THAT MAY AFFECT THE NORMAL OPERATION OF OCCUPIED PORTIONS OF THE BUILDING. THE OWNER SHALL BE INFORMED OF ANY INTERRUPTIONS AT LEAST TWO (2) WEEKS IN ADVANCE.
- 16. THE HVAC CONTRACTOR SHALL COORDINATE ANY PREMIUM WORK REQUIRED FOR THIS PROJECT WITH THE GENERAL CONTRACTOR.
- 17. THE HVAC CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PHASING REQUIREMENTS OF THE PROJECT.
- 18. THE AUTOMATIC TEMPERATURE CONTROL (ATC) CONTRACTOR SHALL COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECTURAL PLANS. THERMOSTATS SHALL BE INSTALLED 54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- 19. EXISTING FIBROUS DUCT LINERS WHICH ARE CUT DURING RENOVATION SHALL BE RE-SEALED SO THAT NO FIBROUS LINER MEDIA IS EXPOSED TO THE AIRSTREAM.
- ALL ROOF MOUNTED HVAC EQUIPMENT, DUCTWORK PIPING, CURBING AND SUPPORTS SHALL BE INSTALLED TO MEET THE MASS WIND CODE VELOCITY REQUIREMENTS AS PER 780 CMR-1604.11.
- 21. ALL EXTERIOR ELECTRICAL DISCONNECTS, VFD'S, ELECTRICAL PANELS & CONTROL PANELS SHALL BE NEMA-3R RATED FOR EXTERIOR SERVICE

DEMOLITION NOTES

PIPE RISE/DROP

PIPE RISE/DROP

PENETRATION

45° OR 90°

CAPPED PIPE

BRANCH CONNECTION

BOTTOM CONNECTION

 $\rightarrow \bigcirc \rightarrow$

 $\leftarrow =$

- 1. REFER TO THE MECHANICAL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL MECHANICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE MECHANICAL DEMOLITION PLANS. THE MECHANICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THESE WORK SCOPE LIMITS TO FULLY COMPLY WITH THE VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
- 2. THE HVAC DEMOLITION PLANS INDICATE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL COMPONENTS AND ITEMS TO BE REMOVED OR RETAINED. THE HVAC, ATC & TAB CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR BIDS TO BECOME FAMILIAR WITH THE ACTUAL WORKING CONDITIONS AND EXTENT OF WORK. EQUIPMENT & CONTROLS DESIGNATED TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE HVAC, ATC & TAB CONTRACTORS SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR, AND THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED OR HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED BY HIM AS A RESULT OF CONSTRUCTION DURING EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR BE SALVAGED.
- 4. THE MECHANICAL CONTRACTOR SHALL SYSTEM TRACE AND LABEL ALL EXISTING BRANCH SYSTEMS AND MAINS WITHIN OR ASSOCIATED WITH THE DEMOLITION SCOPE, PRIOR TO DEMOLITION AND DISCONNECTION. ALL SYSTEMS IDENTIFIED FOR REMOVAL, SHALL BE TRACED AND FIELD LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
- 5. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY OTHER TRADE'S WORK, THE MECHANICAL CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL MECHANICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADES WORK IN THAT AREA.
- 6. THE MECHANICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH SYSTEM COMPONENTS WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE 13. PROVIDE ALL THE NECESSARY EQUIPMENT, MANPOWER, LIMITS WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE

LEFT IN A CODE COMPLIANT CONDITION.

 $H \rightarrow$

-(\)

FLEX PIPE

CONNECTOR

AIR VENT (AUTOMATIC)

AIR VENT (MANUAL)

PRESSURE SWITCH

FLOW SWITCH

 \mathcal{H}

1 M

MECHANICAL ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER'S REPRESENTATIVE FOR HIS SELECTION OF ITEMS TO BE RETAINED. ALL ROOF-TOP ITEMS REJECTED BY THE REPRESENTATIVE SHALL BECOME THE PROPERTY OF THE MECHANICAL CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE MECHANICAL CONTRACTOR. DEMOLITION OF MECHANICAL ITEMS FROM THE DISPOSED OF BY THE GENERAL CONTRACTOR.

PRESS./ TEMP

COIL SYPHON

DAMPENER

FLANGES

TAP(PETE'S PLUG)

PRESSURE GAUGE

PRESSURE GAUGE W

PRESSURE GAUGE W/

- THE MECHANICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE CEILINGS, PARTITIONS, ETC). CONTRACTOR SHALL TEMPORARILY SUPPORT ITEMS AND SHALL PROVIDE PERMANENT SUPPORTS WHEN FINALIZED STRUCTURES ARE IN PLACE.
- ALL EXISTING MECHANICAL EQUIPMENT THAT IS TO BE RELOCATED SHALL BE STORED IN A SAFE MANNER UNTIL SUCH TIME AS TO BE REINSTALLED. ANY DAMAGE INCURRED TO EQUIPMENT SHALL BE RECTIFIED BY THE MECHANICAL CONTRACTOR.
- 10. ALL REMOVED ITEMS FROM THE ROOF-TOP SHALL BE LEGALLY DISPOSED OF BY THE MECHANICAL CONTRACTOR UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS, PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE MECHANICAL CONTRACTOR.
- . MECHANICAL CONTRACTOR WORK SCOPE SHALL INCLUDE AND NOT BE LIMITED TO THE FOLLOWING ADDITIONAL ITEMS WITH PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE.
- 11.1. AFTER INSTALLATION OF NEW WORK, PROVIDE TESTING
- 11.2 CUTTING, CAPPING & REMOVAL OF EXISTING DUCTWORK & INSULATION SYSTEMS 11.3. PROTECT ALL EXISTING EQUIPMENT FROM DAMAGE IN AND
- AROUND EACH INDIVIDUAL WORK SITE.
- 12. THE MECHANICAL CONTRACTOR WILL PROVIDE ALL NECESSARY EQUIPMENT TO PERFORM DEMOLITION AND NEW WORK SCOPE OF MECHANICAL EQUIPMENT AND COMPONENTS.
- TOOLS, MISCELLANEOUS SUPPORTS, MISCELLANEOUS EQUIPMENT & SUPPLIES TO PROPERLY EXECUTE THE SCOPE

AIR DISTRIBUTION DEVICE SCHEDULE

EM	SERVICE	ТҮРЕ	AIR PATTERN	FACE / NECK
A	SUPPLY	CEILING DIFFUSER	4-WAY	SEE PLAN
FS				

. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR MOUNTING TYPE. PROVIDE WITH WHITE POWDER COAT FINISH. ALL COLORS AND FINISHES TO BE APPROVED BY ARCHITECT. . DEVICES IN GRID CEILINGS SHALL BE LAY-IN TYPE UNLESS NOTED OTHERWISE. DEVICES IN SHEETROCK AND PLASTER CEILINGS SHALL BE SURFACED MOUNTED.

BI-POLAR IONIZATION GENERATOR

CFM	v	РН	HZ	Α	MANUFACTURER / MODEL NUMBER	REMARKS
1280	120	1	60	0.1	NU-CALGON / iWAVE-C	1-5 6
2400	120	1	60	0.1	NU-CALGON / iWAVE-C	1-5
2400	120	1	60	0.1	NU-CALGON / iWAVE-C	1-5
\sim	\sim				han here a second	
3230	120	1	60	0.1	NU-CALGON / iWAVE-C	1-5

			COIL DAT							
					AIF	R SIDE				
ITEM	SERVICE	(CFM)	SIZE (IN.)	MBH	EAT (°F)	LAT (°F)	MAX. AIR Δ PRESSURE IN. H ₂ O	FLUID		
HWC-1-1	RTU-1	350	12x12	20.1	45	98.0	0.16	30%PG		
HWC-1-2	RTU-1	380	12x12	21.8	45	98.1	0.13	30%PG		
HWC-1-3	RTU-1	540	16x13.5	31.5	45	98.8	0.17	30%PG		
HWC-2-1	RTU-2	1200	24x21	75.6	40	9801	0.16	30%PG		
HWC-2-2	RTU-2	1200	24x21	75.6	40	9801	0.16	30%PG		
HWC-3-1	RTU-3	2400	34x30	144.4	45	100.6	0.16	30%PG		
HWC-4-1	RTU-4	3230	52x18	182.7	45	97.2	0.16	30%PG		

1. REFER TO FLOOR PLANS FOR COIL ORIENTATION. PROVIDE ALL REQUIRED VALVING, PIPING, FITTINGS, SUPPORTS, FLANGE GASKETS & ATTACHMENTS 2. PROVIDE WITH NEW STAINLESS STEEL FLEXIBLE HOSES, ISOLATION VALVES, AUTOMATIC AIR VENT, DRAIN VALVE, AND PRESSURE INDEPENDENT BALANCING VALVE. 3. PROVIDE WITH NEW DDC 3-WAY CONTROL VALVE AND ATC CONTROLS.

SPLIT SYSTEM HEAT PUMP SCHEDULE

	II	NDOOR UN	IIT											OUTD	OOR UN
COOLING @ 95F	HEATING @ 5F	TOTAL		ELEC	TRICAL D				тас		REFRIGERANT	OFFD	ELECTRICAL DA		
AMBIENT MBH	AMBIENT MBH	CFM	v	ø	HZ	МСА	МОСР	MANUFACTURER / MODEL NUMBER	TAG	LUCATION	TYPE	SEEK	v	ø	HZ
36.0	38.0	730	Р	OWERED	BY OUTD	OOR UNIT		MITSUBISHI / PLA-A36EA7	HP-1	ROOF	R410A	17.0	208	1	60
12.0	13.6	398	Р	OWERED	BY OUTD	OOR UNIT		MITSUBISHI / MSZ-FH12NA	HP-2	ROOF	R410A	26.1	208	1	60

E								FAN	N SCH	EDULE	
MANUFACTURER / MODEL NUMBER	REMARKS (PROVIDE THE FOLLOWING)		ITEM	LOCATION	SERVICE	ТҮРЕ	CFM	E.S.P. (IN.)	FAN RPM	DRIVE	MOTOF (HP)
ABB/ACH550	1,2,3,4,5,6		EF-2	ROOF	APPARATUS	UPBLAST	6700	0.33	810	VFD	2
ABB / ACH550	1,2,3,4,5,6	}	EF-10	ROOF	TRAINING	UPBLAST	775	0.33	1536	ECM	1/6
ABB/ACH550	1,2,3,4,5,6	\sim	EF-12	ROOF	TOILETS	UPBLAST	420	0.33	1273	ECM	1/10
ABB7 ACH550	1,2,3,4,5,0	6									
ABB / ACH550	1,2,3,4,5,6		NOTES:				•				
STEM			1. PROVIDE 2. PROVIDE 3. PROVIDE	MATCHING 18" INSL WITH FACTORY MO ECM OR FACTORY	JLATED ROOF CURB. S UNTED AND WIRED DI MOUNTED AND WIRED	SUPPORT ASSEMBLY SCONNECT SWITCH. VARIABLE FREQUEN	SHALL BE	RATED FO	R APPLICAB	LE WIND SPE	ED RATI

. PROVIDE WITH SPEED DIAL FOR SYSTEM BALANCING.

5. RATED FOR OUTDOOR INSTALLATION INCLUDING MOTOR WEATHER GUARD. PROVIDE NEMA 3R DISCONNECT SWITCH. 6. FAN TO BE MONITORED AND CONTROLLED BY NEW BMS.

ROOFTOP AIR HANDLING UNIT - ELECTRIC HEAT, PACKAGED DX (RTU) SCHEDULE

PACKAGED DX COOLING COIL									HOT GAS REHEAT COIL			EL				
R	UNIT LAT DB/WB (°F)	NET TOTAL MBH	NET SENSIBLE MBH	# OF COMPRESSORS	COMPRESSOR TYPE	EER	IEER/SEER	COND FAN (FLA)	CAPACITY (MBH)	LAT DB (°F)	REHEAT MOISTURE REMOVAL (GPH)	KW	OUTPUT MBH	TEMP RISE (F°)	FILTER	
~	58.3 / 55.4	46.04	30.61	1	SINGLE STAGE	11.6	15.0	0.40	27.43	76.40	1.70	6	20.49	14.74	MERV-13	2
	58.9 / 57.4	90.97	69.5	2	DUAL STAGE	11.20	14.80	3.30	60.46	72.76	3.74	18	61.47	18.87	MERV-13	2
	58.8 / 57.1	73.88	55.79	2	DUAL STAGE	11.20	14.80	3.30	49.98	72.75	3.07	18	61.47	23.59	MERV-13	2
~	59.6 / 57.6	118.89	90.56	2	DUAL STAGE	11.20	14.80	2.80	61.49	70.04	4.40	18	61.47	14.15	MERV-13	2

3. PROVIDE RTU-1,2&3 WITH INSULATED ADAPTER CURBS. PROVIDE RTU-4 WITH NEW 21" TALL CAMBRIDGEPORT ROOF CURB, W/ ACOUSTIC LINING, SPRING VIBRATION ISOLATION WITH 2.0 INCH MINIMUM STATIC DEFLECTION SPRINGS, ACCESS PANELS, INSULATION, FLASHING & COUNTERFLASHING SEALED WATERTIGHT

A 24 × 36-V FORMAT SHEET TEMPLATE | REV.2020.02.15

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H-	101

1. PROVIDE NEW INSULATION AT ETR SUPPLY AND RETURN DUCTWORK CONNECTED TO NEW RTU'S.

(2) COORDINATE FINAL LOCATION OF THE HVAC BAS CONTROL SYSTEM STATION WITH ARCHITECT & HFD

ADDITIONAL SCOPE:

1 PROVIDE REFRIGERANT PIPING UP TO ROOF. SIZING AND ROUTE SHALL BE PER MANUFACTURE REQUIREMENTS, FIELD ROUTE. COORDINATE WITH ARCHITECT FOR PIPE CHASE

3. ALL EXISTING TO REMAIN DUCTWORK TO BE PROTECTED BY FILTERS DURING CONSTRUCTION.

NOT ALL EXISTING HVAC SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR SHALL RE-BALANCE ALL EXISTING AIR DISTRIBUTION SYSTEMS CONNECTED TO NEW RTU'S AND NEW EXHAUST FANS. SEE EXISTING

STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB 73 MAIN STREET HOPKINTON, MA 01748 TOWN OF HOPKINTON 83 WOOD STREET HOPKINTON, MA 01748 XWS R. W. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schrafft Center 529 Main Street, Suite 203 Boston, Massachusetts 02129-1107 Phone: (617) 523-8227 Fax: (617) 523-8016 2024 www.rwsullivan.com RWS JOB # 200170.00 MARCH 27, SET **RE-BID** I RADE REBID-3 DOCUMENTS MAR 27, 2024 REBID-2 DOCUMENTS FEB 1, 2023 ADDENDUM No.3 MAR 5, 2021 🛛 _____ No. Description Date C COPYRIGHT 2024 ALL DRAWN OR WRITTEN INFORMATION OR GRAPHIC APPEARING HEREIN SHALL REMAIN THE PROPERTY O GORMAN RICHARDSON LEWIS ARCHITECTS, INC FIRE ALL DRAWN OR WRITTEN INFORMATION OR GRAPHICS HEREIN IS NOT GUARANTEED AGAINST DEFECTS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERRORS AND OMISSIONS, DESIGN CALCULATIONS AND DIMENSIONS, DATA TRANSMISSION, OR DATA TRANSLATION. **NIXOH** Ζ MARCH 27, 2024 0 Date: Proj. No.: 2019023.01 **PKIN** Scale: 1/8" = 1'-0" Drawn By: NVZ 0 Checked By: ACA File Name: 11 HVAC Ζ TOW FIRST FLOOR PLAN 2019023.01

HOPKINTON FIRE

HVAC ADDITIONAL SCOPE:

- SUPPLY AND RETURN DUCTWORK THROUGHOUT SECOND FLOOR.

DEDUCT ALTERNATE NOTES

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO1 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-2 SYSTEM & COMPONENTS

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS

NOT ALL EXISTING HVAC SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR SHALL RE-BALANCE ALL EXISTING AIR DISTRIBUTION SYSTEMS CONNECTED TO NEW RTU'S AND NEW EXHAUST FANS. SEE EXISTING HVAC PLANS H-1, H-2 DATED 08/08/96 FOR CFM'S FOR BALANCING. REUSE ALL EXISTING S/A & R/A

EXISTING HVAC SYSTEMS SHOWN FOR REFERENCE ONLY - ACTUAL LOCATIONS AND SIZES SHALL BE FIELD

NEW SUPPLY AND RETURN DUCT FROM RTU SHALL BE INTERNALLY LINED AS PER SPECIFICATIONS A MINIMUM OF 15'-0" FROM THE UNIT UNLESS OTHERWISE NOTED. ALL DUCTWORK DIMENSIONS INDICATED

1. CONTRACTOR TO INSPECT ETR DUCT SYSTEMS & PROVIDE NEW INSULATION AT LEAK DAMAGED ETR

2. CLEAN ALL ETR SUPPLY, & RETURN DUCTWORK SYSTEM IF WARRANTED BY INSPECTION.

HOPKINTON FIRE STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB 73 MAIN STREET HOPKINTON, MA 01748 TOWN OF HOPKINTON 83 WOOD STREET HOPKINTON, MA 01748 XWS R. W. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schrafft Center 529 Main Street, Suite 203 Boston, Massachusetts 02129-1107 Phone: (617) 523-8227 4 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # 200170.00 REBID-3 DOCUMENTS MAR 27, 2024 🐴 REBID-2 DOCUMENTS 🛛 FEB 1, 2023 🔼 ADDENDUM No.3 MAR 5, 2021 **O** No. Description Date C COPYRIGHT 2024 ALL DRAWN OR WRITTEN INFORMATION OR GRAPHIC APPEARING HEREIN SHALL REMAIN THE PROPERTY O GORMAN RICHARDSON LEWIS ARCHITECTS, INC L DRAWN OR WRITTEN INFORMATION REIN IS NOT GUARANTEED AGAINST R GRAPHICS FECTS THAT RRORS AND DIMENSIONS, ATION. INCLUDE, BUT ARE NOT LIMITED TO, ERRORS / OMISSIONS, DESIGN CALCULATIONS AND DIMENSIO DATA TRANSMISSION, OR DATA TRANSLATION. MARCH 27, 2024 Date: Proj. No.: 2019023.01 1/8" = 1'-0" Scale: Drawn By: NVZ Checked By: ACA File Name: HVAC SECOND FLOOR

DUCTWORK PLAN

Ň 20 27 MARCH SET **RE-BID** RADE ш FIR PKIN ЮH 0 Ζ Y Δ 0 ш TOWN 0 M H-102 គ្ន

- FOR GPM'S FOR EXISTING COILS TO REMAIN.
- BE FIELD VERIFIED.
- 3. ALL EXISTING TO REMAIN PIPING TO BE INSPECTED FOR PIPE LEAKS, CORROSION AND PIPE INSULATION TEARS. REPAIR & REFURBISH IF NECESSARY. PROVIDE ALL REQUIRED TIE-IN INTERCONNECTIONS BETWEEN NEW PIPING AND EXISTING PIPING. AFTER RECONNECTING NEW PIPING RE-INSULATE PIPING AS PER SPECIFICATIONS. PROVIDE SHUTOFF BALL VALVES FOR ALL NEW BRANCH PIPING SYSTEMS.

KEYED NOTES:

- 1 NEW HOT WATER COIL. PROVIDE NEW DDC 3-WAY CONTROL VALVE, ISOLATION VALVES, BALANCING VALVE, VENT, DRAIN, AND P/T TAPS.
- 2 PROVIDE NEW DDC THERMOSTAT CONTROLS, CONTROL PANELS AND CONTROL SEQUENCING.
- (3) PROVIDE REFRIGERANT PIPING UP TO ROOF. ALL FITTINGS, VALVES, INSTRUMENTATION, PIPE SIZING AND PIPE ROUTING SHALL BE AS PER MANUFACTURE'S RECOMMENDATIONS AND REQUIREMENTS.
- 4 PROVIDE HVAC ATC CONTROL PANELS AS REQUIRED FOR A COMPLETE SYSTEM (120V BY DIV26)

	HOPKINTON FIRE STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB
PROJECT	73 MAIN STREET HOPKINTON, MA 01748
	TOWN OF HOPKINTON
CLIENT	83 WOOD STREET HOPKINTON, MA 01748
FIRM	R. W. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schrafft Center 529 Main Street, Suite 203 Boston, Massachusetts (2129-1107 Phone: (617) 523-8027 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # 200170.00
KEY PLAN	
REMARKS	
REVISIONS	Image: System state sta
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SEAL / ORIENTATION	
DATA	Date: MARCH 27, 2024 Proj. No.: 2019023.01 Scale: 1/8" = 1'-0" Drawn By: NVZ Checked By: ACA File Name: Image: Note:
	HVAC SECOND FLOOR PIPING PLAN
SHEET	H-102P

NOT ALL EXISTING HVAC SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR SHALL BALANCE ALL NEW &

EXISTING PIPING SYSTEMS CONNECTED TO NEW RHC'S. SEE EXISTING HVAC PLANS H-1, H-2 DATED 08/08/96

EXISTING HVAC PIPING SYSTEMS SHOWN FOR REFERENCE ONLY - ACTUAL LOCATIONS AND SIZES SHALL

DEDUCT

ALTERNATE No.2

HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS TO REMAIN.

27 ARCH Σ SET **RE-BID** DE RA FIR PKIN **HO** 0 Y Δ 0 ш TOWN 0 M

- 2. EXISTING HVAC SYSTEMS SHOWN FOR REFERENCE ONLY ACTUAL LOCATIONS AND SIZES SHALL BE FIELD VERIFIED.
- DEMOLITION KEYED NOTES:
- EXISTING INDOOR FAN COIL TO BE REMOVED. REMOVE PIPING, WIRING, CONTROLS, SUPPORTS, AND ACCESSORIES.

HVAC SYSTEMS NOT-IN-CONTRACT ARE SHOWN ON PLANS. SEE EXISTING HVAC PLANS H-1, H-2 DATED 08/08/96 FOR REFERENCE.

3. ALL EXISTING TO REMAIN DUCTWORK TO BE PROTECTED BY FILTERS DURING CONSTRUCTION.

- 08/08/96 FOR REFERENCE.
- VERIFIED.
- DEMOLITION KEYED NOTES:
- REMAIN.
- (2) EXISTING SUPPLY DIFFUSER TO BE REMOVED.

DEDUCT ALTERNATE NOTES

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO1 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-2 SYSTEM & COMPONENTS

DEDUCT ALTERNATE NO 2

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS

HVAC SYSTEMS NOT-IN-CONTRACT ARE SHOWN ON PLANS. SEE EXISTING HVAC PLANS H-1, H-2 DATED

2. EXISTING HVAC SYSTEMS SHOWN FOR REFERENCE ONLY - ACTUAL LOCATIONS AND SIZES SHALL BE FIELD

3. ALL EXISTING TO REMAIN DUCTWORK TO BE PROTECTED BY FILTERS DURING CONSTRUCTION.

(D1) EXISTING EXHAUST FAN TO BE REMOVED. REMOVE ROOF CURB, WIRING, CONTROLS, SUPPORTS, AND ACCESSORIES. DISCONNECT FROM EXHAUST DUCTWORK. EXHAUST DISTRIBUTION DUCTWORK SHALL

(D3) EXISTING HOT WATER COIL TO BE REMOVED. DISCONNECT FROM EXISTING HWS/R PIPING MAINS. REMOVE ASSOCIATED VALVES, CONTROL VALVE, THERMOSTAT, WIRING, SUPPORTS, AND ACCESSORIES.

- 08/08/96 FOR REFERENCE.
- VERIFIED.
- DEMOLITION KEYED NOTES:

DEDUCT ALTERNATE NOTES

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO1 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-2 SYSTEM & COMPONENTS

a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS

HVAC SYSTEMS NOT-IN-CONTRACT ARE SHOWN ON PLANS. SEE EXISTING HVAC PLANS H-1, H-2 DATED

2. EXISTING HVAC SYSTEMS SHOWN FOR REFERENCE ONLY - ACTUAL LOCATIONS AND SIZES SHALL BE FIELD

3. ALL EXISTING TO REMAIN DUCTWORK TO BE PROTECTED BY FILTERS DURING CONSTRUCTION.

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1. HVAC SYSTEMS NOT-IN-CONTRACT ARE SHOWN ON PLANS. SEE EXISTING HVAC PLANS H-2 DATED 08/08/96

3. ALL EXISTING TO REMAIN DUCTWORK TO BE PROTECTED BY FILTERS DURING CONSTRUCTION.

EXISTING RTU'S TO BE REMOVED IN THEIR ENTIRETY. REMOVE ELECTRIC POWER WIRING, ATC CONTROLS, DUCT SUPPORTS, AND ALL APPURTENANCES & ACCESSORIES. RETAIN ALL SUPPLY & RETURN DUCTWORK. ABOVE ROOF LEVEL. ALL REFRIGERANT SHALL BE RECLAIMED AND STORED FOR THE TOWN OF HOPKINTON. ALL ELECTRICAL POWER WIRING AND LOW VOLTAGE CONTROL WIRING SHALL BE MADE SAFE, ALL THE WAY

EXISTING SPLIT SYSTEM ACCU TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DX PIPING, CURBS & SUPPORTS, POWER WIRING, ATC CONTROLS, AND ACCESSORIES. ALL DX REFRIGERANT SHALL BE RECLAIMED AND STORED FOR THE TOWN OF HOPKINTON. ALL ELECTRICAL POWER WIRING AND LOW VOLTAGE CONTROL WIRING SHALL BE MADE SAFE, ALL THE WAY BACK TO THE CIRCUIT PANELS AND TAGS REMOVED

EXISTING EXHAUST FANS TO BE REMOVED IN THEIR ENTIRETY. REMOVE ROOF CURBS, WIRING, CONTROLS,

EXISTING HOT WATER HEATING COIL TO BE REMOVED. DISCONNECT FROM EXISTING HWS/R PIPING MAINS.

EXISTING RELIEF VENTS TO BE REMOVED IN THEIR ENTIRETY. REMOVE ROOF CURBS, DAMPERS, SUPPORTS,

EXISTING S.S. BOILER EXHAUST FLUE STACK & ROOF CURB SHALL REMAIN. REMOVE ALL ANGLE IRON SUPPORT BRACING, O-RING BANDS & ATTACHMENTS & REPLACE WITH NEW LIKE-KIND HOT DIPPED ZINC COATED

REMOVE DUCT BRANCHES, VD'S, ROOF DUCT CURBS, DUCT & PIPE SUPPORTS, DUCT & PIPE INSULATION SYSTEMS, SMOKE DAMPERS AND SMOKE DETECTORS, REMOVE ALL ASSOCIATED ATC CONTROLS, HW & CD

DEDUCT ALTERNATE NOTES a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO1 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-2 SYSTEM & COMPONENTS a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE NO2 TO INCLUDE DEMOLITION, NEW DUCTWORK, RHC'S, PIPING, VALVES SUPPORTS, VFD'S, ROOF ADAPTER CURBS, BIPOLAR GENERATOR, HWS/R & CD PIPING SYSTEMS, INSULATION SYSTEMS, POWER, ATC CONTROLS, TAB & COMMISSIONING. EXISTING RTU-3 SYSTEM & COMPONENTS

		POWER DEVICES LEGEND	POWER DISTR
	₽ ² ₽ ₽ ₽	POVVER DEVICES LEGEND DUPLEX RECEPTACLE - "2" INDICATES CIRCUIT NUMBER QUAD RECEPTACLE GFCI RECEPTACLE SPECIAL PURPOSE RECEPTACLE SPECIAL PURPOSE RECEPTACLE MEDIEX RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTOR "C" - INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SOURCE "E" - INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SOURCE "E" - INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SOURCE "E" - INDICATES DEVICE FED FROM AN EMERGENCY POWER SOURCE "EWC" - INDICATES RECEPTACLE FOR ELECTRIC WATER COOLER "R" - INDICATES RECEPTACLE FOR ELECTRIC WATER COOLER "R" - INDICATES RECEPTACLE WITH INTEGRAL TRANSIENT COLTAGE SURGE SUPPRESSER "T" - INDICATES DEVICE FOR TV COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT. JUNCTION BOX, 4 11/16" SQUARE (UNLESS OTHERWISE NOTED) JUNCTION BOX FOR OFFICE POWER	LPN32A 120/208V,3Ø, PANEL DESIG HPN32 2777/480V, 3Ø ZZZZ 2777/480V, 3Ø PANEL DESIG PANEL DESIG STP MANUAL MOP PILOT LIGHT DISCONNECT 30AS DISCONNECT 30AS DISCONNECT 75KVA DRY TYPE TF T5 TRANSFORM SCHEDULE' F HOME RUN, 3 20A-1P CIRCU "2" INDICATE LR5A-2,4 HOME RUN, 3 MND NEUTRA NDICATED IN LR5A-2,4,6 30A-3P + SCHEDULE F SCHEDULE F REPRESENT NUMBERS IN
		JUNCTION BOX FOR OFFICE TEL/DATA LIGHTING CONTROL LEGEND DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR (LINE VOLTAGE CONTROL).	►EWC FLEXIBLE PC FLEXIBLE PC "EWC" - INE "DW" - INE "GD" - INE "FURN" - INE "ATC" - INE CON
	SP	WIRING DEVICE LEGEND CEILING MOUNTED SPEAKER	"PS" - INE PR
	 -·	LINE TYPE LEGEND -*-*-* EXISTING DEVICE, EQUIPMENT OR WIRING TO BE REMOVED XM EXISTING DEVICE, EQUIPMENT OR WIRING TO REMAIN NEW DEVICE, EQUIPMENT OR WIRING	MECHANICAL EC "EF" INDICATES "1" INDICATES E "1" INDICATES E <u>NOTES:</u> 1. REFER TO MECHANICA ACTUAL EQUIPMENT N
2 1. 2.	DEDUCT DEDUCT PROVIN HVAC R BE INS HOPKIN DEDUCT NOVIN HVAC R BE INS HOPKIN DEMOLI THE EXI	UCT ALTERNATE BID PRICE TO REMOVE THE NEW ALTERNATE No.1 DE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW TU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO TALLED LATER AS DETERMINED BY THE "TOWN OF TON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE TION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE IG RTU-2 SYSTEM & APPURTENANCES TO REMAIN. ALTERNATE No.2 DE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW TU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO TALLED LATER AS DETERMINED BY THE "TOWN OF TON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE TION, NEW ELECTRICAL POWER WIRING AND CONTROLS. STING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.	EXISTING DEVINACE X EXISTING DEVINACE XM EXISTING DEVINACE XM EXISTING DEVINACE XR EXISTING DEVINACE XN EXISTING DEVINACE XN EXISTING DEVINACE
~~			DRAWING N DETAIL IE "1" INDIC. "E-004" IN 2 DRAWING DRAWING

STRIBUTION EQUIPMENT LEGEND

- ,3Ø,4W SURFACE MOUNTED PANEL, "UDP251" INDICATES ESIGNATION
- 7, 3Ø,4W SURFACE MOUNTED PANEL, "UDP251" INDICATES ESIGNATION
- MOTOR STARTER W/THERMAL OVERLOAD PROTECTION & GHT
- IECT SWITCH (FUSED), "AS" INDICATES AMPERE SWITCH "AF" INDICATES AMPERE FUSE RATING.
- E TRANSFORMER, "T5" INDICATES SIZE AS PER ORMER SCHEDULE. REFER TO 'DRY TYPE TRANSFORMER LE' FOR FEEDER AND CIRCUIT BREAKER SIZES
- JN, 3/4"C. WITH 2#12 AND 1#12 GND. CONNECTED TO A IRCUIT BREAKER. "LR5A" REPRESENTS PANEL NAME AND ATES CIRCUIT NUMBER IN PANEL. WHEN MULTIPLE S ARE SHOWN, HASH MARKS INDICATE NUMBER OF PHASE JTRAL CONDUCTORS (GROUND CONDUCTOR IS NOT
- ED IN HASH MARKS). JN, 3/4"C. WITH 4#10 AND 1#10 GND. CONNECTED TO A IRCUIT BREAKER-REFER TO THE BRANCH CIRCUIT LE FOR CONDUCTOR SIZES AND QUANTITIES. "LR5A" ENTS PANEL NAME AND "2,4,6" INDICATES CIRCUIT
- N BOX, 4 11/16" SQUARE (UNLESS OTHERWISE NOTED)
- E POWER CONNECTION NOTES:
- INDICATES CONNECTION TO ELECTRIC WATER COOLER
- INDICATES CONNECTION TO DISHWASHER - INDICATES CONNECTION TO GARBAGE DISPOSAL
- INDICATES CONNECTION TO FURNITURE - INDICATES CONNECTION TO AUTOMATIC TEMPERATURE
- CONTROL SYSTEM - INDICATES CONNECTION TO CEILING MOUNTED PROJECTION SCREEN

L EQUIPMENT IDENTIFIER LEGEND

AL EQUIPMENT TAG NTES EQUIPMENT TYPE (EXHAUST FAN) ES EQUIPMENT NUMBER

NICAL AND PLUMBING PLANS AND SCHEDULES FOR NT NAME AND ASSOCIATED DESCRIPTION.

CONDITIONS DESIGNATIONS

DEVICE SHALL BE REMOVED INCLUDING ALL ASSOCIATED S AND CIRCUITRY BACK TO ITS SOURCE

DEVICE SHALL REMAIN AND SHALL BE MAINTAINED

DEVICE SHALL BE RELOCATED

ATION OF EXISTING TO BE RELOCATED DEVICE

DEVICE TO BE REMOVED AND REPLACED WITH NEW MAINTAIN CIRCUITRY FOR CONNECTION OF NEW DEVICE

NOTES AND DESIGNATIONS

AIL IDENTIFIER

IDICATES DETAIL NUMBER 4" INDICATES SHEET NUMBER

WING REVISION MARKER

WING REVISION CLOUD

PROJECT GENERAL NOTES

- 1. THE CONTRACTOR SHALL FURNISH LABOR, MATERIALS, TOOLS AND OTHER EQUIPMENT REQUIRED TO INSTALL THE WORK SHOWN AND SPECIFIED. THE CONTRACTOR SHALL FURNISH AND INSTALL ITEMS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. MATERIALS SHALL BE NEW AND SHALL BEAR THE REGISTERED UL MARK. WORK SHALL CONFORM WITH THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 70 (NEC), THE NATIONAL ELECTRICAL CODE (NEC), AND APPLICABLE FEDERAL, STATE AND LOCAL CODES. CONTRACTOR SHALL SECURE PERMITS AND PAY THE FEES REQUIRED TO CARRY OUT HIS WORK. THE CONTRACTOR SHALL FURNISH COPIES OF CERTIFICATES AND PERMITS TO THE ARCHITECT.
- 2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. EXACT LOCATIONS FOR OUTLETS AND EQUIPMENT SHALL BE DETERMINED AT THE SITE, AS WORK PROGRESSES DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE. FINAL WORK SHALL BE DOCUMENTED ON AS BUILT RECORD DRAWINGS.
- 8. PIPING, CONDUITS AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET TO MAINTAIN THE CLEARANCES REQUIRED BY APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION DEFLECTION TYPE FITTINGS, AS REQUIRED VERIFY EXISTING JOINTS BY FIELD MEASUREMENTS.
- 5. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
- 6. WIRING DEVICES SHALL BE MOUNTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE ARCHITECTURAL BARRIERS BOARD.
- 7. EXIT SIGNS AND EMERGENCY BATTERY UNITS AND LIGHTING FIXTURES DESIGNATED AS NIGHT LIGHTS SHALL BE UNSWITCHED.
- 8. ALL BRANCH CIRCUITS, (LIGHTING AND POWER) SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. COMMON OR SHARING OF NEUTRALS WILL NOT BE ALLOWED. NO MORE THAN (3) CIRCUITS (SIX CURRENT CARRYING CONDUCTORS) SHALL BE RUN IN A SINGLE CONDUIT.
- RECEPTACLES, SWITCHES, LIGHTING FIXTURES, SMOKE DETECTORS, ETC INDICATE QUANTITY, EXACT LOCATIONS OF DEVICES SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH ARCHITECTURAL DRAWINGS.
- 10. THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE FLOOR PLANS OR DETAIL SHEET. ONLY THOSE SYMBOLS INDICATED ON THE FLOORS PLANS ARE USED AND OTHERS SHOULD BE DISREGARDED.
- 1.MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS. THE MOUNTING HEIGHT DETAIL SHALL BE USED AS A GUIDE IN THE ABSENCE OF THE ARCHITECTURAL DRAWINGS.
- 12. CONTRACTOR SHALL VERIFY ALL DOORS SWINGS BEFORE INSTALLING SWITCH BOXES.
- 13. FOR EXACT LOCATION OF LIGHTING FIXTURES, SEE REFLECTED CEILING PLAN DRAWINGS. FOR MOUNTING HEIGHT OF UNDERCABINET LIGHTING FIXTURES AND OTHER TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
- 14. ELECTRICAL CONTRACTOR IS TO COORDINATE THE EXACT LOCATION OF LIGHTING FIXTURES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES.
- 15. CURRENT CARRYING MATERIAL USED SHALL BE COPPER, INCLUDING PANELBOARD BUS MATERIALS AND TRANSFORMER WINDINGS.
- 16. FURNISH GROUNDING/ BONDING BUSHINGS ONTO ALL CONDUIT ENTERING/ LEAVING BOXES.
- 17. ALL GROUND CONDUCTORS SHALL BE GREEN, ISOLATED GROUND CONDUCTORS SHALL BE GREEN/ YELLOW STRIPPED, AND NEUTRAL CONDUCTORS SHALL BE WHITE.
- 18. MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE FIRM WHO HOLDS THE EXISTING SYSTEM MAINTENANCE CONTRACT. THE FIRM WHO HOLDS THE EXISTING SYSTEM MAINTENANCE CONTRACT SHALL MAKE ALL FINAL CONNECTIONS, AND PERFORM ALL PROGRAMMING AND TESTING. ALL COSTS ASSOCIATED WITH FINAL CONNECTIONS, PROGRAMMING AND TESTING SHALL BE INCLUDED UNDER THIS CONTRACT AND SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 19. WHEN AVAILABLE FROM THE MANUFACTURER, ALL FIRE ALARM STROBES SHALL BE FIELD ADJUSTABLE AND THE POWER SUPPLY SHALL BE SIZED BASED ON ALL THE STROBES' HIGHEST SETTING.

ELECTRICAL DRAWING LIST

DESCRIPTION

ELECTRICAL LEGEND AND GENERAL NOTES ELECTRICAL 1ST FLOOR POWER DEMO PLAN ELECTRICAL 2ND FLOOR POWER DEMO PLAN ELECTRICAL ROOF POWER DEMO PLAN ELECTRICAL 1ST FLOOR POWER PLAN ELECTRICAL 2ND FLOOR POWER PLAN ELECTRICAL ROOF POWER PLAN ELECTRICAL RISER AND SCHEDULES

DEMOLITIC

- 1.THE REFER TO THE ARCHITECT SCOPE OF DEMOLITION. DISCON EQUIPMENT IDENTIFIED FOR RE AND FIRE PROTECTION PLANS. AREA DEFINED BY THE ARCHITE WITH THE VARIOUS REQUIREME
- . THE ELECTRICAL DEMOLITION INTENDED TO SHOW ALL COMP RETAINED. THE ELCTRICAL CO SUBMISSION OF THEIR BID TO CONDITIONS AND EXTENT OF V WALLS AND/OR CEILINGS DESI DISCONNECTED AND MADE SA IMMEDIATELY NOTIFY THE OWN UNANTICIPATED OR HIDDEN CO
- 3. THE ELECTRICAL CONTRACTOR SYSTEMS OR BUILDING COMPO WORK. DAMAGE SHALL INCLUE DISPOSAL OF ITEMS INTENDED
- 4. THE ELECTRICAL CONTRACTOR BRANCH CIRCUITS AND FEEDE SCOPE, PRIOR TO DE-ENERGIZ PANELBOARDS, LOAD CENTER SWITCHBOARDS IDENTIFIED FO LABELLED TO ENSURE THAT NO AFFECTED.
- IN ANY AREA REQUIRING THE P ELECTRICAL CONTRACTOR SHA ELECTRICAL ITEMS IN PATH OF AS REQUIRED, IN ACCORDANCE COMPLETION OF OTHER TRADE
 THE ELECTRICAL CONTRACTOF FEEDERS AND SYSTEM COMPC
- OF DEMOLITION SCOPE. THER ANY AREA OUTSIDE THE SCOP OWNERS REPRESENTATIVE. E. A CODE COMPLIANT CONDITIO 7. THE ELECTRICAL CONTRACTO
- THAT ARE REMOVED AND PRO OF ITEMS TO BE RETAINED. AL THE PROPERTY OF THE CONTE AND DIPOSED OF LEGALLY.
- 8. SPECIFIED OR SHOWN TO BE F REMOVE ALL ELECTRICAL ITEM LIGHTING FIXTURES, DEVICE P RESPONSIBLE FOR STRONG TH PLACE THE ELECTRICAL CONT AFTER COMPLETION OF PAINT SHALL BE SUITABLY CLEANED ELECTRICAL CONTRACTOR.
- 9. THE ELECTRICAL CONTRACTO CONDUCTORS AND RACEWAYS THEIR POINT OF ORIGIN. ITEMS ABANDONED IN PLACE. RACEV FLOORS SHALL BE CUT FLUSH CIRCUIT BREAKERS ASSOCIAT DE-ENERGIZED AND RE-LABEL DIRECTORIES SHALL ALSO BE
- 10. THE ELECTRICAL CONTRACTO REMAIN THAT ARE AFFECTED E COMPONENTS (WALLS, CELING TEMPORARILY SUPPORT ITEMS WHEN FINALIZED STRUCTURES
- 11. ALL EXISTING ELECTRICAL EQU STORED IN A SAFE MANNER UN DAMAGE INCURRED TO EQUIP CONTRACTOR.
- 12. ALL REMOVED ITEMS SHALL B REUSE. THE OWNER'S REPRES PRIOR TO PLACEMENT IN THE ELECTRICAL CONTRACTOR.
- 13. THE WORK ON THIS PROJECT CONTRACTOR SHALL COORDIN SUFFICIENT TIME AND COSTS ADDITIONAL COSTS INCURREE COMMUNICATION BY THE ELEC CONTRACTOR, OTHER TRADES ASSUMED BY THE ELECTRICAL OWNER. REFER TO THE ARCHI INFORMATION.
- 14. THE EXISTING FIRE ALARM SY THE ENTIRE DEMOLITION AND ALARM RACEWAYS SHALL NOT SHUTDOWNS SHALL BE COOR REPRESENTATIVE AND THE AU THE EXISTING SYSTEM SHALL BEEN COMPLETELY INSTALLED HAVING JURISDICTION.
- 15. THE ELECTRICAL CONTRACTO DISABLING THE CONNECTIONS CONSTRUCTION AS REQUIRED SHALL CARRY ALL COSTS FOR BE A REQUIREMENT FOR MULT BASED ON THE AUTHORITY HA

DRAWING No E0-0 ED1-1 ED1-2 ED1-3 E1-1

E1-2

E1-3

E3-0

		HOPKINTON FIRE STATION HVAC UPGRADE RE-BID Bid # 24-05-002IFB
TION GENERAL NOTES	DJECT	73 MAIN STREET HOPKINTON, MA 01748
ITECTURAL DRAWINGS FOR THE FULL EXTENT OF THE ISCONNECT AND MAKE SAFE ALL ELECTRICAL OR REMOVAL ON THE ARCHITECTURAL, HVAC, PLUMBING ANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE CHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY REMENTS DEFINED BY THESE NOTES.	PRO	TOWN OF HOPKINTON
TION PLANS INDICATED GENERAL INTENT AND ARE NOT COMPONENTS AND ITEMS TO BE REMOVED OR AL CONTRACTOR SHALL VISIT SITE PRIOR TO D TO BECOME FAMILIAR WITH THE ACTUAL WORKING TOF WORK. DEVICES AND EQUIPMENT LOCATED ON DESIGNATED TO BE REMOVED SHALL BE DE SAFE. THE ELECTRICAL CONTRACTOR SHALL E OWNERS REPRESENTATIVE AND ARCHITECT OF ANY EN CONDITIONS ENCOUNTERED DURING DEMOLITION.	LIENT	83 WOOD STREET HOPKINTON, MA 01748
ACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL OMPONENTS DAMAGED DURING EXECUTION OF THE ICLUDE, BUT NOT BE LIMITED TO, THE DESTRUCTION OR NDED TO REMAIN OR BE SALVAGED		
ACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING EEDERS WITHIN OR ASSOCIATED WITH THE DEMOLITION ERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN NTERS, MOTOR CONTROL CENTERS, AND ED FOR REMOVAL, SHALL BE TRACED AND FIELD IAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS		R. W. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schraft Center 529 Main Street, Suite 203
THE PERFORMANCE OF ANY TRADES WORK, THE OR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL TH OF WORK, REINSTALLING AND RECONNECTING SAME DANCE WITH THE PLANS AND/OR AS DIRECTED AFTER TRADES WORK IN THAT AREA.	FIRM	Boston, Massachusetts (/2129-1107 Phone: (617) 523-8227 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # 200170.00
ACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, OMPONENTS WHICH ARE TO REMAIN WITHIN THE AREA THERE SHALL BE NO INTERRUPTION OF THE SERVICE TO SCOPE LIMITS WITHOUT WRITTEN APPROVAL FROM THE VE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN DITION.		
ACTOR SHALL TAKE INVENTORY OF ELECTRICAL ITEMS PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION D. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE Y.	N	
BE PAINTED, THE ELECTRICAL CONTRACTOR SHALL ITEMS AS REQUIRED, INCLUDING BUT NOT LIMITED TO, ICE PLATES, DEVICES, ETC THE CONTRACTOR SHALL BE NG THE REMOVED DEVICES IN A SAFE AND SECURE CONTRACTOR SHALL REINSTALL THE SAME DEVICES PAINTING. ANY ITEM NOT REMOVED AND PAINTED OVER INED OR REPLACED WITH A NEW ITEM BY THE IR.	Key Pla	
ACTOR SHALL DE-ENERGIZE AND REMOVE ALL WAYS WITHIN THE AREA OF DEMOLITION SCOPE TO ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ACEWAYS THAT ENTER MASONRY WALLS AND AND LUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL DCIATED WITH THE DEMOLITION SJALL BE ABELLED AS "SPARE". NEW TYPED UPDATED CIRCUIT O BE PROVIDED. ACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO TED BY THE DEMOLITION OF BUILDING STRUCTURAL	REMARKS	
ITEMS AND SHALL PROVIDE PERMANENT SUPPORTS TURES ARE IN PLACE. L EQUIPMENT THAT ARE TO BE RELOCATED SHALL BE ER UNTIL SUCH TIME AS TO BE REINSTALLED. ANY QUIPMENT SHALL BE RECTIFIED BY THE ELECTRICAL		
ALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR PRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS, THE IDENTIFIED STORAGE LOCATION BY THE PR.	SNOIS	Image: Address of the second system Addendum #1 BID DOCUMENTS FEB 01, 20
ECT MAY BE PERFORMED IN PHASES. THE ELECTRICAL ORDINATE AND SCHEDULE HIS WORK AND ALLOW OSTS TO ACCOMMODATE THE PHASING OF WORK. ANY RRED DUE TO LACK OF PROPER COORDINATION AND ELECTRICAL CONTRACTOR, WITH THE GENERAL ADES OR OWNER'S REPRESENTATIVE, SHALL BE RICAL CONTRACTOR WITHOUT ANY COSTS TO THE RCHITECTURAL PHASING PLANS FOR ADDITIONAL	REVI	No. Description Date C COPYRIGHT 2024 ALL DRAWN OR WRITTEN INFORMATION OR GRAPHI APPEARING HEREIN SHALL REMAIN THE PROPERTY GORMAN RICHARDSON LEWIS ARCHITECTS, II AND AS SUCH IS NOT TO BE DUPLICATED ANY FORM OR DISCLOSED OR OTHERWISE US WITHOUT T H E EXPRESS WRITTEN CONSENT GORMAN RICHARDSON LEWIS ARCHITECTS, II
M SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE NOT BE ALLOWED. ALL REQUIRED SYSTEM OORDINATED WITH AND APPROVED BY THE OWNER'S HE AUTHORITY HAVING JURISDICTION. DEMOLITION OF HALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS ALLED, TESTED AND APPROVED BY THE AUTHORITY	N COPYRIGHT	ALL DRAWN OR WRITTEN INFORMATION OR GRAPHI HEREIN IS NOT GUARANTEED AGAINST DEFECTS TH. INCLUDE, BUT ARE NOT LIMITED TO, ERRORS A OMISSIONS, DESIGN CALCULATIONS AND DIMENSIO DATA TRANSMISSION, OR DATA TRANSLATION.
ACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH TONS TO THE EXISTING LOOP DURING ALL PHASES OF JIRED BY THE AUTHORITY HAVING JURISDICTION AND FOR RECONNECTION OF LOOP. NOTE THAT THERE MAY MULTIPLE DISCONNECTIONS AND RECONNECTIONS, TY HAVING JURISDICTION.	SEAL / ORIENTATIO	
		Date: MARCH 27, 2024 Proj. No.: 2019023.01 Scale: 1/8" = 1'-0"
	DATA	Drawn By: WMD Checked By: ARH File Name:
		ELECTRICAL LEGEND AND GENERAL NOTES
	TITLE	
	SHEET	E0.0

N 20 Ν CH AR Σ ш S ID Ω ш 2 ш Δ - D 4 — ₹ <u>\R 27, 202</u>4 Z <u>B 01, 202</u>3 4 ST ST R GRAPHICS ROPERTY OF TECTS, INC. CATED IN WISE USED DNSENT OF TECTS, INC. R GRAPHICS FECTS THAT RRORS AND DIMENSIONS, ATION. HO **' Z** 0 Y Δ - O **–** ^Ľ Ζ 3 0 -0 M N 0 5 20

1 IST FLOOR ELECTRIC ROOMS

HOPKINTON FIRE STATION HVAC UPGRADE RE-BID

POWER PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E.0. FOR ADDITIONAL REQUIREMENTS.

2. REFER TO DRAWING E0.0 FOR LEGEND AND GENERAL NOTES.

3. CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS' AS-BUILT DRAWINGS.

4. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM VOLTAGE DROP OF 3%. CONTRACTOR SHALL PROVIDE #10AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 60 FEET IN LENGTH AND #10AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 140 FEET IN LENGTH. CONTRACTOR SHALL PROVIDE #8AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 100 FEET IN LENGTH, BUT LESS THAN 160 FEET IN LENGTH AND #8AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 225 FEET, BUT LESS THAN 350 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.

5. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS.

DEDUCT ALTERNATE NOTES

- DEDUCT ALTERNATE No.1 a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE) DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. DEDUCT ALTERNATE No.2
- a. **PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW** HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

	Bid # 24-05-002IFB
PROJECT	73 MAIN STREET HOPKINTON, MA 01748
	TOWN OF HOPKINTON
CLIENT	83 WOOD STREET HOPKINTON, MA 01748
FIRM	R. V. Sullivan Engineering MEP / FP Engineering . Code . Commissioning The Schraft Center 529 Main Street, Suite 203 Boston, Massachusetts 02129-1107 Phone: (617) 523-8027 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # 200170.00
KEY PLAN	
REMARKS	
REVISIONS	Image: Rebib-3 DOCUMENTS MAR 27, 2024 1 ADDENDUM #1 BID DOCUMENTS FEB 01, 2023 No. Description
Сорүкібнт	C COPYRIGHT 2024 ALL DRAWN OR WRITTEN INFORMATION OR GRAPHICS APPEARING HEREIN SHALL REMAIN THE PROPERTY OF GORMAN RICHARDSON LEWIS ARCHITECTS, INC. AND AS SUCH IS NOT TO BE DUPLICATED IN ANY FORM OR DISCLOSED OR OTHERWISE USED WITHOUT THE EXPRESS WRITTEN CONSENT OF GORMAN RICHARDSON LEWIS ARCHITECTS, INC. ALL DRAWN OR WRITTEN INFORMATION OR GRAPHICS HEREIN IS NOT GUARANTEED AGAINST DEFECTS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERRORS AND OMISSIONS, DESIGN CALCULATIONS AND DIMENSIONS, DATA TRANSMISSION, OR DATA TRANSLATION.
SEAL / ORIENTATION	
DATA	Date: MARCH 27, 2024 Proj. No.: 2019023.01 Scale: 1/8" = 1'-0" Drawn By: WMD Checked By: ARH File Name:
	ELECTRICAL FIRST FLOOR PLAN
SHEET	E1.1

POWER PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E.0. FOR ADDITIONAL REQUIREMENTS.

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5. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS.

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a. **PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW** HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

POWER PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E.0. FOR ADDITIONAL REQUIREMENTS.

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5. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS.

POWERPLAN KEYED NOTES:

- REPLACE EXISTING SPARE BREAKER (MADE SPARE DURING DEMOLITION PHASE)
 WITH NEW (SIZE AS INDICATED). NEW BREAKER SHALL MATCH THE EXISTING PANEL'S MANUFACTURER, MODEL AND A.I.C. RATING. RE-WORK EXISTING PANEL BREAKER LAYOUT TO ALLOW FOR LOCATION OF NEW BREAKERS AS INDICATED
- (2) UTILIZE EXISTING SPARE BREAKER (MADE SPARE DURING DEMOLITION PHASE) PROVIDE NEW BRANCH CIRCUITRY ÀS INDICATED.

DEDUCT ALTERNATE NOTES

DEDUCT ALTERNATE No.1

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a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF a HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

			(THE ELECTRICA	L CONTRAC	TOR SHALL	ME PROVIDE A		ICAL E BREAKERS, F	QUIPMENT SC FEEDERS, BRANCH CIRCUIT	CHED			VICES II	NDICATE	D ON TH	HIS SCH	IEDULE)
					-	-		,	,	,			CONN	ECTION	-		_	,
SYME	BOL	LOCATION	DESCRIPTION	HP / MCA / KW	PANEL - CKT NO.	VOLTS (V)	PHASE (Ø)	CIRCUIT BREAKER	FEEDER	\$ ^{TP}	VFD	\boxtimes			\sim	J	WP	REMARKS
	b) si	EE FLOOR PLANS		26.2 AMPS	MDP-1	208	3	35A-3P	4#10 & 1#10G - 3/4"C		•		•		•	•	•	
	D SI	EE FLOOR PLANS	ROOFTOP UNIT	76.2 AMPS	MDP-4	208	3	80A-3P	4#2 & 1#8G - 1-1/2"C.		•				•	•	•	1. UNFUSED DISC SWITCH & GFCI RECEPTACLE PROVIDED WITH HVAC UNIT. 2. EC TO INSTALL 120V, 1P POWER EXHAUST
	Si	EE FLOOR PLANS	ROOFTOP UNIT	69.2 AMPS	MDP-5	208	3	80A-3P	4#2 & 1#8G - 1-1/2"C.		•		•		•	•	•	UNIT PROVIDED LOOSE WITH HVAC UNIT. 3. NOTES 1 & 2 ABOVE ARE TYPICAL FOR UNITS RTU-1, RTU-2, RTU-3 & RTU-4.
	SI SI	EE FLOOR PLANS	ROOFTOP UNIT	69.2 AMPS	MDP-7	208	3	80A-3P	4#2 & 1#8G - 1-1/2"C.		$\left\{ \bullet \right\}$		•		•	•		
BP 1A	SI	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	SEE FLOOR	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
BP 1B	B SI	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
	SI	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	SEE FLOOR PLANS	120		20A-1P	2#12 & 1#12G - 3/4"C						•	•		DEDUCT ALTERNATE #1
	B SE	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	DEDUCT ALTERNATE #1
BP 3A	si	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	DEDUCT ALTERNATE #2
		EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR		FLOOR PLANS	120		20A-1P	2#12 & 1#12G - 3/4"C		\sim							DEDUCT ALTERNATE #2
	si	EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	FLOOR PLANS SEE	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
		EE FLOOR PLANS	BI-POLAR IONIZATION GENERATOR	1 A	FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
	si	EE FLOOR PLANS	SPLIT SYSTEM OUTDOOR UNIT	28A	SEE FLOOR PLANS	208	1	40A-2P	2#8 & 1#10G - 3/4"C					•	•	•	•	INDOOR UNIT POWERED VIA OUTDOOR UNIT PROVIDE INTERCONNECTION WIRING BETWEEN INDOOR UNIT AND OUTDOOR UNIT
	S SI	EE FLOOR PLANS	SPLIT SYSTEM INDOOR UNIT	1A	FED FROM ACCU-1								•		•	•		PROVIDED WITH INTEGRAL CONDENSATE PUMP. PROVIDE ALL WIRING AND INTERFACES AS REQUIRED
	SI SI	EE FLOOR PLANS	SPLIT SYSTEM OUTDOOR UNIT	11A	SEE FLOOR PLANS	208	1	15A-2P	2#12 & 1#12G - 3/4"C					•	•	•	•	INDOOR UNIT POWERED VIA OUTDOOR UNIT PROVIDE INTERCONNECTION WIRING BETWEEN INDOOR UNIT AND OUTDOOR UNIT
	Si Si	EE FLOOR PLANS	SPLIT SYSTEM INDOOR UNIT	1A	FED FROM ACCU-2								•		•	•		PROVIDED WITH INTEGRAL CONDENSATE PUMP. PROVIDE ALL WIRING AND INTERFACES AS REQUIRED
EF 2		ROOF	EXHAUST FAN	2 HP	MDP-3	208	3	20A-3P	3#12 & 1#12G - 3/4"C		•		•		•	•	•	
EF 10		ROOF	EXHAUST FAN	1/6 HP	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
EF 12		ROOF	EXHAUST FAN	1/10 HP	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
	≥ si	EE FLOOR PLANS	CONDENSATE PUMP	1/30 HP	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C	•					•	•	•	
CF 2	S s	EE FLOOR PLANS	CONDENSATE PUMP	1/30 HP	SEE FLOOR PLANS	120	1	20A-1P	2#12 & 1#12G - 3/4"C						•	•	•	

CONTRACTOR.

CIRCUIT BREAKERS

MEP/FP COURDINATION SCHEDULE NOTES

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER TO ALL EQUIPMENT ON THIS SHEET. 2. PROVIDE ALL NECESSARY MATERIALS, WIRING AND CONNECTIONS REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.

3. DISCONNECT SWITCHES, RECEPTACLES AND MOTOR STARTERS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.

4. FEEDER VALUES BASED ON COPPER CONDUCTORS UNLESS OTHERWISE NOTED .

FEEDERS:

- A. UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP. B. NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATE CHARACTERISTICS. C. WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE. D. WHERE CONDUCTORS SERVE ROOF TOP EQUIPMENT SHALL BE XHHW-2 TYPE.
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT AND WIRING BETWEEN INDOOR UNIT "AC-*" AND OUTDOOR UNIT "HP-*" PER MANUFACTURERS REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS PRIOR TO INSTALLATION. PROVIDED WEATHERPROOF FUSED DISCONNECT ON OUTDOOR UNIT.
- 6. POWER TO INDOOR UNIT "AC-*" IS PROVIDED FROM OUTDOOR UNIT "ACC-*". PROVIDE NON-FUSED DISCONNECT ON INDOOR UNIT. PROVIDED GFCI DUPLEX RECEPTACLE FOR CONDENSATE PUMP, TIE INTO ROOM RECEPTACLE BRANCH CIRCUIT. FEEDER VALUES BASED ON COPPER CONDUCTORS UNLESS OTHERWISE NOTED .

7. FACTORY DISCONNECTS SHIPPED LOOSE SHALL BE INSTALLED BY THE ELECTRICAL

8. PROVIDE FUSES FOR DISCONNECT SWITCHES TO MATCH EQUIPMENT MOCP.

9. ELECTRICAL CONTRACTOR TO PROVIDE THE WIRING BETWEEN THE FACTORY SUPPLIED VFD'S AND THE HVAC EQUIPMENT AS REQUIRED. VFD'S TO BE

LOCATED AS DIRECTED BY ARCHITECT.

BRANCH CIRCUIT SCHEDULE

IRCUIT BREAKERS	CONDUCTORS
120 VOLT & 277 VOL	.T 1Ø, 2W. CIRCUITS
30A-1P	2#10 & 1#10G - 3/4"C.
40A-1P	2#8 & 1#10G - 3/4"C.
50A-1P	2#6 & 1#10G - 3/4"C.
60A-1P	2#6 & 1#10G - 3/4"C.
208 VOLT & 480 VOL	.T 1Ø, 2W. CIRCUITS
20A-2P	2#12 & 1#12G - 3/4"C.
30A-2P	2#10 & 1#10G - 3/4"C.
40A-2P	2#8 & 1#10G - 3/4"C.
50A-2P	2#6 & 1#10G - 3/4"C.
60A-2P	2#6 & 1#10G - 3/4"C.
208 VOLT & 480 VOL	.T 3Ø, 3W. CIRCUITS
20A-3P	3#12 & 1#12G - 3/4"C.
30A-3P	3#10 & 1#10G - 3/4"C.
40A-3P	3#8 & 1#10G - 3/4"C.
50A-3P	3#6 & 1#10G - 3/4"C.
60A-3P	3#6 & 1#10G - 3/4"C.

DEDUCT ALTERNATE NOTES DEDUCT ALTERNATE No.1 a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. DEDUCT ALTERNATE No.2 a. **PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW** HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS.

THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

EXISTING RECEPTION EXISTING RECEPTION EXISTING OFFICE REC EXISTING OFFICE REC EXISTING KITCHEN REC

EXISTING LIGHTING

EXISTING LIGHTING EXISTING OFFICE REC EXISTING OFFICE REC

EXISTING LIGHTING EXISTING RECEPTION

SUBTOTAL

PROJECT: VOLTAGE: MAIN BUS: MAIN BREAKER: MOUNTING:

DIRECTORY

NEW RTU-1

SUBTOTAL

1	REP AS II AND
(2)	UTIL

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,652 20,652 20,652	2							9,144	9,144	9,144	SUBTOTA	- 			Boston, Massachusetts 02129-1107 Phone: (617) 523-8227 Fax: (617) 523-8016
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	3	20A	+	<u> </u>		20A	4					П			GORMAN RICHARDSON LEWIS ARCHITECTS, INC. AND AS SUCH IS NOT TO BE DUPLICATED IN ANY FORM OR DISCLOSED OR OTHERWISE USED
	7	20A 20A		L		20A 20A	8		<u> </u>		EXISTING OUTLETS	H		_	GORMAN RICHARDSON LEWIS ARCHITECTS, INC.
	9	20A		<u> </u>		20A	10					Ħ		PYRIGH	HEREIN IS NOT GUARANTEED AGAINST DEFECTS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERRORS AND OMISSIONS, DESIGN CALCULATIONS AND DIMENSIONS.
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	17 19	20A 20A		F		20A 20A	18 20				EXISTING OUTLETS	H		NO	
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	23	20A		L		20A 20A	24				EXISTING SECURITY	H		- / ORII	
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00 1,248	31	20A	}	1	ĔŻ	20A	30	1,500		3,016	BAS ATC SYSTEM	A E	\smile		Date: MARCH 27, 2024
200	33	20A	$\rightarrow +$	<u> </u>		20A	34					Ħ			Proj. No.: 2019023.01
	35	20A 20A		L		∠UA	30					H			Scale: 1/8" = 1'-0"
	39	20A	<u> </u>	<u>ا</u>	$\vdash \frown$	100A	40				PANEL EP2	Ц			Drawn By: WMD
00 1,448 1,248	41	20A] <u>-' `</u>		<u>r ()</u>		42	1,500	3,016	3,016	SUBTOTAL				Checked By: ARH
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SCHEDUL	EK	EYE	D NO	ΓE	<u>S:</u>										RISER AND SCHEDULES
														1	

PANEL SCHEDULE KEYED NOTES:

LACE EXISTING SPARE BREAKER (MADE SPARE DURING DEMOLITION PHASE) WITH NEW (SIZE INDICATED). NEW BREAKER SHALL MATCH THE EXISTING PANEL'S MANUFACTURER, MODEL A.I.C. RATING. RTU LOADS SHOWN INCLUDE POWER EXHAUST UNIT.

ILIZE EXISTING SPARE BREAKER (MADE SPARE DURING DEMOLITION PHASE) PROVIDE NEW BRANCH CIRCUITRY AS INDICATED.

E3.(

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DEMOLITION PLAN NOTES:

- 1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E0.0 FOR ADDITIONAL REQUIREMENTS.
- 2. WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

DEMOLITION PLAN KEYED NOTES:

- EXISTING EQUIPMENT TO BE REMOVED, ASSOCIATED EQUIPMENT AND WIRING SHALL BE REMOVED IN THEIR ENTIRETY. MAINTAIN EXISTING BREAKER FOR RE-USE IN THIS PROJECT
- CEILING GRID IN THIS AREA TO BE REPLACED. REMOVE EXISTING LIGHT FIXTURES AND STORE ON SITE FOR REPLACEMENT IN NEW CEILING GRID. MAINTAIN ALL WIRING FOR FUTURE RECONNECTION.

A 24 × 36-V FORMAT SHEET TEMPLATE | REV.2020.02.15

73 / T(d # main sti DWN	24-0 REET HOF	5-002 PKINTON, HOP	2IFB ma 01748 KINTON
83 \ Hof	NOOD S PKINTON	TREET I, MA 017	48	
	R. W. MEP/FPE Bosto	Sulliva Engineering . Cod The Schrafft C 329 Main Street, S ,n, Massachusetts Phone: (617) 523 Fax: (617) 523 www.rwsullivar RWS JOB # 20	An Eng le . Commissionin enter Suite 203 so (2129-1107) -8227 -8016 com 00170.00	ineering
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	: No.:	MARCH 27, 2019023.01	2024	
Date Proj.	2:	1/8" = 1'-0" WMD ARH		
Date Proj. Scale Draw Chec	n By: ked By:			

DEMOLITION PLAN NOTES:

- 1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E0.0 FOR ADDITIONAL REQUIREMENTS.
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DEMOLITION PLAN KEYED NOTES:

- EXISTING EQUIPMENT TO BE REMOVED, ASSOCIATED EQUIPMENT AND WIRING SHALL BE REMOVED IN THEIR ENTIRETY. MAINTAIN EXISTING BREAKER FOR RE-USE IN THIS PROJECT, WIRING TO BE REMOVED.
- CEILING IN THIS AREA TO BE DISTURBED. REMOVE EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS AND SPEAKERS WHERE REQUIRED AND STORE ON SITE FOR REPLACEMENT IN NEW CEILING. MAINTAIN ALL WIRING AND CONTROLS FOR FUTURE RECONNECTION. ALL LIGHT FIXTURES, OCCUPANCY SENSORS AND SPEAKERS SHALL BE REMOVED AND STORED IN A DRY, HEATED AND SECURE LOCATION. COORDINATE WITH OWNER. LIGHTING BRANCH CIRCUITS SHALL BE RE-CONNECTED TO RE-INSTALLED LIGHT FIXTURES.
- ALL EXISTING LOW VOLTAGE WIRING AND SYSTEMS SHALL NOT BE CUT OR DISTURBED AS THE SYSTEMS ARE VERY OLD AND DELICATE - COORDINATE WITH OWNER.
- LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES MAY BE HUNG FROM CHAIN IN LIEU OF REMOVAL AND RE-INSTALLATION IF IT IS DETERMINED IN THE FIELD THAT HANGING THEM WILL NOT INTERFERE WITH OTHER TRADES OR DAMAGE THE FIXTURES OR DEVICES.

DEDUCT ALTERNATE NOTES

DEDUCT ALTERNATE No.1

- a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN. DEDUCT ALTERNATE No.2
- a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

DEMOLITION PLAN NOTES:

- 1. REFER TO GENERAL DEMOLITION NOTES ON DRAWING E0.0 FOR ADDITIONAL REQUIREMENTS.
- WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

DEMOLITION PLAN KEYED NOTES:

EXISTING EQUIPMENT TO BE REMOVED, ASSOCIATED EQUIPMENT AND WIRING SHALL BE REMOVED IN THEIR ENTIRETY. NO EQUIPMENT OR WIRING SHALL BE ABANDONED IN PLACE, MAINTAIN EXISTING BREAKER FOR RE-USE IN THIS PROJECT.

DEDUCT ALTERNATE NOTES

DEDUCT ALTERNATE No.1

- a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-2 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-2 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.1 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING & CONTROLS. THE **EXISTING RTU-2 SYSTEM & APPURTENANCES TO REMAIN.** . DEDUCT ALTERNATE No.2
- a. PROVIDE A DEDUCT ALTERNATE BID PRICE TO REMOVE THE NEW HVAC RTU-3 SYSTEM COSTS FROM THE CURRENT SCOPE. RTU-3 TO BE INSTALLED LATER AS DETERMINED BY THE "TOWN OF HOPKINTON, MA". DEDUCT ALTERNATE No.2 TO INCLUDE DEMOLITION, NEW ELECTRICAL POWER WIRING AND CONTROLS. THE EXISTING RTU-3 SYSTEM & APPURTENANCES TO REMAIN.

ROO	F TOP	UNIT	SCHI	EDUL	E				All The Constant of Constant 		
SYMBOL	BTU/HR HEATING	BTU/HR COOLING	NOMINAL TONS	TOTAL CFM	O.A. CFM	S.P.	H.P.	VOLTAGE	WEIGHT	MFG	MODEL
RT-1		37,800	3	1200	160	0.66	1	208/3/60	575#	CARRIER	50HJ004
RT-2		48,900	4	1650	140	0.52"			600#		50HJ005
RT-3	at and the spectrum constraints of the spectrum of	78,900	6	2400	750	0.55"	2		660#		50HJ007
RT-4		92,900	7.5	3230	300	0.57"	3		900#		50HJ008

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HO	<u>I</u> WA	TER	COIL	SC	HE	DULI	900005 508 						
MARK	AREA F T ^e	VEL. FT/MIN	ROWS	FPF	CFM	EAT	LAT	AIR ▲ P	EWT	LWT	мвн	GPM	FIN. TYPE
HWC-1-1	1	330	2	80	330	58	115	0.10	180	160	20.5	5.5	SF
HWC-1-2		360		110	360			0.13			25,9	2.8	
HWC-1-3		500		150	500			0.20			34.3	3.7	PF
HWC-2-1	1.5	400		80	600	63		0.14			34.5		SF
HMC-5-5	2	500		110	1000			0.15			57.9	6.2	PF
HWC-3-1	5.25	457		94	2400	47		0.17			177.0	19.0	
HWC-4-1	6	500		120	3000	62	ļ	0.16			172.4	18.5	

UN	IT HE	ATER	SCHE	DULE			na tite antist filmstyren provident to a region and providence	******	
SYMBOL	BTU/HR	EWT	LWT	GPM	CFM	HP	VOLTAGE	MFG	MODEL
UH-1	101,700	180	150	6.7	2600	1/4	115/1/60	STERLING	HS-156
UH-2	8030		160	0.8	245	9 WATTS			HS-108A

CA	BINET	HEAT	ER SC	HEDU	LE	999 a Scharol Martin (1994) a Canching Scharol Angele Japan			
SYMBOL	BTU/HR	EWT	LWT	GPM	CFM	HP	VOLTAGE	MFG	MODEL
CUH-1	22,800	180	160	2.32	335	1/15	115/1/60	STERLING	WI-1110-03
CUH-2	16,400			1.68	230				VI-1110-02

PU	MPS		· · · · · · · · · · · · · · · · · · ·	**************************************	nana marina ana di sana ana ana ana da an					*******
SYMBOL	GPM	HD. IN FEET	HP	RPM	VOLTAGE	% EEF	SERVICE	MFG	MODEL	REMARKS
P-1	80	55	3	1760	208/3/60	52	HEATING SYSTEM	TACO	VL2508	
P-2								•		

****			Madmandsigninis-annes/Mecorasponsions-monstage	and the standing of the spectrum states and states are							
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MAPK	CEM	S D	PDM	ELE	CTRICA		цр	TVDE	CED //OF		LODE
		J.F.,		VOLT	ø	HZ		HIPE	SERVICE	MFG	MODEL
EF-1	11,900	,125*	400	208	3	60	1	PROP.	NEW APPARATUS	PENN	BBK 42
EF-2	6,700	.250"	307	ļ			1/2	UP-BLAST	EXISTING APPARATUS		FUMEX 36B
EF-3	825	.136	1050	115	1		1/8	IN-LINE			Z12STDA
EF-4	500	.156					1/20	CEILING			Z101STDA
EF-5	110	.331	1550				79 WA <mark>I</mark> TT	6	TOILET ROOM		Z5H
EF-6	.										
EF-7	210	.386	1050				1/25				Z81S
EF-8	225	,298					1/12				Z8S
EF-9	350	.250	1456						KITCHEN		Z8HL
EF-10	775	,268	1140					ROOF	TRAINING		AT20
EF-11	715	.255	1550				1/7	PROP.	HOSE TOWER		P12R
EF-12	420	.262	1750				1/12	ROOF	TOILET ROOMS		XQ82
EF-13	365	.326	1550				ł	CEILING	LOCKER ROOM		Z8H
SF-1	485	.184	1050			J	1/20	IN-LINE			Z101STDA

.

2

FIN	TUBE	RADIA	TION	SCHEDULE					
SYMBOL	TUBE SIZE-MTL.	BTU HR-FT	EWT	LWT	GPM	MFG	MODEL		
FT	3/4" COPPER	810	180	160		STERLING	C3/4-35		

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\/ \ \/	ROY	CHED			<u></u>					rational de la companya de la comp
MARK	СЕМ	SIZE	VELOCITY	ΔP	MODEL	MFG			car	
VAV-1	360 60	7*ø	1385	0.055″	AES∨3000	TITUS			ya	SI
		<u></u>	ana ang ang ang ang ang ang ang ang ang							
									YILL	MY.
			NOTE:	<u></u>				-		
			ALL DUCTWO 6 POUND D AND COATED	ORK ON THE F ENSITY, RIGID WITH 2 COA	ROOF SHALL BE I BOARD, FIBERGLA IS OF MOPPED II	NSULATED WITH SS DUCT INSU N PLACE WEAT	H JLATION HER		161 nerver	i avenue sachusetts
			PROOF MAS	TIC. DUCTWORN	(SHALL BE PITC ALVE SHALL BE L	HED TO SHED	WATER. E THE			
			COIL.	ON THE ROOF	SHALL BE INSU	ATED WITH 2	INCH		Stan ORY J. C. A.	LOUCAS/L AND
			THICK PIPE ON BOTH TH	INSULATION W 1E PIPING AND	THE ELBOWS.	of aluminum	JACKET		С No. 5022 возтон.	CRUIS HAC
				ad an year an an					MA	THE STONAL ENGLAND
			1				•		2000 and	1 8/6/96
ROOF										
- WALL CAP	()	2		анан 1997 - Алан 1997 - Алан						
		sa l		12x18 LOU	ER AND					
				- 36X18 GLAS IN TOP OF SHAFT.	ELEVATOR					
				BY HVAC C	UNTRACTOR.		ň			
39X15, LINE DOWN FROM RT-4.	ED, A									
TERMINATE I ELBOW LOOI UP.	IN KING									
14 TRANSFER L.				· · · · · · · · · · · · · · · · · · ·						
	E BACK DRAFT R AND BACK GU/	ARD.								
	14"Ø FLUE UP BELOW WITH V		12) 12"	MECK						
	TOP OF EXISTI	NG CHIMNEY.	450	CFM						
	CT NEW 6" EXHA O RANGE HOOD.	UST	12"ø	10X10						
		X12								
WS T	5 100 CFM 6X6	·	12x 12" 450	12 Ø NECK O CFM						
T BUN	150 CFM 32X13, LII	NED.		10X10						
		IN Reseiter	S (en de la composition de la composition En la composition de la
VS VR	ELBOW LO UP. 20X14 UP	OKING		24)	(24 PICAL OF 2)					
		T TO FIT NING. VD 12"ø 12"¢			,	а. А				
WR 01		N 15	(15							
1 1/-			Ø NECK) CFM PICAL OF 4)	7						
2 1		26X14		na mana ang kana ang						
		J 26) FLA	X14 UP TO RT-3				• • •		-OPKINTON -FADOUART	FIRE
	1 1/2" H	ws 81 cm	RB.						3 Boose β 1 Boos ^{es} Tenδ <u>6</u> , Twee μ − 6, 8 το 5	Room B & Guar
	&HWR va	12"ø 12"ø								
	32X13, LII DOWN FRC RT-3	NED, 14) M _ FLA	(10 UP TO EF-1	0						
12X19	TERMINATE ELBOW LO		кв. 12X1 385	2 CFM				н	OPKINTON, MASSACH	USETTS
385 CFM		×o N								an a
									ECOND FLOOR	HVAC PLAN
	•									
Y PLAN	1									
									scale	1/8" = 1'~0"
				•					date	8/ 8 /96
TIONIN	IG UNI	TS							drawn by	LTC
SENSIBL BTU/HR	R OA	M TOTAL S	P HP RPM	CURRENT V PH	HTZ MODEL	MFG			ob no	601
	-	900 —		115 1	60 PC30EK	MITSUBISHI			sheet	
DED WITH MAT	CHING, ROOF M	JUNTED CONDE	NSING UNIT. C	ONDENSING U	NIT SHALL BE 20	8/1/60.				\bigcirc
								1 1	1	1

FIN TUBE RADIATION COVER SHALL BE STYLE 'S' SLOPE TOP/LOW PROFILE.

SE

BOILER	SCHE	DULE (GAS F	IRED)
SYMBOL	INPUT MBH	OUTPUT MBH	MFG	MODEL
B-1	992	794	BURNHAM	V-907₩G
			IN ESS HEATERS	

BOILER SHALL BE PROVIDED WITH TWO TANKLESS HEATERS WITH A TOTAL RATING OF 15 GPM.

			emieran sector and an in a second sector sec	*****	an sine on a sine of the second s		entering e construir constitute e const	uge - an ann an				
		VAV	BOXS	SCHED	ULE	-						
	MODEL	MARK	CFM	SIZE	VELOCITY FPM	ΔP	MODEL	MFG		CC		
	3/4-35	VAV-1	60	7 ″∅	1385	0.055*	AE3 V 3000					
With the second of the seco												
COND FLOOR PLAN		~~~~~~~~~			NOTE:							
Proof Proof Water International State International Stat					ALL DUCTV 6 POUND	VORK ON THI DENSITY, RIG	E ROOF SHALL BE ID BOARD, FIBERGL OATS OF MOPPED	INSULATED WITH ASS DUCT INSULATIONN PLACE WEATHER	DN	161 her	vard avenu	
AIR CONDITIONING UNITS	ROOF				PROOF MA	STIC. DUCTWO	ORK SHALL BE PITO	CHED TO SHED WATE	IR.			MALLE P
					COIL.	ON THE RO	OOF SHALL BE INSU	LATED WITH 2 INCH		States Contraction	A SUMPLICITY	OF MARSA
Image: Condition in the second sec	And the second				THICK PIPI ON BOTH	E INSULATION THE PIPING	WITH WEATHERPRO	OF ALUMINUM JACKI		No. 5022	SEL THE CR	AC 11630
AIR CONDITIONING UNITS								• •		ALTH A		STERING
	9X9									26400	1 8 3/6	196
Image: State of the state	8"Ø NECK	PUVE										
WILL SP Image: State And the State And t		NUUF	Ŷ	$\left\langle \frac{\text{EF}}{2} \right\rangle$								
Image: Section Plane Image: Section Plane Image: Sectin Plane		WALL CAP	(0)									
Image: State and the state of the					,	12x18 L	OUVER AND LASS WINDOW	•				
AIR CONDITIONING UNITS AIR CONDITIONING UNITS AIR CONDITIONING UNITS AIR CONDITIONING UNITS	9X9					SHAFT. BY HVAC	CONTRACTOR.					
AIR CONDITIONING UNITS AIR CONDITIONING UNITS AIR CONDITIONING UNITS AIR CONDITIONING UNITS	6**Ø NECK 180 CFM	39X15, LINE DOWN FROM	ED,									
AIR CONDITIONING UNITS		RT-4. TERMINATE I ELBOW LOO	N KING									
Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Ministry Intel Ministry Intel Ministry Bit Intel Ministry Intel Minintel Ministry		UP. 14 TRANSFER										•
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AIR COND FLOOR PLAN AIR COND FLOOR PLAN AIR COND FLOOR PLAN			14"¢ FLUE UP BELOW WITH V	FROM	JL 1	2X12						
AIR CONDITIONING UNITS SCOND FLOOR PLAN			TOP OF EXISTI	ING CHIMNEY.		50 CFM						
Норкиптон Fire Соно	3/4" 97		CT NEW 6" EXHA O RANGE HOOD. APS	NUST	12"0	10X10	8					
Condition <		10x10 🖬 ⊻		×12								
AIR CONDITIONING UNITS Store 1			6X6 6 Ø NECK	N12	{v"a L⊠ "	NU 4 D					. . 1997 - J. 1997 - J. 19	
Air Conditioning Math with the registration of the registration o		14X12 HWS	6X6 6*ø NECK			2 Ø NECK 50 CFM						
AIR CONDITIONING UNITS 128 P P P P P P P P P P P P P P P P P P P		HWNR -	32X13, LI	NED, DM		10X10						
Exc. 1 The property to property Structure The property Structure The property Structure Structure			RT-2. TERMINATE ELBOW LO	IN OKING	SU						•	
Image: Second		VR (10	20X14 UP. 20X14 UP FLAIR DUC	TO RT-2.			24X24 (TYPICAL OF 2)					
Image: State of the state				NING. VD 12"Ø 12"Ø	<u>*</u> Fø			:				
AIR CONDITIONING UNITS STARE OF BUT AND UNITS STARE		2" HWF		X8 15) 12 600	X15 Ø NECK D CFM							
AIR CONDITIONING UNITS STARE DUCT TO FIT Stare DUCT DUCT DUCT DUCT DUCT DUCT DUCT DUCT	6X6 6*# NECK	2 1/		(TY 26X14	PICAL OF 4)							
Image: Here Signature State S	HWS			26	X14 UP TO RT-	-3				HOPKINT	ON FIRE	
AIR COND FLOOR PLAN AIR CONDITIONING UNITS Strike of monophile of monophile MIT strike of monophile Strike of monophile of monophile Strike of monophile of monophile Strike of monophile of monophile </td <td>4" HWS to HWR</td> <td></td> <td>1 1/2" H</td> <td></td> <td>RB.</td> <td></td> <td></td> <td></td> <td></td> <td>TEADQU/</td> <td>AKIEKS</td> <td></td>	4" HWS to HWR		1 1/2" H		RB.					TEADQU/	AKIEKS	
AIR CONDITIONING UNITS 14x8 14x8 12x12			&HWR v3	12"ø 12"ø	, [∨] " <u> </u>					2 		
2x12 TERMINATE IN 12x12	17 150 CFM		32X13, LII DOWN FRC RT-3	NED, 14) DM FLA	X10 UP TO EF-	-10						
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SECOND FLOOR PLAN Scale 1/8" = 1'-0" date 8/8/96 drawn by trop ac-1 31,000 900 115 15 15 160 PC30EK MITSHALL BE PROVIDED WITH MATCHING, ROOF MOUNTED CONDENSING UNIT. CONDENSING UNIT SHALL BE 208/1/60.	360 CFM 10X10 [385 CFM	Ŋ <u> </u> 14	~~ D								
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