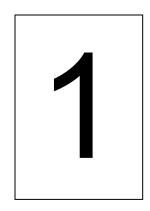
TOWN OF BOXFORD

HVAC, Exterior Repairs, Library Renovation
Town Hall/Library
7A Spofford Road
Boxford, MA

ADDENDUM NO. 1 AUGUST 13, 2020



Addendum #1

Project No.: 699.1

The attention of bidders submitting proposals for the subject project at the Town Hall / Library at 7A Spofford Road, Boxford, MA, is called to the following addendum to the contract. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ENTERED IN THE APPROPRIATE SPACE B ON THE CONTRACT FORM ENTITLED "FORM OF GENERAL BID" AND IN SPACE B OF THE "FORM FOR SUB-BID".

As a reminder, bids are due to the Boxford Police Station at 285 Ipswich Road in Boxford, MA. Do not submit bids to the Town Hall or Library.

A. SPECIFICATION CHANGES:

1. Section 01 5000 TEMPORARY FACILITIES AND CONTROLS

- 1.1. ADD 1.3 as follows:
 - "1.3 USE CHARGES
 - A. Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Architect, testing agencies, and authorities having jurisdiction.
 - B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
 - C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges except if used for temporary heating, which requires metering. Provide connections and extensions of services and metering as required for construction operations.

2. Section 01 7300 EXECUTION

- 2.1. ADD 1.4 as follows:
 - "1.4 CUTTING, CORING, AND PATCHING
 - A. Cutting and patching through existing or new construction using core drill and measuring equal to or larger than 6 inches in diameter, or 6 inches by 6 inches shall be performed by Trades specializing in the specific surfaces affected, e.g.,

gypsum board, etc., except where noted otherwise. Notify the specific Trade(s) of exact locations and sizes for openings required. It is the Contractor's responsibility to coordinate the Work (including coordination with sub-contractors) to use the existing openings to the greatest extent possible.

Addendum #1

Project No.: 699.1

- B. Cutting and patching through existing or new construction using core drill and measuring less than 6 inches in diameter, or 6 inches by 6 inches, shall be performed by the Trade(s) installing the work.
- C. All cutting shall conform to the requirements of Section 01 7300 "Execution".
- D. Firestopping shall conform to the requirements of Section 07 8413 "Penetration Firestopping"."

The above paragraph "CUTTING, CORING, AND PATCHING" and sub-items shall also be added to or replace the following:

- 1. ADD as 1.6 to Section 09 2100 GYPSUM BOARD ASSEMBLIES.
- REPLACE 1.03 in Section 21 0000 FIRE PROTECTION.
- 3. REPLACE 3.06 in **Section 21 0000 FIRE PROTECTION**.
- 4. REPLACE 1.16 in Section 22 0001 PLUMBING.
- 5. REPLACE 3.19 in Section 22 0001 PLUMBING.
- 6. ADD as 1.25.B in Section 23 0001 HEATING, VENTILATION, AIR CONDITIONING.
- 7. REPLACE 1.19.A in Section 26 0000 ELECTRICAL.

3. Section 04 2000 MASONRY

- 3.1. ADD 1.3.A.7 and 8 as follows:
 - "7. Replacement brick. Assume 10% of brick being removed will be damaged and therefore, require replacement.
 - 8. Removal of existing mortar in the vertical joints in pre-cast stone."
- 3.2. ADD 1.3.C. as follows:
 - C. Items to be Installed Only: Provide labor to install materials not provided in this Section including, but not limited to, the following:
 - 1. Backer rod, sealant, and sand in vertical joints in pre-cast stone from Section 07 9200 JOINT SEALANTS."
- 3.3. REPLACE 2.2 Brick with the following:
 - 2.2 BRICK
 - A. Basis-of-Design Product: Subject to compliance with requirements, provide Cushwa Brick as manufactured by Glen-Gery or an approved equal.
 - B. Face Brick: Facing brick complying with ASTM C216.
 - 1. Color: Two colors, one "light" and one "dark". It is the intent to match the finish of the existing brick.
 - 2. Style: Molded. It is the intent to match the finish of the existing brick.
 - 3. Grade: SW
 - 4. Type: FBS
 - 5. Size: Modular. It is the intent to match the existing brick.

4. Section 04 7200 CAST STONE MASONRY

4.1. ADD the following to the end of 1.2.A.2:

"Assume 10% of cast stone being removed will be damaged and therefore, require replacement. This includes all profiles."

Addendum #1

Project No.: 699.1

5. Section 07 9200 JOINT SEALANTS

- 5.1. OMIT 1.2.A.5.
- 5.2. ADD 1.2.B. as follows:
 - "B. Items to be Furnished Only: Furnish the following items for installation by the designed Sections:
 - 1. Sealant, sand, and backer rod for use in vertical joints in pre-cast stone to Section 04 2000 MASONRY."

6. Section 23 0001 HVAC

- 6.1. OMIT 1.26.B "3. Dust Control" and 1.26.E "Dust Control".
- 6.2. OMIT 1.26.B "4. Ventilation Requirements" and 1.26.F "Ventilation Requirements".
- 6.3. OMIT 1.26.B "5. Noise Control" and 1.26.G "Noise Control".
- 6.4. ADD the following at the beginning of 1.26.A:
 - "A. The existing boilers pumps Boiler Room controls are to remain and become part of the building permanent heating system. The existing heating and cooling systems provide heating, cooling and ventilation to the building as follows:
 - AC-1 and AC-2 serve the First Floor.
 - AC-3 serves the Lobby of the First Floor and Main Corridor Second Floor.
 - AC-4 serves the large Meeting Room.
 - AC-5 and AC-7 serve the Second Floor.
 - AC-6 serves Conference Room 202 and 208.

The HVAC contractor may use the existing air handlers and duct distribution system for temporary heat."

- 6.5. OMIT 1.26.H "Enclosures".
- 6.6. OMIT all references to "cooling" from 1.27.A through G.
- 6.7. ADD the following to 1.27:
 - "H. The HVAC contractor shall pay for costs of temporary heating including but not limited to work required by the Electrical contractor associated with any necessary temporary wiring, and controls for the operation of the temporary heat. The HVAC contractor shall also pay cost of gas and electrical power consumed by the existing hot water heating system, supplemental electrical heating devices, and the new Variable Refrigerant Flow system."

B. DRAWING CHANGES:

1. **General / Various Locations**

1.1. In the Ceiling Legend that appears on multiple drawing sheets, REPLACE the note at the end with the following:

"Note:

For existing ceiling tiles at the second floor that are shown to be removed and reinstalled, assume replacement of 10% of existing tiles due to damage during construction (09 5123)."

Addendum #1

Project No.: 699.1

2. Drawing A111 FIRST FLOOR PLAN

- 2.1. REPLACE detail 2 with enclosed 1/SKA-1 Addendum #1.
- 2.2. REPLACE detail 3 with enclosed 1/SKA-2 Addendum #1.

3. Drawing A141 ROOF PLAN & DETAILS

3.1. ADD, REPLACE, and OMIT notes as indicated on enclosed A141.

4. <u>Drawing A201 NORTH AND SOUTH ELEVATION</u>

4.1. ADD, REPLACE, and OMIT notes as indicated on enclosed A201.

5. **Drawing A202 EAST AND WEST ELEVATION**

5.1. ADD, REPLACE, and OMIT notes as indicated on enclosed A202.

6. **Drawing A300 EXTERIOR BUILDING DETAILS**

6.1. ADD, REPLACE, and OMIT notes as indicated on enclosed A300.

7. <u>Drawing A501 INTERIOR ELEVATIONS AND ENLARGED PLANS</u>

7.1. ADD, REPLACE, and OMIT notes as indicated on enclosed A501.

8. **Drawing H-0**

8.1. ADD sheet "H-0" as enclosed.

9. **Drawing H-3**

9.1. ADD the note at the drawing at FCU-4 to read as follows: "Connect a 12x6 supply air branch with volume damper from the 16x10 supply air duct main from ERV-2 to horizontal return duct at FCU-4."

10. Drawing E0-2 ELECTRICAL SCHEDULES AND POWER RISER

- 10.1. ADD Fixture Type "B" and Fixture Type "C" to the "Lighting Fixture Schedule" as shown on the enclosed E0-2.
- 10.2. ADD "Fire Alarm Riser Diagram" as shown on the enclosed E0-2.

11. Drawing E-1 ELECTRICAL NEW WORK PLANS

11.1. ADD fixtures in the "Queuing Space" (identified on the plans adjacent to "Entry Lobby") as shown on the enclosed E-1.

C. BIDDER QUESTIONS: The following is intended to provide responses to those questions that are best answered via direct written response as opposed to merely in the language of drawing and specification notes. Other question responses are addressed in the SPECIFICATION CHANGES and DRAWING CHANGES sections of this addendum.

Addendum #1

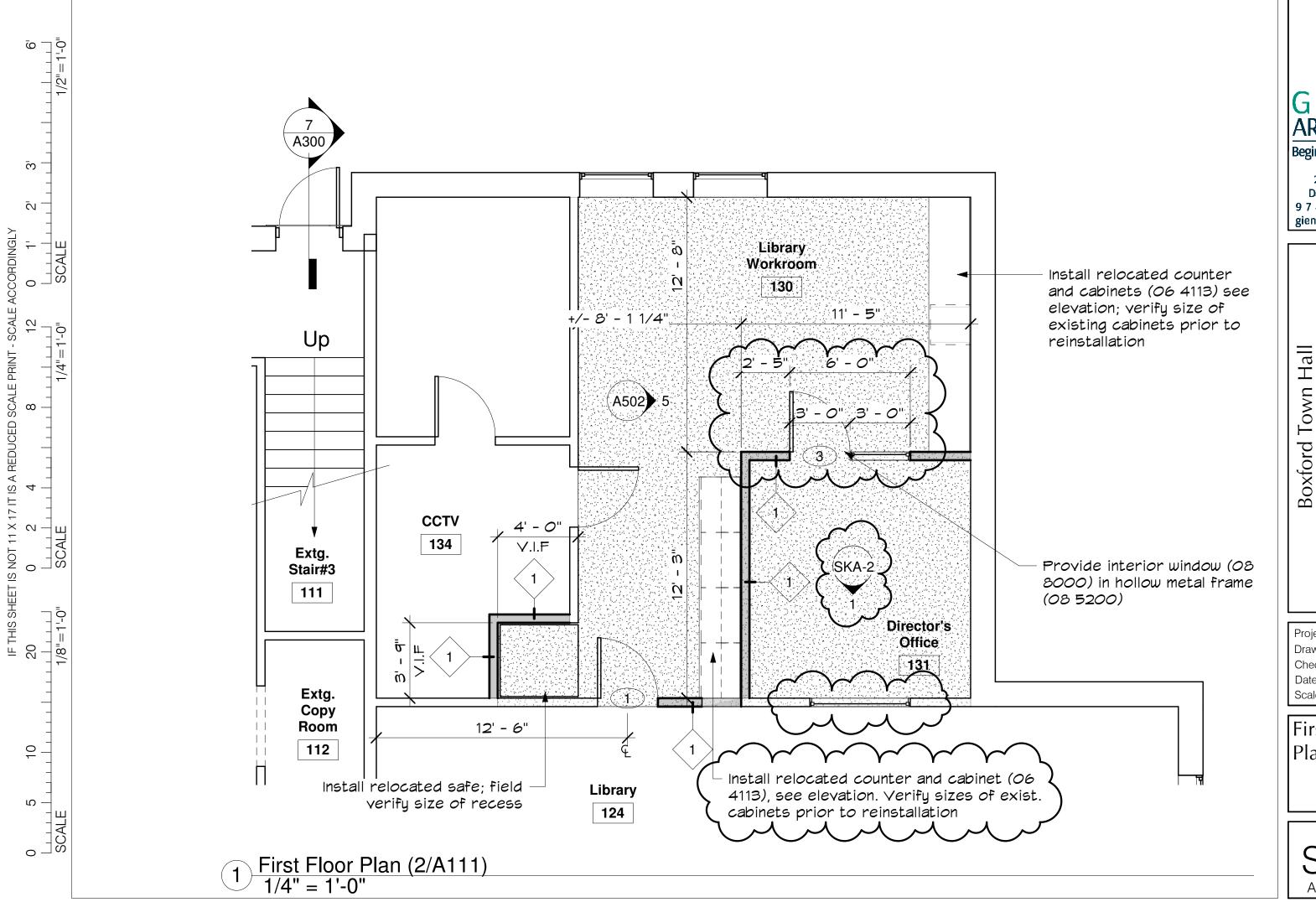
Project No.: 699.1

- Q1: Who is to provide temporary heating?
- A1: The responsibility of temporary heating are as follows:
 - 1. Interior heating while HVAC work is ongoing.
 - a. Interior heating is to be furnished and installed by the HVAC contractor.
 - b. Interior heating use charges are to be by the General contractor.
 - c. Interior heating may utilize the existing HVAC system when available with the protections indicated in the Project Manual.
 - d. Requirements for interior heating (i.e. acceptable temperatures) are listed in Section 23 0001 HVAC.
 - 3. Exterior heating for masonry work is to be by the Masonry contractor. This includes furnishing, installing, and use charges.
 - 4. Heating shall not use the building's electrical utility unless able to be metered and tracked separately.
- Q2: Was the pre-bid walkthrough mandatory?
- A2: The pre-bid walkthrough was not mandatory; however, a site visit is highly recommended. A list of bidders who attended the pre-bid walkthrough are attached.

D. ATTACHMENTS:

- 1. SKA-1
- 2. SKA-2
- 3. A141
- 4. A201
- 5. A202
- 6. A300
- 7. A501
- 8. H-0
- 9. E0-2
- 10. E-1
- 11. List of Pre-Bid Walkthough Attendees

END OF ADDENDUM #1



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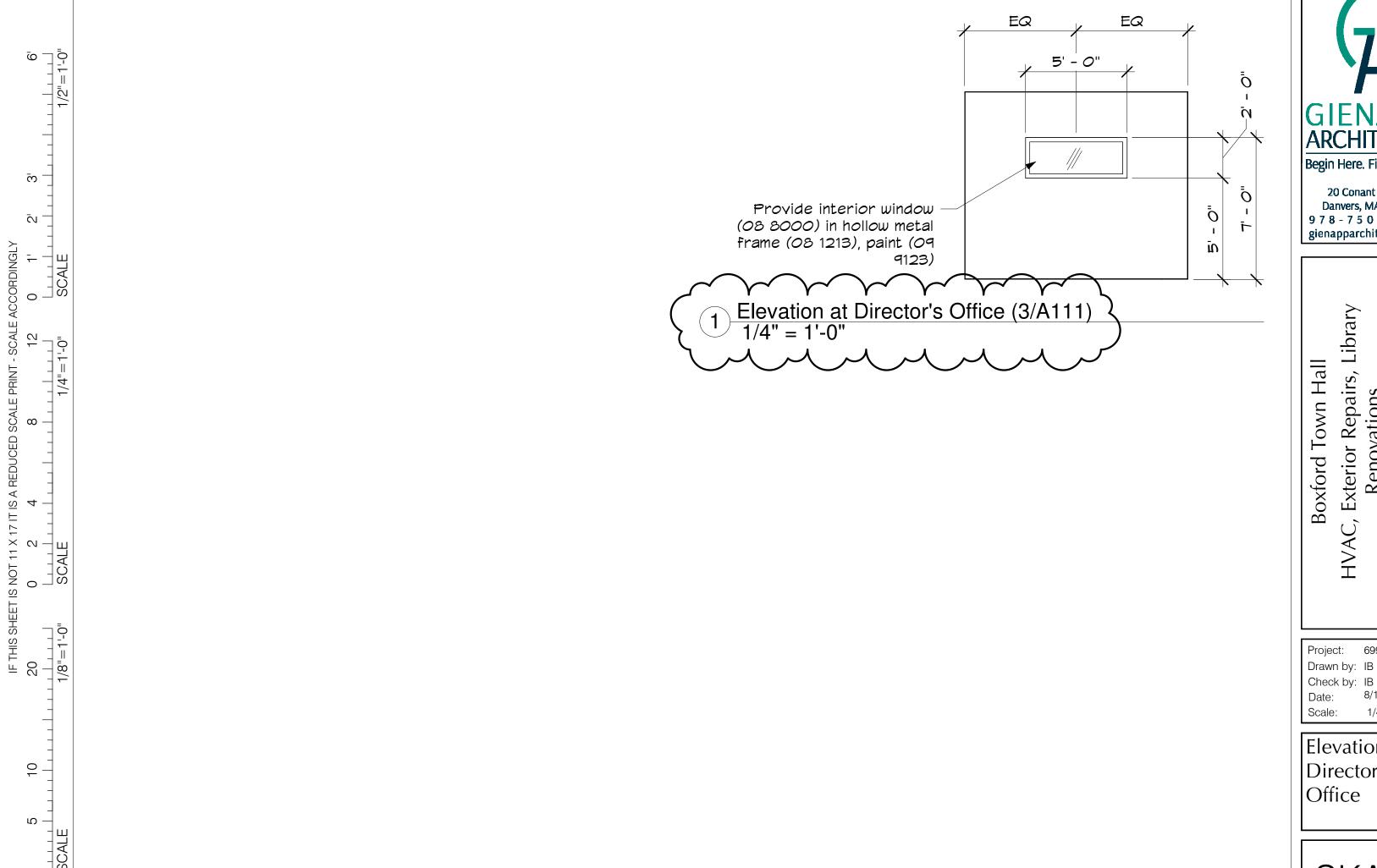
Project: 699.1

Drawn by: IB Check by: IB

Date: 8/12/2020 Scale: 1/4" = 1'-0"

First Floor Plan

> SKA-1 Addendum #1



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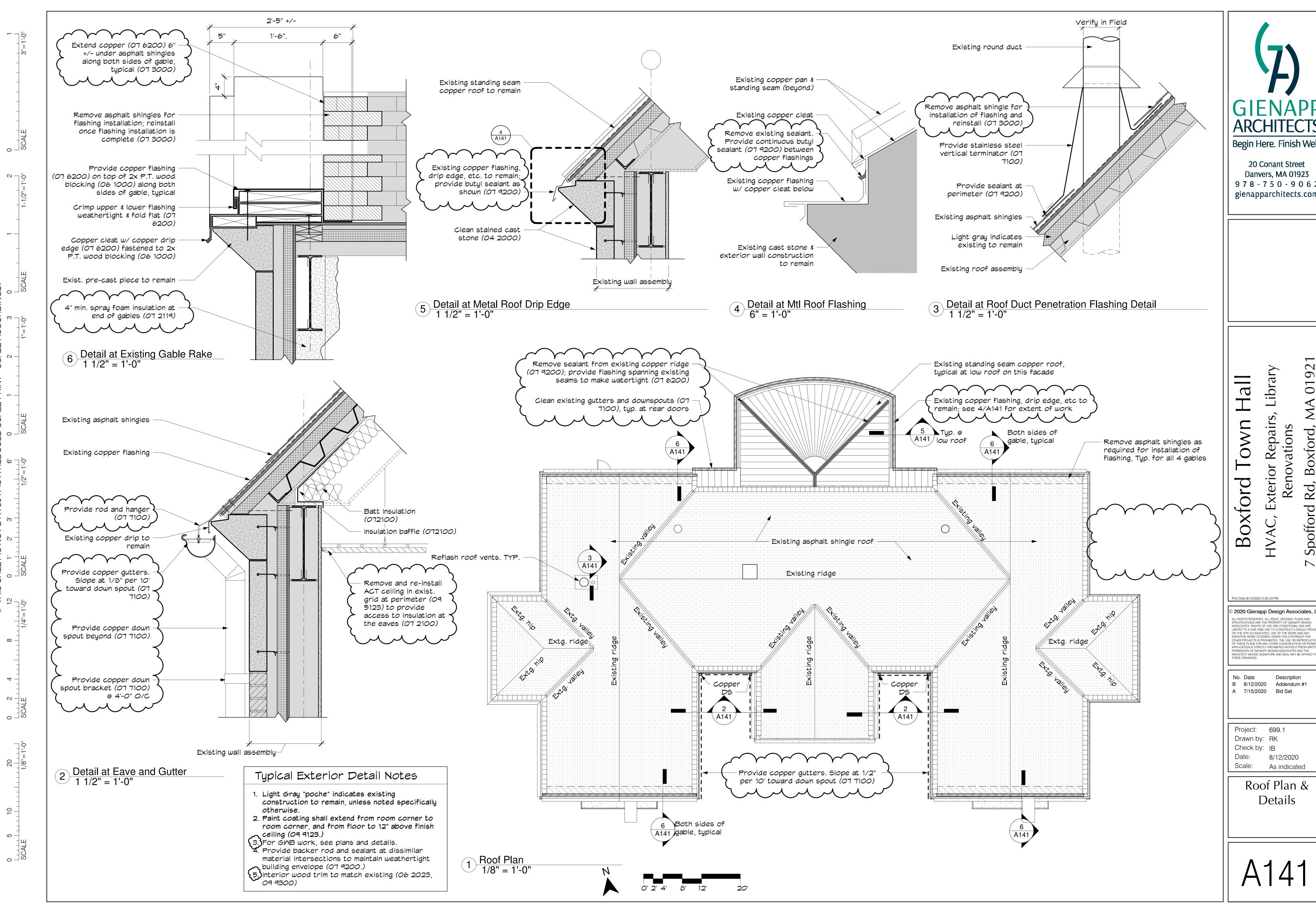
> HVAC, Exterior Repairs, Library Renovations 7 Spofford Rd, Boxford, MA 01921 **Boxford Town Hall**

Elevation at Director's Office

699.1

8/12/2020 1/4" = 1'-0"





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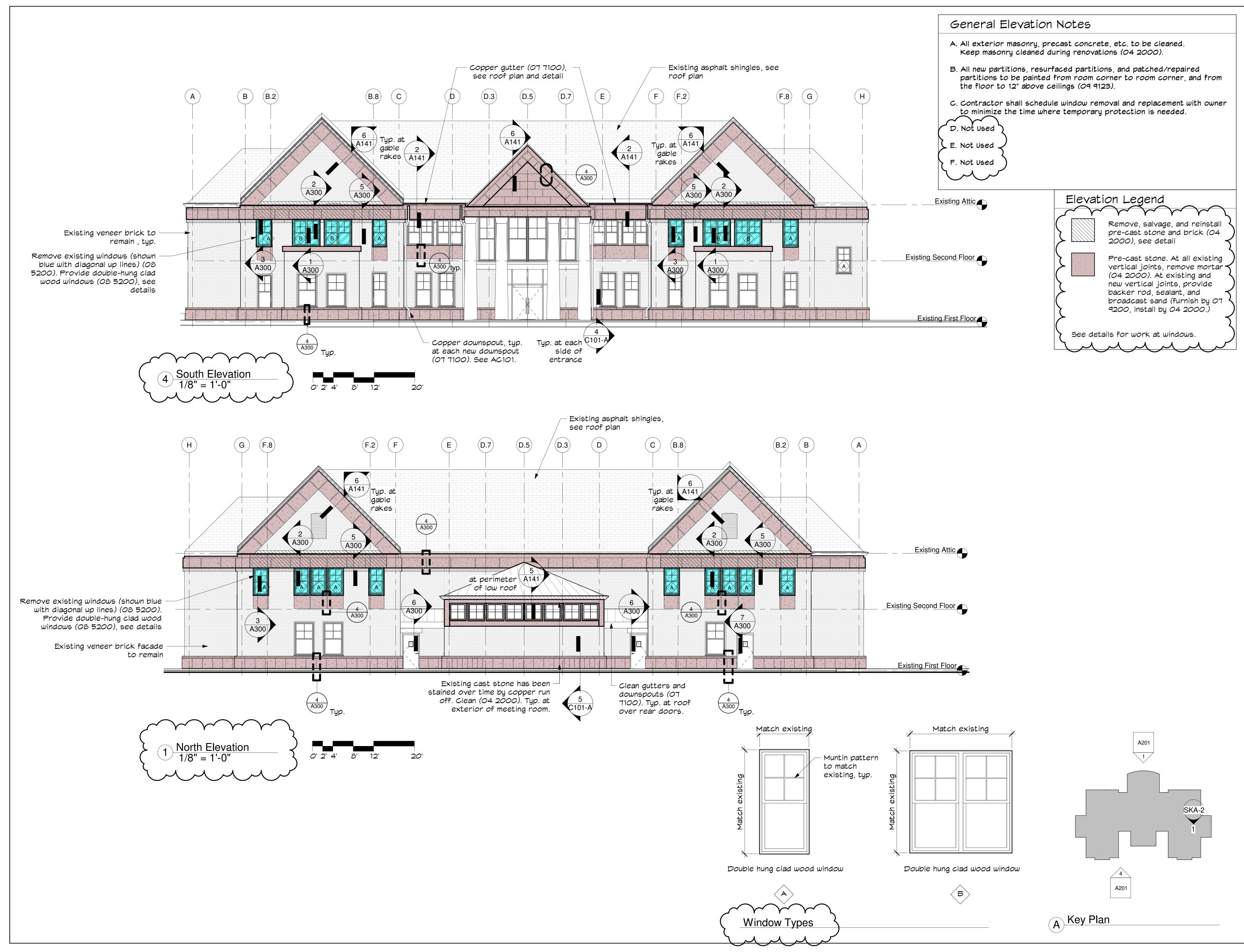
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Description B 8/12/2020 Addendum #1 A 7/15/2020 Bid Set

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Check by: IB
Date: 8/12/2020

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North and

North and South Elevation

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General Elevation Notes

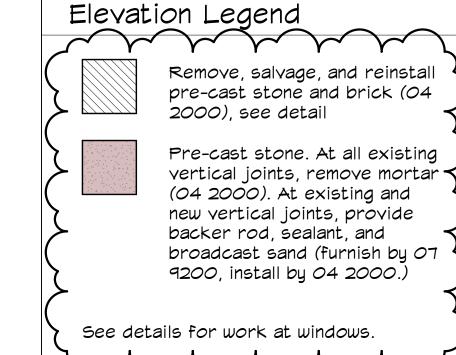
A202 1

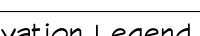
(A) Key Plan

- A. All exterior masonry, precast concrete, etc. to be cleaned. Keep masonry cleaned during renovations (04 2000).
- B. All new partitions, resurfaced partitions, and patched/repaired partitions to be painted from room corner to room corner, and from the floor to 12" above ceilings (09 9123).
- C. Contractor shall schedule window removal and replacement with owner to minimize the time where temporary protection is needed.

D. Not Used

- E. Not Used
- F. Not Used





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Description B 8/12/2020 Addendum #1 A 7/15/2020 Bid Set

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Scale:

Elevation

Library Hall

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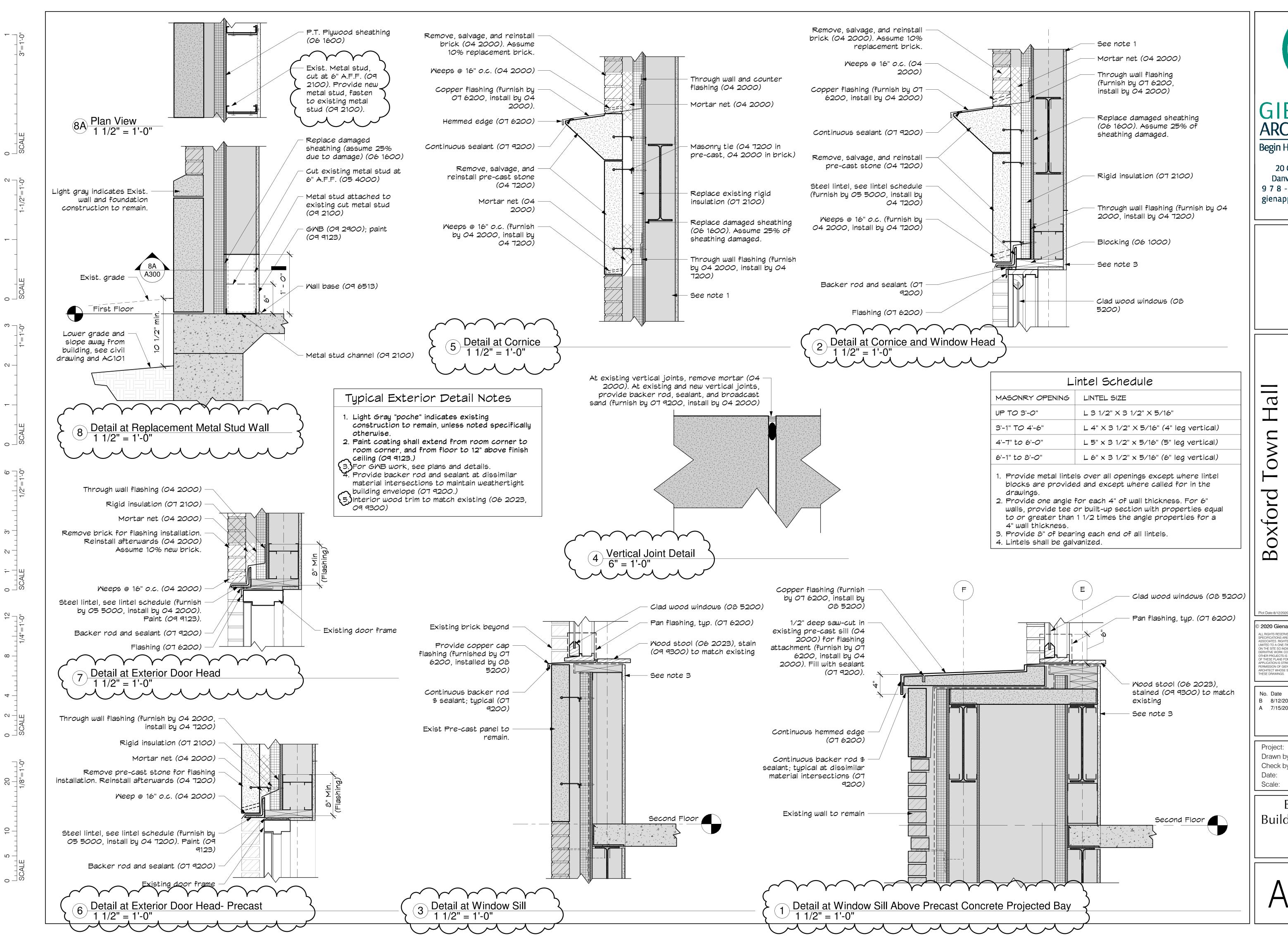
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East and West

As indicated



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Date: 8/12/2020

Exterior Building Details

As indicated

A300

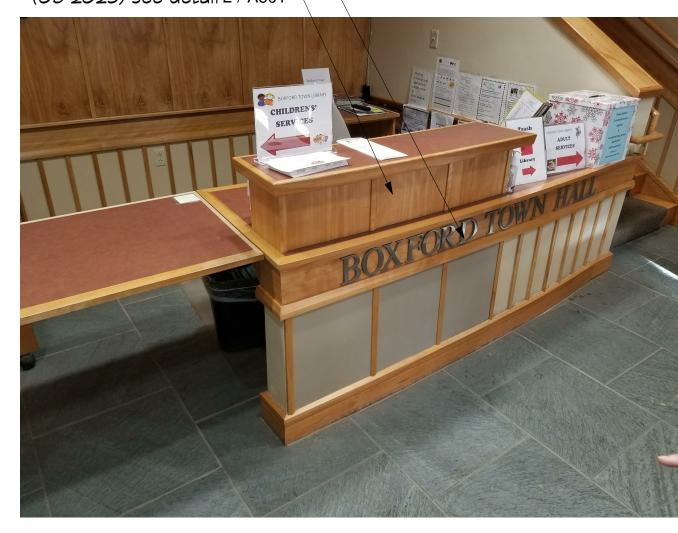
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General Notes

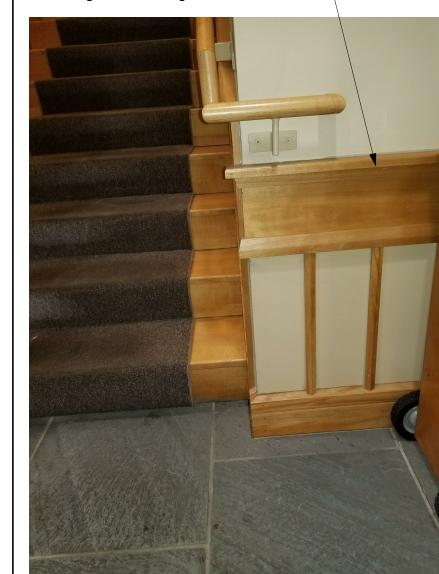
1. Photos are shown for reference to show type of wainscotting to be used at proposed circulation desk.

Match wood paneling at proposed accent wall (06 2023) see detail 2 / A501

Relocate signage (10 1419)



Match existing wood wall ———base, wood trim and wall rail throughout lobby (06 2023)



5 Existing Entry Lobby 1/2" = 1'-0"

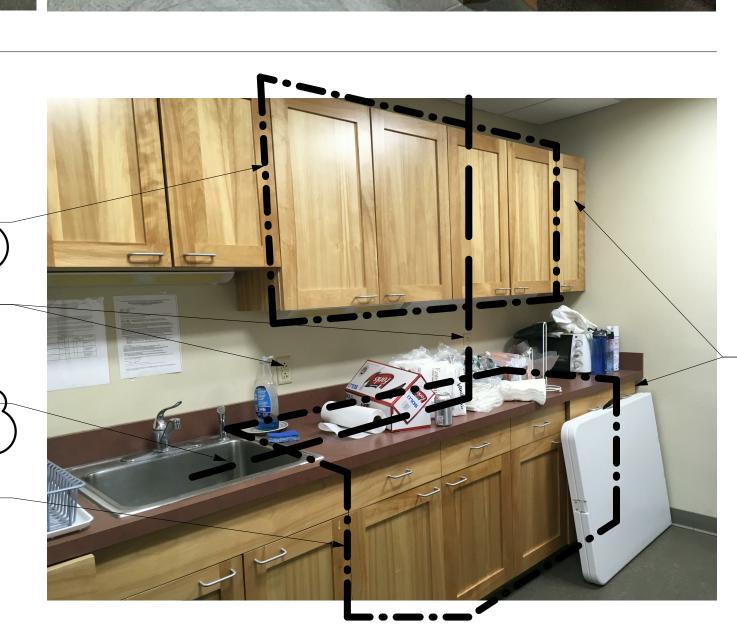
Remove and salvage (2) 36" upper wall cabinets for relocation within break room. See plan 1 / A111(06 4113)

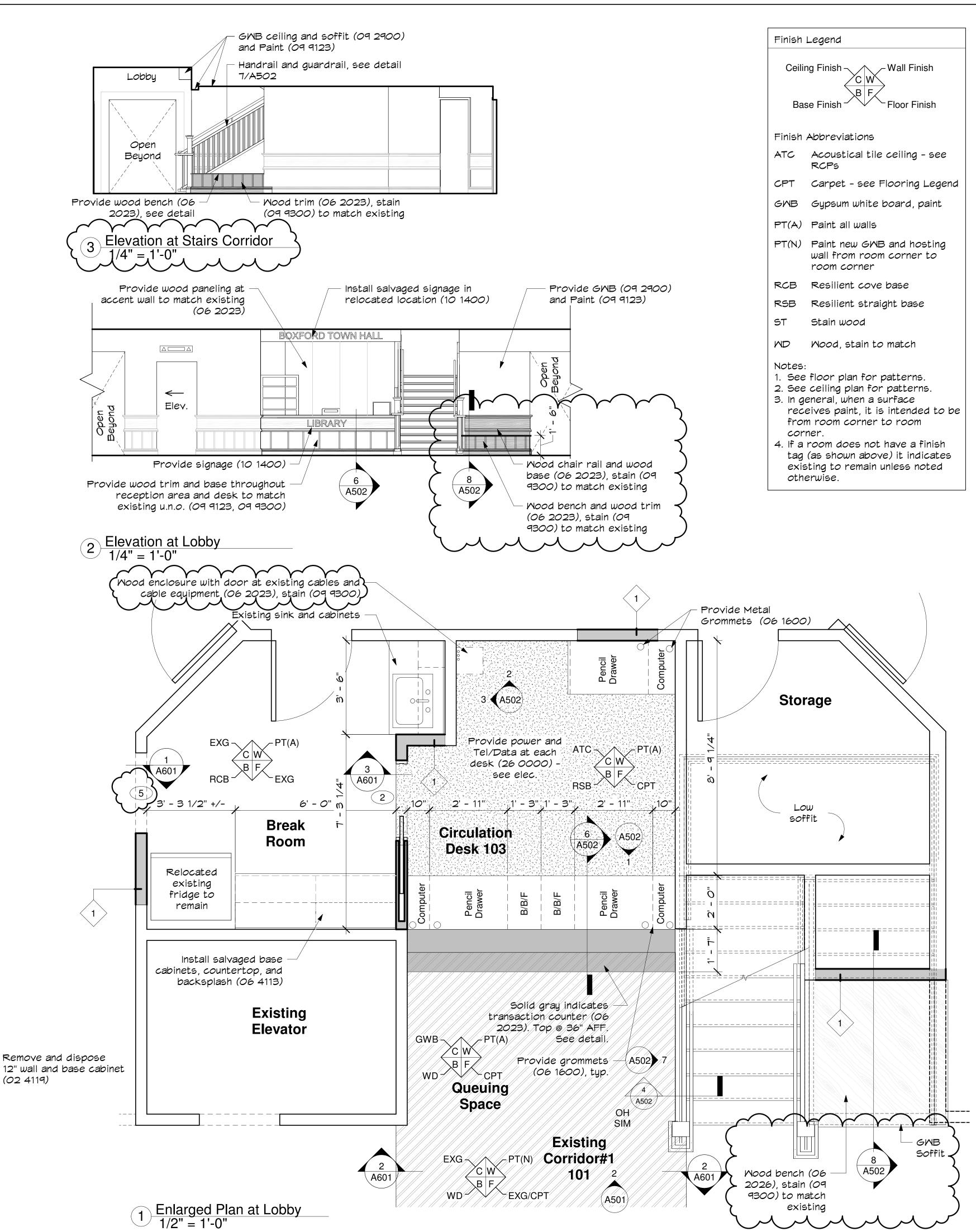
Remove and relocate electrical outlets - see electrical drawings (26 0001).

Dashed line indicates plumbing lines - to kitchenette sink to be relocated - see plumbing drawings (22 0001).

Remove and salvage for relocation base cabinets, countertop, and backsplash (06 4113) see 1 / A501

4 Existing Break Room #107 1/2" = 1'-0"





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Date: 8/12/2020

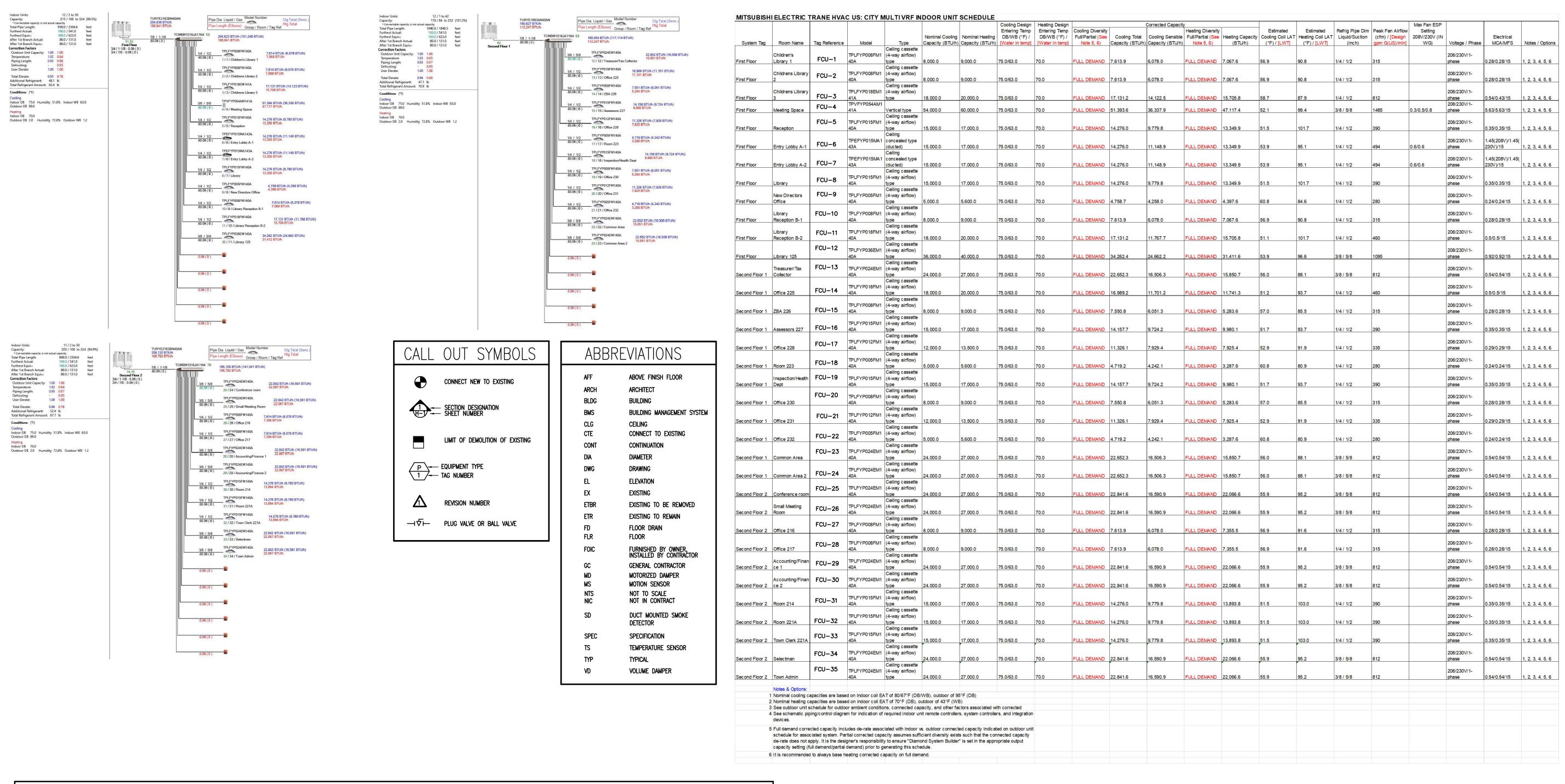
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Elevations and Enlarged Plans

A501





UNIT HEATER SCHEDULE

				HEATE	R POSITION	co	IL	TOTAL	TOTAL		WATE	R COIL		STEAM	V COIL			MOTOR	DATA	١				
TAG	MANUF.	MOD	EL		TYPE	TYF	PΕ	AIRFLOW	ивн	EWT	TD	GPM	WPD	STM	LBS/	NO	HP	AMPS	٧	PH	HZ	ACCESSORIES	REMARKS	S
NO.								CFM		۴	۴		FT	PSI	HR									
UH-1	STERLING	HS-	-60	HOR	IZONTAL	нот	WATER	900	43.6	180	20	4.4	0.17	_	-	1	1/20	1.4	115	1	60	123	<u> </u>	-
UH-2		HS-	-72					1100	40.7			5.3	0.23	-	-									
UH-3														_	_									ī —
UH-4														_	_									
UH-5	+	1	1		¥		,	,	1	1	1	1	1	I -	_	l v	l +	 	1		1	+	•	<i>-</i>

- 1 BUILT-IN FAN CONTROLS
- ② STRAP ON AQUASTAT③ WALL-MOUNTED 24 VOLT THERMOSTAT

HUMIC	HUMIDIFER SCHEDULE														
MARK	ARK OUTPUT KW CFM		CFM	DUCT SIZE	VOLTAGE		MFG		МО	DEL	REMAR	RKS			
HUM-1	55		1100		208,	/3/60	CA	REL	UE02	5XW0U1	SEE NOT	ES BELOW			
HUM-2	32		900						UE01	5XW0U1					
HUM-3	•	•	V					Y	,		,				

HUMIDIFIERS SHALL EACH BE PROVIDED WITH 10 FOOT STEAM HOSE, DISTRIBUTION PIPES, 4 FOOT EXTRA STEAM HOSE, 26 FOOT CONDENSATE HOSE, 1 SPARE CYLINDERS, 1 INLET ADAPTER, 1 AIR PROVING SWITCH, HUMIDITY CONTROL SENSOR, 1 DUCT MOUNTED HIGH LIMIT HUMIDITY SENSOR, AND NETWORK INTERFACE. HUM-1 SHALL BE SUPPLIED WITH 2 DISTRIBUTION TUBES AND CAREL "Y" KIT (UEKY000000) PIPE ADAPTER.

MITSUBISHI	ELECTRIC	TRANE HVAC	US: CITY M	IULTI VRF O	JTDOOR UN	IT SCHEDUL	.E

6 Provide 24" stand, Snow/Hail kit and Panel heater kit.

											Electrical-Per Module				
							Design Cooling	Design Heating	Corrected	Corrected		208/230	or [460V]		
					Nominal Cooling	Nominal Heating	Outdoor Temp	Outdoor Temp	Cooling Total	Heating Capacity		MCA 208/230 or			
System Tag	Tag Reference	M-Net Address	Model Number	Modules	Capacity (BTU/h)	Capacity (BTU/h)	DB (°F)	WB (°F)	Capacity (BTU/h)	(BTU/h)	Voltage / Phase	[460V]	RFS	MOCP	Notes / Options
			TURYE2163BN4					1			208/230V / 3-				
First Floor	ACCU-1	51, 52	0AN	P120, P96	216,000.0	243,000.0	89.0	1.2	204,835.8	188,940.7	phase 3-wire	41/38, 31/29	60/60, 45/45	60/60, 45/45	1, 2, 3, 4, 5
			TURYE1683AN4								208/230V / 3-				
Second Floor 1	ACCU-2	62	0AN	P168	168,000.0	188,000.0	89.0	1.2	160,627.2	112,246.7	phase 3-wire	57/53	70/70	90/80	1, 2, 3, 4, 5
			TURYE2163BN4								208/230V / 3-				
Second Floor 2	ACCU-3	74, 75	0AN	P120, P96	216,000.0	243,000.0	89.0	1.2	208,132.4	188,791.9	phase 3-wire	41/38, 31/29	60/60, 45/45	60/60, 45/45	1, 2, 3, 4, 5
	Notes & Options:														
,	1 Nominal cooling of	apacities are base	d on indoor coil EA	T of 80/67°F (DB/	WB), outdoor of 98	5°F (DB)									
	2 Nominal heating of	apacities are base	ed on indoor coil EA	T of 70°F (DB), or	utdoor of 43°F (WI	В)									
	3 Efficiency values	for EER, IEER, CO	OP are based on A	HRI 1230 test meth	od for mixture of d	ucted & non-ducte	d indoor units.								
	4 For systems with	multiple modules, r	efrigerant pipe dim	ensions indicate to	tal system combine	ed piping downstre	am of module								
	5 Added field chard	e listed is in addition	on to factory charg	e, this must be upo	lated based upon f	inal as-built piping	layout.								

VRF HEAT I	RECOVERY	BRANCH CIF	RCUIT CONT	ROLLER					
				Type (double /		Connected			
System Tag	Tag Reference	M-Net Address	Model Number	Main / Sub)	Number of Ports	Capacity to BC	Voltage / Phase	MCA 208/230	Notes / Options
			TCMBM1016JA1				208/230V/1-		
First Floor		53	1N4	Main	16	215,000.0	phase		1, 2
			TCMBM1016JA1				208/230V/1-		
Second Floor 1		63	1N4	Main	16	170,000.0	phase		1, 2
			TCMBM1016JA1				208/230V/1-		
Second Floor 2		76	1N4	Main	16	205,000.0	phase		1, 2
	Notes & Options:								
1	Include Diamondb	ack Ball Valves BV	/-Series, 700PSIG	working pressure,	full port, 410A rate	d.			

1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.

2 For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.





20 Conant Street
Danvers, MA 01923
9 7 8 - 7 5 0 - 9 0 6 2
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HVAC, Exterior Repairs, Libr Renovations

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Date Description

Project: 699.1
Drawn by: TMM
Check by: LTC
Date: 07/15/2020
Scale: AS NOTED

HVAC SCHEDULES

H-0

 CB
 CIRC NO.
 RVA LOAD
 CIRC NO.
 LOAD DESCRIPTION LOAD DESCRIPTION 16 15A/3P SPARE 20 20A/1P EXISTING 22 20A/1P EXISTING 24 20A/1P EXISTING 26 20A/1P EXISTING 28 20A/1P EXISTING FCU-4 30 20A/1P EXISTING PHASE A 6.96 kVA TOTAL LOAD 21.08 kVA NOTES: PHASE B 7.06 kVA PHASE C 7.06 kVA * - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED

EXISTING PANEL 'MP2A', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND

MAIN: 225A M.C.B.

MOUNTING: SURFACE

INTERRUPTING CAPACITY: 10,000 AMPS RMS SYM

INTERRUPTING CAPACITY:	10,000	AMPS I	RMS SY	M		MAI	N: 225A	M.C.B.		MC	OUNTING: SURFACE
LOAD DESCRIPTION	СВ	CIRC			kVA	LOAD			CIRC	СВ	LOAD DESCRIPTION
EOAD DESCRIPTION	65	NO.	Α	В	С	Α	В	С	NO.		EOAD DESCRIPTION
BI-1, BI-2, BI-3, BI-4	20A/1P	1	0.50			0.20			2	20A/2D	BC-2 AND BC-3
ATTIC RECEPTACLES	20A/1P	3		0.36			0.20]	4		
SPARE	20A/1P	5	1						6	20A/1P	SPARE
		7							8		
SPARE	30A/3P	9							10	30A/3P	SPARE
		11		,			,		12		
EXISTING	20A/1P	13							14	20A/1P	EXISTING
EXISTING	20A/1P	15]	16	20A/1P	EXISTING
	20A/1P	17							18		SPACE
EXISTING	20A/1P	19				0.25			20	201/20	FCU-32,33,34,35
EXISTING	20A/1P	21					0.25]	22	200/21	1 00-32,33,34,33
FCU-18,19,20,21,22	20A/2P	23	1		0.15	1		0.25	24	201/20	FCU-28,29,30,31
1 00-10, 19,20,21,22	200/21	25	0.15			0.25			26	200/21	1 00-20,29,30,31
FCU-13,14,15,16,17	20A/2P	27		0.20			0.25]	28	204/20	FCU-23,24,25,26,27
00-13, 14, 13, 10, 17	207/21	29	1		0.20			0.25	30	20/12/	1 00-23,24,23,20,27
PHASE A 1.35 kVA				TO ⁻	TAL LOA	AD 3.46	kVA			,	NOTES:
PHASE B 1.26 kVA											
PHASE C 0.85 kVA											

* - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED

				M			N: 100A				DUNTING: SURFACE
LOAD DESCRIPTION	СВ	CIRC				LOAD			CIRC	СВ	LOAD DESCRIPTION
EOAD BECOM HON	"	NO.	Α	В	С	Α	В	С	NO.	"	EGAB BEGGIAN NON
EXISTING	20A/1P	43			•			•	44	20A/1P	EXISTING
EXISTING	20A/1P	45]				46		EXISTING
EXISTING	20A/1P	47				1			48	20A/1P	EXISTING
EXISTING	20A/1P	49							50	20A/1P	EXISTING
EXISTING	20A/1P	51]]	52	20A/1P	EXISTING
EXISTING	20A/1P	53							54	20A/1P	EXISTING
EXISTING	20A/1P	55		1			1		56	20A/1P	EXISTING
EXISTING	20A/1P	57			1				58	20A/1P	EXISTING
EXISTING	20A/1P	59				1			60	20A/1P	EXISTING
EXISTING	20A/1P	61		1]		62	20A/1P	EXISTING
EXISTING	20A/1P	63			1				64	20A/1P	SPARE
ACCU 4	204/20	65			1.25	1			66	20A/1P	EXISTING
ACCU-4	20A/2P	67	1.25]]		68	20A/1P	SPARE
ACCU 5	204/20	69		1.25]				70	20A/1P	SPARE
ACCU-5	20A/2P	71			1.25	1			72	20A/1P	SPARE
DO 4	204/65	73	0.10]		1.25]		74	004/07	100110
BC-1	20A/2P	75		0.10]		1.25	1	76	20A/2P	ACCU-6
ECU 7 0 0 40 44 40	204/25	77			0.39	1			78	20A/1P	EXISTING
FCU-7,8,9,10,11,12	20A/2P	79	0.39]			1		80	20A/1P	EXISTING
FCU 4.2.2.5.0	204/25	81		0.30]			1	82	20A/1P	EXISTING
FCU-1,2,3,5,6	20A/2P	83			0.30	1			84	20A/1P	EXISTING
PHASE A 2.99 kVA				TO:	TAL LOA		L\/A				NOTES:
				10	IAL LUA	4D 9.08	KVA				NUIES.
PHASE B 2.90 kVA PHASE C 3.19 kVA											

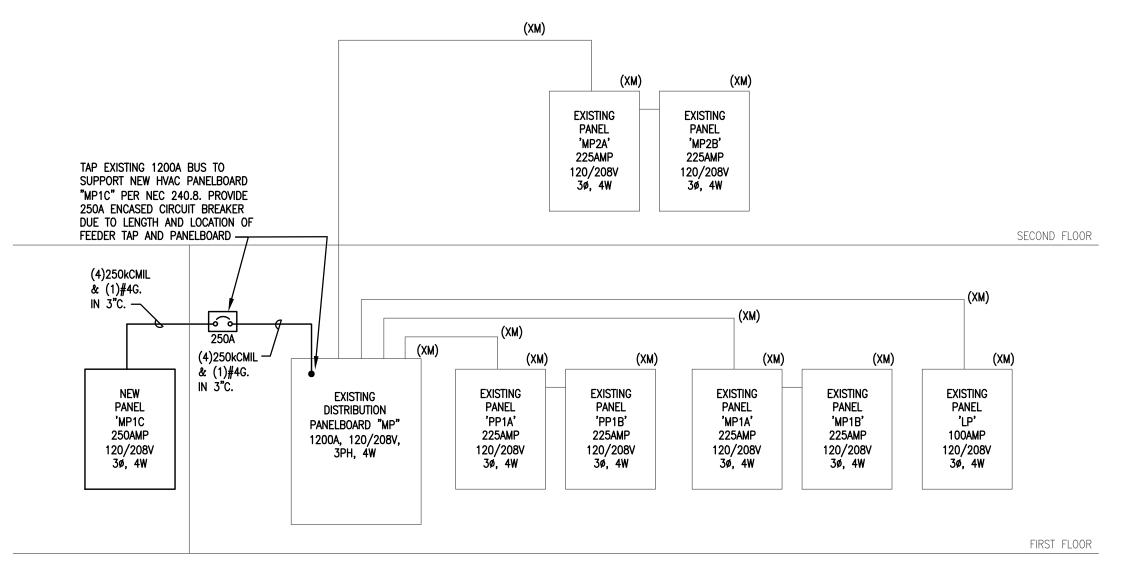
* - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED

INTERRUPTING CAPACITY:	10,000	AMPS I	RMS SY	M		MAI	N: 250A	M.C.B.	•	MC	DUNTING: SURFACE
LOAD DESCRIPTION	СВ	CIRC			kVA	LOAD			CIRC	СВ	LOAD DESCRIPTION
EOAD BEOORII IION		NO.	Α	В	С	Α	В	С	NO.		EOAD DESCRIPTION
		1	4.92		_	4.92		_	2		
ACCU-1 (SECTION-1)	60A/3P			4.92			4.92			60A/3P	ACCU-3 (SECTION-1)
		5		7	4.92		1	4.92	6		
		7	3.72		,	3.72		1	8		
ACCU-1 (SECTION-2)	60A/3P	-		3.72	0.70		3.72	0.70		60A/3P	ACCU-3 (SECTION-2)
		11	0.04	1	3.72		1	3.72	12		00405
40011.0	004/00	13	6.84	0.04	1			1	14		SPACE
ACCU-2	90A/3P	15 17		6.84	0.04				16		SPACE SPACE
SPACE		17		1	6.84		1		18		SPACE
SPACE		21			1			1	22		SPACE
SPACE		23							24		SPACE
SPACE		25		1			1		26		SPACE
EXTERIOR RECEPTACLE	20A/1P			0.18	1			1	28		SPACE
UH-1	20A/1P			0.10	0.20				30		SPACE
	1=== =			TOT		D 70 74	LVA	<u> </u>	1	L	1
PHASE A 24.12 kVA				101	AL LOA	D /2./4	KVA				NOTES:
PHASE B 24.30 kVA PHASE C 24.32 kVA											



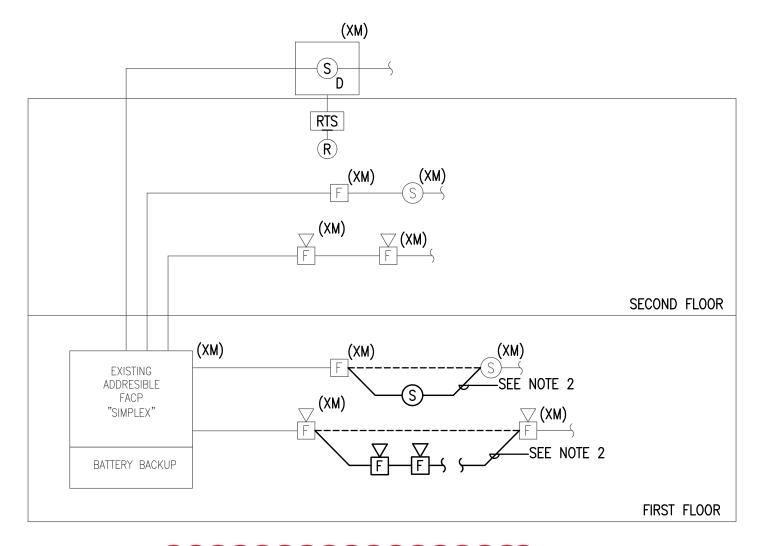
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HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION



PARTIAL POWER RISER DIAGRAM N.T.S.

	LIGHTII	NG FIXTURE SCHEDULE				
FIXTURE	DECODIDATION	MANUFACTURER AND		LAMP	S	
TYPE	DESCRIPTION	CATALOG NUMBER	No.	WATTAGE	TYPE	VOLTAGE
Α	2X2 LED BASKET TYPE GRID FIXTURE	LITHONIA 2BLT2-33L-ADP-MVOLT-EZ1-LP835	-	26	LED	MVOLT
AE	2X2 LED BASKET TYPE GRID FIXTURE WITH EMERGENCY	LITHONIA 2BLT2-33L-ADP-MVOLT-EZ1-LP835-EL14L	_	26	LED	MVOLT
В	4" LED DOWNLIGHT (W/WHITE BAFFLE)	LITHONIA LDN4-30/15-L04-WR-MVOLT-EZ1		12	LED	MVOLT
С	6" LED DOWNLIGHT (W/WHITE BAFFLE)	LITHONIA LDN6-30/15-L04-WR-MVOLT-EZ1	-	12	LED	MVOLT
⊗፟፟፟፟	LED EXIT SIGN, SINGLE FACE, BATTERY BACK-UP, CEILING OR WALL MOUNTED	LITHONIA LQM-S-W-3R-120/277-ELN	-	4	LED	120/277
101	LED EXIT SIGN, DOUBLE FACE, BATTERY BACK-UP, CEILING OR WALL MOUNTED	LITHONIA LQM-S-W-3R-120/277-ELN	_	4	LED	120/277



RISER DIAGRAM NOTES:

1. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.

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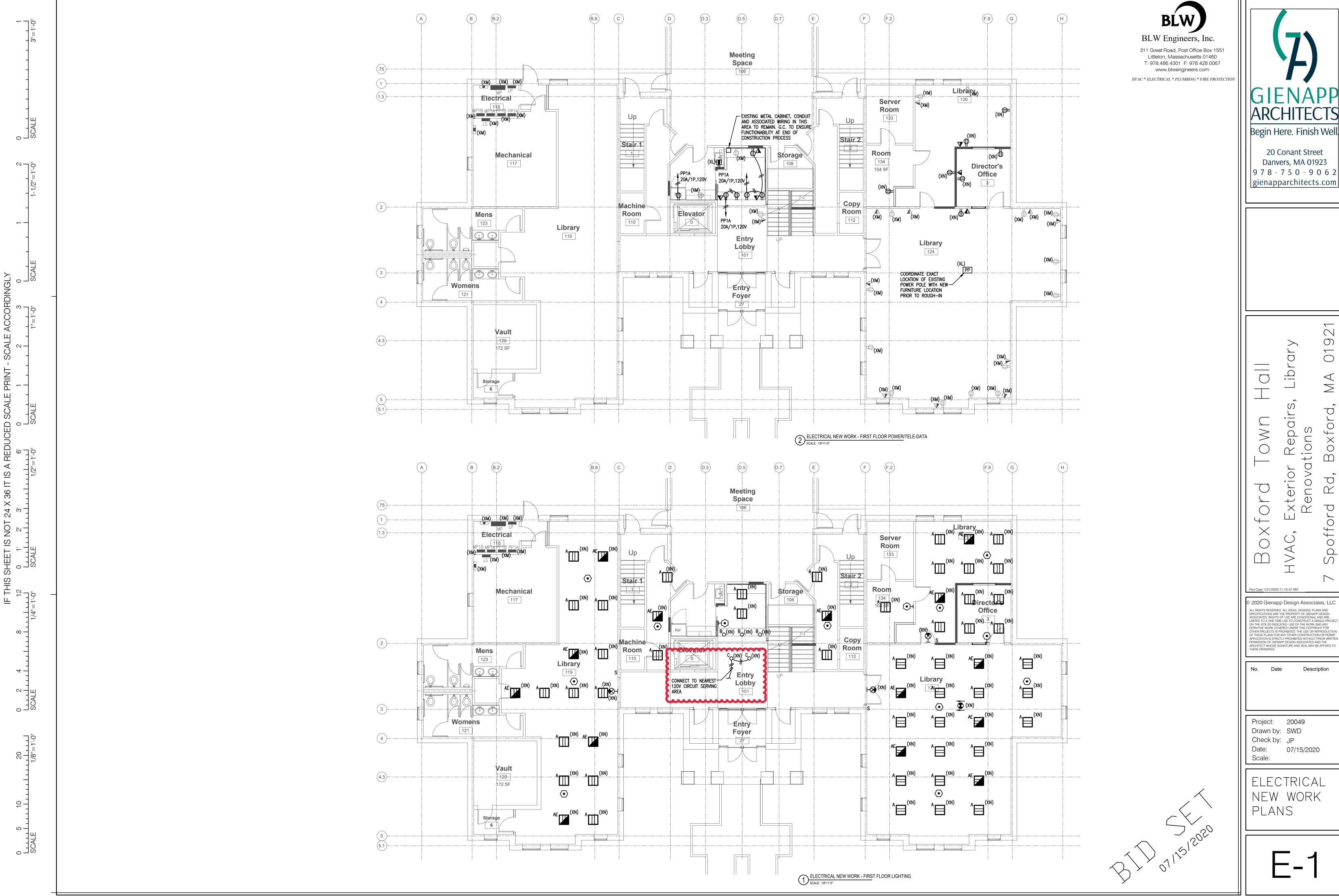
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Description

Project: 20049 Drawn by: SWD Check by: JP Date: 07/15/2020

Scale:

RISER



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Date Description

Project: 20049 Drawn by: SWD Check by: JP Date: 07/15/2020

ELECTRICAL NEW WORK PLANS

Boxford Town Hall

8/6/2020



Gienapp Architects

Prepared by: IB

Please note: due to COVID, business cards were collected instead of passing around a sign-in sheet. The following is a list of business cards received.

Pre-Bid Walkthrough Sign-In											
Name	Company	Email	Phone Number								
Jared Burhoe	AB&R Architectural Building & Restoration	jared@abandr.net	781-395-2600								
Greg Campbell	Campbell Construction Group, LLC	greg@cambellgroupllc.com	978-532-1998								
Michael Wysocki	Fraser Engineering	mwysocki@fraserengineering.com	617-332-3700								
James E. Marshall	Jupiter Electric, Inc.	jmjupiterelectric@comcast.net	978-499-7776								
Nicholas Lambrianidis	Lambrian Construction	nlambrianidis@lambrian.com	781-461-1100								
Michael A. Galasso	NEL Corporation	michaelg@nelcorporation.com	978-777-2085								
Estimating Department	Northern Contracting Corp.	ncc@northerncontracting.com	781-821-4200								
Richard (Nick) Nichols	Paul J. Rogan Co., Inc.	nickn@pauljroganco.com	781-843-1900								
Karl Gonsiorowski	Systems Electrical Services	karl@systemselectricalservices.com	617-466-0920								