CONTRACT DOCUMENTS

AND

TECHNICAL SPECIFICATIONS

FOR

HVAC UPGRADES

&

INTERIOR RENOVATIONS

&

GREENWOOD LAKE PUBLIC LIBRARY

NYSED# 44-21-11-02-6-008-005

Greenwood Lake Public Library 79 Waterstone Road Greenwood Lake, NY 10925

Contact: Ms. Jill Cronin, Director

LAN Job #4.1361.05 April 1, 2021

Michael J. McGovern, RA NYS #022257 1.0 <u>General:</u> The original contract documents issued <u>March 10, 2021</u> for this project are hereby amended as noted in this addendum which shall become part of said contract documents, as if originally included therein. Bidders must acknowledge receipt of this addendum and all other addenda on the proposal form when submitting proposals. In case any bidder fails to acknowledge receipt of addenda, his proposal will nevertheless be construed as though it has been received, acknowledged, and the submission of his proposal shall constitute acknowledgment by the bidder of the receipt of same.

Note that the bid due date and time is <u>Friday, April 9, 2021 @ 2:00 p.m.</u> at the Greenwood Lake Public Library, 79 Waterstone Road, Greenwood Lake, NY 10925.

2.0	Amendment to Application:	
Form	Comment	
N/A		
3.0	Amendments to Specification	<u>s:</u>
Section No.	Page No.	Addendum Requirements
Front End	d BA-1	Revised Notice to Bidders
011000	2	Verbiage for ADD ALTERNATE #1 updated to include the removal of the furnace located in the basement service the area of Staff Workroom (112) and adjacent areas to be included in the ADD ALTERNATE #1 price.
087111	6	Updates to Hardware Set #5 to include automatic door closer and associated controls.
4.0	Amendments to Drawings:	
Drawing No.	Addendum Requirem	ents
A2.01	Added a note regarding	g the scope amendment to exterior entry door D01.
M1.01	Clarification to scope o	f work included in base bid vs add alternates.
M6.01	Clarification to scope o	f work included in base bid vs add alternates.
5.0	Requests for Information (RF	<u>ls):</u>
No.	Comment / Response	
1	does not have A	roof plan for this phase has ACC-IT included. Schedule on M6.01 CC-IT included in this contract. Please advise as to whether the lation of ACC-IT should be included.

5.0 <u>Requests for Information (RFIs): (continued)</u>

No. Comment / Response

Response: ACC-IT is not included in this scope of work.

- 2 Comment: There is no information on the drawings or in the specs regarding the fire alarm. Who is the manufacturer? Is there a specific manufacturer that needs to be used? Has anyone been maintaining it or working on it?
 - Response: The current fire alarm vendor is Hi-Tech Security Systems, Inc. (info@highteckalarms.com, 845-357-7003) who purchased the former vendor, Hidden Security Systems (Peter Pecola, 845-527-4894). The Fire Alarm Control Panel is manufactured by Silent Knight. Coordinate with the current fire alarm vendor for access and programming. All equipment shall be per the manufacturer's requirements and UL cross listed for use with the Silent Knight panel.
- 3 Comment: There are no specs or notes regarding the auto operator at the new entrance. Please advise.
 - Response: Hardware Schedule specification section 087111 has been updated to include the information regarding the automatic door closer. The exterior entry door (D01) at Foyer (104) has already been replaced as part of a previous phase of construction. A surface mounted door closer has been provided. A new closer per updated spec section 087111 will need to be provided at the exterior entry door and connected to the new auto operator system.
- 4 Comment: There are no specs or notes for the security film on the door. Please advise.

Response: Provide 3M Safety S70 (7 mil) single-ply film at interior of face of all glazing on door & sidelites of D02 & window W1.

5 Comment: On A6.01, there's a note at window type R that calls for 1/4" clear tempered glass. The detail notes, 1 & 2, call for fire rated glass. Please clarify which is required.

Response: Fire rated glazing is not required for this application.

6.0 Clarifications:

No. Clarification

- 1 The furnace in the basement that serves the Media 2 and Staff Work room is only to be demolished if ADD ALTERNATE #1 is awarded. Demolition of this furnace and all associated ductwork, conduit, floor registers, etc. is not considered part of the base bid scope.
- 2 All architectural (new partitions, flooring, doors, windows, etc.) work associated with Director's Office 127 as shown on drawing A2.01 is not part of this phase of construction and is considered Not In Contract. Additionally, the associated electrical work shown in the <u>new</u> partitions at Director's Office 127 are also considered Not In Contract. Mechanical work associated with this area <u>is</u> considered part of this phase of construction, and that work shall be included in the base bid price.
- 3 Contractors shall be required to trench the existing concrete slab as necessary for installation of the new power & data receptacles at the new circulation desk. Coordinate location of trenching with new Owner supplied circulation desk. Contractor to patch slab with new concrete to level of adjacent concrete sub-floor and cover over with new scheduled VCT flooring.

6.0 <u>Clarifications: (continued)</u>

No. Clarification

- 4 There is no duct cleaning required on this project.
- 5 New auto door operators shall be provided and installed for both doors D01 & D02. The contractor shall remove the existing surface mounted closer on door D01 and return to owner. The contractor shall connect both new auto operators to new push buttons per drawing E2.02. Refer to spec section 087111 & comment/response #3 on this addendum for additional information.

END OF ADDENDUM NO. 1

Attachment: #1 – Revised Notice to Bidders

- #2 Drawings (A2.01, M1.01 & M6.01)
- #3 Specifications (011000 & 087111)

GREENWOOD LAKE PUBLIC LIBRARY

NOTICE TO BIDDERS FOR:

PUBLIC NOTICE is hereby given that sealed bids shall be received by the Board of Trustees of the Greenwood Lake Public Library, Greenwood Lake, New York 10925 for the following bid package:

PHASE 2 – HVAC UPGRADES & INTERIOR RENOVATIONS NYSED# 44-21-11-02-6-008-005

See the Bid Documents for a further description of the work.

Bid proposals shall be received by **Friday, April 9, 2021** by mail or in person, at the Greenwood Lake Public Library, 79 Waterstone Road, Greenwood Lake, New York 10925 until <u>2:00 p.m.</u> prevailing time at which time they shall be publicly opened and read aloud. All envelopes containing bids shall bear on the face of the sealed envelope the words "Phase 2 – HVAC UPGRADES & INTERIOR **RENOVATIONS –** <u>April 9, 2021</u>". No Bids shall be accepted after <u>2:00 p.m. on Friday, April 9, 2021</u>.

Staff will be available to accept hand delivered bids between the hours of 9:00 a.m. and 2:00 p.m. on April 9, 2021. Due to the current COVID-19 pandemic, Library access is restricted, and nonessential individuals will not be permitted inside. Bids will be publicly opened and read aloud at 2:00 p.m. via livestream on Zoom. A link to the livestream will be provided to bidders via email, after the purchase of a bid package.

The plans and specifications may be examined/obtained at REV Ventures, Inc., 330 Route 17A, Suite 3, Goshen, NY 10924, or at their website <u>www.usinglesspaper.com</u> or by phone (845) 651-3845 between 9:00 a.m. and 5:00 p.m. Monday through Friday beginning on <u>Wednesday, March 10, 2021</u>. A bid deposit of \$100 payable to Greenwood Lake Public Library by check or money order is required to obtain printed documents. The deposit is refundable if the bid documents are returned in good condition within 30 days after the bid date. Complete digital sets of Bidding Documents, drawings and specifications may also be viewed online with a free user account or downloaded for a non-refundable fee of Forty-Nine (\$49.00) dollars at <u>www.usinglesspaper.com</u> under public projects.

Please note that all bidders must obtain bid packages from REV Ventures, Inc. or at their website <u>www.usinglesspaper.com</u> in order to submit a bid for this project. REV Ventures, Inc. or their webiste <u>www.usinglesspaper.com</u> is the <u>ONLY</u> authorized distributor of the bid package and all bidders must be on their bidders list.

All bid addenda will be transmitted to registered plan holders via email and will be available at <u>www.usinglesspaper.com</u>. Plan holders who have paid for hard copies of the bid documents will need to make the determination if hard copies of the addenda are required for their use, and coordinate directly with Rev. Ventures Inc. for hard copies of addenda to be issued. There will be no charge for registered plan holders to obtain hard copies of the bid addenda.

All technical questions, comments, and inquiries should be directed to LAN Associates (Attention Mr. Taylor Thomas, Assoc. AIA at telephone number 845-615-0350, fax number 845-615-0351 or email taylor.thomas@lanassociates.com).

There will be a **pre-bid walk-through on Tuesday, March 30, 2021 at 10:00 a.m.** at **the Greenwood Lake Public Library, 79 Waterstone Road, Greenwood Lake, NY 10925**. Bidders are urged to attend the pre-bid meeting. Knowledge of the site is crucial to obtain a proper understanding of the Work. Due to the COVID-19 pandemic, face masks will be required during the pre-bid walk-through.

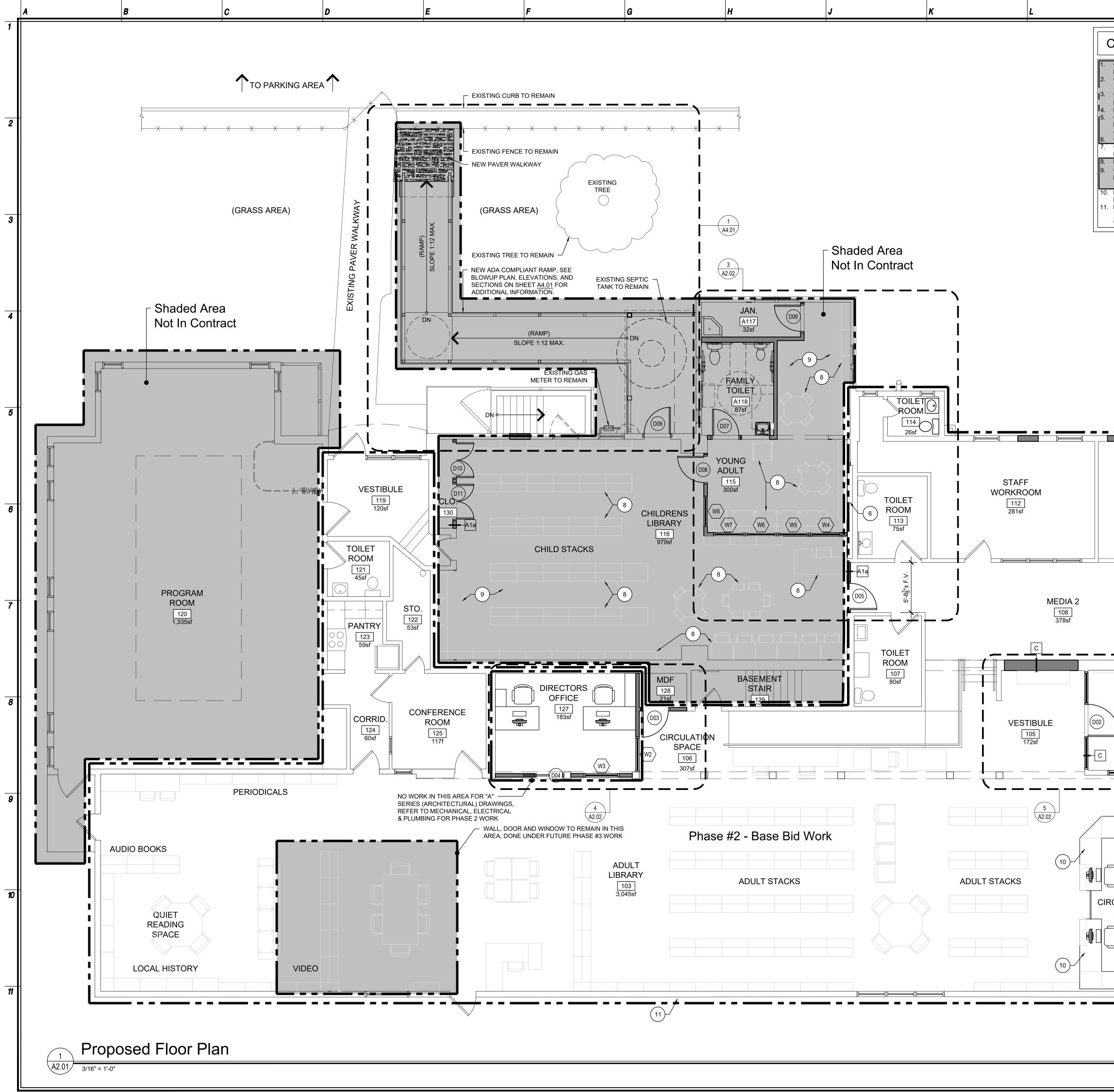
All laborers, workers and mechanics working on the site of this project must be certified as having successfully completed the OSHA 10-hour construction safety and health course.

Greenwood Lake Public Library/Phase 2 -HVAC Upgrades & Interior Renovations @ Greenwood Lake Public Library NYSED# 44-21-11-02-6-008-005 BA-1 ADD NO. 1

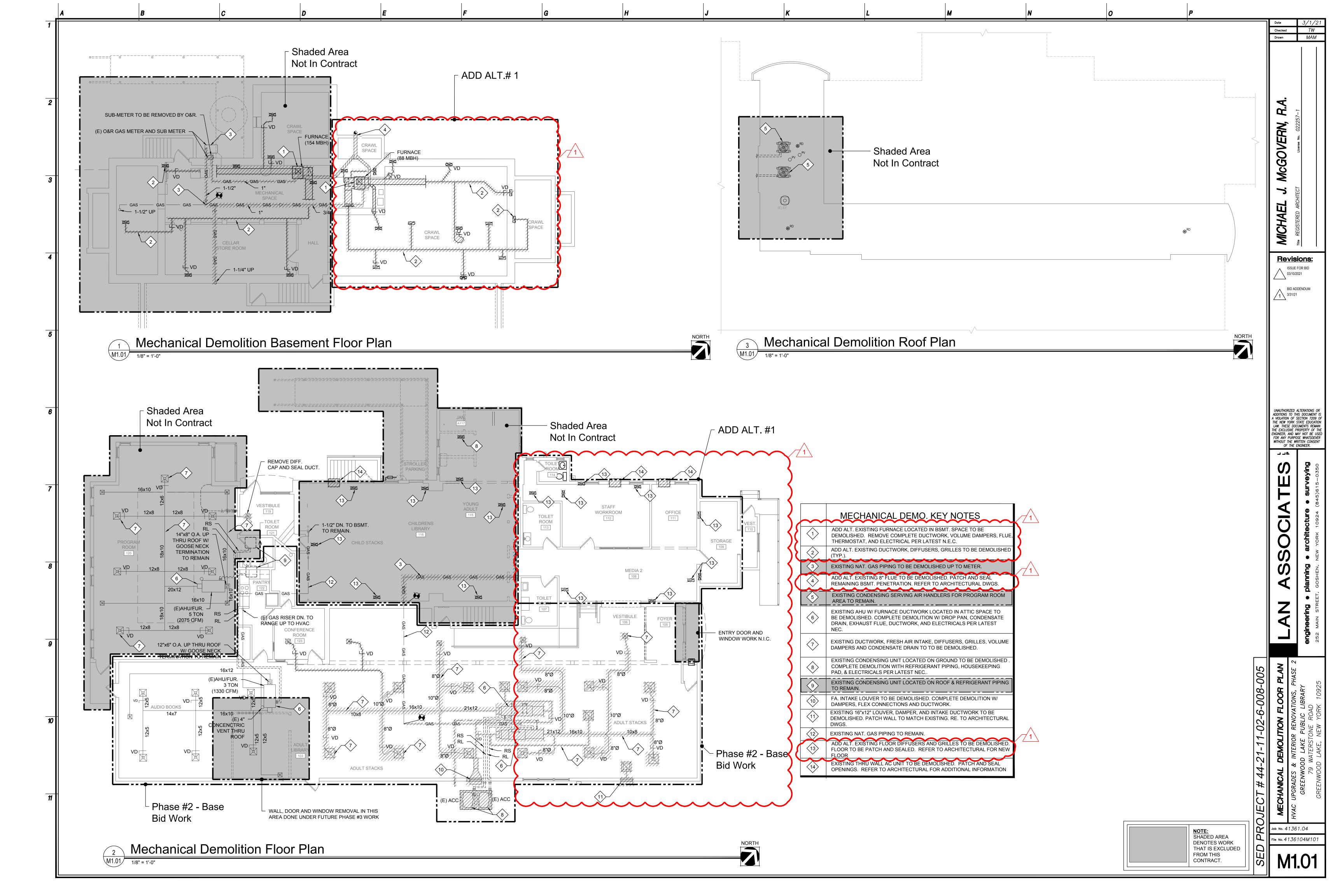
#4.1361.05

No bidder shall withdraw his/her bid within sixty (60) days after the formal bid opening. The Library Board of Trustees reserves the right to waive any informality in any proposals, or to reject any or all proposals and to advertise for new proposals.

Date: By Order of: **3/10/2021** Board of Trustees Greenwood Lake Public Library Greenwood Lake, New York 10925



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SCHEDL	JLE												Checked	3/1/21 TW MAM
quired	Required	Total	Zone Air	Zone										
A. per	OA For Occupant	Min. O.A. Required	Distribution Effectivene	Required	Des O.A.	E.A.		—— Shaded Area						
erson 5	s 55	(CFM)	ss 0.80	(CFM) 141	(CFM)	(CFM)	Remarks	Not In Contract					A.	
5	50	121	0.80	151									, R.A.	
5	50	121	0.80	155	155			—— Phase #2 - Base					MCGOVERN,	
9 0		5	0.80	7	10		NOT SERVING	Bid Work —— Shaded Area						
0 0	0	10	0.80	13 0	15	50	50 CFM PER W.C.	Not In Contract					McG	
5	35	58	0.80	72	75								J. I ITECT	
0	0	17 2	0.80 0	21 0	25 0		NOT SERVING	—— Phase #2 - Base					HAEL Stered arch	
5	10 15	18 32	0.80	22 40	25 40			Bid Work					CH/ REGISTERI	
0	0	-	0	0	0	50 50								
5	75	111	0.80	139	140	50		—— Shaded Area						
5 0	50 0	167 32	0.80	209 32	210 35			Not In Contract					03/10/2021	IDUM
0		7	0.80	0 9	- 10	100		—— Phase #2 - Base					BID ADDEN	
5	450	530	0.80	9 663	1,200			Bid Work						
0	0	-	0	0		50	0.3 CFM/FT ²	Shaded Area						
0	0	18	0.80	22		400	KITCHENETTES, 400 CFM KITCHEN HOOD	Not In Contract —— Phase #2 - Base						
5	40	47	0.80	59	60			Bid Work						
		16	0.80	20 0	0			—— Shaded Area						
	835	1,429		1,775.1	2,320	700		Not In Contract					unauthorized alter Additions to this d	RATIONS OR POCUMENT IS
Shaded Area	a Not In (Contract		•									THE NEW YORK STATE LAW. THESE DOCUME THE EXCLUSIVE PROPE ENGINEER, AND MAY N	EDUCATION VTS REMAIN ERTY OF THE NOT BE USED
\sim							INDC	OR VRF AC TEF	RMINAL UN	IT SCHEDULE		(<u>DAIKIN</u> AS STANDARD)	FOR ANY PURPOSE V WITHOUT THE WRITTEN OF THE ENGIN	HATSOEVER ↓ CONSENT IEER.
				TAG A	REA SERVED	OW-HIGH (CFM)	COOLING SEER/ REF	FRIG PIPE CONNECTIONS ELEC		APPROX.	MODEL MANUFACTERER NOTES		S	/ing
REMAR	RKS			AC-1	IT ROOM	727-890 31					X30NVJU DAIKIN S	SEE NOTE(S) BELOW	Щ	ULVO) 615-0
DX COOLING COIL, NA			CT SWITCH.	NOTES: 1. AC-1 WALL		T SHALL BE PI	ROVIDED A CONDENSATE LIFT PUMF	P FROM THE UNIT MANUFACTURER AND FI	ELD INSTALLED.	II	I			(845)
MIZER W/ ENTHALPY (ARY O.A. TO MAINTAIL	CONTROL, CO2 E N CONSTANT DIF	DEMAND CONTROL FERENTIAL OF 60	LLED	2. PROVIDE V	// WALL-MOUNT	ED REMOTE C							131	octure
CWEEN RETURN AIR &			CT SWITCH.				OUTDO	DOR AIR-COOLE	D CONDEN	SING UNIT SCH	IEDULE		Ŏ	
			<u>, , , , , , , , , , , , , , , , , , , </u>	MARK No.	LOCATION	UNIT(S) SERVED	COOLING AMBIENT SUCTION (TMBH) TEMP. (°F) TEMP. (°F) V	ELECTRICAL	MODEL & APPROX. NUFACTURER (LBS)		REMARKS	(IN AS STANDARD)	٥ ١	
E				ACC-IT	ROOF	AC - 1	31.4 95 45 208-23		N RK20NMVJU 135	28-15/16 x 34-1/4 x 12-5/8 10 17.5	PROVIDE LOW TEMP KIT, 0°F LOW AMBIENT WI DISCONNECT SWITCH, GFI CONVENIENCE OUT			anning ознем
REMARKS				<mark>ॖ</mark> ┡ <mark>╼╶╶╶╼╼╼</mark>			FXHAUST	FAN SCHEDULE						● Di
CONTROL, DISCONNE				MARK No.	CFM S.P.	HP(Watts)	RPM ELECTRIC DATA	MODEL & MANUFACTURER	REMARKS		Shaded Area			ering In Str
CONTROL, DISCONNEC					325 1/2	1/4	1230 115-1-60	GB-80 GREENHECK W/ CURB ADA	PTER, VIBRATION ISOLATOF SCONNECT SWITCH.		Not In Contract			ngine 52 MA
CONTROL, DISCONNEC	СТ SWITCH & HO	T-GAS BYPASS		EF-2	65 1/4	(54.3)	900 115-1-60		LING RADIATOR DAMPER, B.					0 N
\sim	\sim	\sim	\sim	/								<u> 35</u>	ASE 2	
JUTSIDE	: AIR S			AT REC		RY SC		RGY RECOVERY WHEEL			(TRANE AS STANDARD)	<u> </u>	S, PHJ	0925
F/ ARI EER REFR	IG. HEATING E TYPE	INPUT OUTP HEATING HEATI CAPACITY CAPAC	NG EAT °F LA	AT °F HEATING STAGES		PRESSURE - MIN MAX INCHES	SUMMER TOTAL CAP. SENSIBLE CAP.	LATENT CAP. TOTAL CAP. SEN	VINTER SIBLE CAP. LATENT CAP		ECTRICAL REMARKS	<u>6-008</u>	ULES)AD)RK 1(
20.3 R-410	A NAT. GAS	MBH MBH 150 120		154 MODULATIN	IG 80	W.C. 7" TO 14"	MBH MBH 51.04 22.07	MBH MBH 22.07 57.67	MBH MBH 37.98 19.69	2,100 161 x 52 x 55 208/3		02-(CHED RENOV	NE RC EW YC
GAS BYPASS HGP 150 MBH 10:1 TURNDC NE UC600 SINGLE ZOI			10. PR	OVIDE NIN-FUSED OVIDE 18" ROOF CI	JRB.	WITCH.	·					-11-	AL S ERIOR AKF F	ERSTO KE, NI
										•		1-21.	ANIC, & INT.) WATI DD LAI
NG UNIT	SCHE	DULE]				Shaded Area	# 44	AECH.	ENWOC
	T UNIT A MOP		REMAR	RKS			Phase #2	- Base			Not In Contract	CT ;	N UPGR	GRE
M LENNOX 52	2 60 W/ ECC NON-FI	DNOMIZER, BAROMETR USED DISCONNECT SW	RIC RELIEF DAMPER, SM VITCH, GFI CONVENIEN	MOKE DETECTOR, CONI ICE OUTLET, ROOM THE	DENSER COIL GUAR RMOSTAT.	NDS,	Bid Work					DJE	HVAC	
							J					PRO	Job No. 41361.(File No. 4136104	
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	ULE												Date 3/1/2 Checked TW Drawn MAM	
ed	Required	Total	Zone Air	Zone										
er	OA For Occupant	Min. O.A. Required	DistributionEffectivene	Min. O.A. Required	O.A.	E.A.	St	naded Area						
'n	s 55	(CFM) 112	ss 0.80	(CFM) 141	(CFM) 145	(CFM) Remarks		ot In Contract					A.	
	50	121	0.80	151	155								N, R.	
	50	124	0.80	155	155			nase #2 - Base d Work					VERN, Icense No. 0222	
	0	5 10	0.80	7 13	10 15	NOT SERVIN	vg Sł	naded Area ot In Contract					McGO	
	0 35	- 58	0	0 72	- 75	50 50 CFM PER V								
	0	17	0.80	21	25								IL J.	
	0	2 18	0 0.80	0 22	0 25	NOT SERVIN		nase #2 - Base d Work					CHAEL	
	15 0	32	0.80	40 0	40 0	50								
	0 75	- 111	0.80	0 139	0 140	50	Sł	naded Area						
	50 0	167 32	0.80	209 32	210 35			ot In Contract					ISSUE FOR BID 03/10/2021	
	0		0.80	0	10	100		nase #2 - Base					BID ADDENDUM 3/31/21	
	450	530	0.80	663	1,200			d Work						
	0	-	0	0	-	50 0.3 CFM/FT		naded Area ot In Contract						
	0	18	0.80	22		400 KITCHENETTES CFM KITCHEN H	s, 400 HOOD Pr	nase #2 - Base						
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SECTION 011000 – SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Work covered by the Contract Documents.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A.	Project Identification:	HVAC Upgrades & Interior Renovations at
		Greenwood Lake Public Library
		79 Waterstone Road
		Greenwood Lake, NY 10925

B. Owner: Greenwood Lake Public Library 79 Waterstone Road Greenwood Lake, NY 10925

Owner's Representative: Ms. Jill Cronin, Director

- C. Architect: LAN Associates, Engineering, Planning, Architecture, Surveying, LLP (LAN) 252 Main St. Goshen, NY 10924
- D. The Work consists of the following:
 - 1. Interior renovations to reconfigure the existing north entry to the Library.
 - a. Infill the existing interior door and provide a new window W01.
 - b. Remove an existing window and install new door D02 with sidelights.
 - c. Removal of the existing circulation desk and infill of the existing wall between existing circulation desk and Media 2 (108).
 - d. Installation of new flooring and walk-off mat in Foyer (104).
 - e. Note that the existing book-drop and front entry door have been installed in a previous phase of work and are not included in this contract.
 - 2. Demolition of (2) existing air handlers at the Adult Stack area including all ductwork, piping, supply & return diffusers, volume dampers, electrical connections, etc. as required and shown on the mechanical and electrical drawings.

011000-1

- 3. Demolition of existing gas fired furnace, piping, ductwork, diffusers, grilles, volume dampers, etc. in the basement and crawl space, as required and shown on the mechanical and electrical drawings.
- 4. Installation of new mechanical equipment.
 - a. Furnish and install new packaged Direct eXpansion (DX) unit RTU-1 serving the Adult Stack area, inclusive of all exterior ductwork, duct insulation, concrete housekeeping pad, curb rails, interior ductwork, supply & return diffusers, connections and modifications to existing gas piping, volume dampers, thermostats and low voltage wiring, electrical connections, etc.
 - b. ADD ALTERNATE #1: Contractor shall provide an ADD ALTERNATE price on the bid form to furnish and install new air handler AH-1 and air conditioning condenser ACC-1 serving Staff Workroom (112), Office (111), Storage (109), Media 2 (108), Toilet Room (113), and Toilet Room (107), inclusive of connections and modifications to existing gas piping, new ductwork, supply & return diffusers, volume dampers, duct insulation, line-sets, refrigerant, thermostats & low voltage wiring, electrical connections, venting & flues, etc. as required for a complete and operational installation. Demolition of the furnace located in the basement that serves the Media 2 (108), Storage (109), Office (111), & Staff Workroom (112) area to be demolished in its entirety including but not limited to furnace, ductwork, registers, etc.as part of ADD ALTERNATE #1.
 - c. <u>ADD ALTERNATE #2</u>: Contractor shall provide an ADD ALTERNATE price on the bid form to furnish and install new air handler AH-3 and air conditioning condenser ACC-3 serving Vestibule (119), Toilet Room (121), Conference Room (125), and Storage (122), inclusive of connections and modifications to existing gas piping, new ductwork, supply & return diffusers, volume dampers, duct insulation, linesets, refrigerant, thermostats & low voltage wiring, electrical connections, venting & flues, etc. as required for a complete and operational installation.
 - d. Furnish and install exhaust grilles, volume dampers and ductwork in Toilet Room (107), Toilet Room (113) and Toilet Room (114). Connect to existing Exhaust Fan EF-1 and modify existing ductwork as required to make new connections.
- 5. Existing lighting in areas affected by mechanical work to be disconnected and removed as required for demolition and installation of new mechanical equipment. Existing lighting to be tagged for location, salvaged, and reinstalled after mechanical work is complete.
- 6. Relocation of an existing emergency exit sign at the new interior entry door.
- 7. Removal and replacement of existing ceiling grid and tiles in new Foyer (104). Lighting in this area to be salvaged and reinstalled in new grid.
- 8. Removal and replacement of existing ceiling tiles & grid in all areas of work only as required for the removal of existing and installation of new mechanical equipment.
 - a. <u>ADD ALTERNATE #3:</u> Contractor shall provide an ADD ALTERNATE price on the bid form for the removal and disposal of the existing ceiling tiles, and the installation of new Armstrong Ultima Tegular ceiling tiles in the Adult Stack area, Media 2 (108), Office (111), Staff Workroom (112), Vestibule (105), and Conference Room (125). Total area of ceiling tile replacement is approximately 4,750 square feet.
- 9. All electrical work associated with the mechanical work required to complete this project.
- 10. Installation of new electrical and low voltage wiring, boxes, conduits, receptacles, etc. as indicated on the drawings at the location of the new Circulation Desk and adjacent

exterior walls. Note that the new circulation desk itself will be furnished and installed by the Owner and is not part of this contract.

- 11. The architectural work associated with the Director's Office (127) including new door D04, new windows W2 & W3, and new partitions are not part of this contract and are scheduled as future work. Please note the following:
 - a. Demolition and Proposed mechanical work in the area of Director's Office (127) is in this phase of work and considered part of this contract for construction.
 - b. Existing electrical receptacles, switches, junction boxes, etc. in the area of Director's Office (127) are to remain.
 - c. Existing electrical receptacles, switches, junction boxes, etc. in the existing Director's Office are to remain.
- 12. All work associated with the Program Room (120), Children's Library (116), Young Adult (115), Family Toilet (A118), Janitor's (A117), & MDF (128) is excluded from this contract. The work in the abovementioned areas was either completed in an earlier phase or is future work.

1.4 TYPE OF CONTRACT

A. Project will be constructed under a single prime contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 087111 - DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Door Hardware".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code.
 - 6. NFPA 105 Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door

Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

- 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
- 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
- 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
- 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.
- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum [5] years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

- B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum
 [3] years documented experience installing both standard and electrified builders hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum [5] years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor in good standing by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- D. Source Limitations: Obtain each type and variety of Door Hardware specified in the Related Sections from a single source, qualified supplier unless otherwise indicated.
- E. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the applicable model building code.
- F. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

- 2.1 SCHEDULED DOOR HARDWARE
 - A. Refer to "PART 3 EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
- B. The supplier is responsible for handing and sizing all products and providing the correct option for the appropriate door type and material where more than one is presented in the hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. Products listed in the Door Hardware Sets must meet the requirements described in the specification sections noted.
 - 1. Section 08 71 00 Door Hardware (unless noted otherwise).
- D. Manufacturer's Abbreviations:
 - 1. MK McKinney
 - 2. MR Markar
 - 3. PE Pemko
 - 4. RI RITE Door
 - 5. RO Rockwood
 - 6. YA Yale
 - 7. RU Corbin Russwin
 - 8. AD Adams Rite

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9. MC - Medeco 10. RF - Rixson 11. NO - Norton 12. GS - ASSA ABLOY Glass Solutions 13. CS – Cavity Slider 13. OT - OTHER

Hardware Sets

<u>Set: 1.0</u> Description: Director's Office Sliding Pocket Door

1 ADA Slider Lockset	CL100 ADA Lever	US26D	CS
Set: 2.0 Description: Office			
 3 Hinge (heavy weight) 1 Intruder Classroom Lock 2 Electronic Cylinder/Core 1 Door Stop 3 Silencer 	T4A3786 (qty, size, nrp per spec) AUR 8808-2FL IND IC x temp core By Owner 401; 404; 441CU (or per spec) 608	US26D 626 26 US26D	MK YA MC RO RO
<u>Set: 3.0</u> Description: Toilet			
 3 Hinge (heavy weight) 1 Privacy Lock 1 Surface Closer 1 Kick Plate 1 Door Stop 1 Head & Jamb Seal (adhesive) 1 Coat Hook 	T4A3786 (qty, size, nrp per spec) AUR 8802FL IND 7500 Series K1050 6" 4BE CSK 401; 404; 441CU (or per spec) S88BL 806	US26D 626 689 US32D US26D US26D	MK YA NO RO RO PE RO
<u>Set: 4.0</u> Description: MDF, Jan. Clos.			
 3 Hinge (heavy weight) 1 Storeroom Lock 1 Electronic Cylinder/Core 1 Kick Plate 1 Wall Stop 3 Silencer 	T4A3786 (qty, size, nrp per spec) AUR 8805FL IC x temp core By Owner K1050 6" 4BE CSK 403 608	US26D 626 26 US32D US26D	MK YA MC RO RO RO
<u>Set: 5.0</u> Description: Aluminum Entry			
 Continuous Hinge Exit Device (rim, NL, CD) Electronic Cylinder/Core Pull (offset) Concealed Overhead Stop Kick Plate Threshold (coord w/ details) 	CFM-HD1 Series 6105 121NL IC x temp core By Owner RM2320-40" MP 12XHD 1-X36 K1050 6" 4BE CSK 273x292AFGPK FHSL14SS-2	630 26 US32D 630 US32D	PE YA MC RO RF RO PE
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1	Head & Jamb Gasketing	2891APK		PE
1	Mullion Gasket	5110BL		PE
1	Sweep	315CN		PE
1	Astragal	305CN		PE
1	Electric Strike	9600		HES
1	SMART Pac Bridge Rectifier	2005M3		HES
1	Automatic Opener	6061; 6071; D (as req'd)	689	NO
2	Actuator Button	505		NO

END OF SECTION 087111