ADDENDUM NO. 1

December 8, 2021

Parkwood-Upjohn Elementary School Remodel & Site Improvements

Parkwood-Upjohn Elementary School 2321 South Park Street Kalamazoo, MI, 49001

TO: ALL BIDDERS OF RECORD

BIDS DUE TIME CHANGED TO 3:00 PM

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated November 1, 2021, by TowerPinkster. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-3, dated December 8, 2021, TowerPinkser Addendum No. 1, dated December 6, 2021, consisting of 3 pages, Specification Sections: 22 40 00, 32 31 13, 32 31 19, Drawings: L001, AD101, A101, P101, P102, E001, E101, E102, and E501.

A. <u>SPECIFICATION SECTION 00 00 10 - TITLE PAGE</u>

1. All references to the **Bids Due** are to change from 2:00 pm (local time), to **3:00 pm** (local time), and bids will be publicly read aloud immediately following the deadline.

B. SPECIFICATION SECTION 00 02 00 – NOTICE TO BIDDERS

1. All references to the **Bids Due** are to change from 2:00 pm (local time), to **3:00 pm** (local time), and bids will be publicly read aloud immediately following the deadline.

C. SPECIFICATION SECTION 00 31 00 – BID FORM

1. Replace with attached revised Bid Form. **NOTE REVISED DESCRIPTION FOR ALTERNATE No. 1.**

D. <u>SPECIFICATION SECTION 01 12 00b – MULTIPLE CONTRACT SUMMARY</u>

Part 3.03 Bid Categories

A. BID CATEGORY NO. 1 – GENERAL TRADES

1. Revise the following Clarification:

No. 2 to read: Provide new ornamental and chain link fence in its entirety including work stone dust shown on sheet L001.

2. Add the following Specification Section:

32 31 13 - Chain Link Fence

3. Add the following Clarification:

No. 8: At all new interior signage locations of replacement, provide removal, disposal of existing sign, clean, prime and paint the surface to match existing surface at all sign mounted locations and prep for new installation.

D. BID CATEGORY NO. 4 - ELECTRICAL

1. Add the following Clarification:

No. 4: Provide projection screen and associated controller per Sheets E001, E101, and E501.

E. SPECIFICATION SECTION 01 23 00 – ALTERNATES

1.04 Revise the following Alternate:

A. ALTERNATE NO. 1: Ceramic Tile at Drinking Fountains: Ceramic tile at drinking fountains indicated as Alternate No. 1 is not a part of base-bid. If Alternate No. 1 is accepted, remove existing drinking fountains, provide ceramic tile at drinking fountains, and reinstall drinking fountains in areas indicated as Alternate No. 1.

F. SPECIFICATION SECTION 01 32 00 - SCHEDULES AND REPORTS

- 1. Issued new Guideline Construction Schedule
- 2. Issued new Site Logistics Plan
- 3. Post-bid Interview Schedule

End of Addendum

CONTRACTOR'S BID FOR PUBLIC WORKS

Parkwood-Upjohn Elementary School Remodel & Site Improvements

Kalamazoo Public Schools Kalamazoo County

PART I

(To be completed for all bids) (Please type or print)

BIDDER (firm)	
Address	P.O. Box
City/State/Zip	
Telephone Number	Email Address:
Person to contact regarding this B	id:
Pursuant to notices given, the undecomplete the construction work for	ersigned offers to furnish labor and materials necessary to
Insert	t Bid Category No.(s) and Name(s)
Improvements, in accordance	with Plans and Specifications prepared by TowerPinkster , Suite 100, Kalamazoo, MI 49007 , as follows:
BASE BID	
For the sum of	
	(sum in words)
	DOLLARS (\$)
	(sum in figures)

The undersigned acknowled	ges receipt of	the following	Addenda:		
Receipt of Addenda No.(s)_PROPOSAL TIME					
Bidder agrees that this Bid s days from the due date, and accepted within said sixty (6	Bids may be	accepted or re	jected during t	his period. Bio	
Attended pre-bid conference	YES	NO			
Has visited the jobsite	YES	NO			
The Bidder must attach to this Bid Form) disclosing a bidder and any member of The Bidder has reviewed the of the schedule can be met.	ny familial r the District' Guideline So	elationship be s Board or the chedule in Sec	etween the Over the Superintender of the Superinten	vner or an emdent of the Distant	ployee of the
The Skillman Corporation' measure the active participal Disabled Individual-Owned provided full and equal oppositions.	ation of Mino d Businesses.	rity- Owned, ' The Program	Women-Owne is to ensure the	d, Veteran – O at MWVDBEs	wned and are
Bidder has included:	DBE: YES MBE: YES VBE: YES	S% S%	NO NO NO		
The sundansioned further com	4 - Gram : -1-	a la a a a a a a	:::	41- 41-10 Did f	

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

**MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE **

Alternate Bid No. 1 – Ceramic Tile at Drinking Fountains: Ceramic tile at drinking fountains indicated as Alternate No. 1 is not a part of base-bid. If Alternate No. 1 is accepted, remove existing drinking fountains, provide ceramic tile at drinking fountains, and reinstall drinking fountains in areas indicated as Alternate No. 1.

Char	nge the Base Bid the sum of
	(sum in words)
	ADD
	DOLLARS (\$) DEDUCT (sum in figures)
	(sum in figures)
Unit	Prices
A.	Unit Price No. 1: Supplemental Excavation, Satisfactory Soil Fill:
	1. Description: Unit price for the removal of unforeseen unsatisfactory soil and replacement with satisfactory soil, according to Section 31 2000 "Earth Moving."
	DOLLARS(\$) (sum in figures)
	2. Unit of Measurement: Cubic yard of soil excavated, based on in-place surveys of volume before and after removal.
	DOLLARS(\$) (sum in figures)
B.	Unit Price No. 2: Supplemental Excavation, Engineered Fill:
	1. Description: Unit price for the removal of unforeseen unsatisfactory soil and replacement with engineered fill, according to Section 31 2000 "Earth Moving."
	DOLLARS(\$) (sum in figures)
	2. Unit of Measurement: Cubic yard of soil excavated, based on in-place surveys of volume before and after removal.
	DOLLARS(\$) (sum in figures)

NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such sale.

OATH AND AFFIRMATION

I affirm under the penalties of my knowledge and b		going facts and in	formation are true and correct to the
Dated atth	is day of	, 2021.	
			(Name of Organization)
		Ву	(Title of Person Signing)
			(Title of Person Signing)
	ACKNOWLE	OGEMENT	
STATE OF) COUNTY OF)		
		_	
he is(Title)	of the above	(Name of Org	eanization)
and that the statements contained in t			
Subscribed and sworn to before me the	nis day of	, 20	·
		N	Notary Public
My Commission Expires:			
County of Residence:			

PART II

(Complete sections I, II, and III for all state and local public works projects)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed?

Contract Amount	Class of Work	When Completed	Name and Address of Owner

2. What public works projects has your organization now in process of construction:

Contract Amount	Class of Work	When Completed	Name and Address of Owner

<i>y</i>				
List reference	es from private f	firms for which you	u have performed	work.

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1.	Explain your plan or layout for performing proposed Work.
2.	If you intend to sublet any portion of the Work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you expect to require a bond.
3.	What equipment do you intend to use for the proposed Project?
4.	Have you made contracts or received offers for all materials within prices used in preparing your proposal? yes no.

SECTION III OATH AND AFFIRMATION

I hereby affirm under the penalties of perjury that the facts and information contained in the foregoing Bid for public works are true and correct to the best of my knowledge and belief.

IN TESTIMON	Y WHEREOF, The Bi	dder has hereunto set his hand this	
-	day of	, 20	
Bidder:			
IN TESTIMON	Y WHEREOF, The Bi	dder (a firm) have hereunto set their ha	nds this
	day of	, 20	
Firm Name:			
By:			
Individual name	·S'		

IN TESTIMONY WHEREOF, The Bidder (a	corporation) has cause	d this proposal to be signed by
its President and Secretary and affixed its corp	porate seal this	day of ,
20		
Name of Corporation:		
Provident		
President: Secretary:		
ACKNO	OWLEDGEMENT	
STATE OF)	
) SS:		
COUNTY OF	_)	
	being duly sworn, de	eposes and says that
he is of the abov	ve	
(Title)		me of Organization)
and that the answers to the questions in the for	regoing questionnaires	and all
statements therein contained are true and corre		
Subscribed and sworn to before me this	day of	, 20
Notary Public		
My Commission Expires:		
County of Residence.		

<u>KALAMAZOO PUBLIC SCHOOLS</u> FAMILIAL STATEMENT OF DISCLOSURE

*** Failure to return this <u>notarized</u> statement/signature with the bid will result in <u>bid disqualification</u> ***

Kalamazoo Public Schools
600 Vine Street
Kalamazoo, MI 49008

Dear Ladies and Gentlemen:

I/We, the undersigned, acknowledge by this sworn and notarized statement disclosing any familial relationship (or lack of a relationship) that exists between the Owner or any employee of the bidder and any member of the Board of Education of the Kalamazoo Public Schools or the Superintendent of the School District. The District shall not accept a bid that does not include a sworn and notarized disclosure statement.

	O We have prior familial knowledge of parties	' involved (Attached o	clarification).
	O We have no prior familial knowledge of part	ies involved.	
Signatur	e		
Compan	y Name		
		Notary Public	
		My Commission Evr	County, Michigan
		MINI Ommiccion Hyr	Mrgc.

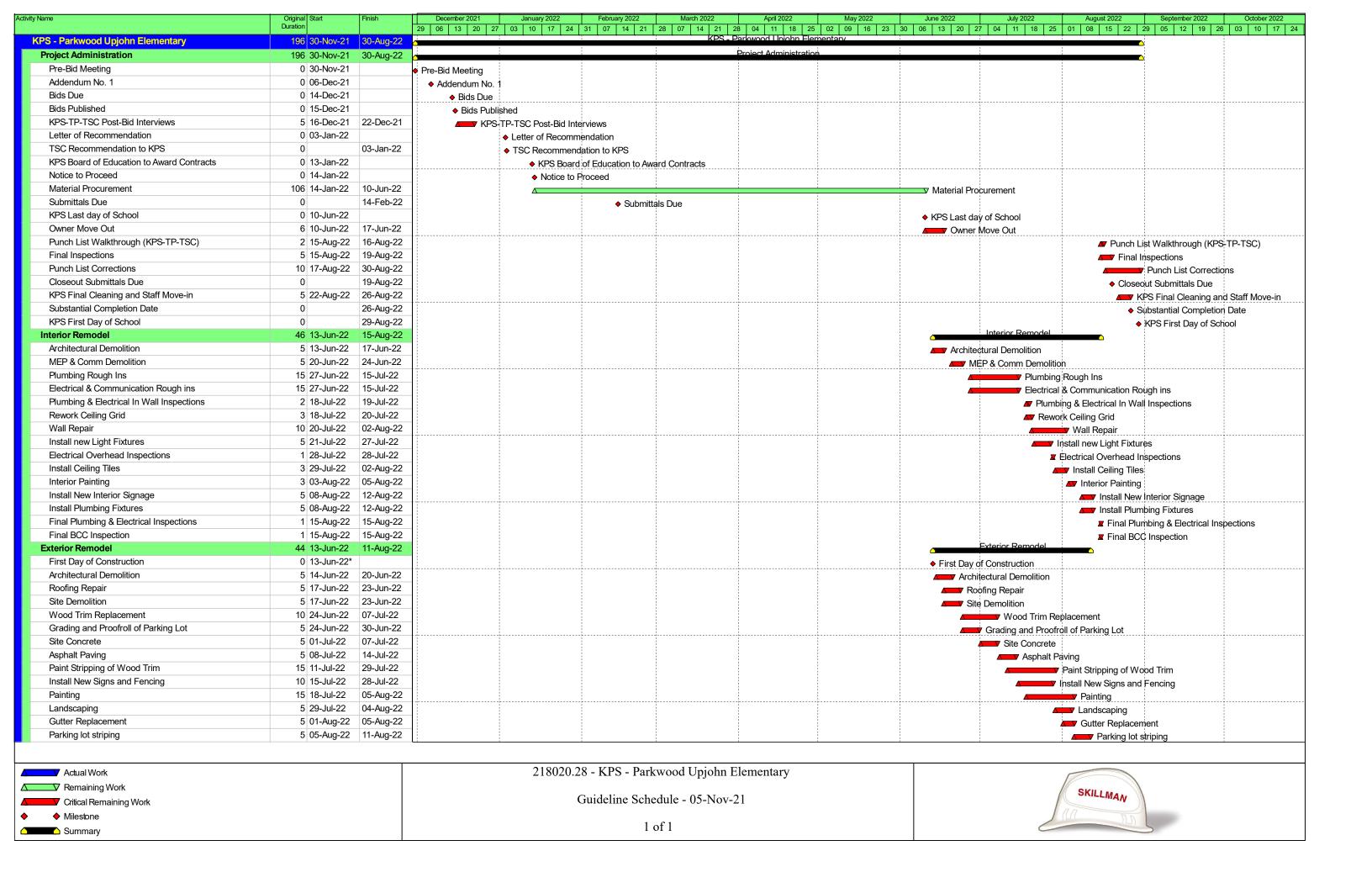
<u>CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT</u> Michigan Public Act No. 517 of 2012

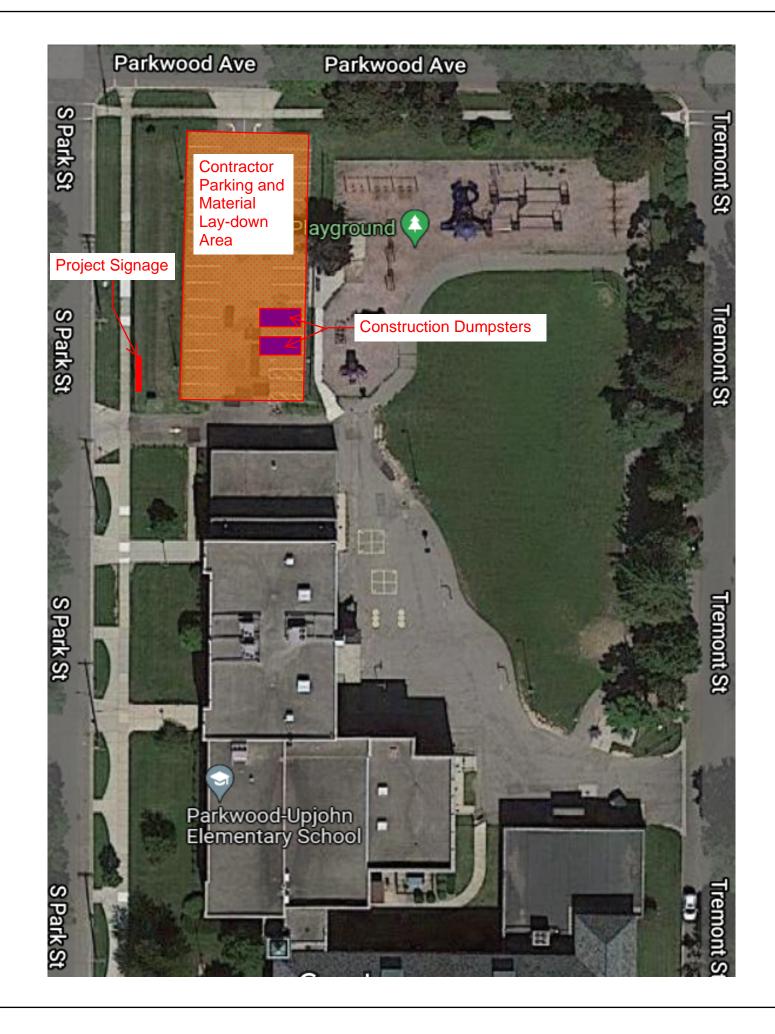
The undersigned, the owner, or authorized officer of the below-named company (the "Company"), pursuant to the compliance certification requirement provided in the **Kalamazoo Public School's** Request For Proposal (the "RFP"), hereby certifies, represents, and warrants that the Company (which includes its officers, directors and employees) is not an "Iran Linked Business" within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the "Act"), and that in the event the Company is awarded a contract by the **Kalamazoo Public School** as a result of the aforementioned RFP, the Company is not and will not become an "Iran Linked Business" at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the **Kalamazoo Public**Schools's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that the person has submitted the false certification.

					BIDDER:	
					By:	
STATE OF MICHIGAN))ss.)					
This instrument was		before	me	on	n the, day of, 20,	by
					, Notary Pub County, Michigan	olic
					ommission Expires:	
					ng in the County of:	

END OF SECTION 00 31 00







KPS - Parkwood-Upjohn Elementary School

Site Logistics Plan - 11.22.2021





Pre-Award Conference Schedule

KPS Parkwood, Milwood Elementary and Northglade



Bid Category #/Name:	Project	Contractor:			Kalamazoo ublic Schools TowerPinkster							
THURSDAY DECEMBER 16												
FLOORING	MILWOOD ELEM.		8:30 - 9	Karen Jackson	Mike Galovan	Rohit Tilekar						
FLOORING	NORTHGLADE		9:15 - 10	Karen Jackson	Mike Galovan	Rohit Tilekar						
ROOFING	NORTHGLADE		10 - 10:45	Karen Jackson	Mike Galovan	Rohit Tilekar						
LOCKERS	NORTHGLADE		11 - 11:30	Karen Jackson	Mike Galovan	Rohit Tilekar						

FRIDAY DECEMBER 17											
PLUMBING	PARKWOOD		8:30 - 9	Karen Jackson	Perry / Mike	Rohit Tilekar					
MECHANICAL	MILWOOD ELEM.		9:15 - 10	Karen Jackson	Perry / Mike	Rohit Tilekar					
MECHANICAL	NORTHGLADE		10 - 10:45	Karen Jackson	Perry / Mike	Rohit Tilekar					
ELECTRICAL	PARKWOOD		11 - 11:30	Karen Jackson	LENTZ / MIKE	Rohit Tilekar					
ELECTRICAL	NORTHGLADE		11:30 - 12	Karen Jackson	LENTZ / MIKE	Rohit Tilekar					

MONDAY DECEMBER 20											
GENERAL TRADES	PARKWOOD		12:30 - 1:30	Karen Jackson	Mike Galovan	Rohit Tilekar					
GENERAL TRADES	MILWOOD		1:30 - 2:15	Karen Jackson	Mike Galovan	Rohit Tilekar					
GENERAL TRADES	NORTHGLADE		2:15 - 3:15	Karen Jackson	Mike Galovan	Rohit Tilekar					
ASPHALT PAVING	NORTHGLADE		3:15 - 3:45	Karen Jackson	Mike Galovan	Rohit Tilekar					
ASPHALT PAVING	PARKWOOD		3:45 - 4	Karen Jackson	Mike Galovan	Rohit Tilekar					



ADDENDUM NO. 1

DATE OF ISSUANCE: December 6, 2021

PROJECT: Parkwood-Upjohn Elementary School Remodel & Site Improvements

2321 South Park Street Kalamazoo, MI 49001

OWNER: Kalamazoo Public Schools

ARCHITECT'S PROJECT NO.: 18-526.00

ORIGINAL BID ISSUE DATE: November 1, 2021

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **three (3)** pages of text and the following documents:

Bidding Documents: NoneContract Conditions: None

Specification Sections: 01-2300, 22-4000, 32-3113 & 32-3119

Sketches: None

Drawings: L 001, AD101, A101, P 101, P 102, E 001, E 101, E 102 & E 501

CHANGES TO PREVIOULSY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.



12.6.2021 Addendum No. 1 – Parkwood-Upjohn 18526.00

CHANGES TO SPECIFICATION

ADD-1 Item No. S-1 - Alternates

Refer to added Specification Section 01 2300 "Alternates" for added information on Alternates shown in the documents.

ADD-1 Item No. S-2 - Chain Link Fence

Refer to added Specification Section 32–3113 "Chain Link Fence" for chain link fence shown in the documents.

ADD-1 Item No. S-3 - Decorative Fence

Refer to added Specification Section 32-3119 "Decorative Fence" for added swing gate information as shown in the documents.

ADD-1 Item No. S-4 - Plumbing Fixtures

Refer to the reissued Specification Section 22-4000 Plumbing Fixtures for the revised electric water coolers.

CHANGES TO DRAWINGS

ADD-1 Item No. D-1 - Existing Signage Demolition

Refer to Interior Signage Drawings (Not Reissued)

At each new sign location remove and dispose existing sign. Where applicable prep for; cleaning, prime and painting of surface below where the sign was mounted. Paint to match the existing surrounding area. Refer to Interior Signage sheets for all new sign locations.

ADD-1 Item No. D-2 - Chain Link Fence Plan and Detail

Refer to Re-issued Landscape Plan, sheet L001. Provide chain link fence at locations indicated and as detailed.

ADD-1 Item No. D-3 - Drinking Fountain / EWC Change

- Refer to Re-issued AD 101, A 101, P 101 and P 102.
- Electric water cooler changes as noted below, and as per revised and reissued drawings.
 - At Classroom 105 (new room number):
 - o On drawing AD 101 change demo keynote at existing water fountain to keynote 2.
 - o On drawing A101 change keynote at new EWC to new keynote 2.
 - o On drawing P 101 revise the EWC tag.

2



12.6.2021 Addendum No. 1 – Parkwood-Upjohn 18526.00

- At Classroom 205 (new room number):
 - o On drawing A 101 change keynote at new EWC to new keynote 2.
 - o On drawing P 102 revise the EWC tag.
- At Classroom 220 (new room number):
 - o On drawing A 101 change keynote at new EWC to new keynote 2.
 - o On drawing P 102 Revise the EWC tag.

ADD-1 Item No. D-4 - Gym Projection Screen

Refer to reissued sheet(s): E 001, E 101 & E 501

Projection screen and projection screen controller symbols have been added to symbol legend under AUDIO/VISUAL [E 001].

Projection screen shall be provided and installed by electrical contractor. Screen controller that comes with screen shall be installed by electrical contractor. Refer to floor plans and details (E 101 & E 501).

ADD-1 Item No. D-5 - Classroom 145S

Refer to reissued sheet(s): E 102

Teacher station rough-in has been added.

END OF ADDENDUM.

3

SECTION 22 4000 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes plumbing fixtures and related components.
- B. Related Sections include the following:
 - 1. Division 22 Section "Domestic Water Piping Specialties" for mixing valves and specialty fixtures not included in this Section.

1.2 DEFINITIONS

- A. Barrier-Free Fixture: Plumbing fixture that can be approached, entered, and used by people with disabilities.
- B. Fitting: Device that controls the flow of water into or out of the plumbing fixture. Piping and general-duty valves are included where indicated. Fittings specified in this Section include:
 - 1. Supplies and stops.
 - 2. Faucets and spouts.
 - 3. Drains and tailpieces.
 - 4. Traps and waste pipes.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of plumbing fixture indicated. Include selected fixture and trim, fittings, accessories, appliances, appurtenances, equipment, and supports. Indicate materials and finishes, dimensions, construction details, and flow-control rates.

1.4 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain plumbing fixtures, faucets, and other components of each category through one source from a single manufacturer.
 - 1. Exception: If fixtures, faucets, or other components are not available from a single manufacturer, obtain similar products from other manufacturers specified for that category.
- B. Regulatory Requirements: Comply with the following:

PROJECT NO. 18526.00 PARKWOOD-UPJOHN ELEMENTARY SCHOOL REMODEL KALAMAZOO PUBLIC SCHOOLS

PLUMBING FIXTURES 22 4000 - 2 ADD #1 - 11/01/2021

- 1. Michigan Building Code (ANSI117) for plumbing fixtures for people with disabilities.
- 2. Michigan Plumbing Code.
- 3. Local authority having jurisdiction.
- 4. Michigan and local Department of Health requirements.
- C. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
- D. NSF Compliance as required by authorities having jurisdiction:
 - 1. Comply with NSF 14, "Plastics Piping Components and Related Materials," for plastic domestic water piping components.
 - 2. Comply with NSF 61, "Drinking Water System Components Health Effects; Sections 1 through 9."
 - 3. Comply with NSF 372, "Drinking Water System Components Lead Content"
- E. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with specified requirements, provide commercial grade plumbing fixtures by one of the following:
 - 1. Water Coolers:
 - a. Elkay
 - b. Oasis
 - c. Halsey-Taylor
 - d. Haws
 - e. Murdock
 - 2. Fixture Supports:
 - a. Josam
 - b. Wade
 - c. Zurn
 - d. Jay R. Smith
 - e. MIFAB
 - f. Watts.

2.2 ELECTRIC WATER COOLERS

A. EWC-1 Electric Water Coolers (Barrier-Free): Wall mounted, self-contained barrier free access electric water cooler with fully sealed hermetic refrigeration system. Capacity 8 GPH of 50°F drinking water, 80°F inlet and 90°F ambient. Hand operated, flexible safety bubbler and self-closing push-bar controls located on front and side panels of cabinet, flow regulator from 20 to 100 psi, mounting hangers, stainless steel basin. Refrigeration system is located below basin, 115/1/60 compressor. Provide 1 1/4" P-trap and supply with stop. Elkay Model EZS8 or equivalent. When installed in pairs, mount unit indicated on drawings as barrier free at barrier free elevations and other unit at standard elevation. Refer to mounting height schedule.

- B. EWC-1 Electric Water Coolers (Barrier-Free): Two-level wall mounted, self-contained barrier free access electric water coolers with fully sealed hermetic refrigeration system. Capacity 8 GPH of 50°F drinking water, 80°F inlet and 90°F ambient. Hand operated, flexible safety bubbler and self-closing push-bar controls located on front and side panels of cabinet, flow regulator from 20 to 100 psi, mounting hangers, stainless steel basins, cabinet shall be steel with manufacturers standard finish. Refrigeration system is located below basin, 115/1/60 compressor. Provide P-trap and supply with stop. Elkay Model EZSTL8C or equivalent.
 - 1. Provide Elkay Model LKAPREZL or equivalent Thermo-formed textured ABS plastic apron accessory with bottom cover plate designed to bring water coolers into compliance with the Americans with Disabilities Act (A.D.A.) when units are mounted on an exposed wall.
- C. EWC-2 Electric Water Coolers (Barrier-Free): Two-level wall mounted, self-contained barrier free access electric water coolers with fully sealed hermetic refrigeration system and bottle fill station. Capacity 8 GPH of 50°F drinking water, 80°F inlet and 90°F ambient. Include front and side pushbar hand operators, flex-guard bubbler, and flow regulator from 20 to 100 psi, mounting hangers, stainless steel basins, and, cabinet shall be steel with manufacturers standard finish. Bottle filler shall provide 1.1 gpm flow rate with laminar flow to minimize splashing and include the minimum 3000-gallon capacity filter with visual monitor to indicate when replacement is necessary. Unit shall include integrated silver ion anti-microbial protection in key areas. Refrigeration system is located below basin, 115/1/60 compressor. Provide P-trap and supply with stop. Elkay Model LZSTL8WSLK or equivalent.
 - 1. Provide Elkay Model LKAPREZL or equivalent Thermo-formed textured ABS plastic apron accessory with bottom cover plate designed to bring water coolers into compliance with the Americans with Disabilities Act (A.D.A.) when units are mounted on an exposed wall.

2.3 FITTINGS, TRIM AND ACCESSORIES

- A. Fittings for Plumbing Fixtures: Fittings include the following:
 - 1. Supply Inlets: Copper tube, size required for final connection.
 - 2. Supply Stops: Chrome-plated brass body, angle or straight configuration with compression fittings, loose-key type; size to match inlet pipe and supply riser.
 - 3. Supply Risers: 3/8-inch OD flexible chrome-plated brass tube with 1/2-inch IPS straight or offset, knob-end tailpiece; or braided flexible stainless steel.
 - 4. Traps: Chrome-plated, 17 gauge tubular brass P-trap and wall bend, with slip-joint inlet, wall flange, and escutcheon; same size as fixture outlet connection.
 - For concealed applications within water coolers or casework, ASTM F 409 PVC one or twopiece trap and waste to wall maybe used.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before plumbing fixture installation.

- B. Examine cabinets, counters, floors, and walls for suitable conditions where fixtures will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.
- B. Install off-floor supports, affixed to building substrate, for wall-mounting fixtures.
 - 1. Use carrier supports with waste fitting and seal for back-outlet fixtures.
 - 2. Use carrier supports without waste fitting for fixtures with tubular waste piping.
 - 3. Use chair-type carrier supports with rectangular steel uprights for accessible fixtures.
- C. Install back-outlet, wall-mounting fixtures onto waste fitting seals and attach to supports.
- D. Install wall-mounting fixtures with tubular waste piping attached to supports.
- E. Install fixtures level and plumb according to roughing-in drawings.
- F. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
 - 1. Exception: Use ball valves if supply stops are not specified with fixture. Valves are specified in Division 22 Section "General-Duty Valves for Plumbing Piping."
- G. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
- H. Install tubular waste piping on drain outlet of each fixture to be indirectly connected to drainage system.
- I. Install traps on fixture outlets.
 - 1. Exception: Omit trap on fixtures with integral traps.
- J. Install escutcheons at piping wall ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding fittings. Escutcheons are specified in Division 22 Section "Common Work Results for Plumbing."
- K. Seal joints between fixtures and walls, floors, and countertops using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 07 Section "Joint Sealants."

3.3 CONNECTIONS

A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

3.4 FIELD QUALITY CONTROL

- A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
- B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.
- C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.
- D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.

3.5 ADJUSTING

A. Operate and adjust faucets and controls. Replace damaged and malfunctioning fixtures, fittings, and controls.

3.6 CLEANING

- A. Clean fixtures, faucets, and other fittings with manufacturers' recommended cleaning methods and materials. Do the following:
 - 1. Remove faucet spouts and strainers, remove sediment and debris, and reinstall strainers and spouts.
 - 2. Remove sediment and debris from drains.
- B. After completing installation of exposed, factory-finished fixtures, faucets, and fittings, inspect exposed finishes and repair damaged finishes.

3.7 PROTECTION

- A. Provide protective covering for installed fixtures and fittings.
- B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

3.8 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain the following:
 - 1. Drinking fountains
- B. Refer to Division 01 Section "Demonstration and Training."

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PLUMBING FIXTURES 22 4000 - 6 ADD #1 - 11/01/2021

3.9 FIXTURE HEIGHT SCHEDULE

- A. Install fixtures to heights above finished floor as indicated.
 - 1. Water Cooler:
 - a. Standard Adult: Minimum 38 inches and maximum 43 inches to spout outlet.
 - b. Barrier Free: Maximum 36 inches to spout outlet.

3.10 FIXTURE ROUGH-IN SCHEDULE

- A. Line sizes indicated below are run-out sizes, reduce size as required at connection to fixture. Main lines and drops shall be installed in sizes as indicated on drawings.
 - 1. Water Cooler:

a. Cold Water: 1/2 Inch.b. Waste: 1-1/4 Inch.c. Vent: 1-1/4 Inch.

END OF SECTION 22 4000

SECTION 32 3113 - CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Chain-link fences.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:
 - a. Fence and gate posts, rails, and fittings.
 - b. Chain-link fabric, reinforcements, and attachments.
- B. Shop Drawings: For each type of fence and gate assembly.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Include accessories, hardware, gate operation, and operational clearances.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of chain-link fence, and gate.
- B. Sample Warranty: For special warranty.

1.5 FIELD CONDITIONS

A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure to comply with performance requirements.

- b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- 2. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist according to "CLFMI Product Manual" and requirements indicated below:
 - 1. Fabric Height: As indicated on Drawings.
 - 2. Steel Wire for Fabric: Wire diameter of 0.192 inch (4.88 mm).
 - a. Mesh Size: 2 inches (50 mm).
 - b. Polymer-Coated Fabric: ASTM F668, Class 1 over aluminum -coated steel wire.
 - Color: Black, according to ASTM F934.
 - c. Coat selvage ends of metallic-coated fabric before the weaving process with manufacturer's standard clear protective coating.
 - 3. Aluminum Wire Fabric: ASTM F1183, with mill finish, and wire diameter of 0.192 inch (4.88 mm).
 - Mesh Size: 2 inches (50 mm).
 - 4. Selvage: Knuckled at both selvages.

2.3 FENCE FRAMEWORK

- A. Posts and Rails: ASTM F1043 for framework, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F1043 or ASTM F1083 based on the following:
 - 1. Fence Height: As indicated on Drawings.
 - 2. Heavy-Industrial-Strength Material: Group IA, round steel pipe, Schedule 40.
 - a. Line Post: 2.375 inches (60 mm) in diameter.
 - b. End, Corner, and Pull Posts: 2.875 inches (73 mm) in diameter.
 - 3. Horizontal Framework Members: top and bottom rails according to ASTM F1043.
 - a. Top and bottom Rails: 1.66 inches (42 mm) in diameter.
 - 4. Brace Rails: ASTM F1043.
 - Metallic Coating for Steel Framework:
 - a. Type A: Not less than minimum 2.0-oz./sq. ft. (0.61-kg/sq. m) average zinc coating according to ASTM A123/A123M or 4.0-oz./sq. ft. (1.22-kg/sq. m) zinc coating according to ASTM A653/A653M.
 - b. Type B: Zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film.

- c. External, Type B: Zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film. Internal, Type D, consisting of 81 percent, not less than 0.3-mil- (0.0076-mm-) thick, zinc-pigmented coating.
- d. Type C: Zn-5-Al-MM alloy, consisting of not less than 1.8-oz./sq. ft. (0.55-kg/sq. m) coating.
- e. Coatings: Any coating above.
- 6. Polymer coating over metallic coating.
 - a. Color: Match chain-link fabric, according to ASTM F934.

2.4 FITTINGS

- A. Provide fittings according to ASTM F626.
- B. Post Caps: Provide for each post.
 - 1. Provide line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: For each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
 - 1. Top Rail Sleeves: Pressed-steel or round-steel tubing not less than 6 inches (152 mm) long.
 - 2. Rail Clamps: Line and corner boulevard clamps for connecting bottom rails to posts.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a certified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
 - 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 CHAIN-LINK FENCE INSTALLATION

A. Install chain-link fencing according to ASTM F567 and more stringent requirements specified.

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- 1. Install fencing on established boundary lines inside property line.
- B. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- C. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Concealed Concrete: Place top of concrete 2 inches (50 mm)
- D. Terminal Posts: Install terminal end, corner, and gate posts according to ASTM F567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more. For runs exceeding 500 feet (152 m), space pull posts an equal distance between corner or end posts.
- E. Line Posts: Space line posts uniformly at 10 feet (3 m) o.c.
- F. Post Bracing and Intermediate Rails: Install according to ASTM F567, maintaining plumb position and alignment of fence posts. Diagonally brace terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
- G. Top Rail: Install according to ASTM F567, maintaining plumb position and alignment of fence posts. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- H. Bottom Rails: Secure to posts with fittings.
- Chain-Link Fabric: Apply fabric to inside of enclosing framework. Leave 2-inch (50-mm) bottom clearance between finish grade or surface and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- J. Fasteners: Install nuts for tension bands and carriage bolts on the side of fence opposite the fabric side.

3.4 GROUNDING AND BONDING

- A. Fence and Gate Grounding:
 - 1. Install ground rods and connections at maximum intervals of 1500 feet (450 m).
 - 2. Fences within 100 Feet (30 m) of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet (225 m).
- B. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a ground rod located a maximum distance of 150 feet (45 m) on each side of crossing.

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- C. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches (152 mm) below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.
- D. Connections:
 - 1. Make connections with clean, bare metal at points of contact.
 - 2. Make above-grade ground connections with mechanical fasteners.
 - 3. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

END OF SECTION 32 3113

DECORATIVE METAL FENCES AND GATES 32 3119 - 1 ADD #1 - 12/06/2021

SECTION 32 3119 - DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Decorative aluminum fences.
 - 2. Swing gates.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For fencing and gates.
 - 1. Include plans, elevations, sections, and attachment details.

1.4 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.
- B. Product test reports.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Lightning-Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

2.2 FENCING

A. Basis of Design; Aluminum Ornamental Fence, 48 inch height, Ultra Aluminum Manufacturing, Inc, Howell, Michigan, Style; UAF 200 Flat Top Commercial Fence, or approved equal.

2.3 SWING GATES

- A. Basis of Design; Aluminum Ornamental Walk Gate by Ultra Aluminum Manufacturing, Inc, Howell, Michigan, Style; UAF 200 W Commercial Walk Gate, or approved equal. Match fencing height.
- B. Aluminum Finish: Baked enamel or powder coating per manufacture.

2.4 ALUMINUM

- A. Extrusions: ASTM B221 (ASTM B221M), Alloy 6063-T5.
- B. Tubing: ASTM B429/B429M, Alloy 6063-T6.
- C. Castings: ASTM B26/B26M, Alloy A356.0-T6.

2.5 MISCELLANEOUS MATERIALS

A. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in Section 03 3000 "Cast-in-Place Concrete" with a minimum 28-day compressive strength of 3000 psi

2.6 METALLIC-COATED-STEEL FINISHES

- A. Powder Coating: Immediately after cleaning and pretreating, apply manufacturer's standard TGIC polyester powder-coat finish to a minimum dry film thickness of 2 mils (0.05 mm) or per manufactures standard
 - 1. Color and Gloss:Black.

PART 3 - EXECUTION

3.1 DECORATIVE FENCE INSTALLATION

- A. Install fences according to manufacturer's written instructions.
- B. Install fences by setting posts as indicated and fastening rails and infill panels to posts.
- C. Post Excavation: Drill or hand-excavate holes for posts in firm, undisturbed soil. Excavate holes to a diameter of not less than 4 times post size and a depth of not less than 24 inches (600 mm) plus 3 inches (75 mm) for each foot (300 mm) or fraction of a foot (300 mm) that fence height exceeds 4 feet (1.2 m).
- D. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.

DECORATIVE METAL FENCES AND GATES 32 3119 - 3 ADD #1 - 12/06/2021

1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.

3.2 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

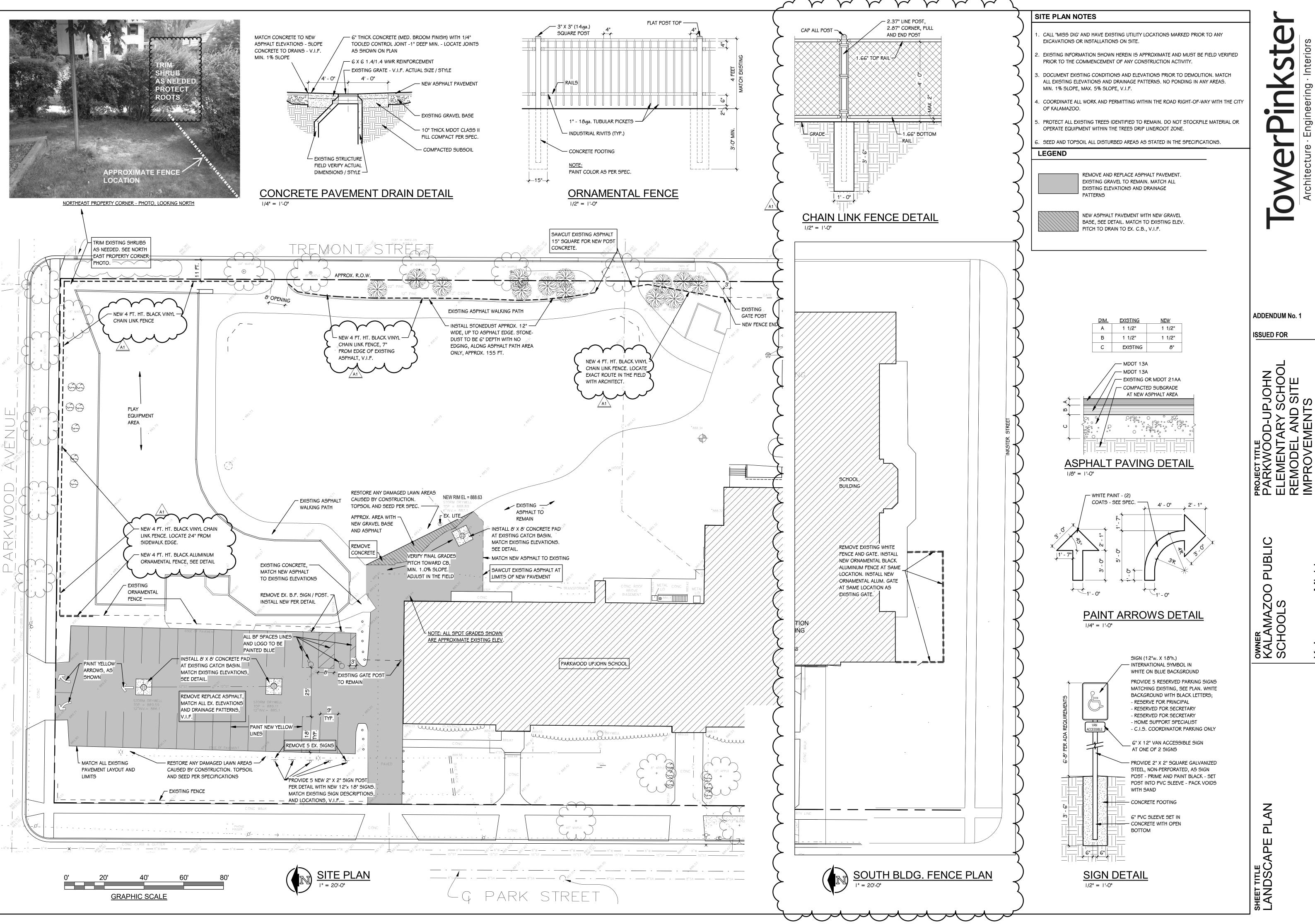
3.3 GROUNDING AND BONDING

- A. Fence Grounding: Install at maximum intervals of 1500 feet (450 m) except as follows:
 - 1. Fences within 100 Feet (30 m) of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet (225 m).
 - a. Gates and Other Fence Openings: Ground fence on each side of opening.
- B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches (150 mm) below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.
- C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact are galvanically compatible.
- E. Bonding to Lightning-Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning-protection down conductor or lightning-protection grounding conductor, complying with NFPA 780.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
 - Grounding-Resistance Tests: Subject completed grounding system to a megger test at each grounding location. Measure grounding resistance not less than two full days after last trace of precipitation, without soil having been moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural grounding resistance. Perform tests by two-point method according to IEEE 81.

END OF SECTION 32 3119



DEC. 6, 2021

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REMOVE AND DISPOSE EXISTING SS DRINKING FOUNTAIN AND PREPARE WALL

Addendum No. 1 DECEMBER 6, 2021

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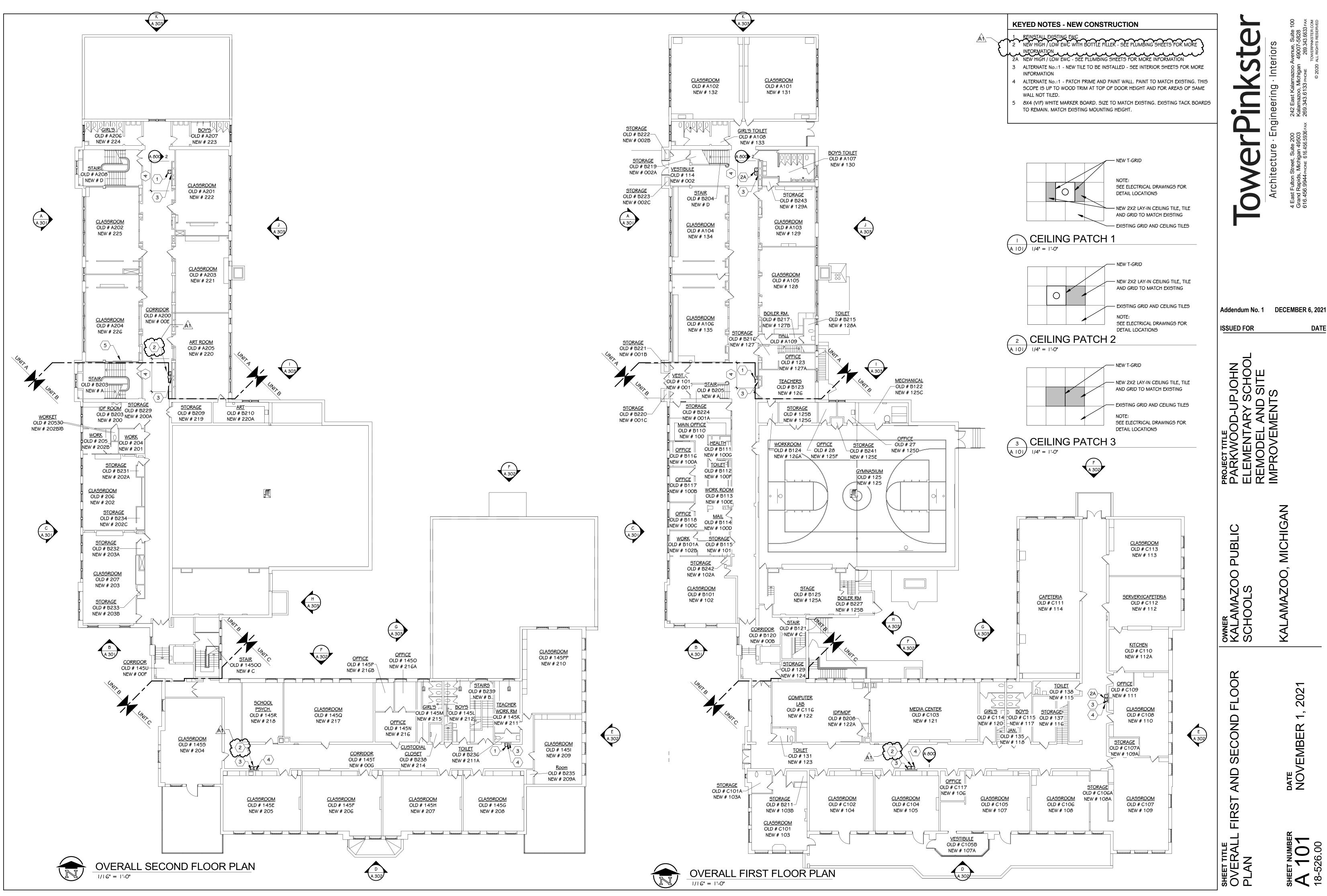
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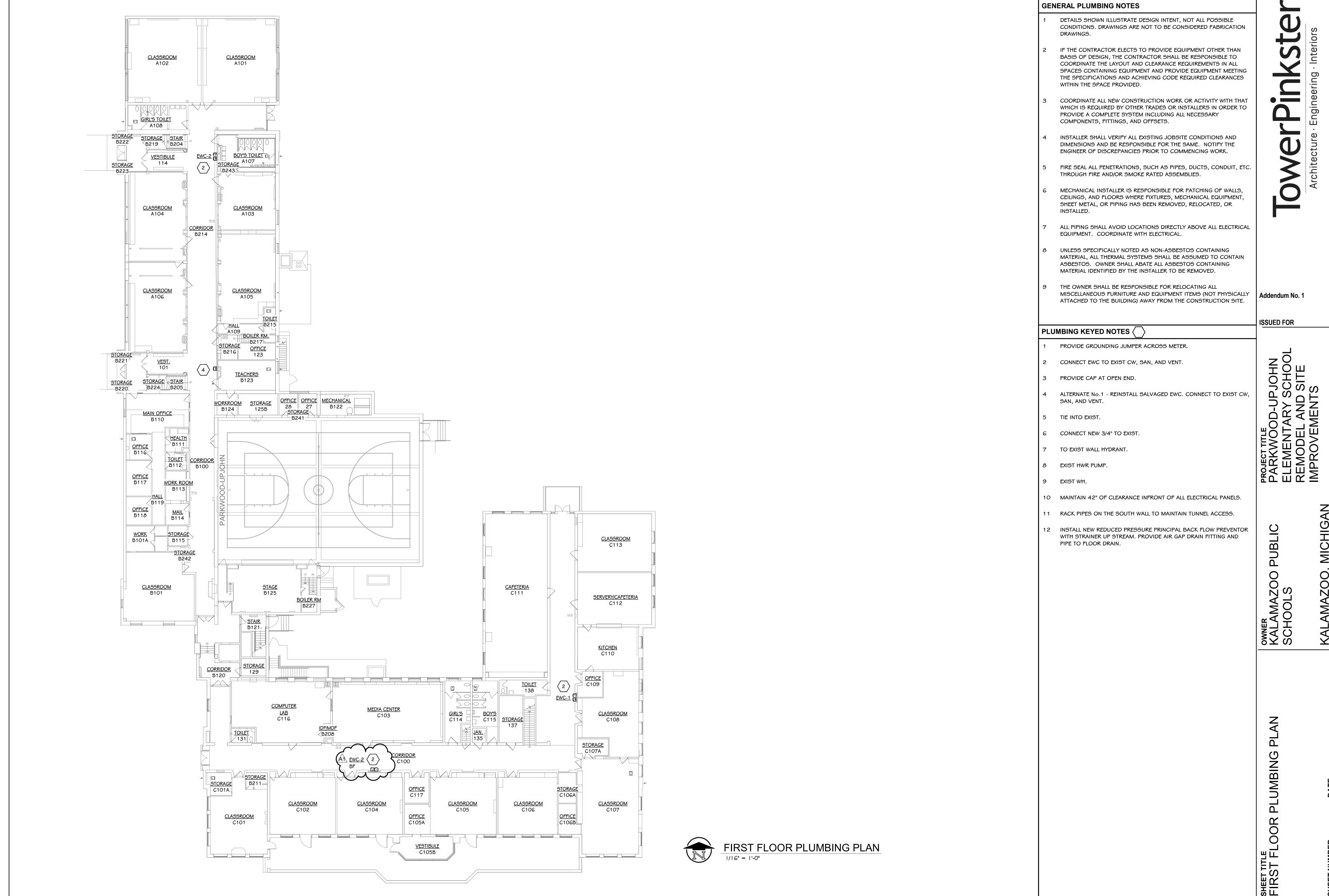


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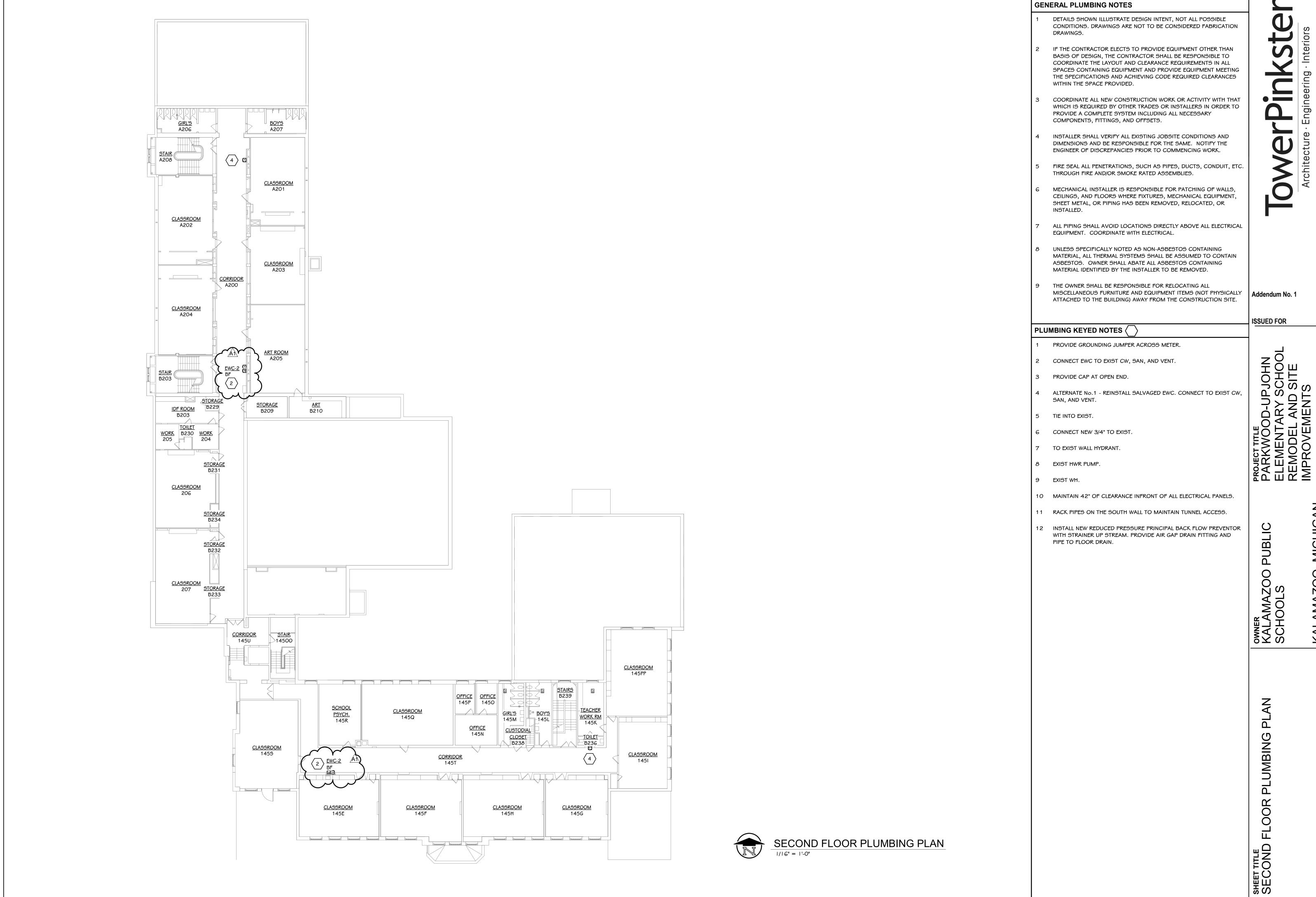
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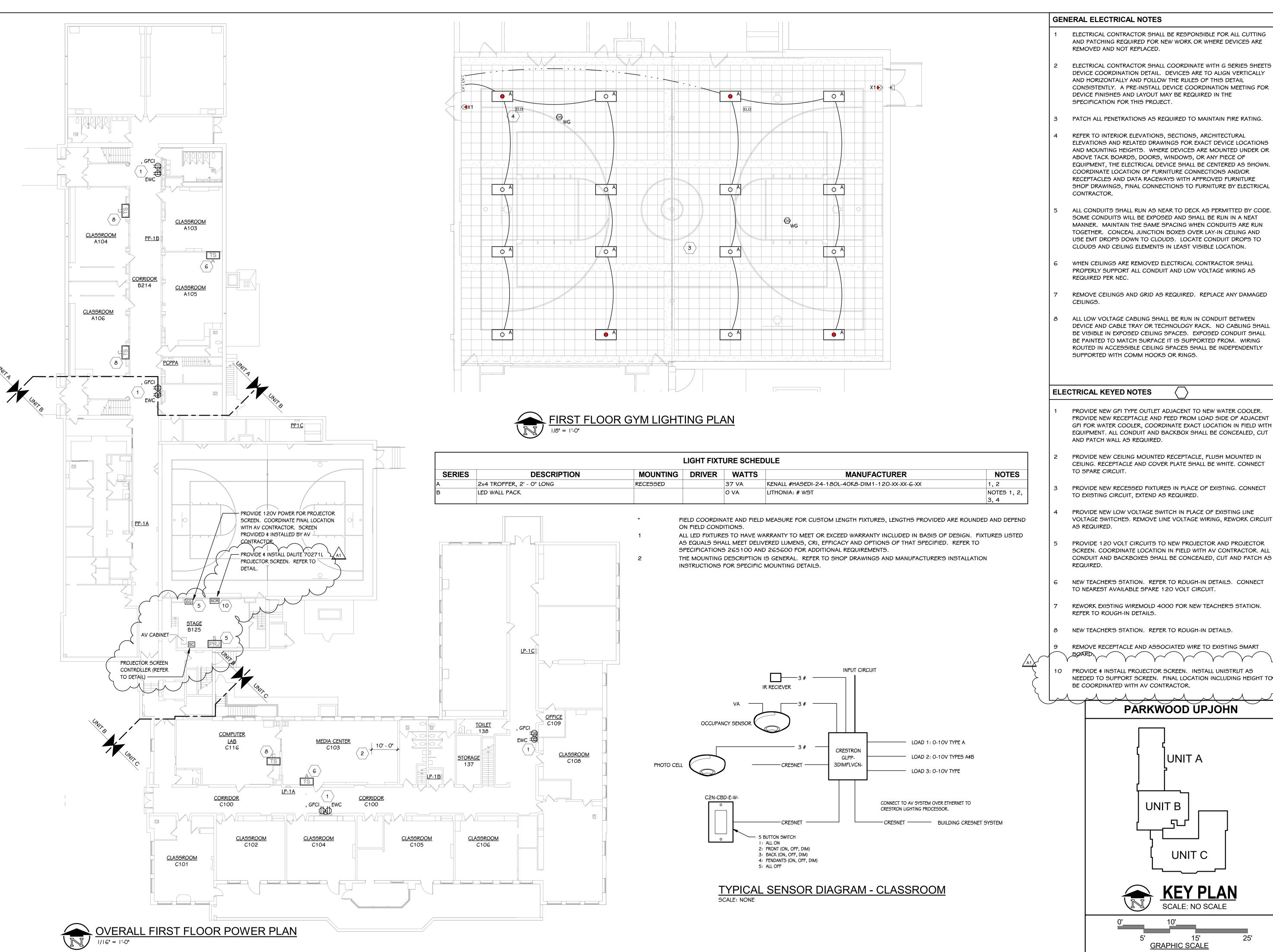
Architecture · Engineering · Interiors 4 East Fulton Street, Suite 200 Grand Rapids, Michigan 49503 616.456.9944 PHONE 616.456.5936 FAX o. 1 DECEMBER 6, 2021

REMODEL AND SIT

KALAMAZOO, MICHIGAN

DATE NOVEMBER 1, 2021

SHEET NUMBER **E** 001 18-526.00

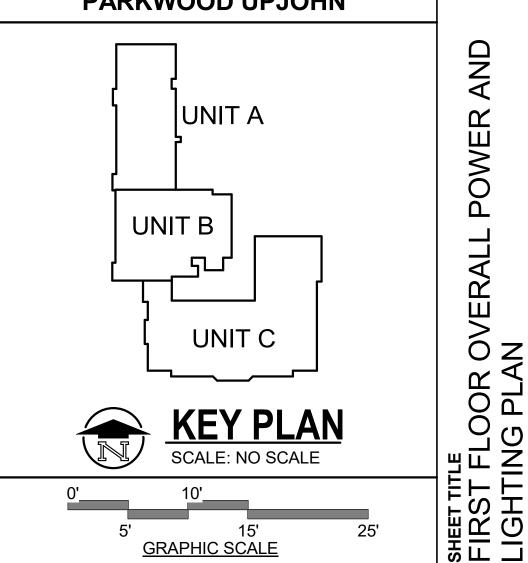


DECEMBER 6, 2021 Addendum No. 1

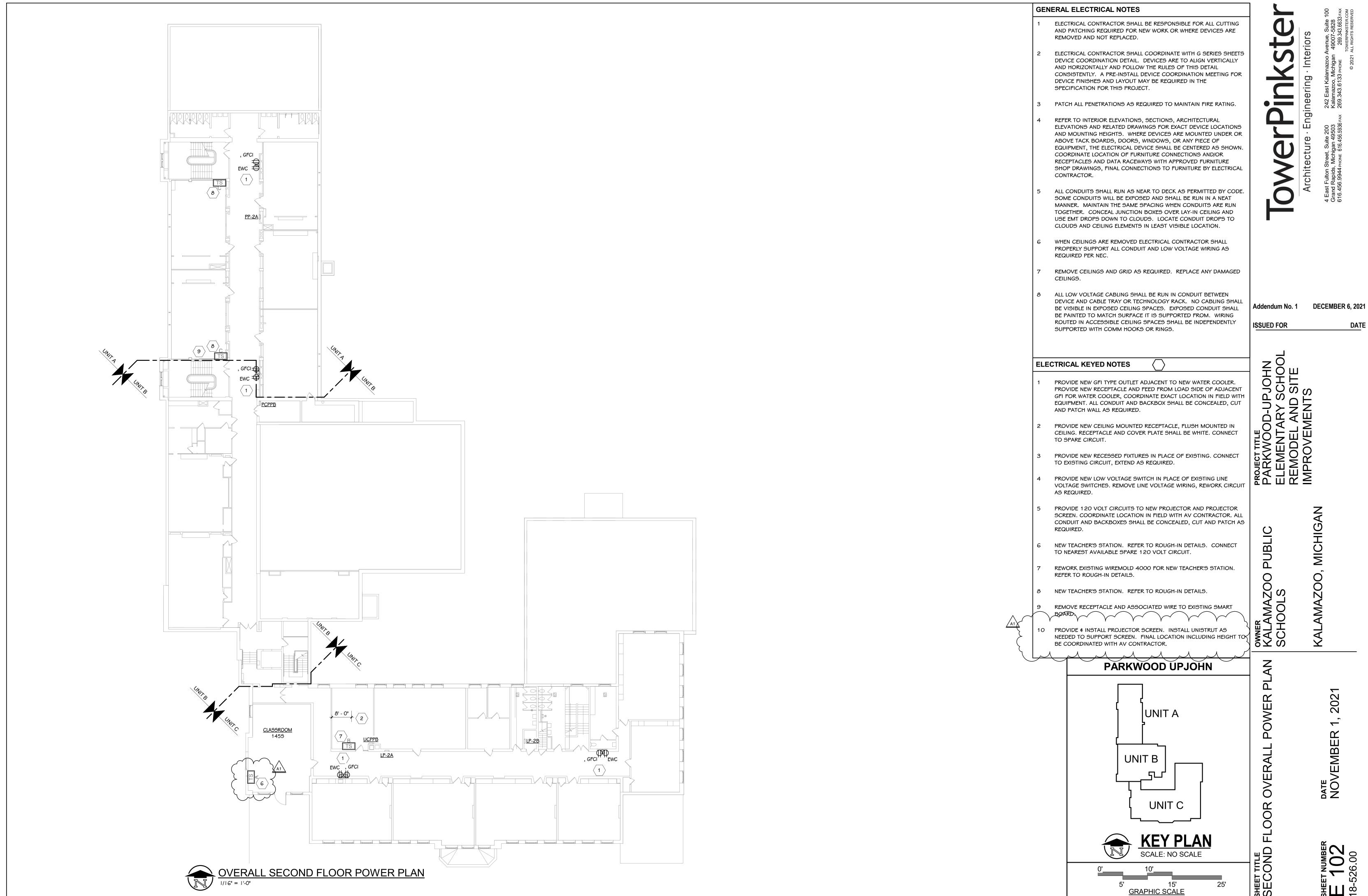
ISSUED FOR

- PROVIDE NEW GFI TYPE OUTLET ADJACENT TO NEW WATER COOLER. PROVIDE NEW RECEPTACLE AND FEED FROM LOAD SIDE OF ADJACENT GFI FOR WATER COOLER, COORDINATE EXACT LOCATION IN FIELD WITH EQUIPMENT. ALL CONDUIT AND BACKBOX SHALL BE CONCEALED, CUT AND PATCH WALL AS REQUIRED.
- PROVIDE NEW CEILING MOUNTED RECEPTACLE, FLUSH MOUNTED IN CEILING. RECEPTACLE AND COVER PLATE SHALL BE WHITE. CONNECT
- PROVIDE NEW RECESSED FIXTURES IN PLACE OF EXISTING. CONNECT TO EXISTING CIRCUIT, EXTEND AS REQUIRED.
- PROVIDE NEW LOW VOLTAGE SWITCH IN PLACE OF EXISTING LINE VOLTAGE SWITCHES. REMOVE LINE VOLTAGE WIRING, REWORK CIRCUIT
- PROVIDE 120 VOLT CIRCUITS TO NEW PROJECTOR AND PROJECTOR SCREEN. COORDINATE LOCATION IN FIELD WITH AV CONTRACTOR. ALL CONDUIT AND BACKBOXES SHALL BE CONCEALED, CUT AND PATCH AS
- NEW TEACHER'S STATION. REFER TO ROUGH-IN DETAILS. CONNECT TO NEAREST AVAILABLE SPARE 120 VOLT CIRCUIT.
- REWORK EXISTING WIREMOLD 4000 FOR NEW TEACHER'S STATION.
- NEW TEACHER'S STATION. REFER TO ROUGH-IN DETAILS.
- REMOVE RECEPTACLE AND ASSOCIATED WIRE TO EXISTING SMART
- PROVIDE & INSTALL PROJECTOR SCREEN. INSTALL UNISTRUT AS NEEDED TO SUPPORT SCREEN. FINAL LOCATION INCLUDING HEIGHT TO

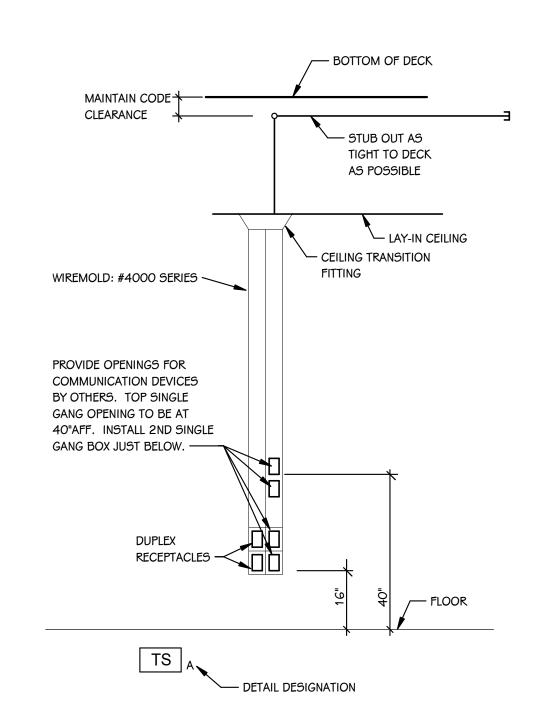
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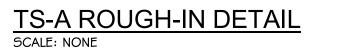


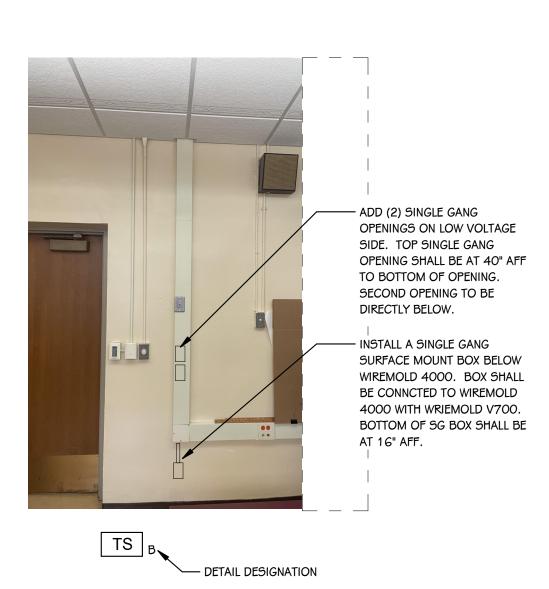
DATE NOVEMBER



DECEMBER 6, 2021

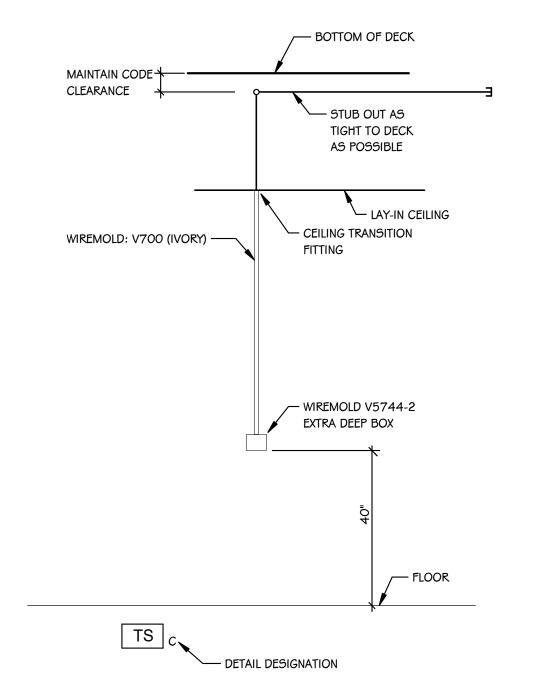




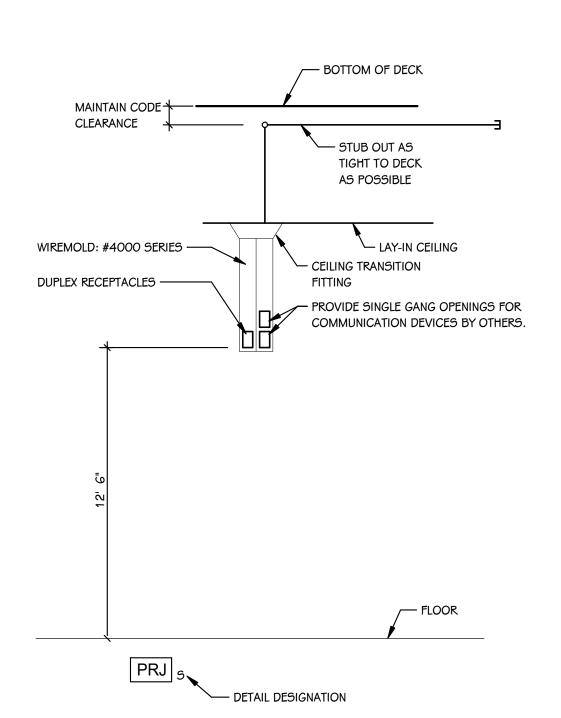


TS-B ROUGH-IN DETAIL

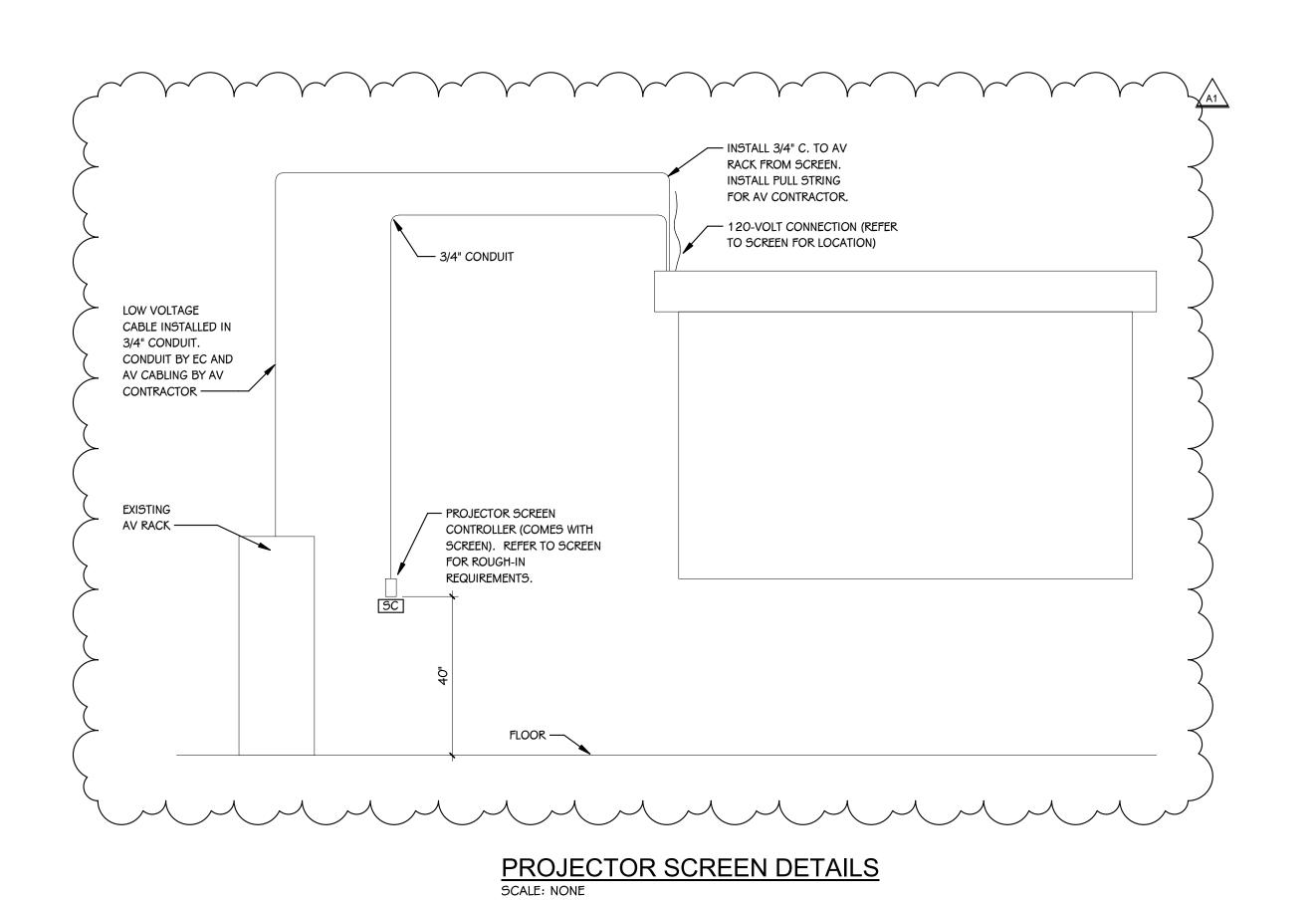
SCALE: NONE



TS-C ROUGH-IN DETAIL
SCALE: NONE



PLATFORM PROJECTOR ROUGH-IN DETAIL
SCALE: NONE



SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER **E 501** 18-526.00

DATE NOVEMBER

DECEMBER 6, 2021

DATE

Addendum No. 1

PARKWOOD-UPJOHN ELEMENTARY SCHOOL REMODEL AND SITE IMPROVEMENTS

OWNER KALAMAZOO I SCHOOLS

ISSUED FOR