## Perkins&Will

OWNER	ARCHITECT	MEP				
THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, IL 60093	PERKINS & WILL 410 N. Michigan Avenue Suite 1600 Chicago, Illinois 60611 (312)-755-0770 (TEL) (312)-755-0775 (FAX)	MSA - MECHANICAL SERVICES ASSOCIATES 111 S Virginia Street Crystal Lake, IL 60014 (815)-788-8901 (TEL) (815)-788-8908 (FAX)				

# THE WINNETKA PUBLIC SCHOOL DISTRICT 36

2025 SUMMER WORK - SHEET SCHEDULE									
SHEET NUMBER	SHEET NAME	ISSUE FOR BID   2024.12.12							
G00-01	COVER SHEET	•							
		I							
04- ARCHITECTURE									
A00-01		•							
A00-02	DOOR TYPES, DETAILS	•							
CI A00-01		•							
CI A11-00	FLOOR PLAN - LOWER LEVEL & LEVEL 01	•							
GR A00-01		•							
GR A11-00	FLOOR PLAN - LEVEL 01 SOUTH	•							
HW A00-01		•							
HW A11-00	FLOOR PLAN - LEVEL 01 NORTH	•							
S A00-01	COVER SHEET	•							
S A04-00	DEMO PLAN - LEVEL 01	•							
S A11-00	FLOOR PLAN - LEVEL 01	•							
W .A00-01	COVER SHEET	•							
W A04-03	OVERALL DEMO PLAN - LEVEL 01	•							
W A04-04	OVERALL DEMO PLAN - LEVEL 02 & 03	•							
W A11-00	OVERALL FLOOR PLAN - LEVEL 01	•							
W A11-02	OVERALL FLOOR PLAN - LEVEL 02 & 03	•							
05- MECHANICAL									
W M04-06A	MECHANICAL DEMOLITION - LEVEL 01- ZONE A								
W M04-06B	MECHANICAL DEMOLITION - LEVEL 01- ZONE A	•							
W M04-06C	MECHANICAL DEMOLITION - LEVEL 01- ZONE D								
W M04-07A	MECHANICAL DEMOLITION - LEVEL 01- ZONE C								
W M04-07B	MECHANICAL DEMOLITION - LEVEL 02- ZONE B	•							
W M04-08		•							
W M10-06A		•							
W M10-06B		•							
W M10-06C	MECHANICAL NEW WORK - LEVEL 01- ZONE C								
W M10-07A		•							
W M10-07B		•							
W M10-08	MECHANICAL NEW WORK - LEVEL 03	•							
W M20-03 W M20-04	HVAC NOTES MECHANICAL SYMBOLS, DETAILS, SCHEDULES & ABBREVIATIONS	•							
06- ELECTRICAL									
W E00-02	ELECTRICAL NOTES	•							
W E04-06A	ELECTRICAL DEMOLITION PLAN -LEVEL 01- ZONE A	•							
W E04-06B	ELECTRICAL DEMOLITION PLAN -LEVEL 01- ZONE B	•							
W E04-06C	ELECTRICAL DEMOLITION PLAN -LEVEL 01- ZONE C	•							
W E04-07A	ELECTRICAL DEMOLITION PLAN -LEVEL 07- ZONE A	•							
W E04-07B	ELECTRICAL DEMOLITION PLAN -LEVEL 02 ZONE B	•							
W E04-08	ELECTRICAL DEMOLITION PLAN -LEVEL 02 2014 D	•							
W E11-06A	ELECTRICAL NEW WORK PLAN -LEVEL 01- ZONE A	•							
W E11-06B	ELECTRICAL NEW WORK PLAN -LEVEL 01- ZONE B	•							
W E11-06C	ELECTRICAL NEW WORK PLAN -LEVEL 01- ZONE D	•							
W E11-07A	ELECTRICAL NEW WORK PLAN -LEVEL 01- ZONE C	•							
W E11-07B	ELECTRICAL NEW WORK PLAN -LEVEL 02- ZONE A	•							
W E11-08	ELECTRICAL NEW WORK PLAN -LEVEL 02- ZONE B	•							

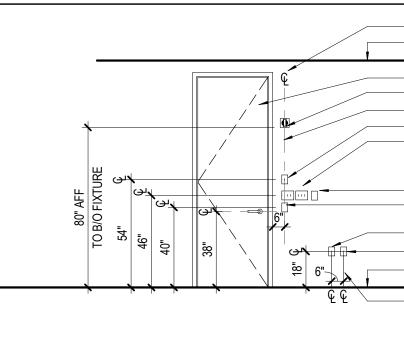


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		FINISH SCHEDULE	
PAINTS & WA PAINT	ALL COVERINGS		
PNT 1	SHERWIN WILLIAMS	FAIRFAX BROWN 2856	SHERWIN WILLIAMS
PNT 2	BENJAMIN MOORE	YELLOW	MATCH EXISTING PA
PNT 3	BENJAMIN MOORE	SOFT MINT	MATCH EXISTING PA
PNT 4	BENJAMIN MOORE	TAN	MATCH EXISTING PA
PNT 5	BENJAMIN MOORE	942 MARBLE WHITE	MATCH EXISTING PA
STAINS STF 1		-	MATCH EXISTING ST
		LINE OF 0	CEILING
	80" AF.F. TOB/OFIXTURE 54" E 46" E 18" C	EQ EQ POWER C	USTABLE SENSOR STAT COVER WHERE
			OUTLET SPACING FOR SHOWN ADJACENT

ILLIAMS FAIRFAX BROWN IS AN EXISTING COLOR TO MA
STING PAINT IN COLOR AND FINISH
STING PAINT IN COLOR AND FINISH
STING PAINT IN COLOR AND FINISH
TING PAINT IN COLOR AND FINISH

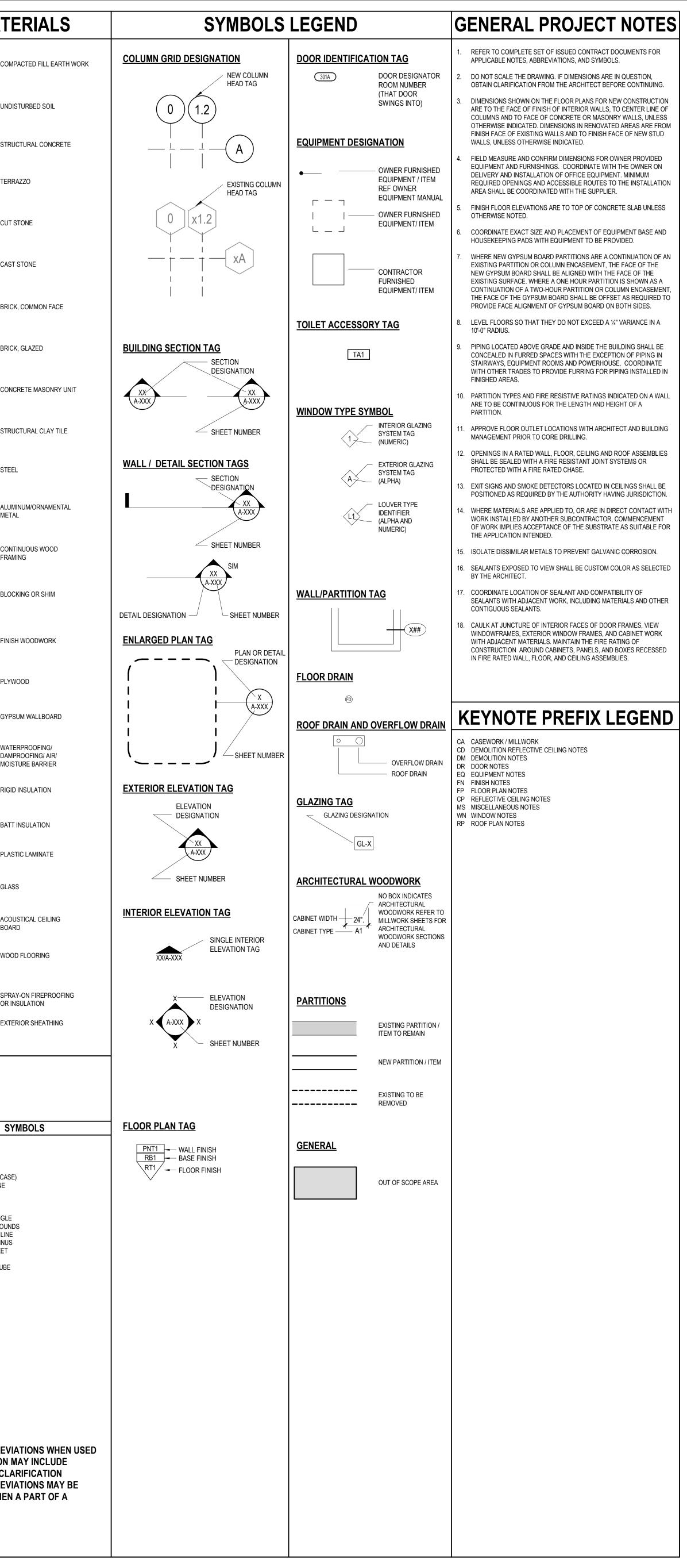
STAIN IN COLOR AND FINISH

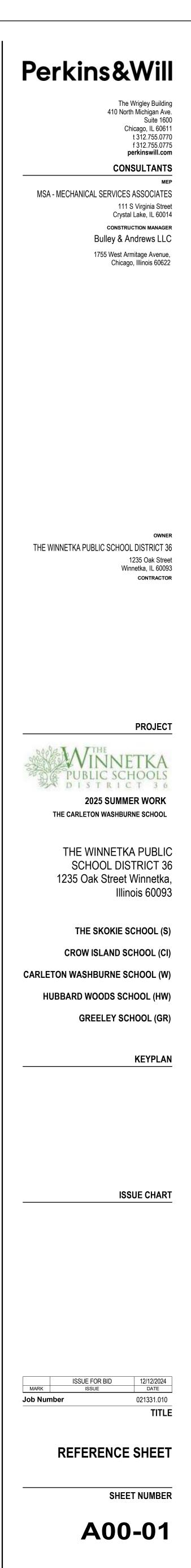


CL OF FIRST STATION

DOOR - FIRE ALARM STROBE STACK DEVICES ALONG CENTERLINE NON-ADJUSTABLE SENSOR LIGHT / DIMMER / CONTROL SWITCH, GANG MULTIPLE SWITCHES ON SINGLE PLATE, IF MORE THAN ONE SWITCH IS REQUIRED. THERMOSTAT CARD READER, DOOR RELEASE, FIRE PULL STATIONS, OR DOOR PUSH BUTTONS – POWER OUTLET - DATA / PHONE OUTLET LINE OF FINISHED FLOOR ———— FF - TYPICAL OUTLET SPACING FOR OUTLETS SHOWN ADJACENT NOTE: DO NOT LOCATE THERMOSTAT OVER DIMMERS RELEASING HEAT

ABB	REVIATIONS	MAT
ACT AFF AHU	ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR AIR HANDLING UNIT	
ALT ALUM APPROX ARCH	ALTERNATE ALUMINUM APPROXIMATE ARCHITECT(URAL), ARCHITECT	
BLDG CF/CI	BUILDING CONTRACTOR FURNISHED,	<u>                                    </u>
CF/OI CFMF	CONTRACTOR INSTALLED CONTRACTOR FURNISHED, OWNER INSTALLED COLD-FORMED METAL	
CG CIP CJ CL	FRAMING CORNER GUARD CAST-IN-PLACE CONTROL JOINT CENTER LINE	
CLG CLR cm CMU	CEIVIER LINE CEILING CLEAR CENTIMETER CONCRETE MASONRY UNIT	
COL CONC COORD	COLUMN CONCRETE COORDINATE	CA
DBL DEG DEMO DIA	DOUBLE DEGREE DEMOLISH, DEMOLITION DIAMETER	BR
DIM DISP DS DWG	DIMENSION DISPENSER DOWNSPOUT DRAWING	BR
E EA EJ	EAST EACH EXPANSION JOINT	
EL ELEC ELEV EOS EQ	ELEVATION ELECTRIC(AL) ELEVATOR EDGE OF SLAB EQUAL	
EQ EQUIP EW EXIST EXT	EQUAL EQUIPMENT EACH WAY EXISTING EXTERIOR	ST
FD FDC FE	FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER	ST
FEC FF FHC FIN	FIRE EXTINGUISHER CABINET FINISH FACE FIRE HOSE CABINET FINISH(ED)	ALL ME
FLR FP FRTW FT	FLOOR FIRE PROTECTION/ FIREPROOF FIRE RETARDANT TREATED WOOD FOOT (FEET)	CCC FR
FTG FURN GA	FOOTING FURNISH, FURNITURE GAGE	BL
GALV GFRC GFRG	GALVANIZED GLASS FIBER REINFORCED CONCRETE GLASS FIBER REINFORCED GYPSUM	
GL GLU LAM GYP BD GYP PLAS	GLASS GLUED LAMINATED WOOD GYPSUM BOARD GYPSUM PLASTER	
H HM HORIZ	HIGH HOLLOW METAL HORIZONTAL	
HP HT HVAC	HIGH POINT HEIGHT HEATING, VENTILATION, AIR CONDITIONING	GY
ID INSUL INT	INSIDE DIAMETER INSULATION INTERIOR	— — — — — WA DA MC
L LAM LF	LONG, LENGTH LAMINATE(D) LINEAR FOOT, (FEET)	
LP LVR MAX	LOW POINT LOUVER METER MAXIMUM	ВА
MAX MECH MEP	MAXIMUM MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING MANUFACTURER	PL.
MIN MISC mm MO	MINIMUM MISCELLANEOUS MILLIMETER MASONRY OPENING	GL
MTL N NIC	METAL NORTH NOT IN CONTRACT	
NOM NTS OC	NOMINAL NOT TO SCALE ON CENTER	
od of/ci of/oi oph	OUTSIDE DIAMETER OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED OPPOSITE HAND	SP OR EX
PCC PERF PLAM PLBG	PRE-CAST CONCRETE PERFORATED PLASTIC LAMINATE PLUMBING	
PNT PREFAB PROJ PROP	PAINT PREFABRICATE(D) PROJECT PROPERTY	
PSF PSI QTY	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH QUANTITY	5
R RCP RD	RADIUS, RISER REFLECTED CEILING PLAN ROOF DRAIN	& AND ∠ ANGLE @ AT X BY (LOWERCA ♀ CENTER LINE
REINF REQ(D) REV RM RO	REINFORCE, REINFORCING REQUIRE, REQUIRED REVISION ROOM ROUGH OPENING	EANNEL     CHANNEL     X° DEGREE     Ø DIAMETER     ⊥ DOUBLE ANGL
S SCHED SECT	SOUTH SCHEDULE SECTION	# NUMBER, POU ₽ PROPERTY LIN ± PLUS OR MINU ↓ SQUARE FEET
SF SIM SPEC SST	SQUARE FOOT(FEET) SIMILAR SPECIFICATION STAINLESS STEEL	│ ZEE □ COLUMN; TUBI / DIVIDED BY
STC STD STRUCT	SOUND TRANSMISSION CLASS STANDARD STRUCTURAL	
T T/ T&G TEMP THK TYP	TREAD TOP OF TONGUE & GROOVE TEMPORARY THICK TYPICAL	
U UL UNO	HEAT TRANSFER COEFFICIENT UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE	
VERT VIF W	VERTICAL VERIFY IN FIELD WEST	NOTE 1: ABBREV
W/ W/O WD WWF	WEST WITH WITHOUT WOOD WELDED WIRE FABRIC	IN COMPOSITION PERIODS FOR CL NOTE 2: ABBREN
WWM X	WELDED WIRE MESH BY	DIFFERENT WHE

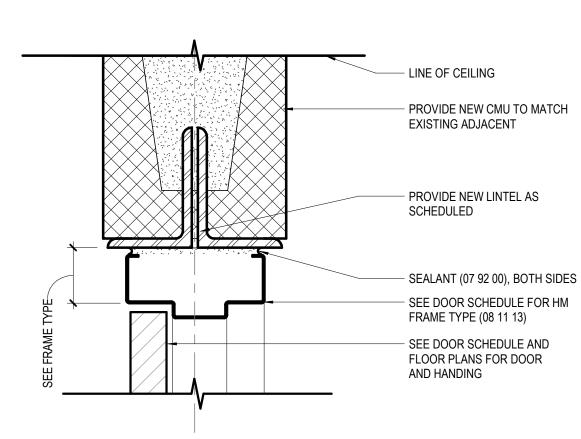




			LINTEL SCHEDULE					
MARK	MEMBER SIZE	BEARING PL.	WALL TYPE					
L-1	(2) L5x3 <sup>1</sup> / <sub>2</sub> x <sup>5</sup> / <sub>16</sub> LLV	1.5	EX. 8" CMU NON-LOAD-BEARING WALL					

NOTES: 1.SEE ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, LINTEL ELEVATIONS, AND ADDITIONAL LINTEL INFORMATION. 2.ALL OPENINGS IN MASONRY WALLS, NEW & EXISTING, WHERE REQUIRED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION TRADES SHALL BE PROVIDED WITH A LINTEL PER THE REQUIREMENTS OF THE LINTEL SCHEDULE PER EACH WALL TYPE. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR OPENING LOCATIONS, SIZES AND WALL THICKNESSES. 3. INSTALL ANGLE LINTELS LONG LEGS VERTICAL, U.N.O.

4. PROVIDE 8" MINIMUM BEARING AT EACH END OF ANGLE LINTELS, U.N.O.



## 6H HEAD @ CMU WALL



EXISTING FACE BRICK EXISTING MASONRY WALL

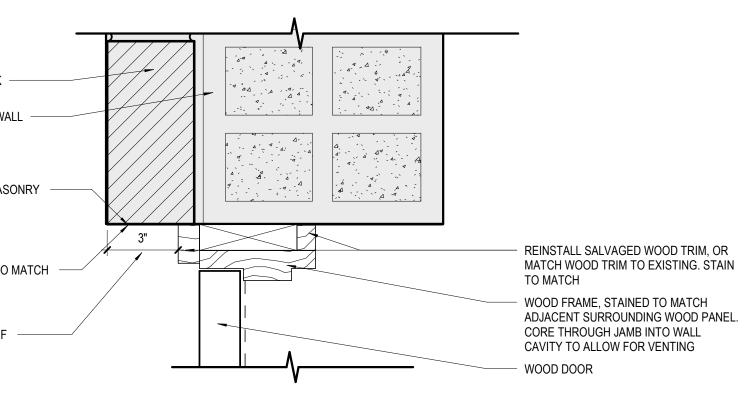
REPAIR ADJACENT MASONRY FINISH AT JAMB

PT EXISTING LINTEL TO MATCH EXISTING ADJACENT

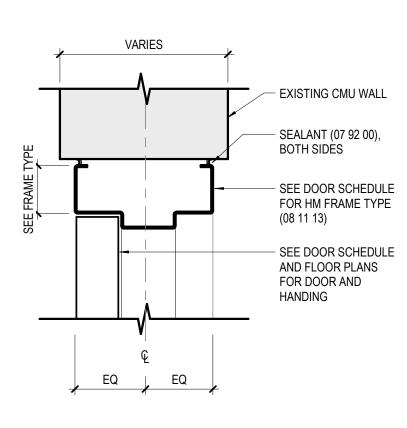
V.I.F., MATCH INSET OF EXISTING FRAME



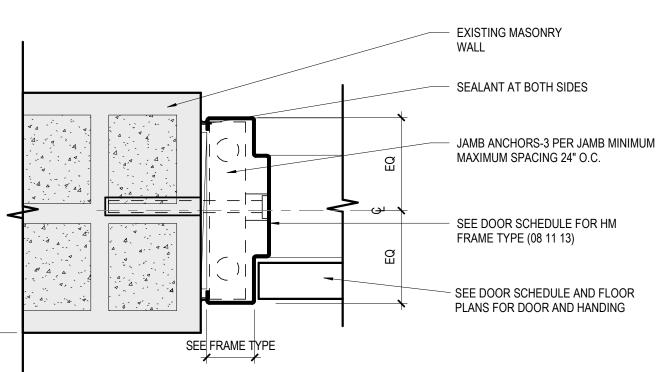
## WD HEAD/ JAMB @ EXISTING MASONRY



## 5H HEAD @ EXISTING CMU WALL 3" = 1'-0"

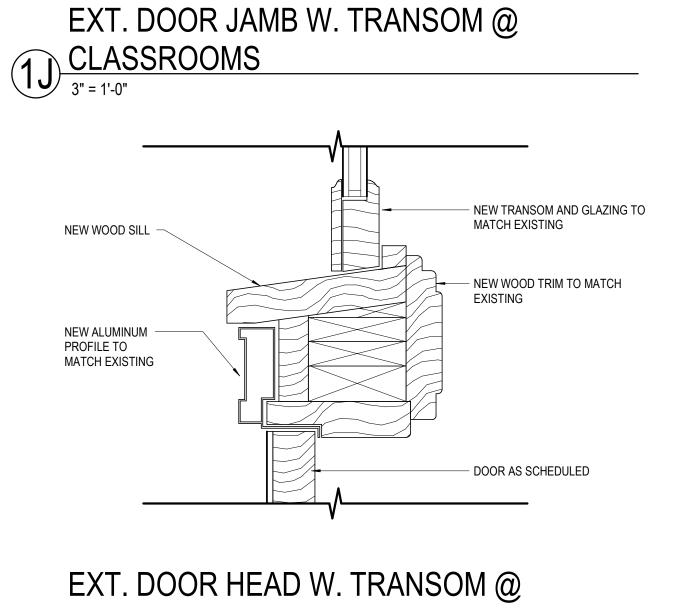


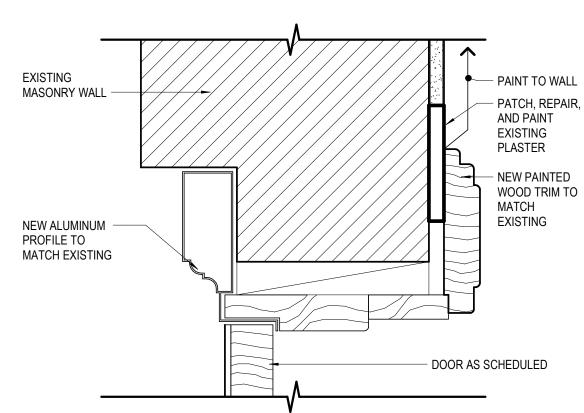
## 5J JAMB @ EXISTING CMU WALL



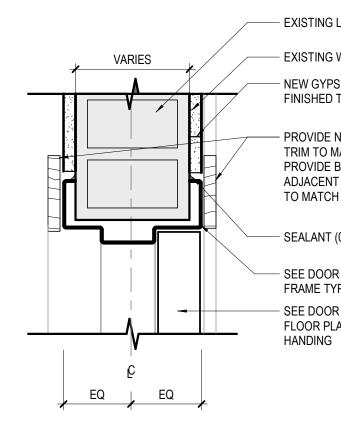
OPENING S	SIZE RE	MARKS	
6'-4" MAX.			

# TH CLASSROOMS

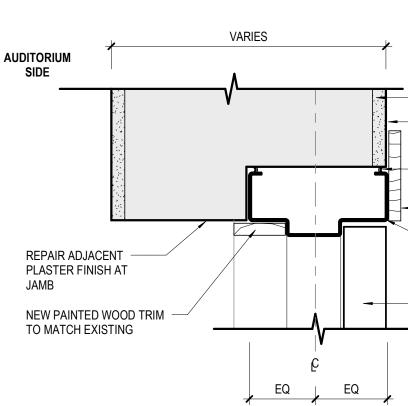




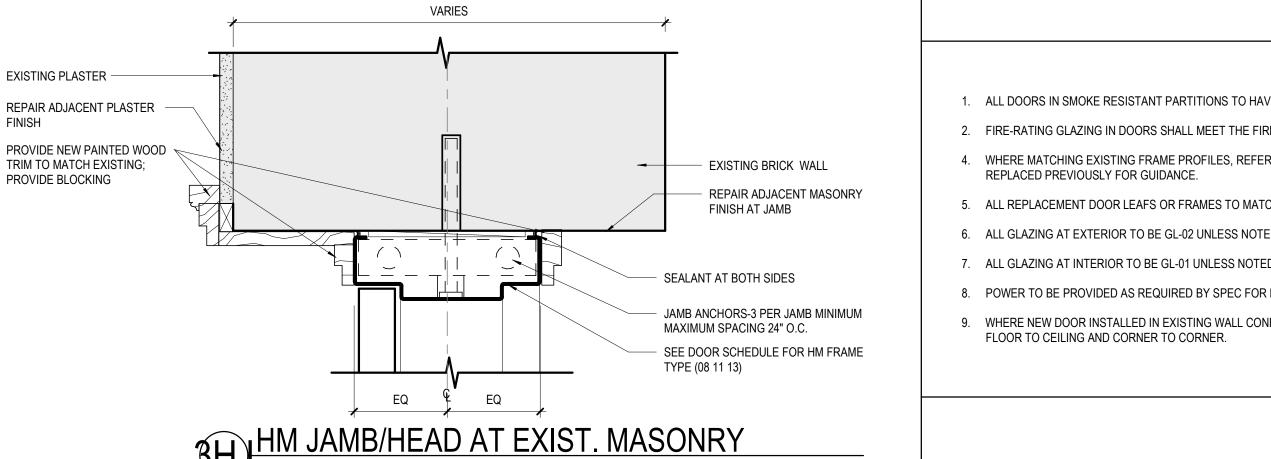
## 2H AUDITORIUM HEAD DETAIL 3" = 1'-0"



## 2J AUDITORIUM JAMB DETAIL 3" = 1'-0"



## 3HJ HM JAMB/HEAD AT EXIST. MASONRY



CORRII SIDI	
•	EXISTING WALL
	REPAIR ADJACENT PLASTER FINISH AT JAMB
	SEALANT (07 92 00), BOTH SIDES
- 	<ul> <li>PROVIDE NEW PAINTED WOOD TRIM TO MATCH EXISTING, PROVIDE BLOCKING</li> <li>SEE DOOR SCHEDULE FOR HM FRAME TYPE (08 11 13). PAINT TO MATCH EXISTING FINISH AND COLOR</li> <li>SEE DOOR SCHEDULE AND FLOOR PLANS FOR DOOR AND HANDING</li> </ul>

- EXISTING LINTEL; VIF - EXISTING WALL

- NEW GYPSUM, PATCHED AND FINISHED TO MATCH EXISTING - PROVIDE NEW PAINTED WOOD

TRIM TO MATCH EXISTING; PROVIDE BLOCKING. REPAIR ADJACENT SURFACES. PAINT TO MATCH EXISTING.

- SEALANT (07 92 00), BOTH SIDES

- SEE DOOR SCHEDULE FOR HM FRAME TYPE (08 11 13) SEE DOOR SCHEDULE AND FLOOR PLANS FOR DOOR AND



## **GENERAL NOTES**

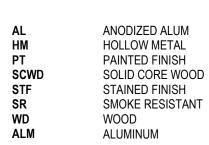
- 1. ALL DOORS IN SMOKE RESISTANT PARTITIONS TO HAVE POSITIVE LATCHING.
- 2. FIRE-RATING GLAZING IN DOORS SHALL MEET THE FIRE RATING REQUIREMENT OF THE DOORS TO WHICH THEY ARE INSTALLED.
- 4. WHERE MATCHING EXISTING FRAME PROFILES, REFER TO EXISTING ALUMINUM CLAD WINDOWS ALONG SOUTHEAST WING WHICH HAVE BEEN
- 5. ALL REPLACEMENT DOOR LEAFS OR FRAMES TO MATCH EXISTING PROFILES UNLESS NOTED OTHERWISE.
- 6. ALL GLAZING AT EXTERIOR TO BE GL-02 UNLESS NOTED OTHERWISE.
- 7. ALL GLAZING AT INTERIOR TO BE GL-01 UNLESS NOTED OTHERWISE.
- 8. POWER TO BE PROVIDED AS REQUIRED BY SPEC FOR DOOR HOLD OPENS AND MOTORIZED OVERHEAD DOOR
- 9. WHERE NEW DOOR INSTALLED IN EXISTING WALL CONDITION, PATCH TO MATCH AT BOTH SIDES OF OPENING. PAINT BOTH SIDES OF OPENING FROM

## REMARKS

1. V.I.F. DIMENSIONS OF ALL EXISTING OPENING(S)

## DOOR SCHEDULE ABBREVIATIONS

### **GENERAL ABBREVIATIONS:**



### **GLAZING TYPES:** GL-1: EXTERIOR, INSULATED GL-2: EXTERIOR, INSULATED IMPACT-RESISTANT GL-3:INTERIOR, LAMINATED

GL-4: INTERIOR, FIRE -RATED

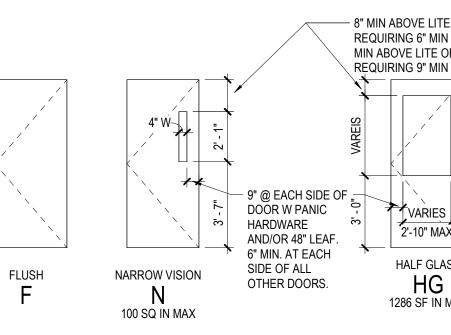
## DOOR TYPES

- 8" MIN ABOVE LITE OF DOORS REQUIRING 6" MIN SIDES. 9" MIN ABOVE LITE OF DOORS

REQUIRING 9" MIN SIDES

2'-10" MAX

HALF GLASS



SEE SCHED

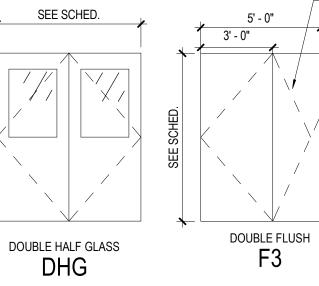
DOUBLE FLUSH

DF/F2

1286 SF IN MAX SEE SCHED. SEE SCHED.

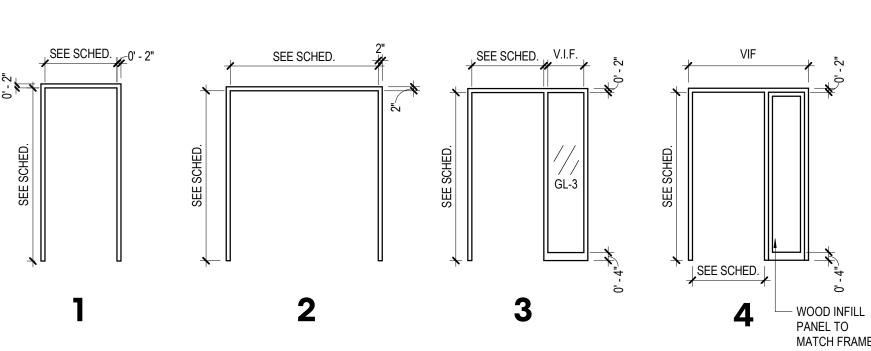
DOUBLE NARROW LITE

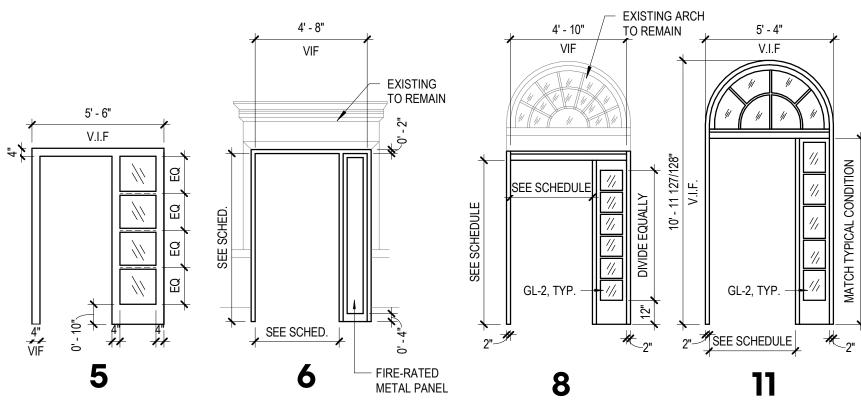
DN/N2

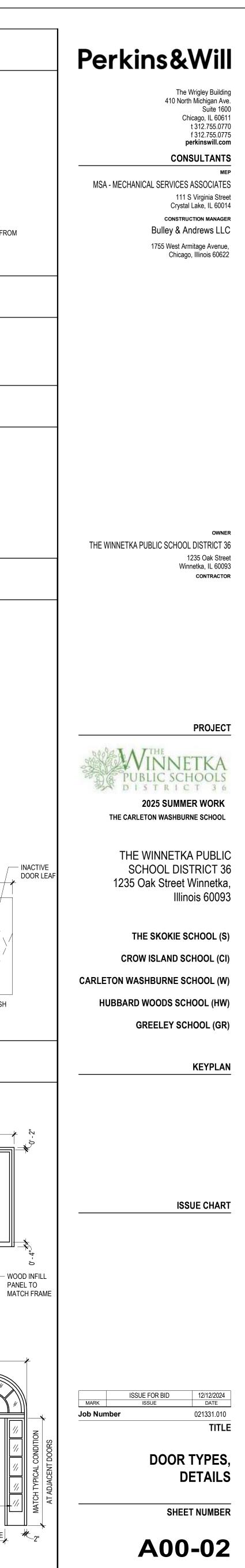


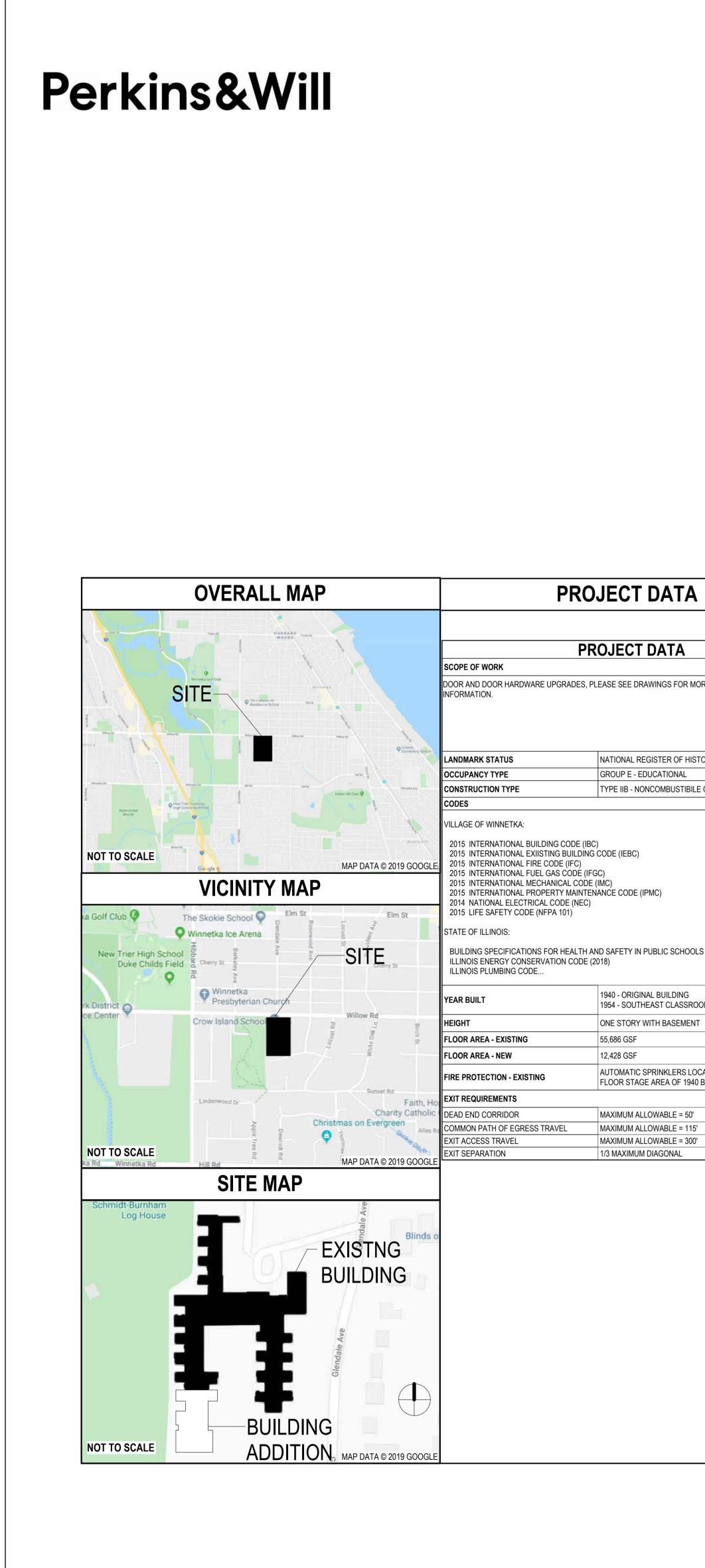
F3

## DOOR TYPES





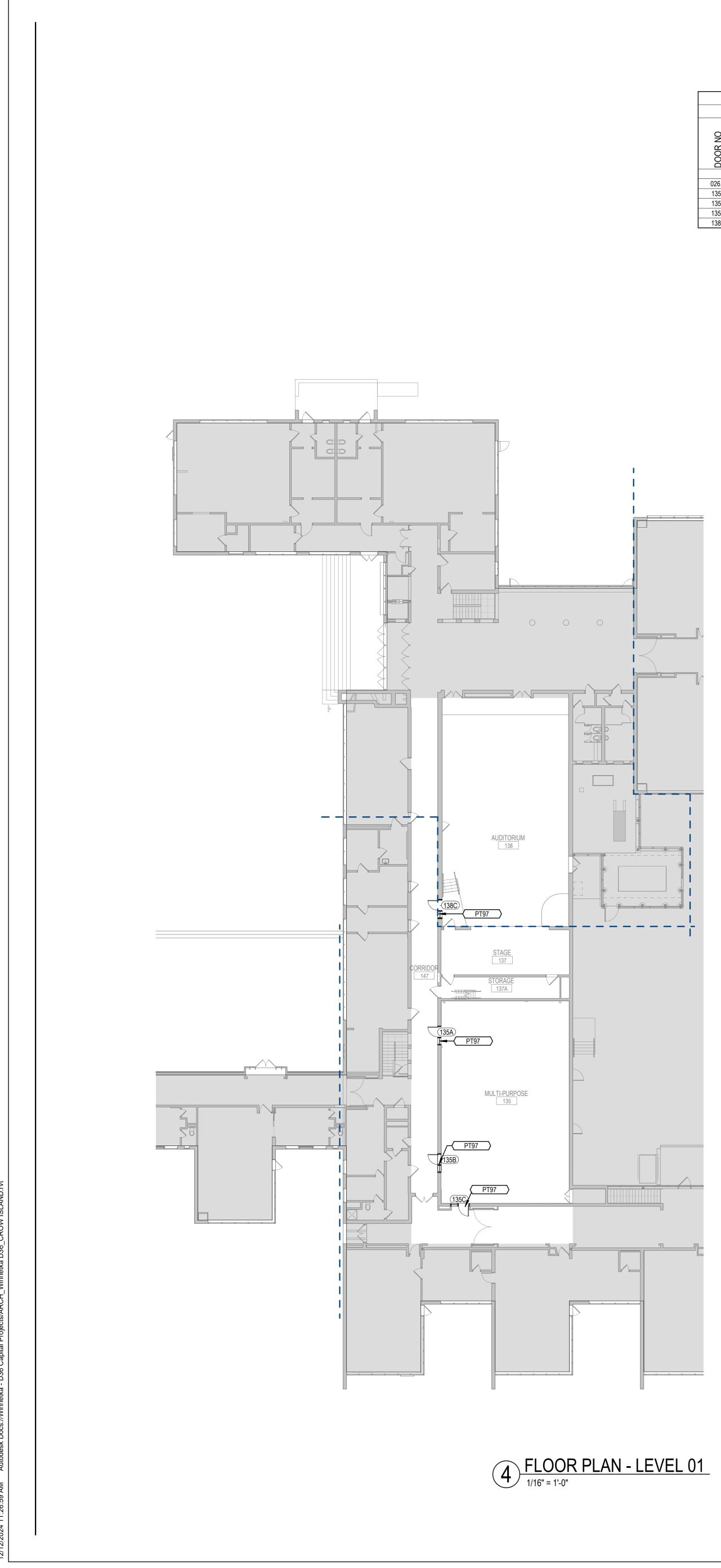




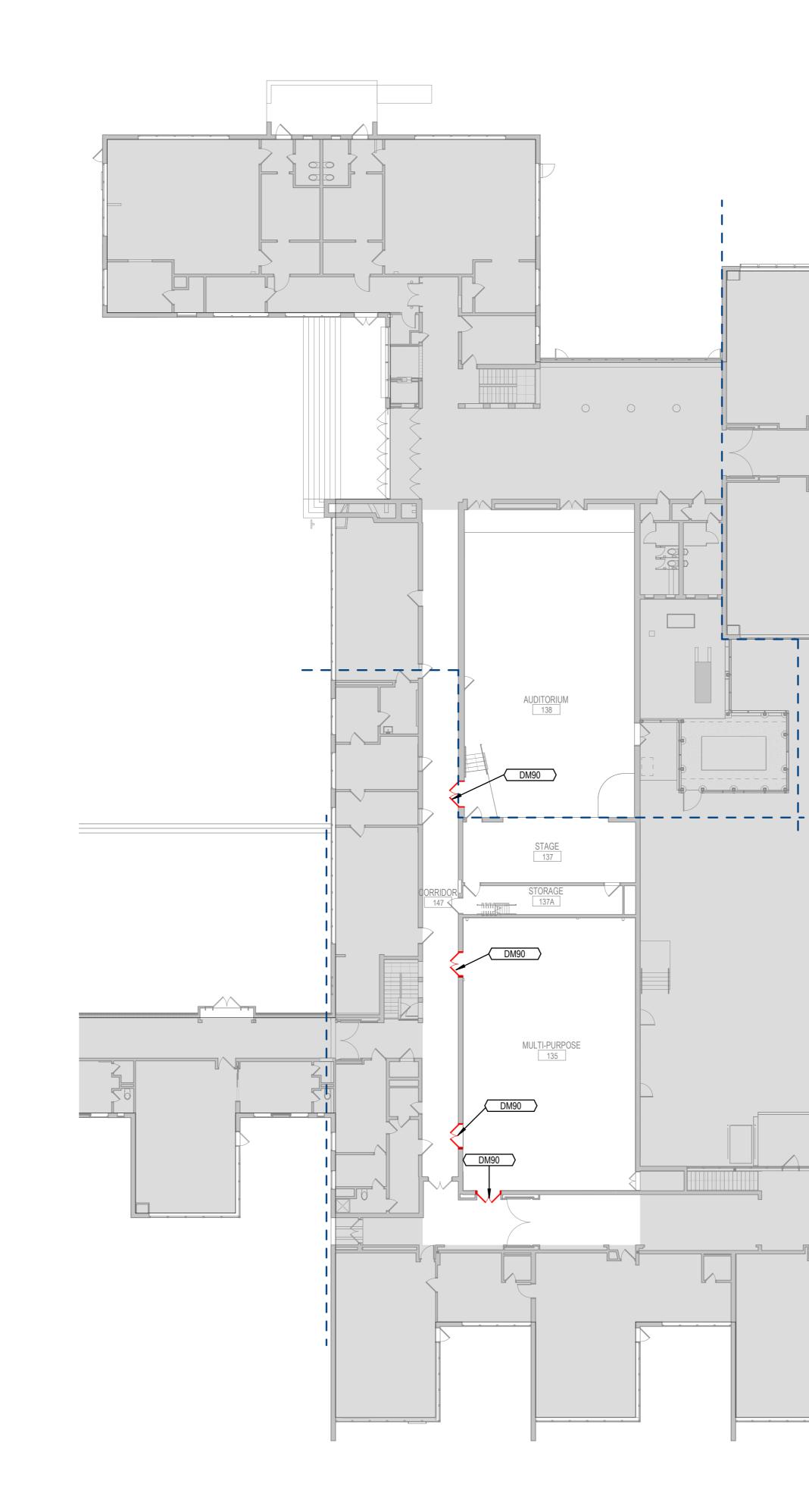


TA
S FOR MORE
R OF HISTORIC PLACES ONAL
BUSTIBILE CONSTRUCTION
SCHOOLS - 23 ILL. ADM. CODE 180
LDING CLASSROOM ADDITION
ASEMENT
LERS LOCATED IN BASEMENT AND 1ST
OF 1940 BUILDING
LE = 50' LE = 115'
LE = 300'
NAL

## **2025 SUMMER WORK CROW ISLAND SCHOOL** The Winnetka Public Schools District 36 1112 Willow Road Winnetka, Illinois 60093

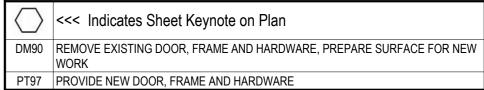


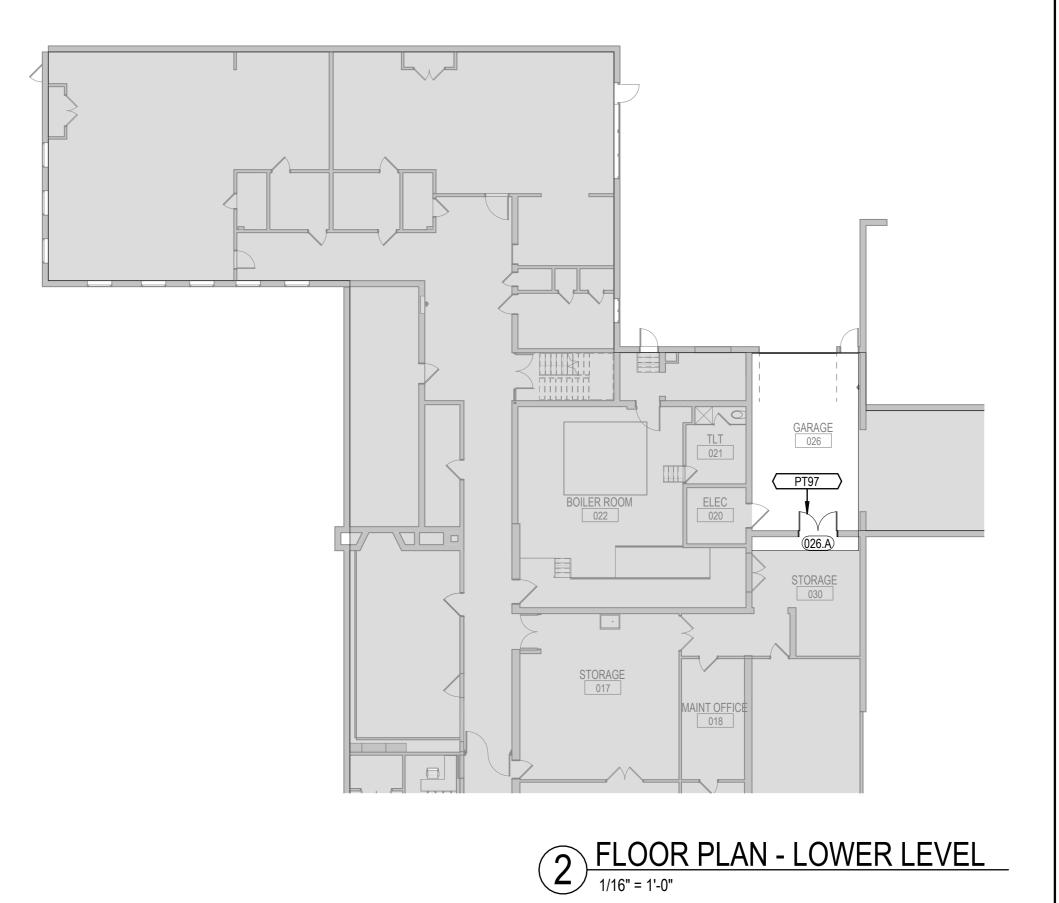
DOOR SCHEDULE													DOOR S	CHEDULE			
	MARK			DO				DOOR DOOR					FRAME				
			Щ	NG		SIZE								DETAILS		AILS	
DOOR NO	ROOM NAME	ROOM #	HARDWARE	FIRE RATI	W	HT	ТНК	TYPE	MATL	FINISH	GLZ	TYPE	MATL	FINISH	HEAD	JAMB	REMARKS
026.A	GARAGE	026	E1.00	90 MIN	6' - 4"	8' - 8"	0' - 1 3/4"	DF	НМ	PT-1	-	2	HM	PT-1	5H	5J	PT: TO MATCH EXISTING IN COLOR AND FINISH
135A	CORRIDOR	147	AC1.00	20 MIN	3' - 0"	7' - 4"	0' - 1 3/4"	F	WD	PT-2	GL-1	3	WD	STF-1	4HJ	4HJ	PT AND STF: TO MATCH EXISTING IN COLOR AND FINISH
135B	CORRIDOR	147	2.01	20 MIN	3' - 0"	7' - 4"	0' - 1 3/4"	F	WD	PT-2	GL-1	3	WD	STF-1	4HJ	4HJ	PT AND STF: TO MATCH EXISTING IN COLOR AND FINISH
135C	MULTI-PURPOSE	135	AC1.00	20 MIN	3' - 0"	7' - 4"	0' - 1 3/4"	F	WD	PT-2	GL-1	3	WD	STF-1	4HJ	4HJ	PT AND STF: TO MATCH EXISTING IN COLOR AND FINISH
138C	CORRIDOR	147	2.00	20 MIN	3' - 0"	7' - 4"	0' - 1 3/4"	F	WD	PT-3	-	4	WD	STF-1	4HJ	4HJ	PT AND STF: TO MATCH EXISTING IN COLOR AND FINISH

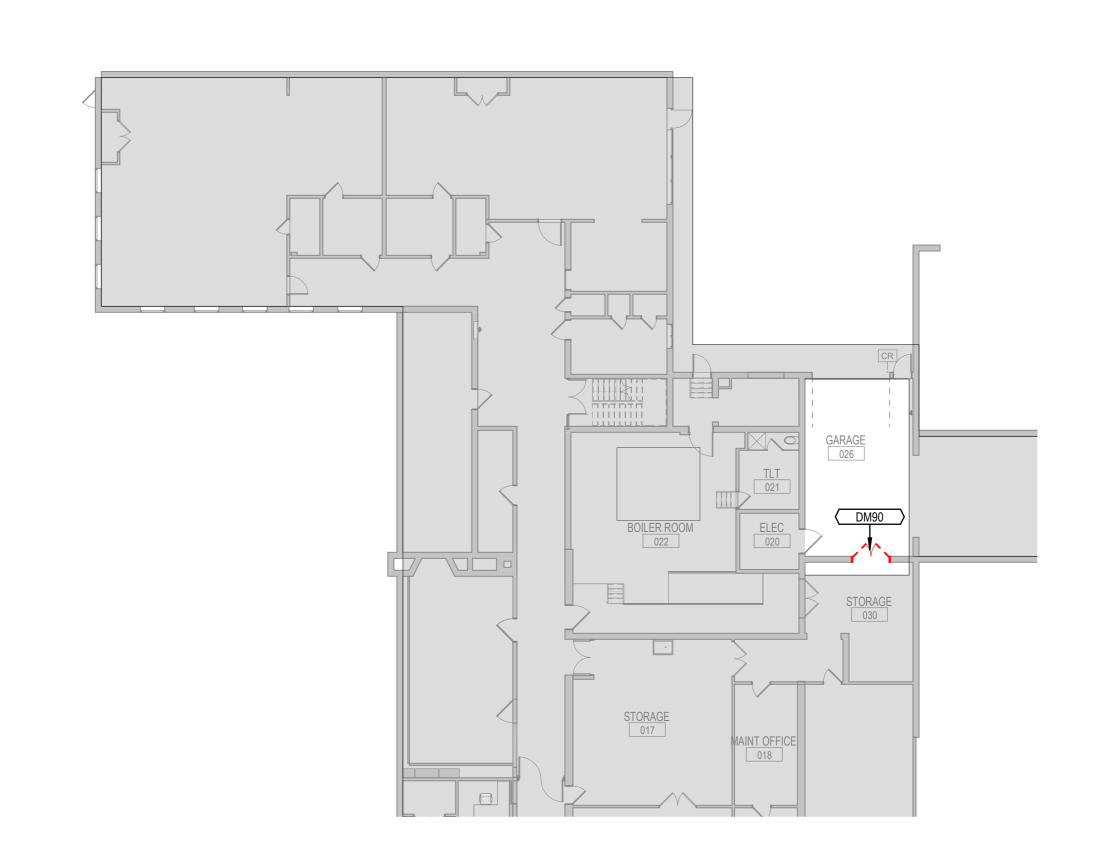


3 <u>DEMO PLAN - LEVEL 01</u> 1/16" = 1'-0"











Perkins&Will

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CONSTRUCTION MANAGER Bulley & Andrews LLC 1755 West Armitage Ave, Chicago, IL, 60622

> OWNER District 36 Board of Education 1235 Oak St, Winnetka, IL 60093 CONTRACTOR

> > PROJECT

WINNETKA PUBLIC SCHOOLS DISTRICT 36

2025 SUMMER WORK CROW ISLAND SCHOOL

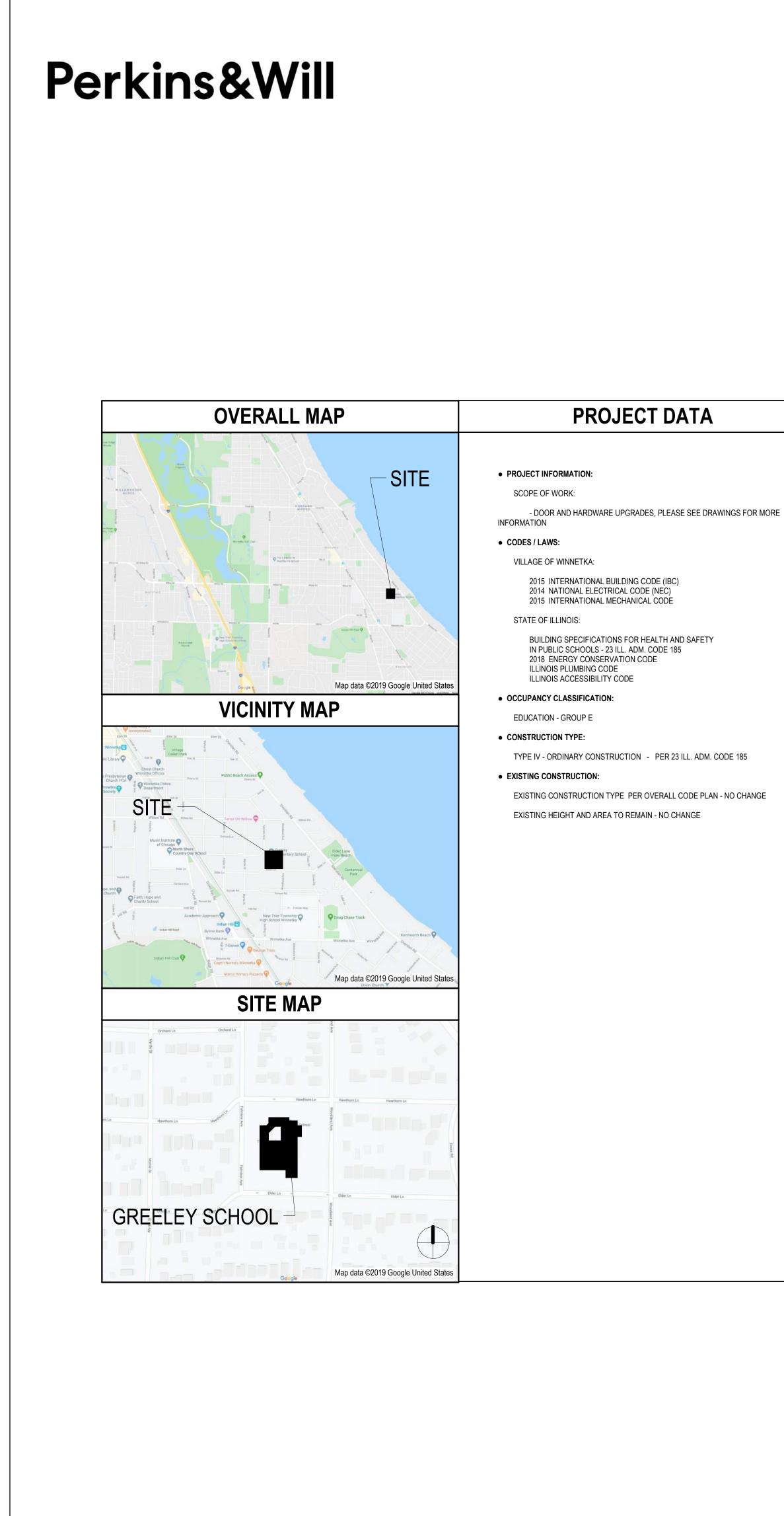
District 36 Board of Education

1112 Willow Rd, Winnetka, IL 60093

THE SKOKIE SCHOOL (S) CROW ISLAND SCHOOL (CI) CARLETON WASHBURNE SCHOOL (W) HUBBARD WOODS SCHOOL (HW) GREELEY SCHOOL (GR)

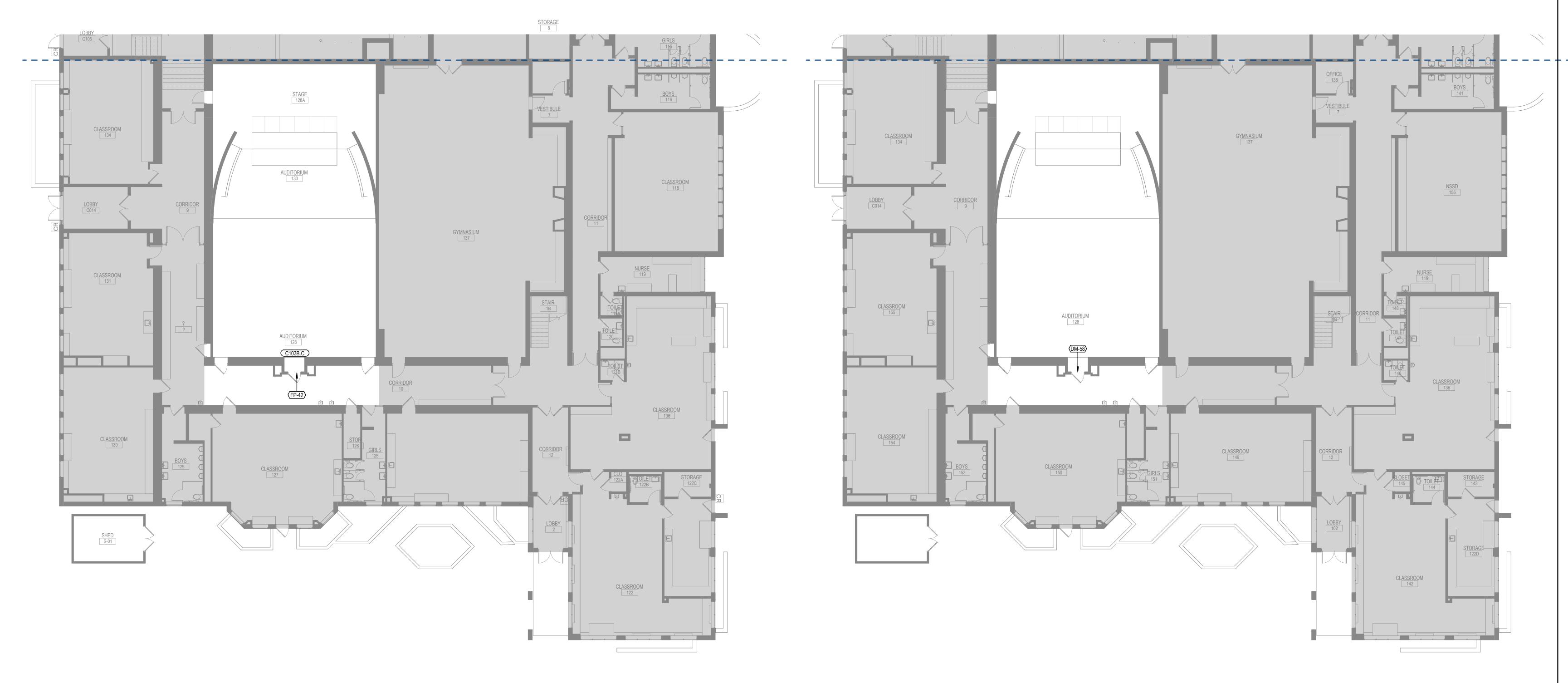
KEYPLAN

	14	
	R	SUE CHART
	ISSUE FOR BID	12/12/2024
Job Nur	ISSUE nber	DATE 021331.010
-		
		TITLE
		TITLE
F		
F		LOWER
F	LOOR PLAN - LEVEL & L	LOWER
F	LEVEL & L	LOWER EVEL 01
F	LEVEL & L	LOWER
	LEVEL & L	EVEL 01
	LEVEL & L	EVEL 01
	LEVEL & L	EVEL 01





## **2025 SUMMER WORK GREELEY SCHOOL** WINNETKA SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093

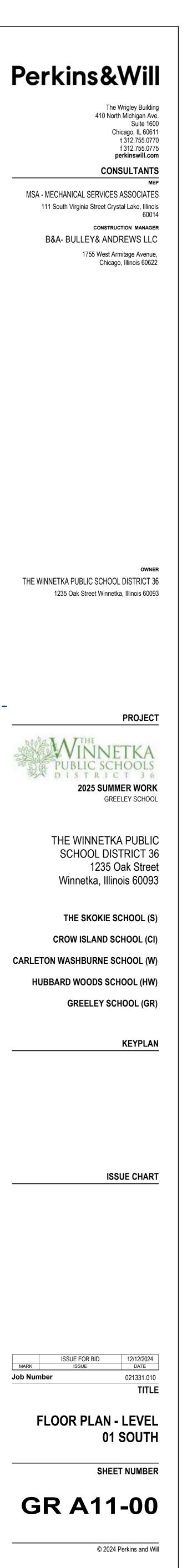


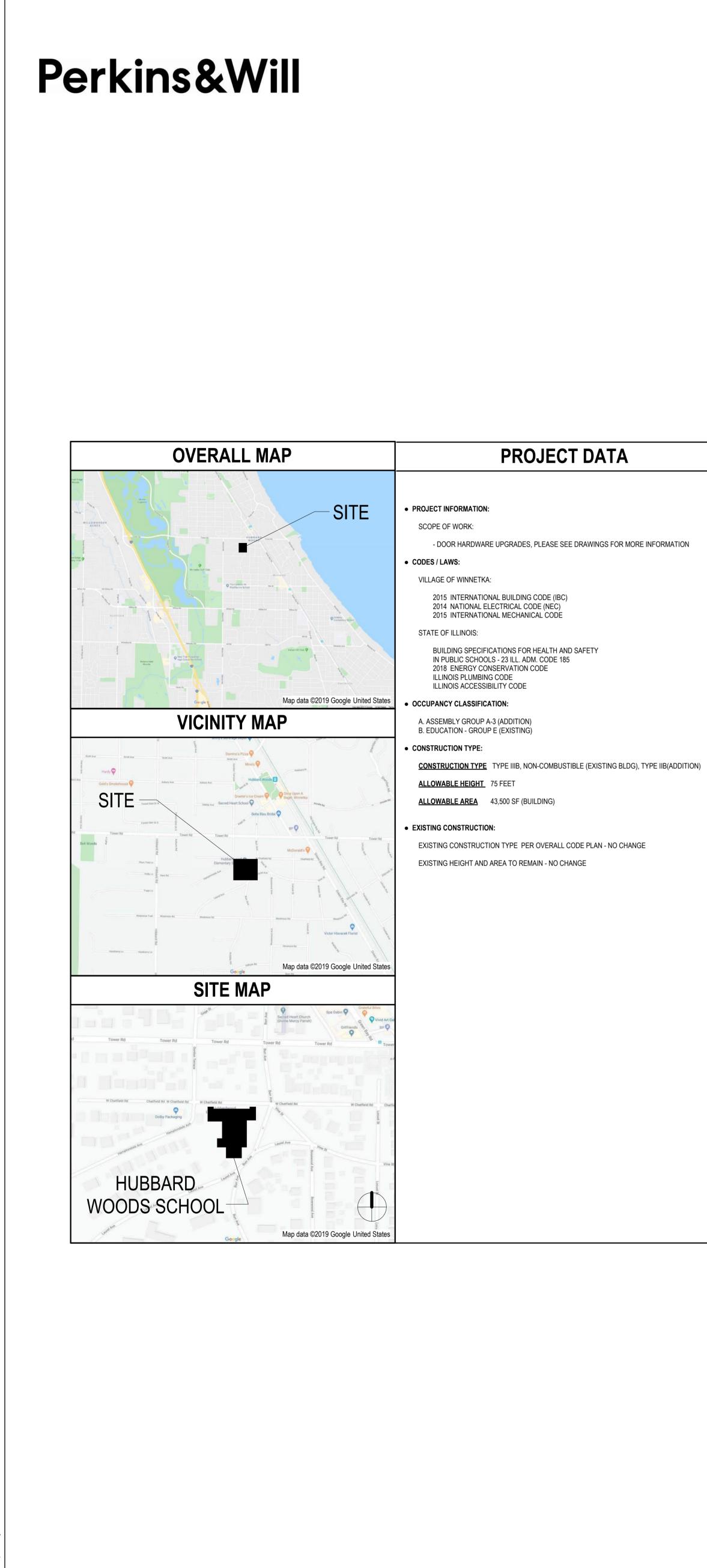
2 FLOOR PLAN - LEVEL 01 SOUTH 3/32" = 1'-0"

MAF	RK	-	Э									FRAME				DETAILS		
DOOR NO	ROOM NAME	ROOM #	HARDWAF	FIRE RATI	W	SIZE HT	ТНК	TYPE	MATL	FINISH	GLZ	TYPE	MATL	FINISH	HEAD	JAMB	SILL	REMARKS
C103B.C	AUDITORIUM	128	2.02	20 MIN	3' - 0"	7' - 0"	1 3/4"	F	EXIST - WD	EXIST-PREFIN	-	EXIST - 1	EXIST - HM	EXIST - PT	-	-	-	PROVIDE NEW HARDWARE ON EXISTING DOOR.

Indicates Sheet Keynote on Plan
DM-58 REMOVE EXISTING HARDWARE, PREPARE SURFACE FOR NEW WORK
FP-42 PROVIDE NEW HARDWARE

1 <u>DEMO PLAN - LEVEL 01 SOUTH</u> 3/32" = 1'-0"





# HUBBARD WOODS 1110 Chatfield Rd Winnetka, IL 60093

# **2025 SUMMER WORK** WINNETKA PUBLIC SCHOOLS D36

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MA	RK	
DOOR NO	ROOM NAME	
109.A	CONFERENCE	





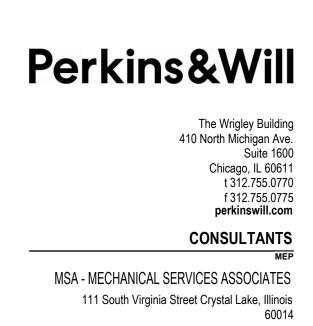
												DOOR SC	HEDULE			
		ЗЕ	ING				DOOR					FRAME		DET	AILS	
		NAF	AT		SIZE											
		(RD)	IRE R													
	ROOM #	ЧЧ		W	HT	THK	TYPE	MATL	FINISH	GLZ	TYPE	MATL	FINISH	HEAD	JAMB	
CE	106	1.00	-	3' - 0"	7' - 0"	1 3/4"	N	EXIST - WD	EXIST -PREFIN	EXIST	EXIST-1	EXIST - HM	EXIST - PT	-	-	PROVIDE NEW HARD

1 <u>LEVEL 01 DEMO PLAN - NORTH</u> 3/32" = 1'-0"

REMARKS ARDWARE ON EXISTING DOOR 
 Omega
 Indicates Sheet Keynote on Plan

 DM-81
 REMOVE EXISTING HARDWARE, PREPARE SURFACE FOR NEW WORK

 FP-63
 PROVIDE NEW HARDWARE



OWNER THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093

CONTRACTOR

BULLEY AND ANDREWS 1755 West Armitage Avenue, Chicago, IL 60622

PROJECT



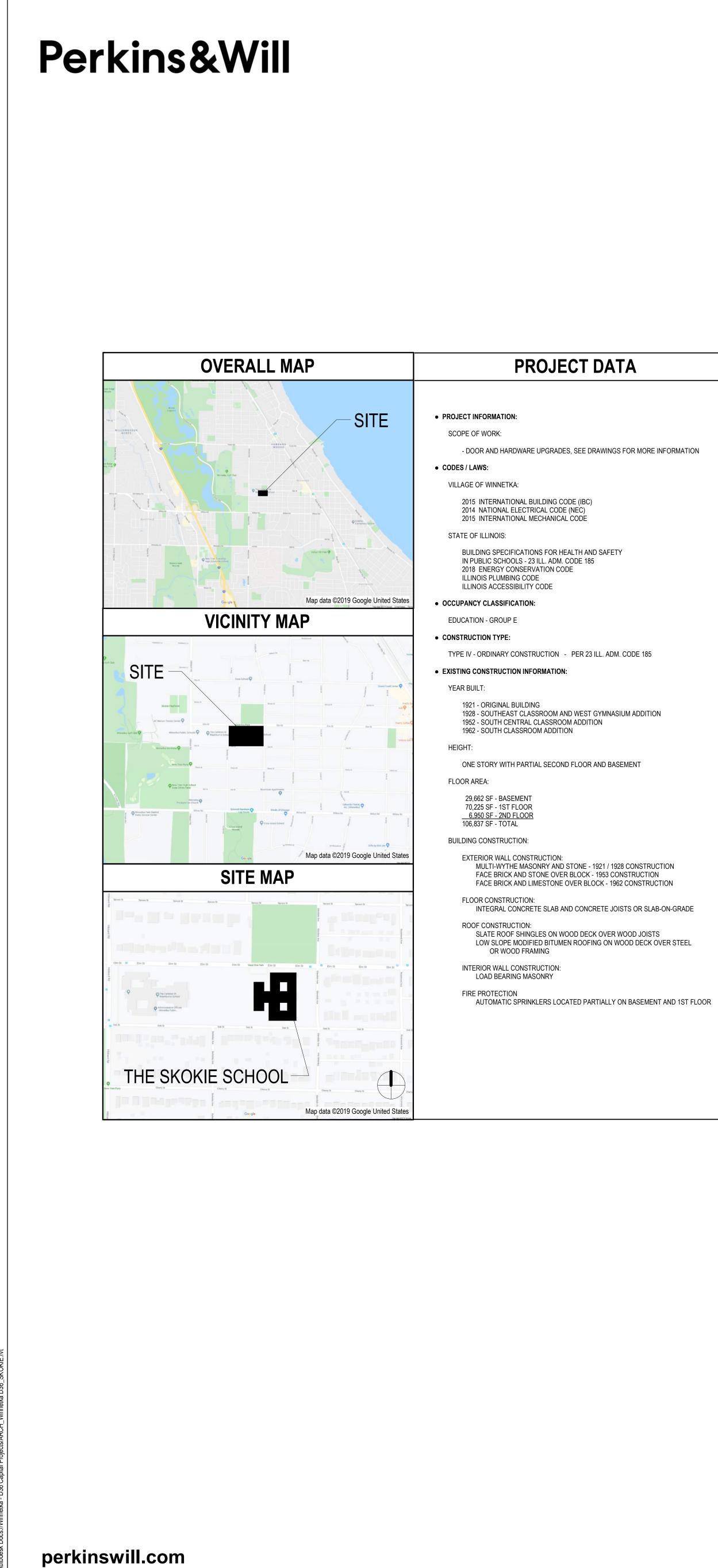
2025 SUMMER WORK HUBBARD WOODS

THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1110 Chatfield Rd Winnetka, IL 60093

THE SKOKIE SCHOOL (S) CROW ISLAND SCHOOL (CI) CARLETON WASHBURNE SCHOOL (W) HUBBARD WOODS SCHOOL (HW) GREELEY SCHOOL (GR)

KEYPLAN

	IS	SUE CHART
MARK	ISSUE FOR BID ISSUE	12/12/2024 DATE
Job Number		021331.010
		TITLE
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	01	NORTH
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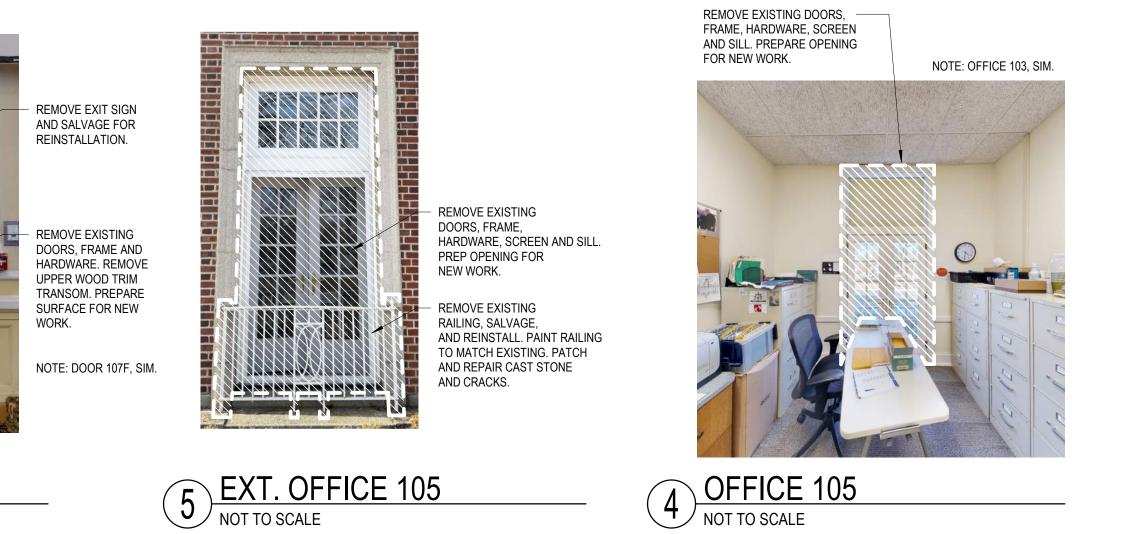
## **2025 SUMMER WORK** SKOKIE SCHOOL

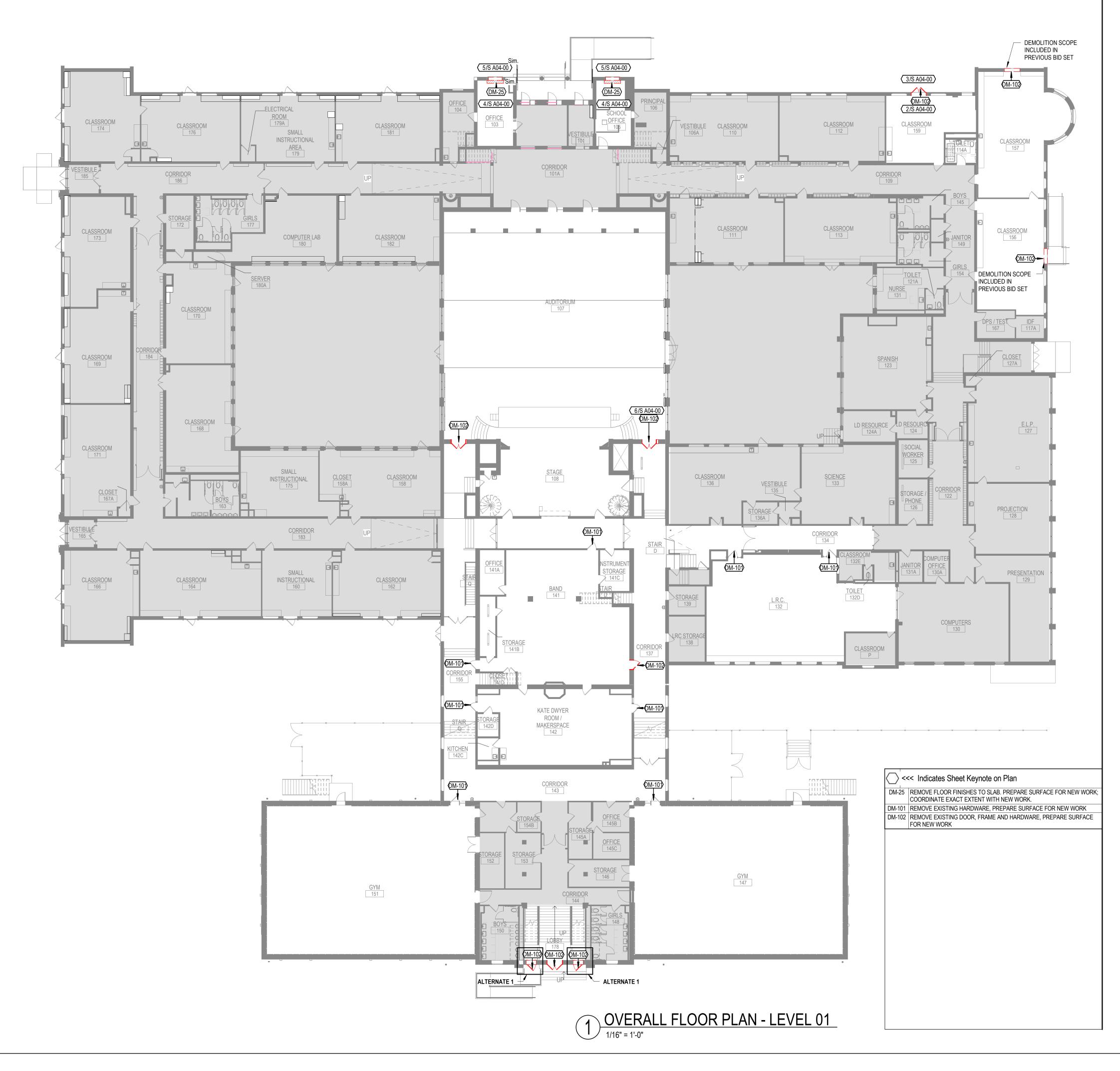
1235 Oak Street Winnetka, Illinois 60093

2024 12:20:40 PM Autodesk Docs://Winnetka - D36 Capital Projects/ARCH\_Winnetka D36\_SKOKI



6 DOOR 107E NOT TO SCALE









REMOVE EXISTING DOORS,
 FRAME, HARDWARE, AND SILL.
 REMOVE EXISTING ARCH. PREP
 OPENING FOR NEW WORK.

3 EXT. DOOR 114B NOT TO SCALE 2 DOOR 114B NOT TO SCALE



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CONSULTANTS

OWNER

MSA - MECHANICAL SERVICES ASSOCIATES 111 South Virginia Street Crystal Lake, Illinois 60014

THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093 CONTRACTOR

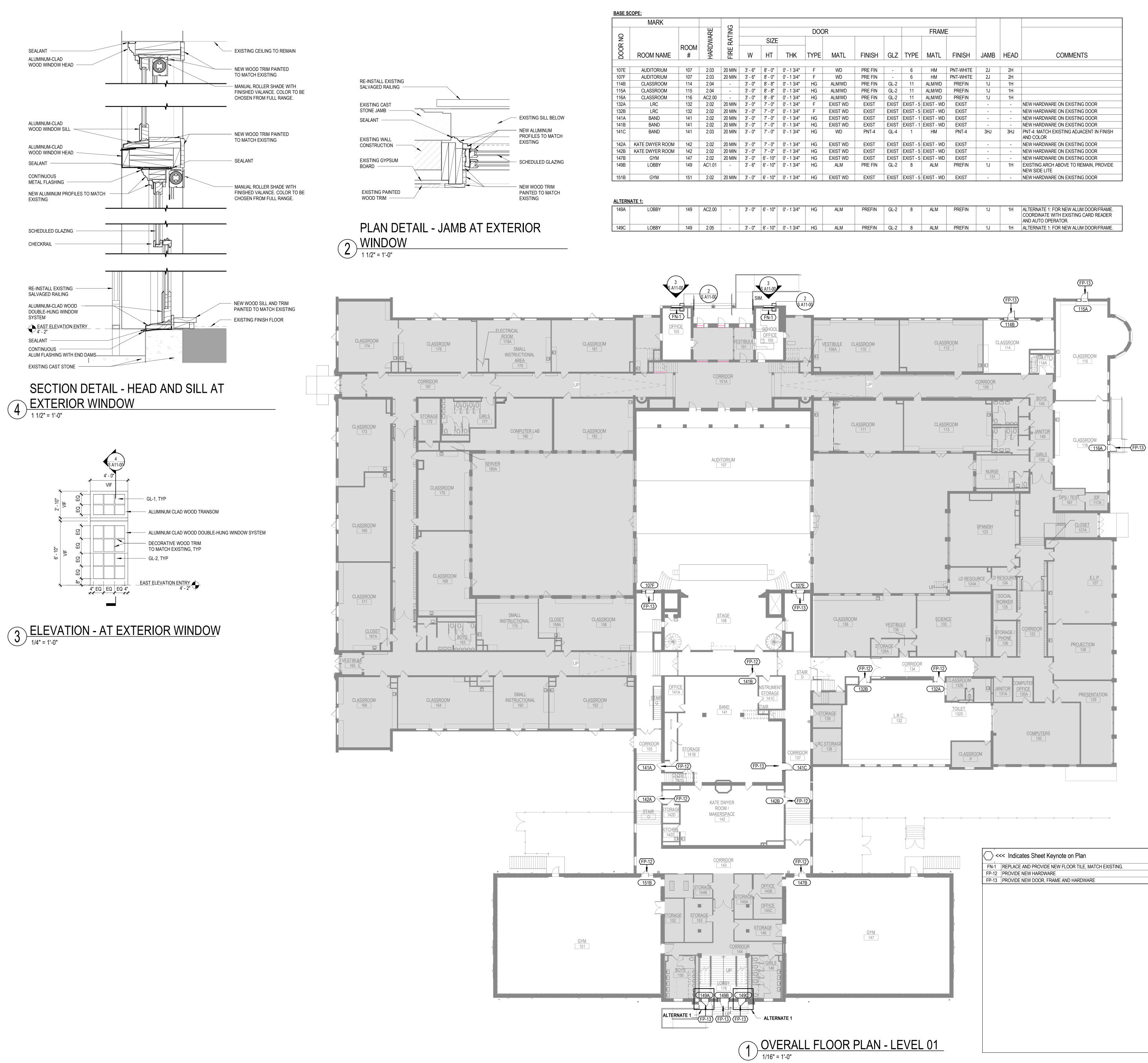
PROJECT

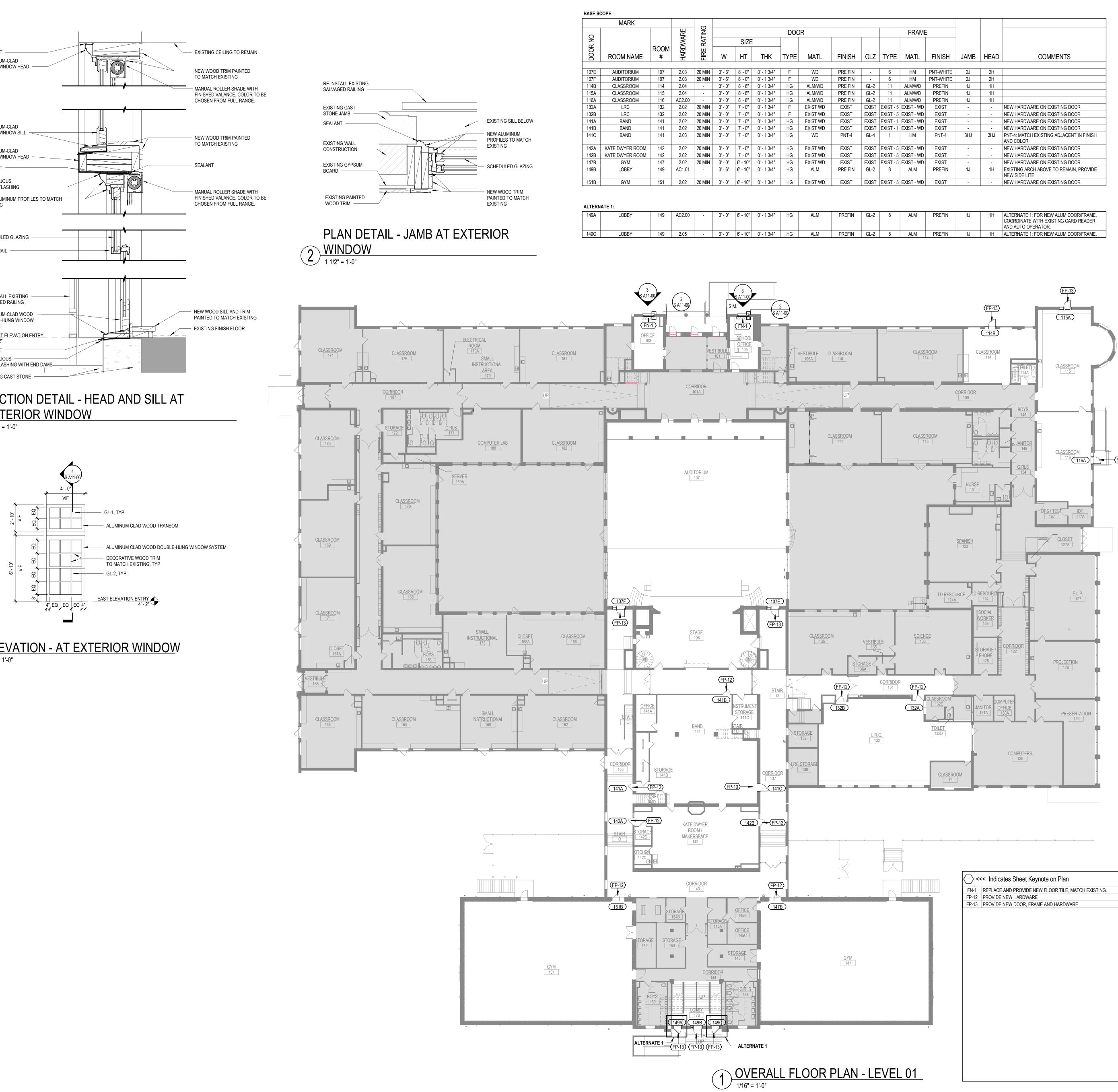


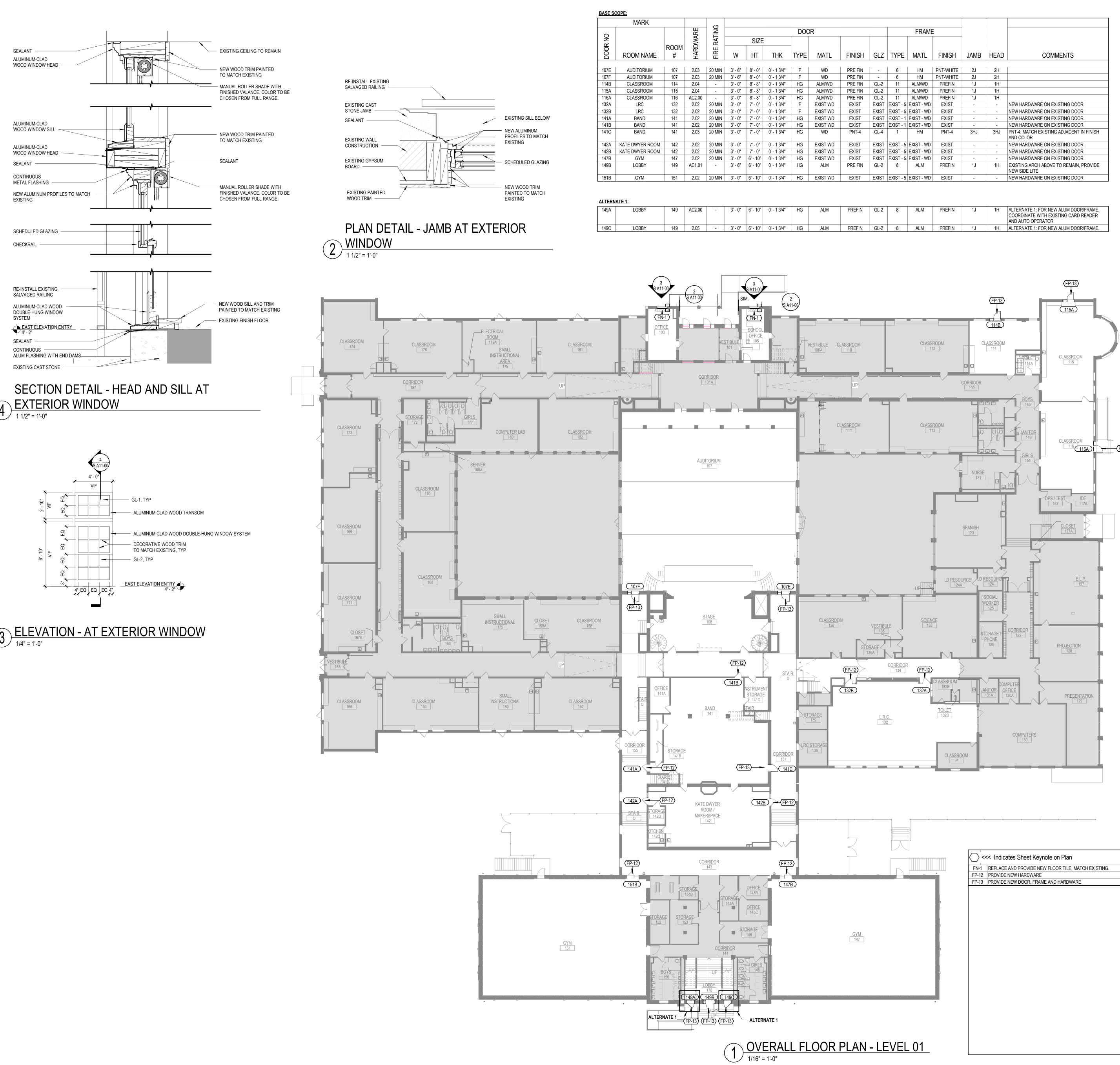
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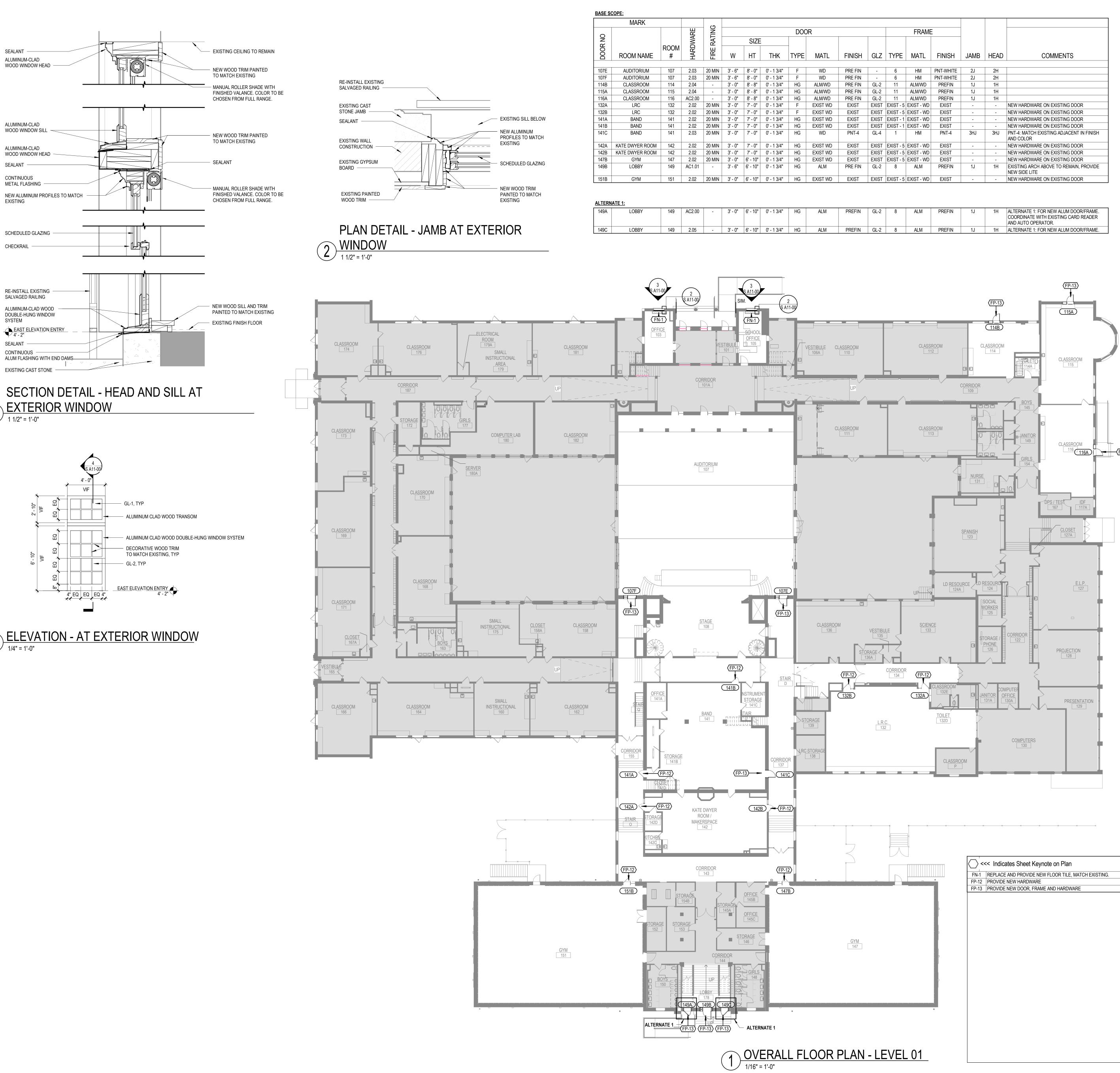
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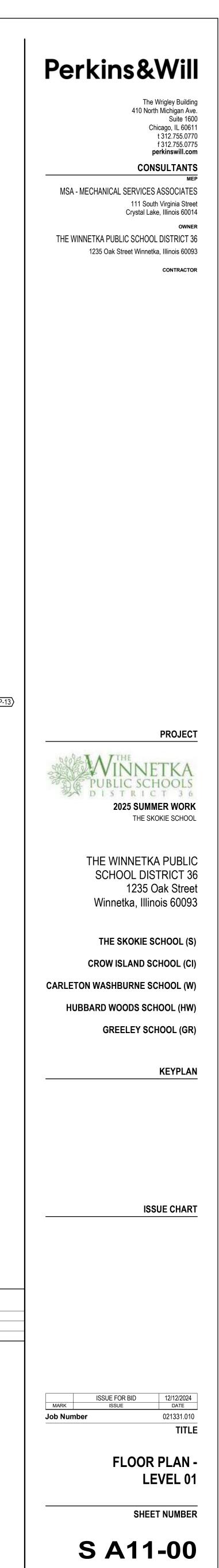




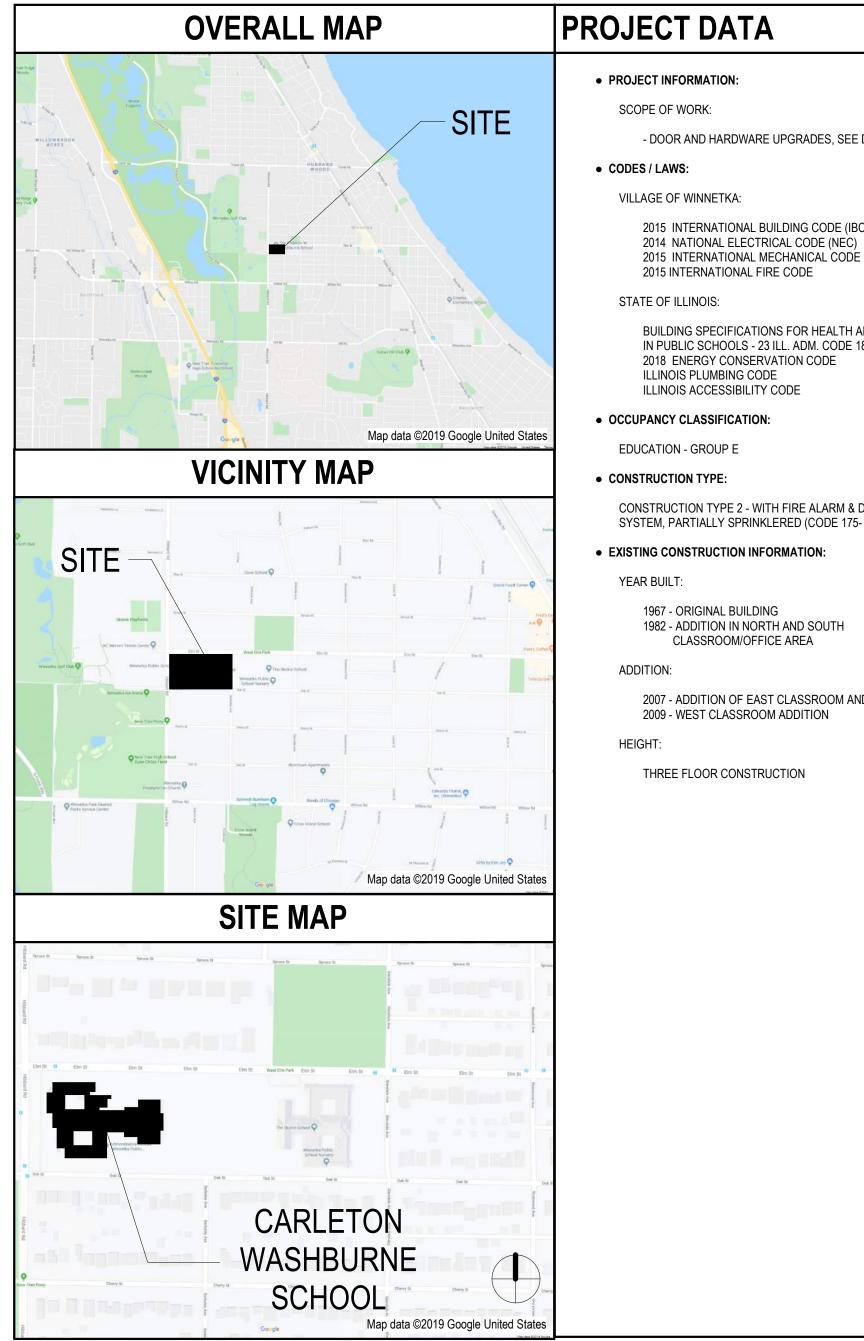








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- DOOR AND HARDWARE UPGRADES, SEE DRAWINGS

2015 INTERNATIONAL BUILDING CODE (IBC)

2015 INTERNATIONAL FIRE CODE

BUILDING SPECIFICATIONS FOR HEALTH AND SAFETY IN PUBLIC SCHOOLS - 23 ILL. ADM. CODE 187( CODE 175) 2018 ENERGY CONSERVATION CODE

ILLINOIS ACCESSIBILITY CODE

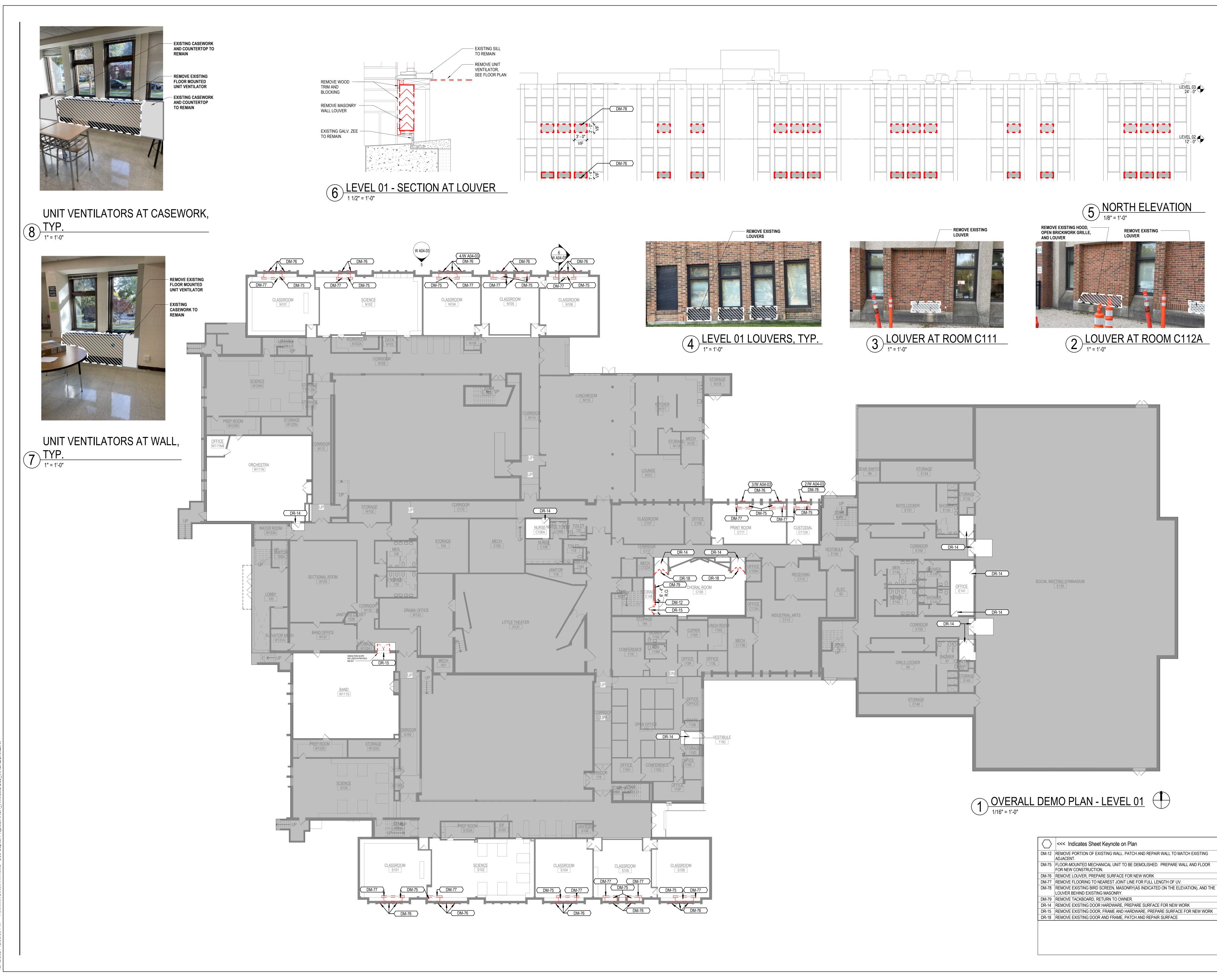
CONSTRUCTION TYPE 2 - WITH FIRE ALARM & DETECTION SYSTEM, PARTIALLY SPRINKLERED (CODE 175- TABLE A) • EXISTING CONSTRUCTION INFORMATION:

1967 - ORIGINAL BUILDING 1982 - ADDITION IN NORTH AND SOUTH CLASSROOM/OFFICE AREA

2007 - ADDITION OF EAST CLASSROOM AND OFFICE AREA 2009 - WEST CLASSROOM ADDITION

THREE FLOOR CONSTRUCTION

**2025 SUMMER WORK** THE CARLETON WASHBURNE SCHOOL THE WINNETKA PUBLIC SCHOOL DISTRICT 36





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MEP MSA - MECHANICAL SERVICES ASSOCIATES 111 S Virginia Street Crystal Lake, IL 60014 CONSTRUCTION MANAGER

> Bulley & Andrews LLC 1755 West Armitage Avenue, Chicago, Illinois 60622

OWNER THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, IL 60093 CONTRACTOR

PROJECT

PUBLIC SCHOOL DISTRICT 36 2025 SUMMER WORK THE CARLETON WASHBURNE SCHOOL

WINNETKA

THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093

THE SKOKIE SCHOOL (S) **CROW ISLAND SCHOOL (CI)** CARLETON WASHBURNE SCHOOL (W) HUBBARD WOODS SCHOOL (HW) **GREELEY SCHOOL (GR)** 

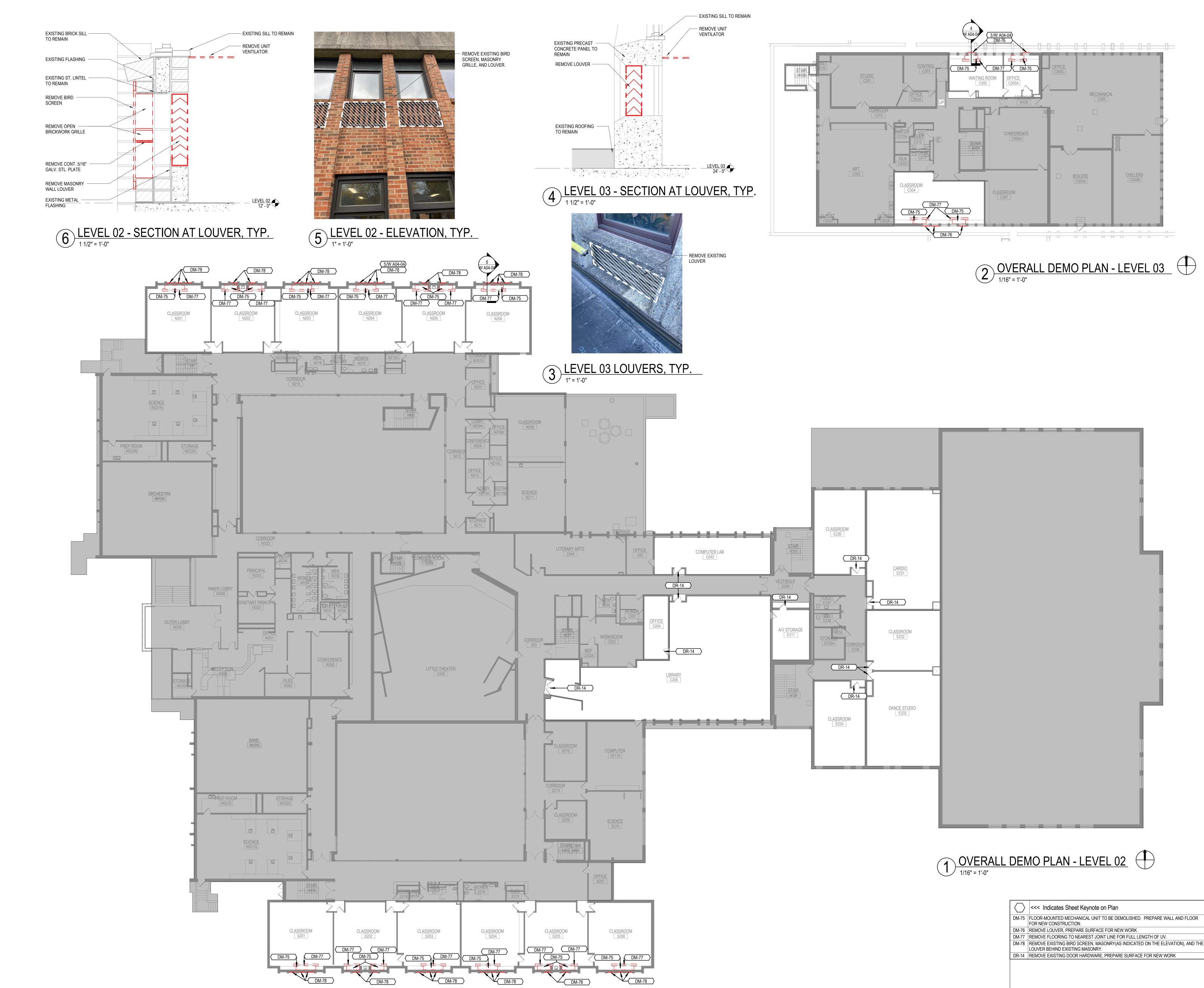
KEYPLAN

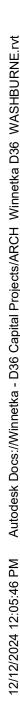
**ISSUE CHART** 

ISSUE FOR BID 12/12/2024 DATE MARK 021331.010 Job Number TITLE OVERALL DEMO PLAN - LEVEL 01

SHEET NUMBER

W A04-03







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MEP MSA - MECHANICAL SERVICES ASSOCIATES 111 S Virginia Street Crystal Lake, IL 60014

CONSTRUCTION MANAGER Bulley & Andrews LLC 1755 West Armitage Avenue, Chicago, Illinois 60622 OWNER THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, IL 60093 CONTRACTOR PROJECT WINNETKA UBLIC SCHOOL DISTRICT 36 2025 SUMMER WORK THE CARLETON WASHBURNE SCHOOL THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093 THE SKOKIE SCHOOL (S) **CROW ISLAND SCHOOL (CI)** CARLETON WASHBURNE SCHOOL (W) HUBBARD WOODS SCHOOL (HW) GREELEY SCHOOL (GR) KEYPLAN **ISSUE CHART** ISSUE FOR BID 12/12/2024 DATE MARK

Job Number

SHEET NUMBER

- LEVEL 02 & 03

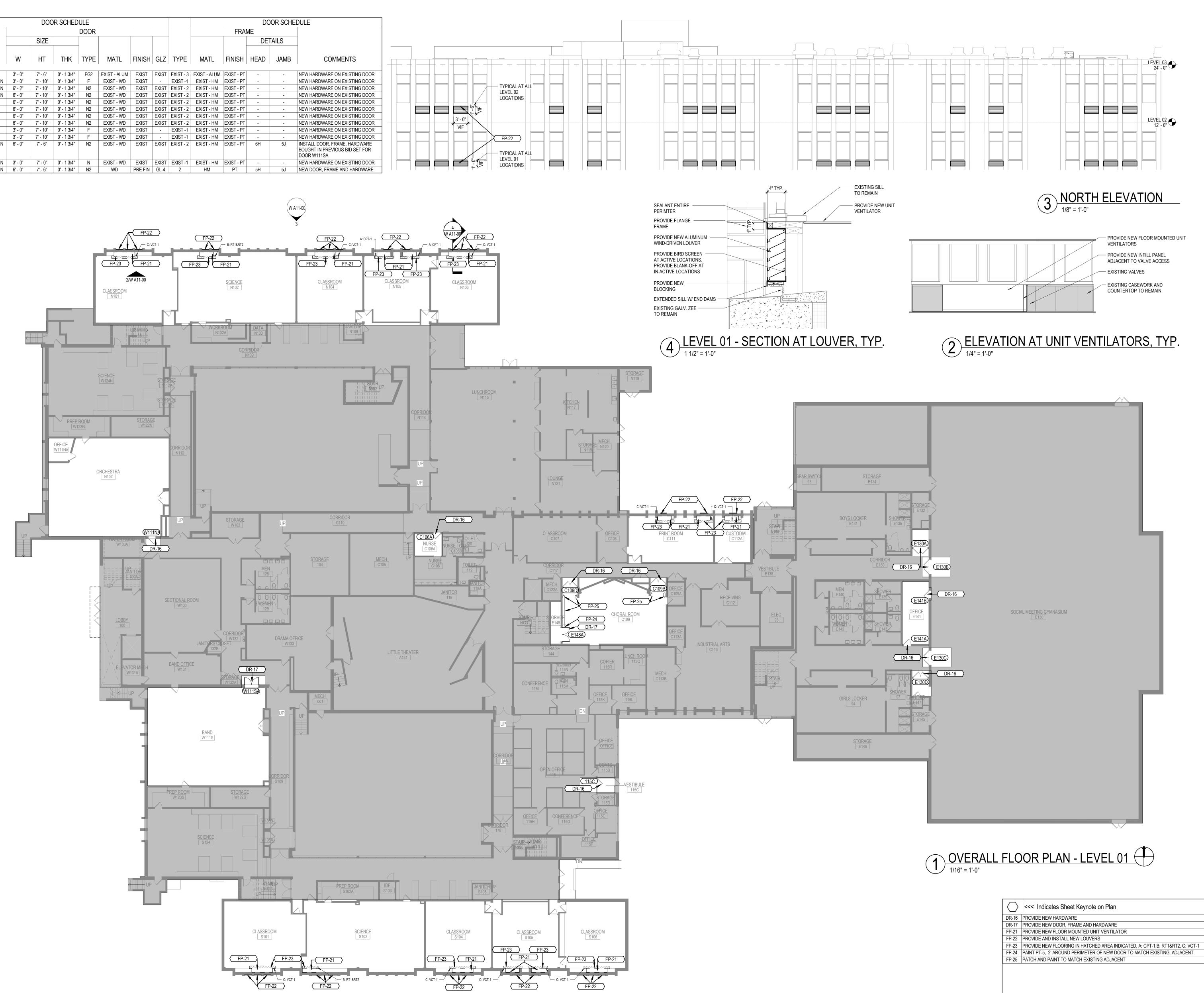
021331.010

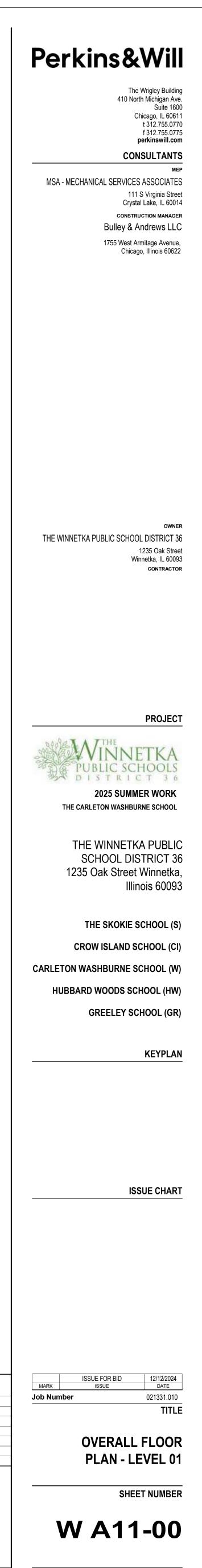
TITLE



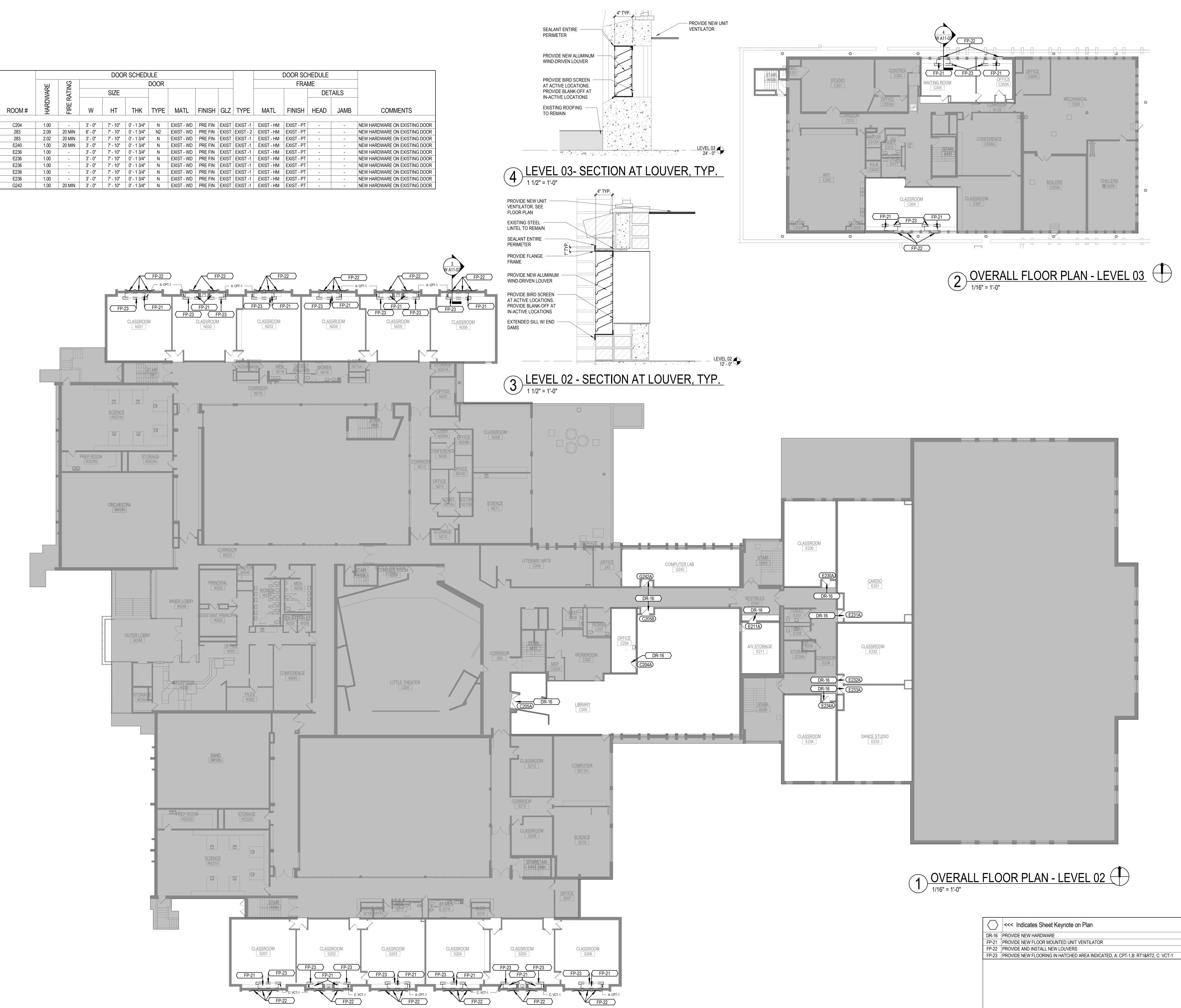
OVERALL DEMO PLAN

						ULE	R SCHED	DOO					CHEDULE	DOOR S
F						DOOR				۵ D	Щ		ARK	M
								SIZE		RATING	VAR			NO
FINI	MATL	TYPE	GLZ	FINISH	MATL	TYPE	THK	HT	W	FIRE R	HARDWARE	ROOM #	ROOM NAME	DOOR NO
EXIST	EXIST - ALUM	EXIST - 3	EXIST	EXIST	EXIST - ALUM	FG2	0' - 1 3/4"	7' - 6"	3' - 0"	-	AC3.00	115C	VESTIBULE	115C
EXIST	EXIST - HM	EXIST -1	-	EXIST	EXIST - WD	F	0' - 1 3/4"	7' - 10"	3' - 0"	45 MIN	1.00	C106A	NURSE	C106A
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 2"	45 MIN	2.09	C117	CORRIDOR	C109B
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 0"	45 MIN	2.09	C117	CORRIDOR	C109D
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 0"	-	2.07	E150	CORRIDOR	E130A
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 0"	-	2.07	E150	CORRIDOR	E130B
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 0"	-	2.07	E150	CORRIDOR	E130C
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 10"	6' - 0"	-	2.07	E150	CORRIDOR	E130D
EXIST	EXIST - HM	EXIST -1	-	EXIST	EXIST - WD	F	0' - 1 3/4"	7' - 10"	3' - 0"	-	1.00	E141	OFFICE	E141A
EXIST	EXIST - HM	EXIST -1	-	EXIST	EXIST - WD	F	0' - 1 3/4"	7' - 10"	3' - 0"	-	1.00	E141	OFFICE	E141B
EXIST	EXIST - HM	EXIST - 2	EXIST	EXIST	EXIST - WD	N2	0' - 1 3/4"	7' - 6"	6' - 0"	90 MIN	-	E148	STORAGE	E148A
EXIST	EXIST - HM	EXIST -1	EXIST	EXIST	EXIST - WD	N	0' - 1 3/4"	7' - 0"	3' - 0"	90 MIN	2.02	W111N	ORCHESTRA	W111NA
PT	HM	2	GL-4	PRE FIN	WD	N2	0' - 1 3/4"	7' - 6"	6' - 0"	90 MIN	2.06	W132	CORRIDOR	W111SA





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	DOOR SC	HEDULE					DOO	R SCHED	ULE				
	MA	RK		Щ	NG				DOOR				
	Q			IAR	RATING		SIZE						
	DOOR	ROOM NAME	ROOM #	HARDWARE	FIRE R/	W	HT	ТНК	TYPE	MATL	FINISH	GLZ	TYF
					-						1		
	C204A	OFFICE	C204	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	C205A	CORRIDOR	283	2.09	20 MIN	6' - 0"	7' - 10"	0' - 1 3/4"	N2	EXIST - WD	PRE FIN	EXIST	EXIST
	C205B	CORRIDOR	283	2.02	20 MIN	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E211A	VESTIBULE	E240	1.00	20 MIN	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E230A	CORRIDOR	E236	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E231A	CORRIDOR	E236	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E232A	CORRIDOR	E236	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E233A	CORRIDOR	E236	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	E234A	CORRIDOR	E236	1.00	-	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS
	G242A	COMPUTER LAB	G242	1.00	20 MIN	3' - 0"	7' - 10"	0' - 1 3/4"	N	EXIST - WD	PRE FIN	EXIST	EXIS





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MSA - MECHANICAL SERVICES ASSOCIATES 111 S Virginia Street Crystal Lake, IL 60014 CONSTRUCTION MANAGER Bulley & Andrews LLC

1755 West Armitage Avenue, Chicago, Illinois 60622

OWNER THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, IL 60093 CONTRACTOR

PROJECT

DISTRICT 36 2025 SUMMER WORK THE CARLETON WASHBURNE SCHOOL

VINNETKA

PUBLIC SCHOOL

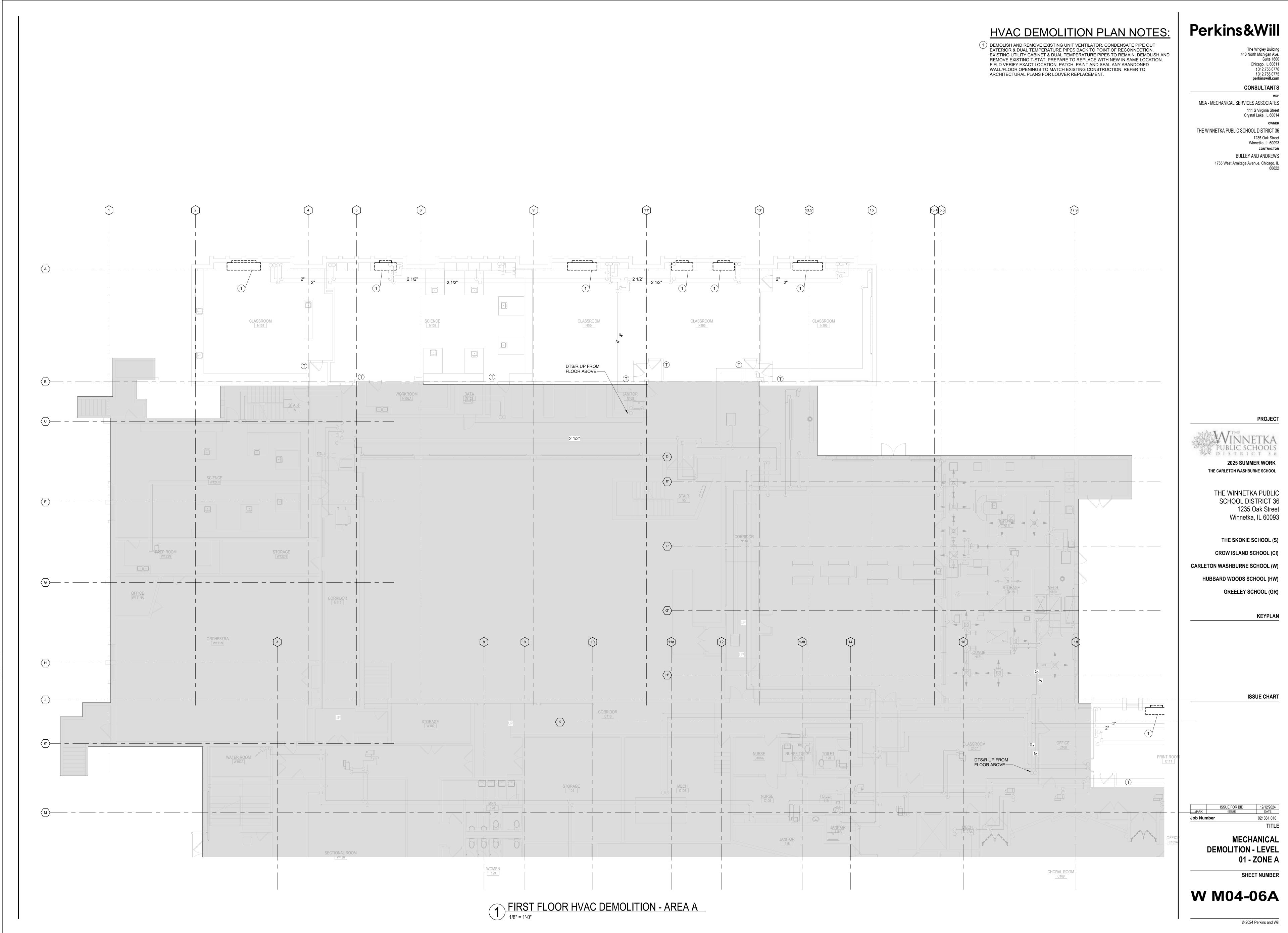
THE WINNETKA PUBLIC SCHOOL DISTRICT 36 1235 Oak Street Winnetka, Illinois 60093

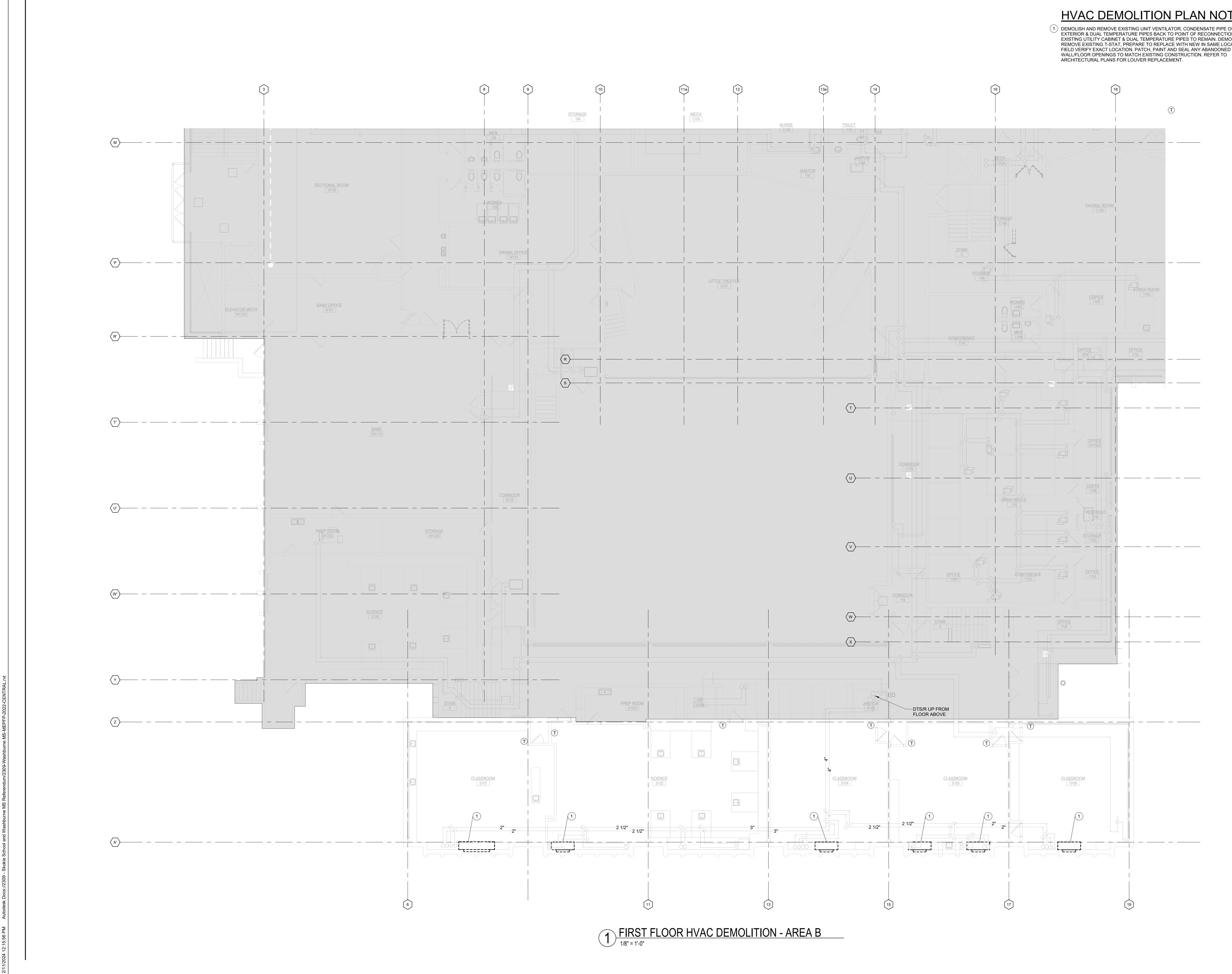
THE SKOKIE SCHOOL (S) CROW ISLAND SCHOOL (CI) CARLETON WASHBURNE SCHOOL (W) HUBBARD WOODS SCHOOL (HW) GREELEY SCHOOL (GR)

KEYPLAN

**ISSUE CHART** 

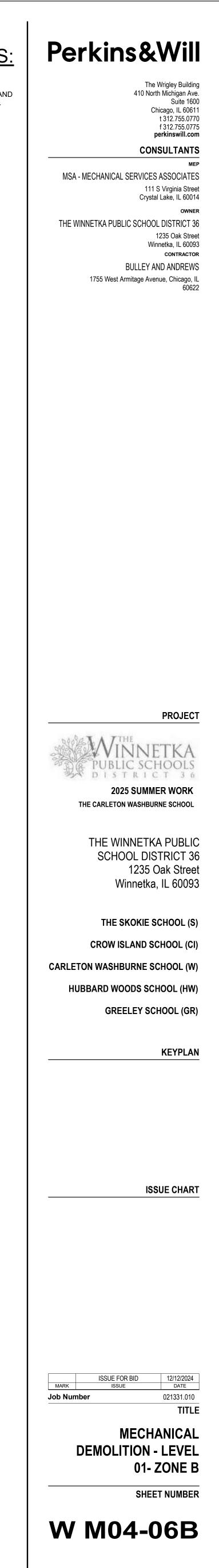
MARK	ISSUE FOR BID ISSUE	12/12/2024 DATE
Job Nu	mber	021331.010 TITLE
	OVERALL I PLAN - LEVEL (	
	SHEET	NUMBER
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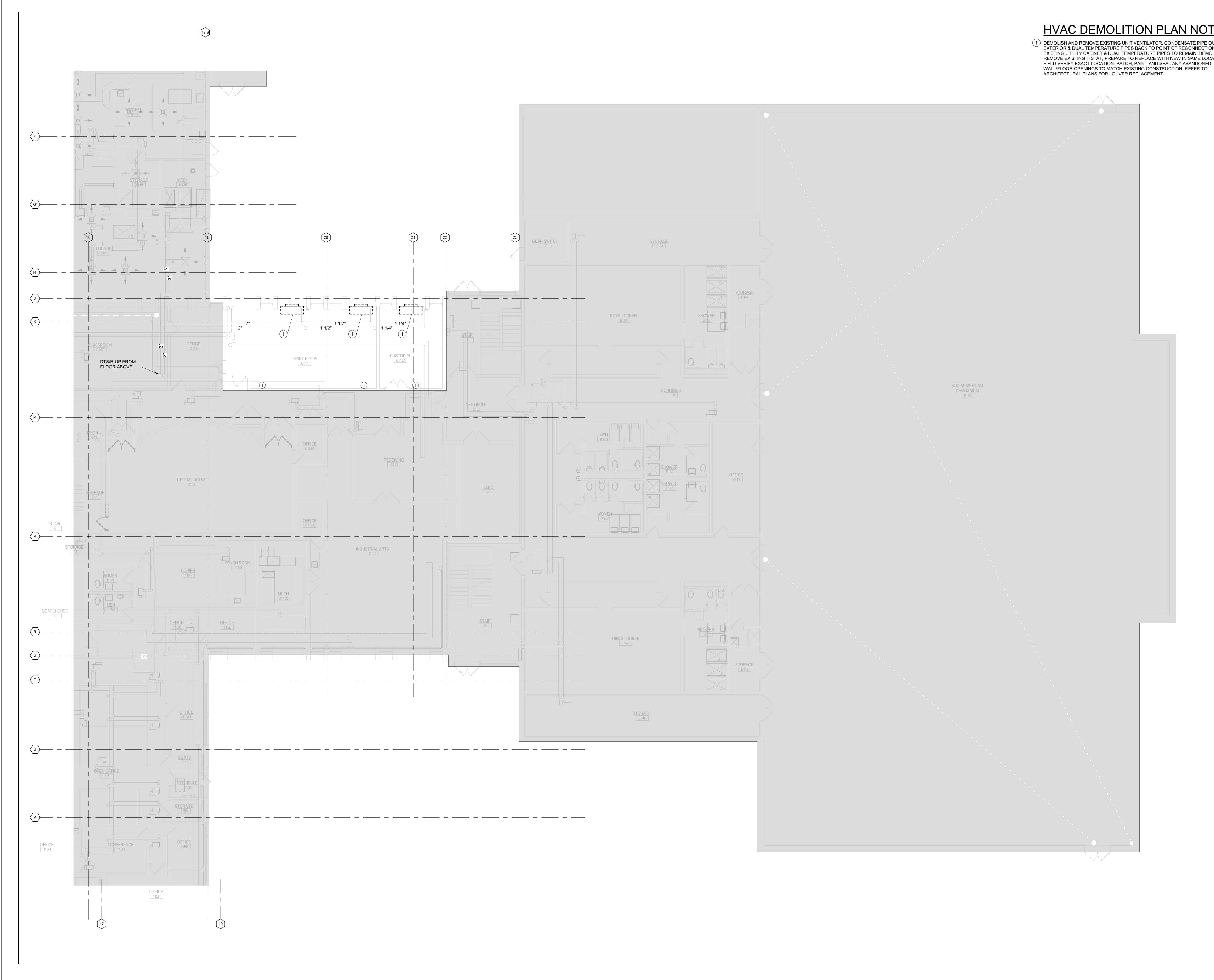




### HVAC DEMOLITION PLAN NOTES:

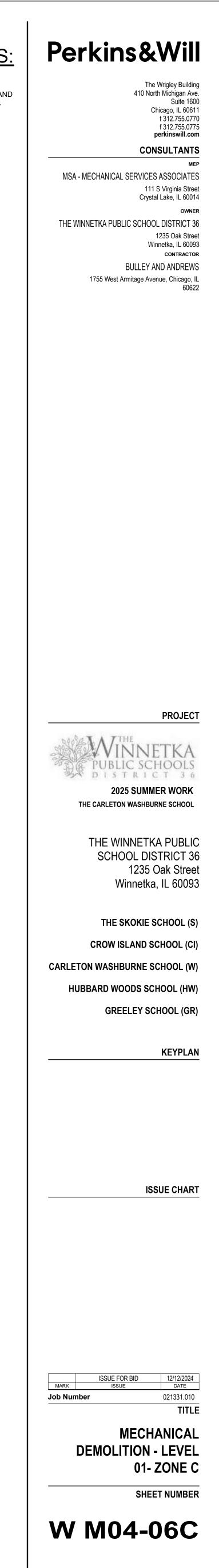
1 DEMOLISH AND REMOVE EXISTING UNIT VENTILATOR, CONDENSATE PIPE OUT EXTERIOR & DUAL TEMPERATURE PIPES BACK TO POINT OF RECONNECTION. EXISTING UTILITY CABINET & DUAL TEMPERATURE PIPES TO REMAIN. DEMOLISH AND REMOVE EXISTING T-STAT, PREPARE TO REPLACE WITH NEW IN SAME LOCATION. FIELD VERIFY EXACT LOCATION. PATCH, PAINT AND SEAL ANY ABANDONED

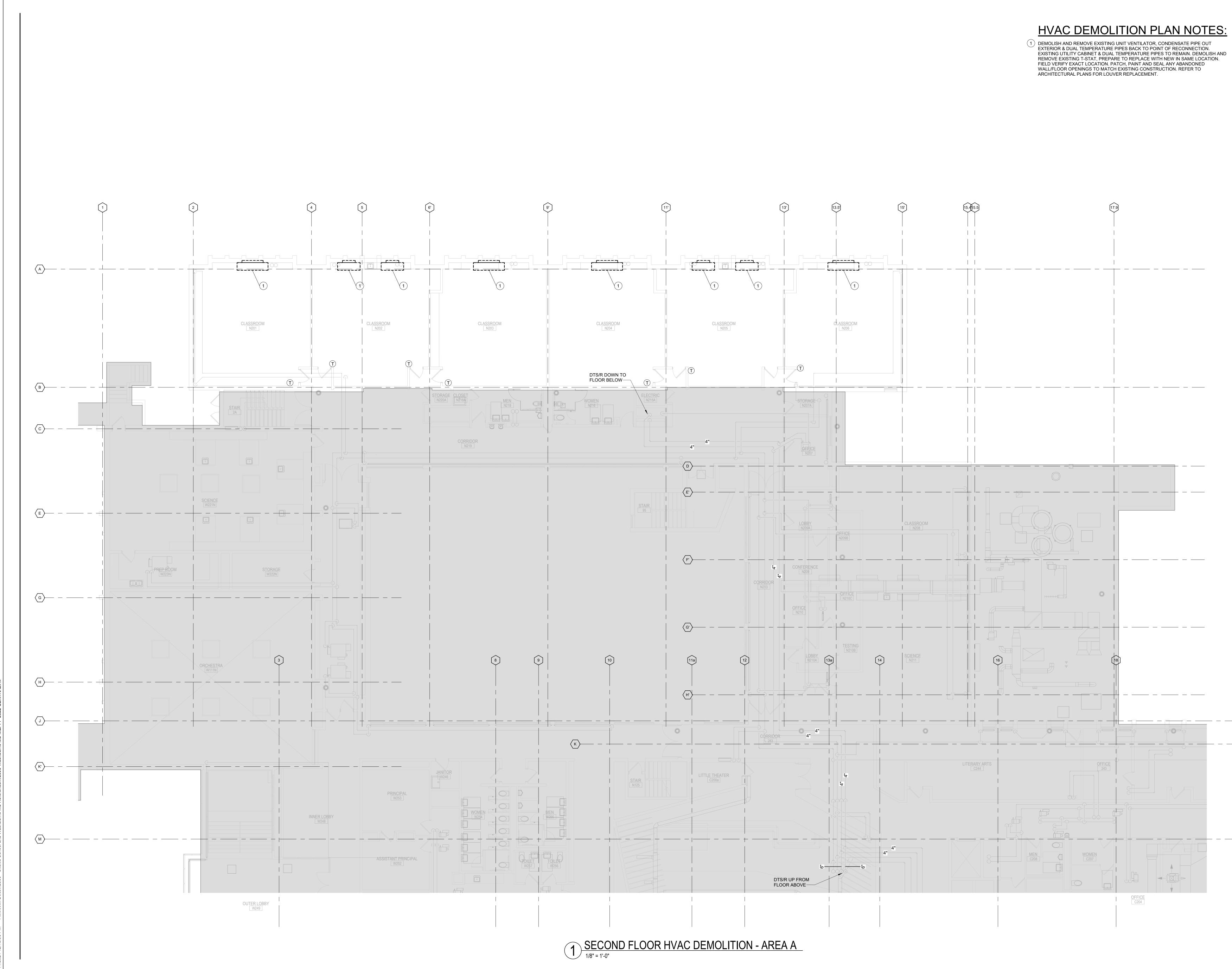




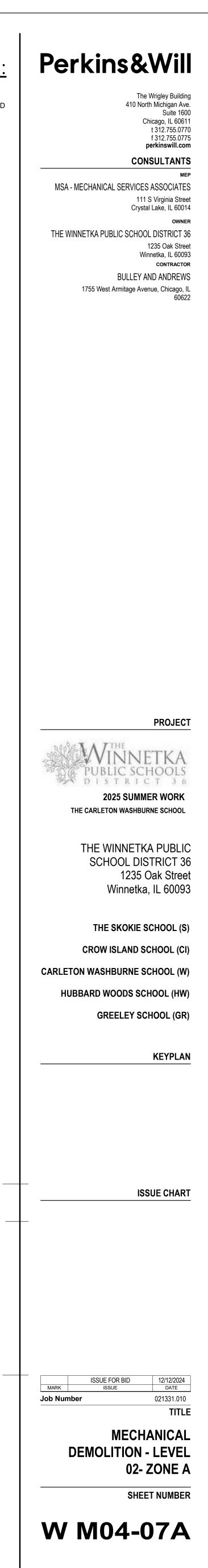
### HVAC DEMOLITION PLAN NOTES:

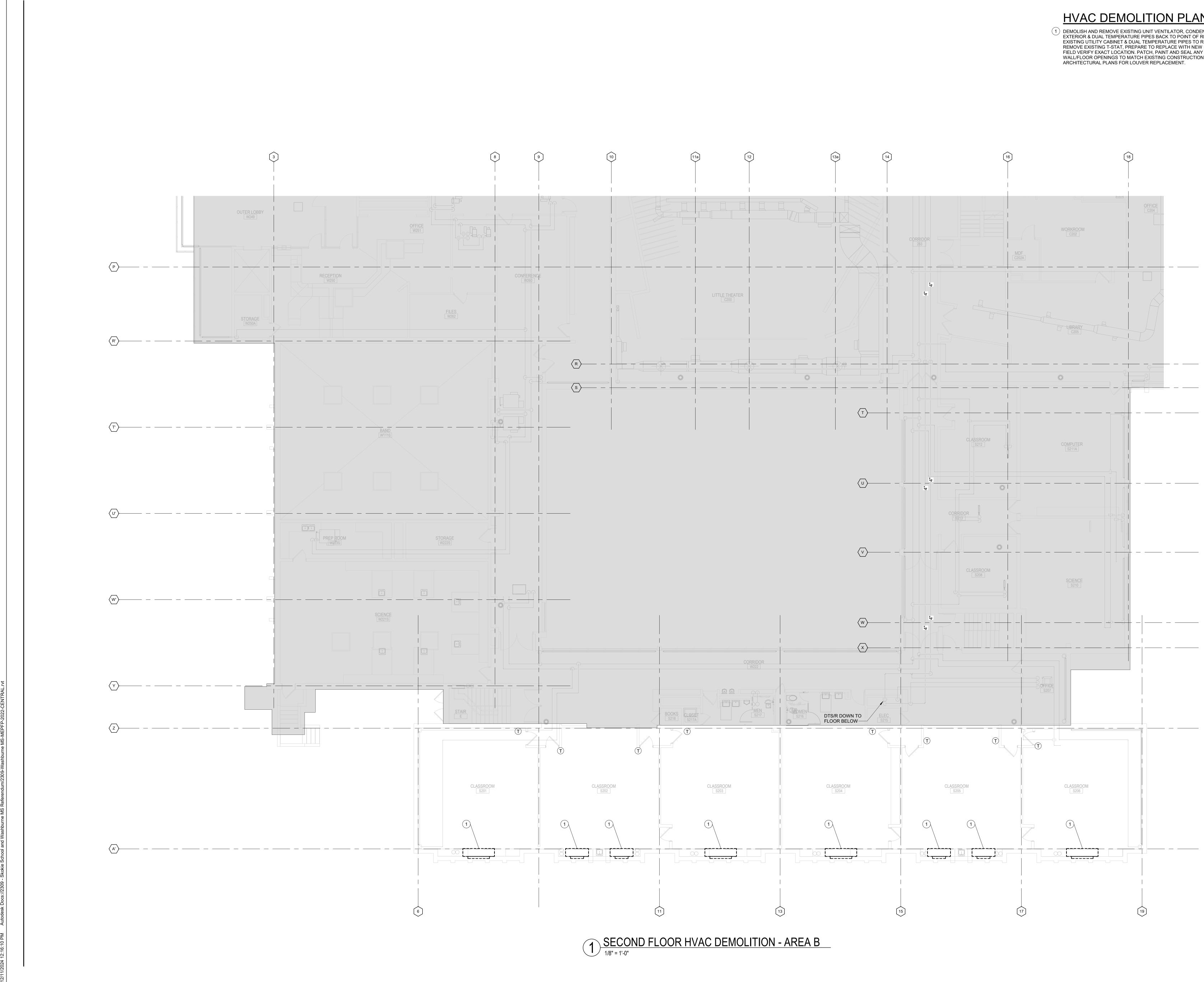
1 DEMOLISH AND REMOVE EXISTING UNIT VENTILATOR, CONDENSATE PIPE OUT EXTERIOR & DUAL TEMPERATURE PIPES BACK TO POINT OF RECONNECTION. EXISTING UTILITY CABINET & DUAL TEMPERATURE PIPES TO REMAIN. DEMOLISH AND REMOVE EXISTING T-STAT, PREPARE TO REPLACE WITH NEW IN SAME LOCATION. FIELD VERIFY EXACT LOCATION. PATCH, PAINT AND SEAL ANY ABANDONED





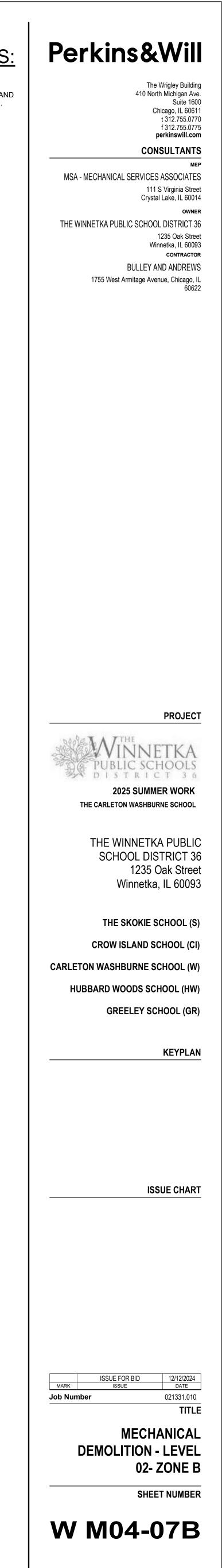
EXISTING UTILITY CABINET & DUAL TEMPERATURE PIPES TO REMAIN. DEMOLISH AND REMOVE EXISTING T-STAT, PREPARE TO REPLACE WITH NEW IN SAME LOCATION. FIELD VERIFY EXACT LOCATION. PATCH, PAINT AND SEAL ANY ABANDONED

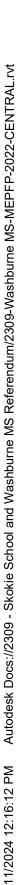


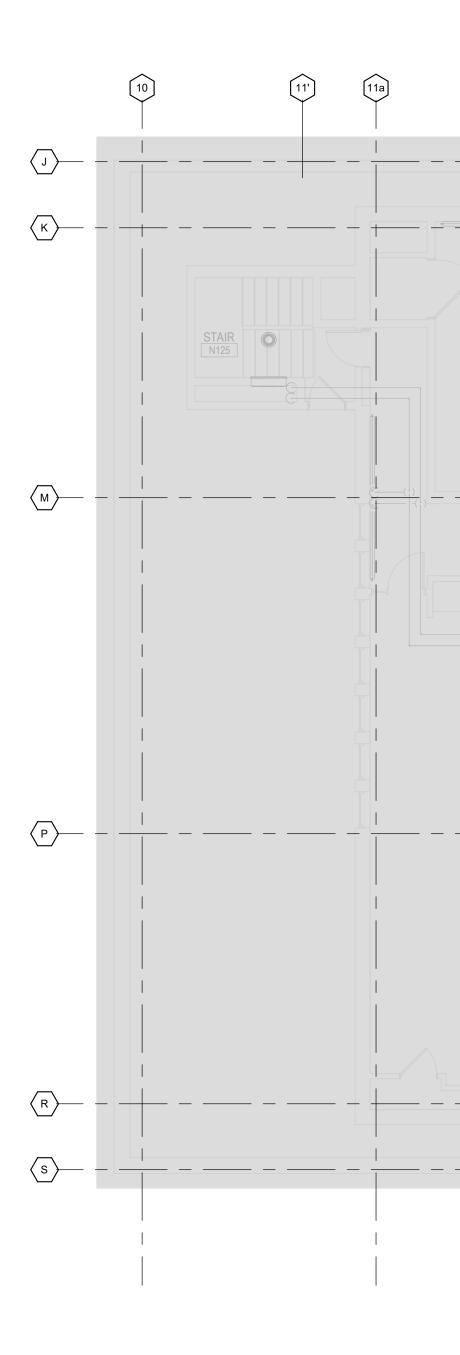


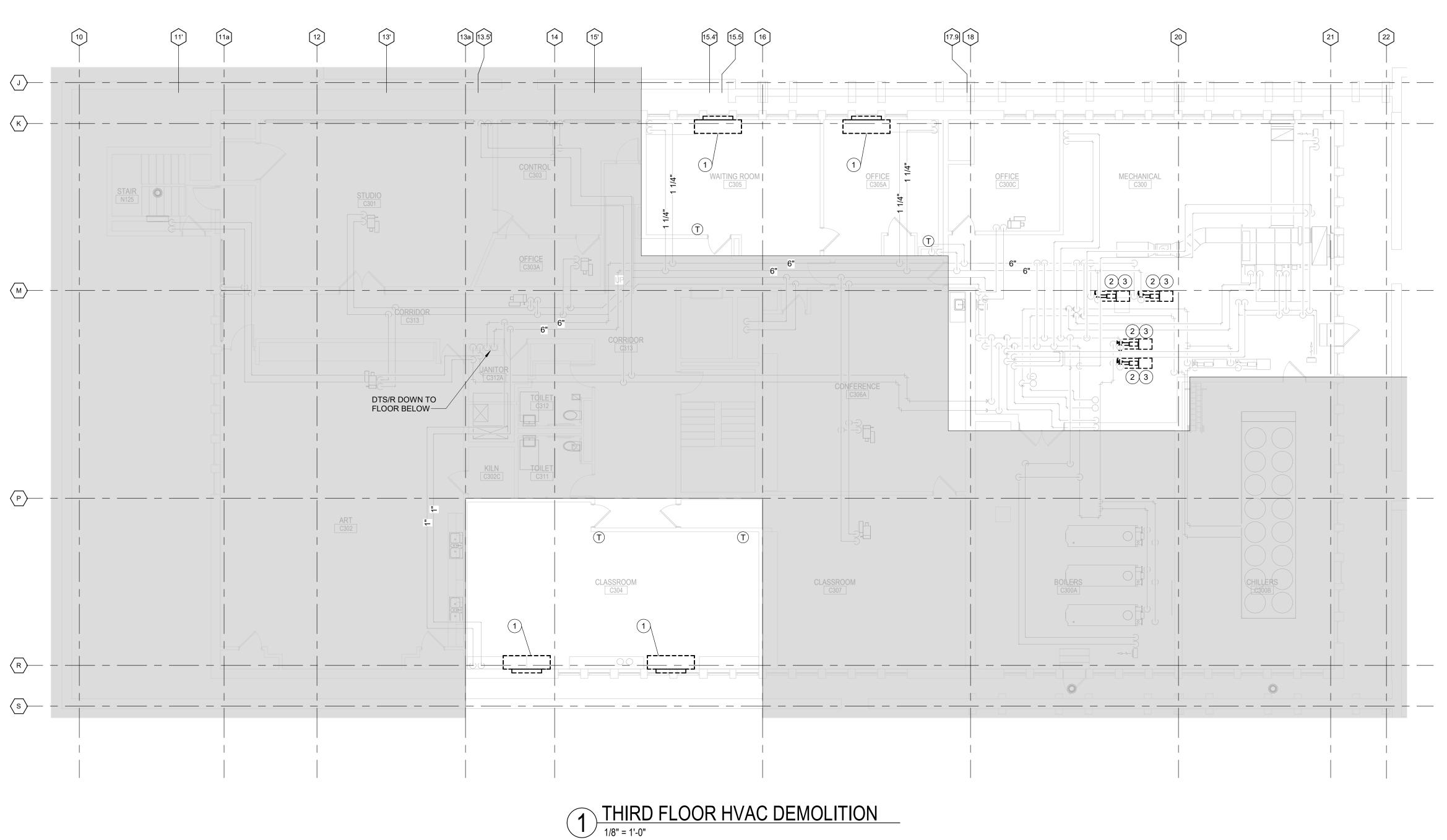
### HVAC DEMOLITION PLAN NOTES:

1 DEMOLISH AND REMOVE EXISTING UNIT VENTILATOR, CONDENSATE PIPE OUT EXTERIOR & DUAL TEMPERATURE PIPES BACK TO POINT OF RECONNECTION. EXISTING UTILITY CABINET & DUAL TEMPERATURE PIPES TO REMAIN. DEMOLISH AND REMOVE EXISTING T-STAT, PREPARE TO REPLACE WITH NEW IN SAME LOCATION. FIELD VERIFY EXACT LOCATION. PATCH, PAINT AND SEAL ANY ABANDONED WALL/FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. REFER TO



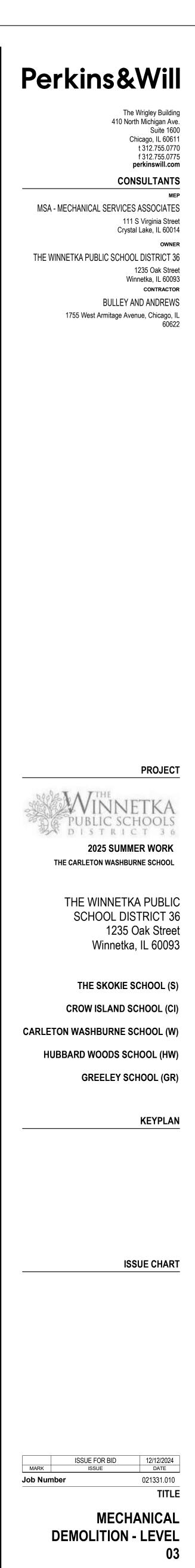






### HVAC DEMOLITION PLAN NOTES:

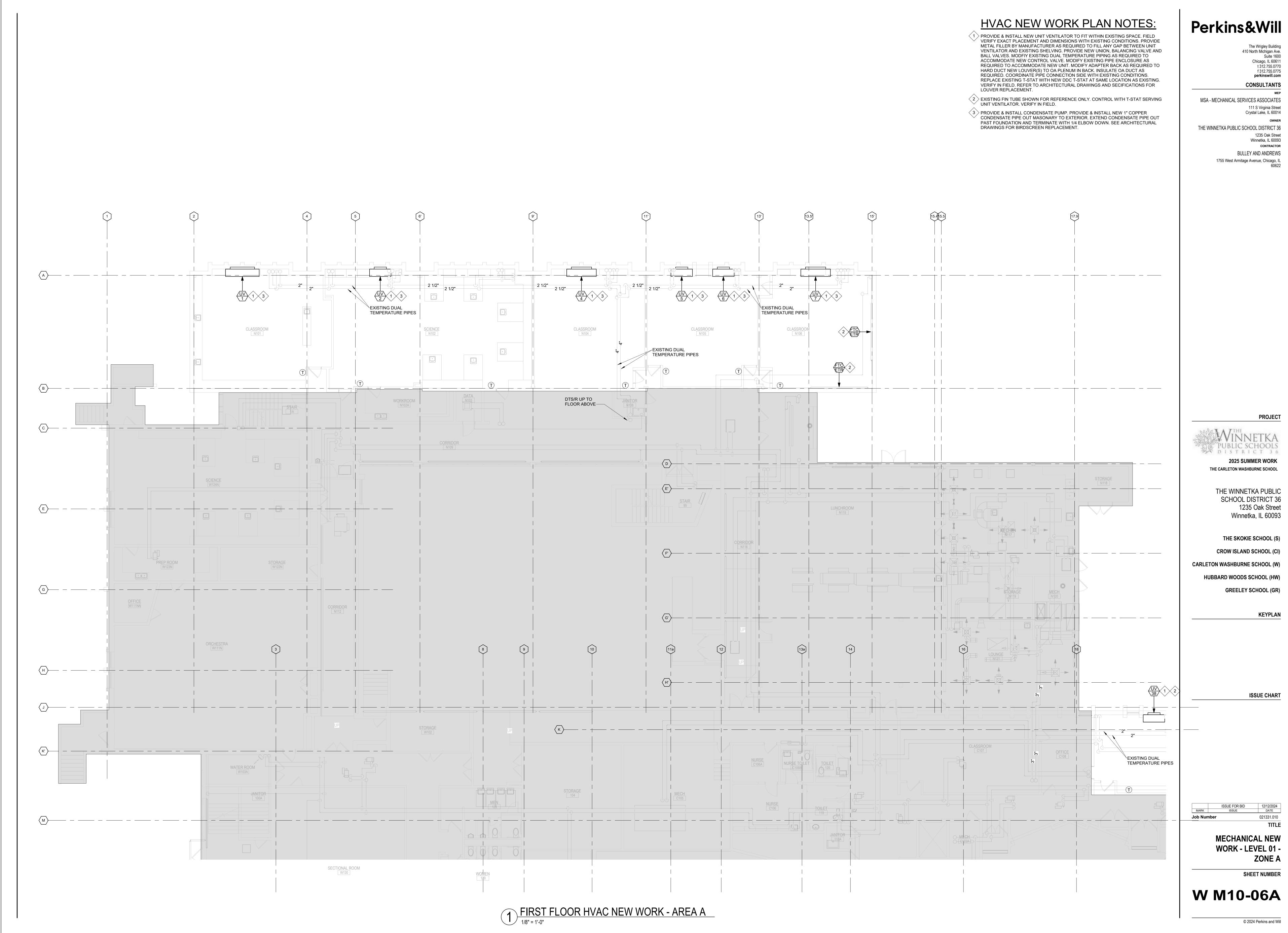
- 1 DEMOLISH AND REMOVE EXISTING UNIT VENTILATOR, CONDENSATE PIPE OUT EXTERIOR & DUAL TEMPERATURE PIPES BACK TO POINT OF RECONNECTION. EXISTING UTILITY CABINET & DUAL TEMPERATURE PIPES TO REMAIN. DEMOLISH AND REMOVE EXISTING T-STAT, PREPARE TO REPLACE WITH NEW IN SAME LOCATION. FIELD VERIFY EXACT LOCATION. PATCH, PAINT AND SEAL ANY ABANDONED WALL/FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. REFER TO ARCHITECTURAL PLANS FOR LOUVER REPLACEMENT.
- 2 DEMOLISH AND REMOVE EXISTING PUMP. PREPARE TO MODIFY/EXTEND EXISTING PIPE AS REQUIRED TO CONNECT TO NEW PUMP IN SAME LOCATION.
- 3 MEASURE AND RECORD PUMP PERFORMANCE PRIOR TO ANY DEMOLITION. SUBMIT PUMP PERFOMANCE TO ARCHITECT PRIOR TO ORDERING NEW PUMP. PREPARE TO BALANCE NEW PUMP TO MATCH EXISTING PERFORMANCE.

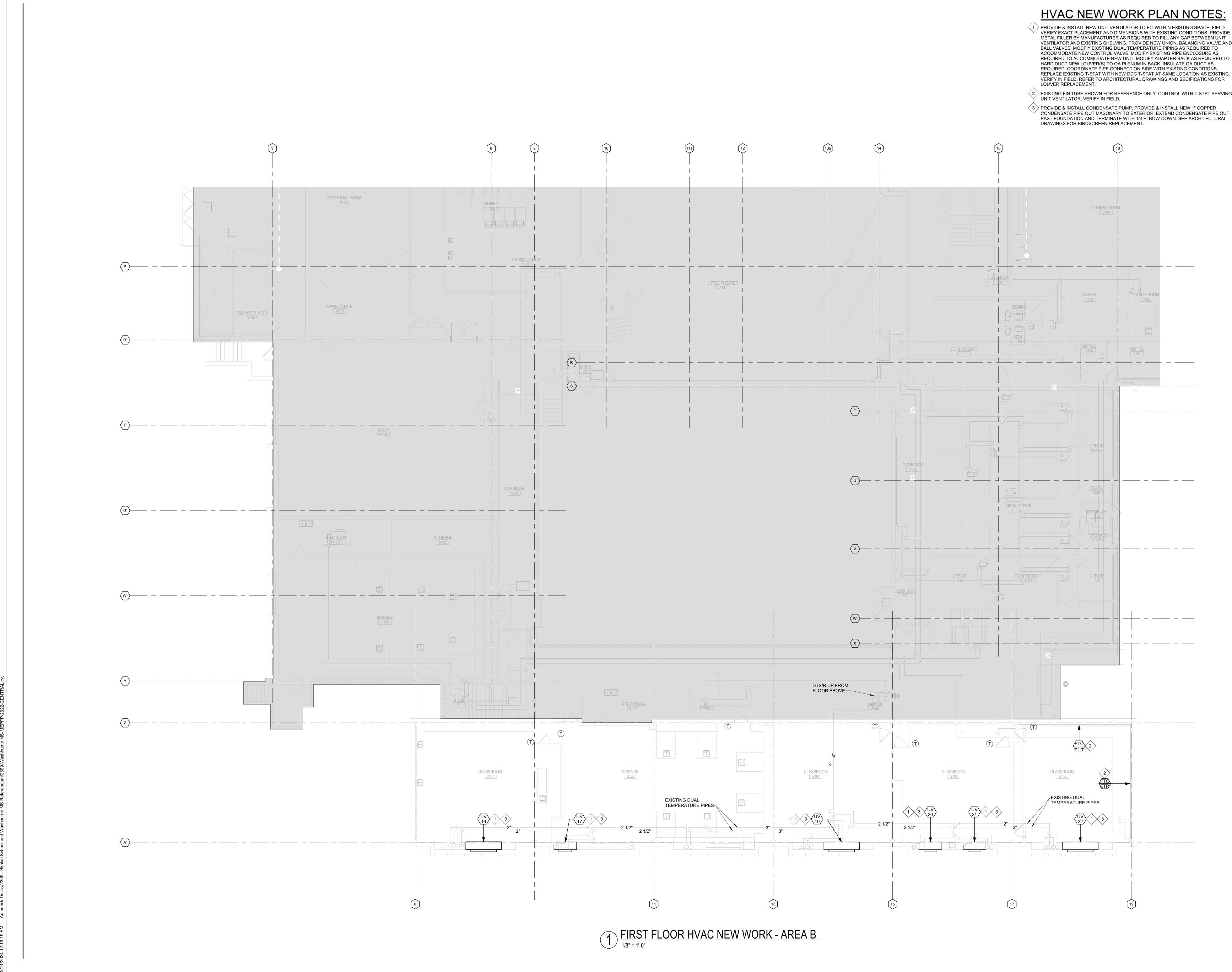


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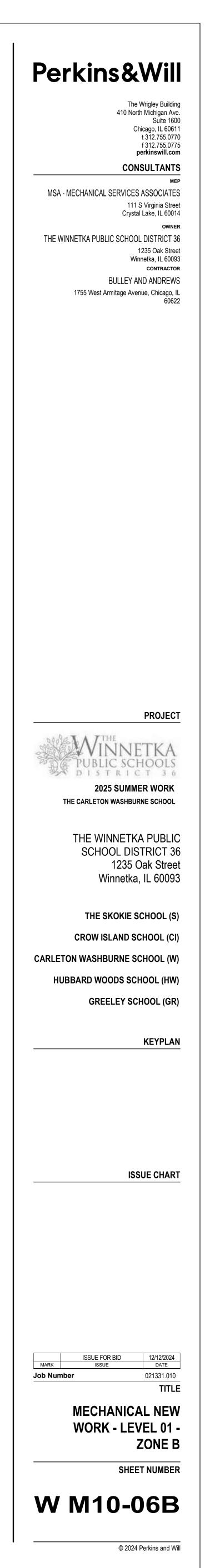
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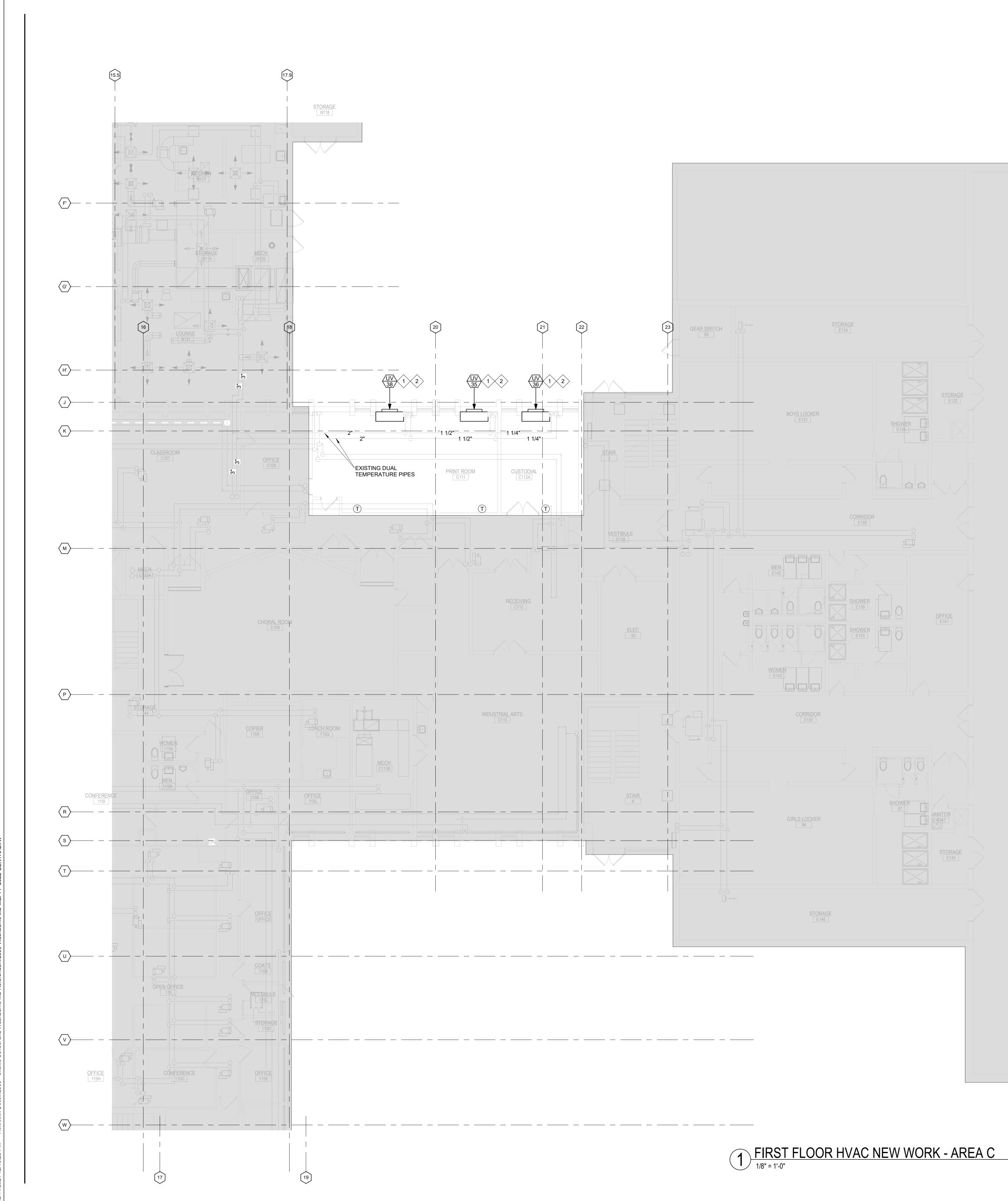




### HVAC NEW WORK PLAN NOTES:

- > PROVIDE & INSTALL NEW UNIT VENTILATOR TO FIT WITHIN EXISTING SPACE. FIELD VERIFY EXACT PLACEMENT AND DIMENSIONS WITH EXISTING CONDITIONS. PROVIDE METAL FILLER BY MANUFACTURER AS REQUIRED TO FILL ANY GAP BETWEEN UNIT VENTILATOR AND EXISTING SHELVING. PROVIDE NEW UNION, BALANCING VALVE AND BALL VALVES. MODFIY EXISTING DUAL TEMPERATURE PIPING AS REQUIRED TO ACCOMMODATE NEW CONTROL VALVE. MODIFY EXISTING PIPE ENCLOSURE AS REQUIRED TO ACCOMMODATE NEW UNIT. MODIFY ADAPTER BACK AS REQUIRED TO HARD DUCT NEW LOUVER(S) TO OA PLENUM IN BACK. INSULATE OA DUCT AS REQUIRED. COORDINATE PIPE CONNECTION SIDE WITH EXISTING CONDITIONS. REPLACE EXISTING T-STAT WITH NEW DDC T-STAT AT SAME LOCATION AS EXISTING. VERIFY IN FIELD. REFER TO ARCHITECTURAL DRAWINGS AND SECIFICATIONS FOR
- 2 EXISTING FIN TUBE SHOWN FOR REFERENCE ONLY. CONTROL WITH T-STAT SERVING UNIT VENTILATOR. VERIFY IN FIELD.  $\langle$  3  $\rangle$  PROVIDE & INSTALL CONDENSATE PUMP. PROVIDE & INSTALL NEW 1" COPPER -
- PAST FOUNDATION AND TERMINATE WITH 1/4 ELBOW DOWN. SEE ARCHITECTURAL

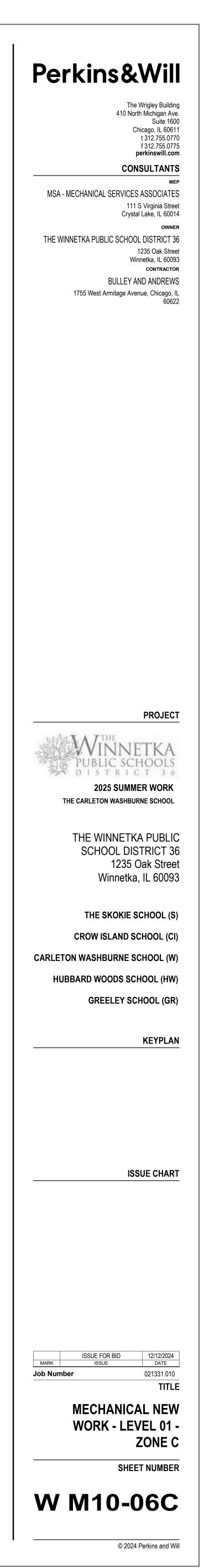


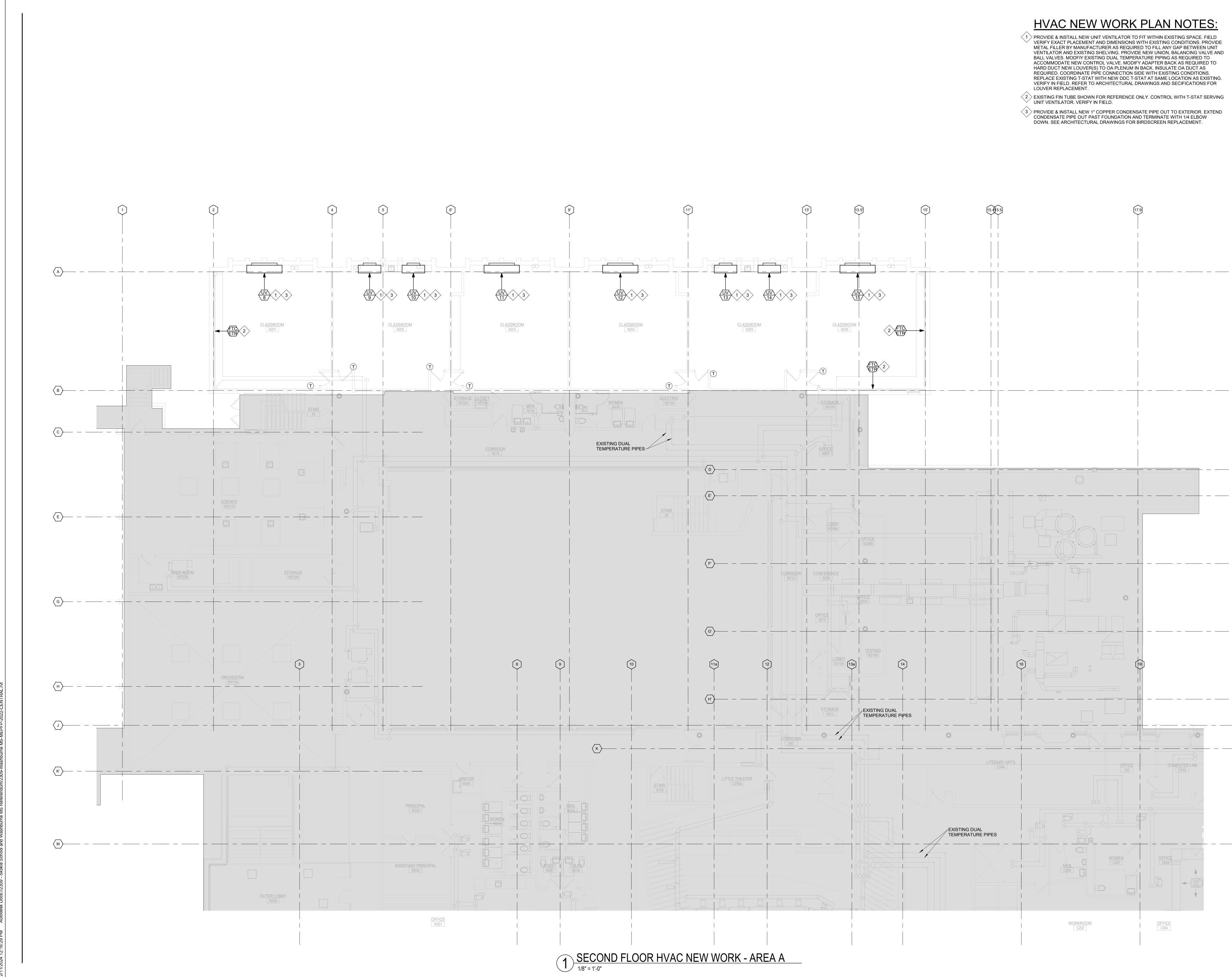


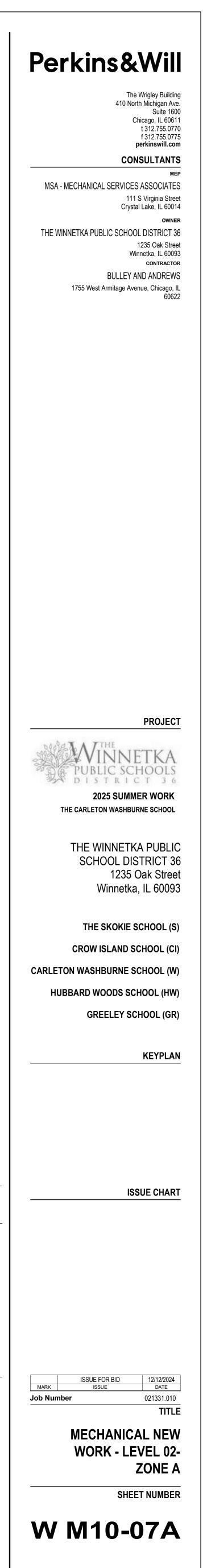
### HVAC NEW WORK PLAN NOTES:

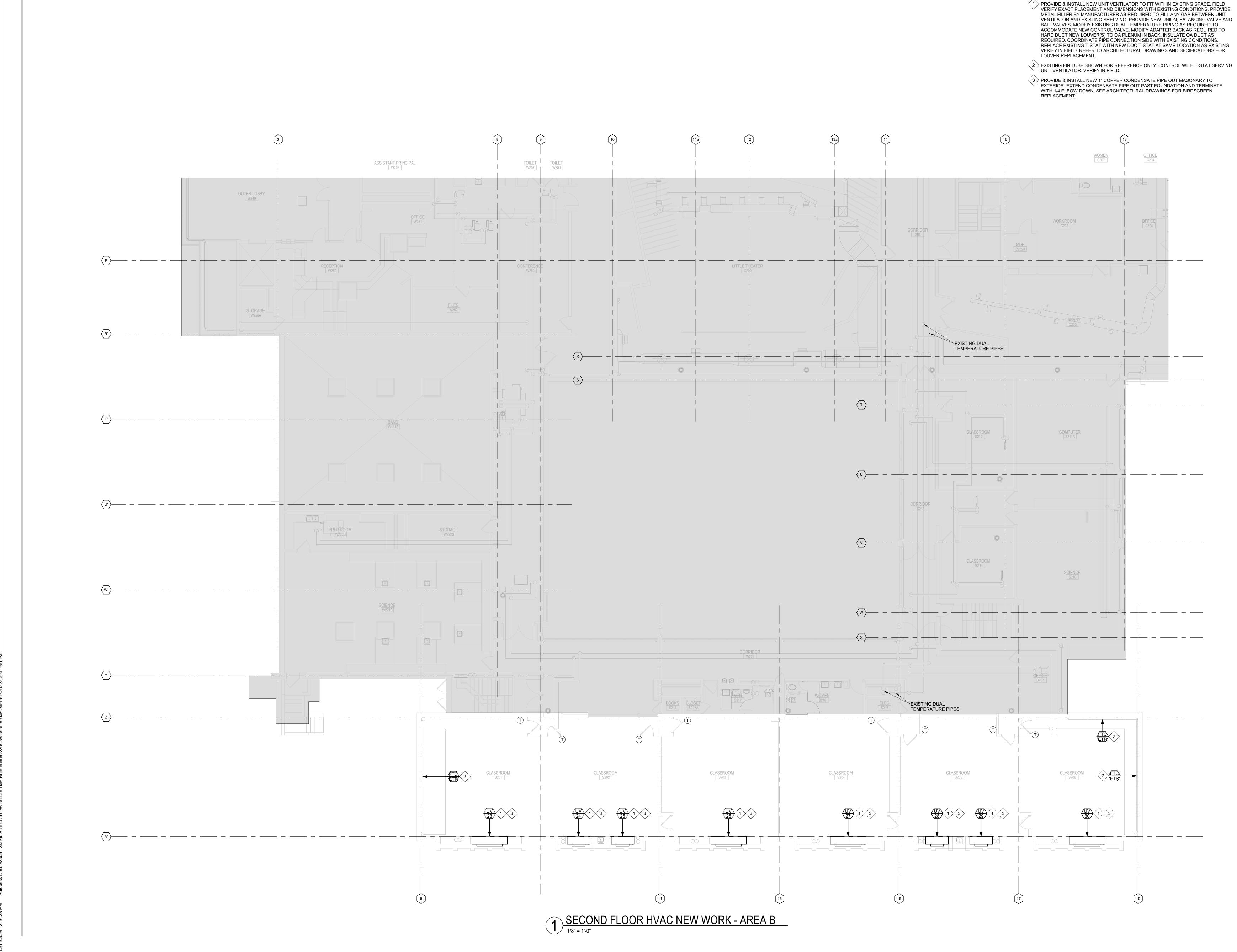
> PROVIDE & INSTALL NEW UNIT VENTILATOR TO FIT WITHIN EXISTING SPACE. FIELD VERIFY EXACT PLACEMENT AND DIMENSIONS WITH EXISTING CONDITIONS. PROVIDE METAL FILLER BY MANUFACTURER AS REQUIRED TO FILL ANY GAP BETWEEN UNIT VENTILATOR AND EXISTING SHELVING. PROVIDE NEW UNION, BALANCING VALVE AND BALL VALVES. MODFIY EXISTING DUAL TEMPERATURE PIPING AS REQUIRED TO ACCOMMODATE NEW CONTROL VALVE. MODIFY EXISTING PIPE ENCLOSURE AS REQUIRED TO ACCOMMODATE NEW UNIT. MODIFY ADAPTER BACK AS REQUIRED TO HARD DUCT NEW LOUVER(S) TO OA PLENUM IN BACK. INSULATE OA DUCT AS REQUIRED. COORDINATE PIPE CONNECTION SIDE WITH EXISTING CONDITIONS. REPLACE EXISTING T-STAT WITH NEW DDC T-STAT AT SAME LOCATION AS EXISTING. VERIFY IN FIELD. REFER TO ARCHITECTURAL DRAWINGS AND SECIFICATIONS FOR LOUVER REPLACEMENT.

2 PROVIDE & INSTALL CONDENSATE PUMP. PROVIDE & INSTALL NEW 1" COPPER CONDENSATE PIPE OUT MASONARY TO EXTERIOR. EXTEND CONDENSATE PIPE OUT PAST FOUNDATION AND TERMINATE WITH 1/4 ELBOW DOWN. SEE ARCHITECTURAL DRAWINGS FOR BIRDSCREEN REPLACEMENT.





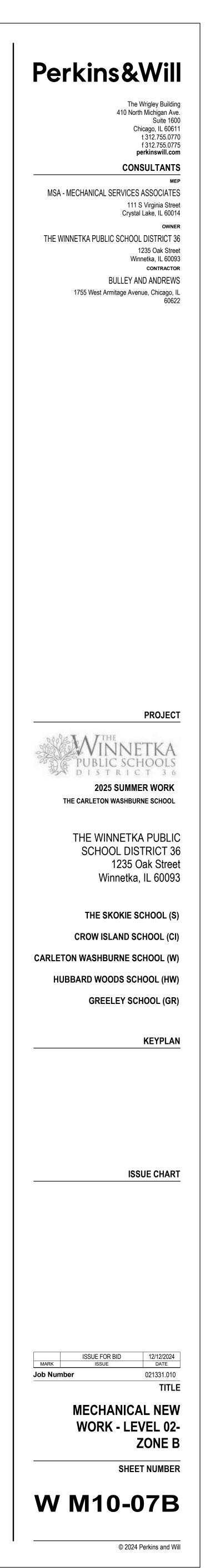




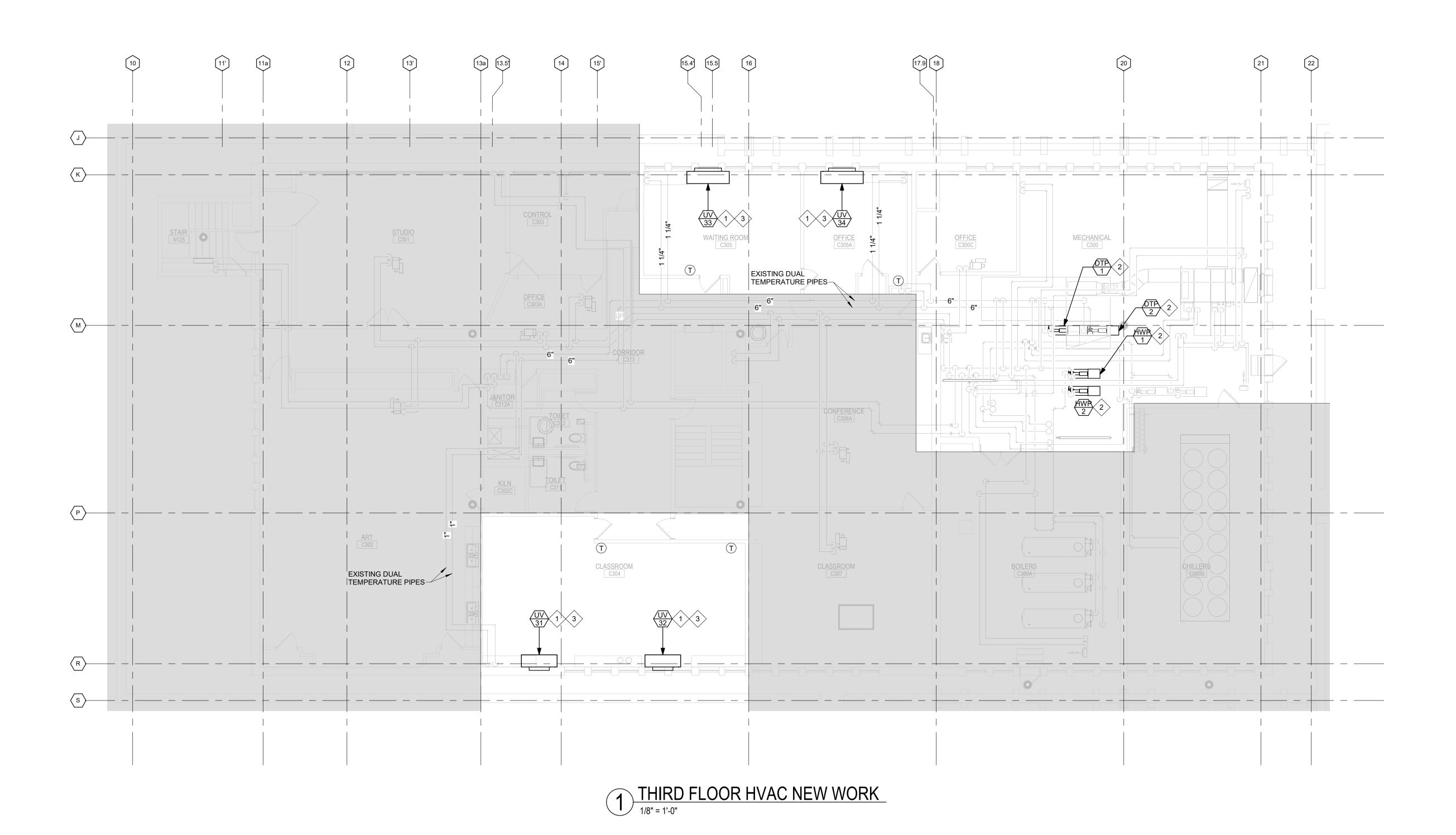
## HVAC NEW WORK PLAN NOTES:

VERIFY EXACT PLACEMENT AND DIMENSIONS WITH EXISTING CONDITIONS. PROVIDE METAL FILLER BY MANUFACTURER AS REQUIRED TO FILL ANY GAP BETWEEN UNIT VENTILATOR AND EXISTING SHELVING. PROVIDE NEW UNION, BALANCING VALVE AND BALL VALVES. MODFIY EXISTING DUAL TEMPERATURE PIPING AS REQUIRED TO ACCOMMODATE NEW CONTROL VALVE. MODIFY ADAPTER BACK AS REQUIRED TO HARD DUCT NEW LOUVER(S) TO OA PLENUM IN BACK. INSULATE OA DUCT AS REQUIRED. COORDINATE PIPE CONNECTION SIDE WITH EXISTING CONDITIONS. REPLACE EXISTING T-STAT WITH NEW DDC T-STAT AT SAME LOCATION AS EXISTING. VERIFY IN FIELD. REFER TO ARCHITECTURAL DRAWINGS AND SECIFICATIONS FOR

 $\langle$  3  $\rangle$  PROVIDE & INSTALL NEW 1" COPPER CONDENSATE PIPE OUT MASONARY TO EXTERIOR. EXTEND CONDENSATE PIPE OUT PAST FOUNDATION AND TERMINATE



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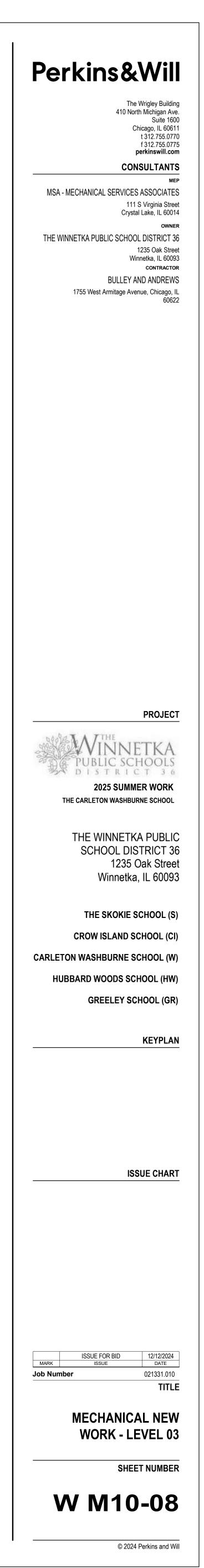


### HVAC NEW WORK PLAN NOTES:

- PROVIDE & INSTALL NEW UNIT VENTILATOR TO FIT WITHIN EXISTING SPACE. FIELD VERIFY EXACT PLACEMENT AND DIMENSIONS WITH EXISTING CONDITIONS. PROVIDE METAL FILLER BY MANUFACTURER AS REQUIRED TO FILL ANY GAP BETWEEN UNIT VENTILATOR AND EXISTING SHELVING. PROVIDE NEW UNION, BALANCING VALVE AND BALL VALVES. MODIFY EXISTING DUAL TEMPERATURE PIPING AS REQUIRED TO ACCOMMODATE NEW CONTROL VALVE. MODIFY EXISTING PIPE ENCLOSURE AS REQUIRED TO ACCOMMODATE NEW UNIT. MODIFY ADAPTER BACK AS REQUIRED TO HARD DUCT NEW LOUVER(S) TO OA PLENUM IN BACK. INSULATE OA DUCT AS REQUIRED. COORDINATE PIPE CONNECTION SIDE WITH EXISTING CONDITIONS. REPLACE EXISTING T-STAT WITH NEW DDC T-STAT AT SAME LOCATION AS EXISTING. VERIFY IN FIELD. REFER TO ARCHITECTURAL DRAWINGS AND SECIFICATIONS FOR LOUVER REPLACEMENT.
- PROVIDE & INSTALL NEW PUMP ON EXISTING EQUIPMENT PAD. MODIFY/EXTEND PAD AS REQUIRED TO ACCOMMODATE NEW PUMP. MODIFY/EXTEND EXISTING PIPING AS REQUIRED TO CONNECT TO NEW PUMP. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. FIELD COORDINATE VFD LOCATION. PROVIDE NEW TRIPLE DUTY VALVE, FLEX CONNECTIONS, ETC. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 3 PROVIDE & INSTALL NEW 1" COPPER CONDENSATE PIPE OUT MASONARY TO EXTERIOR. EXTEND CONDENSATE PIPE OUT PAST FOUNDATION AND TERMINATE WITH 1/4 ELBOW DOWN. SEE ARCHITECTURAL DRAWINGS FOR BIRDSCREEN REPLACEMENT.

### DUAL TEMPERATURE NOTES:

EXISTING CONSTANT FLOW DUAL TEMPERATURE SYSTEM TO BE CONVERTED TO VARIABLE FLOW. CONTROLS CONTRACTOR TO COORDINATE EXACT LOCATION(S) AND QUANTITY OF DIFFERENTIAL PRESSURE SENSORS TO BE INSTALLED IN EXISTING DUAL TEMPERATURE PIPES FOR PROPER OPERATION. DIFFERENTIAL PRESSURE SENSORS TO BE LOCATED APPROXIMATELY 2/3 DISTANCE OF DUAL TEMPERATURE PIPE SYSTEM. VERIFY IN FIELD.



## MECHANICAL GENERAL DEMOLITION NOTES:

NOTES RE: EXISTING CONDITIONS

- VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
- MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
- DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER MECHANICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
- DISCONNECT, REMOVE AND RELOCATE EXISTING MECHANICAL MATERIALS AND EQUIPMENT, AND ALL OTHER MECHANICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN MECHANICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
- 6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS. ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR.
- WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
- a) CUT PIPING, CONDUITS AND DUCTS OFF AT SLAB OR WALL LINE. b) CAP ALL OBSOLETE PIPING AND DUCTWORK.
- WHERE THE EXISTING PIPING, CONDUIT OR DUCTWORK SERVING ANY EXISTING MECHANICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK.

CONTRACTOR IS RESPONSIBLE FOR ISOLATING, DRAINING, REFILLING & VENTING OF ALL SYSTEMS REQUIRED FOR EXECUTION OF WORK. COORDINATE PROCEDURES WITH OWNER.

NOTES RE: INSPECTING EXISTING BUILDING

- 1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
- WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
- CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
- CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT PRIOR TO BIDDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

### LEGENDS:

INDICATES EXISTING TO REMAIN.

- ----- INDICATES EXISTING TO BE DISCONNECTED AND REMOVED
- E.T.R. EXISTING TO REMAIN.

MECHANICAL GENERAL NOTES:

2)

1) CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CHASES, DUCTWORK AND PIPE SIZES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR A) THE CONTRACTOR FAILING TO DO SO. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES AND CAPACITIES OF ALL EQUIPMENT, APPARATUS AND DEVICES, INCLUDING BUT NOT

B) LIMITED TO TERMINAL UNITS, FANS, CONVECTORS, FANS, ETC. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROCESS FOR ACCESSING SITE, ROOF, FLOOR AND SPACE. CONTRACTOR SHALL NOT C) CUT ANY HOLES, IN FACADE, ROOF, FLOORS, ETC. UNLESS COMPLETELY NECESSARY AND WITH PRIOR APPROVAL FROM THE OWNER AND ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCLUDING PATCHING AND REPAIR REQUIRED TO RETURN TO ORIGINAL CONDITION.

THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INDICATE APPROXIMATE LOCATION OF DUCTWORK, PIPING AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS, SIZES AND ROUTING OF THE EXISTING DUCTS, PIPING, ETC. CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED A) WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. OWNER TO BE PROVIDED WITH RIGHT OF REFUSAL FOR SALVAGE VALUE OR ATTIC STOCK. IF OWNER REFUSES CONTRACTOR SHALL REMOVE ALL DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE AND PROPERLY DISPOSE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND EQUIPMENT AND INSTALL SAME AS REQUIRED TO ACCOMPLISH WORK AND PROVIDE B)

COMPLETE AND FULLY FUNCTIONING SYSTEMS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY

MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST.

ALL WORK SHALL BE IN ACCORDANCE WITH 2015 INTERNATIONAL MECHANICAL CODE AND THE LATEST EDITION OF THE ILLINOIS ENERGY CONSERVATION CODE. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.

ALL EQUIPMENT, MATERIALS, ETC. SHALL COMPLY WITH THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).

ALL PERMITS, FEES, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL EQUIPMENT, TERMINAL UNITS, REHEAT COILS, DAMPERS, DIFFUSERS AND GRILLES SHALL BE UL LISTED. SUBMITTALS 9)

SUBMIT EQUIPMENT SPECIFICATIONS AND CUTS FOR REVIEW AND APPROVAL.

SUBMIT ASSEMBLED PRINTED OPERATION AND MAINTENANCE MANUALS OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS IN ACCORDANCE WITH SECTION C408.1.1 OF THE 2018 IECC. SUBMIT COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE PIPING, DUCT, DIFFUSER, LIGHT FIXTURE, C)

STRUCTURE AND THERMOSTAT LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR SHALL SUBMIT CERTIFIED TEST AND BALANCE REPORTS FOR APPROVAL PRIOR TO FINAL INSPECTION BY AHJ. SUBMIT EQUIPMENT FUNCTIONAL TEST RESULTS, CONTROLS FUNCTIONAL TEST RESULTS AND ECONOMIZER FUNCTIONAL TEST RESULTS.

PRIOR TO FINAL INSPECTION BY AHJ. SUBMIT ITEMIZED DEFICIENCIES LIST AND DEFERRED TESTING LIST PRIOR TO FINAL INSPECTION BY AHJ. SUBMIT SCHEDULE FOR ALL REQUIRED TRAINING PRIOR TO FINAL INSPECTION BY AHJ.

SUBMIT AS-BUILT DRAWING INDICATING A NUMBERING SYSTEM WHICH CORRELATES PLAN WITH BALANCE REPORT, VAV BOXES, ETC. SUBMIT AS-BUILT DRAWINGS FOR DUCTWORK AND PIPING, INCLUDING THERMOSTAT LOCATIONS.

SUBMIT EQUIPMENT AND CONTROL OPERATIONS AND MAINTENANCE MANUALS TO OWNER WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY ALL DEFICIENCIES SHALL BE CORRECTED AND THE FUNCTIONAL TEST RESULTS SUBMITTED WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE K) OF OCCUPANCY.

CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, 10) EQUIPMENT AND WORKMANSHIP

11) PROVIDE COMPETENT MANUFACTURER CERTIFIED OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL INSTALLED EQUIPMENT AND TEMPERATURE CONTROLS. TRAINING MUST BE COMPLETED WITHIN 90 DAYS OF THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. SUBMIT SCHEDULE OF TRAINING SESSIONS PRIOR TO FINAL INSPECTION BY AHJ.

12) THE DRAWING INDICATES GENERAL CHARACTER AND LOCATION OF WORK INCLUDED, BUT HAVING MINOR SPECIALTIES OMITTED WHICH ARE TO BE PROVIDED AND INSTALLED WITHOUT EXTRA COST.

13) PROVIDE ISOLATION VALVES FOR ALL PIPING TAKE-OFFS FROM MAINS.

14) PROVIDE ALL CORES, OPENINGS, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATING OF WALLS. 15) VERIFY EXACT LOCATION OF TEMPERATURE SENSORS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

PROVIDE AND INSTALL VALVE TAGS, PIPE LABELS AND DUCTWORK LABELS. SUBMIT PROPOSED VALVE TAG AND LABELING NOMENCLATURE FOR REVIEW. PROVIDE OWNER WITH VALVE SCHEDULE IN FORMAT DETERMINED BY OWNER.

17) CONTRACTOR SHALL CUT ALL OPENINGS REQUIRED FOR HIS WORK. ALL OPENINGS SHALL BE SEALED AIR TIGHT. CONTRACTOR SHALL ALSO PATCH AND SEAL ANY EXISTING OPENINGS LEFT UNUSED AS A RESULT OF THIS WORK.

18) ALL NEW CONTROLS SHALL BE DDC. EXTEND EXISTING SYSTEM AS REQUIRED FOR NEW WORK. PROVIDE AND INSTALL TEMPERATURE SENSORS, CONDUIT, CABLING AND NECESSARY LOCAL AND NETWORK CONTROLLERS REQUIRED FOR A FULLY OPERATING SYSTEM. INCORPORATE NEW WORK, USING OWNER STANDARD SEQUENCES FOR SIMILAR SYSTEMS AND PROVIDE NEW GRAPHICS, ALARMS, ETC. TO MEET OWNER'S STANDARD.

19) COMMISSIONING PLAN.

A) CERTIFY THAT HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED, AND STARTED AND ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS. CERTIFY THAT HVAC&R INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED, THAT THEY ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS, AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.

CERTIFY THAT TAB PROCEDURES HAVE BEEN COMPLETED AND THAT TAB REPORTS HAVE BEEN SUBMITTED, DISCREPANCIES CORRECTED, C) AND CORRECTIVE WORK APPROVED. SET SYSTEMS, SUBSYSTEMS, AND EQUIPMENT INTO OPERATING MODE TO BE TESTED ACCORDING TO APPROVED TEST PROCEDURES (E.G., D)

NORMAL SHUTDOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, UNOCCUPIED CYCLE, EMERGENCY POWER, AND ALARM CONDITIONS). MEASURE CAPACITIES AND EFFECTIVENESS OF SYSTEMS, ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS, INCLUDING

OPERATIONAL AND CONTROL FUNCTIONS TO VERIFY COMPLIANCE WITH ACCEPTANCE CRITERIA. TEST SYSTEMS, ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS OPERATING MODES, INTERLOCKS, CONTROL RESPONSES, AND F) RESPONSES TO ABNORMAL OR EMERGENCY CONDITIONS, AND RESPONSE ACCORDING TO ACCEPTANCE CRITERIA.

20) CONSTRUCTION CHECKLISTS: PREPARE AND SUBMIT DETAILED CONSTRUCTION CHECKLISTS FOR HVAC&R SYSTEMS, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS. CONTRIBUTORS TO THE DEVELOPMENT OF CONSTRUCTION CHECKLISTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: A)

HVAC&R SYSTEMS AND EQUIPMENT INSTALLERS. TAB TECHNICIANS. HVAC&R INSTRUMENTATION AND CONTROLS INSTALLERS.

PERFORM TESTS USING DESIGN CONDITIONS, WHENEVER POSSIBLE.

SIMULATED CONDITIONS MAY, WITH APPROVAL OF ARCHITECT, BE IMPOSED USING AN ARTIFICIAL LOAD WHEN IT IS IMPRACTICAL TO TEST A) UNDER DESIGN CONDITIONS. BEFORE SIMULATING CONDITIONS, CALIBRATE TESTING INSTRUMENTS. PROVIDE EQUIPMENT TO SIMULATE LOADS. SET SIMULATED CONDITIONS AS DIRECTED BY COMMISSIONING COORDINATOR AND DOCUMENT SIMULATED CONDITIONS AND METHODS OF SIMULATION. AFTER TESTS, RETURN CONFIGURATIONS AND SETTINGS TO NORMAL OPERATING CONDITIONS. COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SET POINTS BE ALTERED WHEN SIMULATING CONDITIONS IS IMPRACTICAL COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SENSOR VALUES BE ALTERED WITH A SIGNAL GENERATOR WHEN DESIGN OR SIMULATING CONDITIONS AND ALTERING SET POINTS ARE IMPRACTICAL.

22) IF TESTS CANNOT BE COMPLETED BECAUSE OF A DEFICIENCY OUTSIDE THE SCOPE OF THE HVAC&R SYSTEM, DOCUMENT THE DEFICIENCY AND REPORT IT TO OWNER. AFTER DEFICIENCIES ARE RESOLVED, RESCHEDULE TESTS.

23) IF SEASONAL TESTING IS SPECIFIED, COMPLETE APPROPRIATE INITIAL PERFORMANCE TESTS AND DOCUMENTATION AND SCHEDULE SEASONAL TESTS.

24) COORDINATE SCHEDULE WITH, AND PERFORM THE FOLLOWING ACTIVITIES AT THE DIRECTION OF, COMMISSIONING COORDINATOR.

COMPLY WITH CONSTRUCTION CHECKLIST REQUIREMENTS, INCLUDING MATERIAL VERIFICATION, INSTALLATION CHECKS, START-UP, AND 25) PERFORMANCE TESTS REQUIREMENTS SPECIFIED IN SECTIONS SPECIFYING HVAC SYSTEMS AND EQUIPMENT.

26) PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO COMPLETE AND DOCUMENT THE FOLLOWING:

PERFORMANCE TESTS. DEMONSTRATION OF A SAMPLE OF PERFORMANCE TESTS.

COMMISSIONING TESTS. COMMISSIONING TEST DEMONSTRATIONS.

27) COMMISSIONING AND COMPLETION REQUIREMENTS: PRIOR TO FINAL INSPECTION BY AUTHORITY HAVING JURISDICTION SUBMIT THE FOLLOWING FOR REVIEW BY THE ENGINEER.

HVAC SYSTEMS TEST AND BALANCE REPORT. A) FUNCTIONAL PERFORMANCE TESTING REPORTS FOR THE FOLLOWING:

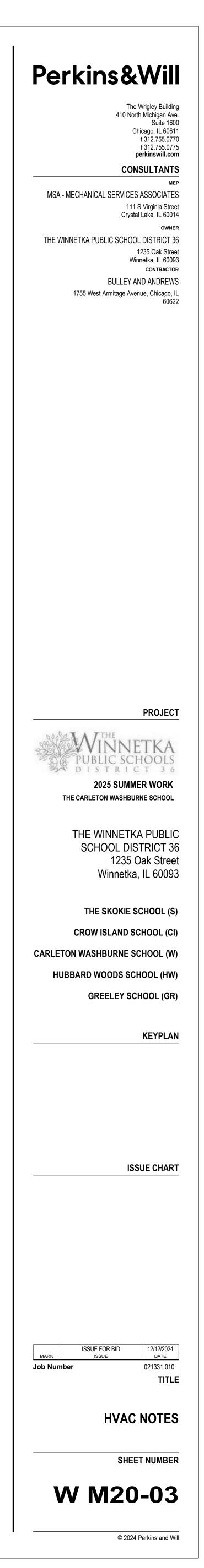
(1) HVAC EQUIPMENT SHALL UNDERGO FUNCTIONAL PERFORMANCE TESTING TO DEMONSTRATE THAT THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS AND SYSTEM TO SYSTEM INTERFACING ARE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. TESTING SHALL INCLUDE ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION AT FULL LOAD AND PART LOAD, REDUNDANT MODE, PERFORMANCE OF ALARMS AND MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

HVAC CONTROL SYSTEM SHALL BE TESTED TO DOCUMENT PROPER CALIBRATION AND ADJUSTMENT AND THAT THE SYSTEMS OPERATE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO DOCUMENT OPERATION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. AIR ECONOMIZERS SHALL BE TESTED TO DOCUMENT PROPER OPERATION IN ACCORDANCE WITH THE MANUFACTURERS

SPECIFICATIONS. ITEMIZED LIST OF DEFICIENCIES FOUND DURING TESTING THAT HAVE NOT BEEN CORRECTED. DEFERRED TESTS THAT COULD NOT BE PERFORMED BECAUSE OF CLIMATIC CONDITIONS AND THE CLIMATIC CONDITIONS REQUIRED FOR

DEFERRED TESTS. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING COMMISSIONING PROCESS AND MEASURABLE CRITERIA FOR TEST

ACCEPTANCE. F) RECORD OF TRANSMITTANCE OF ALL OPERATION AND MAINTENANCE MANUALS



	MANUFACTURER			FA	N					HEAT	NG COIL	. (100%	WATER)				CHILL	ED WATE	RCOOL	ING COI	IL (100% WAT	ER)	MINIMUM	
٨G	MODEL NUMBER	C.F.M.	S.P.		H.P.	VOLTAGE	CONTROLS	E.A.T.	E.W.T.	L.W.T.	G.P.M.	P.D.	M.B.H.	L.A.T.	ROWS	E.A.T. DB WB	E.W.T.	L.W.T.	G.P.M.	P.D.	M.B.H. TOTAL SENS	L.A.T. DB WB ROW	O.A.	REMARKS
	DAIKIN UAVV9H15	1500	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0	44	54	11	11.9	55.0 34.1	55.7 5	375	1 - 17, 18
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	40	180	114.1	2.5	1.3	82.4	141.5	5	80.6 67.5	44	54	6.6	9.1	33.1 21.3	54.3 53.0 5	280	1 - 17, 18
$\rightarrow$	DAIKIN UAVV9H15	1500	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0	44	54	11	11.9	55.0 34.1		355	1 - 17, 18
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7		170	1 - 17, 18
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE 120 VOLT	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7		170	1 - 17, 18
	DAIKIN UAVV9H15	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0 77.5	44	54	11	11.9	55.0 34.1 55.0	55.7 5 53.3 5 55.7	350	1 - 17, 18
	DAIKIN UAVV9H15	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	66.0 77.5	44	54	11	11.9	34.1 29.7	5	355	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	65.9 77.5	44	54	6	7.4	19.3 29.7	5	175	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	65.9 77.5	44	54	6	7.4	19.3 55.0	5	175	1 - 17
	DAIKIN UAVV9H15 DAIKIN	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	66.0 77.5	44	54	11	11.9	34.1	5	330	1 - 17
2	DAIKIN UAVV9H15 DAIKIN	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	66.0 77.5	44	54	11	11.9	34.1 29.7	5	345	1 - 17
$\overrightarrow{V}$	DAIKIN UAVV9H07 DAIKIN	750	0		1/3	60 CYCLE 1 PHASE 120 VOLT	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	65.9 77.5	44	54	6	7.4	19.3 29.7	52.8 5 53.7	175	1 - 17
	DAIKIN UAVV9H07 DAIKIN	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT		50.8	180	114.1	2.5	1.3	82.4	118.6	5	65.9 77.5	44	54	6	7.4	19.3 55.0	55.7	175	1 - 17
57	UAVV9H15 DAIKIN	1500	0		1/3	60 CYCLE 1 PHASE 120 VOLT 60 CYCLE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	66.0 77.5	44	54	11	11.9	34.1 55.0	53.3 5 55.7 5	355	1 - 17
57	UAVV9H15 DAIKIN	750	0		1/3	120 VOLT 60 CYCLE	DDC READY	50 40	180	114.2	4.5 2.5	1.9	82.4	144.5	5	66.0 80.6	44	54	6.6		34.1 33.1		285	1 - 17, 18
	DAIKIN	1500	0		1/3	120 VOLT 60 CYCLE	DDC READY	40 50	180	114.1	4.5	1.3	82.4	141.5	5	67.5 77.5	44	54	0.0		21.3 55.0		355	1 - 17, 18
9	DAIKIN	750	0		1/3	1 PHASE 120 VOLT 60 CYCLE	DDC READY	50.8	180	114.2	2.5	1.9	82.4	144.5	5	66.0 77.5	44	54	6		34.1 29.7	53.3 53.7 5	175	1 - 17, 18
	UAVV9H07 DAIKIN UAVV9H07	750	0		1/3	1 PHASE 120 VOLT 60 CYCLE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	65.9 77.5	44	54	6		19.3 29.7	53.7 5	175	1 - 17, 18
	DAVV9H07 DAIKIN UAVV9H15	1500	0		1/3	1 PHASE 120 VOLT 60 CYCLE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	65.9 77.5	44	54	11	11.9	19.3 55.0	55.7 5	330	1 - 17, 18
Z / V 3 /	DAIKIN UAVV9H15	1500	0		1/3	1 PHASE 120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	66.0 77.5 66.0	44	54	11	11.9	34.1 55.0 34.1	55.7 5	360	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	1 PHASE 120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3	53.7 5	175	1 - 17
V 5	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3	53.7 5	175	1 - 17
	DAIKIN UAVV9H15	1500	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0	44	54	11	11.9	55.0 34.1	55.7 5	350	1 - 17
	DAIKIN UAVV9H15	1500	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0	44	54	11	11.9	55.0 34.1	55.7 5	330	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3	53.7 52.8 5	180	1 - 17
V 9	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3	53.7 52.8 5	180	1 - 17
	DAIKIN UAVV9H15	1500	0	-	1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50	180	114.2	4.5	1.9	148.1	144.5	5	77.5 66.0	44	54	11	11.9	55.0 34.1	55.7 53.3 5	350	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3		175	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	50.8	180	114.1	2.5	1.3	82.4	118.6	5	77.5 65.9	44	54	6	7.4	29.7 19.3	<hr/>	175	1 - 17
5	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	64	180	114.2	1.5	0.46	49.4	124.8	5	74 64	44	54	5	4.9	24.3 16.2		50	1 - 17
	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	64	180	114.2	1.5	0.46	49.4	124.8	5	74 64	44	54	5	4.9	24.3 16.2		50	1 - 17
$\rightarrow$	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	64	180	114.2	1.5	0.46	49.4	124.8	5	74 64	44	54	5	4.9	24.3		50	1 - 17, 18
5	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	64	180	114.2	1.5	0.46	49.4	124.8	5	74 64	44	54	5	4.9	24.3 16.2		50	1 - 17, 18
V 8	DAIKIN UAVV9H07	750	0		1/3	120 VOLT 60 CYCLE 1 PHASE	DDC READY	64	180	114.2	1.5	0.46	49.4	124.8	5	74 64	44	54	5	4.9	24.3 16.2	54.1 52.9 5	50	1 - 17, 18

<u>REMARKS</u>

1. CHILLED & HEATING WATER COIL W/LO-LIMIT SENSOR. 2. PUNCH HOLES AT SIDE OR TOP OF UNIT CABINET FOR PIPING ACCESS.

CONTRACTOR SHALL COORDINATE IN FIELD FOR EXACT SIDE OF CONNECTION. 3. U.V. TO BE PROVIDED WITH DDC READY CONTROLS. ADDITIONAL CONTROLS TO BE FIELD MOUNTED

BY TEMPERATURE CONTROL CONTRACTOR.

4. PROVIDE WITH INTEGRAL DISCONNECT SWITCH. COLOR & FINISH TO BE SELECTED BY ARCHITECT. 5.

6. TOP DISCHARGE & BOTTOM INLET WITH GRILLES.

PROVIDE INSULATED FULL ADAPTER BACK UNIT. 21-1/4" DEEP.
 ASHRAE CYCLE II CONTROL OF FACE AND BY-PASS DAMPERS.
 REMOTE SENSOR WITH FAN SWITCH.

TAG	MANUFACTURER
HWP 1&2	B & G
DTP 1&2	B & G
2. VAF CO 3. PR 4. 100 5. PR (EP 6. PUI 7. PUI	RKS OVIDE BELL & GOSSI OVIDE CONNECTION RIABLE FREQUENCY NTRACTOR TO COOF OVIDE WITH GROUNI % WATER OVIDE WITH OPTION R/SiC/SiC/SS SEAL) MP HWP-2 TO BE STA MP DTP-2 TO BE STA ANCE PUMP TO FLC

2-WAY AUTOMATIC

COIL

10. UNIT MANUFACTURE SHALL FURNISH AND INSTALL AN E.C.M. FAN SPEED CONTROLLER

MOUNTED IN CABINET OF UNIT VENTILATOR FOR MANUAL ADJUSTMENT OF FAN SPEED. 11. THERMOSTAT TO BE REMOTE MOUNTED IN SAME LOCATION AS EXISTING THERMOSTAT. VERIFY IN FIELD.

12. PROVIDE 2" THICK T.A. FILTERS, MERV 13. 13. CONTROL WITH 2-WAY VALVE. REFER TO DETAILS.

14. PROVIDE SUB BASE AS REQUIRED TO MATCH HEIGHT OF ADJACENT SHELVING/CABINET. VERIFY HEIGHT IN FIELD.

15. PROVIDE END PANELS AS REQUIRED. VERIFY WITH EXISTING CONDITIONS IN FIELD. 16. PROVIDE METAL FILLER PANEL BY MANUFACTURER TO EXTEND WIDTH OF NEW UNIT VENTILATOR TO MATCH WIDTH OF REMOVED

UNIT VENTILATOR. FIELD MEASURE EXACT DIMENSIONS PRIOR TO ORDERING.

17. PROVIDE WITH OVERFLOW SWITCH WIRED FOR UNIT SHUT DOWN. 18. PROVIDE WITH LITTLE GIANT PLENUM SERIES CONDENSATE PUMP.



DRAIN PAN

## GENERAL MECHANICAL SYMBOLS

Ģ	GENERAL MECHA	<b>NICAL</b>	SYMBOLS
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ACCU	AIR COOLED CONDENSING UNIT		SUPPLY DUCT
AHU	AIR HANDLING UNIT		RETURN/EXHAUST DUCT
AS	AIR SEPARATOR		OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	400000	REINFORCED/INSULATED FLEX
СН	CABINET HEATER	-	SUPPLY DIFFUSER
CHS	CHILLED WATER RETURN	-2-	RETURN REGISTER
CHR	CHILLED WATER SUPPLY		45 DEGREE TAP
CP	CIRCULATION PUMP		SLOT DIFFUSER
СТ	COMPRESSION TANK	()	EXHAUST FAN ON ROOF
DG	DOOR GRILLE	9	FLUE UP
EXH	EXHAUST AIR	/	PNEUMATIC PIPING
EF	EXHAUST FAN	— D —	CONDENSATE DRAIN PIPING
FC	FLEX CONNECTION	->	GATE VALVE
FD	FIRE DAMPER		B & G CIRCUIT SETTER
GN	GOOSE NECK		CHECK VALVE
HP	HEAT PUMP		GAS COCK/ PLUG COCK
HWB	HOT WATER BOILER	-1001	GLOBE VALVE
HWR	HOT WATER RETURN		OS&Y VALVE
HWS	HOT WATER SUPPLY		TEMP. CONTROL VALVE
IV	INTAKE VENT		WELDED ELBOW
FT	FIN TUBE		BUTTERFLY VALVE
RG	RELIEF GRILLE		STRAINER
RV	RELIEF VENT		UNION
RA	RETURN AIR		BLIND FLANGE
SA	SUPPLY AIR	+O	ELBOW UP
OA	OUTSIDE AIR	C+	ELBOW DOWN
SWR	SYSTEM WATER RETURN		САР
SWS	SYSTEM WATER SUPPLY	$O/\Box$	PRESSURE/TEMP. GAGE
T	THERMOSTAT	C+++++++++++++++++++++++++++++++++++++	FIN TUBE RADIATION ELEMENT
H	HUMIDISTAT		SUPPLY PIPING
UH	UNIT HEATER		RETURN PIPING
UV	UNIT VENTILATOR		DIRECTION OF FLOW
VAV	VARIABLE AIR VOLUME	FS Y	FLOW SWITCH
VD	VOLUME DAMPER		CEILING FAN
WG	WITH GUARD	_6	BALL VALVE
O.A.C.	OPENING ABOVE CEILING	R.C.P.	REINFORCED CONCRETE PIPE
TWU	THROUGH WALL UNIT		SUPPLY UP - DOWN
	TOILET EXHAUST INLINE FAN		RETURN/EXHAUST UP - DN.
Μ	MOTOR OPERATED DAMPER		OUTSIDE AIR UP - DOWN
H/CWS	HEATING AND CHILLED SUPPLY	CWS	CONDENSER WATER SUPPLY
H/CWR	HEATING AND CHILLED RETURN	CWR	CONDENSER WATER RETURN

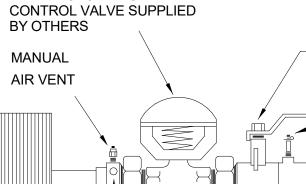
R	MODEL NUMBER	TYPE	G.P.M.	HEAD (FT.) WTR	IMPELLAR DIAMETER (INCHES)	R.P.M.	H.P.	VOLTAGE	SERVICE	REMARKS
	SERIES E-1510 4BD	BASE MOUNTED	717	50	8.625	1750	15	480 VOLT 3 PHASE 60 HZ	HOT WATER SYSTEM	1, 2, 3, 4, 5, 6, 8
	SERIES E-1510 4BD	BASE MOUNTED	455	50	7.875	1750	10	480 VOLT 3 PHASE 60 HZ	DUAL TEMPERATURE SYSTEM	1, 2, 3, 4, 5, 7

ELL & GOSSE ONNECTIONS TO EXISTING PIPING AS REQUIRED. VERIFY IN FIELD. REQUENCY DRIVE FURNISHED BY M.C. INSTALLED BY E.C. ALL VFDS ON PROJECT TO HAVE MATCHING MANUFACTURER AND MODELS. OR TO COORDINATE WITH EQUIPMENT MANUFACTURERS. ITH GROUNDING RINGS.

ITH OPTIONAL MECHANICAL SEAL, CARBON ROTATING RING AGAINST CERAMIC SEAT HELD BY A STAINLESS-STEEL SPRING AND EPT BELLOWS AND GASKET C/SS SEAL) -2 TO BE STAND-BY.

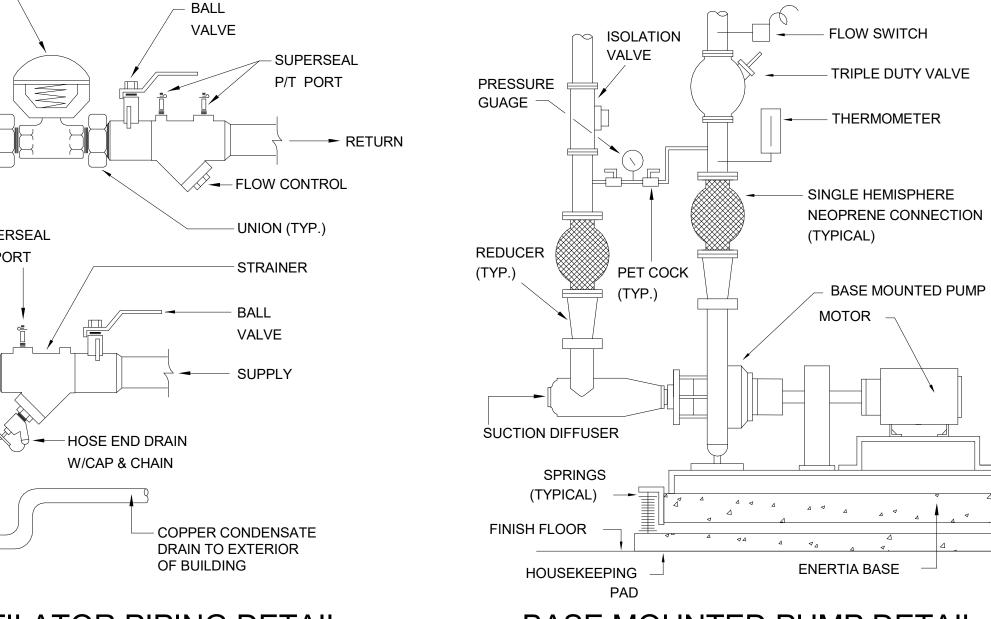
2 TO BE STAND-BY.

UMP TO FLOW MEASURED PRIOR TO DEMOLITION.

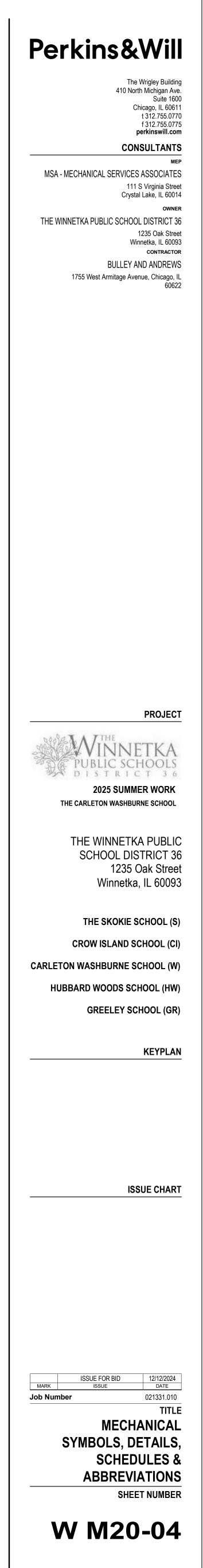


SUPERSEAL

P/T PORT



BASE MOUNTED PUMP DETAIL NO SCALE



**GENERAL ELECTRICAL DEMOLITION NOTES:** 

- PRIOR TO SUBMITTING THIS BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND THOROUGHLY ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS AND DETERMINE HOW THEY EFFECTIVELY WORK. THEY SHALL INCLUDE IN THEIR BID ANY ALTERATION, RELOCATION, REROUTING, ETC... OF EXISTING FACILITIES, WIRING, CONDUIT, REQUIRED FOR INSTALLATION OF NEW WORK. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE GIVEN CONSIDERATION FOR ADDITIONAL COMPENSATION DUE TO THEIR NEGLECT TO COMPLY WITH FOREGOING REQUIREMENTS.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES: 2015 INTERNATIONAL BUILDING CODE 2014 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL MECHANICAL CODE
  - 2015 INTERNATIONAL FIRE CODE, NFPA 72 ILLINOIS ACCESSIBILITY CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE IN ADDITION TO THE ABOVE, FOLLOW ALL LOCAL CODES AND AMENDMENTS, UTILITY COMPANY REQUIREMENTS AND ANY OTHER REQUIREMENTS APPLICABLE TO THIS JOB. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY REQUIRED DRAWINGS FOR APPROVAL TO ANY AGENCIES REQUIRING THEM AND OBTAIN NECESSARY PERMITS AT NO ADDITIONAL BID COSTS.
- ALL EQUIPMENT SHALL BE NEMA STANDARDS AND SHALL BE U.L. LISTED REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- RECEPTACLES FOR GENERAL POWER SHALL BE NEMA 5-20R HEAVY DUTY TAMPER RESISTANT SPEC GRADE DUPLEX RECEPTACLE, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER.
- MOUNT CONDUIT AND ELECTRICAL DEVICES FROM THE TOP CHORD OF BAR JOISTS ONLY. DO NOT RUN CONDUITS ABOVE TOP CHORD OF BAR JOIST, THROUGH WEB OF ROOF DECKING MATERIAL ABOVE OR WITHIN 6" OF ROOF DECK SO AS TO PREVENT DAMAGE FROM ROOFING
- MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG FOR POWER BRANCH CIRCUITS. USE #10 5. AWG MINIMUM IF RUNS ARE OVER 75 FEET. SIZE ALL CONDUCTORS IN ACCORDANCE WITH N.E.C. SECTION 310-15. MAINTAIN PROPER CONDUIT FILL CAPACITIES AND SIZE CONDUCTORS IN ACCORDANCE WITH ADJUSTMENT FACTORS LISTED IN N.E.C. 310-15 TABLE NOTE #8a (MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY). USE MULTIPLE PARALLEL RACEWAYS TO AVOID DERATING OF CONDUCTOR CAPACITIES, OTHERWISE INCREASE SIZE OF CONDUCTORS SO AS TO FOLLOW N.E.C. REQUIREMENTS.
- CONTRACTOR SHALL SIZE ALL CONDUCTORS OVER 75 FEET SO AS TO MAINTAIN A VOLTAGE DROP EQUAL TO OR LESS THAN 2%. BALANCE ALL PHASE WIRES WITHIN 5%.
- INSTALL A SEPARATE DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE OF BOTH MULTI-WIRE BRANCH CIRCUITS. IF A MULTI-WIRE BRANCH CIRCUIT CONTAINS THREE PHASE WIRES, THE CIRCUIT WILL REQUIRE THREE DEDICATED NEUTRALS. THE USE OF MULTI-POLE BRANCH BREAKERS TO ELIMINATE NEUTRAL CONDUCTORS IS NOT ALLOWED.
- 9. INSTALL GROUNDING WIRE TO ALL DEVICES. USE GREEN WIRE.
- 10. ALL JUNCTION BOXES ABOVE CEILINGS SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON OUTSIDE OF COVERPLATE. ALL RECESSED WALL MOUNTED/FLOOR MOUNTED JUNCTION BOXES SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON THE INSIDE OF THE JUNCTION BOX TOWARD FRONT OF BOX LIP SO AS TO BE VISIBLE WITHOUT REMOVING WIRING DEVICE.
- 11. ALL JUNCTION BOXES INSTALLED ABOVE LAY-IN CEILINGS MUST BE INSTALLED BELOW FIREPROOF/GYPSUM CEILING. BOXES MUST NOT BE INSTALLED WITHIN GYPSUM CEILING MATERIAL. ALL CONDUIT PENETRATIONS THROUGH GYPSUM CEILING MUST BE FIREPROOFED/PATCHED.
- 12. SLEEVE AND FIREPROOF ALL PENETRATIONS THROUGH WALLS AND FLOORS. ALL CORING BY CONTRACTOR SHALL BE COORDINATED WITH ARCHITECT. PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL CONDUITS AT BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL. 13. INSTALL BLANK PREFINISHED STAINLESS STEEL COVERPLATES ON ALL JUNCTION BOXES IN
- FINISHED AREAS NO LONGER USED AND CREATED BY DEMOLITION. USE BLANK GALVANIZED STEEL COVERPLATES FOR ALL BOXES ABOVE CEILINGS OR IN EXPOSED NON-FINISHED AREAS. 14. ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF
- THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL. PATCH AND PAINT SURROUNDING AREA. REPLACE DAMAGED TILES AND MATCH TILE RATING, PATTERN AND COLOR.
- 15. ALL EXPOSED RACEWAYS INSTALLED IN FINISHED AREAS SHALL BE OF THE METALLIC WIREMOLD TYPE. EXPOSED CONDUIT WILL ONLY BE INSTALLED BY PERMISSION OF THE ARCHITECT. ALL EXPOSED CONDUIT INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH SURROUNDING AREAS.
- 16. CONTRACTOR SHALL REFER TO ARCHITECTURAL CUTTING AND PATCHING SPECIFICATIONS FOR INFORMATION REGARDING PERFORMANCE STANDARDS AND PROCEDURES.
- 17. ALL DEVICES AND EQUIPMENT SHALL BE TESTED AND PROVED TO BE ELECTRICALLY AND MECHANICALLY WITHOUT DEFECTS. THE ELECTRICAL SYSTEM SHALL BE TESTED FOR GROUNDS OR SHORTS. IF THE TROUBLE IS WITHIN THE CIRCUIT WIRING, ALL SHORTED OR GROUNDED WIRES SHALL BE REPLACED AND THEN RE-TESTED. ALL METERS, CABLES, EQUIPMENT OR APPARATUS NECESSARY FOR MAKING ALL TESTS SHALL BE FURNISHED AND PROVIDED BY THIS CONTRACTOR. ANY TESTING OR EQUIPMENT MUST CONFORM TO OSHA REQUIREMENTS.
- 18. ALL OVERCURRENT PROTECTION AND WIRE SIZING FOR HVAC EQUIPMENT WILL BE COORDINATED BY THE CONTRACTOR WITH DRAWINGS AND MANUFACTURERS RECOMMENDATIONS. ALL FINAL CONNECTIONS MADE WITH FLEXIBLE CONDUIT FEEDING MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT, FLEXIBLE METAL CONDUIT AND SHALL HAVE GROUNDING WIRE INSTALLED.

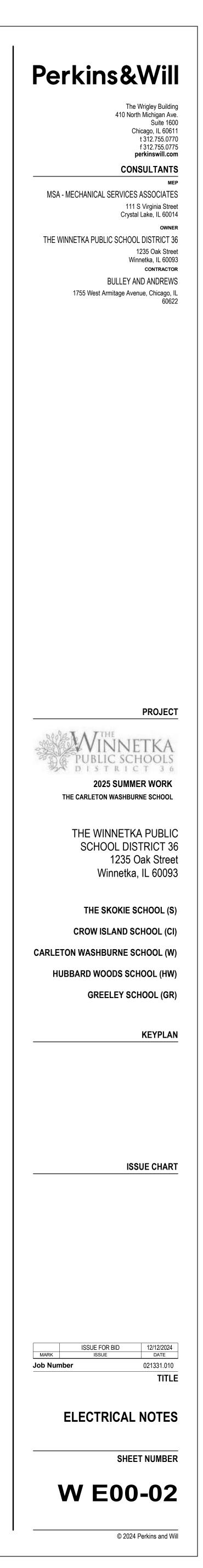
NOTE FOR NEW PLAN DRAWINGS: ALL DEVICES SHOWN DARK SOLID ARE NEW DEVICES OR INDICATING THE REINSTALLATION OF EXISTING DEVICES. ALL DEVICES SHOWN LIGHT SOLID ARE EXISTING TO REMAIN. HATCH AREA WITH NOT IN CONTRACT NOT (N.I.C.) SHALL BE ALLOWED TO ROUTE CONDUIT AND WIRES FOR BETWEEN DEVICES AND HEADEND, MDF/IDF OR ELECTRICAL ROOMS. ACCESS TO THIS AREA AND CEILING SHALL BE COORDINATED WITH THE OWNER AND ARCHITECT. ALL SMALL MECHANICAL EQUIPMENT INCLUDING UNIT VENTILATORS, FAN COILS, CABINET HEATERS, ETC., TO BE PROVIDED WITH A MOTOR RATED DISCONNECT SWITCH. REFER TO ENCLOSED CONTROLLER SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE:	S RE: EXISTING CONDITIONS:
1.	VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTIN PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2.	MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL IT AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3.	DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AN EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS WHICH ARE RENDERED OBSO BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO T OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
4.	DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL MATERIALS AN EQUIPMENT, AND ALL OTHER ELECTRICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS A DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT LOCATIONS. CONTRACTOR SHALL REVIEW ALL OTHER TRADES DRAWINGS AN COORDINATE ALL DEMOLISTION OR MODIFICATION WORK AS REQUIRED.
5.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN ELECTRICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN T FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NO SHALL BE GIVEN.
i.	COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS
7.	ALL CUTTING AND PATCHING AS REQUIRED FOR NEW WORK & ABANDONED DEVICES TO BE BY THE CONTRACTOR.
8.	WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERA AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHA a. CUT CONDUITS OFF AT SLAB OR WALL LINE b. CAP ALL OBSOLETE CONDUIT.
9.	WHERE THE EXISTING WIRING & CONDUIT SERVING ANY EXISTING ELECTRICA EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH CONDUIT & WIRIN
10.	DISCONNECT REMOVE AND SALVAGE EXISTING CEILING MOUNTED ELECTRIC/ FIRE ALARM AND LOW VOLTAGE DEVICES AND EQUIPMENT TO ACCOMMODAT DEMOLITION WORK FROM OTHER TRADES (CEILING, PIPE AND DUCT REWORK ALL WORK SHALL BE COORDINATE WITH OTHER TRADE. FURNISH AND INSTAL PERMANENT SUPPORTS FOR ANY UNSUPPORTED CONDUIT, BOX, OR CABLES FOUND ABOVE THE CEILING DURING ABOVE CEILING WORK, ALONG TO-BE- DEMOLISHED MECHANICAL PIPING, AND/OR AREAS WITH CEILINGS BEING REM

- THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS BEFORE SIGNING CONTRACTS. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
- WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
- CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
- CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL 4 TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE CONTRACT IS SIGNED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO. NOTE FOR DEMOLITION DRAWINGS:

ALL DEVICES SHOWN DARK DOTTED, DASHED, OR INDICATED WITH A PLAN NOTE (INDICATING REMOVAL) ARE EXISTING TO BE REMOVED. ALL DEVICES SHOWN LIGHT SOLID ÀRE EXISTING TO REMÁIN. IF THE CONTRACTOR DEEMS IT NECESSARY FOR A DEVICE TO BE REMOVED, THEY SHALL COORDINATE IN FIELD WITH THE ARCHITECT/ENGINEER FOR APPROVAL.

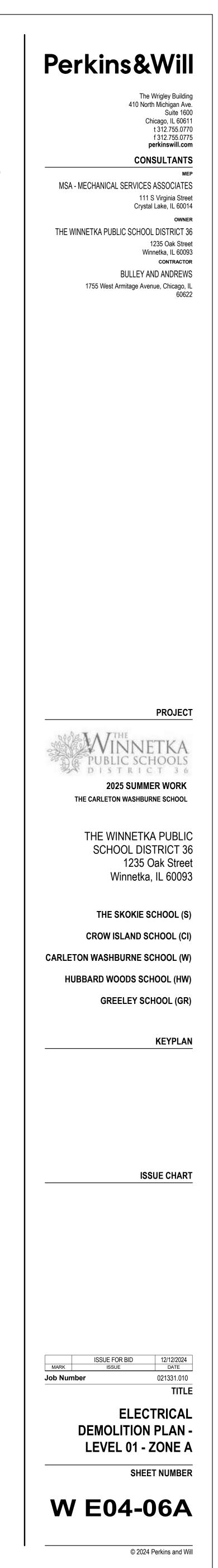
### GENERAL ELECTRICAL SYMBOLS SYMBOL DESCRIPTION と の JUNCT. BOX & FLEX CONDUIT **7**0 JUNCT. BOX WITH A SWITCH MOTOR VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT SWITCH PANELBOARD

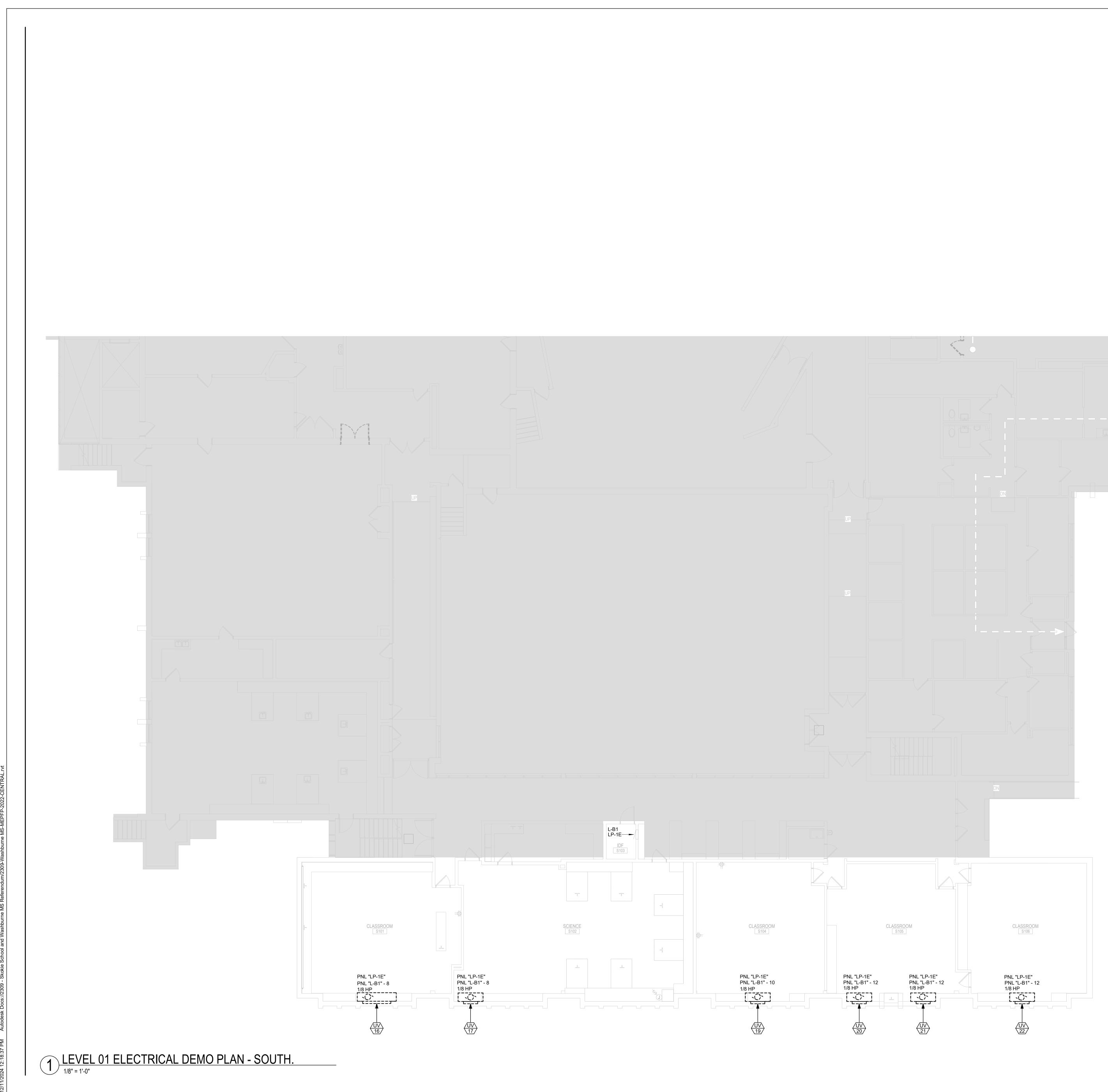




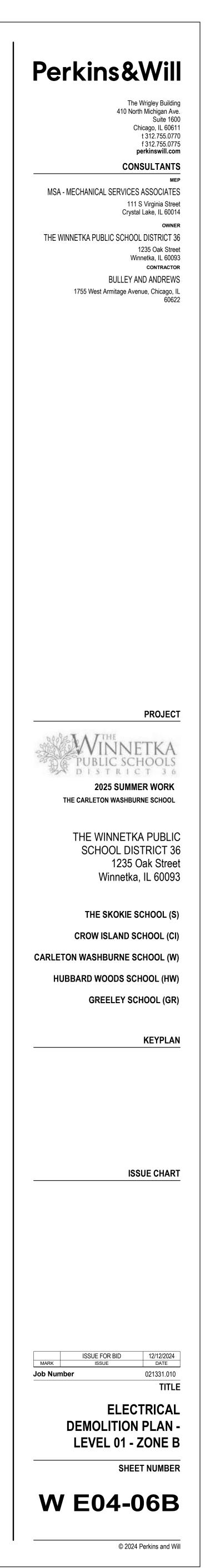
GENERAL DEMOLITION PLAN NOTES: A. DISCONNECT AND REMOVE POWER FROM EXISTING EQUIPMENT TO BE DEMOLISHED BY OTHERS. REMOVE ASSOCIATED DISCONNECT

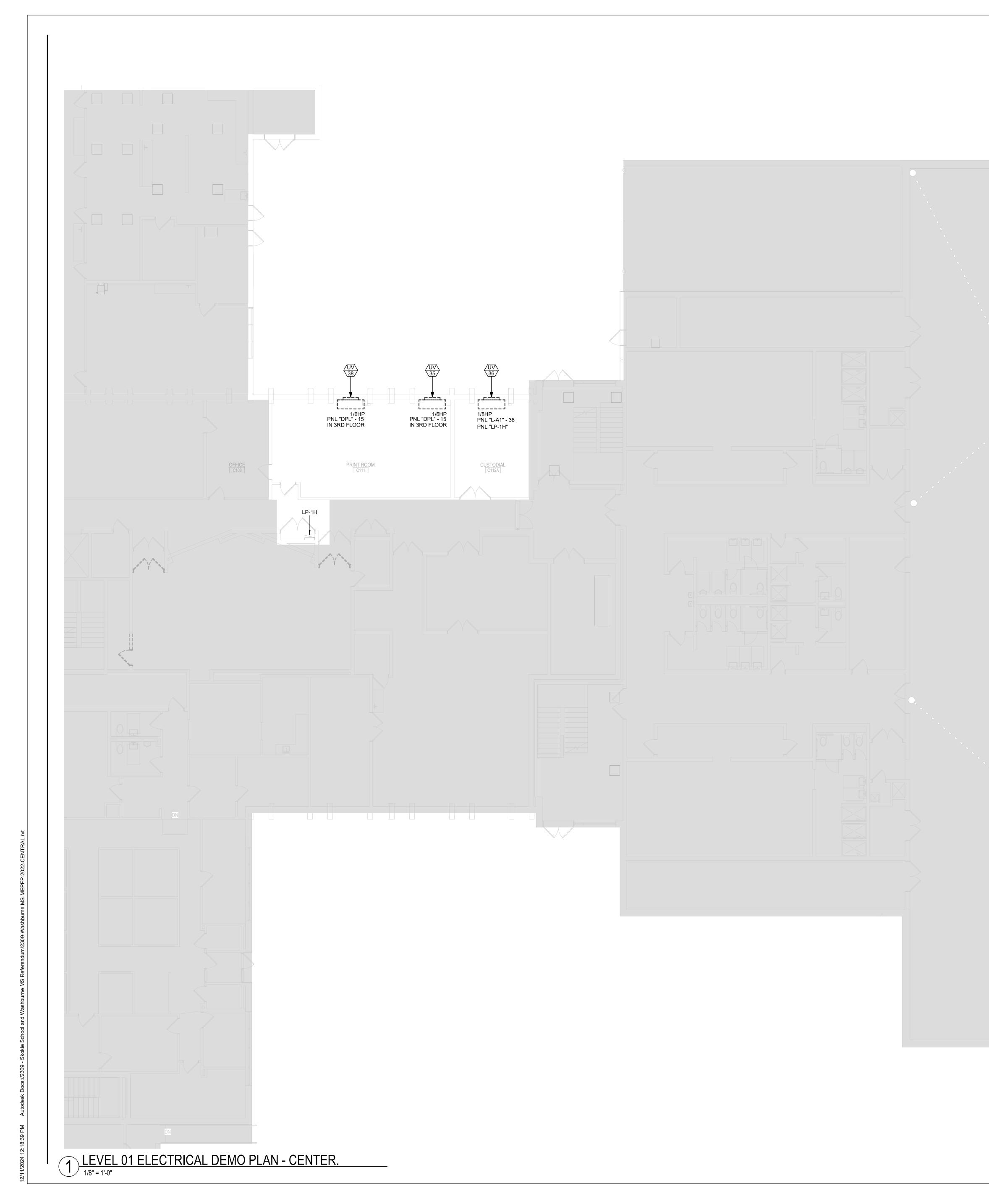
- SWITCH. EXISTING BRANCH CIRCUIT, CONDUIT AND WIRE SHALL REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT IN SAME PLACE. REWORK EXISTING CIRCUIT AS REQUIRED TO MEET NEW UV REQUIREMENT. REFER TO NEW PLANS FOR MORE INFORMATION. DISCONNECT AND REMOVE OUTLETS LOCATED INSIDE THE EXISTING В. UNIT VENTILATOR POWERING CONDENSATE PUMP. EXISTING BRANCH CIRCUIT TO REMAIN TO POWER NEW PUMP.
- CIRCUITS SHOWN FOR REFERENCE ONLY FROM RECORD DRAWINGS. EC TO VERIFY FINAL CIRCUITING AT JOB-SITE. C.





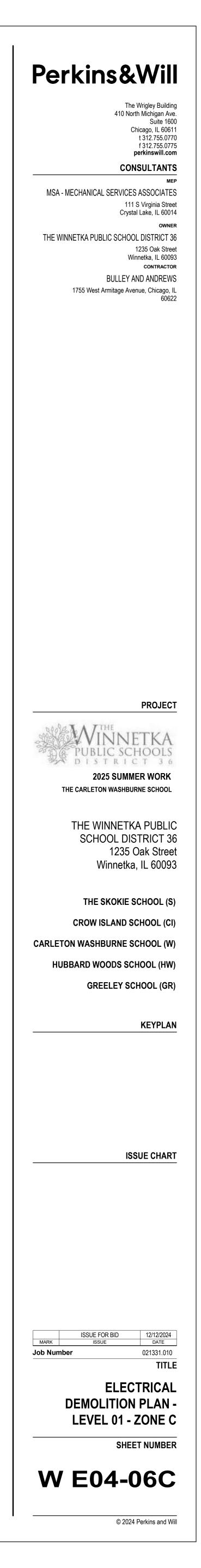
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- B. DISCONNECT AND REMOVE OUTLETS LOCATED INSIDE THE EXISTING UNIT VENTILATOR POWERING CONDENSATE PUMP. EXISTING BRANCH CIRCUIT TO REMAIN TO POWER NEW PUMP.
- C. CIRCUITS SHOWN FOR REFERENCE ONLY FROM RECORD DRAWINGS. EC TO VERIFY FINAL CIRCUITING AT JOB-SITE.





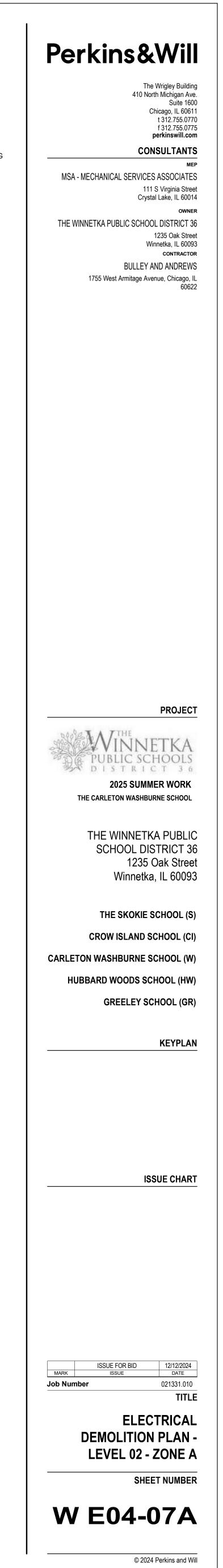
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- B. DISCONNECT AND REMOVE OUTLETS LOCATED INSIDE THE EXISTING UNIT VENTILATOR POWERING CONDENSATE PUMP. EXISTING BRANCH CIRCUIT TO REMAIN TO POWER NEW PUMP.

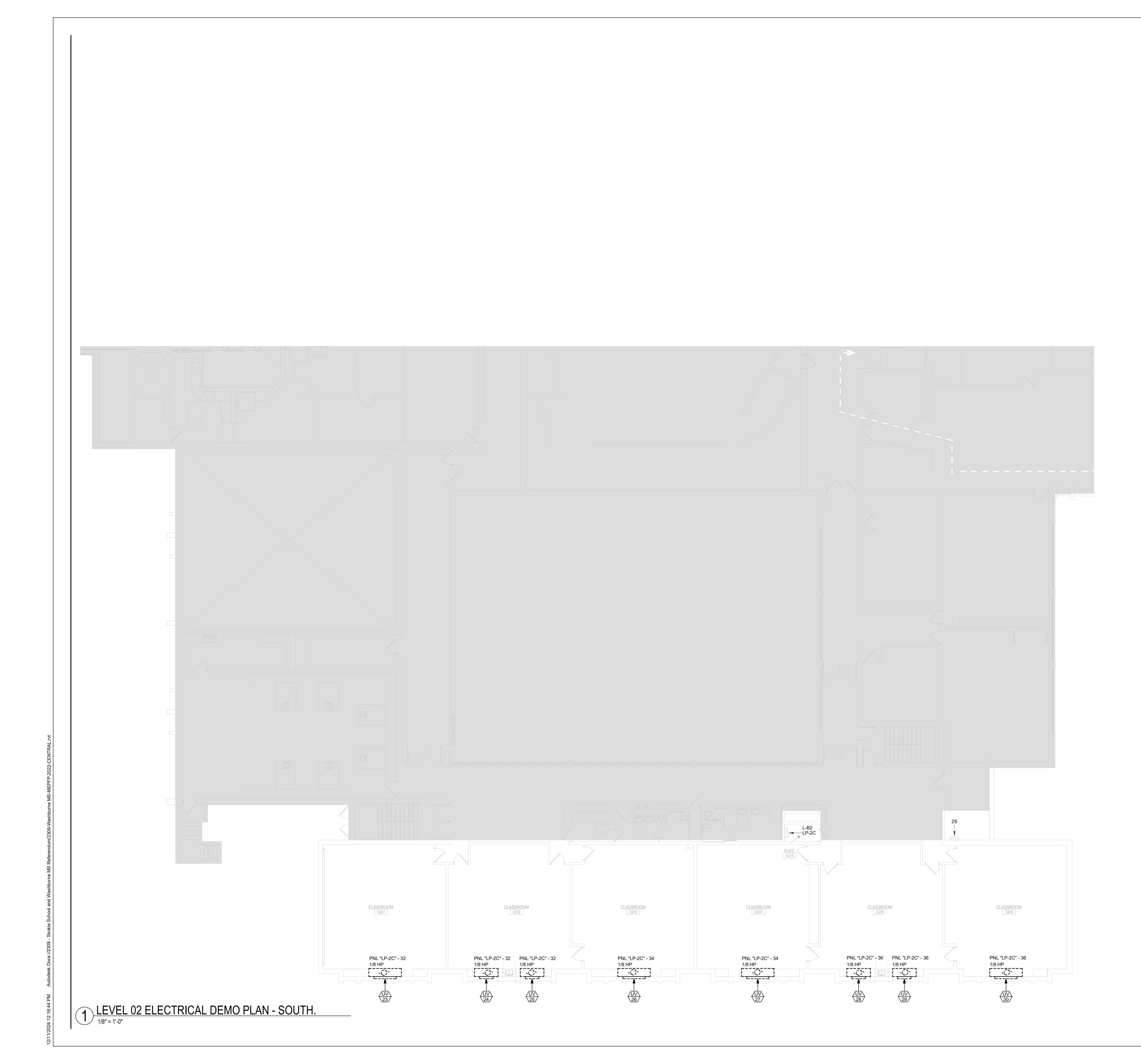
- C. CIRCUITS SHOWN FOR REFERENCE ONLY FROM RECORD DRAWINGS. EC TO VERIFY FINAL CIRCUITING AT JOB-SITE.



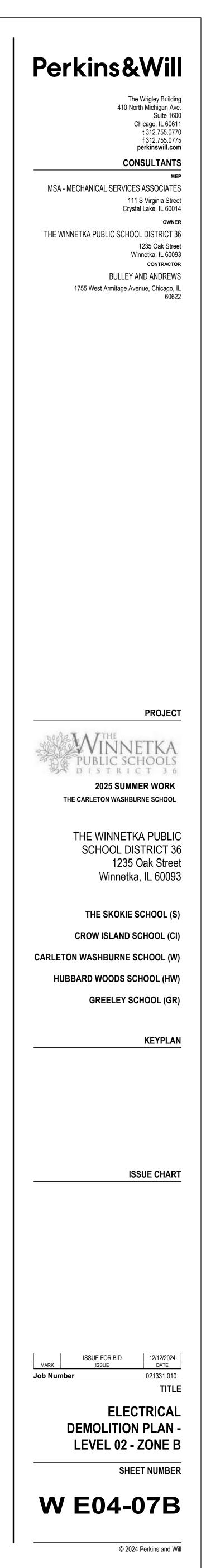


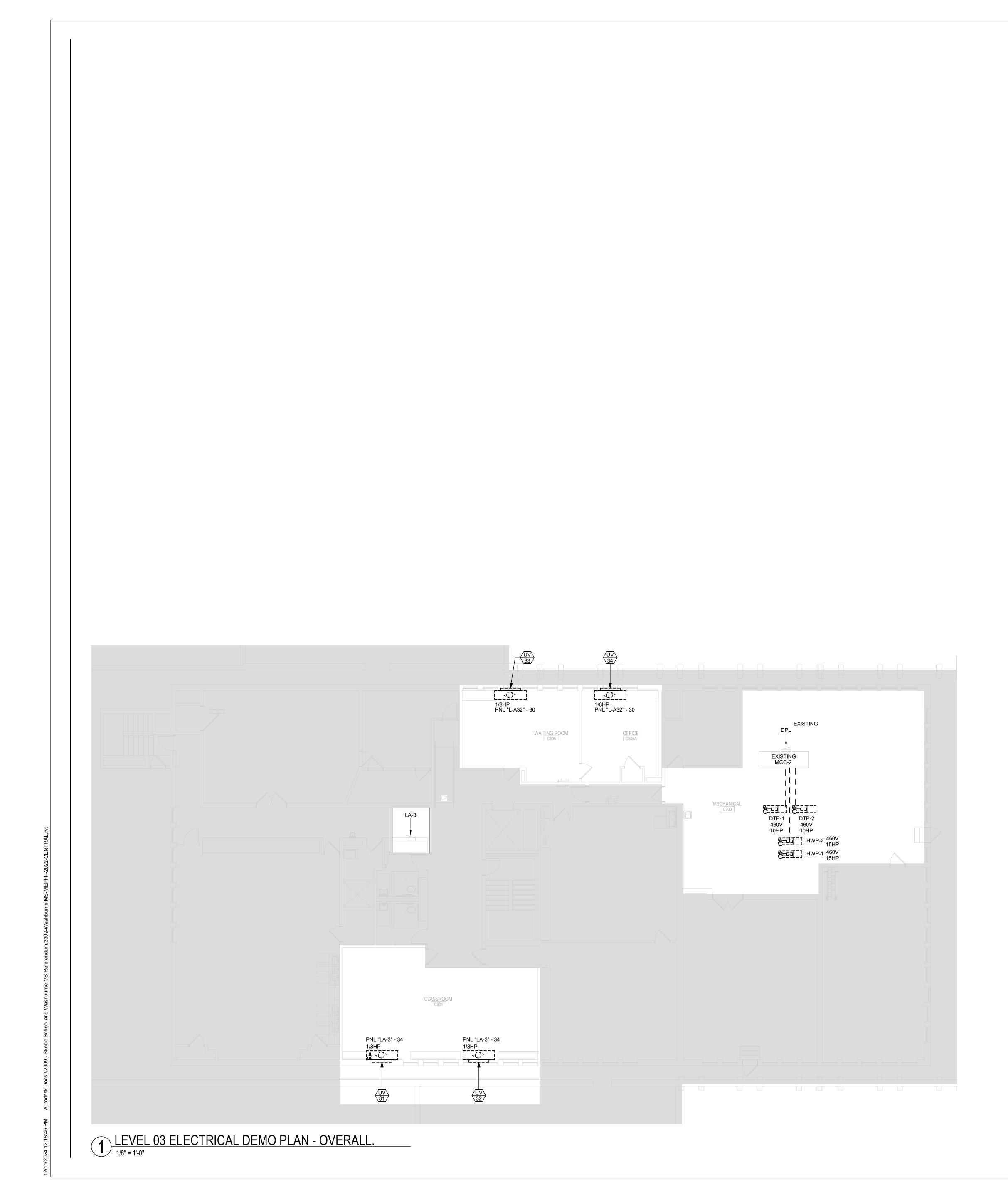
- A. DISCONNECT AND REMOVE POWER FROM EXISTING EQUIPMENT TO BE DEMOLISHED BY OTHERS. REMOVE ASSOCIATED DISCONNECT SWITCH. EXISTING BRANCH CIRCUIT, CONDUIT AND WIRE SHALL REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT IN SAME PLACE. REWORK EXISTING CIRCUIT AS REQUIRED TO MEET NEW UV REQUIREMENT. REFER TO NEW PLANS FOR MORE INFORMATION.
- B. DISCONNECT AND REMOVE OUTLETS LOCATED INSIDE THE EXISTING UNIT VENTILATOR POWERING CONDENSATE PUMP. EXISTING BRANCH CIRCUIT TO REMAIN TO POWER NEW PUMP.
- C. CIRCUITS SHOWN FOR REFERENCE ONLY FROM RECORD DRAWINGS. EC TO VERIFY FINAL CIRCUITING AT JOB-SITE.



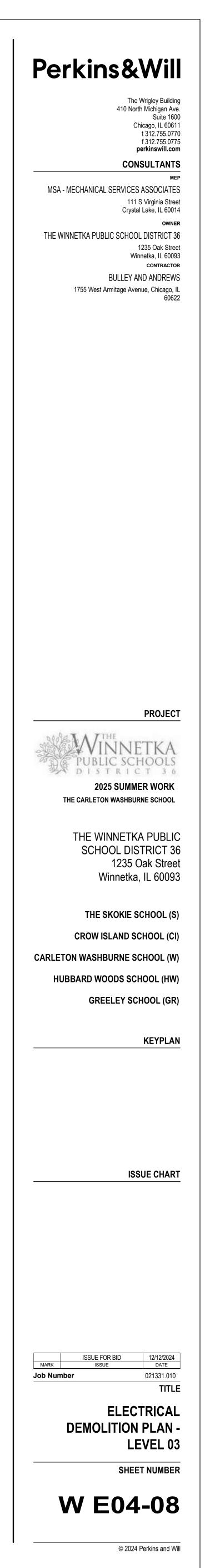


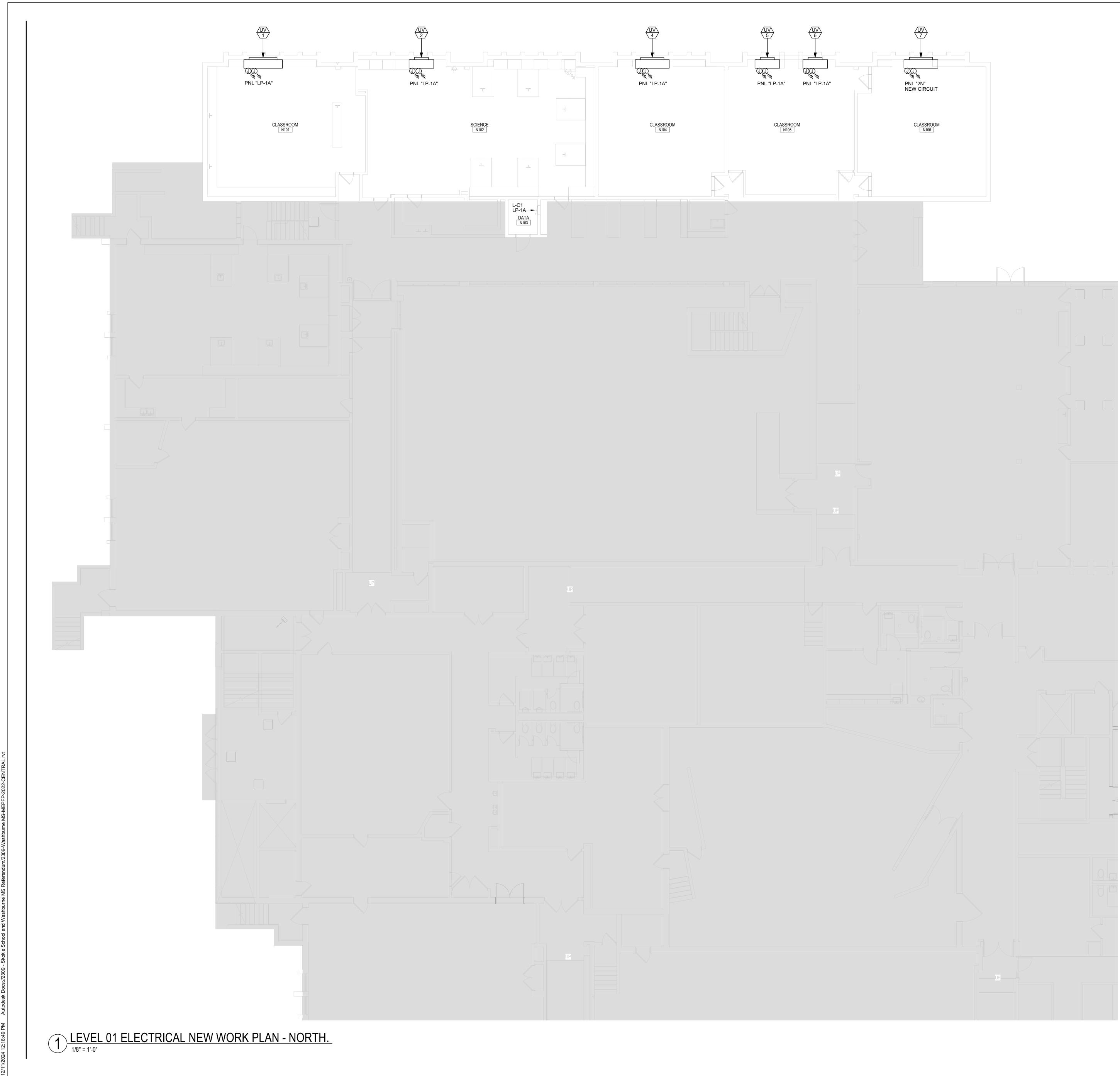
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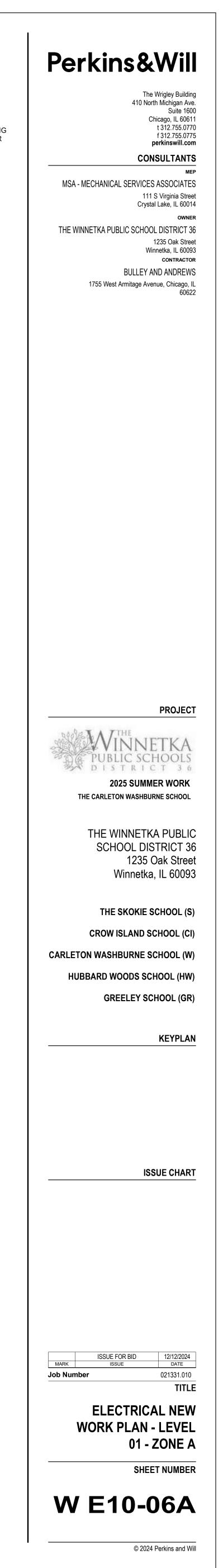


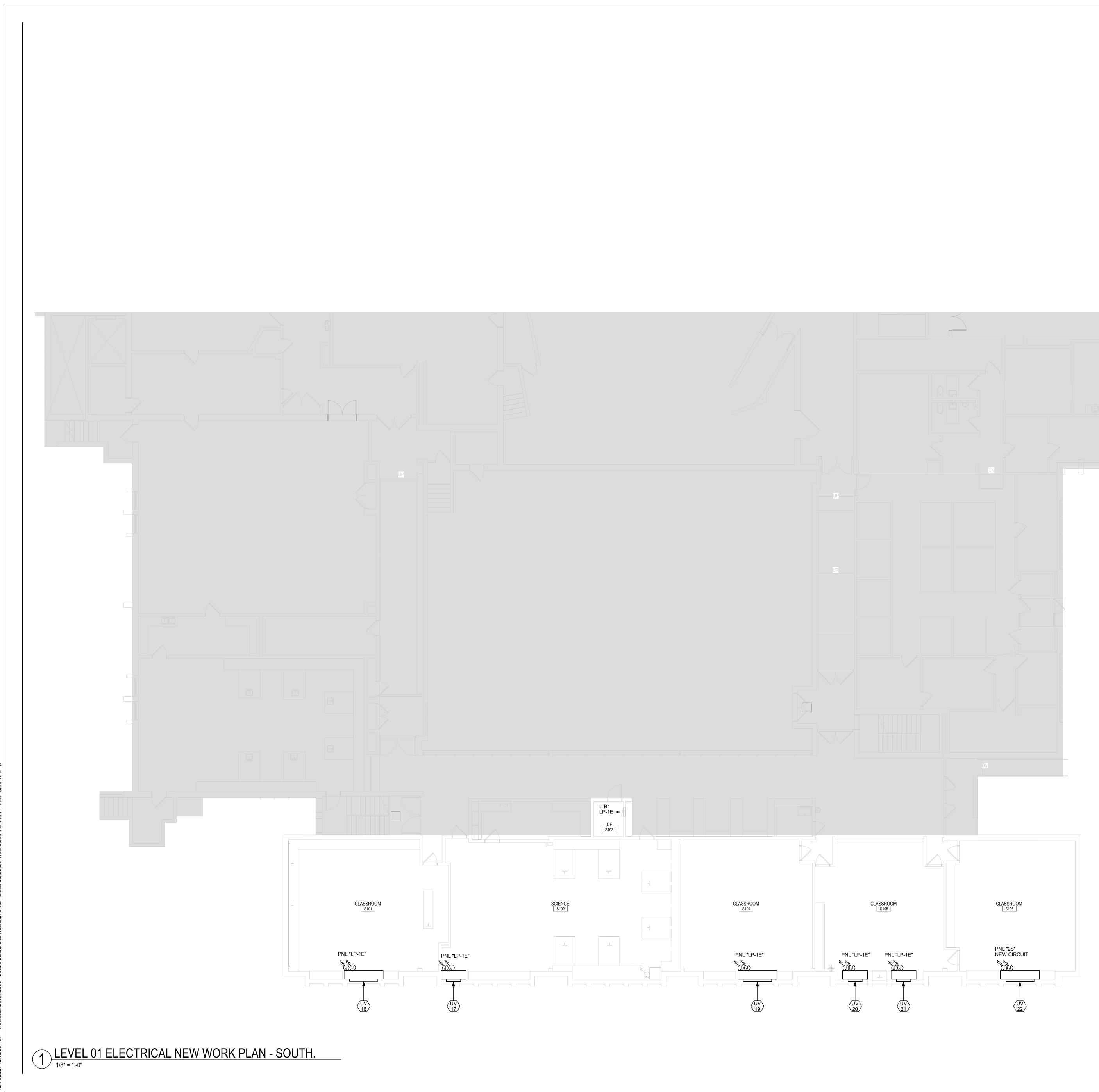
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- B. DISCONNECT AND REMOVE OUTLETS LOCATED INSIDE THE EXISTING UNIT VENTILATOR POWERING CONDENSATE PUMP. EXISTING BRANCH CIRCUIT TO REMAIN TO POWER NEW PUMP.
- C. CIRCUITS SHOWN FOR REFERENCE ONLY FROM RECORD DRAWINGS. EC TO VERIFY FINAL CIRCUITING AT JOB-SITE.
- D. DISCONNECT AND REMOVE POWER, STARTER AND DISCONNECT SWITCHES FOR EXISTING HOT WATER (HWP) AND DUAL TEMPERATURE PUMPS (DTP) COMPLETELY FROM THE SOURCE. EXISTING CONDUIT SHALL REMAIN. REMOVE WIRE BACK TO THE SOURCE. REPLACE EXISTING MCC BUCKETS WITH ONLY FUSED SWITCH. REFER TO NEW WORK PLAN FOR MORE INFROAMTION. MCC MANUFACTURED BY SIEMENS.





- A. FURNISH AND INSTALL NEW 20A-1P TOGGLE DISCONNECT SWITCH FOR ALL NEW UV (UNIT VENTILATOR). EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT VIA NEW DISCONNECT SWITCH. REPLACE EXISTING BRANCH CIRCUIT BREAKER IF EXISTING BREAKER IS RATED LESS THAN 20A. ONLY (2) UNIT VENTILATOR SHALL BE ON THE SAME CIRCUIT. WHERE EXISTING CIRCUIT EXCEED (2) UV; MODIFY EXISTING CIRCUIT TO ONLY POWER (2) UV DEMO AND EXTEND CONDUITS AND WIRE AS REQUIRED. FÚRNISH AND INSTALL NEW BREAKER, BRANCH CIRCUIT CONDUIT AND WIRE FROM PANELBOARD (2N) AS SHOWN. NEW CIRCUIT BREAKER SHALL BE 20A-1P AND SHALL MATCH EXISTING PANELBOARD MAKE, MODEL AND AIC RATING. BRANCH CIRCUIT SHALL BE (2)#12, (1)#12G IN 1/2" CONDUIT.
- ALL UV LOCATED IN LEVEL-1 ARE PROVIDED WITH 1/50HP, 120V
   PUMPS. EC TO FURNISH AND INSTALL NEW 20A TOGGLE DISCONNECT SWITCH AND EXTEND EXISTING CIRCUIT TO POWER NEW PUMPS. COORDINATE MOUNTING AND FINAL REQUIREMENT WITH THE MECHANICAL CONTRACTOR.
- C. PANELBOARD (2N) LOCATED ON THE SECOND FLOOR LEVEL.

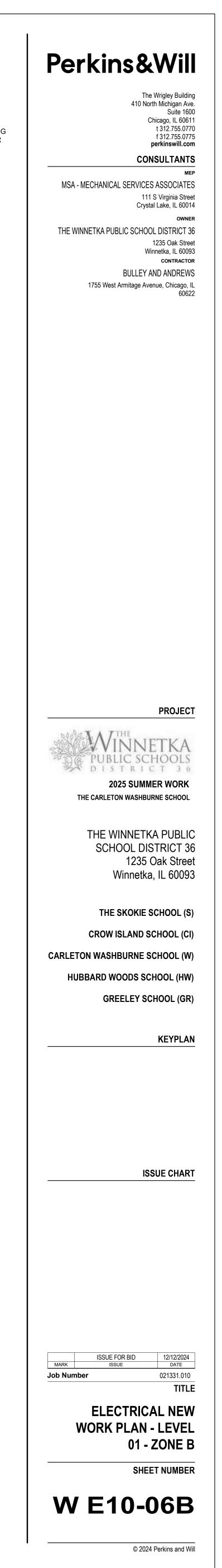


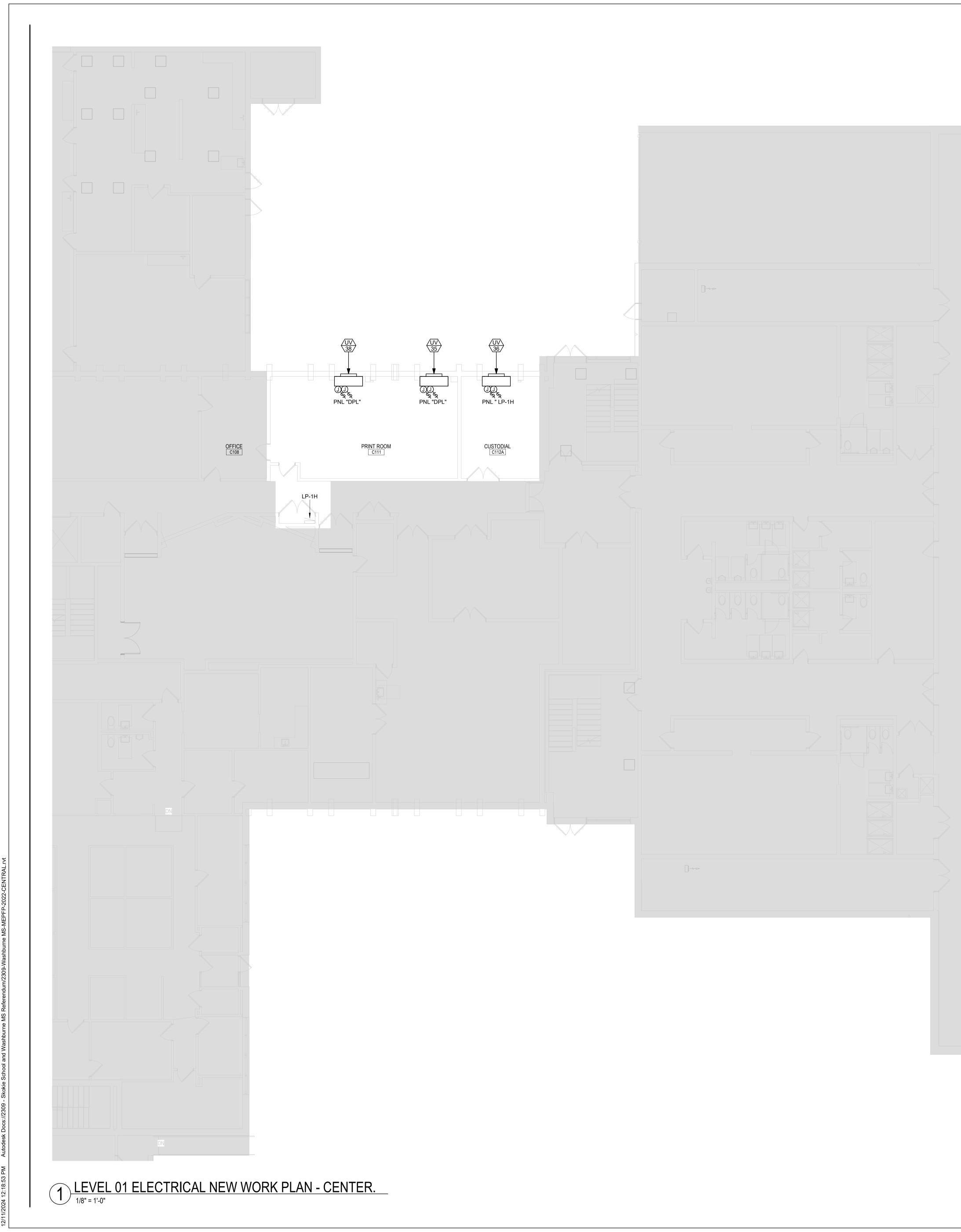


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GENERAL NEW WORK PLAN NOTES:

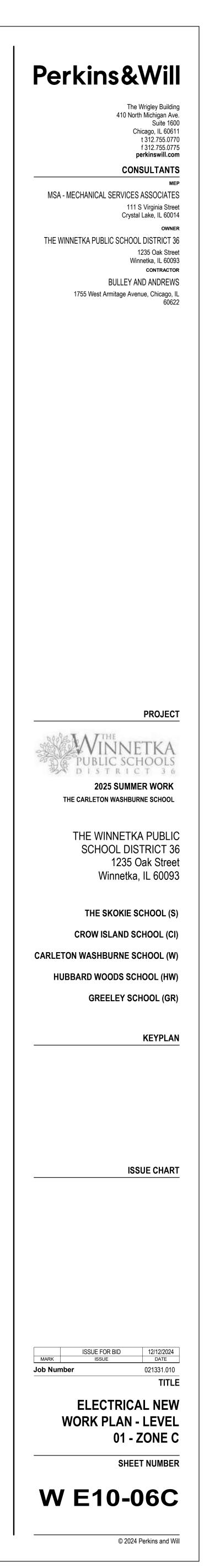
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- B. ALL UV LOCATED IN LEVEL-1 ARE PROVIDED WITH 1/50HP, 120V PUMPS. EC TO FURNISH AND INSTALL NEW 20A TOGGLE DISCONNECT SWITCH AND EXTEND EXISTING CIRCUIT TO POWER NEW PUMPS. COORDINATE MOUNTING AND FINAL REQUIREMENT WITH THE MECHANICAL CONTRACTOR.
- C. PANELBOARD (2S) LOCATED ON THE SECOND FLOOR LEVEL.

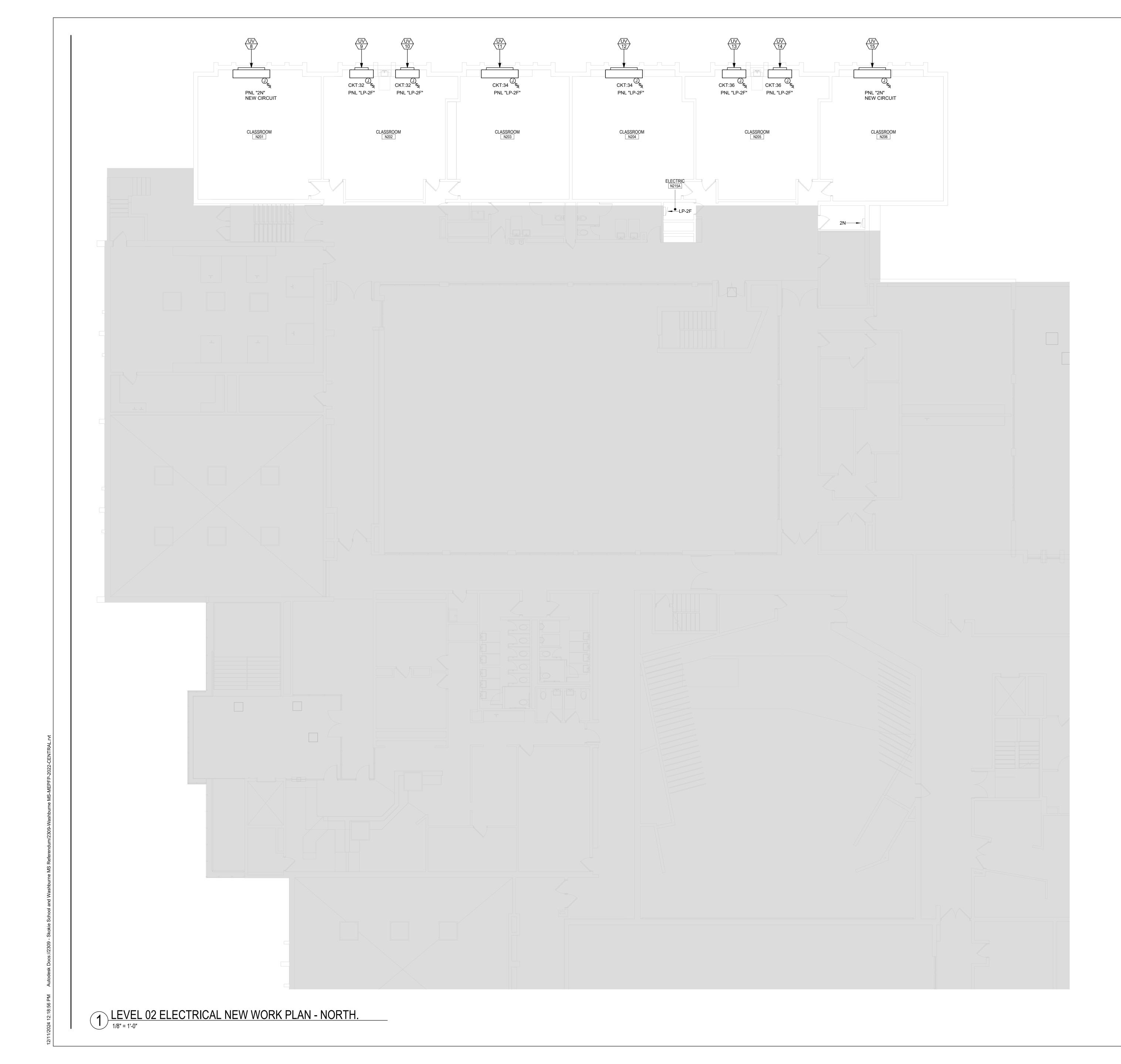




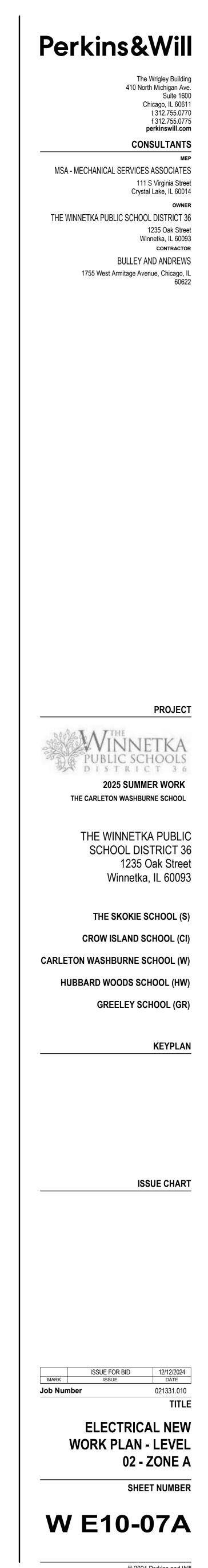
A. FURNISH AND INSTALL NEW 20A-1P TOGGLE DISCONNECT SWITCH FOR ALL NEW UV. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT VIA NEW DISCONNECT SWITCH. REPLACE EXISTING BRANCH CIRCUIT BREAKER IN PANELBOARD DPL FROM 15A TO 20A BREAKER. NEW BREAKER MAKE, MODEL AND AIC RATING SHALL MATCH EXISTING. PANELBOARD LOCATED ON THE 3RD FLOOR. ALL UV LOCATED IN LEVEL-1 ARE PROVIDED WITH 1/50HP, 120V PUMPS. EC TO FURNISH AND INSTALL NEW 20A TOGGLE DISCONNECT SWITCH AND EXTEND EXISTING CIRCUIT TO POWER NEW PUMPS. COORDINATE MOUNTING AND

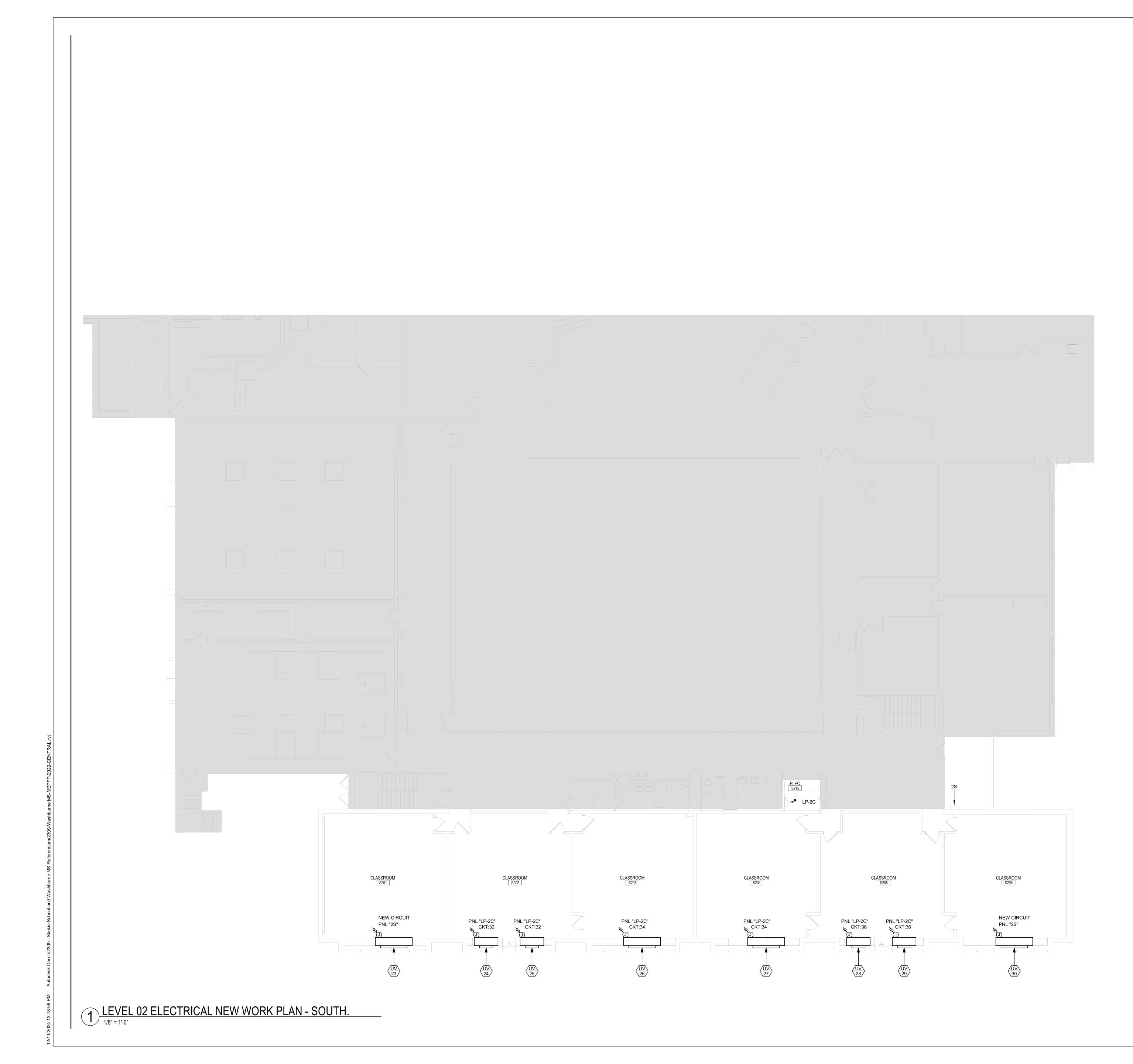
FINAL REQUIREMENT WITH THE MECHANICAL CONTRACTOR.





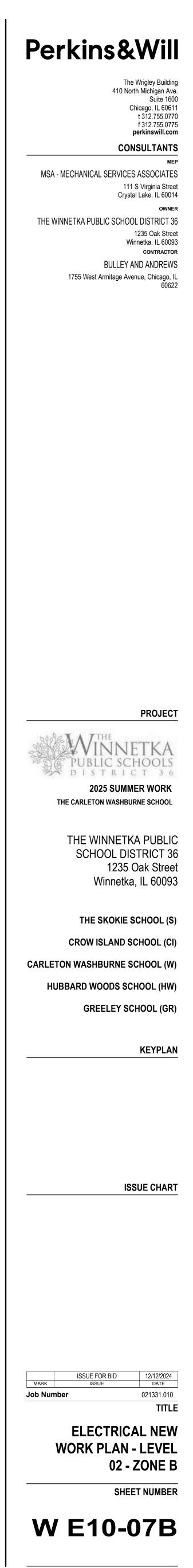
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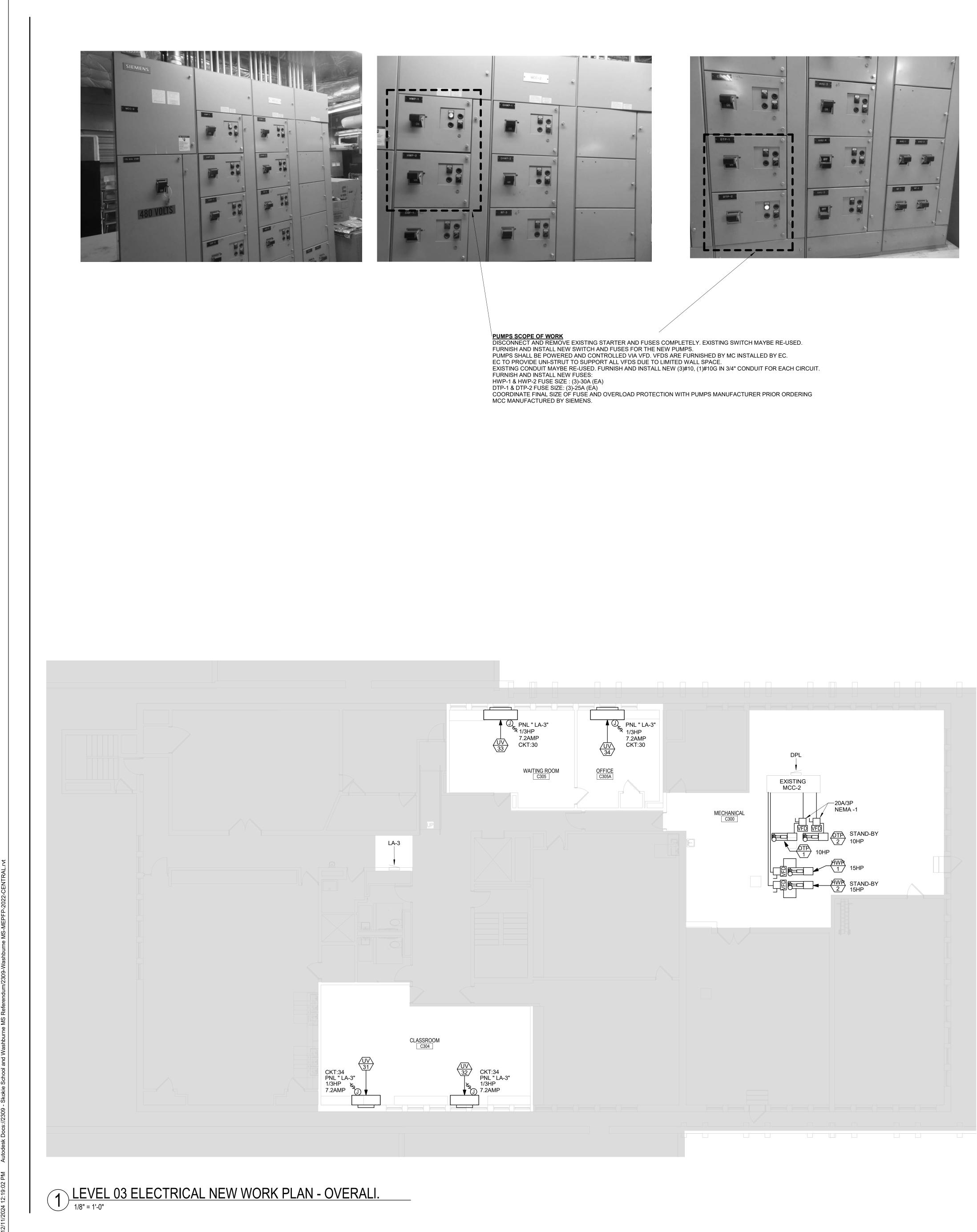




CONDUIT.

A. FURNISH AND INSTALL NEW 20A-1P TOGGLE DISCONNECT SWITCH FOR ALL NEW UV. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT VIA NEW DISCONNECT SWITCH. REPLACE EXISTING BRANCH CIRCUIT BREAKER IF EXISTING BREAKER IS RATED LESS THAN 20A. ONLY (2) UNIT VENTILATOR SHALL BE ON THE SAME CIRCUIT. WHERE EXISTING CIRCUIT EXCEED (2) UV; MODIFY EXISTING CIRCUIT TO ONLY POWER (2) UV DEMO AND EXTEND CONDUITS AND WIRE AS REQUIRED. FURNISH AND INSTALL NEW BREAKER, BRANCH CIRCUIT CONDUIT AND WIRE FROM PANELBOARD (2S) AS SHOWN. NEW CIRCUIT BREAKER SHALL BE 20A-1P AND SHALL MATCH EXISTING PANELBOARD MAKE,MODEL AND AIC RATING. BRANCH CIRCUIT SHALL BE (2)#12, (1)#12G IN 1/2"







Α.

- FURNISH AND INSTALL NEW 20A-1P TOGGLE DISCONNECT SWITCH FOR ALL NEW UV. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT VIA NEW DISCONNECT SWITCH. REPLACE EXISTING BRANCH CIRCUIT BREAKER IF EXISTING BREAKER IS RATED LESS THAN 20A. ONLY (2) UNIT VENTILATOR SHALL BE ON THE SAME CIRCUIT. FURNISH AND INSTALL NEW BREAKER, BRANCH CIRCUIT CONDUIT AND WIRE FROM NOTED PANELBOARD. NEW CIRCUIT BREAKER SHALL BE 20A-1P AND SHALL MATCH EXISTING PANELBOARD MAKE, MODEL AND AIC RATING. BRANCH CIRCUIT SHALL BE (2)#12, (1)#12G IN 1/2" CONDUIT.
- FURNISH AND INSTALL NEW VFD WITH INTEGRAL DISCONNECT В. SWITCH FOR ALL NEW PUMPS. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED TO SERVE NEW EQUIPMENT VIA NEW DISCONNECT SWITCH. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER. REFER TO PUMPS SCOPE OF WORK NOTE ON THIS SHEET FOR MORE INFORMATION.

