WARREN WOODS PUBLIC SCHOOLS TITAN EXPRESS SERVERY HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT

ISSUED FOR: BIDS DATE: MARCH 11, 2025 PROJECT NO.: 242030

FOOD SERVICE CONSULTANT:

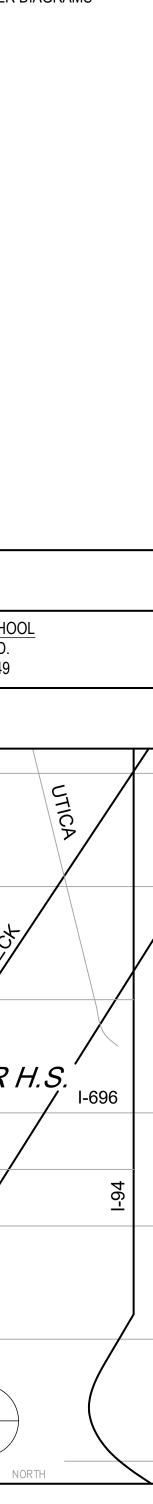
FOOD SERVICE DESIGN, L.L.C.

ARCHITECT: WAKELY ASSOCIATES, INC./ ARCHITECTS 30500 VAN DYKE AVE, SUITE 209, WARREN, MI 48093, 586.573.4100

9201 FUNSTON ST., WHITE LAKE, MI 48386, 248.410.3459

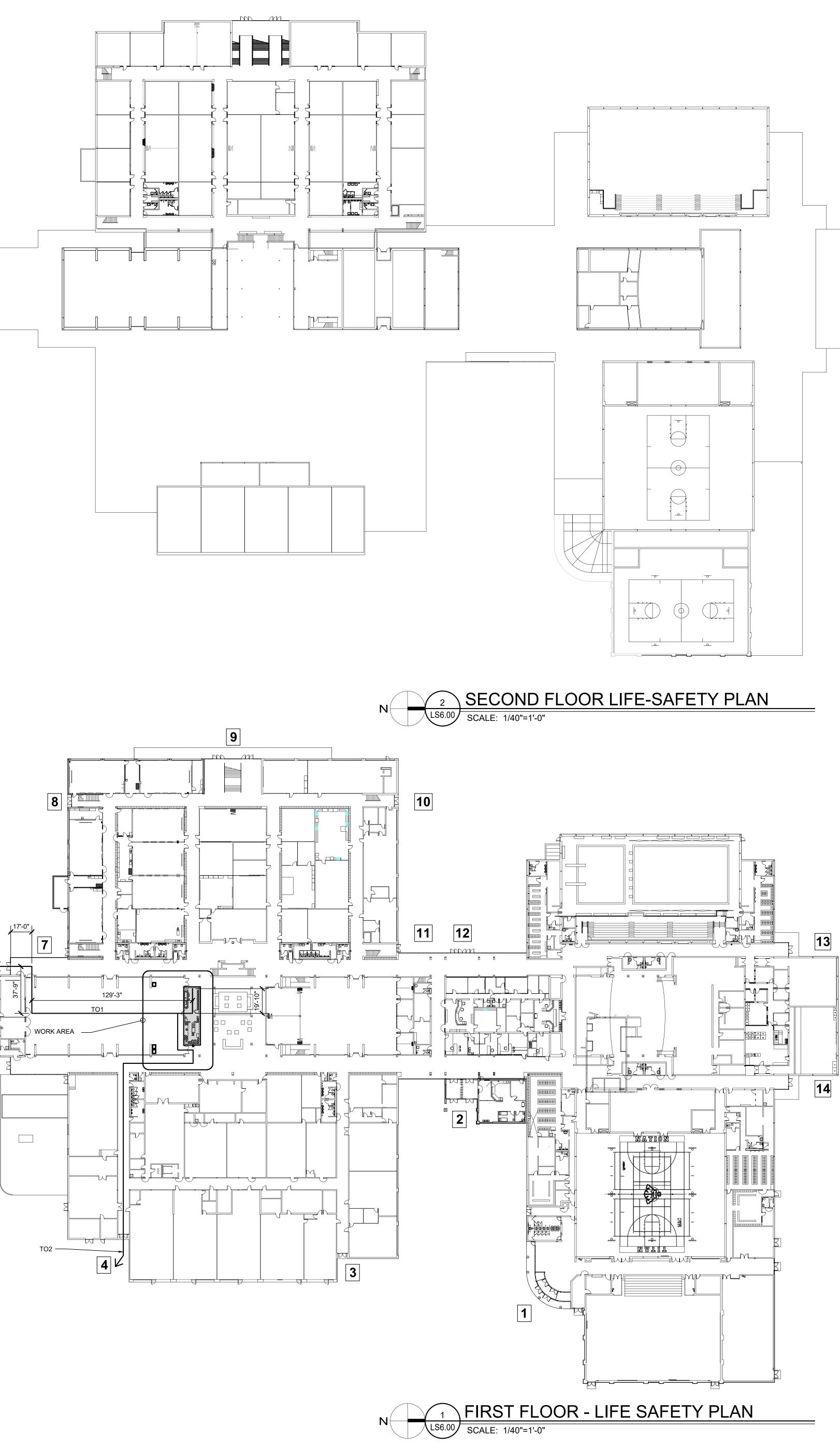
MECHANICAL/ELECTRICAL ENGINEERS UNIFIED BUILDING SYSTEMS ENGINEERING, LLC 75 N. MAIN STREET, SUITE 221, MT. CLEMENS, MI 48043, 586-500-7055

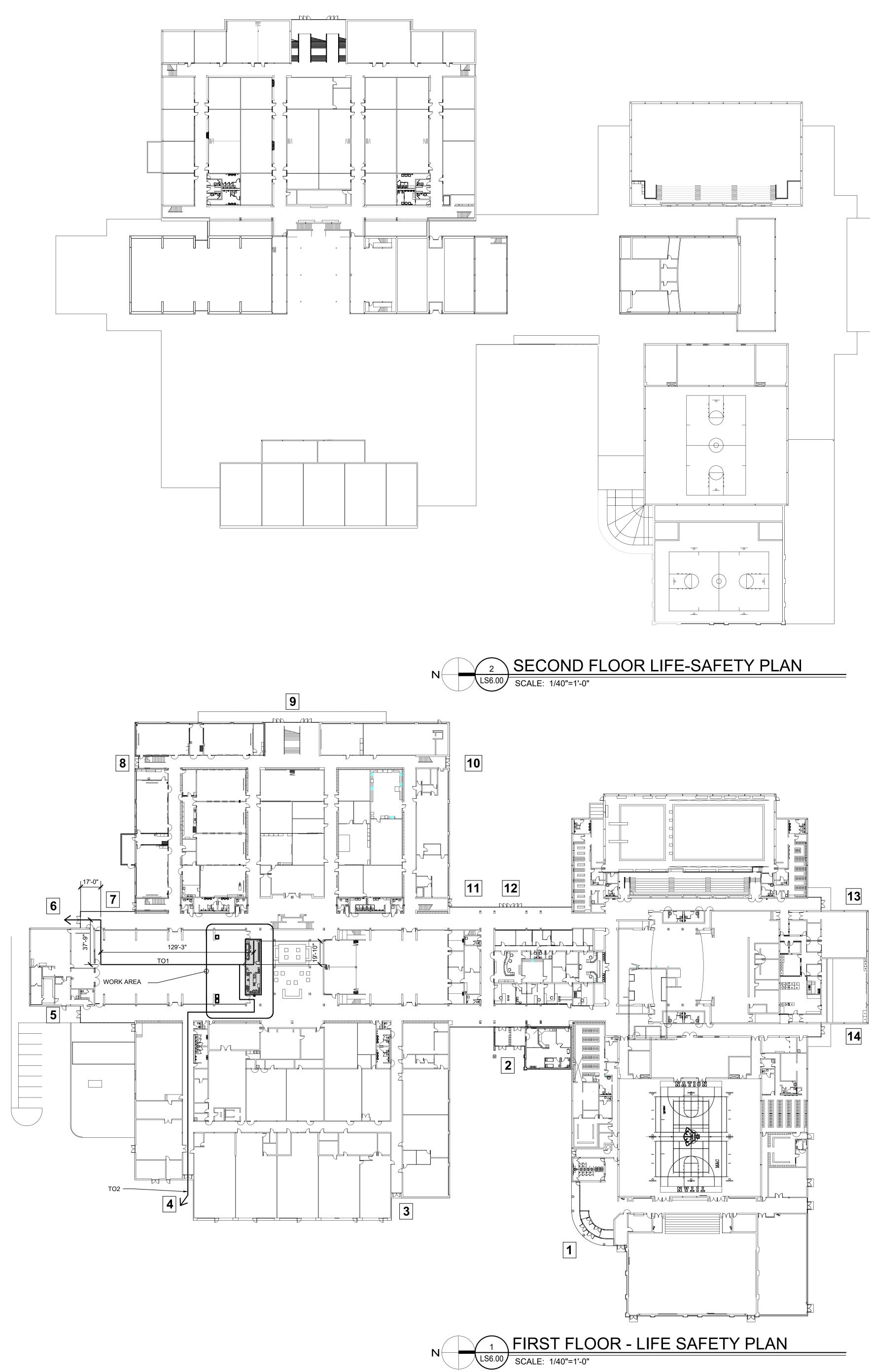
dex o		Index of Dr	
TOWER	R HIGH SCHOOL	HAWTHORN	
	TURAL DRAWINGS:	ARCHITECTURAL DF	RAWINGS:
G1.00		LS7.00 LIFE S	SAFETY PLAN
LS6.00	LIFE SAFETY PLAN		THORN COMPOSITE PLAN
A6.01 A6.02	COMPOSITE FLOOR PLANS ENLARGED PLANS, SECTIONS, AND DETAILS		THORN FREEZER PLANS AND DETAILS
46.03	ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS		IANICAL GENERAL INFORMATION
M0.00T	CAL DRAWINGS: MECHANICAL GENERAL INFORMATION	P4.01H ENLA	HANICAL COMPOSITE PLAN RGED PLUMBING DEMOLITION & NEW WORK FIRST FLO
V1.00T P4.00T	MECHANICAL COMPOSITE PLAN ENLARGED PLUMBING DEMOLITION & NEW WORK UNDERGROUND	PLANS	
P4.01T	PLANS ENLARGED PLUMBING DEMOLITION & NEW WORK FIRST FLOOR	ELECTRICAL DRAWI	INGS: TRICAL GENERAL INFORMATION & LIGHTING SCHEDUL
M4.01T	PLANS ENLARGED MECHANICAL DEMOLITION & NEW WORK FIRST FLOOR		TRICAL COMPOSITE PLAN RGED ELECTRICAL POWER DEMOLITION & NEW WORK
И5.00T	PLANS MECHANICAL DETAILS & SCHEDULES	PLANS	
	AL DRAWINGS:	FOOD SERVICE DRA	
ELECTRIC <i>F</i> E0.00T E1.00T	ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE ELECTRICAL COMPOSITE PLAN		THORN WALK-IN PLAN
1.001 P4.01T	ENLARGED ELECTRICAL POWER DEMOLITION & NEW WORK FLOOR		
EL4.01T	PLANS ENLARGED ELECTRICAL LIGHTING DEMOLITION & NEW WORK FLOOR		
E6.00T	PLANS ELECTRICAL PANEL SCHEDULES & DETAILS		
7.00T	ELECTRICAL ONE-LINE DIAGRAMS		
OOD SER	<u>RVICE DRAWINGS - TO BE UPDATED:</u> FOODSERVICE EQUIPMENT PLAN		
S-2 S-3	FOODSERVICE PLUMBING PLAN FOODSERVICE ELECTRICAL PLAN		
		Building Ad	dresses
		Building Ad	
		HAWTHORN 12900 FRAZHO RD.	TOWER HIGH SCHOOL 27900 BUNERT RD.
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 Location M 14 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 Location M 14 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 14 MILE 13 MILE 12 MILE MARTIN	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 12 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE MARTIN 11 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE 12 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE 12 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049
		HAWTHORN 12900 FRAZHO RD. WARREN, MI 48049 LOCATION M 14 MILE 14 MILE 13 MILE 13 MILE 12 MILE 12 MILE 12 MILE	TOWER HIGH SCHOOL 27900 BUNERT RD. WARREN, MI 48049











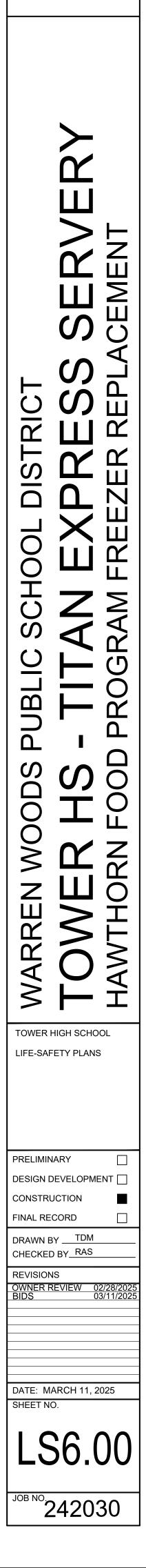
PROJECT:	WARREN WOODS PUBLIC SCHOOLS TOWER HIGH SCHOOL TITAN EXPRES SERVERY
ADDRESS:	27900 BURNET ROAD, WARREN MI 48808
PROPOSED USE:	RENOVATION OF AN EXISTING SERVERY INSIDE THE HIC SCHOOL CAFETERIA
REFERENCE CODES:	
RENOVATION: BUILDING:	MICHIGAN REHABILITATION CODE, 2015 EDITION MICHIGAN BUILDING CODE, 2015 EDITION
MECHANICAL: PLUMBING:	MICHIGAN BOILDING CODE, 2013 EDITION MICHIGAN MECHANICAL CODE, 2021 EDITION MICHIGAN PLUMBING CODE, 2021 EDITION
ELECTRICAL:	MICHIGAN FLOMBING CODE, 2021 EDITION MICHIGAN ELECTRICAL CODE, (2023 NEC WITH PART 8 TECHNICAL AMENDMENTS)
ENERGY:	MICHIGAN ENERGY CODE, 2015 EDITION
BUILDING DATA USE GROUP:	E EDUCATIONAL
SPRINKLED:	REQUIRED; PROVIDED
CONSTRUCTION TYPE:	TYPE 2B
BUILDING HEIGHT PERMITTED (TABLE 504.4): ACTUAL:	3 STORIES (504.4), 75' (WITH SPRINKLER SYSTEM - 504.2) 2 STORY 29' EDUCATIONAL (E) 1 BASEMENT MECHANICAL ROOM FOR POOL
MEZZANINE HIGH RISE	NONE NONE
GROSS BUILDING AREA:	
GRADE LEVEL: BASEMENT	216,037 S.F. 12,556
2ND LEVEL: TOTAL AREA:	61,617 290,210 S.F.
WORK AREA (SERVERY)	
GRADE LEVEL: 2ND LEVEL:	703 S.F. 0 S.F. 703 S F
	703 S.F.
TOTAL AREA (EDUCATIONAL) GRADE LEVEL: 2ND LEVEL: TOTAL:	15,214 S.F. 5,271 S.F 290,210 S.F.
LEVEL 2 ALTERATION UNDER 2015 MBC (ALTERING	G LAYOUT, DOORS, M/E/P)
PARTY/FIREWALLS: EXTERIOR BEARING WALLS (FIRE SEPERATION DISTANCE > 30 FEET):	
NORTH: EAST	0 0
WEST SOUTH	0 0
EXTERIOR NON-BEARING	
(FIRE SEPERATION DISTANCE > 30 FEET)	0
EAST WEST SOUTH	0 0 0 0
INTERIOR WALLS: BEARING	0
NON-BEARING TENANT SEPERATION	0 N/A
FIRE SEPARATION ASSEMBLIES:	
EXIT ENCLOSURES CEILING-FLOORS ASSEMBLY BEAMS	2 0 0
COLUMNS CEILING-ROOF ASSEMBLY	0 0 0
VERTICAL SHAFTS	2
MIXED OCCUPANCY SEPARATION: TENANT SEPARATION EXIT ACCESS CORRIDORS (1020.1)	N/A 0
LIFE-SAFETY SYSTEMS: EMERGENCY LIGHTING & EXIT SIGNS	REQUIRED; PROVIDED
FIRE ALARMS SMOKE DETECTIONS SYSTEMS	REQUIRED; PROVIDED REQUIRED; PROVIDED
PANIC HARDWARE FIRE SUPPRESSION SYSTEM	REQUIRED; PROVIDED REQUIRED; PROVIDED
STANDPIPE SYSTEM OCCUPANT LOAD:	NOT REQUIRED; NOT PROVIDED
BUSINESS = 1 PERSON/200 GROSS SQUARE FEET SPACE	- KITCHEN COMMERCIAL IS CLOSEST TO OCCUPANT LOA
TOTAL AREA:	703 S.F.
703 S.F./200 = 4 PERSONS TOTAL CALCULATED - U	
EXIT REQUIREMENTS (B AND S ARE THE SAME UI DEAD END LIMIT-MAXIMUM CONDITION (1020.4 W/ EXCEPTION #2)	ALLOWED: 50' ACTUAL: 0'
TRAVEL DISTANCE TO EXIT-MAXIMUM CONDITION (TABLE 1017.2)	ALLOWED: 250' ACTUAL: 204' (UNCHANGED)
COMMON PATH OF TRAVEL 1006.3.2 (2) (WITH SPRINKLER SYSTEM)	ALLOWED: 75' ACTUAL: 20' (IN WORK AREA)
NUMBER OF EXITS (PER STORY):	UNCHANGED
REQUIRED (TABLE 1006.2.1) TOTAL OCCUPANT LOAD 120 OCCUPANTS DESIGN LOADS (SEE STRUCTURAL DRAWINGS):	1091 OCCUPANTS REQUIRED (4); ACTUAL (14) UNCHANGED
ROOF LIVE LOAD: WIND:	20 PSF 90 MPH, 23 PSF
FLOOR: SNOW:	100 PSF, 1ST FLOOR CORRIDORS,1000# CONCENTRATED 30 PSF
SEISMIC:	SDS = 0.095 SD1 = 0.072 DESIGN CAT B
LATERAL DESIGN:	
SOIL BEARING CAPACITIES:	ASSUMED NET SOILS BEARING

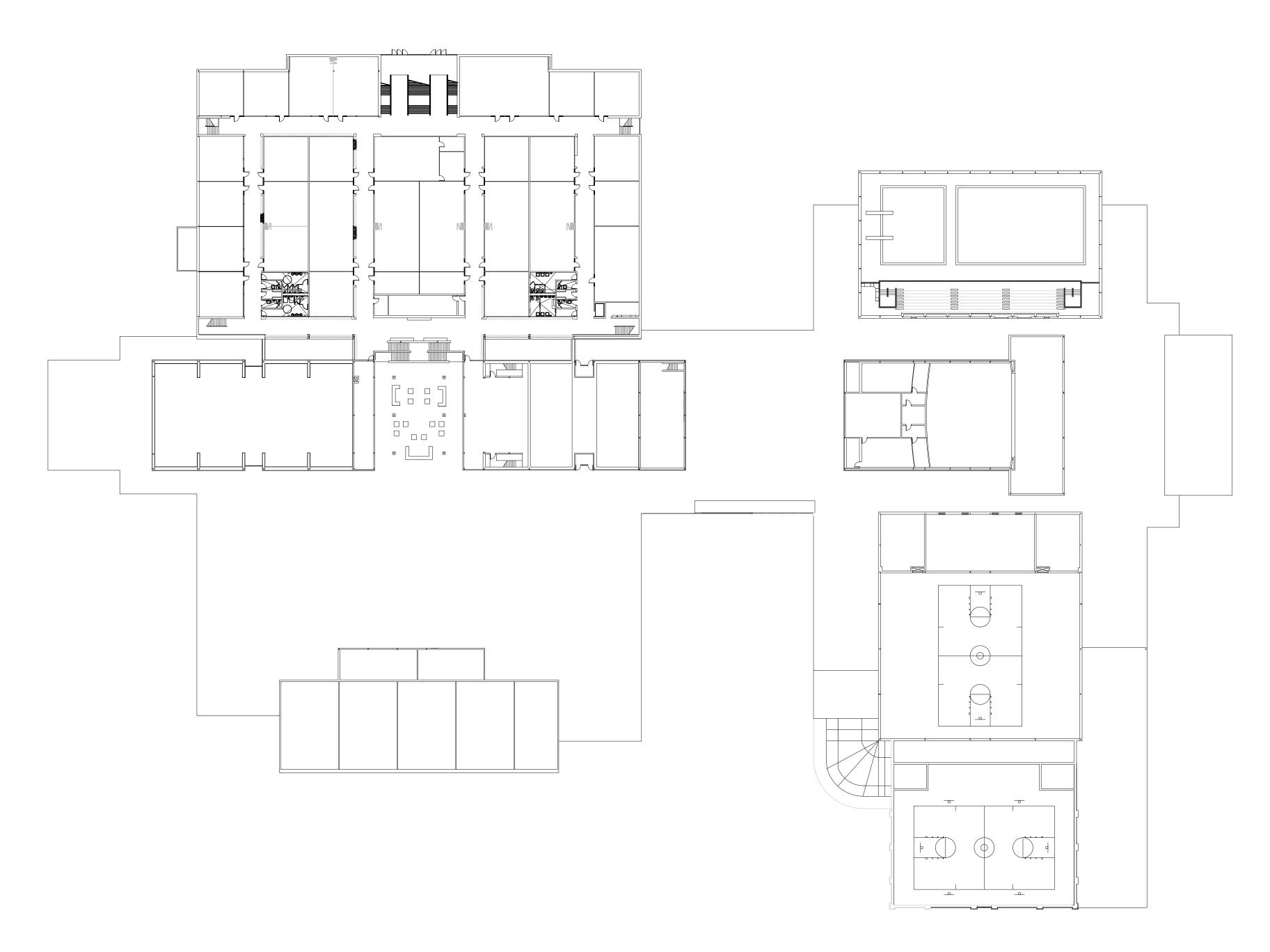
E THE HIGH

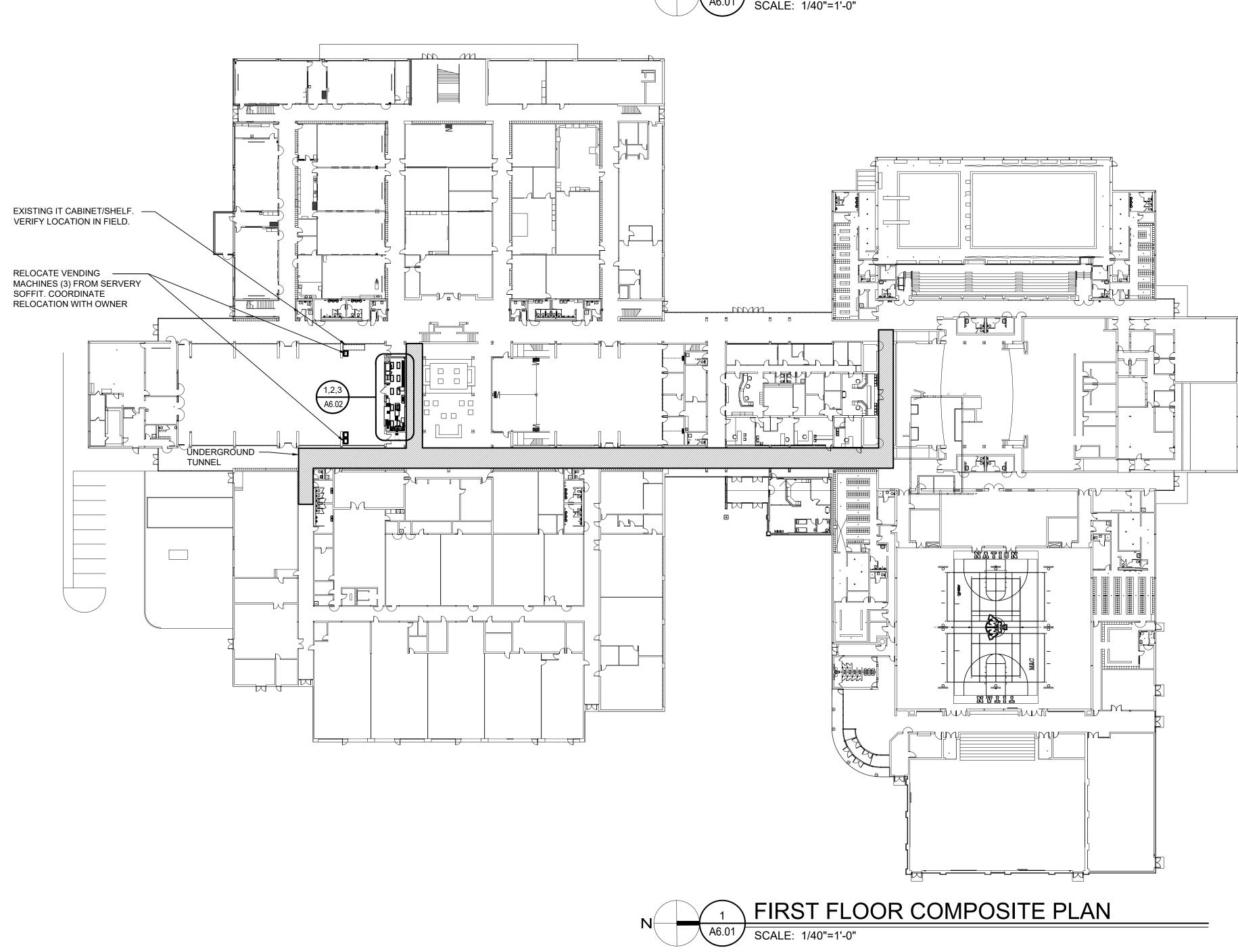


WAKELY ASSOCIATES, INC. ARCHITECTS

30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com







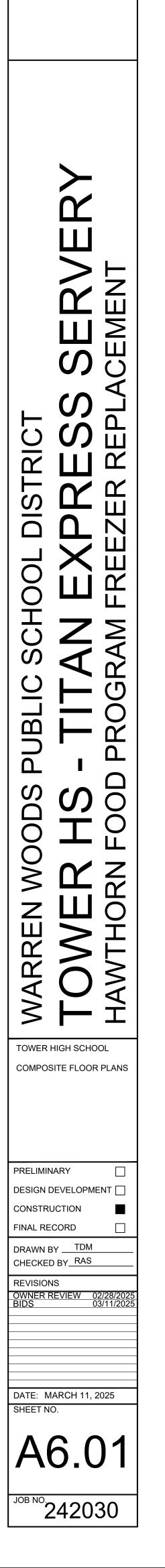
Ν

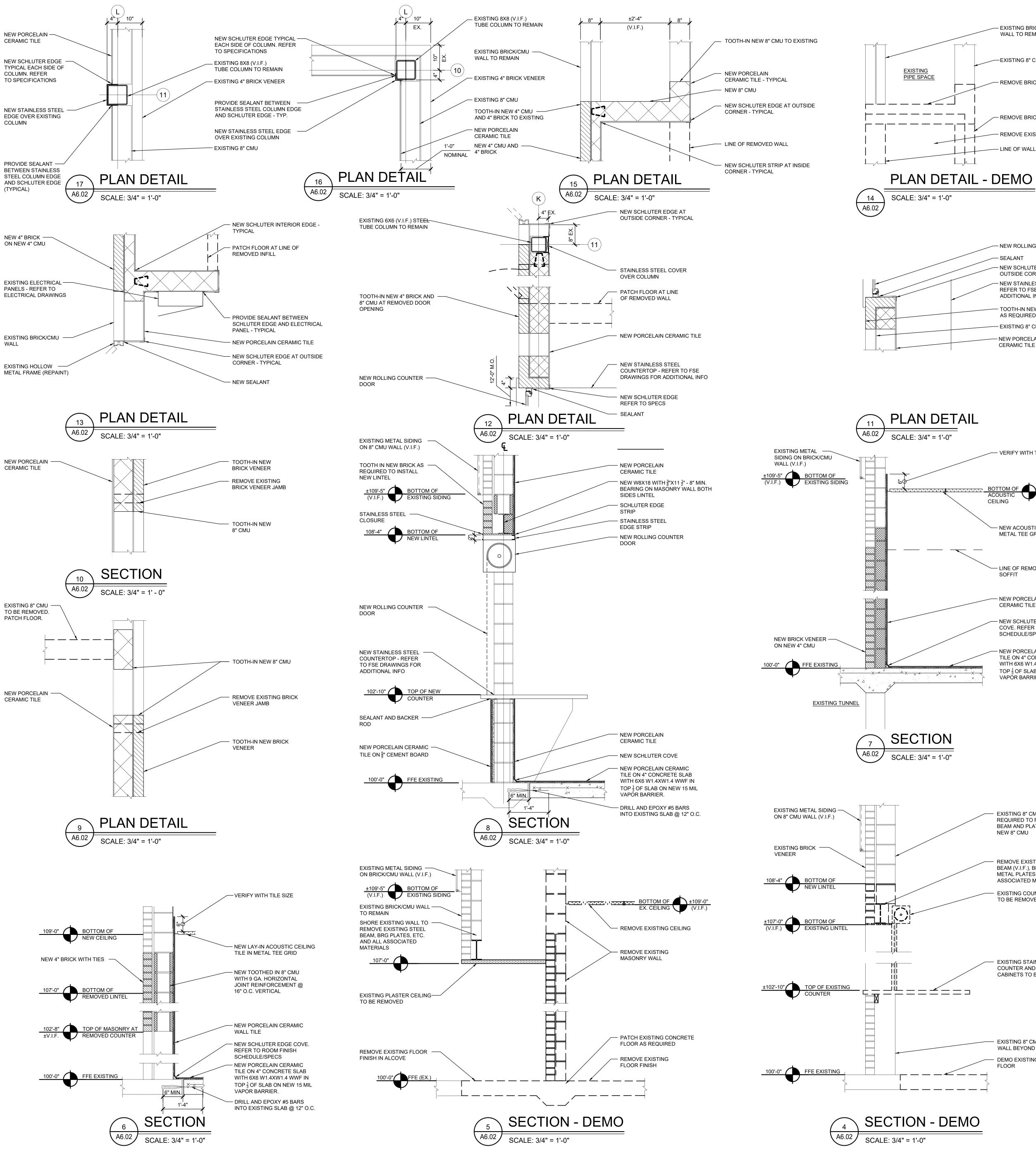
N

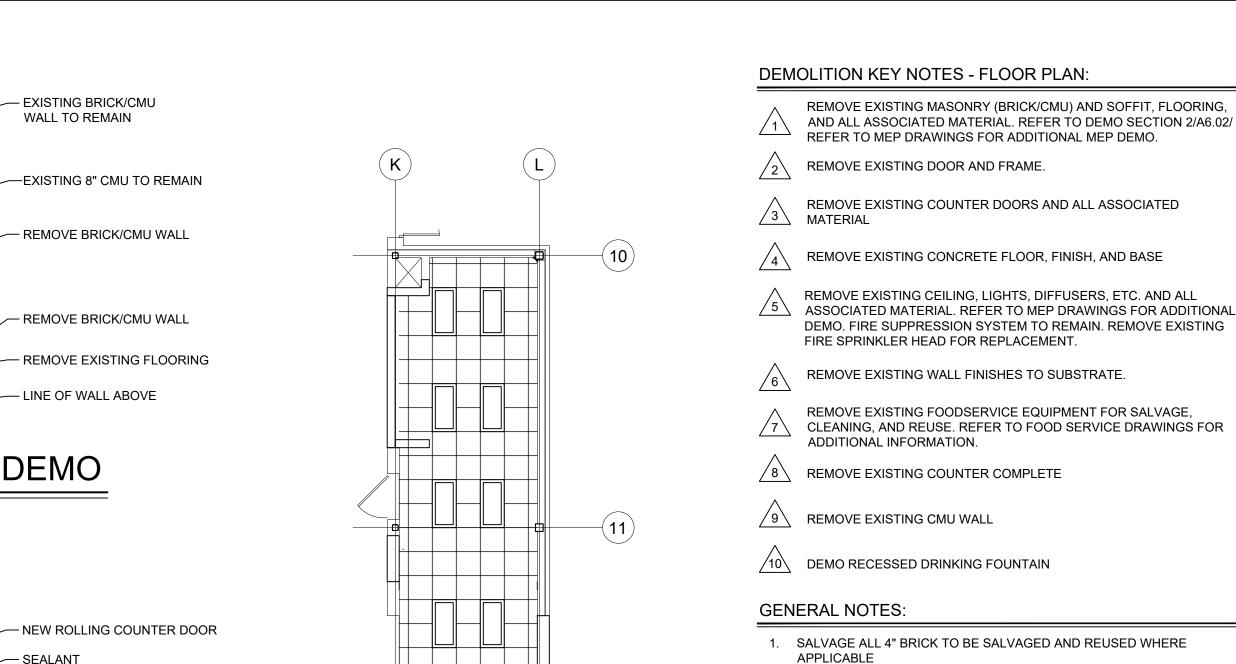
2 SECOND FLOOR COMPOSITE PLAN A6.01 SCALE: 1/40"=1'-0"



WAKELY ASSOCIATES, INC. ARCHITECTS







-(**12**)

ENLARGED CEILING

PLAN

SCALE: 1/8" = 1'-0"

- SEALANT

- NEW SCHLUTER EDGE AT

ADDITIONAL INFO

AS REQUIRED

- EXISTING 8" CMU

- NEW PORCELAIN

CERAMIC TILE

OUTSIDE CORNER - TYPICAL

REFER TO FSE DRAWINGS FOR

- TOOTH-IN NEW BRICK JAMBS

- NEW STAINLESS STEEL COUNTERTOP.

13'-6" (V.I.F.) - VERIFY WITH TILE SIZE 15 14 A6.02 A6.02 BOTTOM OF 109'-0" CEILING - NEW ACOUSTIC TILE AND METAL TEE GRID A6.02 - ACCENT TILE. REFER TO SPECS LINE OF REMOVED A6.02 A6.02 SOFFIT - NEW PORCELAIN CERAMIC TILE A6.02 - NEW SCHLUTER EDGE COVE. REFER TO FINISH SCHEDULE/SPECS - NEW PORCELAIN CERAMIC TILE ON 4" CONCRETE SLAB WITH 6X6 W1.4XW1.4 WWF IN TOP $\frac{1}{3}$ OF SLAB ON NEW 15 MIL —×— VAPOR BARRIER. — NEW BOTTLE FILLING STATION ENLARGED PLAN A6.01 SCALE: 1/8" = 1'-0" EXISTING 8" CMU - SHORE AS (**K**) REQUIRED TO REMOVE EXISTING BEAM AND PLATES. TOOTH-IN

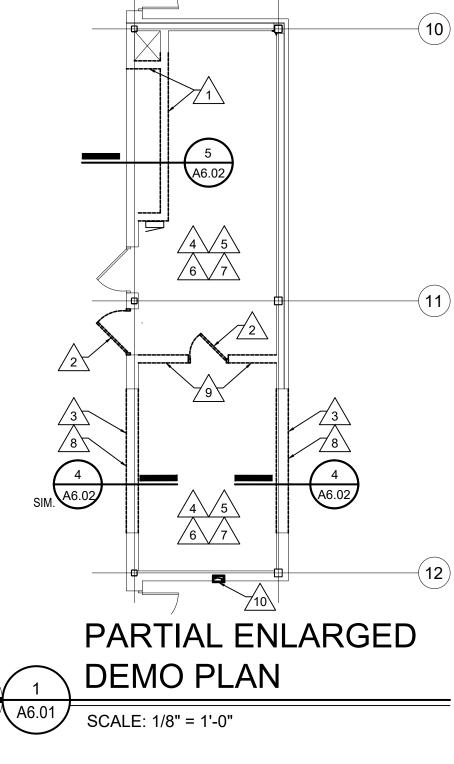
REMOVE EXISTING LINTEL BEAM (V.I.F.), BRG PLATES, METAL PLATES, AND ALL ASSOCIATED MATERIALS - EXISTING COUNTER SHUTTER TO BE REMOVED COMPLETE

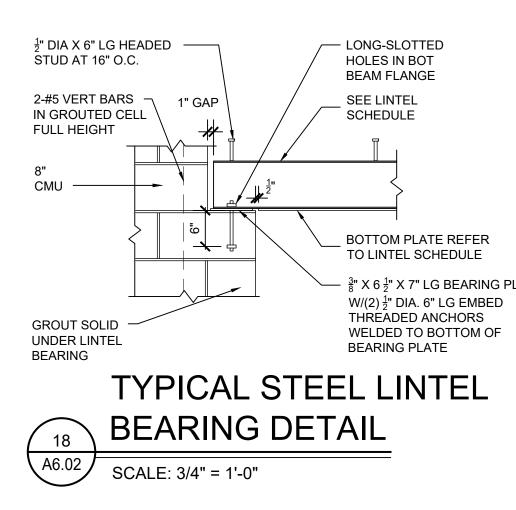
NEW 8" CMU

EXISTING STAINLESS STEEL COUNTER AND ASSOCIATED CABINETS TO BE REMOVED

- EXISTING 8" CMU WALL BEYOND - DEMO EXISTING CONCRETE FLOOR

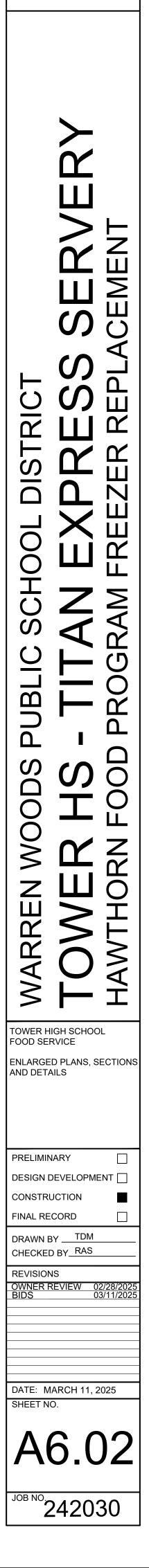
N







WAKELY ASSOCIATES, INC. ARCHITECTS



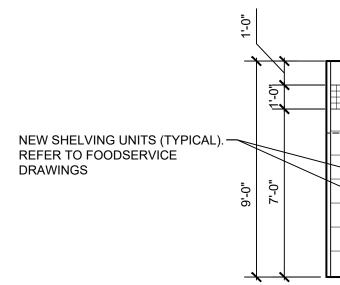
RC	OM FINISH SO	CHEDL	JLE				
					CEILI	NG	_
NO.	ROOM NAME	FLOOR	BASE	WALLS	MATERIAL	HGT.	REMARKS
100	SERVERY	PCT	PCT	PCT	ACT	9'-0"	1,2,3

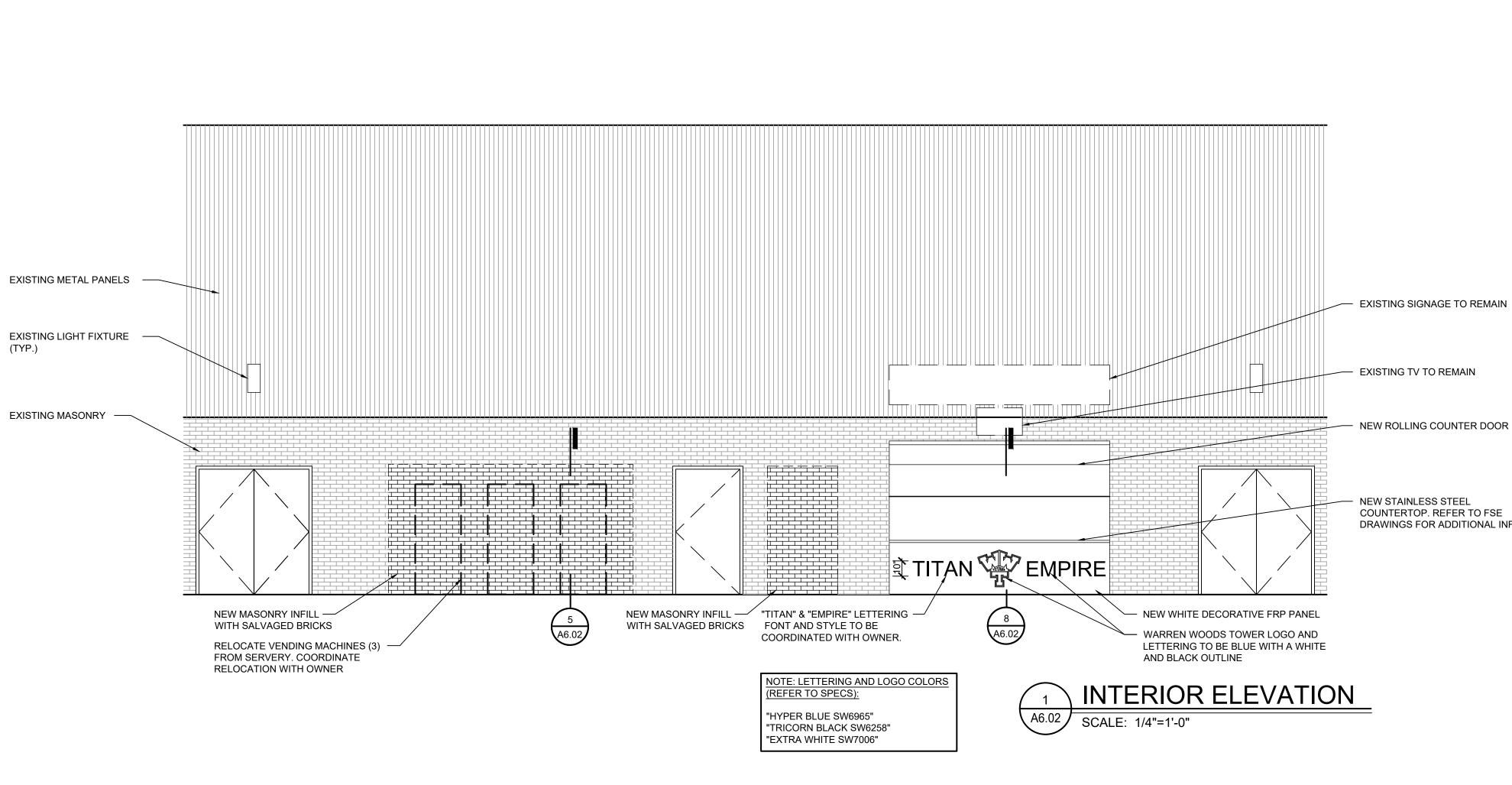
ROOM FINISH REMARKS:

- 1. NEW FOOD SERVICE GRADE ACOUSTIC TILE IN NEW GRID
- 2. PAINT EXISTING DOOR FRAME BOTH SIDES WITH NEW EPOXY PAINT
- 3. REFER TO ELEVATIONS AND SPECS FOR PORCELAIN CERAMIC WALL TILE SIDES

ABBREVIATIONS

РСТ	PORCELAIN CERAMIC TILE
ETR	EXISTING TO REMAIN
ACT	ACOUSTIC CEILING TILE
	(REFER TO SPECS)
PT	PAINT





3" X 3" TRIM TILE	NEW STAINLESS STEEL	6 A6.02	
			NEW PO REMOVE OPENIN NEW FO REFER 1 DRAWIN
		NEW THREE COMPARTMENT SINK - REFER TO FOODSERVICE AND	

PLUMBING DRAWINGS

SCALE: 1/4"=1'-0"

2

A6.02

INTERIOR ELEVATION

PORCELAIN WALL TILE

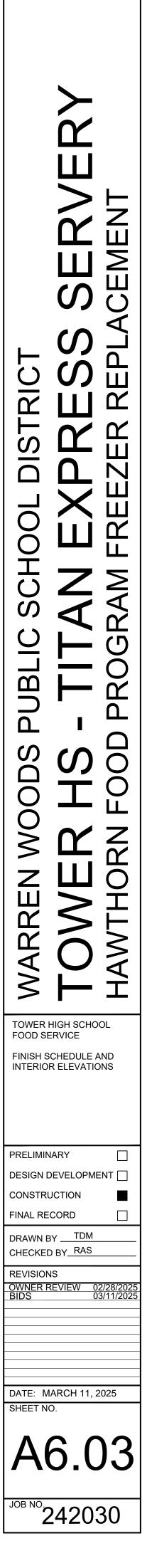
OVED ROLLING DOOR NING TO BE INFILLED V FOODSERVICE EQUIPMENT -ER TO FOODSERVICE WINGS

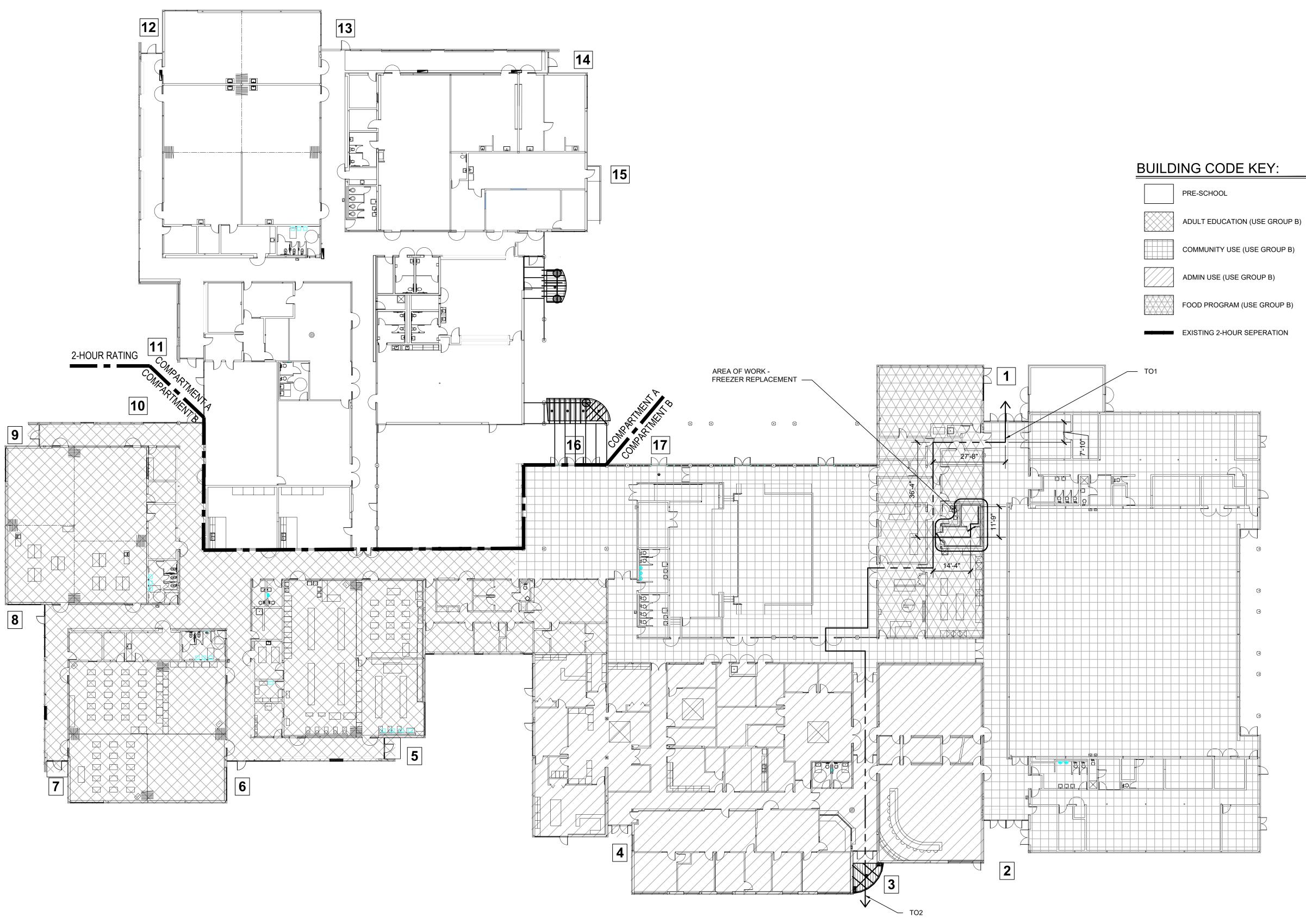
- NEW ROLLING COUNTER DOOR

COUNTERTOP. REFER TO FSE DRAWINGS FOR ADDITIONAL INFO



WAKELY ASSOCIATES, INC. ARCHITECTS





N

PROJECT:	WARREN WOODS PUBLIC SCHOOLS HAWTHORN EDUCATIONAL CENTER FOOD PROGRAM FREEZER REPLACEMENT
ADDRESS:	PROGRAM FREEZER REPLACEMENT 12900 FRAZHO ROAD, WARREN MI 48808
PROPOSED USE:	ADMIN BUILDING BUSINESS USE GROUP/ PR REPLACEMENT OF AN EXISTING FREEZER/C FOOD PROGRAM KITCHEN
REFERENCE CODES:	
RENOVATION: BUILDING: MECHANICAL: PLUMBING: ELECTRICAL: ENERGY:	MICHIGAN REHABILITATION CODE, 2015 EDI MICHIGAN BUILDING CODE, 2015 EDITION MICHIGAN MECHANICAL CODE, 2021 EDITION MICHIGAN PLUMBING CODE, 2021 EDITION MICHIGAN ELECTRICAL CODE, (2023 NEC WI TECHNICAL AMENDMENTS) MICHIGAN ENERGY CODE, 2015 EDITION
BUILDING DATA USE GROUP:	E EDUCATIONAL
CONSTRUCTION TYPE:	TYPE 2B - MIXED CONSTRUCTION TYPE - MA EXISTING SEPARATION BETWEEN PRESCHO AREAS
BUILDING HEIGHT PERMITTED 2 STORIES (TABLE 504.4)	55'
ACTUAL BUILDING HEIGHT	15' TYPE 2B
MAX 2 STORIES (504.2) MEZZANINE	NONE
HIGH RISE GROSS BUILDING AREA (EXISTING):	NONE
GRADE LEVEL:	93,152 S.F. (EXISTING PRESCHOOL 25,924, E BUSINESS AREAS - ADMIN + ADULT = 67,228
SECOND FLOOR: BASEMENT: TOTAL AREA:	N/A S.F. 93,152 S.F.
WORK AREA (FREEZER) GRADE LEVEL: TOTAL:	200 S.F. 200 S.F.
TOTAL AREA (EDUCATIONAL) GRADE LEVEL: TOTAL:	93,152 S.F. 93,152 S.F.
LEVEL 1 ALTERATION UNDER 2015 MBC	
PARTY/FIREWALLS: EXTERIOR BEARING WALLS (FIRE SEPERATION DISTANCE > 30 FEET):	
NORTH: EAST	0 0
WEST SOUTH	0 0
EXTERIOR NON-BEARING (FIRE SEPERATION DISTANCE > 30 FEET)	
NORTH EAST	0 0
WEST SOUTH	0 0
INTERIOR WALLS: BEARING NON-BEARING TENANT SEPERATION	0 0 N/A
FIRE SEPARATION ASSEMBLIES: EXIT ENCLOSURES	2
CEILING-FLOORS ASSEMBLY BEAMS	0 0
COLUMNS CEILING-ROOF ASSEMBLY VERTICAL SHAFTS	0 0 2
MIXED OCCUPANCY SEPARATION: TENANT SEPARATION EXIT ACCESS CORRIDORS (1020.1)	1 PER MICHIGAN LICENSING RULES FOR CH
LIFE-SAFETY SYSTEMS: EMERGENCY LIGHTING & EXIT SIGNS	REQUIRED; PROVIDED
FIRE ALARMS SMOKE DETECTIONS SYSTEMS	REQUIRED; PROVIDED REQUIRED; PROVIDED
PANIC HARDWARE FIRE SUPPRESSION SYSTEM STANDPIPE SYSTEM	REQUIRED; PROVIDED REQUIRED; PROVIDED NOT REQUIRED; NOT PROVIDED
<u>OCCUPANT LOAD:</u> BUSINESS = 1 PERSON/200 GROSS SQUARE FEET SPACE	
TOTAL AREA:	200 S.F.
(1) PERSONS TOTAL CALCULATED - FREEZER/COO EXIT REQUIREMENTS (EDUCATIONAL): DEAD END LIMIT-MAXIMUM CONDITION	ALLOWED: 20'
(1020.4 W/ EXCEPTION #2) TRAVEL DISTANCE TO EXIT-MAXIMUM CONDITION (TABLE 1017.2)	ACTUAL: 0' ALLOWED: 200' ACTUAL: 98' (UNCHANGED)
IN WORK AREA: COMMON PATH OF TRAVEL 1006.3.2 (2)	ALLOWED: 75'
NUMBER OF EXITS (PER STORY) - UNCHANGED:	ACTUAL: 27' IN WORK AREA (UNCHANGED)
REQUIRED (TABLE 1006.3.1) TOTAL OCCUPANT	
LOAD 120 OCCUPANTS DESIGN LOADS (SEE STRUCTURAL DRAWINGS):	ACTUAL (17) (UNCHANGED)
ROOF LIVE LOAD:	20 PSF
WIND: FLOOR: SNOW: SEISMIC:	90 MPH, 23 PSF 100 PSF, 1ST FLOOR CORRIDORS,1000# CON 30 PSF AV = 0.055
LATERAL DESIGN:	AU = 0.055 21 PSF
SOIL BEARING CAPACITIES:	ASSUMED NET SOILS BEARING CAPACITY = N/A

1 LIFE-SAFETY PLAN A7.00 SCALE: 1/20" = 1'-0"

HOOL ER AT THE

ART 8

AINING + BUSINESS

NG

CARE CENTERS

NT LOAD IN

UNCHANGED.

ITRATED

[[二]

WAKELY ASSOCIATES, INC. ARCHITECTS

30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com

 \succ SEMEN CEMEN REPLA REPLA DISTRICT ZER Ш ЦЦ Б Ο ш \geq \mathbf{O} 4 S Ľ \overline{O} Q RO UBL Ω Ω S S S S DS O С С HORN \geq Ζ Ш $\mathbf{\alpha}$ $\mathbf{\gamma}$ \leq 4 4 \geq T HAWTHORN COMPOSITE FLOOR PLANS PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>TDM</u> CHECKED BY<u>RAS</u>

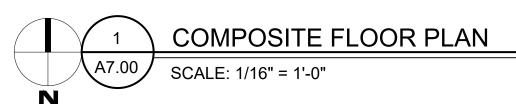
REVISIONS OWNER REVIEW 02/28/20 BIDS 03/11/20

DATE: MARCH 11, 2025 SHEET NO.

LS7.00

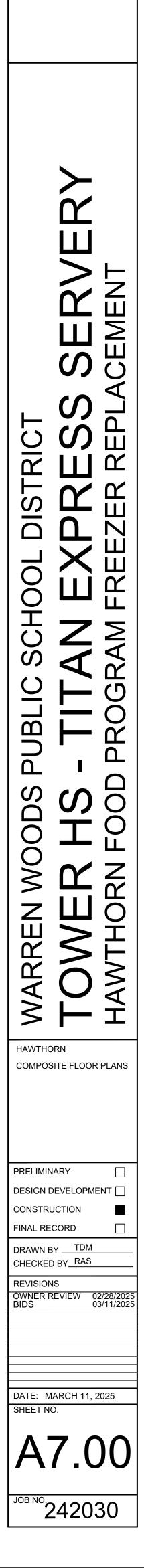
^{ЈОВ NO}.242030







WAKELY ASSOCIATES, INC. ARCHITECTS



BY FREEZER/COOLER MANUFACTURER EXISTING CONCRETE SLAB. PATCH — FLOOR FINISH AS REQUIRED

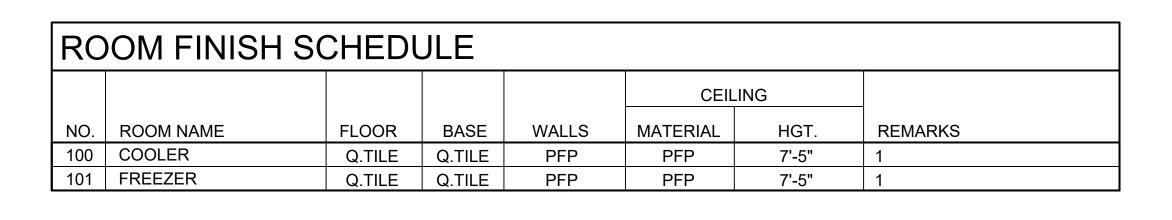
EXISTING CONCRETE THICKENED SLAB (V.I.F.) NEW 2X10 TREATED WOOD -REFER TO FSE DRAWINGS FOR ADDITIONAL INFO. NEW WATERTIGHT SEAL FORMED -BY 6 MIL. POLYEURETHANE VAPOR BARRIER - ALL SIDES AND BOTTOM

BY FREEZER/COOLER MANUFACTURER NEW Q.TILE (THINSET) -NEW 3¹/₂" CONCRETE SLAB WITH 6X6 W1.4XW1.4 WWF

NEW (3) 2" LAYERS RIGID -INSULATION. STAGGER JOINTS NEW 6" CONCRETE SLAB WITH 6X6 W2.9XW2.9 WWF NEW WATERTIGHT SEAL FORMED -BY 6 MIL. POLYEURETHANE VAPOR BARRIER - ALL SIDES AND

BOTTOM

 $\sim -$



ROOM FINISH REMARKS:

1. REFER TO FSE DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.

- COOLER DOOR - REFER TO FSE DRAWINGS AND SPECIFICATIONS FOR <u>COOLER</u> ADDITIONAL INFORMATION - NEW Q.TILE (THINSET) - NEW $3\frac{1}{2}$ " CONCRETE SLAB WITH 6X6 W1.4XW1.4 WWF ___X___X____X____ _____X Δ· Δ· _____ NEW (3) 2" LAYERS RIGID INSULATION. STAGGER JOINTS NEW 15 MIL VAPOR BARRIER NEW 6" CONCRETE SLAB WITH 6X6 W2.9XW2.9 WWF ENLARGED ARCHITECTURAL PLAN A7.01 SCALE: 3/4" = 1'-0" -FREEZER DOOR - REFER TO FSE DRAWINGS AND SPECIFICATIONS FOR <u>FREEZER</u> <u>COOLER</u> ADDITIONAL INFORMATION - NEW Q.TILE (THINSET) NEW 3¹/₂" CONCRETE SLAB WITH 6X6 W1.4XW1.4 WWF _____X____X_____X_____ $X \xrightarrow{A} A \xrightarrow{A} X \xrightarrow{A} A$

Å A

ENLARGED ARCHITECTURAL

NEW (3) 2" LAYERS RIGID INSULATION.

-NEW 2X10 TREATED WOOD - REFER TO

FSE DRAWINGS FOR ADDITIONAL INFO.

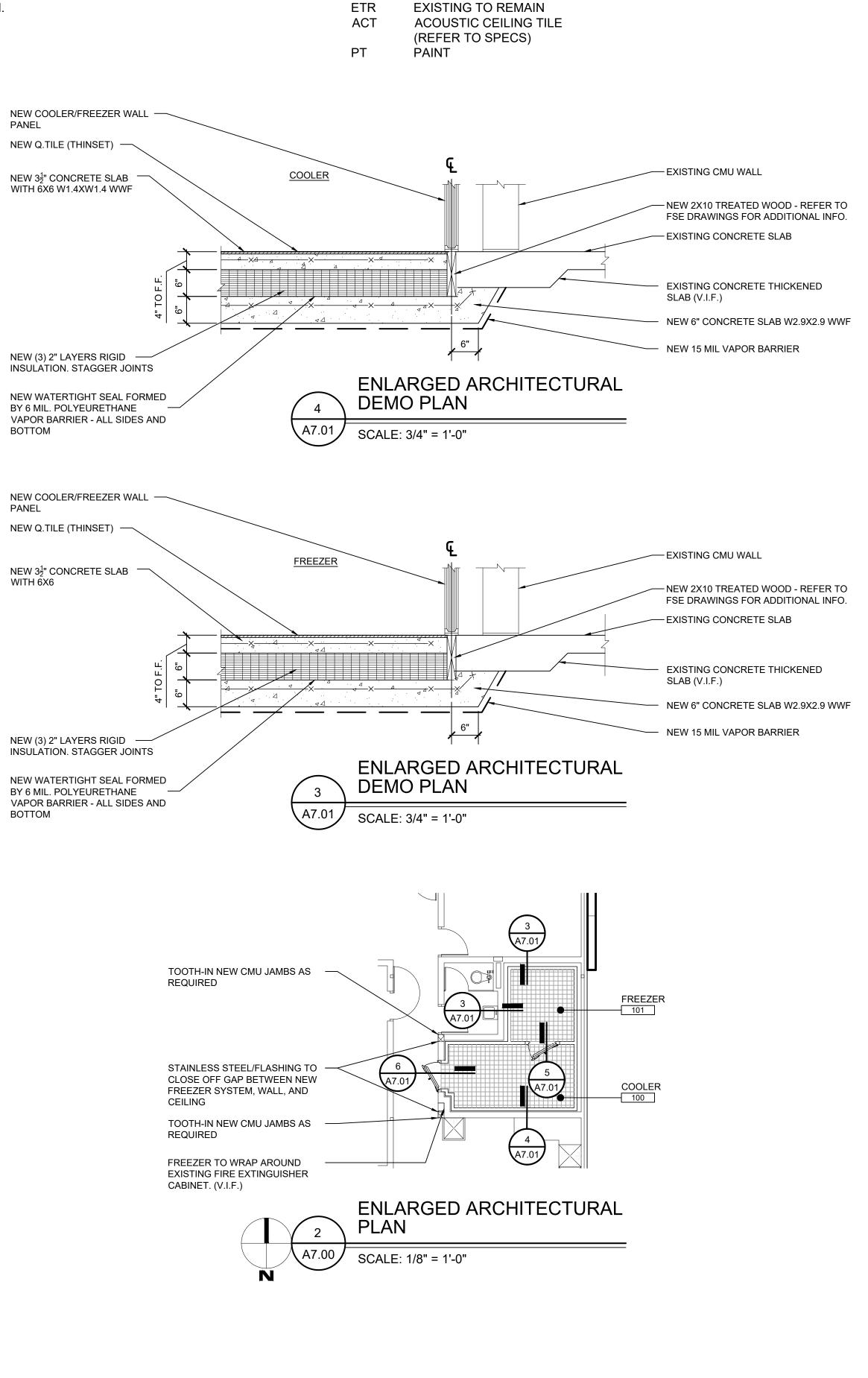
NEW 15 MIL VAPOR BARRIER

STAGGER JOINTS

Δ.

SCALE: 3/4" = 1'-0"

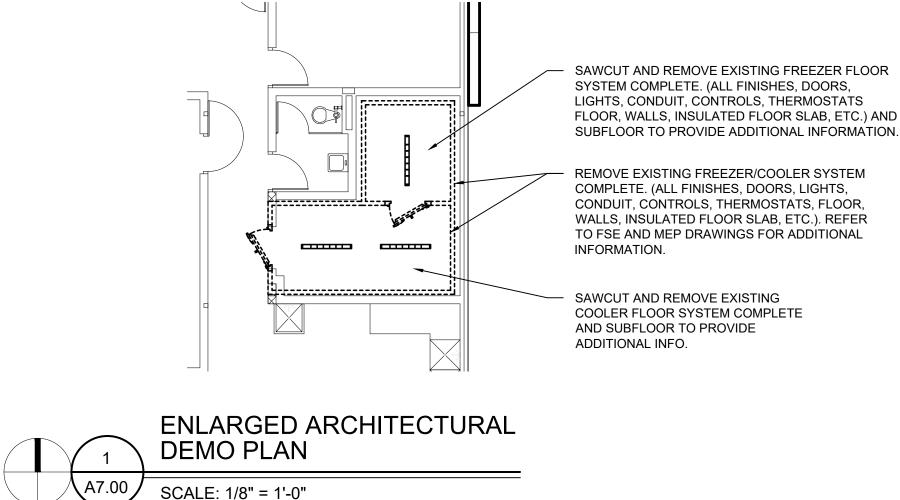
A7.01



ABBREVIATIONS

PRE-FINISHED PANELS

PFP

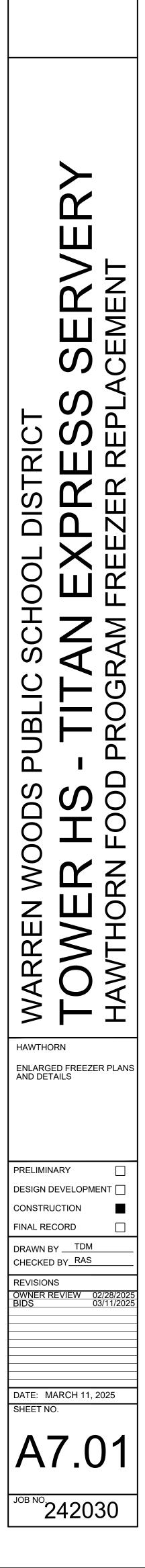


COMPLETE. (ALL FINISHES, DOORS, LIGHTS, CONDUIT, CONTROLS, THERMOSTATS, FLOOR, WALLS, INSULATED FLOOR SLAB, ETC.). REFER TO FSE AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.

SAWCUT AND REMOVE EXISTING COOLER FLOOR SYSTEM COMPLETE AND SUBFLOOR TO PROVIDE ADDITIONAL INFO.



WAKELY ASSOCIATES, INC. ARCHITECTS



MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
	AUTOMATIC SPRINKLER RISER
ASR	
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA/EXH	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
۰F	DEGREES FAHRENHEIT
FA	FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
	FIRE HOSE CABINET
FHR	
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FUENISHED
FURN	FORNISHED FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER

MECHANICAL ABBREVIATIONS

MECHANICAL ABBREVIATIONS

MEC	HANICAL ABBREVIATIONS	MECH	ANICAL ABBREVIATIONS	Μ	ECH/
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	
HR	HOUR	UR	URINAL	<u> </u>	REC
HTG	HEATING	VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)	ţţ	
HYD	HYDRANT	VTR	VENT THRU ROOF		REC
ΗZ	HERTZ	W	WASTE	, ,	ROL
ID	INSIDE DIAMETER	₩&V	WASTE AND VENT	Ţ.	
IE	INVERT ELEVATION	WB	WET BULB TEMPERATURE		ROL
IN	INCHES	WC	WATER CLOSET		SPI
INST	INSTALLED	WG	WATER GAUGE		
INV	INVERT	WH	WALL HYDRANT		ELB
ISP	INTERNAL STATIC PRESSURE				RAD
IW	INDIRECT WASTE			۲۲ ۲۲	
KW	KILOWATT	MECH	IANICAL PIPING SYMBOLS		RAD
LAT	LEAVING AIR TEMPERATURE				REC
LAV	LAVATORY	ABBREV.	DESCRIPTION	, , , , , , , , , , , , , , , , , , ,	
LBS/HR	POUNDS PER HOUR	0	PIPE ELBOW UP		ROL
LDB	LEAVING DRY BULB TEMPERATURE		PIPE ELBOW DOWN		REC
LRA	LOCKED ROTOR AMPS		PIPE TEE DOWN	l 	
LWB	LEAVING WET BULB TEMPERATURE	>	DIRECTION OF FLOW		ROL
MAV	MANUAL AIR VENT		UNION		CON
MAX	MAXIMUM		STRAINER	I	
MBH	1000 BRITISH THERMAL UNITS PER HOUR		CONCENTRIC REDUCER	∽_ <u></u>	CON
MCA	MINIMUM CIRCUIT AMPACITY		ECCENTRIC REDUCER		ECC
MECH	MECHANICAL	—— —— ——	EXPANSION JOINT		
MFR	MANUFACTURER		FLEXIBLE CONNECTION	<u></u>	ECC
MH	MANHOLE	— X —	PIPE ANCHOR		
MIN	MINIMUM		PIPE GUIDE	r r	(DO INCL
MISC	MISCELLANEOUS		PIPE CAP OR PLUG	<u>} - </u>	(SIN
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)	——×—	ISOLATION VALVE		INCL
MOP	MAXIMUM OVER-CURRENT PROTECTION		CIRCULATING PUMP	· · · · ·	(DO INCL
N.C.	NOISE CRITERIA		GLOBE VALVE	<u>}</u> ;,	(SIN
NIC	NOT IN CONTRACT	i5i	BALL VALVE	t g t	FLE
NC	NORMALLY CLOSED	/×/	BUTTERFLY VALVE		
NO	NORMALLY OPEN	₮	ANGLE VALVE	FWW	FLE: DIFF
NOM	NOMINAL	₽ \	CHECK VALVE (SWING)		
OA	OUTSIDE AIR		CHECK VALVE (SPRING)	<u>ب</u>	SUF
OBD	OPPOSED BLADE DAMPER	I4	PLUG VALVE		LINE
OC	ON CENTER / CENTER TO CENTER	X	NEEDLE VALVE		
OD	OUTSIDE DIAMETER		OUTSIDE SCREW AND YOKE VALVE (OS&Y)	∽	RET
OED	OPEN ENDED DUCT	¢	PRESSURE REGULATING VALVE	ц‡П	TRA
ORS	OVERFLOW ROOF SUMP	×	SOLENOID VALVE	, 	
OS&Y	OUTSIDE SCREW AND YOKE		CONTROL VALVE (2-WAY / 3-WAY)	\ge	CRC
PD	PRESSURE DROP (FEET OF WATER)	\bigcirc	CENTRIFUGAL FAN		CRC
PRV	PRESSURE REDUCING VALVE	M	AUTOMATIC GAS SHUT-OFF VALVE		DUC
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE	0C	TRAP (PLAN VIEW)		EXISTING
PSIG	POUNDS PER SQUARE INCH – GAUGE		FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)		NEW
PT	PRESSURE / TEMPERATURE PORT	Y _y	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)		EXISTING
RA	RETURN AIR	(Õ)	ROOF SUMP		NEW
RH	RELATIVE HUMIDITY		CLEAN OUT (IN FLOOR)	•	
REQD	REQUIRED		CLEAN OUT (IN LINE)	ď	EXISTING
REL.A	RELIEF AIR		CLEAN OUT (WALL)		NEW
RPM	REVOLUTIONS PER MINUTE	BFP	BACKFLOW PREVENTER		EXISTIN
RPZ	REDUCED PRESSURE ZONE		WATER METER ASSEMBLY		NEW
RS	ROOF SUMP	-+	HOSE BIBB, WALL HYDRANT	- `d	EXISTIN
SA	SUPPLY AIR	—	DIRECTION OF PIPE PITCH		NEW
SH	SHOWER	\odot	SPRINKLER HEAD (UPRIGHT)	•	
SP	STATIC PRESSURE	\triangleleft	SPRINKLER HEAD (SIDEWALL)	I	VOL
SqFt / SF	SQUARE FOOT/SQUARE FEET	FS	FLOW SWITCH	— – — M	MOT
SS	SERVICE SINK	¢,	SIAMESE CONNECTION (YARD)		
ТС	TEMPERATURE CONTROL	\rightarrow	SIAMESE CONNECTION (WALL MOUNTED)	SD	SMC
Т&Р	TEMPERATURE AND PRESSURE	μĻ	FIRE HYDRANT	(C02)	CO2
TSP	TOTAL STATIC PRESSURE		FLOW MEASURING DEVICE		
TYP	TYPICAL	<i>》</i>	BALANCING VALVE	()	THE TEM
		茵	COMBINATION FLOW MEASURING AND BALANCING DEVICE	H	HUN
UG	UNDERGROUND	× ×		· — ·	
UG UH	UNIT HEATER	⊠ ∏ AAV	AUTOMATIC AIR VALVE		HUM
			AUTOMATIC AIR VALVE MANUAL AIR VALVE	-∿► -►	RET

MECHANICAL SYMBOLS

DESCRIPTION	ABBREV.	DESCRIPTION
RECTANGULAR TAKE-OFF (SINGLE LINE)	CA	COMPRESSED AIR PIPING
(,	CD	CONDENSATE DRAIN PIPING
RECTANGULAR TAKE-OFF (DOUBLE LINE)	DT	DRAIN TILE
ROUND TAKE-OFF (SINGLE LINE)	——F	FIRE PROTECTION PIPING
	FOR	FUEL OIL RETURN PIPING
ROUND TAKE-OFF (DOUBLE LINE)	FOS	FUEL OIL SUPPLY PIPING
SPIN-IN FITTING (WITH VOLUME DAMPER)	——G-——-	NATURAL GAS PIPING
	——BCW——	BOOSTED-DOMESTIC COLD WATER PIPING
ELBOW (WITH TURNING VANES)	BHW	BOOSTED-DOMESTIC HOT WATER PIPING
RADIUS RECTANGULAR ELBOW	CW	DOMESTIC COLD WATER PIPING
	NPCW	NON POTABLE COLD WATER PIPING
RADIUS ROUND ELBOW	——————————————————————————————————————	TEMPERED WATER PIPING
RECTANGULAR ELBOW UP	——HW——	DOMESTIC HOT WATER PIPING
	—HW(140°F)—	DOMESTIC 140°F HOT WATER PIPING
ROUND ELBOW UP	——HWR——	DOMESTIC HOT WATER RETURN PIPING
RECTANGULAR ELBOW DOWN		SANITARY WASTE PIPING
	PSAN	PUMPED SANITARY PIPING
ROUND ELBOW DOWN	V	VENT PIPING
CONCENTRIC TRANSITION (DOUBLE LINE)	ST	STORM SEWER PIPING
	PST	PUMPED STORM PIPING
CONCENTRIC TRANSITION (SINGLE LINE)	RC	RAIN CONDUCTOR PIPING
ECCENTRIC TRANSITION (DOUBLE LINE)	ORC	OVERFLOW RAIN CONDUCTOR PIPING
	——CHWR——	CHILLED WATER RETURN PIPING
ECCENTRIC TRANSITION (SINGLE LINE)	——CHWS——	CHILLED WATER SUPPLY PIPING
INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)	CWR	CONDENSER WATER RETURN PIPING
INCLINED RISE IN DIRECTION OF AIR FLOW	CWS	CONDENSER WATER SUPPLY PIPING
(SINGLE LINE)	——HHWR——	HEATING HOT WATER RETURN PIPING
INCLINED DROP IN DIRECTION OF AIR FLOW (DOUBLE LINE)	——HHWS——	HEATING HOT WATER SUPPLY PIPING
INCLINED DROP IN DIRECTION OF AIR FLOW	HPLR	HEAT PUMP LOOP RETURN PIPING
(SINGLE LINE)	HPLS	HEAT PUMP LOOP SUPPLY PIPING
FLEXIBLE CONNECTION	RL	REFRIGERANT LIQUID PIPING
FLEXIBLE DUCT CONNECTION TO SUPPLY	RS	REFRIGERANT SUCTION PIPING
DIFFUSER	HGB	HOT GAS BY-PASS PIPING
	——GXHR——	GEO HEAT EXCHANGE RETURN
SUPPLY DIFFUSER	——GXHS——	GEO HEAT EXCHANGE SUPPLY
LINEAR SLOT DIFFUSER	STM	STEAM PIPING
	HPS	HIGH PRESSURE STEAM PIPING
RETURN OR EXHAUST GRILLE	LPS	LOW PRESSURE STEAM PIPING
TRANSFER GRILLE	{CR	STEAM CONDENSATE RETURN PIPING
	PCR	PUMPED STEAM CONDENSATE RETURN PIPING
CROSS SECTION OF SUPPLY AIR DUCT	LPC	LOW PRESSURE CONDENSATE PIPING
CROSS SECTION OF EXHAUST OR RETURN AIR DUCT	HPC 	HIGH PRESSURE CONDENSATE PIPING
	——MA——	MEDICAL AIR PIPING

EXISTING FIRE DAMPER (HORIZONTAL) NEW EXISTING

FIRE DAMPER (VERTICAL)

EXISTING SMOKE DAMPER

EXISTING COMBINATION FIRE/SMOKE DAMPER (VERTICAL) NEW

EXISTING COMBINATION FIRE/SMOKE DAMPER NEW (HORIZONTAL)

VOLUME DAMPER (MANUALLY ADJUSTABLE)

MOTORIZED DAMPER

SMOKE DETECTOR

CO2 SENSOR

THERMOSTAT OR TEMPERATURE SENSOR

HUMIDISTAT OR HUMIDITY SENSOR

RETURN OR EXHAUST / SUPPLY AIR FLOW

PIPING LEGEND	PIPING	LEGEND
---------------	--------	--------

DESCRIPTION — DT — DRAIN TILE -----F---------FIRE PROTECTION PIPING ——G——— NATURAL GAS PIPING -BCW-BOOSTED-DOMESTIC COLD WATER PIPING -BHW ----- BOOSTED-DOMESTIC HOT WATER PIPING

------N NITROGEN GAS PIPING

DRAWING INDEX

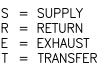
SHT NO	DESCRIPTION
M0.00T	MECHANICAL GENERAL INFORMATION
M1.00T	MECHANICAL COMPOSITE PLAN
P4.00T	ENLARGED PLUMBING DEMOLITION & NEW WORK UN
P4.01T	ENLARGED PLUMBING DEMOLITION & NEW WORK FI
M4.01T	ENLARGED MECHANICAL DEMOLITION & NEW WORK
M5.00T	MECHANICAL DETAILS & SCHEDULES

DRAWING NOTATION

SYMBOL	DESCRIPTION
	NEW WORK KEY NOTE NO. 1
\sum_{1}	DEMOLITION KEY NOTE NO. 1
<u>AHU-1</u>	EQUIPMENT TAG
S-1 12x12 150-2	AIR TERMINAL TAG: S IE: DIFFUSER TYPE = $S-1$ E NECK SIZE = $12x12$ T CFM = 150 (TYPICAL FOR 2)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIP
\ / / /\	EXISTING SYSTEM COMPONENT TO BE
` ••	POINT OF NEW CONNECTION

APPLICABLE CODES AND REGULATIONS	
YEAR	CODE
2015	MICHIGAN BUILDING CODE
2015	MICHIGAN REHABILITATION CODE FOR EXISTING BUIL
2021	MICHIGAN PLUMBING CODE
2021	MICHIGAN MECHANICAL CODE
2015	MICHIGAN UNIFORM ENERGY CODE
2015	INTERNATIONAL FUEL GAS CODE
2012	NFPA 101 WITH BFS AMENDMENTS

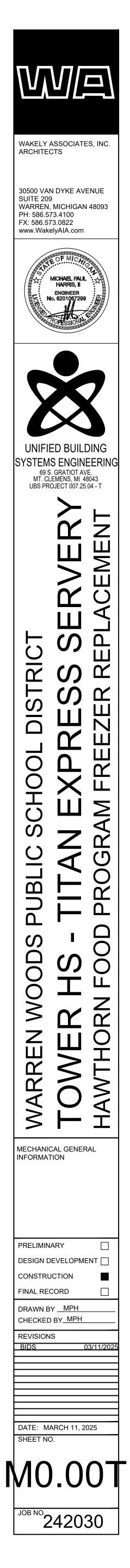
NDERGROUND PLANS
RST FLOOR PLANS
FIRST FLOOR PLANS

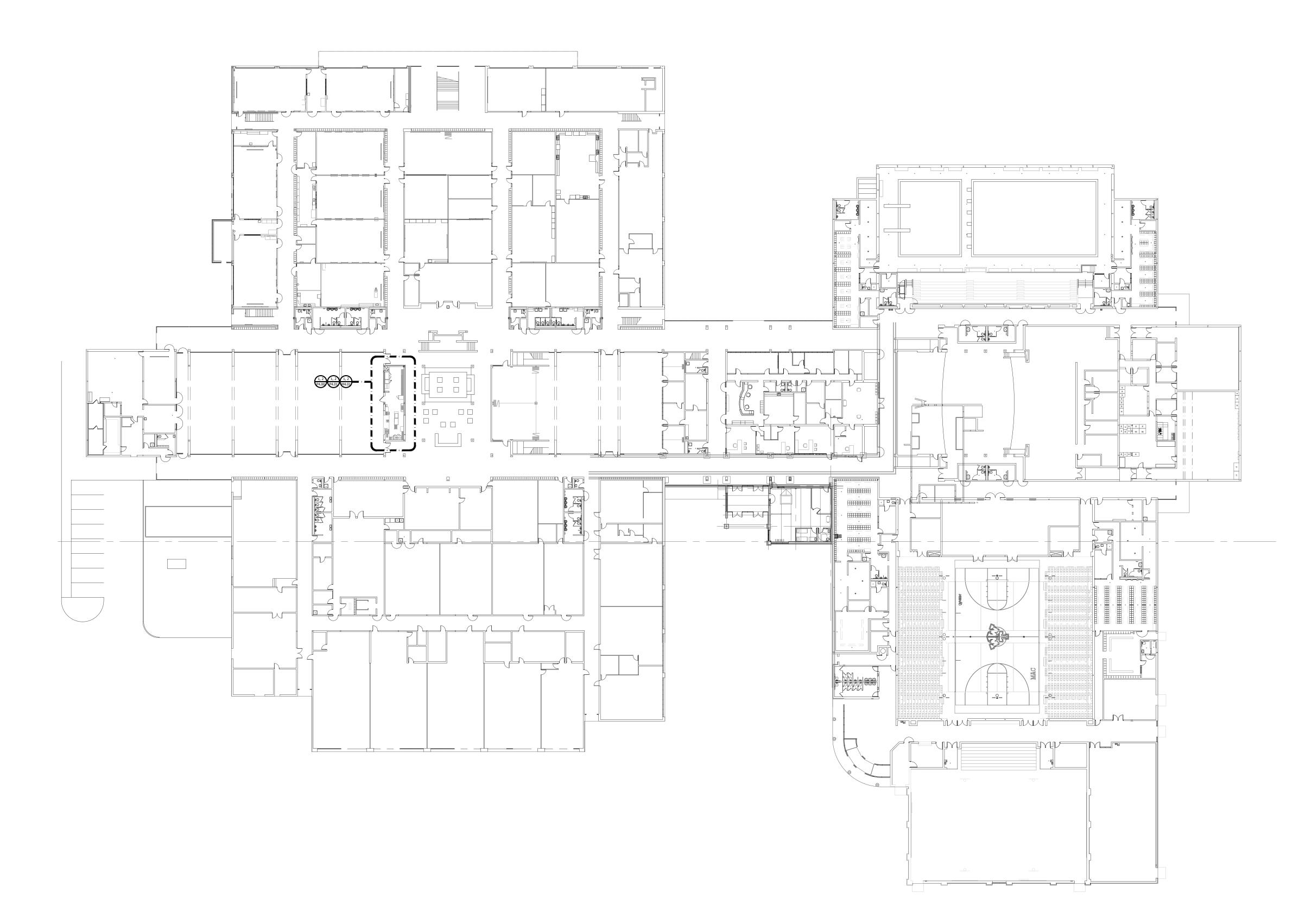


JIPMENT

REMOVED

UILDINGS	





MECHANICAL COMPOSITE PLAN SCALE: 1/32" = 1'-0"

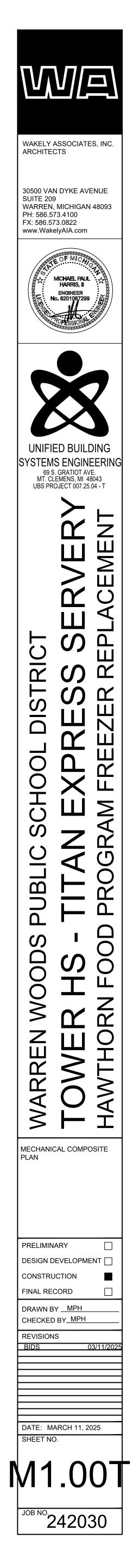
	GENERAL DEMOLITION NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIP BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNE REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRES BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITION SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL C INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE RE COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGEF SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-EN AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY D GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EX RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXIS UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTIONS STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EX UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLAN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVA REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FRO WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION REQUIRED TO MATCH EXISTING.

	PLUMBING GENERAL NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE G EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPM BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESE BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL V SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITION SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REM COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-END AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EC BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DIS GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXIS RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXIST UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXIS UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVAT REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED D DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION A REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMU NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHA
К	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECTION FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROV UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG W
М	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO P MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. S USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED

HVAC GENERAL NOTES
THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT TH EXTENT OF WORK TO BE PERFORMED. PROVIDE AND EXECU SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPL CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WEL STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISH BUILDINGS, AND REQUIREMENTS OF THE OWNER.
EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACC WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYS TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION PROJECT IS DELIVERED TO THE OWNER.
THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AN ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING AT ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PAI CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMP PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY H THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROP DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND

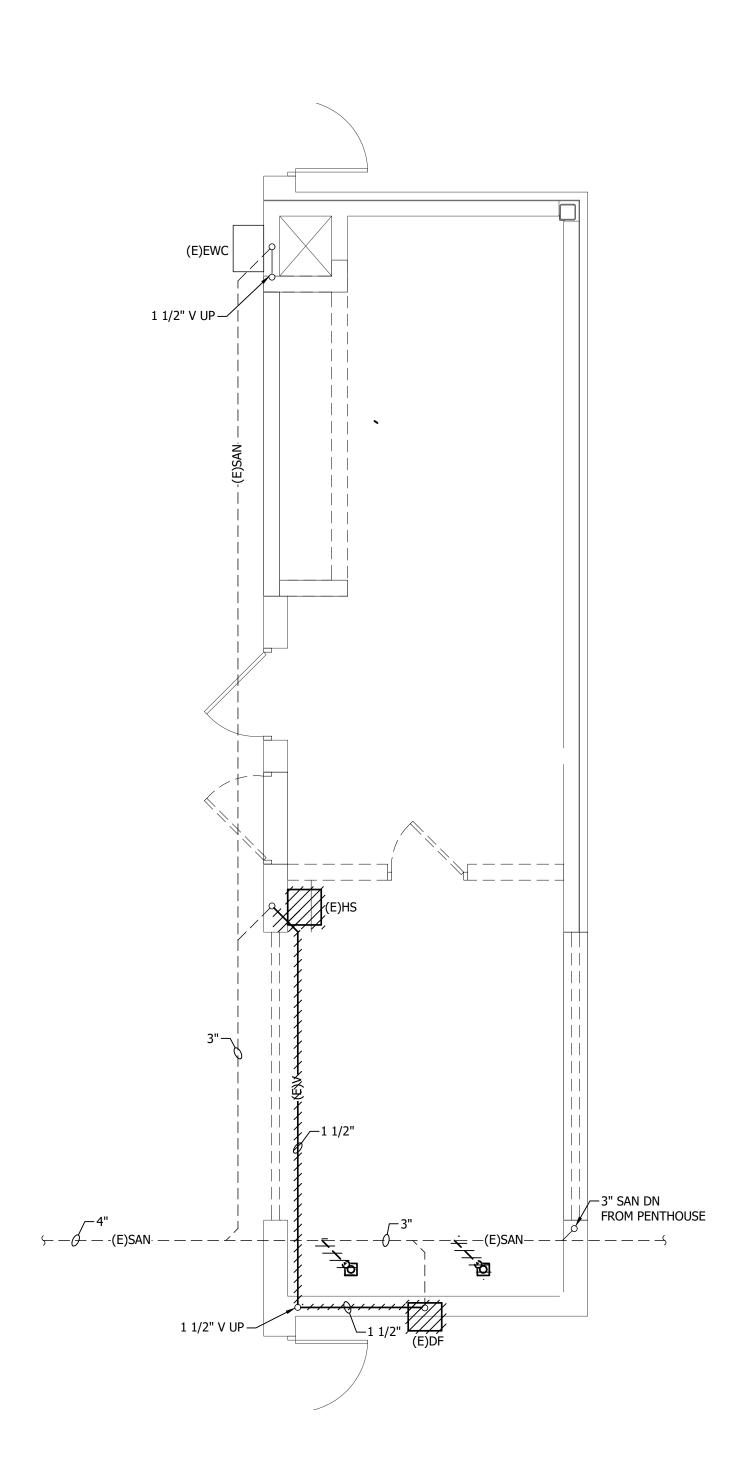
	ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPER DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND AP FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, PAY INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO IN THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CON DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQU DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECT SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
Н	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOC AS REQUIRED BY THE OWNER.
J	ALL SUPPORT ANCHORS SECURED TO THE BOTTOM OF FLOOR S SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING SHALL BE PROVIDED BY THE CONTRACTOR.
К	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION TRESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPO STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTE
М	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE N SIZE IS INDICATED.

	_
S	
general)F	
PMENT SHALL ER'S SENT	
VISIT THE ONS, DF ANY	
emoved RS, Nded Pipes	
EQUIPMENT DISPOSED OF. DISTING	
STING DN, PRIOR TO	
Kisting NS has been Ation and	
M DAMAGE. DURING N AS	
GENERAL	
PMENT SHALL	
PMENT SHALL ER'S SENT VISIT THE	
ONS, DF ANY	
Emoved RS, Nded Pipes	
Equipment Disposed of. Disting	
STING ON PRIOR TO	
Kisting NS has been Ation and	
M DAMAGE. DURING NAS	
AT 1/4" PER UM UNLESS HALL BE 3". TON ON ALL	
OVIDE A PIPE WITH CAP.	
PLASTIC . SHALL BE ED.	
LD.	J
E GENERAL TE ALL HVAC ICABLE L AS THE ED FOR THE	
TE ALL HVAC JCABLE L AS THE ED FOR THE BY THE	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND ID AGAINST TORNEYS	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND AGAINST TORNEYS RT OF THE PLOYEES HIM/HER IN OMISSION	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND E ID AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND AGAINST TORNEYS RT OF THE OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND E ID AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND E ID AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE ONTRACT EQUIPMENT;	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE CONTRACT EQUIPMENT; AL ECTIONS	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND ID AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE CONTRACT EQUIPMENT; AL ECTIONS DOCUMENTS DR SLABS ING STEEL	
TE ALL HVAC ICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND ID AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE IONTRACT EQUIPMENT; AL ECTIONS DOCUMENTS	
TE ALL HVAC ICABLE L AS THE ED FOR THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE CONTRACT EQUIPMENT; AL ECTIONS DOCUMENTS DR SLABS ING STEEL ON THAT NG ACCESS. PPORTING	
TE ALL HVAC ICABLE L AS THE ED FOR THE OF OPTIONS ORDANCE STEMS ARE ON WHEN S AND AGAINST TORNEYS RT OF THE LOYEES HIM/HER IN OMISSION PERTY APPROVAL PAY ALL Y /IEW AND TO ENSURE ONTRACT EQUIPMENT; AL ECTIONS DOCUMENTS	



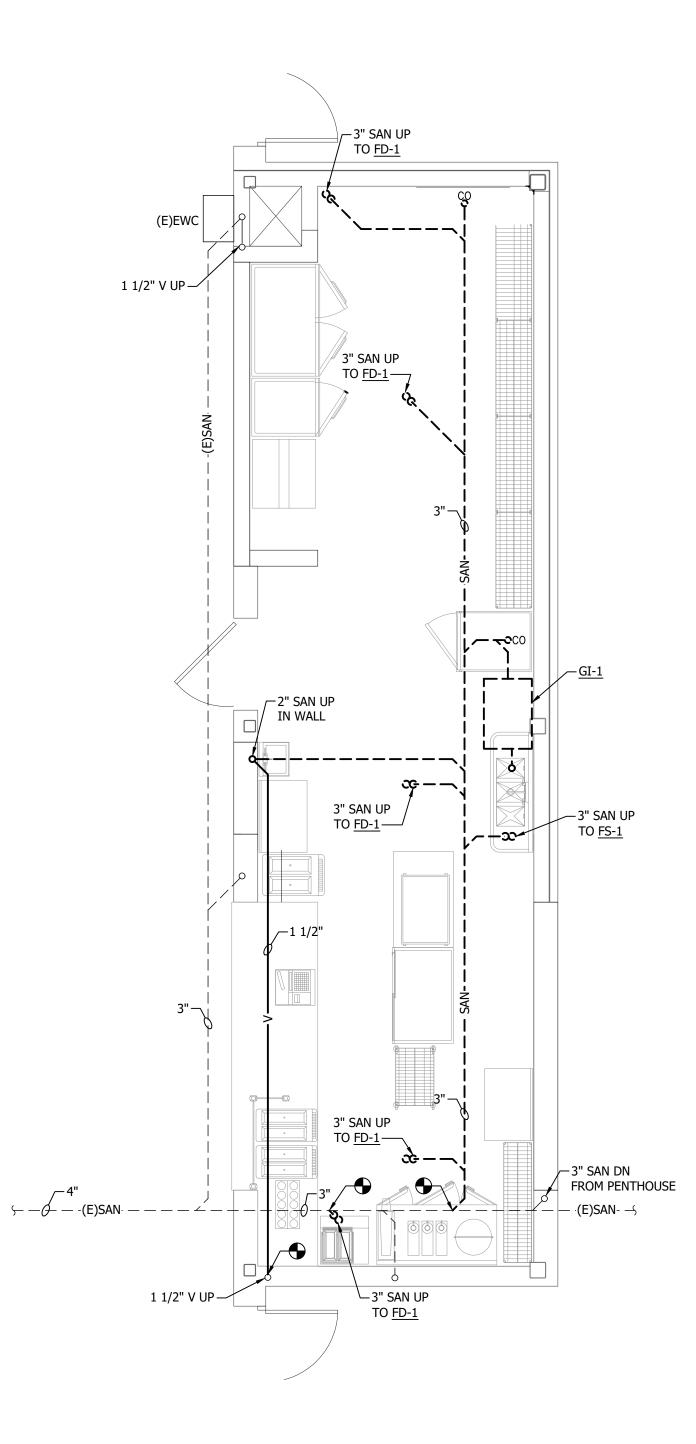


1 M1.00 ENLARGED UNDERGROUND PLUMBING & VENT DEMOLITION PLAN SCALE: 1/4" = 1'-0"



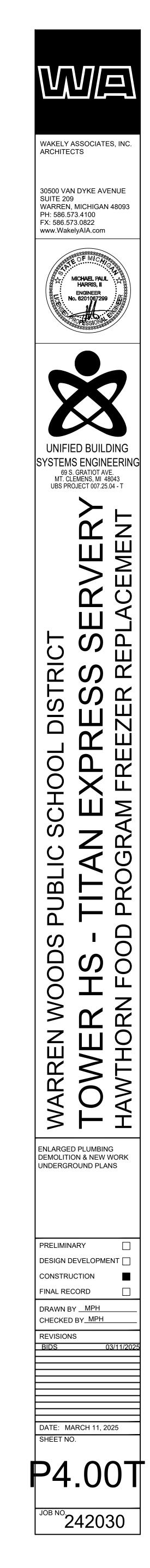
	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
с	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.





	PLUMBING GENERAL NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENE EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMEN BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISI SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF AN INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOV COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUI BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPO GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTIN RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PF STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTI UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HA LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DA WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DUR DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/ FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM U NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL
К	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECTION FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WITH
М	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLAS MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. SHA USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.

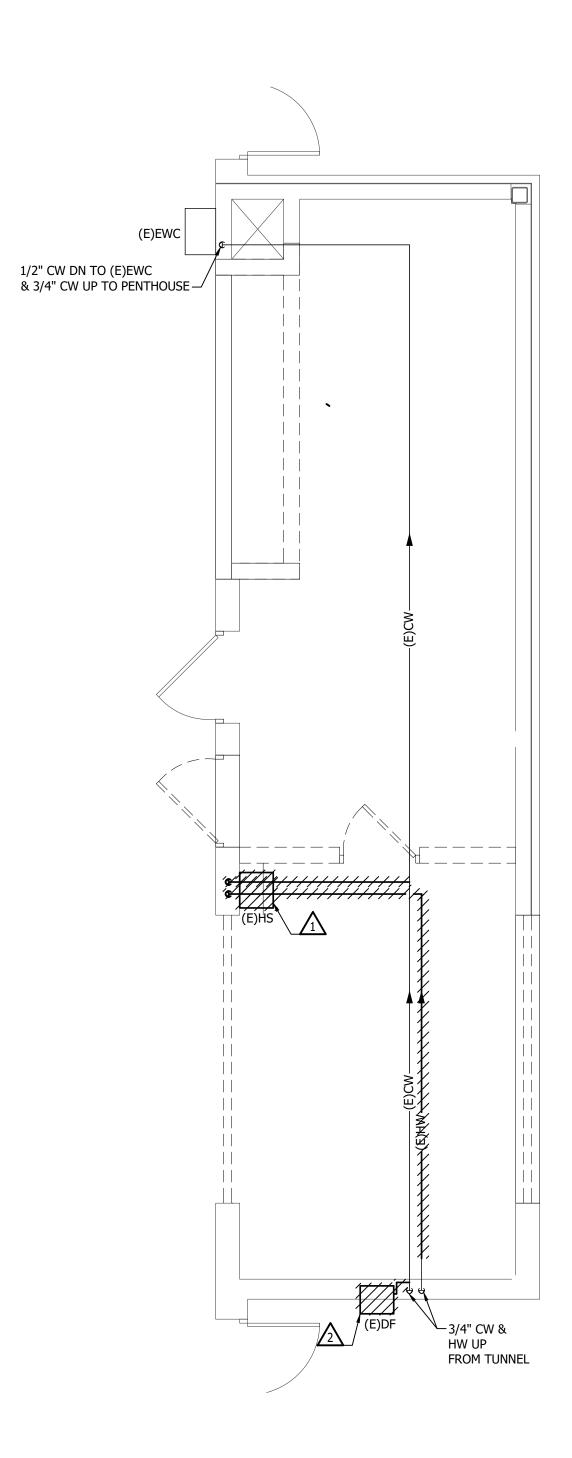
2 M1.00 ENLARGED UNDERGROUND PLUMBING & VENT NEW WORK PLAN SCALE: 1/4" = 1'-0"



- INERAL IENT SHALL NT /ISIT THE is, Any 10VED DED PIPES QUIPMENT SPOSED OF. STING TING N PRIOR TO _____ TING HAS BEEN TON AND DAMAGE. URING 1/4" PER M UNLESS LL BE 3".
- 'IDE A PIPE /ITH CAP. PLASTIC SHALL BE



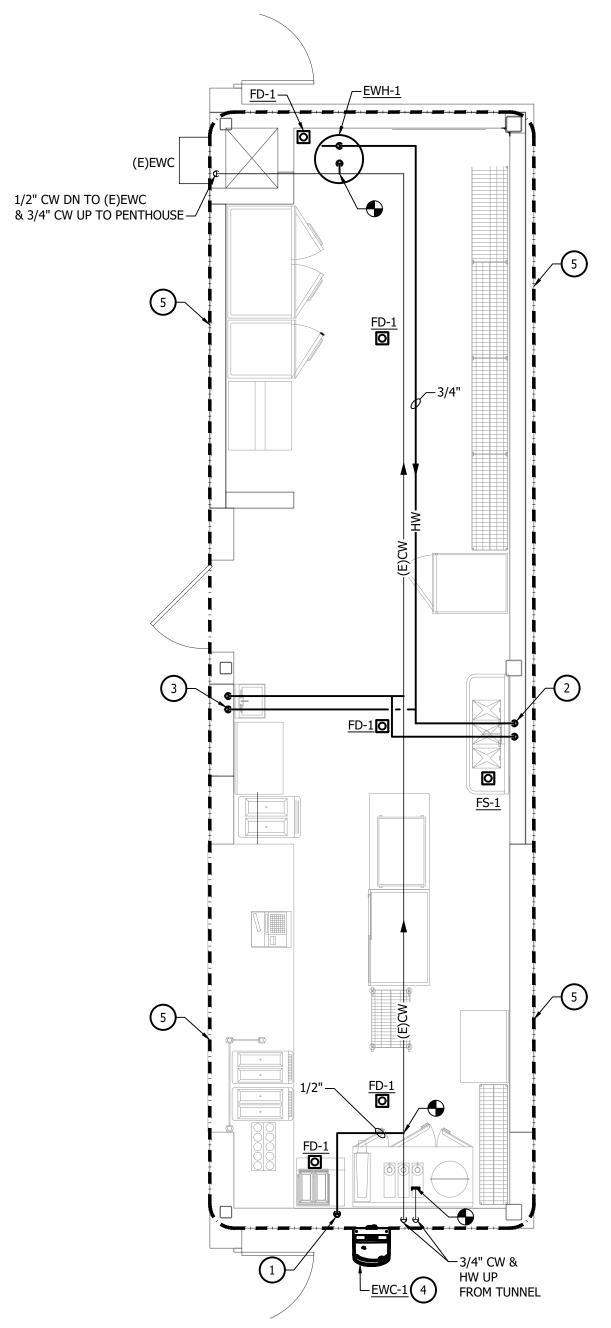
 $\underbrace{1}_{M1.00} \bigoplus \underbrace{\text{ENLARGED PLUMBING DEMOLTION FIRST FLOOR PLAN}}_{\text{SCALE: 1/4"} = 1'-0"}$



	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

\land	DEMOLITION KEYED NOTES
1	REMOVE HAND SINK COMPLETE INCLUDING ALL OVER HEAD PIPING AS INDICATED. CAP SANITARY PIPING IN WALL AND CAP.
2	REMOVE SEMI-RECESSED DRINKING FOUNTAIN COMPLETE INCLUDING ALL OVER HEAD PIPING AS INDICATED. TEMPORARILY CAP PIPING AND PREPARE FOR NEW CONNECTION.





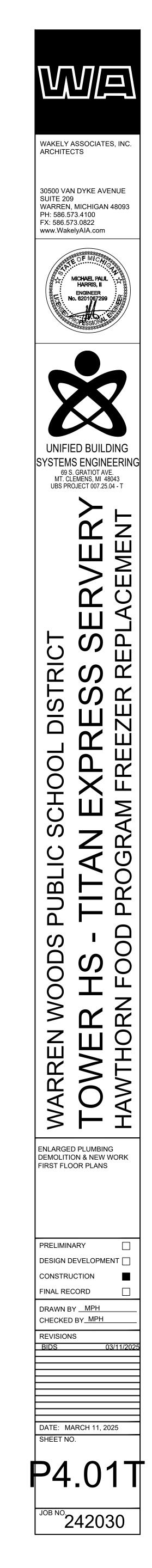
2 M1.00 ENLARGED PLUMBING NEW WORK FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"

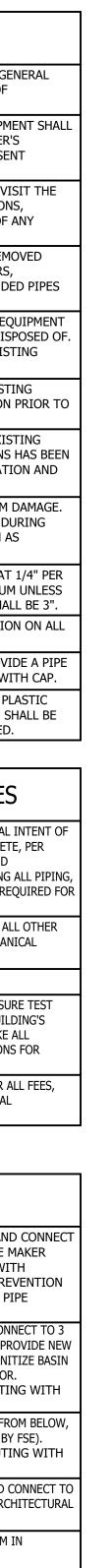
	PLUMBING GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GEN EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMEN BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISI SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF AN INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVE COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQU BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPO GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTI RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTIN UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION P STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXIST UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS H LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATIO REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM D/ WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DUR DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1 FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM (NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL
К	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECTION FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVID UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WIT
М	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLA MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. SH/ USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.

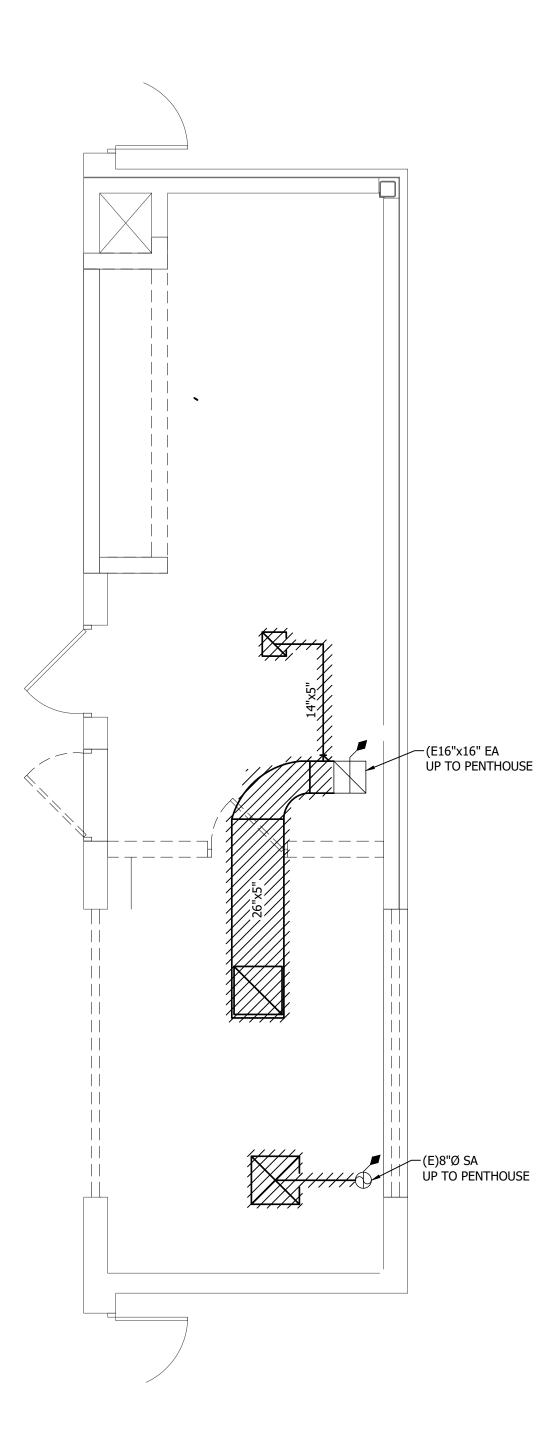
FIRE PROTECTION GENERAL NOTES

THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL IN THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEMS COMPLETE, APPLICABLE CODES, NFPA, OWNERS INSURER'S REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING AL OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQU A COMPLETE OPERABLE SYSTEM.
CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL O TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANIC EQUIPMENT.
MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
FIRE PROTECTION TRADES SHALL SUBMIT PLANS, FLOW AND PRESSURE AND CALCULATIONS TO THE LOCAL FIRE MARSHAL AND TO THE BUILDIN INSURING AGENCY FOR APPROVAL. CONTRACTOR SHALL THEN MAKE AL NECESSARY CORRECTIONS AND RESUBMIT PLANS AND CALCULATIONS F RECORD TO THE ARCHITECT AS WELL AS THE FIRE MARSHAL.
CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTS AND PAY FOR ALL PERMITS, INSPECTIONS, AND LICENSES, AS REQUIRED BY THE LOCAL AUTHORITY.

X	NEW WORK KEYED NOTES
1	ROUTE 1/2" CW DOWN IN EXISTING BLOCK WALL. EXTEND AND CONNECT 1/2" CW TO ICE MAKER (PROVIDED BY OTHERS) AND COFFEE MAKER (PROVIDED BY OTHERS). TERMINATE BOTH CONNECTIONS WITH ISOLATION VALVE AND ASSE 1020 BACKFLOW COMPLIANT PREVENTION DEVICES. COORDINATE NOTCHING OF EXISTING BLOCK FOR PIPE ROUTING WITH ARCHITECTURAL TRADES.
2	EXTEND 1/2" CW, 1/2" HW DOWN IN EXISTING BLOCK WALL AND CONNECT TO 3 COMPARTMENT SINK. INSTALL NEW FAUCET(S), PROVIDED BY FSE. PROVIDE NEW STOPS ON ALL CONNECTIONS. EXTEND 3" SAN FROM RINSE AND SANITIZE BASIN TO FLOOR SINK. 3" SAN FROM WASH BASIN TO GREASE INTERCEPTOR. COORDINATE NOTCHING OF EXISTING BLOCK FOR PIPE ROUTING WITH ARCHITECTURAL TRADES.
3	ROUTE 1/2" CW, 1/2" HW. 1 1/2" V DOWN IN WALL, 1 1/2" SAN UP FROM BELOW, 1 1/2" V DOWN IN WALL AND CONNECT TO HAND SINK (PROVIDED BY FSE). COORDINATE NOTCHING OF EXISTING BLOCK FOR PIPE ROUTING WITH ARCHITECTURAL TRADES.
4	INSTALL ELECTRIC WATER COOLER IN LOCATION OF REMOVED AND CONNECT TO EXISTING SERVICES. INFILL WALL OPENING, COORDINATE WITH ARCHITECTURAL AS REQUIRED FOR INFILL REQUIREMENTS.
5	IN AREA INDICATED, RE-WORK EXISTING FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. COORDINATE WITH ARCHITECTURAL CEILING LAYOUTS AS NECESSARY.





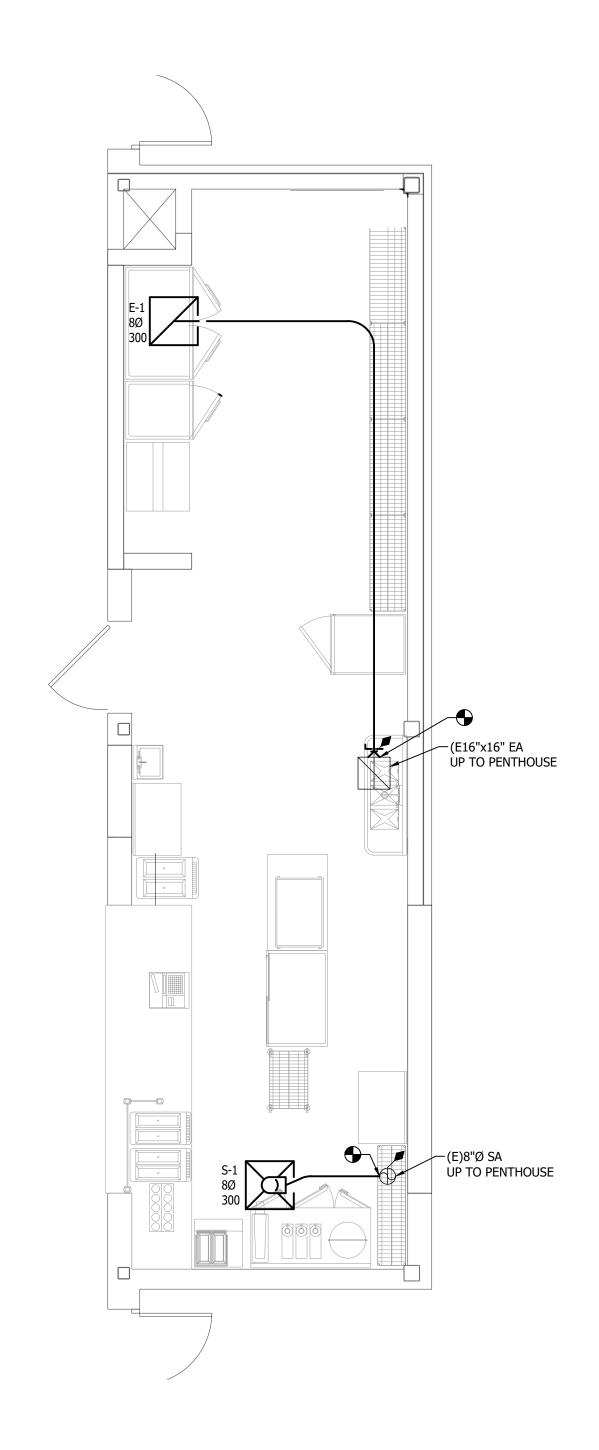




 $\underbrace{1}_{M1.00} \bigoplus \underbrace{\text{ENLARGED MECHNAICAL DEMOLTION FIRST FLOOR PLAN}}_{\text{SCALE: } 1/4" = 1'-0"}$

	GENERAL DEMOLITION NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
с	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

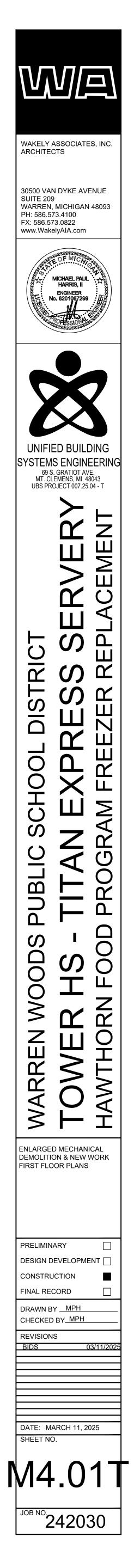


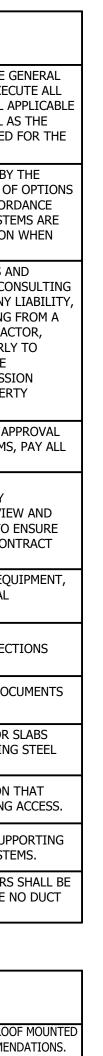


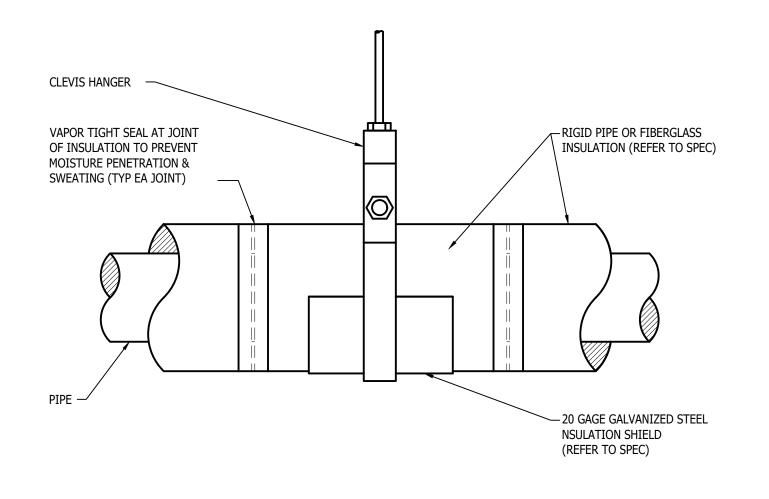
	HVAC GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMAITC AND REPRESENT THE GE EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECU HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APP CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FO BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY T ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF (AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORD/ WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEM TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION V PROJECT IS DELIVERED TO THE OWNER.
С	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENENTS AND AGREES TO IDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONS ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LI LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISING FF FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY T DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSIO ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPI FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, F INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO EN THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTI DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUI DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTI SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
Н	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCU AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SL SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING S SHALL BE PROVIDED BY THE CONTRACTOR.
К	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION TH RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING A
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANNEOUS SUPPO STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEM
Μ	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS S THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO SIZE IS INDICATED.

X	NEW WORK KEYED NOTES
1	ROUTE REFRIGERANT PIPING THRU PIPE PORTAL TO ASSOCIATED ROOF UNIT. LINESETS TO BE SIZED BASED ON MANUFACTURER'S RECOMMEND/ EXTEND CONDENSATE DOWN WALL TO NEARBY FLOOR DRAIN.

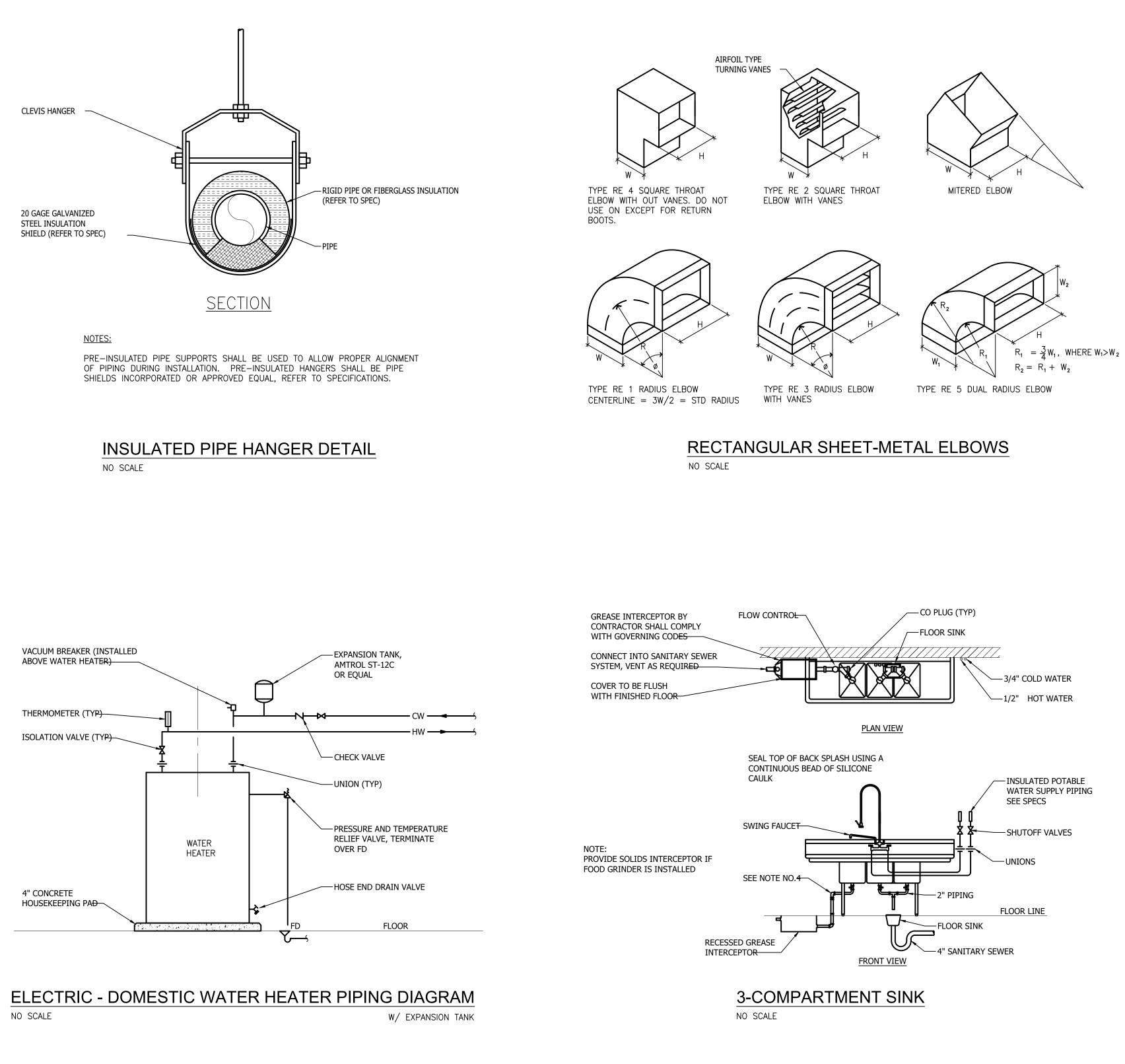
2 M1.00 ENLARGED MECHANICAL NEW WORK FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"

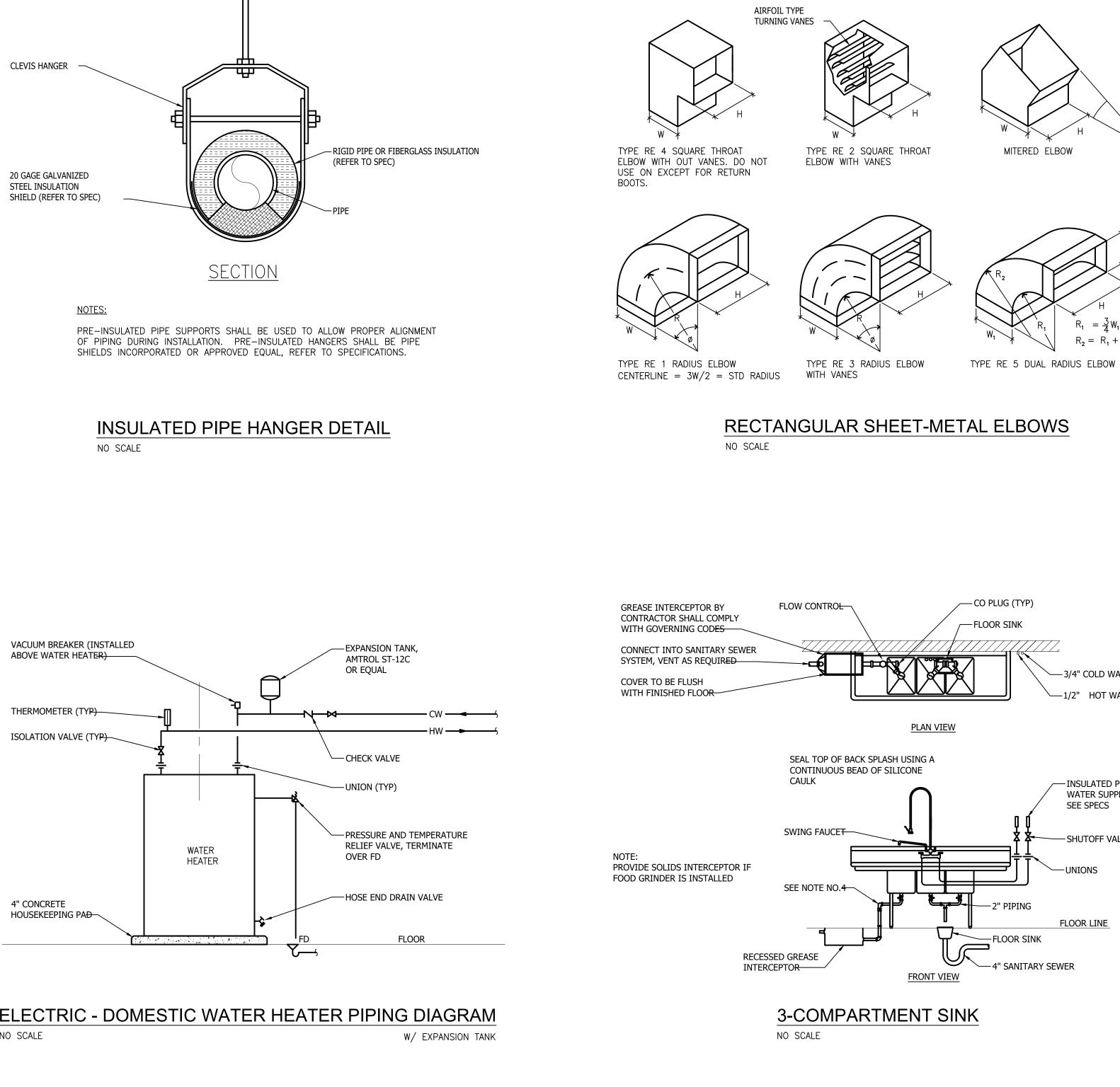




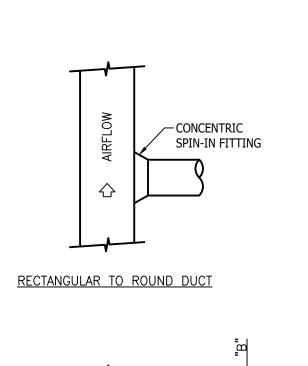


ELEVATION

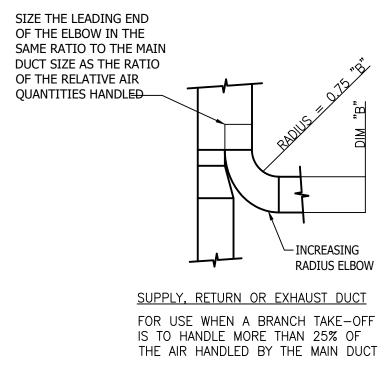


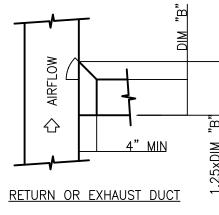


NO SCALE



<u>SUPPLY DUCT</u>





RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS NO SCALE

	DOMESTIC WATER HEATER SCHEDULE (ELECTRIC TANK TYPE)												
UNIT ID	LOCATION/ AREA SERVED	STORAGE CAPACITY (GAL)	FUEL TYPE	INPUT (KW)	RECOVERY AT 100°F (GPH)	ELECTRICAL MOCP FLA VOLTS PHASE			E FURN. BY	DISCONNE INST. BY	CT TYPE	MANUFACTURER/ MODEL NO.	
WH-1	SERVERY	50	ELECTRIC	15.0	74	-	41.6	208	3	EC	EC	-	BRADFORD WHITE E32-50S-3

	PLUMBING FIXTURE SCHEDULE												
TAG	BARRIER	ITEM	PIPE CONNECTION SIZES				MANUFACTURER &	ACCESSORIES					
TAG	FREE		WASTE	VENT	CW	HW	MODEL NO.	ACCESSORIES					
FD-1	-	FLOOR DRAIN W/ TRAP PRIMER	3"	-	-	-	ZURN: Z415-BZ1						
FS-1	FS-1 - FLOOR SINK		3"	1 1/2"	-	-	ZURN: ZB-1910						
EWC-1	Y ELECTRIC WATER COOLER WITH BOTTLE FILLER - 2" 1 1/2 1/2" - FILTERED		-	ELKAY: LZS8WSLP	PROVIDE WITH CANE APRON.								

NOTES:

1. SUPPLY ALL FIXTURES WITH LOOSE KEY STOPS.

2. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.

3. PROVIDE CARRIERS FOR ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS.

4. WHERE REQUIRED AND WHERE DESIGNATED, FIXTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE TO THE LATEST EDITION OF "THE BARRIER" FREE DESIGN REQUIREMENTS OF THE STATES CONSTRUCTION CODE.

5. ALL FIXTURES SHALL MEET STATE DEPT. OF PUBLIC HEALTH REQUIREMENTS, AND SHALL BE SUITABLE FOR FOOD PREPARATION AREAS.

6. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION/MOUNTING HEIGHT OF ALL FIXTURES.

	GRILLE, REGISTER AND DIFFUSER SCHEDULE										
UNIT ID	FACE SIZE	NECK SIZE	MOUNTING	FINISH	MATERIAL	PRICE/ MODEL NO.	REMARKS				
S-1	24x24	SEE PLANS	CEILING	WHITE	STEEL	SPD					
E-1	24x24	SEE PLANS	CEILING	WHITE	STEEL	PDDR					

NOTES: 1. COORDINATE WITH LIGHTING AND FRAME TYPE ACCORDINGLY WITH ARCHITECTURAL CEILING LAYOUT.

GREASE INTERCEPTOR SCHEDULE										
			DIMENSIONS (INCH		GREASE CAPACITY	FLOW RATE				
ACCESSORIES	MODEL NO.	WIDTH	LENGTH	HEIGHT	(LBS)	GPM		UNIT ID		
PROVIDE HEAVY DUTY COVER / PORT.	GB2	35	23	13.75	130	35	GI-1			

<u>NOTES:</u> 1. MODEL NUMBER IS SCHIER GREAT BASIN UNLESS OTHERWISE NOTED. 2. PROVIDE ALL ACCESSORIES FOR RECESSED FLOOR INSTALLATION.

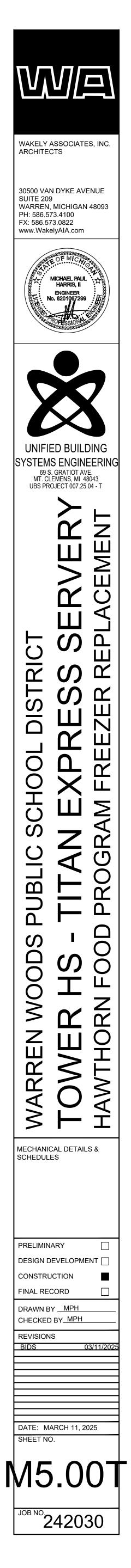
3. 3" THREADED INLET/OUTLET.

REMARKS

S	

S				

AND CLEANOUT



LUMINAIRE SCHEDULE					
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	MANUFACTURER(S)	LAMP SOURCE	WATTS
	A	2'x4' EDGE LIT FLAT PANEL LED LUMINAIRE. A FULLY LUMINOUS APPEARANCE GLARE FREE. SUITABLE FOR RECESS MOUNTING IN LAY-IN TYPE GRID CEILING, ALUMINUM FRAME WITH SATIN WHITE LENS, 4000 LUMENS, ELECTRONIC DRIVER, 4000K. 0-10V DIMMING CAPABLE, UNIVERSAL VOLTAGE.	 LITHONIA CPX-2X4 4000LM80CRI40KSWLMIN100MV0LT COOPER LIGHTING COLUMBIA LIGHTING 	80CRI 4000 LUMENS	38.9
Ю	B	6.5" DEDAL WALL MOUNTED DECORATIVE FIXTURE WITH FRONT WALL MOUNT GOOSENECK ARM. MATTE WHITE FINISH. 1500 LM, 0–10V DIMMING CAPABLE, 4000K.	 SPECTRUM LIGHTING ET60GV-15L-40K- D010X-PA16-MWI-MW COOPER LIGHTING COLUMBIA LIGHTING 	4000 LUMENS	25
⊗	\propto	EXIT LIGHT EMERGENCY LIGHT SHALL BE UNIVERSAL MOUNT, DIECAST ALUMINUM, HIGH OUTPUT LED DIFFUSE LIGHT PANEL, RED LETTERS WITH MAINTENANCE FREE NICKEL CADIUM BATTERY CAPABLE OF PROVIDING 90 MINUTE FULL LIGHT OPERATION.	1. LITHONIA LQM SERIES 2. SURE-LITES CX SERIES	120–277V	2.3
°	Æ	SAME AS TYPE # EXCEPT THIS FIXTURE WILL BE PROVIDED WITH AN INTERNAL BATTERY PACK. WIRE SUCH IT OPERATES NORMALLY WITH A SWITCH AND AS AN EMERGENCY LIGHT UPON LOSS OF POWER.			

LIGHTING SYMBOL LIST

DESCRIPTION SYMBOL LIGHT FIXTURE – CEILING/GRID MOUNT LIGHT FIXTURE – INTERIOR WALL MOUNT LINEAR $\hat{\bigcirc}$ LIGHT FIXTURE – DOWNLIGHT WITH WALLWASH DIST. LIGHT FIXTURE – INTERIOR WALL SCONCE \bigcirc OH LIGHT FIXTURE – INTERIOR WALL MOUNTED LIGHT FIXTURE – INTERIOR PENDANT MOUNT \oplus ۲ LIGHT FIXTURE – INTERIOR PENDANT MOUNT CYLINDER <---TRACK AND TRACK MOUNTED LIGHT FIXTURES EXIT LIGHT – CEILING MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES \otimes FACE(S) OF FIXTURE) EXIT LIGHT – WALL MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE) EMERGENCY LIGHT FIXTURE – EMERGENCY BATTERY UNIT EMERGENCY LIGHT FIXTURE – BATTERY UNIT/EXIT SIGN $4 \otimes 2$ LIGHT FIXTURE – EXTERIOR POLE MOUNT TYPE ⊶□ P LIGHT FIXTURE – EXTERIOR WALL MOUNT TYPE X LIGHT FIXTURE – EXTERIOR POST TOP TYPE \odot LIGHT FIXTURE – EXTERIOR BOLLARD TYPE

NOTES: 1. LIGHTING SYMBOLS AS INDICATED ON PLANS ARE NOT DRAWN TO SCALE UNLESS NOTED OTHERWISE.

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
\$	SWITCH SINGLE POLE
\$ ₀	OCCUPANCY SENSOR SWITCH
\$ _v	VACANCY SENSOR SWITCH
\$ _D	LOW VOLTAGE DIMMER SWITCH
\$ _{VD}	VACANCY DIMMER SENSOR SWITCH
03	CEILING MOUNTED OCCUPANCY SENSOR
VS	CEILING MOUNTED VACANCY SENSOR
\$ ₃	SWITCH THREE-WAY
\$ _κ	SINGLE POLE KEY SWITCH

CONTAC

	DISCON
	DISCON
4	DISCON
	ELECTR
	ELECTR
$\textcircled{\bullet}$	GROUN
Ē	GROUN
	GROUN
J	JUNCTI
	JUNCTI
Μ	METER
\mathbf{V}	MOTOR
\mathbf{i}	MOTOR
\$м	MOTOR
φ	POWER
φ	POWER
\oplus	POWER
	POWER
+	POWER
Φ	POWER
\bigcirc	POWER
SPD	SURGE
TC	TIME C
Т	TRANSF
VSD	VARIAB

AUXILIARY

SYMBOL	DESCRIPTION				
$\Box \forall$	CAMERA				
CR	CARD READER				
	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER				
	COMMUNICATIONS DEVICE - FLOOR				
▼	COMMUNICATIONS DEVICE - WALL				
DH	MAGNETIC DOOR HOLDER				
●	PUSH BUTTON				
S	SPEAKER				
ΗĊ	WALL CLOCK – SINGLE FACE				
$\vdash \bigoplus$	WALL CLOCK – DOUBLE FACE				
\bigcirc S	WALL CLOCK AND SPEAKER UNIT				
CONDUIT FOF LOW VOLTAGE SPECIFICATIO	CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND R ALL DEVICES INDICATED. E CONTRACTOR SHALL PROVIDE EXACT NS AND LOCATIONS OF ALL DEVICES. E ALARM SYMBOL LIST				
SYMBOL	DESCRIPTION				
Ś	DETECTION DEVICE	0			
< <u>\$</u>	DETECTION DEVICE - DUCT MOUNTED	S			
(FS)	DETECTION DEVICE - FLOW SWITCH				
(TS)	DETECTION DEVICE - TAMPER SWITCH				
FAA	FIRE ALARM ANNUNCIATOR PANEL				
FACP	FIRE ALARM CONTROL PANEL				
√FD	FIRE DEPARTMENT COMMUNICATION OUTLET				

$\Box \forall$	CAMERA	
CR	CARD READER	
	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER	
	COMMUNICATIONS DEVICE - FLOOR	
▼	COMMUNICATIONS DEVICE - WALL	
DH	MAGNETIC DOOR HOLDER	
●	PUSH BUTTON	
S	SPEAKER	
НÜ	WALL CLOCK – SINGLE FACE	
$\vdash \bigoplus$	WALL CLOCK – DOUBLE FACE	
\bigcirc S	WALL CLOCK AND SPEAKER UNIT	
	E ALARM SYMBOL LIST	
SYMBOL	DESCRIPTION	
$\langle \hat{S} \rangle$	DETECTION DEVICE	~
Ś –	DETECTION DEVICE - DUCT MOUNTED	S
FS	DETECTION DEVICE - FLOW SWITCH	
TS	DETECTION DEVICE - TAMPER SWITCH	
FAA	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
\bigtriangledown FD	FIRE DEPARTMENT COMMUNICATION OUTLET	
F	MANUAL DEVICE – PULL STATION	
F	NOTIFICATION DEVICE - WALL MOUNTED	
Ę	NOTIFICATION DEVICE - CEILING MOUNTED	

NOTES: 1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

POWER SYMBOL LIST

	POWER SYMBOL LIST	ELE
SYMBOL	DESCRIPTION	ABBREV.
•	CONDUIT DOWN	AFF
0	CONDUIT UP	А
С	CONTACTOR	AF
	DISCONNECT SWITCH - NON FUSED	AWG
L	DISCONNECT SWITCH - FUSED	AT
4	DISCONNECT SWITCH - COMB. MOTOR STARTER	ATS
	ELECTRICAL PANEL – 208/240 VOLTS	AIC
	ELECTRICAL PANEL – 480 VOLTS	С
ullet	GROUNDING ROD	СВ
Ē	GROUND	CU
	GROUNDING BAR	СТ
U	JUNCTION BOX	DIA
J	JUNCTION BOX WITH HARDWIRED CONNECTION	DISC
Μ	METER	EMT
\mathcal{A}	MOTOR – SINGLE PHASE	EWC
O	MOTOR – THREE PHASE	EPO
\$м	MOTOR RATED SWITCH	(E)
φ	POWER RECEPTACLE – SIMPLEX TYPE	FA
φ	POWER RECEPTACLE – DUPLEX TYPE	FACP
\oplus	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER	FLA
	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE	F
+	POWER RECEPTACLE – QUADRUPLEX TYPE	G/GRD
Φ	POWER RECEPTACLE – RECESSED FLOOR TYPE	GFCI/GFI
\heartsuit	POWER RECEPTACLE – SPECIALTY TYPE	HOA
SPD	SURGE PROTECTION DEVICE	HP
TC	TIME CLOCK	IG
Т	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	KV
VSD	VARIABLE SPEED DRIVE	KVA
NOTES:		KW
1. ALL DEVICE AND SCHE	E RATINGS/SIZES SHALL BE COORDINATED WITH PLANS DULES.	KWH
		LP
		MCB
AUXI	LIARY SYST. SYMBOL LIST	MDP
SYMBOL	DESCRIPTION	MLO

ELECTRICAL ABBREVIATIONS

	I NICAL ADDREVIATIONS
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	
	AVAILABLE INTERRUPTING CURRENT (AMPS)
С	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
	FULL LOAD AMPS
F	FUSE
	GROUND
	GROUND FAULT CIRCUIT INTERRUPTER
,	
	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N/NEU	NEUTRAL
	NON-FUSIBLE
	NORMALLY CLOSED
NO	
	NOT IN CONTRACT
	OWNER FURNISHED / CONTRACTOR INSTALLED
	OWNER FURNISHED / OWNER INSTALLED
PH. OR Ø	
	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHOLRIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
SPEC/SPECS	SPECIFICATIONS
TBB	TELEPHONE BACKBOARD
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
w WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING INDEX

DRAWING NOTATION

SYMBOL

DESCRIPTION

SHT NO	DESCRIPTION		
E0.00T	ELECTRICAL GENERAL INFORMATION & LIGHTING SCHEDULE		
E1.00T	ELECTRICAL COMPOSITE PLAN		
EP4.01T	ENLARGED ELECTRICAL POWER DEMOLITION & NEW WORK FLOC		
EL4.01T	ENLARGED ELECTRICAL LIGHTING DEMOLITION & NEW WORK FL		
E6.00T	ELECTRICAL PANEL SCHEDULES & DETAILS		
E7.00T	ELECTRICAL ONE-LINE DIAGRAMS		

LIGHTING FIXTURE TAG LA (1)CONSTRUCTION KEY NOTE NUMBER 1 1DEMOLITION KEY NOTE NUMBER 1 FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET) 1EQUIPMENT DESIGNATION, (I.E. EXHAUST FAN NUMBER 1) <u>EF-1</u> ------ EXISTING DEVICES OR EQUIPMENT ----- NEW OR MODIFIED UNDERGROUND WIRING SHIM EXISTING SYSTEM COMPONENT TO BE REMOVED -SECTION NUMBER 4 SHEET E5.2 ON WHICH SECTION IS DRAWN SECTION NO. 6 SECTION SCALE: 1/4" = 1' - 0"E5.2 SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR) LIGHTING CONTROL TAG SCENE SCHEDULE ID 'A' LIGHTING CONTROL 1A DAYLIGHTING CONTROL SPACE TYPE '1'-----ZONE '1' (MAY NOT APPEAR ON EVERY TAG) APPLICABLE CODES AND REGULATIONS YEAR CODE 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE 2023 MICHIGAN ELECTRICAL CODE RULES, PART 8 2023 NATIONAL ELECTRICAL CODE (NFPA 70) 2013 NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 2013 NATIONAL FIRE ALARM AND SIGNALING CODE, NFF

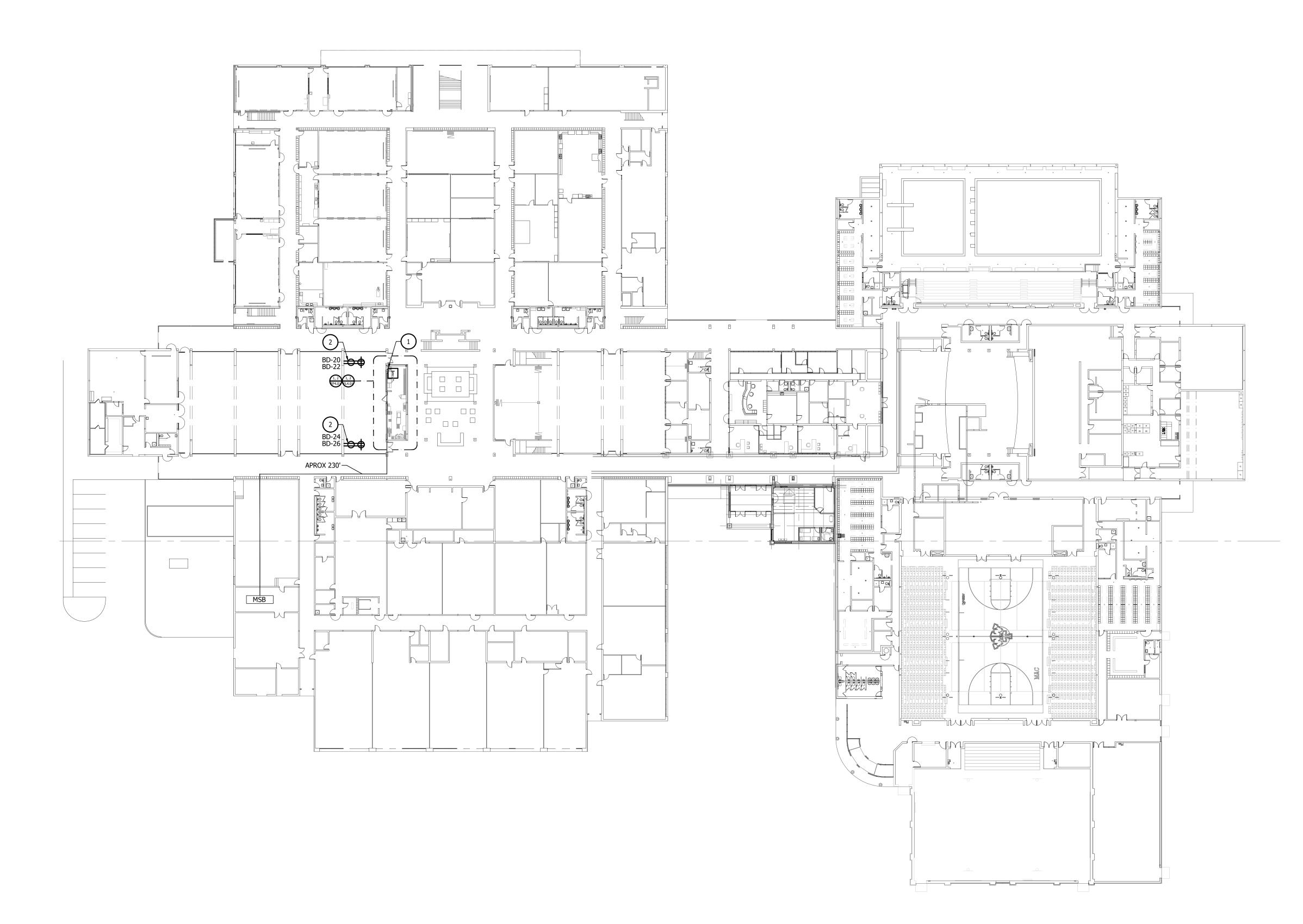
2012 LIFE SAFETY CODE, NFPA 101

WA AR 305 SU WA PH FX	AKELY CHITE 500 VAI ITE 209 ARREN : 586.5 : 58	N DYKE AVI	ENUE
SY	STEM 69 S MT. CL UBS PR	ED BUILL S ENGINE C. GRATIOT AV OJECT 007.25	REPLACEMENT TABLES OF THE REPLACEMENT THE REPL
ELE	ORMA	TOWER HS - TITAN EXPRES	
PR DE CO FIN DR CH RE BII		ARY DEVELOPME JCTION CORD Y PG D BY TJO IS (ARCH 11, 2	D25

ork floor plans
Work Floor Plan

20		
FPA 7	2	

2013 STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS, NFPA 110 2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES





ELECTRICAL COMPOSITE PLAN SCALE: 1/32" = 1'-0"

	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT C DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIP BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNE REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRES BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITION SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL C INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE RE COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGEF SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-EN AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY D GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EX RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXIS UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTIONS STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EX UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLAN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVA REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FRO WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION REQUIRED TO MATCH EXISTING.

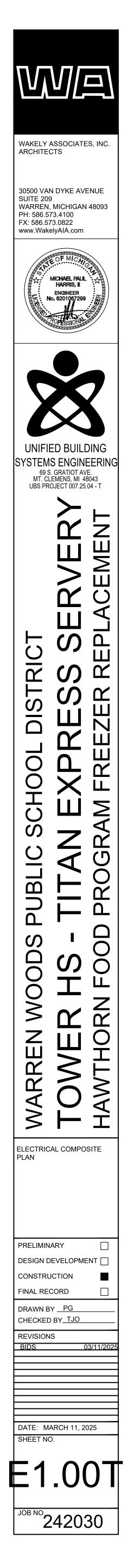
POWER GENERAL NOTES THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXE HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WELL STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED BUILDINGS, AND REQUIREMENTS OF THE OWNER. EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED B ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES C AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCO WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYS TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION PROJECT IS DELIVERED TO THE OWNER. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND A FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, D INSPECTION FEES. ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STAT LOCAL CODES AND ORDINANCES. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, F OTHERWISE NOTED.

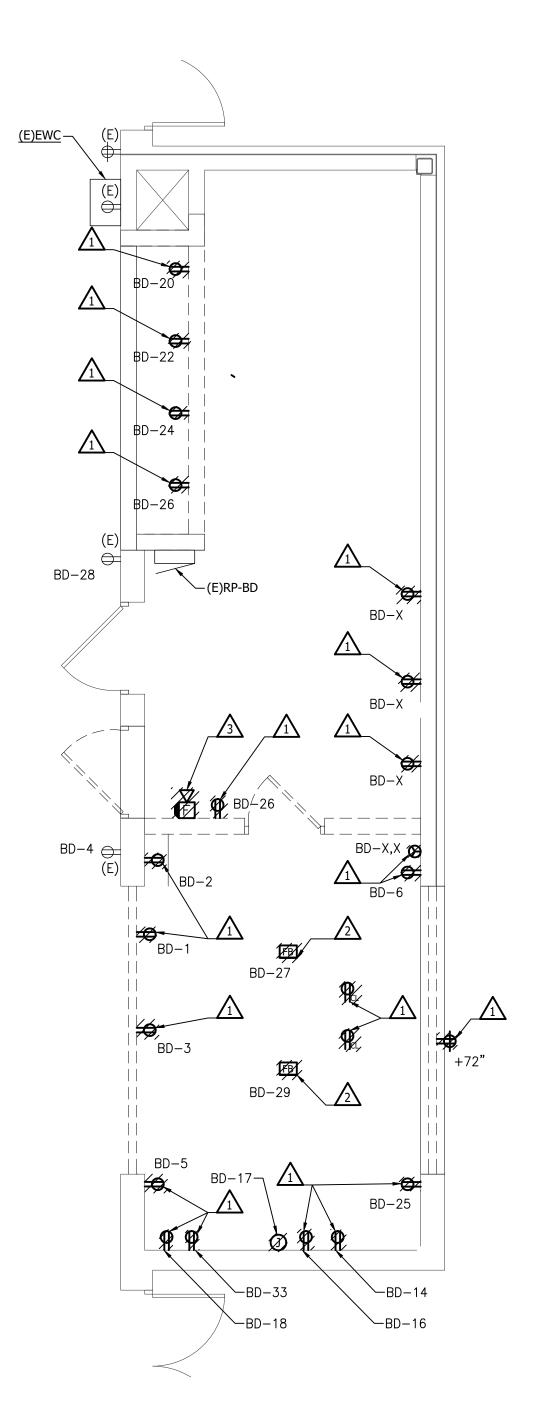
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CC MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCE
Н	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUI FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVID CONTRACTOR.
J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH FOR FURTHER INFORMATION.

	LIGHTING GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHA DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT S PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERAT
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT T BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AN NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCRE
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSUL CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPM REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. G CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATE OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING L THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTIN
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LO EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMA DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOL CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH
J	ALL SWITCHES SHALL BE WHITE WITH BRUSHED SILVER COVERPLAT

\otimes	NEW WORK KEYED NOTES
1	NEW TRANSFORMER ABOVE KITCHEN IN STORAGE ROOM. REFER TO DIAGRAM FOR SIZING.
2	PROVIDE NEW V2000 RACEWAY FOR VENDING MACHINES. VERIFY E LOCATION WITH OWNER PRIOR TO INSTALLATION. CIRCUIT AS SHO SPARE BREAKER MADE AVAILABLE IN DEMOLITION. REFER TO DETA E6.00

S	
GENERAL DF	
PMENT SHALL ER'S SENT	
VISIT THE ONS, DF ANY	
EMOVED RS,	
EQUIPMENT	
ON, PRIOR TO KISTING NS HAS BEEN	
ATION AND	
DURING N AS	
e general Kecute all L applicable	
L AFFLICABLE L AS THE ED FOR THE	
BY THE OF OPTIONS ORDANCE	
STEMS ARE ON WHEN	
Approval Pay all	
T NATIONAL TE AND	
GHALL BE UNLESS	
NDUIT ALED.	
E #12 AWG, PMENT, ED BY THIS	
DRAWINGS	
AL EXTENT OF IALL BE	
SHALL BE ESENTATIVE TION.	
THE SITE AND ND UTILITIES. REPANCIES.	
D COMPLETELY LATION,	
Ment Being General Fed and	
UTILITIES IN ING WORK.	
g Unless Ocated Per 5 Field	
IAGE. WHERE DLITION, THE H EXISTING.	
ATE.	
O ONE LINE	
EXACT IOWN TO	
AIL #5 ON	





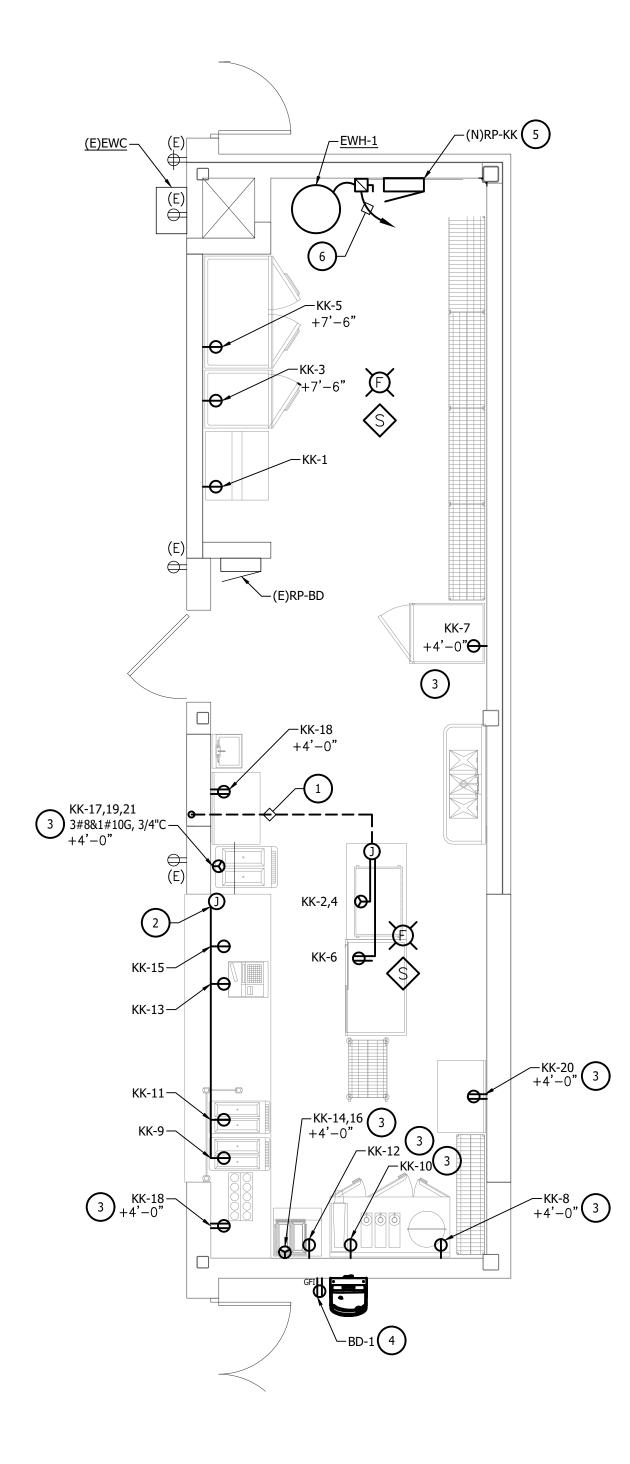


 $\underbrace{1}_{E1.00} \bigoplus \underbrace{\text{ENLARGED ELECTRICAL POWER DEMOLTION FIRST FLOOR PLAN}}_{\text{SCALE: 1/4"} = 1'-0"}$

	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

\bigtriangleup	DEMOLITION KEYED NOTES
1	DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES. REMOVE COMPLETE CONDUIT AND WIRING BACK TO SOURCE. RETAIN BREAKERS AS SPARES, UPDATE PANEL SCHEDULES.
2	FLOORBOX TO BE REMOVED COMPLETE. TAKE CONDUIT AND WIRING BACK TO SOURCE.
3	FIRE ALARM DEVICES TO BE REMOVED COMPLETE. REFER TO NEW WORK PLANS FOR NEW DEVICE.





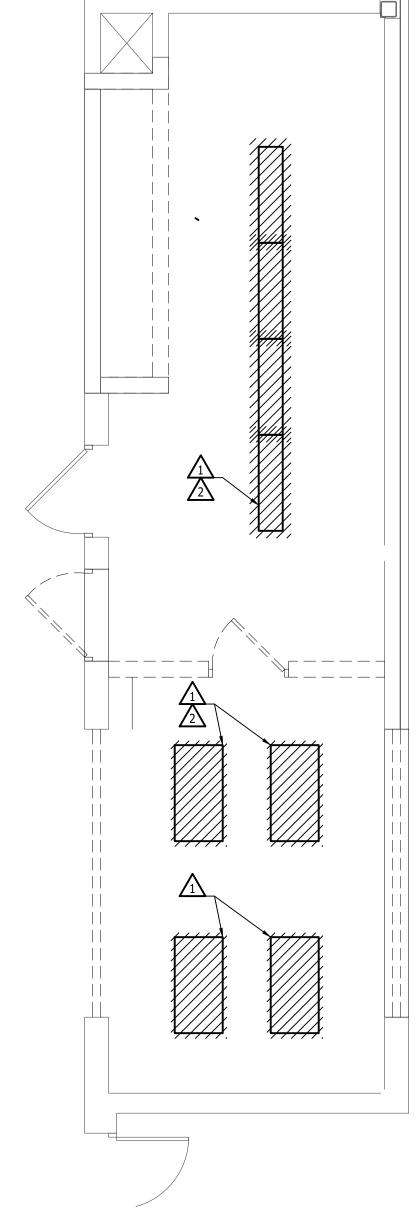
	POWER GENERAL NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
Н	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.
К	NEW POWER ON EXISTING TO REMAIN WALLS SHALL BE RAN IN LEGRNAD WIREMOLD V2000 OR SIMILAR. NEW POWER AND DATA ON EXISTING TO REMAIN WALLS SHALL BE RAN IN LEGRAND WIREMOLD V4000 OR SIMILAR.
L	ALL RECEPTACLES 150V TO GROUND OR LESS THAT ARE SINGLE PHASE 50 AMPS OR LESS, AND THREE PHASE 100A OR LESS THAT ARE INSTALLED IN BATHROOMS, KITCHENS, ROOFTOPS,OUTDOOR,INDOOR WET LOCATIONS, LOCKER ROOMS GARAGES,CRAWLSPACES,UNFINISHED UNOCCUPIED BASEMENTS, AND WITIN 6 FEET OF THE TOP INSIDE EDGE OF SINK BOWLS SHALL BE GFCI PROTECTED.GFCI PROTECTION SHALL BE READILY ACCESSIBLE

\mathbf{X}	NEW WORK KEYED NOTES
1	PROVIDE 1" CONDUIT RUNNING DOWN TO THE FLOOR AND OUT TO NEW WORKTABLE FLOOR RECEPTACLES. REFER TO DETAIL 4 ON E6.00
2	PROVIDE 3/4" CONDUIT RUNNING DOWN TO SERVICING COUNTER AND OUT TO RECEPTACLE MOUNTED INSIDE OF COUNTER.
3	ROUTE CONDUIT IN EXISTING BLOCK WALL DOWN TO DEVICE. CONTRACTOR TO NOTCH EXISTING BLOCK WALL AS REQUIRED FOR ARCHITECTURAL TILE COVERING
4	RUN NEW WIRE AND CONDUIT FOR NEW DRINKING FOUNTAIN GFCI RECEPTACLE. RECEPTACLE SHALL BE READILY ACCESSIBLE. CIRCUIT AS SHOWN TO SPARE BREAKER MADE AVAILABLE IN DEMOLITION.
5	NEW 42 CIRCUIT 208/120V PANEL RP-KK TO BE INSTALL TO SUPPORT KITCHEN EQUIPMENT; FED FROM NEW TRANSFORM IN STORAGE ABOVE KITCHEN. REFER TO ONE-LINE DIAGRAM FOR SIZING.
6	NEW WATER HEATER, PROVIDE 60A 3P 240V WP SWITCH, RUN 3#6&1#10G 3/4"C TO RP-KK-22,24,26. REFER TO PANEL SCHEDULE.

2 E1.00 ENLARGED ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"



- GENERAL CUTE ALL APPLICABLE AS THE D FOR THE Y THE F OPTIONS RDANCE TEMS ARE DN WHEN .PPROVAL AY ALL NATIONAL ſE AND ALL BE NLESS UIT #12 AWG, MENT, D BY THIS AWINGS IN LEGRNAD KISTING TO OR E PHASE RE R,INDOOR INFINISHED ISIDE EDGE N SHALL BE NEW ND OUT TO
- ACTOR TO LE COVERING RECEPTACLE. SPARE Kitchen N. Refer to



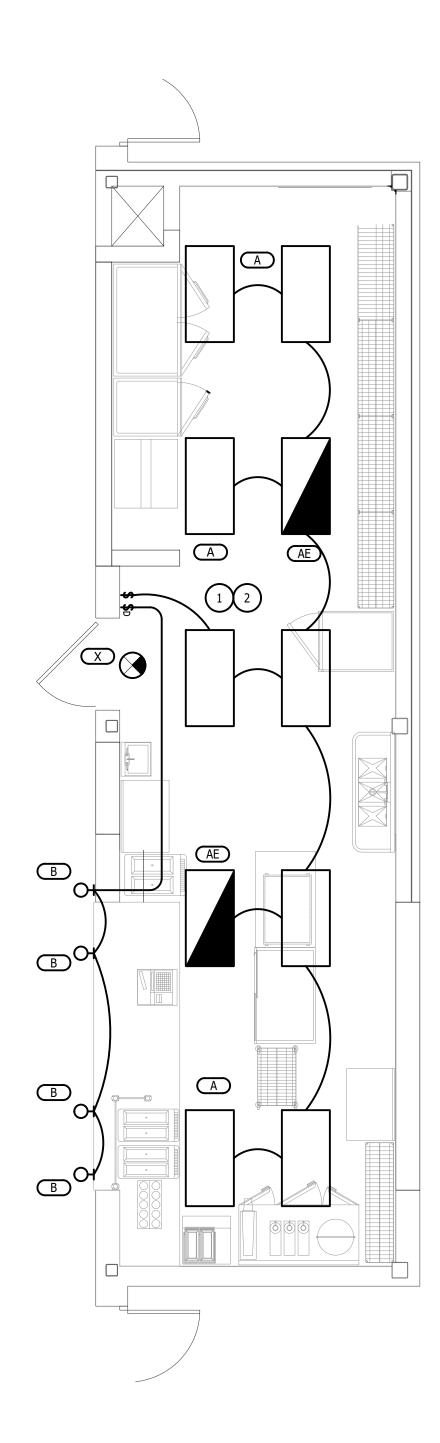


 $\underbrace{1}_{E1.00} \bigoplus \underbrace{\text{ENLARGED ELECTRICAL POWER DEMOLTION FIRST FLOOR PLAN}}_{\text{SCALE: 1/4"} = 1'-0"}$

	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

\bigwedge	DEMOLITION KEYED NOTES
1	EXISTING LIGHT FIXTURES TO BE REMOVED COMPLETE. REMOVE CONDUIT AND WIRING BACK TO JUNCTION BOX FEEDING THIS AREA. PREPARE FOR CONNECTION TO NEW LIGHTING FROM JUNCTION BOX AS INDICATED ON NEW WORK PLANS.
2	EXISTING SWITCHES AND LOW VOLTAGE CONTROL SENSORS TO BE REMOVED COMPLETE. PATCH AND PAINT AS REQUIRED.

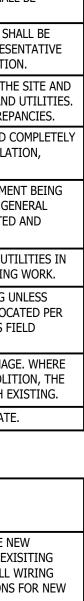




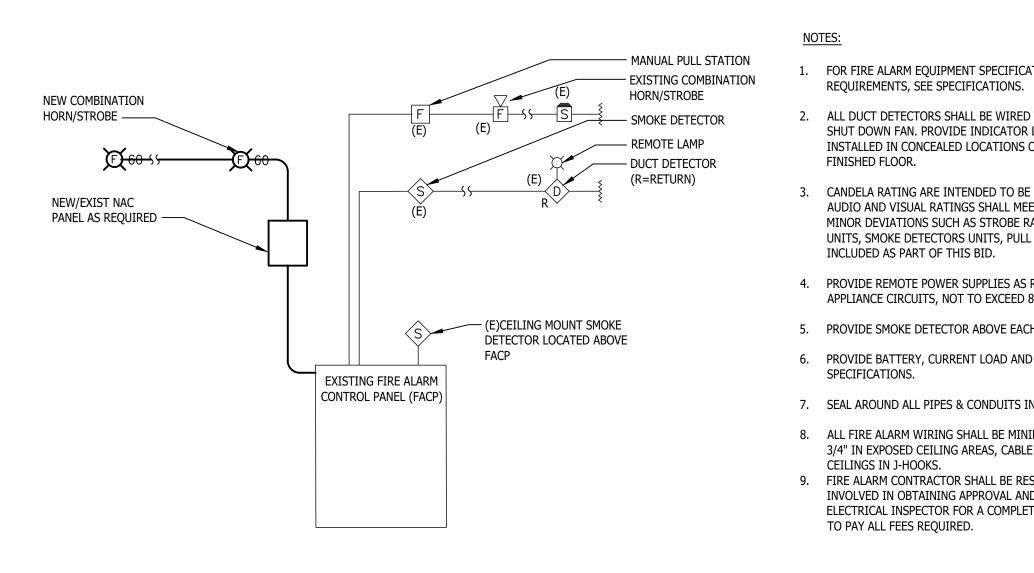
	LIGHTING GENERAL NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	ALL SWITCHES SHALL BE WHITE WITH BRUSHED SILVER COVERPLATE.
(X)	NEW WORK KEYED NOTES
1	NEW LED FIXTURES IN THIS AREA TO REPLACE EXISTING. PROVIDE NEW CONTROL SENSORS AND LV SWITCHING AS SHOWN, CONNECT TO EXISITING CIRCUIT AVAILABLE AS A RESULT OF DEMOLITION IN THE AREA. ALL WIRING AND CONDUIT SHALL BE NEW. RE-USE EXISTING SWITCH LOCATIONS FOR NEW SWITCHES.
2	NEW FIXTURES WITH BUILT-IN BATTERY BACK UP. WIRE SUCH THAT FIXTURES TURN ON NORMAL WITH SWITCHES AND STAY ON AS EMERGENCY POWER UPON LOSS OF POWER. HATCHED FIXTURES SHALL BE WIRED AHEAD OF LOCAL SWITCH.

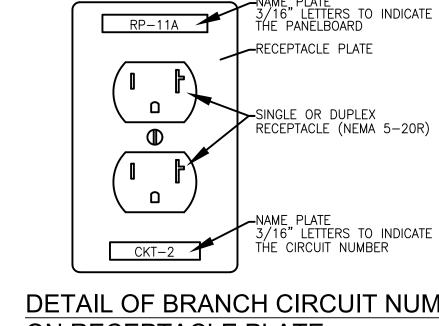
2 E1.00 ENLARGED ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"

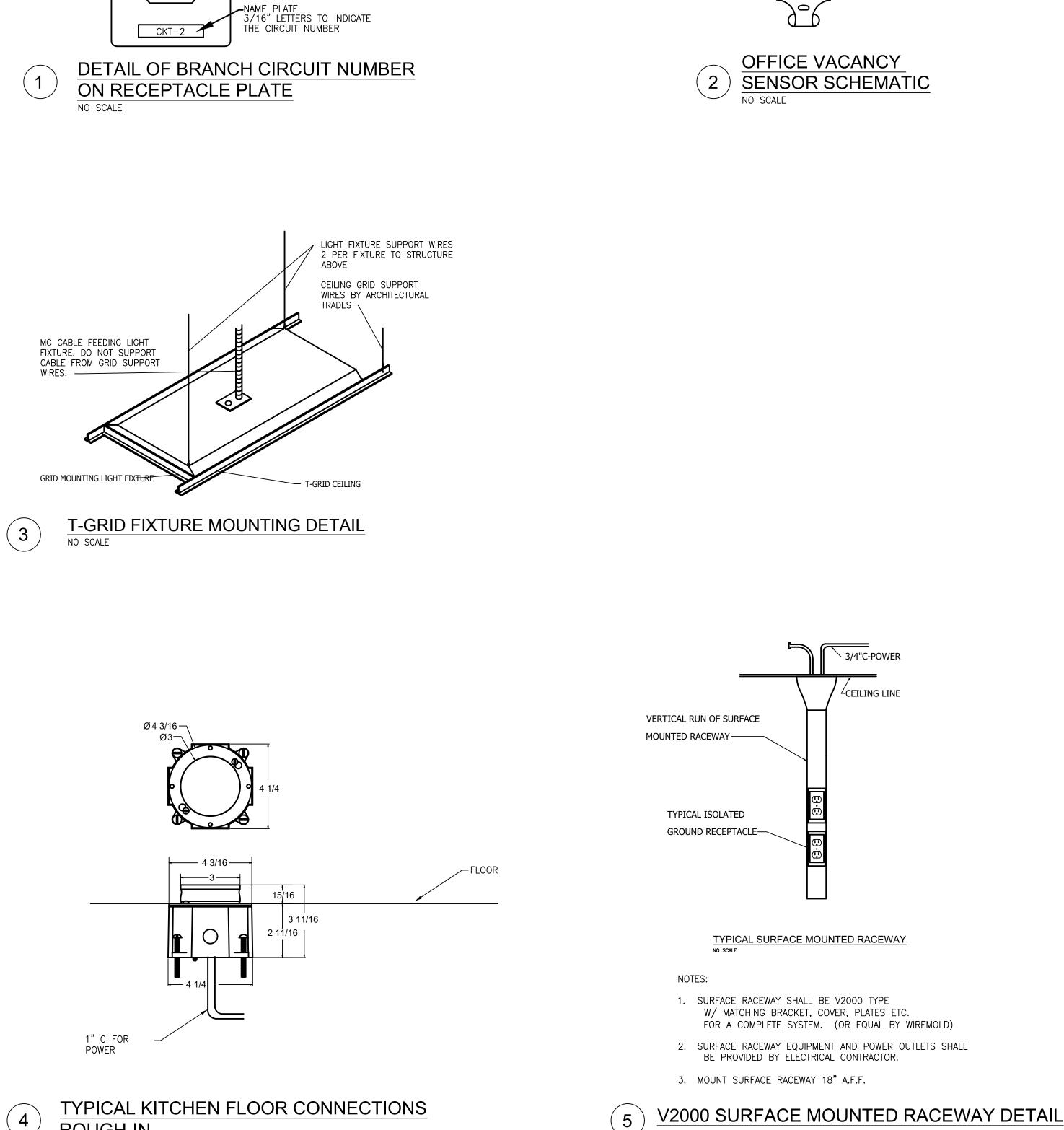




Panel Designation: (NI)PD KK					Main: 200M CP					P P V	(alta ao	200			
Panel Designation: (N)RP-KK Panel Location: KITCHEN						Main: 200MCB Bussing: 200A					P-P Voltage: 208 P-N Voltage: 120				
													P-N V		
	ed From: SEE ON				G	round								Phase:	
Fee	der Size: SEE ON	E LINE DI	AGRAM			Mou				Έ				Wire:	1010#2
						Ne	utral:	100	0%		M	in SC Int	errupting	Rating:	XXX
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	СКТ	ØØ	Ø	СКТ	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
1 MILK COOLER			828		20	1	X		2	20	1071	-			#9 SANDWICH SLIDE
#2 REACH-IN FREEZER			1440		20	3	X		4	20	1071				#7 SANDWICH SLIDE
#3 REACH-IN REFRIGERATOR			1680		20	5		X	6	20		780			#10 BEVERAGE REFRIGERATOR
#5 HOT CART			2	1440	20	7	X		8	20	1680	2			#15 PRETZEL CABINET
#23 SLUSHIE MACHINE 1				1440	20	9	X		10	20		504			#17 WORKTOP REFRIGERATOR
#23 SLUSHIE MACHINE 2				1440	20	11		X	12	20		1680			#20 ICE MAKER
#25 POS		1800			20	13	X		14	20	1560				#21 COFFEE MAKER
ECO CONIVENCE RECEPTACLE		180			20	15	X		16	20	1560	-			
			8	3598		17		X	18	20		14	360		DCO CONCIVENCE RECEPTACLES (2)
#27 YOGURT MACHINE				3598	40	19	X		20	20			180		DCO CONCIVENCE RECEPTACLE (1)
		2	9)	3598	1	21	X		22		4990				
SPARE			5		20	23		X	24	55	4990	-			EWH-1
SPARE					20	25	X		26		4990				
SPARE					20	27	X		28	35					SPARE
SPARE					20	29		X	30	35					SFARE
SPARE					20	31	X		32	15					SPARE
SPARE					20	33	X		34	15					SFARE
SPACE		8	ŝ.	-	F	35		X	36			2			SPACE
SPACE		6 () ()	43	-		37	X		38		-	è.			SPACE
SPACE		0	9			39	X		40						SPACE
SPACE						41		X	42						SPACE
					-										
			ted Load		-		Demo				C A	Demand		T . 1 . 1	-
Load Description Lighting or Continous Load (Volt-Amps)	ØA	ØB	ØC	Total			Fact				ØA	ØB	ØC	Total	4
180VA Receptacle Load (Volt-Amps)	0	0	0	0		1.00) (First		///	1	0	0	0	0	Percentaria Domand Factor per Article 200 44 - 6th-
TOUVA RECEPTACIE LOAA (VOIT-Amps)	1980	180	360	2520			$\frac{1}{10}$ (First				1980	180	360	2520	Receptacle Demand Factor per Article 220.44 of the
Continuous Load (Volt-Amps)		nount ove		0		0.3	1.0		4)		0	0	0	0	National Electrical Code.
Continuous Load (Volt-Amps) Non-Continuous Load (Volt-Amps)	828	1944	4140	6912			0.8				828	1944	4140	6912	4
Non-Continuous Load (Volt-Amps) Total Load (kVA)	14339	12659	10028	37027	10507	of Lig			nd P	cont	11472	10128	8023	29622	4
	17.15	14.78	14.53	46.46	1.1011.0011.00000						14.28	12.25	12.52	39.05	4
Total Ampacity (Amps)	142.8	123.1	121.0	129.0		kVA) I					118.9	102.0	104.3	108.4	4
Minimum Feeder Sizing (Amps)	146.9	123.5	121.7	130.7	<	per NI	C Art	icle	215.2	>	123.0	102.4	105.0	110.1	







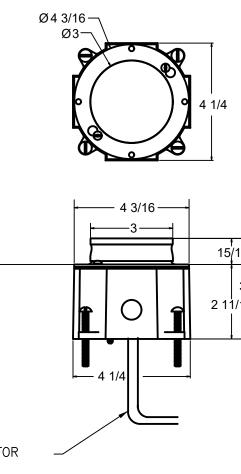
NO SCALE

. FOR FIRE ALARM EQUIPMENT SPECIFICATION AND ADDITIONAL

- 2. ALL DUCT DETECTORS SHALL BE WIRED TO ACTIVATE ALARM SYSTEM AND SHUT DOWN FAN. PROVIDE INDICATOR LIGHT WHERE SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS OR ARE MORE THAN 10FT. ABOVE THE
- 3. CANDELA RATING ARE INTENDED TO BE 15cd UNLESS NOTED OTHERWISE. ALL AUDIO AND VISUAL RATINGS SHALL MEET OR EXCEED NFPA REQUIREMENTS. MINOR DEVIATIONS SUCH AS STROBE RATING, MISSING OF AUDIO/VISUAL UNITS, SMOKE DETECTORS UNITS, PULL STATION, ETC. (MAX OF 10) SHALL BE
- 4. PROVIDE REMOTE POWER SUPPLIES AS REQUIRED FOR NOTIFICATION APPLIANCE CIRCUITS, NOT TO EXCEED 80% OF CAPACITY.
- 5. PROVIDE SMOKE DETECTOR ABOVE EACH REMOTE POWER SUPPLY PANEL. 6. PROVIDE BATTERY, CURRENT LOAD AND VOLTAGE DROP CALCULATIONS PER
- 7. SEAL AROUND ALL PIPES & CONDUITS IN MASONRY AND DRYWALL WALLS. 8. ALL FIRE ALARM WIRING SHALL BE MINIMUM #14 AWG AND IN CONDUIT MIN 3/4" IN EXPOSED CEILING AREAS, CABLE IS ACCEPTABLE ABOVE LAY-IN
- 9. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHARGES INVOLVED IN OBTAINING APPROVAL AND CERTIFICATION FROM STATE ELECTRICAL INSPECTOR FOR A COMPLETE SYSTEM. CERTIFIED CONTRACTOR

FIRE ALARM RISER NO SCALE

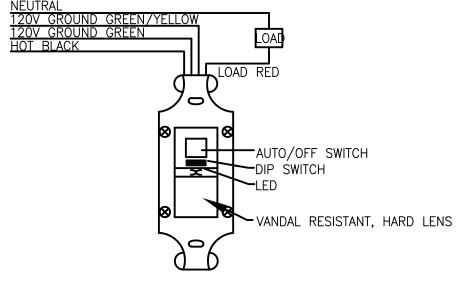
- 10. THE ELEVATION DIAGRAM IS FOR REFERENCE PURPOSES. EXACT QUANTITIES OF DEVICES AND LOCATIONS SHALL COMPLY WITH NFPA GUIDELINES AND MEET APPROVAL OF THE STATE ELECTRICAL INSPECTOR. FIRE ALARM CONTRACTOR SHALL HAVE SHOP DRAWINGS APPROVED BY THE STATE ELECTRICAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK.
- 11. FOR FIRE ALARM SYMBOL LEGEND SEE DRAWING E000.
- 12. PROVIDE COVER WITH SIREN FEATURE TO ALL FIRE ALARM MANUAL PULL STATION.
- 13. FIRE ALARM VENDOR TO PROVIDE INSTALLATION DRAWINGS AS PART OF SUBMITTALS.
- 14. THE FIRE ALARM SYSTEM SHOWN ON THE DRAWINGS AND SPECIFICATIONS ARE A PERFORMANCE SPECIFICATION SYSTEM WITH DEVICE LOCATIONS. FIRE ALARM VENDOR AND CONTRACTOR MUST PROVIDE A COMPLETE SYSTEM PER CODE.
- 15. ALL STROBES EXISTING AND NEW SHALL BE SYNCHRONIZED.

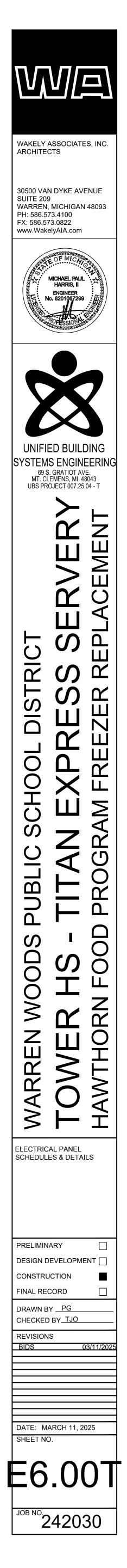


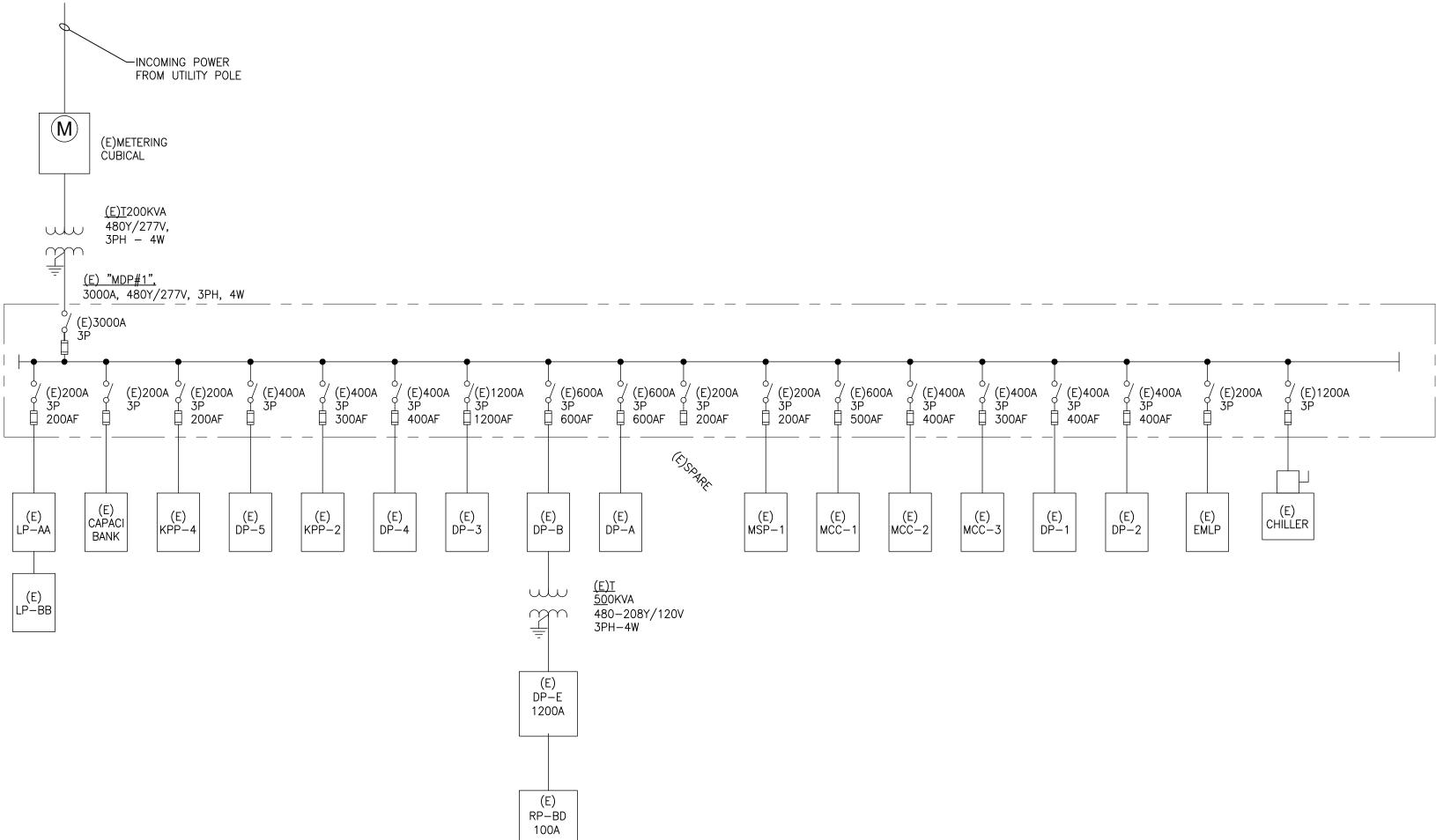


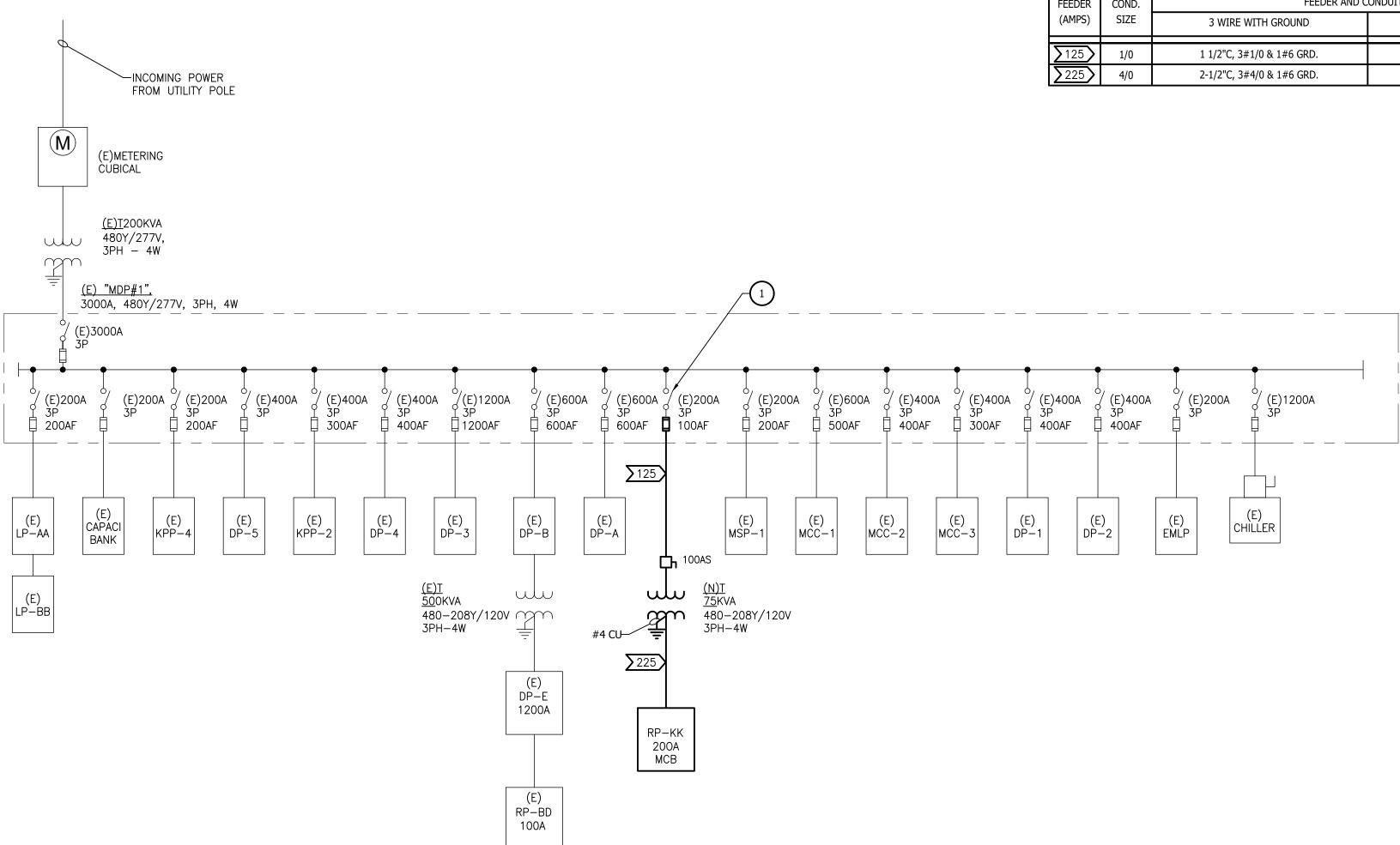
ROUGH-IN NO SCALE

NAME PLATE 3/16" LETTERS TO INDICATE THE PANELBOARD









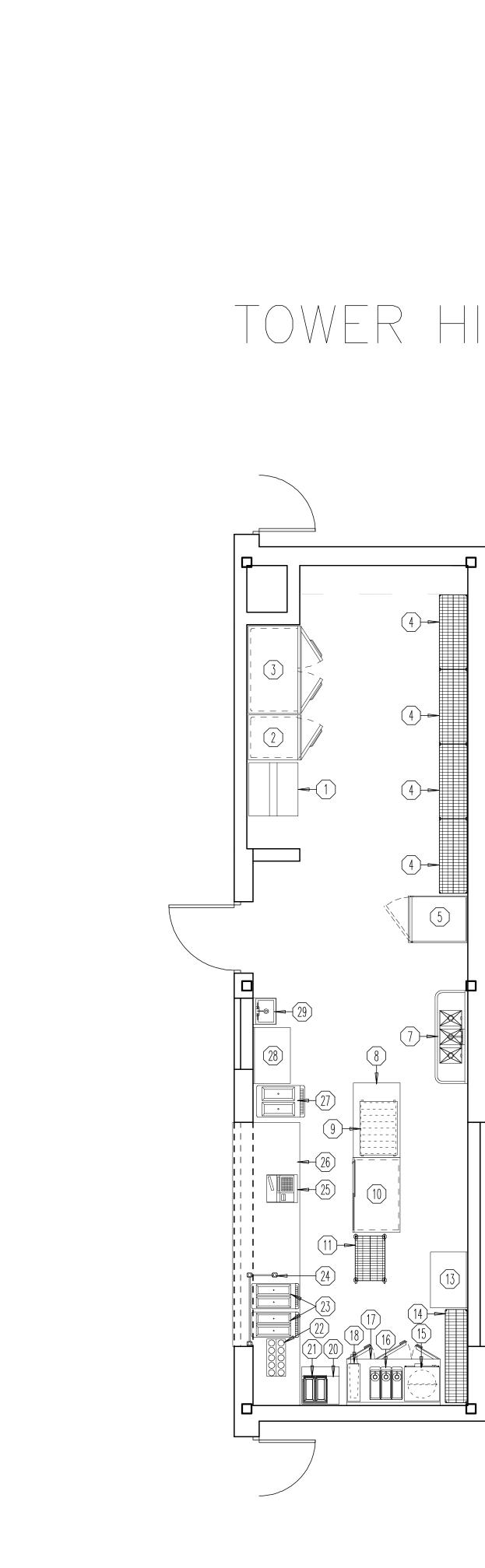
ELECTRICAL ONE-LINE DIAGRAM - NEW WORK

ELECTRICAL ONE-LINE DIAGRAM - EXISTING

FEEDER	COND.	FEEDER AND C	ONDUIT SIZES
(AMPS)	SIZE	3 WIRE WITH GROUND	4 WIRE WITH GROUND
1 25	1/0	1 1/2"C, 3#1/0 & 1#6 GRD.	1 1/2"C, 4#1/0 & 1#6 GRD.
225	4/0	2-1/2"C, 3#4/0 & 1#6 GRD.	2-1/2"C, 4#4/0 & 1#6 GRD.

X	NEW WORK KEYED NOTES
1	EXISTING SPARE 200A 3P SWITCH FUSED DOWN TO 100A TO BE USED FOR NEW TRANSFORMER AND RP-KK PANEL FEED AS SHOWN, PROVIDE NEW FUSES. REFER TO EP4.10 FOR LOCATIONS

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAIA.com OF MICHT MICHAEL PAUL HARRIS, II ENGINEER No. 6201067299 UNIFIED BUILDING SYSTEMS ENGINEERING 69 S. GRATIOT AVE. MT. CLEMENS, MI 48043 UBS PROJECT 007.25.04 - T \sim Ζ МШ Ш Щ M Q S SE REPLA E C DISTRIC ZER Ц М R E E SCHOOL PROGRAM PUBLIC A WOODS S TOWER H: WARREN ELECTRICAL ONE-LINE DIAGRAMS PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>PG</u> CHECKED BY <u>TJO</u> REVISIONS DATE: MARCH 11, 2025 SHEET NO. E7.00T ^{JOB NO}242030



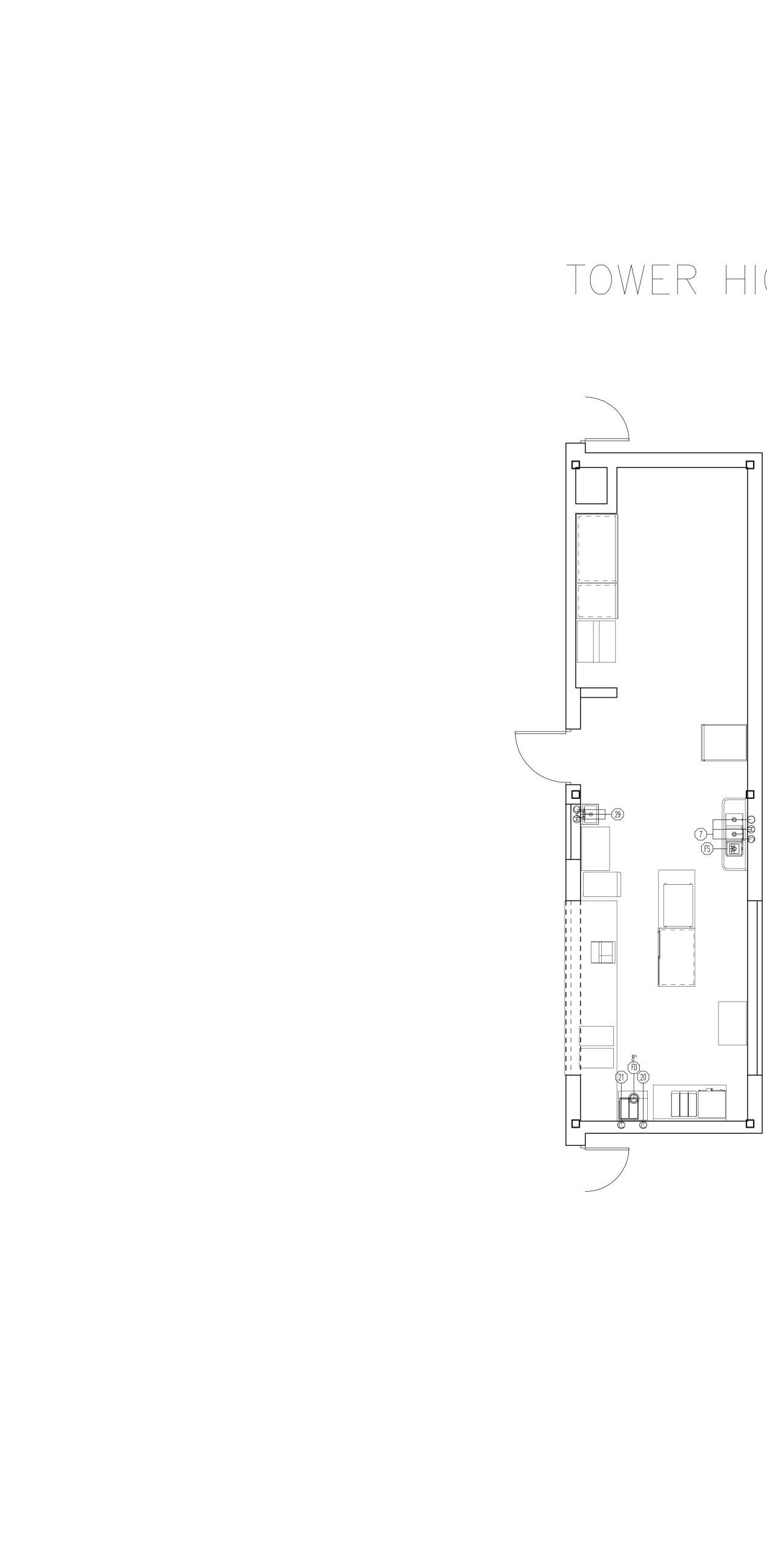
TOWER HIGH SCHOOL SERVERY

	EQ	UIPMENT SCHEDULE
ltem	Qty	Equipment Description
1.	1	MILK COOLER – RELOCATE/EXISTING REACH–IN FREEZER – RELOCATE/EXIS REACH–IN REFRIGERATOR – RELOCATE
2. 3.	1	REACH–IN FREEZER – REĹOCATE/EXIS
3.	1	REACH—IN REFRIGERATOR — RELÒCATE
4. 5.	LOT	STORAGE SHELVING — EXISTING
5.	1	MOBILE HOT CART
6. 7.	_	OPEN NUMBER
/.	1	3 COMPARTMENT SINK
8.	1	WORKTABLE
9.	1	HEATED SANDWICH SLIDE
10. 11.	1 1 1 1	BEVERAGE REFRIGERATOR SNACK RACK – BY OWNER
12.	1	OPEN NUMBER
13.	1	WORKTABLE
14.	1	STORAGE SHELVING
15.	1	PRETZEL CABINET – RELOCATE EXISTIN
16.	1	BEVERAGE DISPENSER - BY OWNER
17.	1	WORKTOP REFRIGERATOR
18.	1	CUP DISPENSER – BY OWNER
19.	_	OPEN NUMBER
20.	1 1	ICE MAKER – RELOCATE/EXISTING
21.	1	COFFEE MAKER – BY OWNER
22.	1	TOPPING RAIL - BY OWNER
23.	2 1	SLUSHIE MACHINES
24.	1	GLASS PROTECTOR PANEL
25. 26.	1	P.O.S. TERMINAL – BY OWNER SERVING COUNTER w/PASS-THRU LED
20.	1	YOGURT MACHINE – RELOCASTE/EXIST
27. 28.	1	WORKTABLE
29.	1	HAND SINK

E/EXISTING ELOCATE/EXISTING — RELOCATE/EXISTING STING DCATE EXISTING BY OWNER NER EXISTING NER

WNER SS-THRU LEDGE DCASTE/EXISTING

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com FSD **Food Service Designs, LLC** 9201 Funston White Lake, MI 48386 ph. (248) 410–3459 FOODSERVICE DESIGNERS OPERATIONAL CONSULTING AND PLANNERS \succ M SERV Ŕ HOOL DISTRICT I EXPRESS I FREEZER REPLA SCHOOL HS - TITAN FOOD PROGRAM PUBLIC WOODS WARREN WO TOWER HAWTHORN FOODSERVICE EQUIPMENT PLAN PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>RDM</u> CHECKED BY<u>RDM</u> REVISIONS OWNER REVIEW 02/28/2025 BIDS 03/11/2025 DATE: MARCH 11, 2025 SHEET NO. FSE-1 ^{јов NO}242030



TOWER HIGH SCHOOL SERVERY

 A.F.F.
 ABOVE FINISHED

 B.T.C.
 BRANCH TO CON

 D.F.A.
 DOWN FROM ABO

 F.E.C.
 FOODSERVICE EC

 G.C.
 GENERAL CONTRA

 M.C.
 MECHANICAL CON

 Q.D.G.H.
 QUICK DISCONNE

 Ø
 FUNNEL-TYPE FI

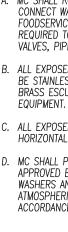
 O
 DIRECT CONNECT

 Ø
 FLOORDRAIN (DC

 I. THIS DRAWING
 PURPOSES OI ON THE PROJIN DRAWINGS

 2. REFER TO THI
 ADDITIONAL IN

 3. FEC SHALL VE SCHEDULED F



	MECHANICAL SCHEDULE									
Item	Qty	Equipment Description	Hot Water	Cold Water	Hgt A.F.F.	Drain Type	Drain Size	Hgt A.F.F.	Comments	
7	1	3 COMPARTMENT SINK	1/2"	1/2"	1'-0''	DIRECT	2-1/2"	10''	DIRECT WASTE FROM 1ST BOWL	
						INDIRECT	2-1/2"	-	INDIRECT WASTE FROM 2ND & 3RD BOWL	
20	1	ICE MAKER	_	1/2"	1'-0''	INDIECT	1-1/2"	-	INDIRECT WASTE TO FLOORDRAIN SHOWN	
21	1	COFFEE MAKER	_	1/2"	4'-0''	_		_		
29	1	HANDSINK	1/2"	1/2"	1'-0''	DIRECT	1-1/2"	1'-0''		
FD	1	8" FLOOR DRAIN	8''	FLOORDRIAN FC	R INDIRECT WAS'	TE FROM ICE MAR	KER			
FS	1	12" FLOOR SINK	F	FLOOSRINK FOR INDIRECT WASTE FROM 3 COMP SINK						

	NOTE: MECHANICAL SYMBOLS APPLY TO THIS SHEET ONLY.								
N	MECHANICAL SYMBOL LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION						
A.F.F.	ABOVE FINISHED FLOOR	0	ROUND FLOORSINK (8'' DIAMETER)						
B.T.C.	BRANCH TO CONNECTION		FULL–GRATE FLOORSINK (12" SQUARE)						
D.F.A.	DOWN FROM ABOVE		1/2 GRATE FLOORSINK (12'' SQUARE)						
F.E.C.	FOODSERVICE EQUIPMENT CONTRACTOR		FLOORSINK; GRATE AS NEEDED (8" SQUARE)						
G.C.	GENERAL CONTRACTOR	\Diamond	DIRECT CONNECT GAS SUPPLY						
M.C.	MECHANICAL CONTRACTOR	\sim	FLEXIBLE QUICK RELEASE GAS SUPPLY						
Q.D.G.H.	QUICK DISCONNECT GAS HOSE	Ô	COLD WATER						
0	FUNNEL-TYPE FLOOR DRAIN (SANITARY)	\oplus	HOT WATER						
0	DIRECT CONNECT DRAIN	S	STEAM SUPPLY						
Ø	FLOORDRAIN (DO NOT SLOPE FLOOR TO DRAIN)	R	CONDENSATE RETURN						

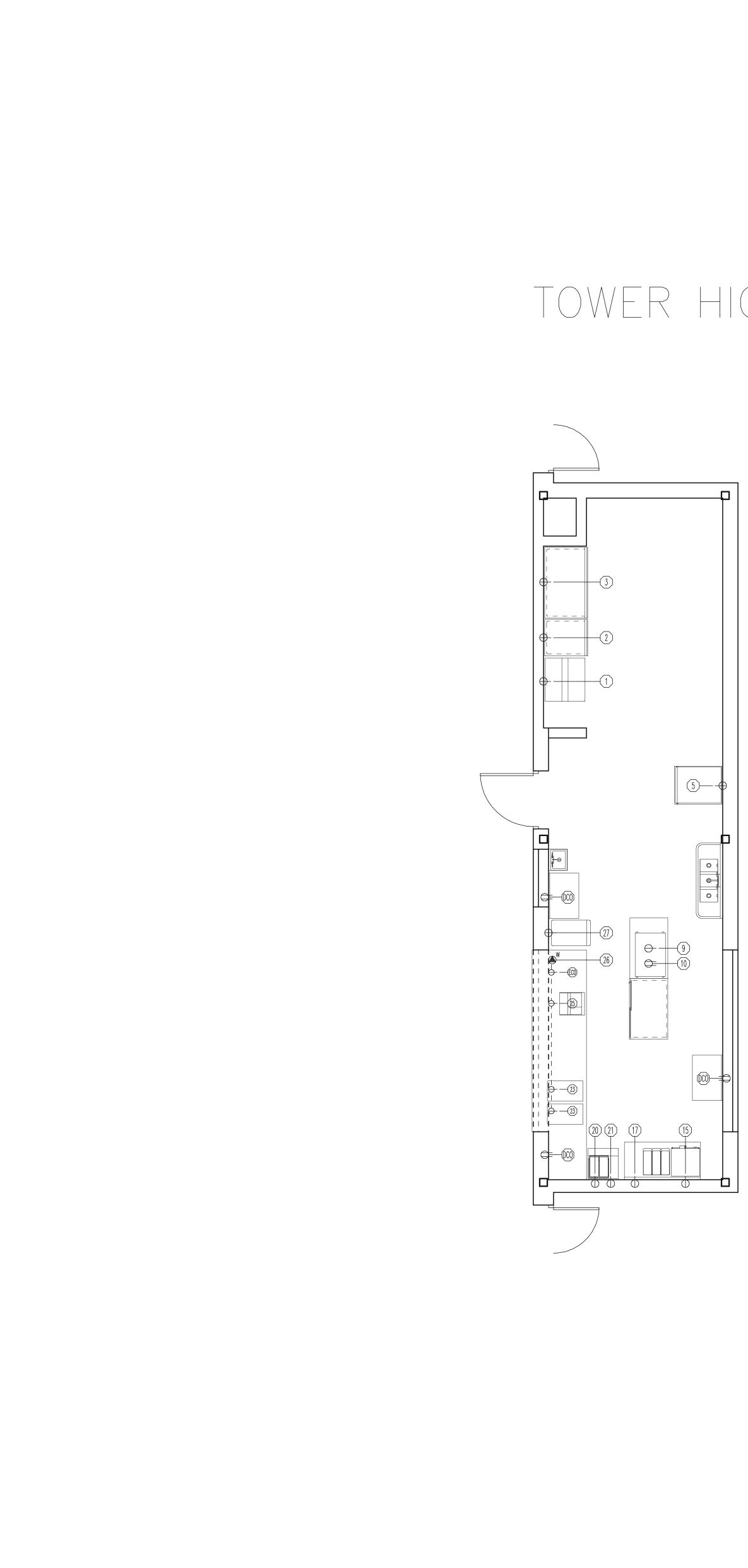
DIVISION 11400 NOTES 1. THIS DRAWING AND THE DATA CONTAINED HEREIN ARE PROVIDED FOR BIDDING PURPOSES ONLY AND ARE NOT INTENDED AS ROUGH—IN DRAWINGS TO BE USED ON THE PROJECT SITE. THE FEC SHALL PROVIDE FINAL DIMENSIONED ROUGH— IN DRAWINGS AND EQUIPMENT DATA FOR CONSTRUCTION PURPOSES. 2. REFER TO THE DIVISION 11400 GENERAL AND ITEM SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

3. FEC SHALL VERIFY UTILITY REQUIREMENTS OF OWNERS EXISTING EQUIPMENT (IF ANY) SCHEDULED FOR RE-USE.

DIVISION 15 NOTES A. MC SHALL ROUGH IN UTILITY LINES THROUGH WALLS, FLOORS AND CEILINGS, CONNECT WASTE LINES FROM ROUGH INS AND MAKE ALL CONNECTIONS TO THE FOODSERVICE EQUIPMENT. MC TO PROVIDE ALL TRAPS, MANIFOLDS AND PIPING REQUIRED TO INTERCONNECT SINK DRAINS AS SHOWN. MC TO PROVIDE ALL TRAPS, VALVES, PIPING, ETC. NEEDED FOR INSTALLATION OF FOODSERVICE EQUIPMENT. B. ALL EXPOSED PIPING (ABOVE COUNTER HEIGHT OR IN A DIRECT LINE OF SIGHT) SHALL BE STAINLESS STEEL OR CHROME PLATED. INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THROUGH WALLS AND EQUIPMENT.

 C. ALL EXPOSED PLUMBING SHALL BE INSTALLED A MINIMUM OF 6" AFF AND ALL HORIZONTAL RUNS SHALL BE BENEATH THE COUNTER LINE AND BELOW EQUIPMENT.
 D. MC SHALL PROVIDE AND INSTALL ALL REQUIRED VACUUM BREAKERS. VACUUM BREAKERS, APPROVED BY THE MDPH, MUST BE PROVIDED ON ALL DISPOSERS, HOSE REELS, PRESSURE WASHERS AND ON ALL BEVERAGE EQUIPMENT REQUIRING A WATER CONNECTION. ALL ATMOSPHERIC VACUUM BREAKERS MUST BE LOCATED DOWNSTREAM OF SHUT-OFF VALVES IN ACCORDANCE WITH HEALTH DEPARTMENT CODES.

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com FSQ **Food Service Designs, LLC** 9201 Funston White Lake, MI 48386 ph. (248) 410–3459 FOODSERVICE DESIGNERS OPERATIONAL CONSULTING AND PLANNERS > SEMEN CEMEN S S S S S S S TRIC. ПК ШУ S Δ N Ш Ш D Ľ 0 Ш \geq \mathbf{O} S Ω \mathbf{O} C UBL Δ Δ ODS Ο Ο O ORN \geq Ζ ЦЦ Ľ \leq MA 4 **Γ** TOODSERVICE PLUMBING PLAN PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>RDM</u> CHECKED BY<u>RDM</u> REVISIONS OWNER REVIEW 02/28/2025 BIDS 03/11/2025 DATE: MARCH 11, 2025 SHEET NO. FSE-2 ^{јов NO}242030



TOWER HIGH SCHOOL SERVERY

(NOTE: ELECTRICAL SYMBOLS APPLY TO THIS SHEET ONLY.)									
ELECTRICAL SYMBOL LEGEND									
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION						
A.F.F.	ABOVE FINISHED FLOOR	\ominus	120V SINGLE RECEPTACLE						
DCO	DUPLEX CONVENIENCE OUTLET	Œ	SINGLE POWER RECEPTACLE TO MATCH EQUIPMENT						
D.F.A.	DOWN FROM ABOVE	۲	FLUSH FLOOR RECEPTACLE W/HINGED BRASS COVER						
E.C.	ELECTRICAL CONTRACTOR	00	FLUSH MOUNTED JUNCTION BOX IN CEILING						
F.E.C.	FOODSERVICE EQUIPMENT CONTRACTOR	W	FLUSH MOUNTED JUNCTION BOX IN WALL						
G.C.	GENERAL CONTRACTOR	F	FLUSH MOUNTED JUNCTION BOX IN FLOOR						
Œ	120V GROUND FAULT DUPLEX RECEPTACLE	® _c	CONDUIT OUT-OF-CEILING						
œ	SPLIT WIRED GROUND FAULT DUPLEX RECEPTACLE	® _₩	CONDUIT OUT-OF-WALL						
\$	SWITCH	∕	CONDUIT OUT-OF-FLOOR						
acces	FLUORESCENT LIGHT	X	LIGHT						
	DIMENSIONS FROM ABOVE FINISHED FLOOR ARE TO BE TO THE BOTTOM OF THE DEVICE.								

- 3. FEC SHALL VERIFY UTILITY REQUIREMENTS OF OWNER'S EXISTING EQUIPMENT (IF ANY) SCHEDULED FOR RE-USE.

					ELECTF	RICAL SCHEDULE		
Item	Qty	Equipment Description	Voltage	Phase	Amps	Connection Type	Hgt A.F.F.	Comments
1	1	MILK COOLER	120	1	6.9	C&P	1'-6''	F.E.C. TO VERIFY ELECTRICAL
2	1	REACH-IN FREEZER	120	1	12	C&P	7'-6''	F.E.C. TO VERIFY ELECTRICAL
3	1	REACH-IN REFRIGERATOR	120	1	14	C&P	7'-6''	F.E.C. TO VERIFY ELECTRICAL
5	1	HOT CART	120	1	12	C&P	4'-0''	-
9	1	SANDWICH SLIDE	120/208	1	10.3	C&P	5" MAX A.F.F.	RECEPTACLE LOCATED UNDER WORKTABLE
9	1	BEVERAGE REFRIGERATOR	120	1	6.5	C&P	5" MAX A.F.F.	RECEPTACLE LOCATED UNDER WORKTABLE
15	1	PRETZEL CABINET	120	1	14	C&P	4'-0''	F.E.C. TO VERIFY ELECTRICAL
17	1	WORKTOP REFRIGERATOR	120	1	4.2	C&P	1'-6''	_
20	1	ICE MAKER	120	1	14	C&P	1'-6''	F.E.C. TO VERIFY ELECTRICAL
21	1	COFFEE MAKER	208	1	15	C&P	4'-0''	F.E.C. TO VERIFY ELECTRICAL
23	2	SLUSHIE MACHINES	120	1	12	C&P	1'-0''	SEE DRAWING NOTE F.
25	1	P.O.S. TERMINAL	120	1	15	C&P	1'-0''	SEE DRAWING NOTE F.
26	1	SERVING COUNTER				SEE NOTE F	1'-0''	SEE DRAWING NOTE F.
27	1	YOGURT MACHINE	208	3	30	C&P	4'-0''	F.E.C. TO VERIFY ELECTRICAL
DCO	3	DUPLEX RECEPTACLE OUTLET	120	1	15	C&P	4'-0''	FOR GENERAL PURPOSE USE
ECO	1	SINGLE RECEPTACLE OUTLET	120	1	15	C&P	1'-0''	SEE DRAWING NOTE F.

DIVISION 11400 NOTES

1. THIS DRAWING AND THE DATA CONTAINED HEREIN ARE PROVIDED FOR BIDDING PURPOSES ONLY AND ARE NOT INTENDED AS ROUGH—IN DRAWINGS TO BE USED ON THE PROJECT SITE. THE FEC SHALL PROVIDE FINAL DIMENSIONED ROUGH— IN DRAWINGS AND EQUIPMENT DATA FOR CONSTRUCTION PURPOSES.

2. REFER TO THE DIVISION 11400 GENERAL AND ITEM SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

DIVISION 16 NOTES

A. EC SHALL ROUGH-IN ELECTRICAL SERVICE THROUGH WALLS, FLOORS AND CEILINGS. EC TO PROVIDE AND INSTALL ELECTRICAL SERVICES FROM ROUGH-INS TO FINAL CONNECTION POINTS ON FOODSERVICE EQUIPMENT.

B. EC SHALL FURNISH AND INSTALL ALL ELECTRICAL OUTLETS IN WALLS, FLOOR AND CEILING, AND IN OR ON FOODSERVICE EQUIPMENT WHERE NOTED ON DRAWINGS.

C. EC SHALL FURNISH AND INSTALL ALL DISCONNECT SWITCHES AS REQUIRED FOR THE EQUIPMENT IN ACCORDANCE WITH PREVAILING ELECTRICAL AND BUILDING CODES.

D. EC SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN REMOTE CONTROL PANELS AND THE FOODSERVICE EQUIPMENT.

E. ALL CONDUITS SHALL BE RUN IN WALL AT 6" AFF MINIMUM OR AS INDICATED. ALL EXPOSED CONDUIT SHALL BE RUN TIGHT TO THE WALL. EC SHALL NOT ATTACH CONDUIT TO ANY LEGS OR SHELVING BRACING. CONDUIT MAY BE SECURED TO THE BOTTOM OF THE TABLES OR OTHER STEEL SURFACES. ALL FLEXIBLE CONDUIT SHALL BE "SEALTITE" OR EQUAL. FLEXIBLE METAL CONDUIT IS NOT ACCEPTABLE. ALL COVER PLATES SHALL BE STAINLESS STEEL.

F. CONDUIT STUB OUT 2'-0" A.F.F. E.C. TO RUN CONDUIT INSIDE SERVING COUNTER ITEM 26 AND PROVIDE ELECTRICAL SERVICES TO THE FOLLOWING:

ONE (1) 120V GENERAL PURPOSE DCO MOUNTED INSIDE COUNTER. ONE (1) 120V/1PH/10A RECEPTACLE FOR P.O.S. TERMINAL MOUNTED INSIDE COUNTER. TWO (2) 120V/1PH/12A RECEPTACLES FOR SLUSHIE MACHINES MOUNTED INSIDE COUNTER.

WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com FSD Food Service Designs, LLC 9201 Funston White Lake, MI 48386 ph. (248) 410–3459 FOODSERVICE DESIGNERS OPERATIONAL CONSULTING AND PLANNERS >-SERV REPLA REPLA ____ Ŷ S \Box Ο Ľ Ο \geq \mathbf{O} S \mathbf{C} \overline{O} C 0 UB Ľ Ω \square ODS S O O Ο O ORN \geq Ζ Ш Ľ R \leq MA **Γ** TOODSERVICE ELECTRICAL PLAN PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY <u>RDM</u> CHECKED BY<u>RDM</u> REVISIONS OWNER REVIEW 02/28/2025 BIDS 03/11/2025 DATE: MARCH 11, 2025 SHEET NO. FSE-3 ^{јов NO}242030

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
	AUTOMATIC SPRINKLER RISER
ASR	
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA/EXH	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
۰F	DEGREES FAHRENHEIT
FA	FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
	FIRE HOSE CABINET
FHR	
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FUENISHED
FURN	FORNISHED FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER

MECHANICAL ABBREVIATIONS

MECHANICAL ABBREVIATIONS

MEC	HANICAL ABBREVIATIONS	MECH	ANICAL ABBREVIATIONS	Μ	ECH/
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	
HR	HOUR	UR	URINAL	<u> </u>	REC
HTG	HEATING	VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)	ţţ	
HYD	HYDRANT	VTR	VENT THRU ROOF		REC
ΗZ	HERTZ	W	WASTE	, ,	ROL
ID	INSIDE DIAMETER	₩&V	WASTE AND VENT	Ţ.	
IE	INVERT ELEVATION	WB	WET BULB TEMPERATURE		ROL
IN	INCHES	WC	WATER CLOSET		SPI
INST	INSTALLED	WG	WATER GAUGE		
INV	INVERT	WH	WALL HYDRANT		ELB
ISP	INTERNAL STATIC PRESSURE				RAD
IW	INDIRECT WASTE			۲۲ ۲۲	
KW	KILOWATT	MECH	IANICAL PIPING SYMBOLS		RAD
LAT	LEAVING AIR TEMPERATURE				REC
LAV	LAVATORY	ABBREV.	DESCRIPTION	, , , , , , , , , , , , , , , , , , ,	
LBS/HR	POUNDS PER HOUR	0	PIPE ELBOW UP		ROL
LDB	LEAVING DRY BULB TEMPERATURE		PIPE ELBOW DOWN		REC
LRA	LOCKED ROTOR AMPS		PIPE TEE DOWN	l 	
LWB	LEAVING WET BULB TEMPERATURE	>	DIRECTION OF FLOW		ROL
MAV	MANUAL AIR VENT		UNION		CON
MAX	MAXIMUM		STRAINER	I	
MBH	1000 BRITISH THERMAL UNITS PER HOUR		CONCENTRIC REDUCER	∽_ <u></u>	CON
MCA	MINIMUM CIRCUIT AMPACITY		ECCENTRIC REDUCER		ECC
MECH	MECHANICAL	—— —— ——	EXPANSION JOINT		
MFR	MANUFACTURER		FLEXIBLE CONNECTION	<u></u>	ECC
MH	MANHOLE	——————————————————————————————————————	PIPE ANCHOR		
MIN	MINIMUM		PIPE GUIDE	r r	(DO INCL
MISC	MISCELLANEOUS		PIPE CAP OR PLUG	<u>} - 1 - </u> , }	(SIN
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)	——×—	ISOLATION VALVE		INCL
MOP	MAXIMUM OVER-CURRENT PROTECTION	©	CIRCULATING PUMP	· · · · ·	(DO INCL
N.C.	NOISE CRITERIA		GLOBE VALVE	<u>}</u> ;}	(SIN
NIC	NOT IN CONTRACT	i5i	BALL VALVE	t I t	FLE
NC	NORMALLY CLOSED	/×/	BUTTERFLY VALVE		
NO	NORMALLY OPEN	₮	ANGLE VALVE	FWW	FLE: DIFF
NOM	NOMINAL	₽ \	CHECK VALVE (SWING)		
OA	OUTSIDE AIR		CHECK VALVE (SPRING)	<u>ب</u>	SUF
OBD	OPPOSED BLADE DAMPER	I4	PLUG VALVE		LINE
OC	ON CENTER / CENTER TO CENTER	X	NEEDLE VALVE		
OD	OUTSIDE DIAMETER		OUTSIDE SCREW AND YOKE VALVE (OS&Y)	∽	RET
OED	OPEN ENDED DUCT	¢	PRESSURE REGULATING VALVE	ц‡П	TRA
ORS	OVERFLOW ROOF SUMP	×	SOLENOID VALVE	, 	
OS&Y	OUTSIDE SCREW AND YOKE		CONTROL VALVE (2-WAY / 3-WAY)	\ge	CRC
PD	PRESSURE DROP (FEET OF WATER)	\bigcirc	CENTRIFUGAL FAN		CRC
PRV	PRESSURE REDUCING VALVE	M	AUTOMATIC GAS SHUT-OFF VALVE		DUC
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE	0C	TRAP (PLAN VIEW)		EXISTING
PSIG	POUNDS PER SQUARE INCH – GAUGE		FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)		NEW
PT	PRESSURE / TEMPERATURE PORT	Y _\$	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)		EXISTING
RA	RETURN AIR	(Õ)	ROOF SUMP		NEW
RH	RELATIVE HUMIDITY		CLEAN OUT (IN FLOOR)	•	
REQD	REQUIRED		CLEAN OUT (IN LINE)	ď	EXISTING
REL.A	RELIEF AIR		CLEAN OUT (WALL)		NEW
RPM	REVOLUTIONS PER MINUTE	BFP	BACKFLOW PREVENTER		EXISTIN
RPZ	REDUCED PRESSURE ZONE		WATER METER ASSEMBLY		NEW
RS	ROOF SUMP	-+	HOSE BIBB, WALL HYDRANT	- `d	EXISTIN
SA	SUPPLY AIR	—	DIRECTION OF PIPE PITCH		NEW
SH	SHOWER	\odot	SPRINKLER HEAD (UPRIGHT)	•	
SP	STATIC PRESSURE	\triangleleft	SPRINKLER HEAD (SIDEWALL)	I	VOL
SqFt / SF	SQUARE FOOT/SQUARE FEET	FS	FLOW SWITCH	— – — M	MOT
SS	SERVICE SINK	¢,	SIAMESE CONNECTION (YARD)		
ТС	TEMPERATURE CONTROL	\rightarrow	SIAMESE CONNECTION (WALL MOUNTED)	SD	SMC
Т&Р	TEMPERATURE AND PRESSURE	μĻ	FIRE HYDRANT	(C02)	CO2
TSP	TOTAL STATIC PRESSURE		FLOW MEASURING DEVICE		
TYP	TYPICAL	<i>》</i>	BALANCING VALVE	()	THE TEM
		茵	COMBINATION FLOW MEASURING AND BALANCING DEVICE	H	HUN
UG	UNDERGROUND	× ×		· — ·	
UG UH	UNIT HEATER	⊠ ∏ AAV	AUTOMATIC AIR VALVE		HUM
			AUTOMATIC AIR VALVE MANUAL AIR VALVE	-∿► -►	RET

MECHANICAL SYMBOLS

DESCRIPTION	ABBREV.	DESCRIPTION
RECTANGULAR TAKE–OFF (SINGLE LINE)	CA	COMPRESSED AIR PIPING
	CD	CONDENSATE DRAIN PIPING
RECTANGULAR TAKE-OFF (DOUBLE LINE)	DT	DRAIN TILE
ROUND TAKE-OFF (SINGLE LINE)	——F——	FIRE PROTECTION PIPING
	FOR	FUEL OIL RETURN PIPING
ROUND TAKE-OFF (DOUBLE LINE)	FOS	FUEL OIL SUPPLY PIPING
SPIN-IN FITTING (WITH VOLUME DAMPER)	——G-——-	NATURAL GAS PIPING
	——BCW——	BOOSTED-DOMESTIC COLD WATER PIPIN
ELBOW (WITH TURNING VANES)	BHW	BOOSTED-DOMESTIC HOT WATER PIPING
RADIUS RECTANGULAR ELBOW	CW	DOMESTIC COLD WATER PIPING
	NPCW	NON POTABLE COLD WATER PIPING
RADIUS ROUND ELBOW	TW	TEMPERED WATER PIPING
RECTANGULAR ELBOW UP	——HW——	DOMESTIC HOT WATER PIPING
	—HW(140°F)—	DOMESTIC 140°F HOT WATER PIPING
ROUND ELBOW UP	——HWR——	DOMESTIC HOT WATER RETURN PIPING
RECTANGULAR ELBOW DOWN	SAN	SANITARY WASTE PIPING
	PSAN	PUMPED SANITARY PIPING
ROUND ELBOW DOWN	V	VENT PIPING
CONCENTRIC TRANSITION (DOUBLE LINE)	ST	STORM SEWER PIPING
	PST	PUMPED STORM PIPING
CONCENTRIC TRANSITION (SINGLE LINE)	RC	RAIN CONDUCTOR PIPING
ECCENTRIC TRANSITION (DOUBLE LINE)	ORC	OVERFLOW RAIN CONDUCTOR PIPING
	——CHWR——	CHILLED WATER RETURN PIPING
ECCENTRIC TRANSITION (SINGLE LINE)	CHWS	CHILLED WATER SUPPLY PIPING
INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)	CWR	CONDENSER WATER RETURN PIPING
INCLINED RISE IN DIRECTION OF AIR FLOW	CWS	CONDENSER WATER SUPPLY PIPING
(SINGLE LINE)	——HHWR——	HEATING HOT WATER RETURN PIPING
INCLINED DROP IN DIRECTION OF AIR FLOW (DOUBLE LINE)	——HHWS——	HEATING HOT WATER SUPPLY PIPING
INCLINED DROP IN DIRECTION OF AIR FLOW	HPLR	HEAT PUMP LOOP RETURN PIPING
(SINGLE LINE)	HPLS	HEAT PUMP LOOP SUPPLY PIPING
FLEXIBLE CONNECTION	RL	REFRIGERANT LIQUID PIPING
FLEXIBLE DUCT CONNECTION TO SUPPLY	RS	REFRIGERANT SUCTION PIPING
DIFFUSER	HGB	HOT GAS BY-PASS PIPING
SUPPLY DIFFUSER	——GXHR——	GEO HEAT EXCHANGE RETURN
SUFFLI DIFFUSER	GXHS——	GEO HEAT EXCHANGE SUPPLY
LINEAR SLOT DIFFUSER	STM	STEAM PIPING
	——HPS——	HIGH PRESSURE STEAM PIPING
RETURN OR EXHAUST GRILLE	LPS	LOW PRESSURE STEAM PIPING
TRANSFER GRILLE	{CR	STEAM CONDENSATE RETURN PIPING
	PCR	PUMPED STEAM CONDENSATE RETURN F
CROSS SECTION OF SUPPLY AIR DUCT	LPC	LOW PRESSURE CONDENSATE PIPING
CROSS SECTION OF EXHAUST OR RETURN AIR DUCT	HPC	HIGH PRESSURE CONDENSATE PIPING
FXISTING	——MA	MEDICAL AIR PIPING

EXISTING FIRE DAMPER (HORIZONTAL) NEW EXISTING

FIRE DAMPER (VERTICAL)

EXISTING SMOKE DAMPER

EXISTING COMBINATION FIRE/SMOKE DAMPER (VERTICAL) NEW

EXISTING COMBINATION FIRE/SMOKE DAMPER NEW (HORIZONTAL)

VOLUME DAMPER (MANUALLY ADJUSTABLE)

MOTORIZED DAMPER

SMOKE DETECTOR

CO2 SENSOR

THERMOSTAT OR TEMPERATURE SENSOR

HUMIDISTAT OR HUMIDITY SENSOR

RETURN OR EXHAUST / SUPPLY AIR FLOW

PIPING LEGEND DESCRIPTION -CA ----- COMPRESSED AIR PIPING -CD----- CONDENSATE DRAIN PIPING -DT ----- DRAIN TILE -F----- FIRE PROTECTION PIPING —G——— NATURAL GAS PIPING -BHW BOOSTED-DOMESTIC HOT WATER PIPING -CW----- DOMESTIC COLD WATER PIPING NPCW NON POTABLE COLD WATER PIPING -HW----- DOMESTIC HOT WATER PIPING V(140°F)— DOMESTIC 140°F HOT WATER PIPING HWR ----- DOMESTIC HOT WATER RETURN PIPING PSAN PUMPED SANITARY PIPING V VENT PIPING -ST----- STORM SEWER PIPING -PST ----- PUMPED STORM PIPING -RC----- RAIN CONDUCTOR PIPING CHWS ---- CHILLED WATER SUPPLY PIPING HHWS----- HEATING HOT WATER SUPPLY PIPING HPLR HEAT PUMP LOOP RETURN PIPING HPLS HEAT PUMP LOOP SUPPLY PIPING -RL----- REFRIGERANT LIQUID PIPING -RS----- REFRIGERANT SUCTION PIPING -HGB----- HOT GAS BY-PASS PIPING GXHR — GEO HEAT EXCHANGE RETURN -STM-------------------------STEAM PIPING -HPS----- HIGH PRESSURE STEAM PIPING -LPS------ LOW PRESSURE STEAM PIPING

------N NITROGEN GAS PIPING

DRAWING INDEX

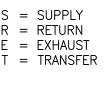
	SHT NO	DESCRIPTION
	M0.00H	MECHANICAL GENERAL INFORMATION
	M1.00H	MECHANICAL COMPOSITE PLAN
	P4.01H	ENLARGED PLUMBING DEMOLITION & NEW WORK FIRS

DRAWING NOTATION

SYMBOL	DESCRIPTION
	NEW WORK KEY NOTE NO. 1
\sum_{1}	DEMOLITION KEY NOTE NO. 1
<u>AHU-1</u>	EQUIPMENT TAG
S-1 12x12 150-2	AIR TERMINAL TAG: S IE: DIFFUSER TYPE = $S-1$ E NECK SIZE = $12x12$ T CFM = 150 (TYPICAL FOR 2)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIP
\ / / /\	EXISTING SYSTEM COMPONENT TO BE
~ •	POINT OF NEW CONNECTION

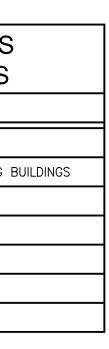
APPLICABLE CODES AND REGULATIONS		
YEAR	CODE	
2015	MICHIGAN BUILDING CODE	
2015	MICHIGAN REHABILITATION CODE FOR EXISTING B	
2021	MICHIGAN PLUMBING CODE	
2021	MICHIGAN MECHANICAL CODE	
2015	MICHIGAN UNIFORM ENERGY CODE	
2015	INTERNATIONAL FUEL GAS CODE	
2012	NFPA 101 WITH BFS AMENDMENTS	

RST FLOOR PLANS	

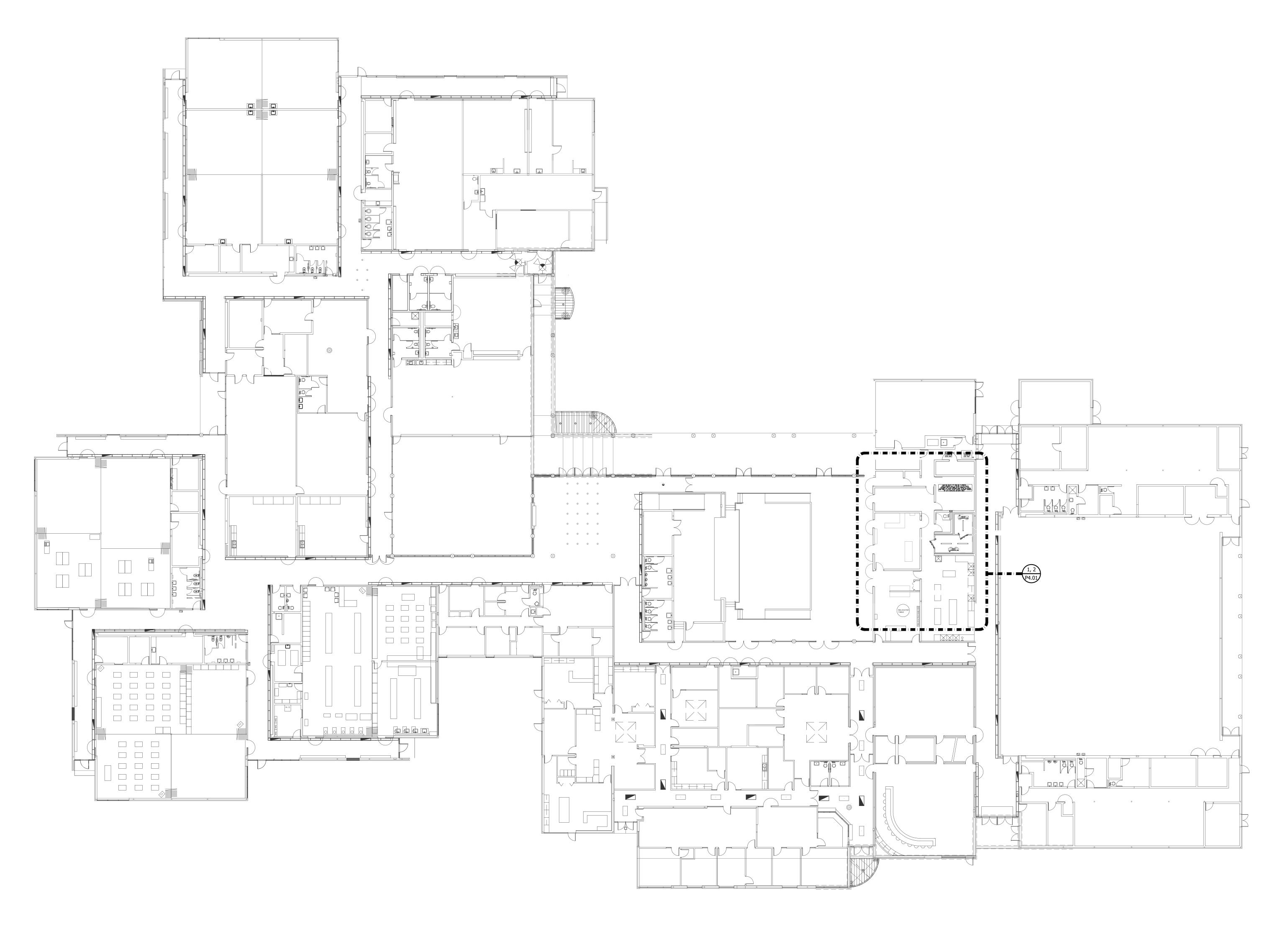


JIPMENT

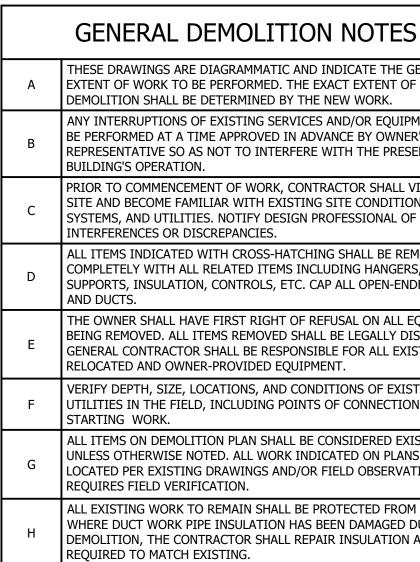
REMOVED







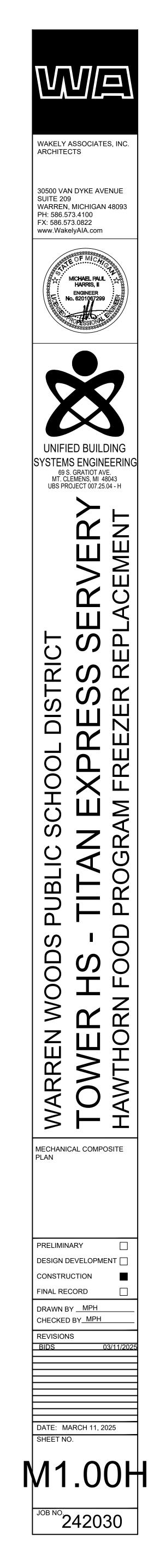


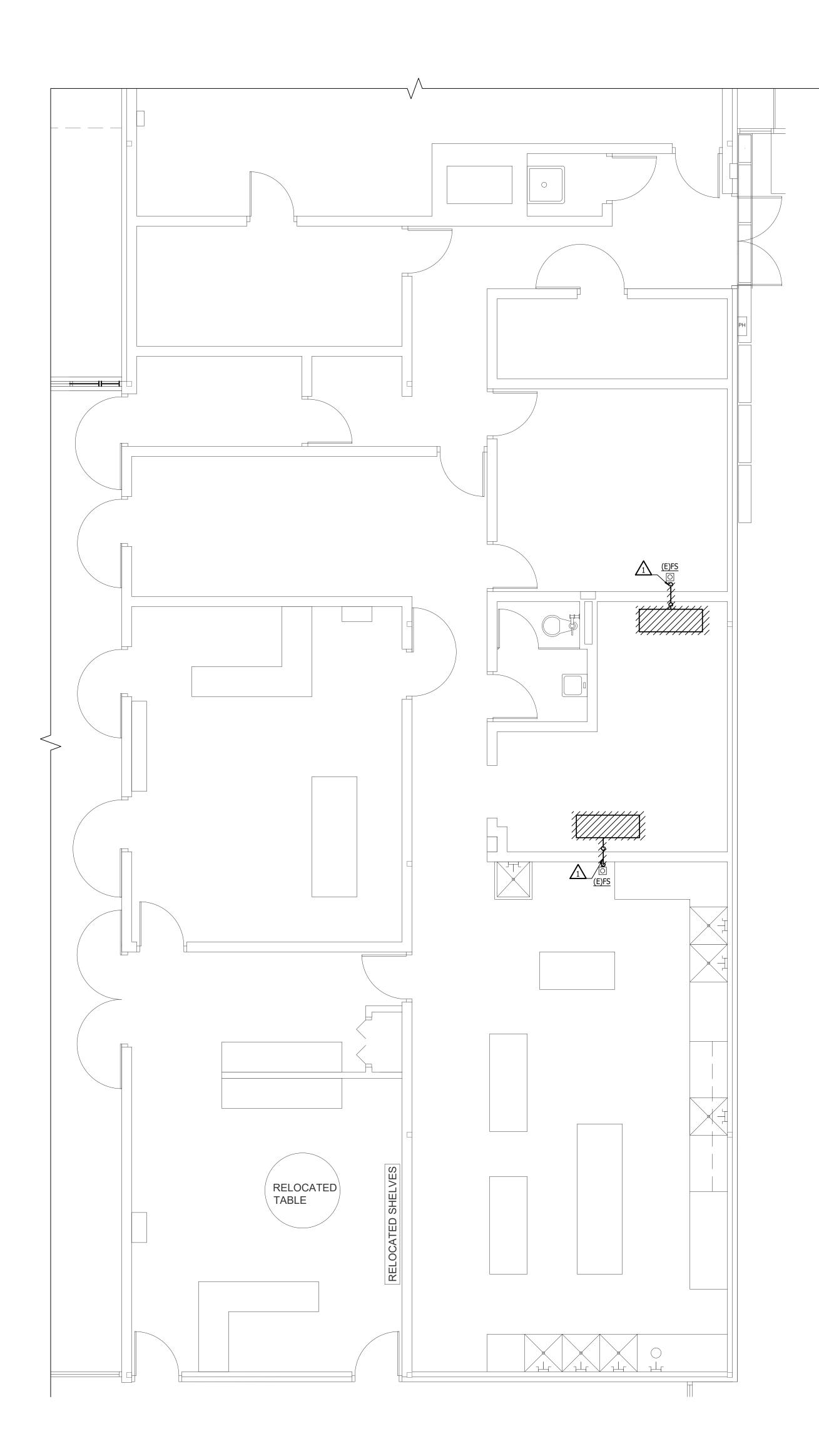


	PLUMBING GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE C EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT O DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIP BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNE REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRES BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIC SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL O INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE RE COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGER SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-EN AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL E BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY D GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXI RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISUTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTIONS STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EX UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLAN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVA REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS A FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMU NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SH
К	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECT FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROUNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG V
М	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATE

ĸ	FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVUNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG V
Μ	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATE
	HVAC GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE EXTENT OF WORK TO BE PERFORMED. PROVIDE AND EXECUT SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLI CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WELL STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED E ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCO WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYS TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION PROJECT IS DELIVERED TO THE OWNER.
С	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM ANI ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATT ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PAR CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPL PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY H THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPE DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND A FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, P INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REV APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CO DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL E DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICA EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNE SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
Н	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DO AS REQUIRED BY THE OWNER.
J	ALL SUPPORT ANCHORS SECURED TO THE BOTTOM OF FLOO SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTI SHALL BE PROVIDED BY THE CONTRACTOR.
К	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATIO RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRIN
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUP STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYS
М	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSEF THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE SIZE IS INDICATED.

S	
general DF	
PMENT SHALL ER'S SENT	
VISIT THE ONS, DF ANY	
EMOVED RS,	
NDED PIPES	
DISPOSED OF. DISTING	
STING DN, PRIOR TO	
KISTING NS HAS BEEN ATION AND	
M DAMAGE. DURING N AS	
GENERAL DF	
PMENT SHALL ER'S SENT	
VISIT THE ONS, DF ANY	
EMOVED RS,	
NDED PIPES	
DISPOSED OF. SISTING	
STING ON PRIOR TO	
KISTING NS HAS BEEN ATION AND	
M DAMAGE. DURING N AS	
AT 1/4" PER IUM UNLESS	
HALL BE 3". FION ON ALL	
OVIDE A PIPE WITH CAP.	
SHALL BE ED.	
E GENERAL	
TE ALL HVAC LICABLE L AS THE ED FOR THE	
BY THE OF OPTIONS	
of options ordance stems are on when	
S AND	
ND AGAINST TORNEYS RT OF THE PLOYEES	
HIM/HER IN OMISSION PERTY	
APPROVAL PAY ALL	
Y /IEW AND	
TO ENSURE CONTRACT	
EQUIPMENT; AL	
ECTIONS	
DOCUMENTS DR SLABS	
ING STEEL	
NG ACCESS. PPORTING STEMS.	
ERS SHALL BE ERS NO DUCT	



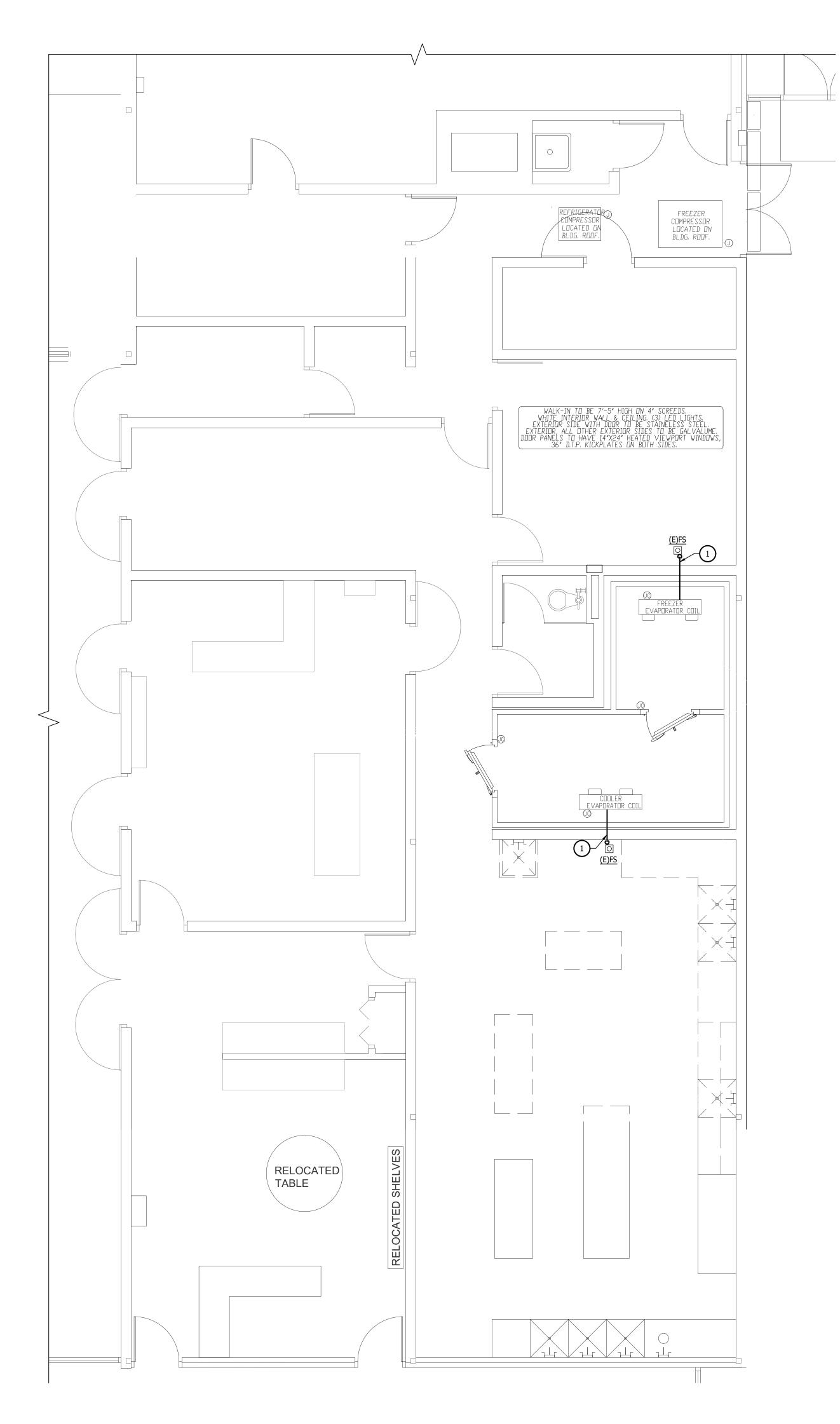




 $\underbrace{1}_{M1.00} \bigoplus \underbrace{\text{ENLARGED PLUMBING DEMOLITION FIRST FLOOR PLAN}}_{\text{SCALE: 1/4"} = 1'-0"}$

	GENERAL DEMOLITION NOTES
А	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES \triangle WALK-IN COOLER FAN COIL UNIT TO BE REMOVED BY OTHERS. REMOVE CONDENSATE PIPING THRU WALL TO FLOOR SINK COMPLETE.





	PLUMBING GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
К	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECTION ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WITH CAP.
Μ	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. SHALL BE USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.
X	NEW WORK KEYED NOTES
1	EXTEND INSULATED CONDENSATE PIPING FROM INDOOR FAN COIL THRU WALL AND ROUTE DOWN ALONG WALL TO FLOOR SINK. TERMINATE WITH AIR GAP.



STMBOL	
•	CO
0	CO
С	CO
4	DIS
L	DIS
4	DIS
	EL
	EL
ullet	GR
Ŧ	GR
	GR
J	JUI
J	JUI
Μ	ME
\mathcal{N}	МО
\mathbf{VO}	МО
\$м	МО
φ	PO
\square	PO
\oplus	PO
PUSB	PO
#	PO
Φ	PO
\odot	PO
SPD	SU
TC	TIM
Т	TR
VSD	VA

<u>NOTES:</u> 1. AL

	POWER SYMBOL LIST	ELE
SYMBOL	DESCRIPTION	ABBREV.
•	CONDUIT DOWN	AFF
0	CONDUIT UP	A
С	CONTACTOR	AF
4	DISCONNECT SWITCH - NON FUSED	AWG
4	DISCONNECT SWITCH - FUSED	AT
4	DISCONNECT SWITCH – COMB. MOTOR STARTER	ATS
	ELECTRICAL PANEL – 208/240 VOLTS	AIC
	ELECTRICAL PANEL – 480 VOLTS	С
$\textcircled{\bullet}$	GROUNDING ROD	CB
Ē	GROUND	CU
	GROUNDING BAR	СТ
J	JUNCTION BOX	DIA
J	JUNCTION BOX WITH HARDWIRED CONNECTION	DISC
Μ	METER	EMT
\mathbf{V}	MOTOR – SINGLE PHASE	EWC
O	MOTOR – THREE PHASE	EPO
\$м	MOTOR RATED SWITCH	(E)
φ	POWER RECEPTACLE – SIMPLEX TYPE	FA
φ	POWER RECEPTACLE – DUPLEX TYPE	FACP
+	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER	FLA
Пusb	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE	F
⊕	POWER RECEPTACLE - QUADRUPLEX TYPE	G/GRD
Ø	POWER RECEPTACLE - RECESSED FLOOR TYPE	GFCI/GFI
	POWER RECEPTACLE - SPECIALTY TYPE	HOA
SPD TC	SURGE PROTECTION DEVICE	HP
Г	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	KV
VSD	VARIABLE SPEED DRIVE	KVA
		KW
<u>NOTES:</u> 1. ALL DEVIC	E RATINGS/SIZES SHALL BE COORDINATED WITH PLANS	KWH
AND SCHE	DULES.	LP
		МСВ
AUXI	LIARY SYST. SYMBOL LIST	MDP
SYMBOL	DESCRIPTION	MLO
		MAX
	CAMERA	MIN
CR	CARD READER	NEC
	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER	NEMA
▼▼	COMMUNICATIONS DEVICE - FLOOR	N/NEU
• 	COMMUNICATIONS DEVICE – WALL MAGNETIC DOOR HOLDER	NF
DH	PUSH BUTTON	NC
S	SPEAKER	NO
	WALL CLOCK – SINGLE FACE	NIC
μĤ	WALL CLOCK – DOUBLE FACE	OF/CI
\square	WALL CLOCK AND SPEAKER UNIT	OF/OI
		PH. OR Ø
	L CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND FOR ALL DEVICES INDICATED.	P
2. LOW VOLTA	AGE CONTRACTOR SHALL PROVIDE EXACT FIONS AND LOCATIONS OF ALL DEVICES.	PF PVC
	TONS AND LOOATIONS OF ALL DEVICES.	(R)
FIF	RE ALARM SYMBOL LIST	(RR)
		RMC
SYMBOL	DESCRIPTION	RP
Ś	DETECTION DEVICE	SPEC/SPECS
< <u>s</u>	DETECTION DEVICE - DUCT MOUNTED	, TBB
FS	DETECTION DEVICE - FLOW SWITCH	TYP.
TS	DETECTION DEVICE - TAMPER SWITCH	UC
FAA	FIRE ALARM ANNUNCIATOR PANEL	UL
FACP	FIRE ALARM CONTROL PANEL	UPS
\FD	FIRE DEPARTMENT COMMUNICATION OUTLET	USB
F	MANUAL DEVICE – PULL STATION	

STNDUL	
$\square \triangleleft$	CA
CR	CA
	CO
	CO
▼	CO
DH	MA
●	PU
S	SP
нĊ	WA
$\vdash \bigoplus$	WA
\bigcirc S	WA

<u>NOTES:</u> 1. EL — C 2. LO\

SYMBOL	DESCRIPTION
Ś	DETECTION DEVICE
<u>(</u> <u>s</u>)	DETECTION DEVICE - DUCT MOUNTED
FS	DETECTION DEVICE - FLOW SWITCH
TS	DETECTION DEVICE - TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
\bigtriangledown FD	FIRE DEPARTMENT COMMUNICATION OUTLET
F	MANUAL DEVICE - PULL STATION
F	NOTIFICATION DEVICE - WALL MOUNTED
Ē	NOTIFICATION DEVICE - CEILING MOUNTED

IOTIFICATION DEVICE - CEILING MOUNTED NOTES: 1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

LIGHTING SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHT FIXTURE – CEILING/GRID MOUNT
	LIGHT FIXTURE – INTERIOR WALL MOUNT LINEAR
$\hat{\bigcirc}$	LIGHT FIXTURE – DOWNLIGHT WITH WALLWASH DIST.
\bigcirc	LIGHT FIXTURE - INTERIOR WALL SCONCE
-ф-	LIGHT FIXTURE – INTERIOR SURFACE MOUNT
Ю	LIGHT FIXTURE – INTERIOR WALL MOUNTED
\oplus	LIGHT FIXTURE – INTERIOR PENDANT MOUNT
۲	LIGHT FIXTURE – INTERIOR PENDANT MOUNT CYLINDER
<─	TRACK AND TRACK MOUNTED LIGHT FIXTURES
۲	EXIT LIGHT – CEILING MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
9	EXIT LIGHT – WALL MOUNTED – ARROWS AS INDICATED ON PLAN (SHADED AREA INDICATES FACE(S) OF FIXTURE)
	EMERGENCY LIGHT FIXTURE - EMERGENCY BATTERY UNIT
400	EMERGENCY LIGHT FIXTURE – BATTERY UNIT/EXIT SIGN
⊶	LIGHT FIXTURE - EXTERIOR POLE MOUNT TYPE
P	LIGHT FIXTURE – EXTERIOR WALL MOUNT TYPE
X	LIGHT FIXTURE - EXTERIOR POST TOP TYPE
۲	LIGHT FIXTURE – EXTERIOR BOLLARD TYPE
NOTES:	

NOTES: 1. LIGHTING SYMBOLS AS INDICATED ON PLANS ARE NOT DRAWN TO SCALE UNLESS NOTED OTHERWISE.

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
\$	SWITCH SINGLE POLE
\$ ₀	OCCUPANCY SENSOR SWITCH
\$ _v	VACANCY SENSOR SWITCH
\$ _D	LOW VOLTAGE DIMMER SWITCH
\$ _{vd}	VACANCY DIMMER SENSOR SWITCH
OS	CEILING MOUNTED OCCUPANCY SENSOR
(vs)	CEILING MOUNTED VACANCY SENSOR
\$ ₃	SWITCH THREE-WAY
\$ _K	SINGLE POLE KEY SWITCH

ELECTRICAL ABBREVIATIONS

ELEC	TRICAL ABBREVIATIONS
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
С	CONDUIT OR CEILING MOUNTED
СВ	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA -	FULL LOAD AMPS
F	FUSE
	GROUND
	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP IG	HORSEPOWER ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
	OWNER FURNISHED / CONTRACTOR INSTALLED
	OWNER FURNISHED / OWNER INSTALLED
PH. OR Ø	
Р	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHOLRIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	
RMC RP	RIGID METALLIC CONDUIT
	SPECIFICATIONS
TBB	
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING INDEX

SHT NO	DESCRIPTION
E0.00H	ELECTRICAL GENERAL INFORMATION & LIGHTING S
E1.00H	ELECTRICAL COMPOSITE PLAN
EP4.01H	ENLARGED ELECTRICAL POWER DEMOLITION & NEV
E7.00H	ELECTRICAL PANEL SCHEDULES & ONE-LINE RISER

DRAWING NOTATION

SYMBOL

DESCRIPTION

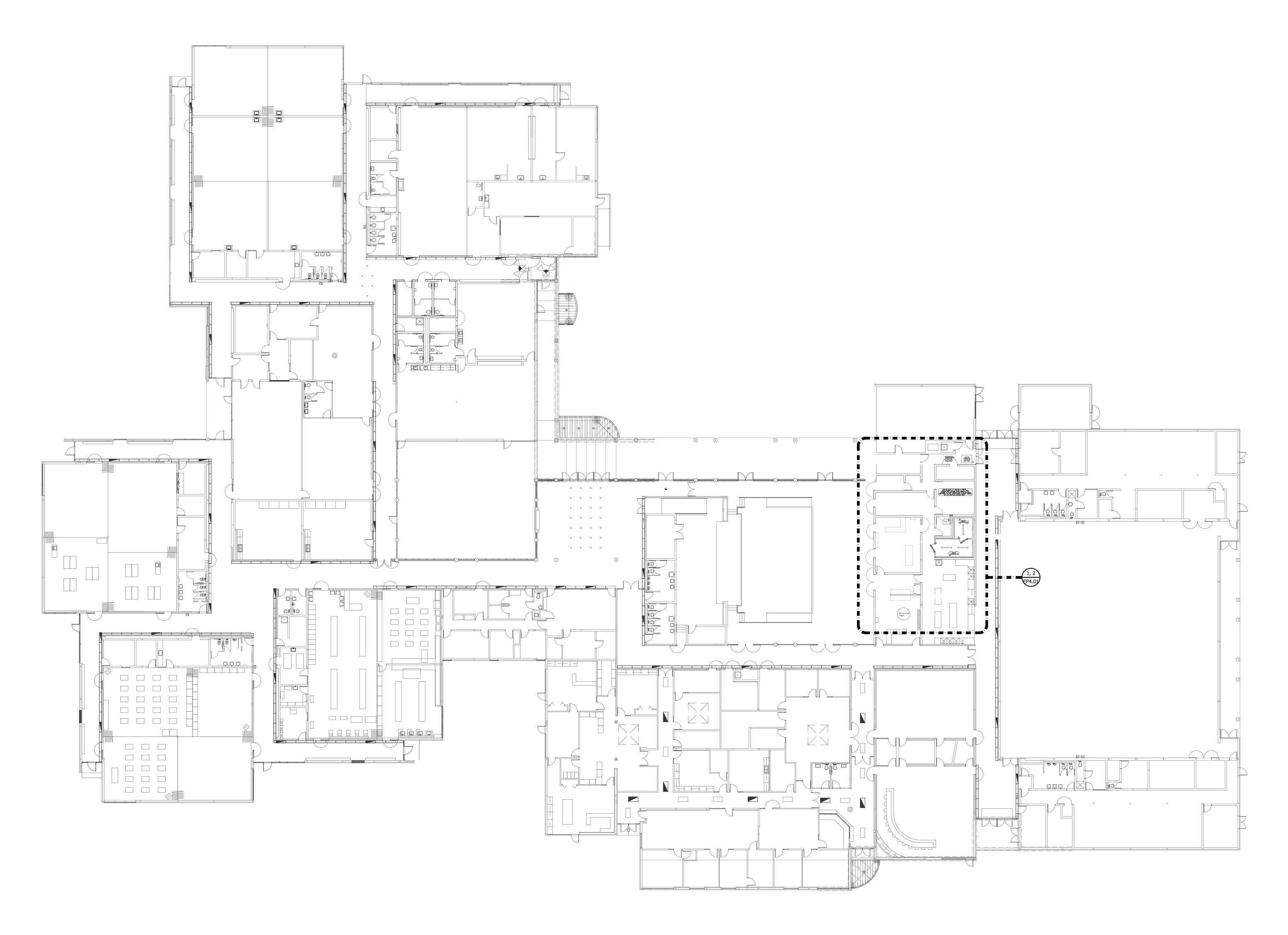
LIGHTING FIXTURE TAG LA $\left(1\right)$ CONSTRUCTION KEY NOTE NUMBER 1 1DEMOLITION KEY NOTE NUMBER 1 FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET) 1EQUIPMENT DESIGNATION, (I.E. EXHAUST FAN NUMBER 1) <u>EF-1</u> EXISTING DEVICES OR EQUIPMENT ----- NEW OR MODIFIED UNDERGROUND WIRING SHITTER EXISTING SYSTEM COMPONENT TO BE REMOVED -SECTION NUMBER 4 -SHEET E5.2 ON WHICH SECTION IS DRAWN -SECTION NO. 6 SECTION SCALE: 1/4" = 1' - 0"E5.2 -SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR) LIGHTING CONTROL TAG SCENE SCHEDULE ID 'A' LIGHTING CONTROL 1A DAYLIGHTING CONTROL SPACE TYPE '1'-----ZONE '1' (MAY NOT APPEAR ON EVERY TAG) APPLICABLE CODES AND REGULATIONS YEAR CODE 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE 2023 MICHIGAN ELECTRICAL CODE RULES, PART 8 2023 NATIONAL ELECTRICAL CODE (NFPA 70) 2013 NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 2 2013 NATIONAL FIRE ALARM AND SIGNALING CODE, NFF 2012 LIFE SAFETY CODE, NFPA 101

SCHEDULE
EW WORK FLOOR PLANS
R DIAGRAMS



20		
-PA	72	

2013 STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS, NFPA 110 2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES



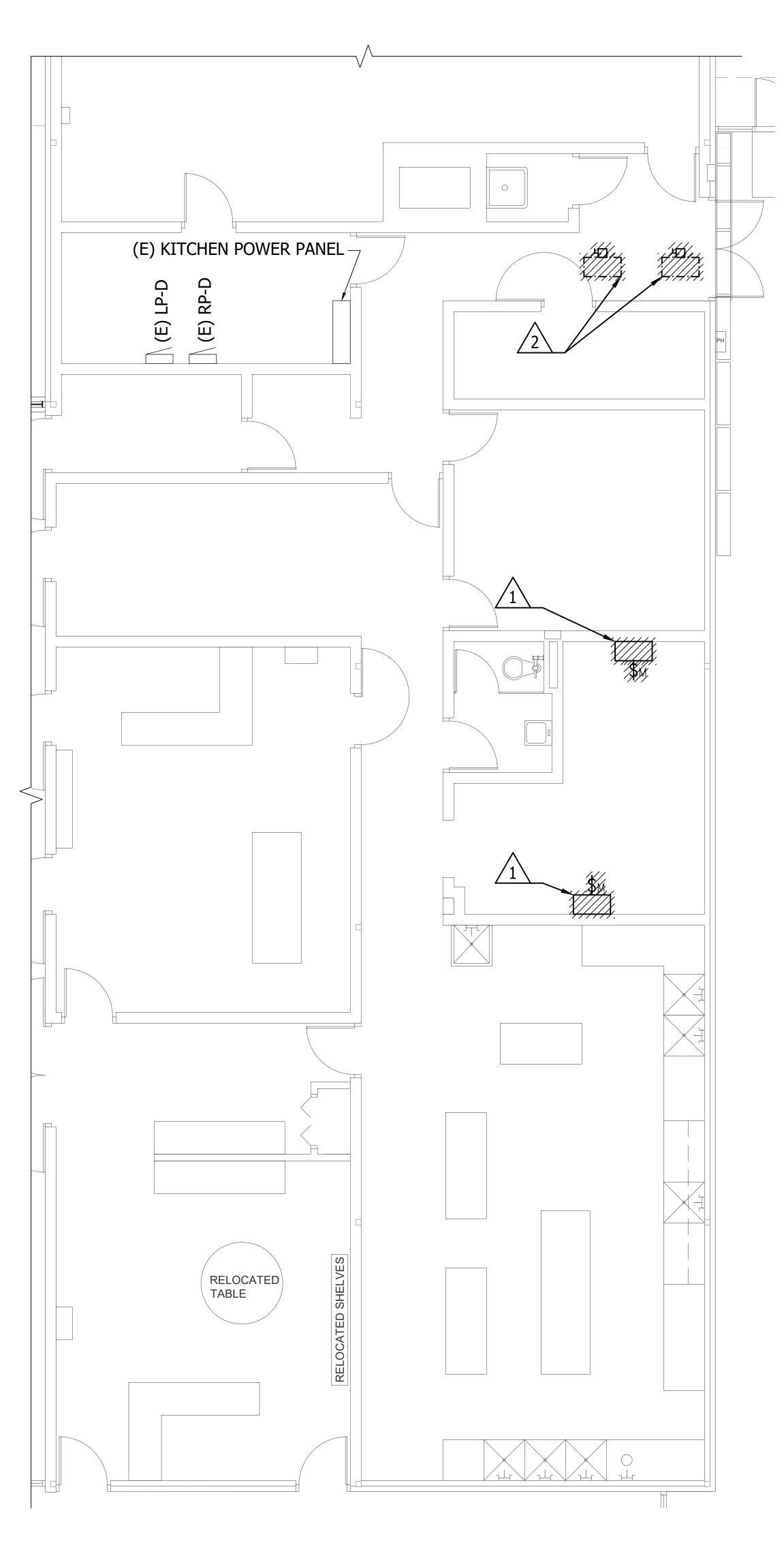


	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE C EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT O DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIP BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNE REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRES BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITION SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL CONTREPERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE RE COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGEF SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-EN AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY D GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EX RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXIS UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTIONS STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EX UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLAN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVA REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION REQUIRED TO MATCH EXISTING.

	POWER GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
н	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.

S
general DF
PMENT SHALL ER'S SENT
VISIT THE ONS, DF ANY
Emoved RS, Nded Pipes
Equipment Disposed of. Listing
STING DN, PRIOR TO
Kisting NS has been Ation and
M DAMAGE. DURING N AS
e general Kecute all L applicable L as the Ed for the
Kecute all L applicable L as the
KECUTE ALL L APPLICABLE L AS THE ED FOR THE BY THE OF OPTIONS ORDANCE STEMS ARE
KECUTE ALL L APPLICABLE L AS THE ED FOR THE OF OPTIONS ORDANCE STEMS ARE ON WHEN
KECUTE ALL L APPLICABLE L AS THE ED FOR THE OF OPTIONS ORDANCE STEMS ARE ON WHEN APPROVAL PAY ALL T NATIONAL
KECUTE ALL L APPLICABLE L AS THE ED FOR THE OF OPTIONS ORDANCE STEMS ARE ON WHEN APPROVAL PAY ALL T NATIONAL ITE AND SHALL BE

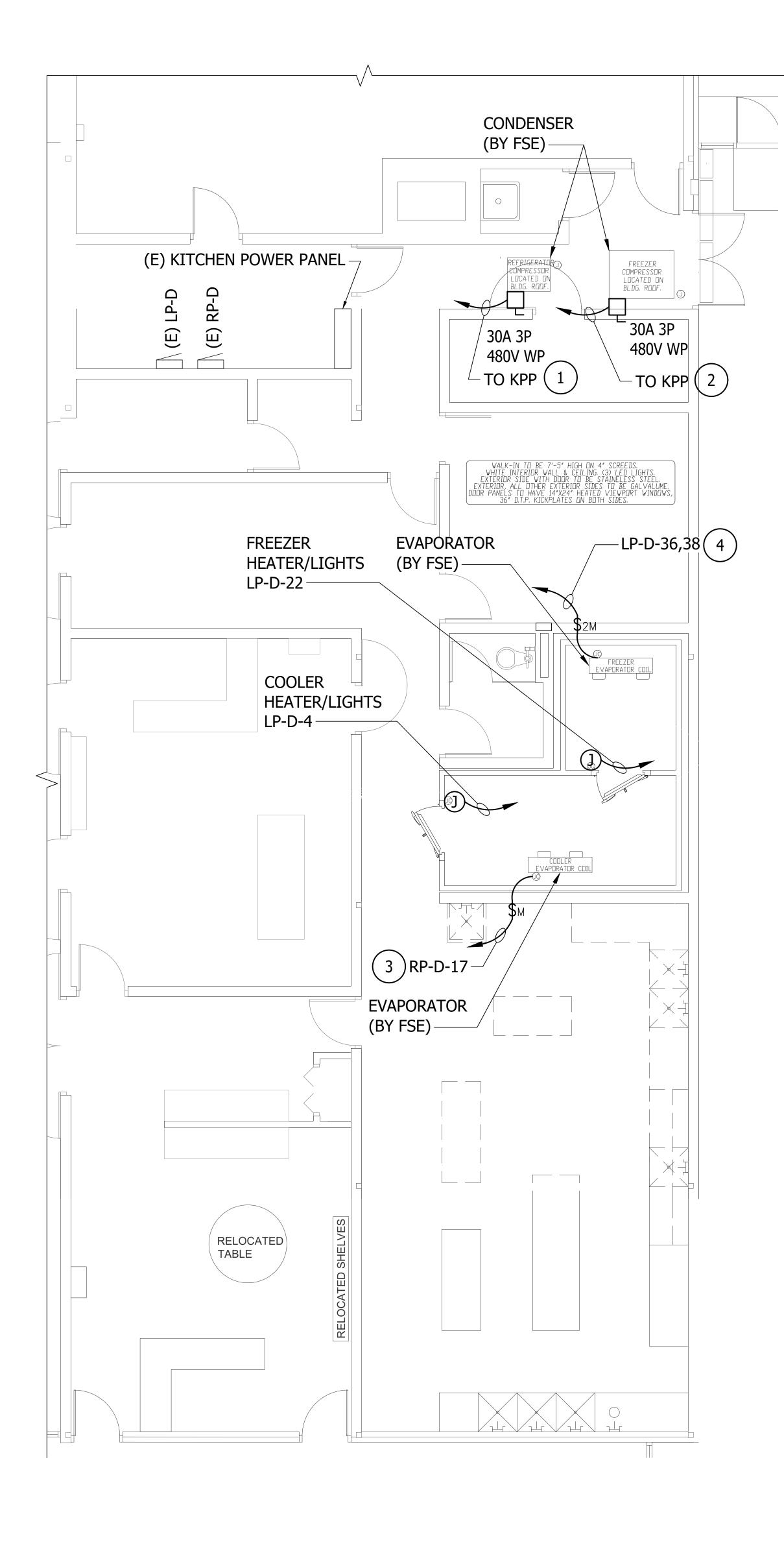
WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com
MICHAEL PAUL HARRIS, II ENGINEER No. 6201067299
UNIFIED BUILDING SYSTEMS ENGINEERING
WARREN WOODS PUBLIC SCHOOL DISTRICT TOWER HS - TITAN EXPRESS SERVERY HAWTHORN FOOD PROGRAM FREEZER REPLACEMENT
PLAN PRELIMINARY DESIGN DEVELOPMENT DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY PG CHECKED BY TJO
REVISIONS BIDS 03/11/2025
E1.00H



E1.00 ENLARGED ELECTRICAL POWER DEMOLITION FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"

	GENERAL DEMOLITION NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
В	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHA BE PERFORMED AT A TIME APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
С	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMEN BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED (GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR STARTING WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BE LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
Н	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

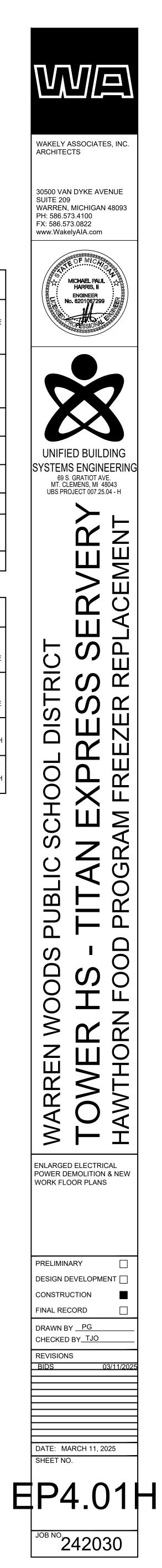
\triangle	DEMOLITION KEYED NOTES
1	WALK-IN EVAPORATOR TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL DISCONNECT, MAKE SAFE. DEMO ALL CONDUIT AND WIRING COMPLETE BACK TO SOURCE. RETAIN BREAKER AS SPARE, UPDATE PANEL SCHEDULE.
2	WALK-IN CONDENSER ON ROOF TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE SAFE FOR DEMOLITION. PREPARE FOR THE INSTALLATION OF NEW CONDENSER. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.

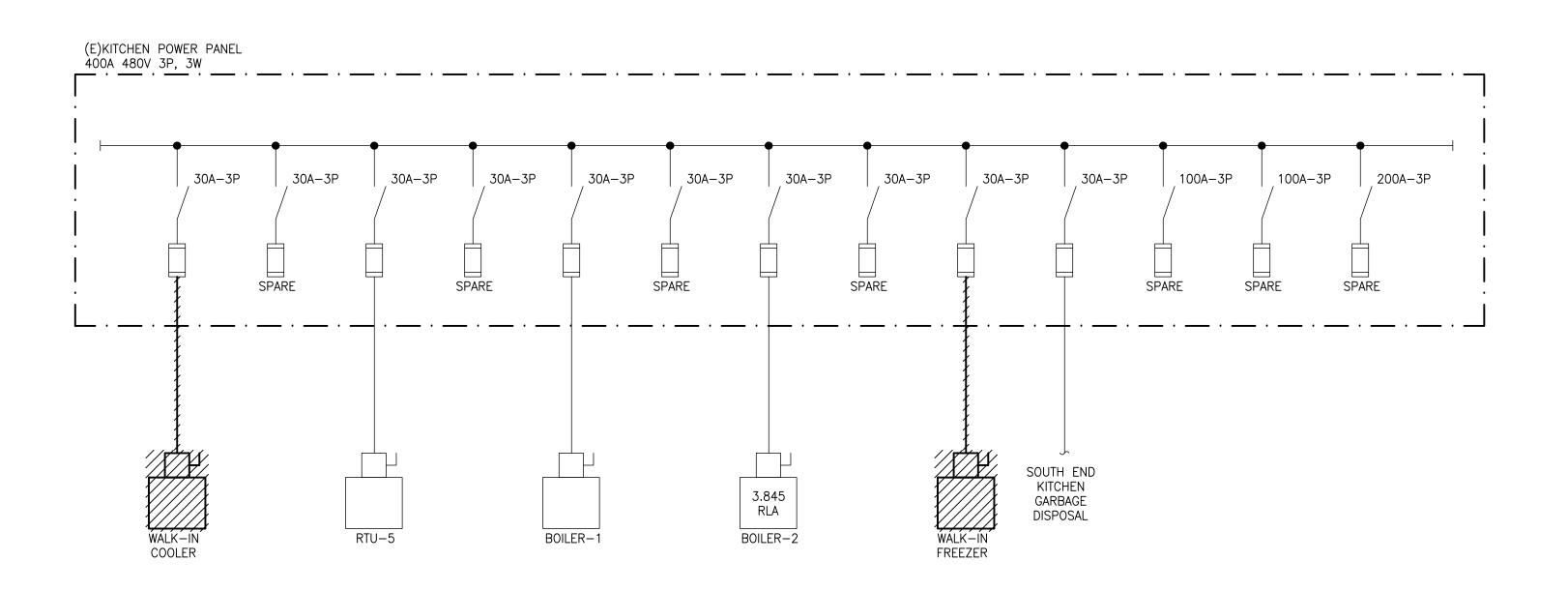




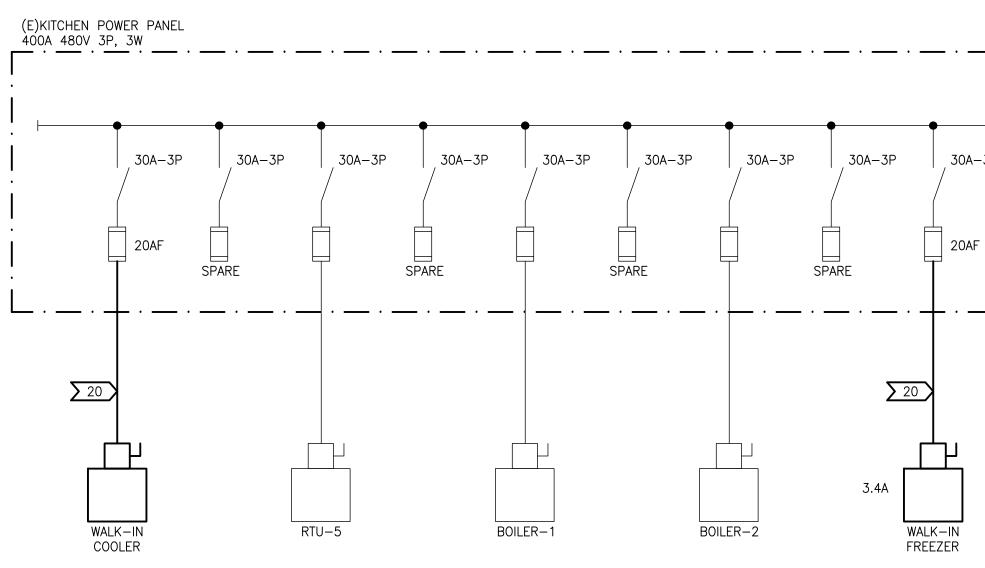
	POWER GENERAL NOTES
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC; AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES, FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
Н	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL P.A. AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.
	-
X	NEW WORK KEYED NOTES
1	COOLER CONDENSER BEING INSTALLED ON ROOF BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT AND FINAL ELECTRICAL CONNECTIONS. VERIFY EXACT LOCATION IN THE FIELD WITH F/C CONTRACTOR

1	COOLER CONDENSER BEING INSTALLED ON ROOF BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT AND FINAL ELECTRICAL CONNECTIONS. VERIFY EXACT LOCATION IN THE FIELD WITH F/C CONTRACTOR PRIOR TO ROUGH IN. WIRING AND CONDUIT SHALL BE NEW, REFER TO ONE LINE DIAGRAM FOR SIZING.
2	FREEZER CONDENSER BEING INSTALLED ON ROOF BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT AND FINAL ELECTRICAL CONNECTIONS. VERIFY EXACT LOCATION IN THE FIELD WITH F/C CONTRACTOR PRIOR TO ROUGH IN. WIRING AND CONDUIT SHALL BE NEW, REFER TO ONE LINE DIAGRAM FOR SIZING.
3	COOLER EVAPORATOR BEING INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND FINAL ELECTRICAL CONNECTIONS USING NEW CONDUIT AND WIRING. VERIFY EXACT LOCATION IN THE FIELD WITH F/C CONTRACTOR PRIOR TO ROUGH IN.
4	FREEZER EVAPORATOR BEING INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND FINAL ELECTRICAL CONNECTIONS USING NEW CONDUIT AND WIRING. VERIFY EXACT LOCATION IN THE FIELD WITH F/C CONTRACTOR PRIOR TO ROUGH IN.





PARTIAL ONE-LINE DIAGRAM NEW WORK NO SCALE



PARTIAL ONE-LINE DIAGRAM NEW WORK NO SCALE

ſ	FEEDER	COND.	COPPER FEEDER AND CONDUIT SIZES										
	(AMPS)	SIZE	3 WIRE WITH GROUND	4 WIRE WITH GROUND									
[20	12	3#12, 1#12 GND IN 3/4"C	4#12, 1#12 GND IN 3/4"C									

30A-3P 100A-3P 30A-3P 100A-3P 200A-3P SPARE SPARE SPARE ____ SOUTH END KITCHEN GARBAGE DISPOSAL

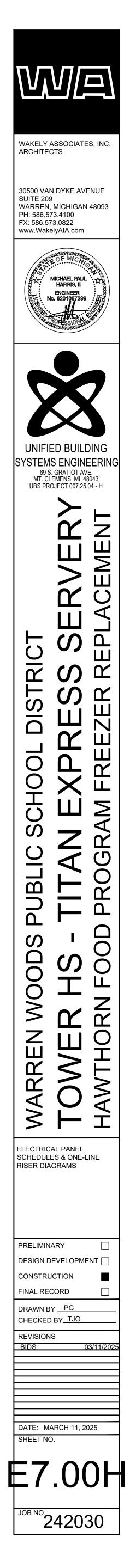
GHTS - NORTHEAST EC GHTS- GIRLS SHOWER F IGHTS- GIRLS SHOWER F OOD LIGHTS- NORTH & OOD LIGHTS- SOUTH & OLE LIGHTS- FRONT LIGHTS- FRONT PORTICO LIGHTS- FRONT PORTICO PLUG- KITCHEN OFFICES PLUG- KITCHEN OFFICES KITCHEN OFFICE RECEPT. UNIT VENT #38 TEACHERS UNIT VENT #38 SERVING LUG-WEST TEACHERS RC DISPOSAL TEACHERS ROC SIGN PANEL RPH Load Description Lighting or Continous L 180VA Receptacle Load Continuous Load (Volt-A Non-Continuous Load (V Total Load (kVA)

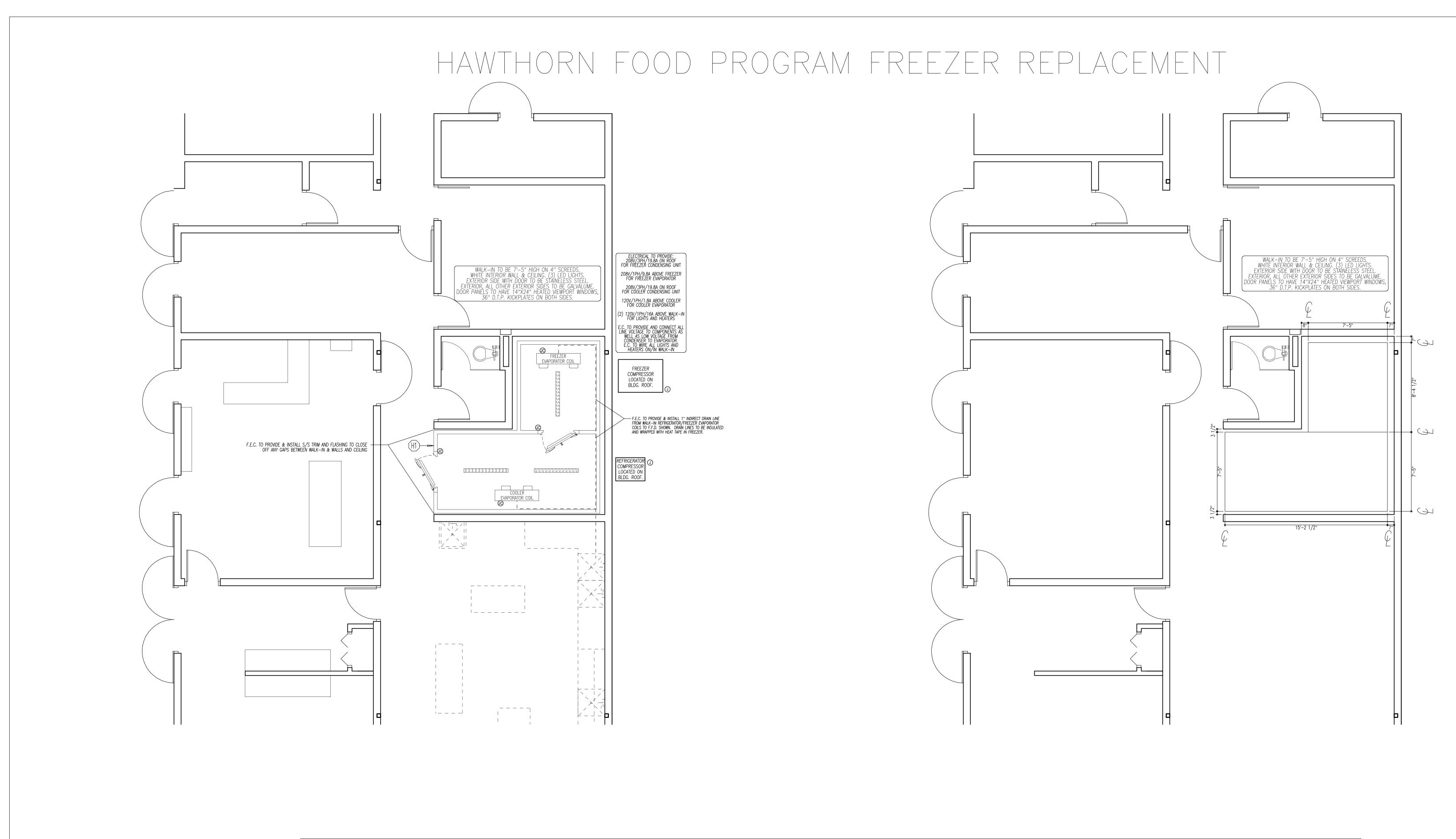
> PLUGS - SOUTH SERVING PLUGS - SOUTH SERVING PLUGS- WEST SERVING RC EXISITNG LOAD EXISITNG LOAD PLUG-WEST KITCHEN LUGS- KITCHEN TABLE, LUGS- CORRIDOR AND PLUG- KITCHEN DESK/CO FLOOR PLUG-SOUTH SERV LOOR PLUG- CENTER SE LOOR PLUG- CENTER SER SPARE EXHAUST FANS #7 & 8 FLOOR PLUGS- SERVING R DISPOSAL- TEACHERS DINI FLOOR PLUG- TEACHERS [220V FLOOR PLUG-SERVING **EXISITNG LOAD**

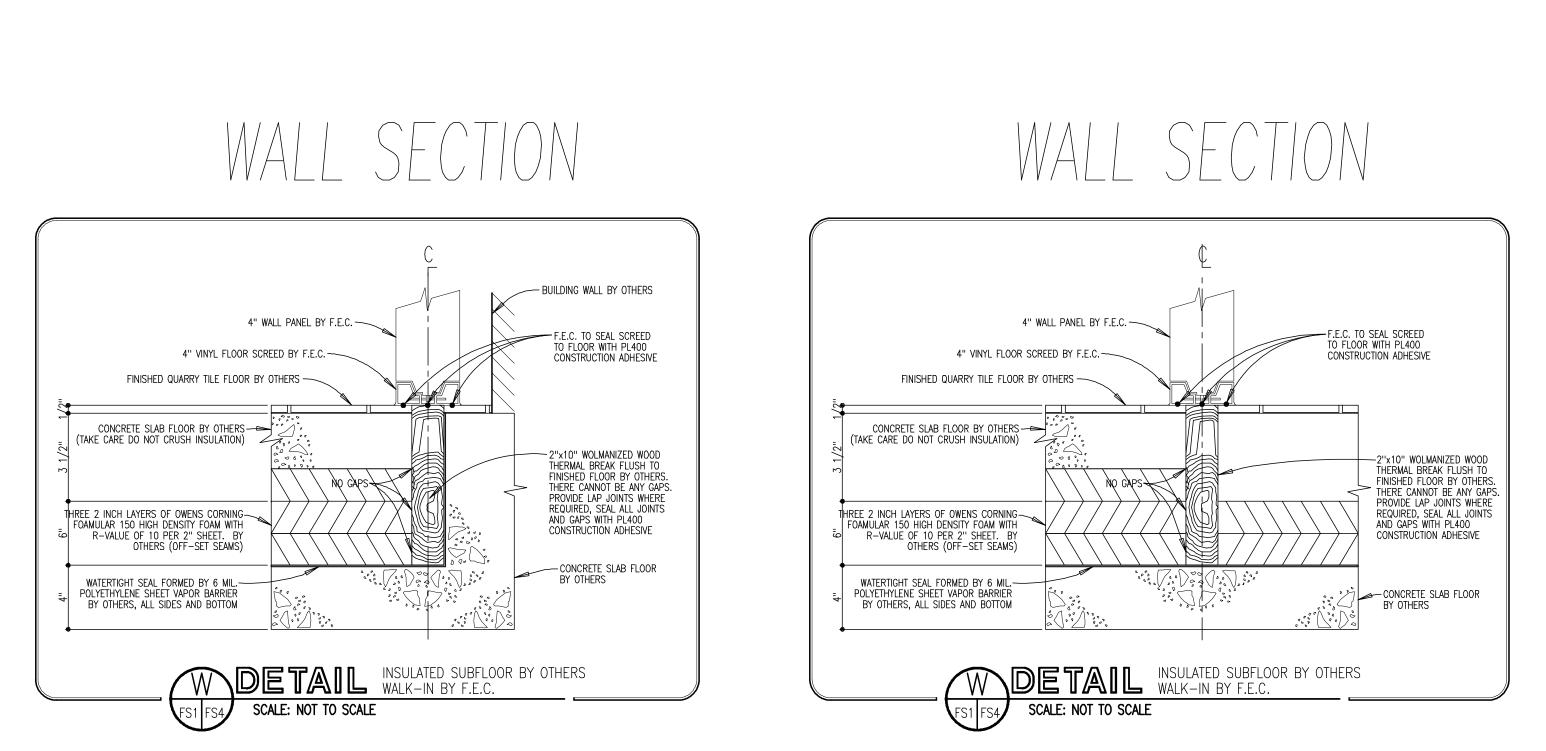
Load Description Lighting or Continous Log 180VA Receptacle Load Continuous Load (Volt-Ar Non-Continuous Load (V Total Load (kVA) Total Ampacity (Amps) Minimum Feeder Sizing

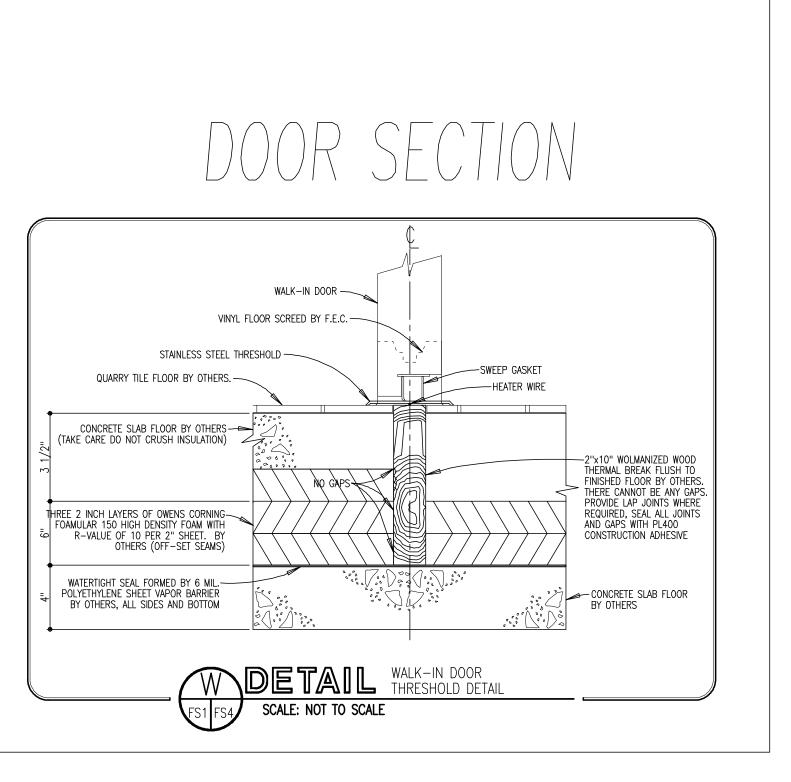
Panel Designation	n: LP-D					1	Main	n: 1	150A	MCB			P-P V	oltage:	208		
Panel Location		Bussing: 150A Ground Bus: STANDARD								P-N Voltage: 120							
Fed Fron											Phase:						
Feeder Size						URFA			Wire: 4								
EXISITING PANE		10					0.0750.060		00%	ACE.	AAim	Min SC Interrupting Rating: EXISTING					
EXISIING FAN								- X.S	()		1			27.	EXISIING		
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	-	A		СК	r OC Prot	nonC Load	Cont Load	Recept Load	Light Load	g		
LIGHTS - NORTHEAST EQUIPMENT STORAGE	850			R	20	-	X		2	125 M 145 M				460	LIGHTS- ELECTRICAL ROOM & COMP. ROOM		
LIGHTS- GIRLS SHOWER ROOM	620				20	3)	<	4	25		1440		665	COOLER HEATER/LIGHTS		
LIGHTS- GIRLS SHOWER ROOM	620				20	5)	X 6	20				480	LIGHTS- KITCHEN CANOPY		
FLOOD LIGHTS- NORTH & EAST	1150				20	7	X		8	20				390	LIGHTS- KITCHEN STORAGE & JAN. STORAGE		
FLOOD LIGHTS- SOUTH SIDE	800				20	9)	(10	20				280	BOILER ROOM LIGHTS		
FLOOD LIGHTS- SOUTH & EAST	775	0		2	20	11		>	X 12	20	2)- 2)-			280	LIGHTS- BOILER ROOM		
POLE LIGHTS- FRONT	650				20	13	X		14	20	20- 			880	LIGHTS- HALLWAY		
LIGHTS- FRONT PORTICO	900				20	15)	(16	20			360	-	SOAP DISPENSER PLUG		
LIGHTS- FRONT PORTICO	900				20	17		>	X 18	20	77		180		PLUG- NORTH TEACHER DINING ROOM		
PLUG- KITCHEN OFFICES		900		0 Ó	20	19	X		20	20	76		720		PLUGS- NORTH TEACHERS ROOM		
PLUG- KITCHEN OFFICES		1080		6 93	20	21)	(22	25	2	1440		665	FREEZER HEATER/LIGHTS		
KITCHEN OFFICE RECEPTACLE		180			20	23		>	X 24	20		720			EXHAUST FAN #6		
UNIT VENT #38 TEACHERS ROOM			600		20	25	X		26	20	-		360		REC. ELEC RM, KITCHEN STR. JANITOR STR.		
UNIT VENT #38 SERVING ROOM		i i	600	6 ÷	20	27)	(28	20		500			TIME CLOCK		
PLUG-WEST TEACHERS ROOM		540		с — А	20	29		>	X 30	30	22			100	LIGHTS- REAR PARKING LOT		
DISPOSAL TEACHERS ROOM				500	20	31	x		32	30	<u>.</u>			1120	LIGHTS- FRONT PARKING LOT		
FS TU					20	33)	<	34	20				500	SIGN		
SIGN	500	2		0	20	35		>	X 36		-	1019					
		*		5403	6227376	37	x	-	38	20	2	1019					
PANEL RPH				5403	60	39)	(40						SPACE		
				5403	1	41		>	X 42	-		1			SPACE		
						3860											
		Connec	ted Load				Dem	an	d			Deman	d Load				
Load Description	ØA	ØB	ØC	Total			Fac	tor	r		ØA	ØB	ØC	Total	-		
Lighting or Continous Load (Volt-Amps)	5500	4430	3655	13585			1.	00			5500	4430	3655	13585			
180VA Receptacle Load (Volt-Amps)	3100	1440	900	5440		1.00) (Firs	t 10	0kVA)		3100	1440	900	5440	Receptacle Demand Factor per Article 220.44		
	Am	nount ove	er 10kVA	0		0.50 (> 10kVA)					0	0	0	0	of the National Electrical Code.		
Continuous Load (Volt-Amps)	1619	3980	1739	7338			1.	00			1619	3980	1739	7338			
Non-Continuous Load (Volt-Amps)	5903	5403	5403	16709			0.	90			5313	4863	4863	15038	1°		
Total Load (kVA)	16.12	15.25	11.70	43.07	125%	of Lic	ht/C	ont	and	Recept	15.53	14.71	11.16	41.40			
Total Ampacity (Amps)		127.0	97.4	119.6	100					er load	129.3	122.5	92.9	114.9	1		
Minimum Feeder Sizing (Amps)	152.2	139.2	< F	per N	EC A	rtic	le 21	5.2>	147.2	134.7	102.4	128.1					

Panel Designa	ation: RP-D						Mai	n:	50/	AN	ЛСВ			P-P V	oltage	208	
Panel Loco	Bussing: 150A Ground Bus: STANDARD										oltage						
Fed F											Phase						
Feeder		Nou									Wire						
				- THE CO-C-			-		SC Into	w							
NEW PANEL									00%	0				1		EXISITNG	
emarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø	Ø Ø B Ø	c	KT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks	
ROOM		1080			20	1	X			2	20			360		PLUGS- GIRLS SHOWER ROOM	
ROOM		900			20	3		X	_	4	20			540		PLUG- NORTH GYM	
MOM		900			20	5)	X I	6	30	500				HAIR DRYERS	
				500	20	7	X		1	8		500					
				500	20	9		X	1	0	20	500				HAIR DRYER GIRLS LOCKER ROOM	
		720			20	11)	K 1	2	20	500				HAIR DRYER GIRLS LOCKER ROOM	
YM HALL		360			20	13	X			4	20			540		PLUGS- CORRIDOR, STORAGE, & OUTSIDE	
litchen east		540			20	15		X	1	6	20			360		PLUGS- GIRLS LOCKER & MECH ROOM	
OLER EVAP FAN		180	216		20	17)	K 1	8	20			180		PLUG- GYM NORTH	
NG ROOM.		360			20	19	X		2	20	20		500	360		PLUGS & COOLER EAST KITCHEN	
VING ROOM		540		5 C	20	21		X	2	2	20			1080		FLOOR PLUG- KITCHEN/FAN ON OVEN	
VING ROOM		900			20	23)	K 2	24	20			1080		FLOOR PLUG- KITCHEN/FAN ON OVEN	
					20	25	X		2	26	20			900		FLOOR PLUG- SERVING ROOM	
			1200	5	20	27		X	2	8	20			720		FLOOR PLUGS- SERVING ROOM	
OOM		360			20	29)	K 3	10	20			1080		FLOOR PLUGS- SERVING ROOM	
NG ROOM				500	20	31	X		3	2	20			1080		FLOOR PLUGS- SERVING ROOM	
INING ROOM		180			20	33		X	3	4	20			1080		FLOOR PLUGS- SERVING ROOM	
0.00014		360		6		35)	K 3	16	20			1080		FLOOR PLUGS- SERVING ROOM	
GROOM		360		9 ie	20	37	X		3	8	e e e e e e e e e e e e e e e e e e e		2	500			
				500	00	39		x	4	0	20			500		3 Phase Plug in Kitchen East Wall	
				500	20	41)	X 4	2				500			
		1		-												1	
		Connect	ed Load				De	man	d				Demand	d Load]	
	ØA	ØB	ØC	Total			Fo	ctor				ØA	ØB	ØC	Total]	
ad (Volt-Amps)	0	0	0	0			1	.00				0	0	0	0]	
Volt-Amps)	4820	6440	7340	18600		1.00) (Fi	rst 1(OkVA	4)		2591	3462	3946	10000	Receptacle Demand Factor per Article 220.4	
	Amount over 10kVA 8600						0.50 (> 10kVA)						1489	1697	4300	of the National Electrical Code.	
nps)	500	1200 216 1916 1.00			500	1200	216	1916	1								
olt-Amps)	1500	1500	1500	4500						1350	1350	1350	4050	1			
	6.82	9.14	9.06	25.02	125% of Light/Cont and Recept						ecept	5.56	7.50	7.21	20.27	1	
	56.8	76.1	75.4	69.4	(<10kVA) load plus other load							46.3	62.5	60.0	56.3	1	
(Amps)	62.2	2 83.3 83.6 76.4 < per NEC Article 215.2>							15.2	2>	51.7	69.7			1		









WAKELY ASSOCIATES, INC. ARCHITECTS 30500 VAN DYKE AVENUE SUITE 209 WARREN, MICHIGAN 48093 PH: 586.573.4100 FX: 586.573.0822 www.WakelyAlA.com FSD **Food Service Designs, L.L.C** 9201 Funston White Lake, MI 48386 ph. (248) 410–3459 FOODSERVICE DESIGNERS OPERATIONAL CONSULTING AND PLANNERS SERV REPL/ ZER .SID FRE 100 AM \bigcirc S Υ \overline{O} C PUBL PRO ODS 0M THORN RREN \geq WA **H** FOODSERVIC EQUIPMENT PLAN PRELIMINARY DESIGN DEVELOPMENT CONSTRUCTION FINAL RECORD DRAWN BY ____RDM CHECKED BY_RDM REVISIONS
 OWNER REVIEW
 02/28/2025

 BIDS
 03/11/2025
 DATE: MARCH 11, 2025 SHEET NO. FSE-4 ^{јов NO}24203С