# WEST MIDDLE SCHOOL SERVERY REMODEL - BID PACKAGE 2: CONSTRUCTION

# PORTAGE PUBLIC SCHOOLS

Portage, Michigan CONSTRUCTION DOCUMENTS

**DESIGN TEAM** 

ARCHITECT/ENGINEER

242 E. KALAMAZOO AVE, SUITE 100 FAX: 269.343.6633

REFERENCED CODES

**ENERGY**: **PLUMBING: MECHANICAL FUEL GAS: ELECTRICAL**: **BARRIER-FREE:** USE GROUP: **CONSTRUCTION TYPE: AUTOMATIC SPRINKLERS:** 

**PROJECT AREA** 

TOTAL FINISHED PROJECT:

1,540 SQ. FT.

FOOD SERVICE CONSULTANT



401 HALL ST SW, SUITE 185H GRAND RAPIDS, MI 49503 PHONE: 616.454.4433

DRAWING INDEX

**GENERAL** G 001 COVER SHEET

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**ARCHITECTURAL** 

A 101 FIRST FLOOR PLAN & REFLECTED CEILING PLAN

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MG 001 MECHANICAL & PLUMBING GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

PLUMBING DEMOLITION PD 001 FOUNDATION PLUMBING DEMOLITION PLAN

PD 101 PLUMBING FIRST FLOOR DEMOLITION PLAN

MECHANICAL DEMOLITION

MD 101 FIRST FLOOR MECHANICAL DEMOLITION PLAN

PLUMBING

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M 101 FIRST FLOOR SHEET METAL PLAN

M 150 ROOF MECHANICAL PLAN M 201 FIRST FLOOR HVAC PIPING PLAN

M 501 MECHANICAL SCHEDULES AND DETAILS

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E 401 ELECTRICAL ONE-LINE DIAGRAMS

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TG 001 TECHNOLOGY SYMBOLS AND GENERAL NOTES

TECHNOLOGY DEMO

TD 101 FIRST FLOOR TECHNOLOGY DEMOLITION PLAN

**TECHNOLOGY** 

T 101 OVERALL FIRST FLOOR TECHNOLOGY PLAN T 101A FIRST FLOOR TECHNOLOGY PLAN

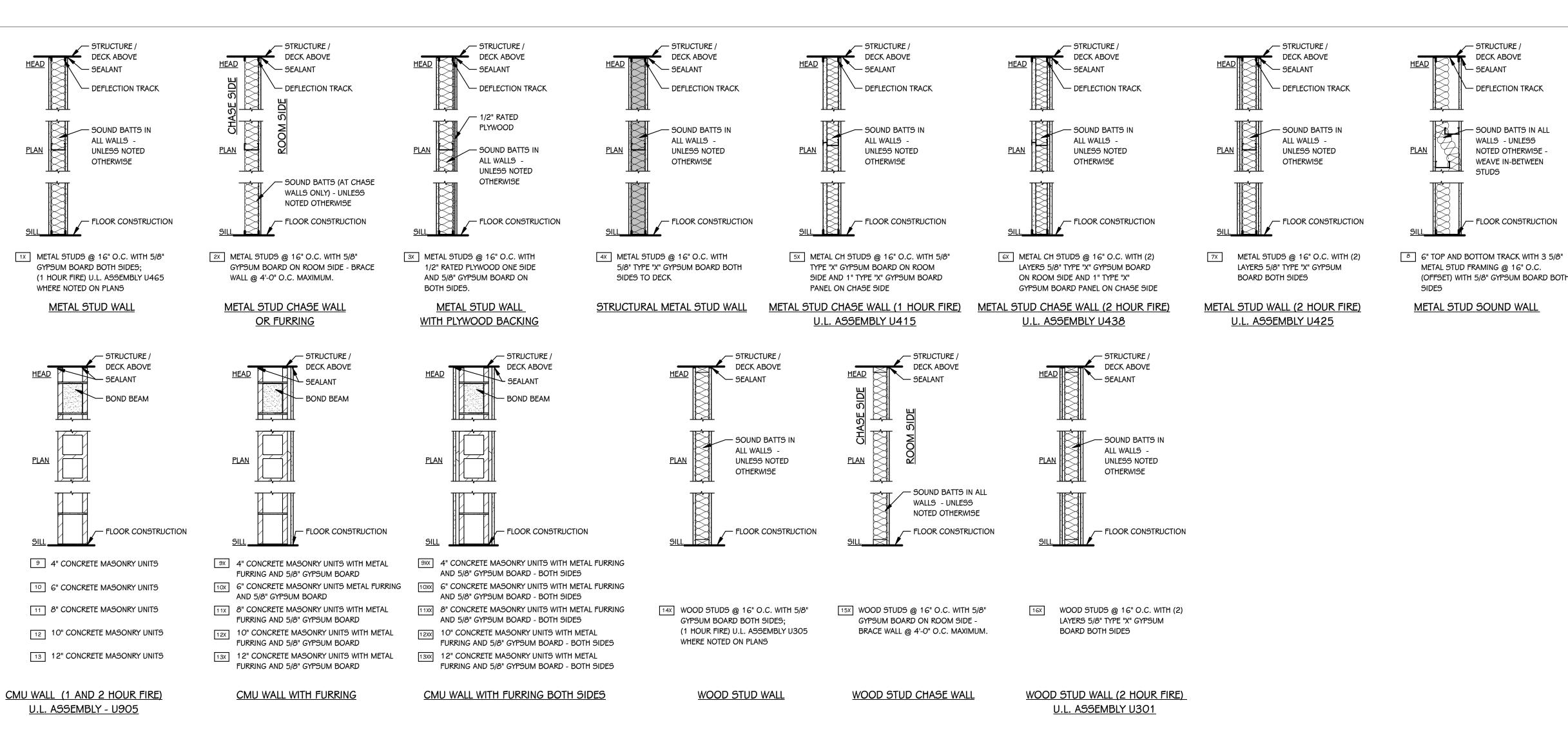
T 401 TECHNOLOGY DETAILS

SITE ADDRESS

WEST MIDDLE SCHOOL PORTAGE, MI 49024

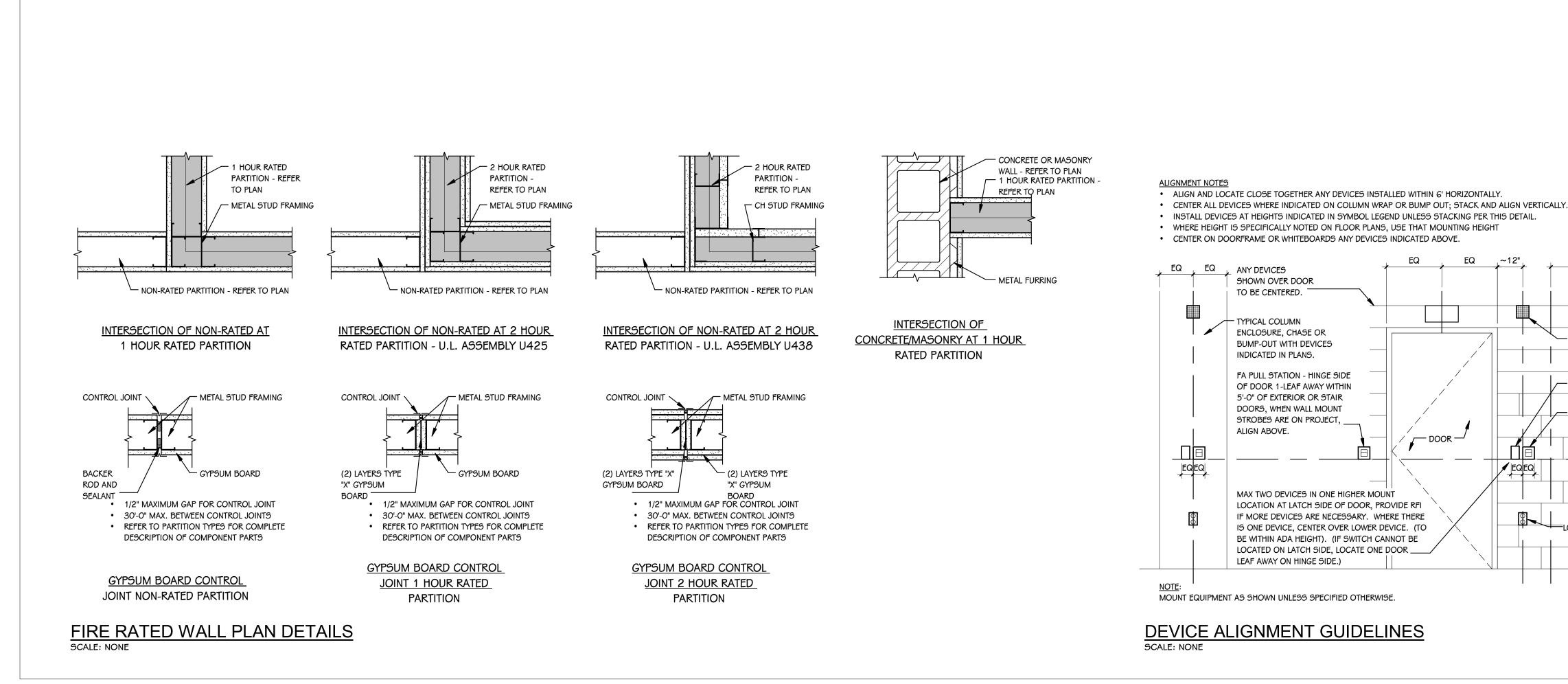


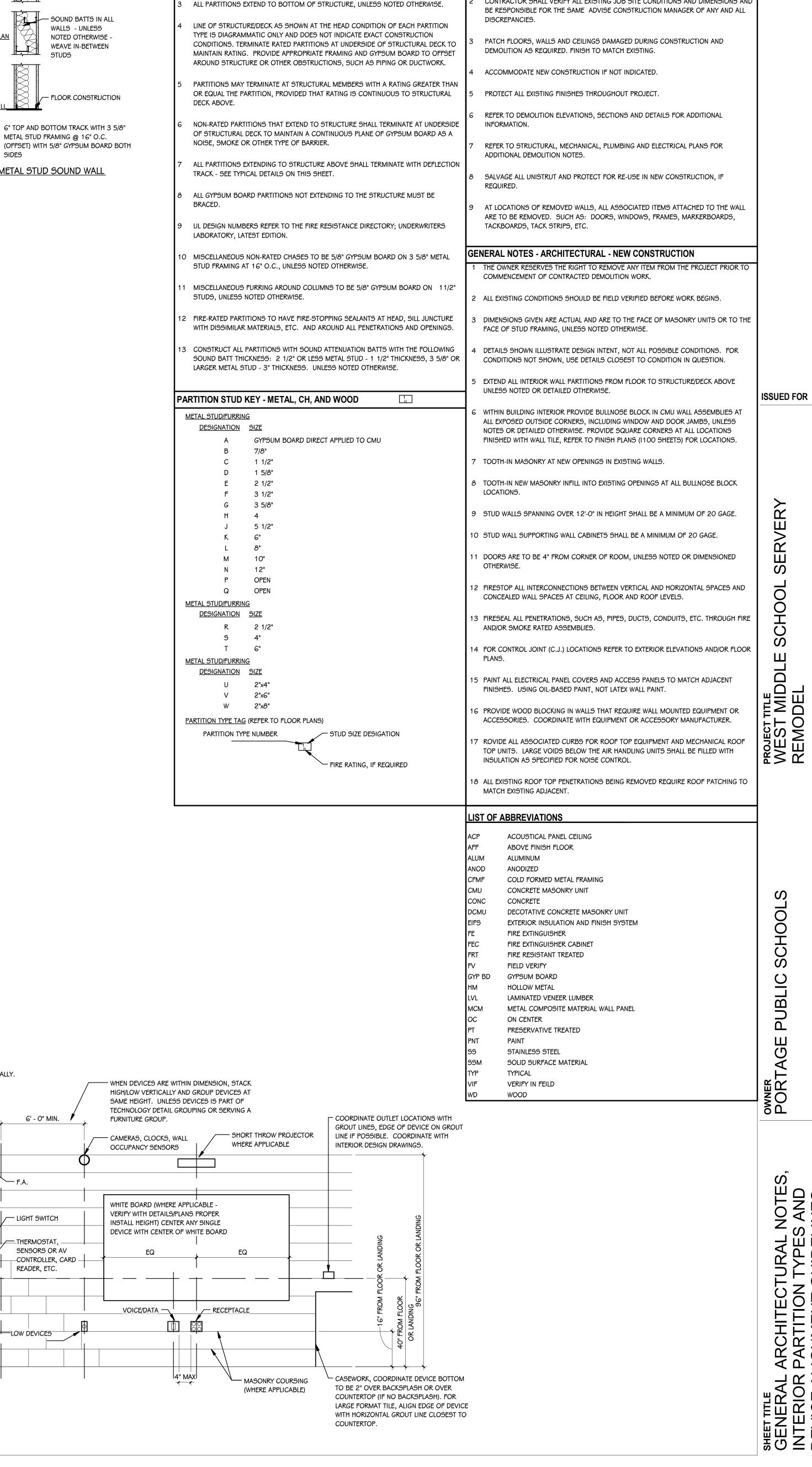




#### **INTERIOR PARTITION TYPES**

3/4" = 1'-0"





GENERAL NOTES - ARCHITECTURAL - DEMOLITION

ARE A PART OF, OR ATTACHED TO IT.

CONTRACTORS ARE REQUIRED TO INSPECT/REVIEW THE EXISTING BUILDING PRIOR TO

FLOOR OR CEILING INCLUDES ALL GENERAL MECHANICAL AND ELECTRICAL ITEMS WHICH

CONTRACTOR SHALL VERIFY ALL EXISTING JOB SITE CONDITIONS AND DIMENSIONS AND

RELATED DEMOLITION WORK. UNLESS NOTED OTHERWISE, REMOVAL OF ANY WALL,

GENERAL NOTES - ARCHITECTURAL - PARTITIONS

REFER TO CODE COMPLIANCE PLANS FOR LOCATIONS OF SMOKE AND FIRE-RATED

NOT ALL WALL TYPES MAY BE USED ON PROJECT.

— STRUCTURE /

- SEALANT

6' - 0" MIN.

/ LIGHT SWITCH

LOW DEVICES

THERMOSTAT.

SENSORS OR AV

\_CONTROLLER, CARD \_ READER, ETC.

, ANY DEVICES

SHOWN OVER DOOR

TO BE CENTERED.

TYPICAL COLUMN

ALIGN ABOVE.

ENCLOSURE, CHASE OR

INDICATED IN PLANS.

BUMP-OUT WITH DEVICES

FA PULL STATION - HINGE SIDE

OF DOOR 1-LEAF AWAY WITHIN 5'-0" OF EXTERIOR OR STAIR

DOORS, WHEN WALL MOUNT

STROBES ARE ON PROJECT, \_

LEAF AWAY ON HINGE SIDE.)

MAX TWO DEVICES IN ONE HIGHER MOUNT

LOCATION AT LATCH SIDE OF DOOR, PROVIDE RFI

IF MORE DEVICES ARE NECESSARY. WHERE THERE

IS ONE DEVICE, CENTER OVER LOWER DEVICE. (TO

BE WITHIN ADA HEIGHT). (IF SWITCH CANNOT BE LOCATED ON LATCH SIDE, LOCATE ONE DOOR \_\_\_\_ - DEFLECTION TRACK

CMU INFILL

REQ'D, THIS SIDE ONLY, DOOR TO REMAIN

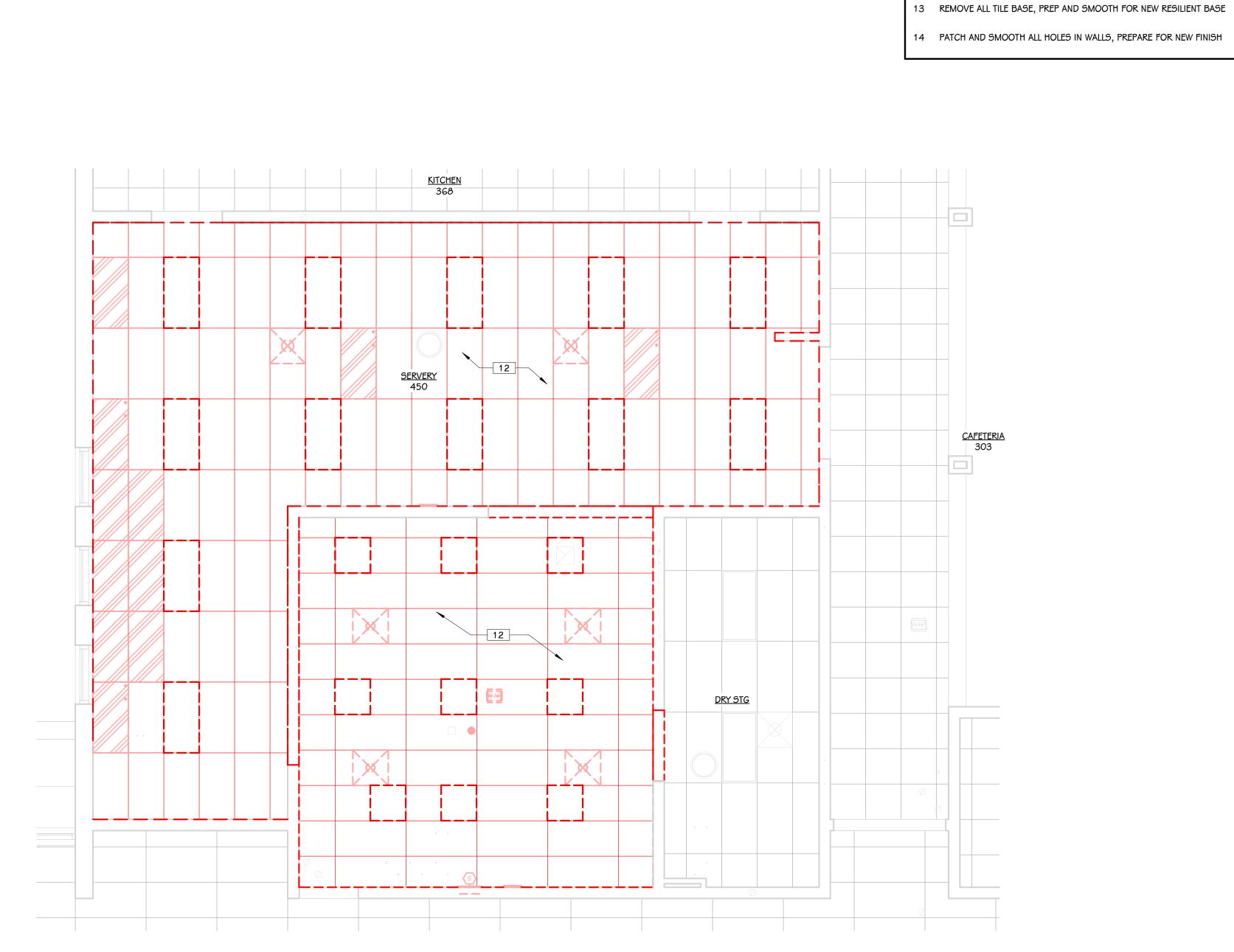
PATCH AND SMOOTH HOLES IN FLOOR

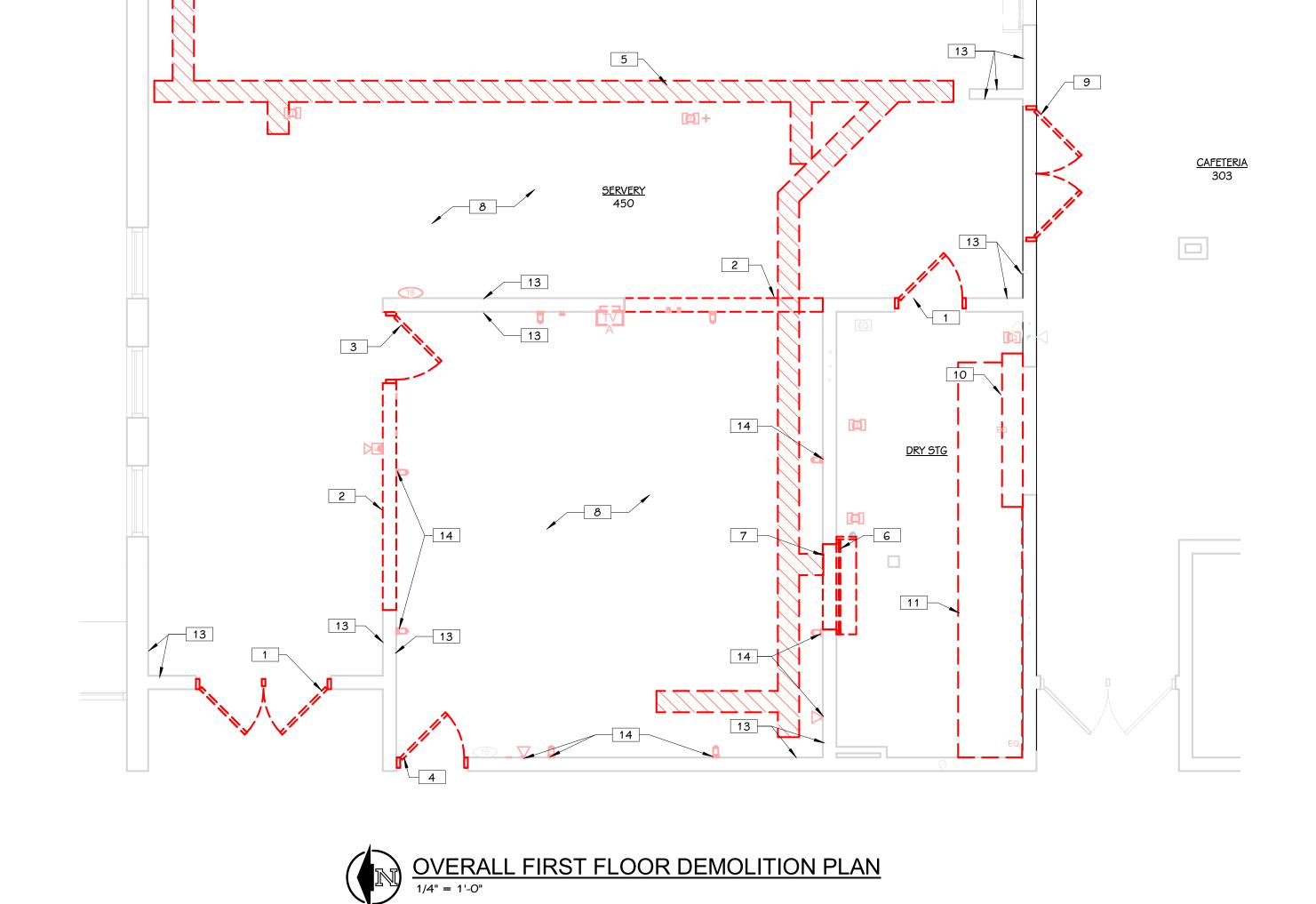
1 REMOVE AND DISCARD ALL FLOOR MOUNTED WORKSURFACES, THIS ROOM ONLY,

12 REMOVE AND DISCARD CEILING PANELS, GRID, AND SUSPENSION SYSTEM

ISSUED FOR

SHEET TITLE
FIRST FLOOR DEMOLITION PI KEY PLAN
SCALE: NONE



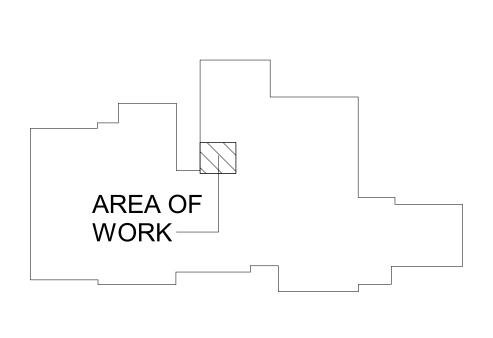


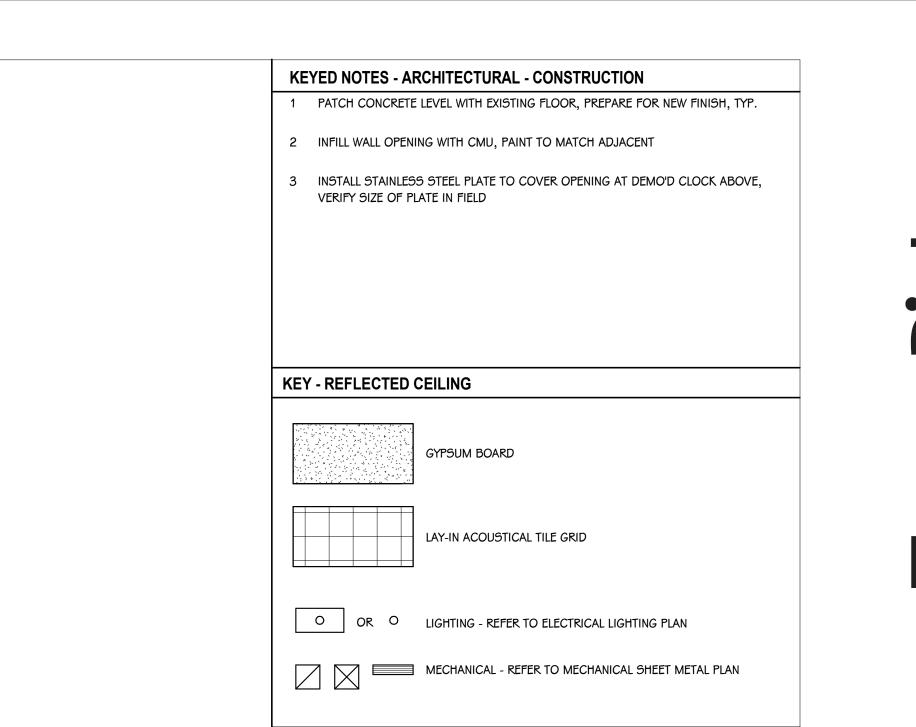
FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN

1/4" = 1'-0"

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

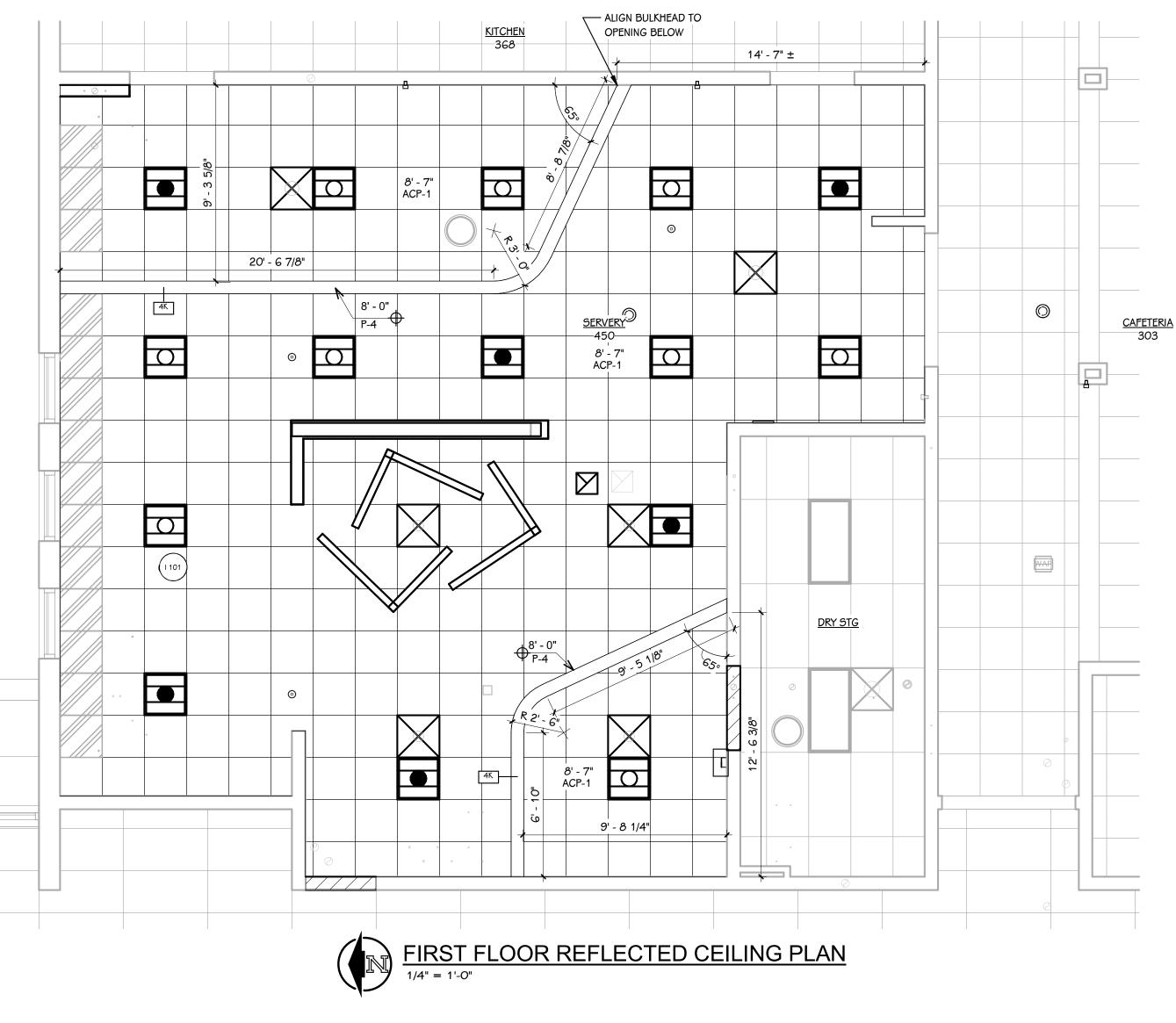
#### PORTAGE WEST MIDDLE SCHOOL

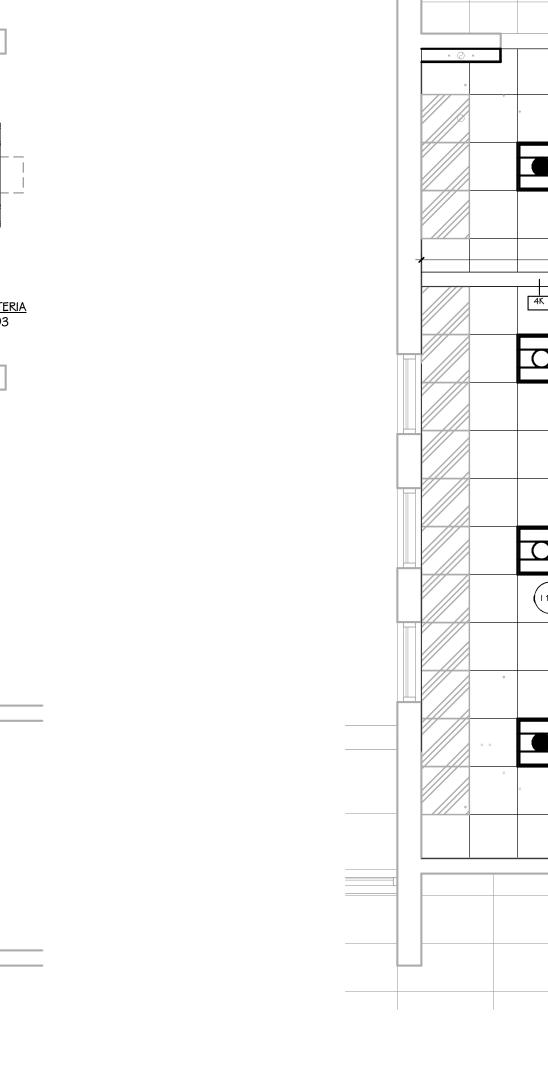


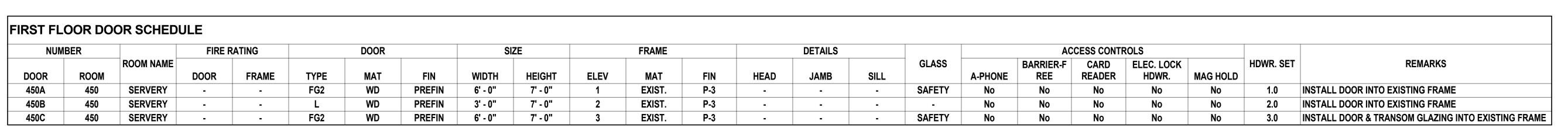


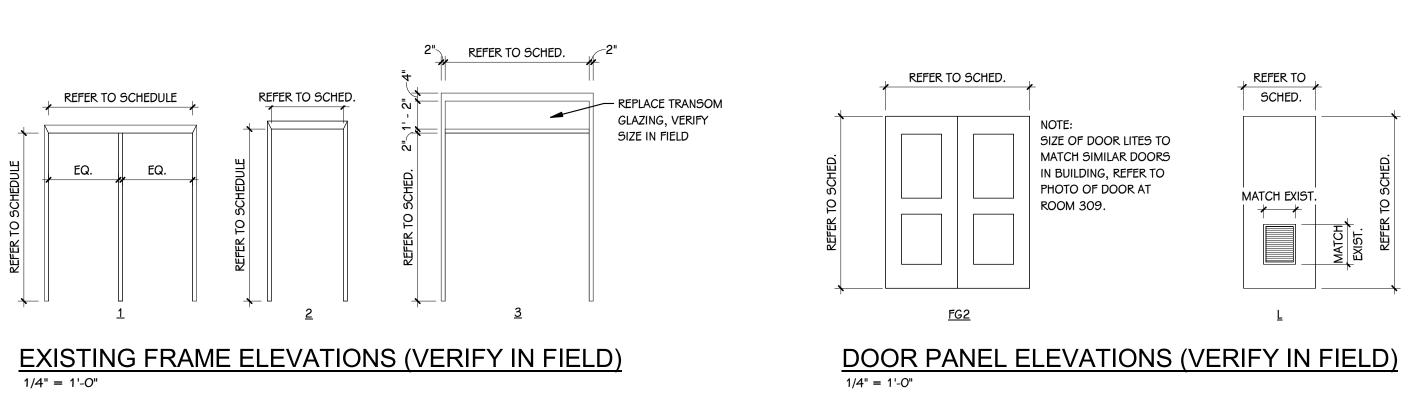
#### GENERAL NOTES - REFLECTED CEILINGS

. WHERE CEILING TILE IS LESS THAN 3" AT PERIMETER OF ROOM PROVIDE A CUT 2x4 TILE IN LIEU OF FULL 2x2 TILE AND SMALL PIECE OF TILE OR DOUBLE GRID - MATCH 2x2 FOR STYLE AND COLOR.









FIRST FLOOR PLAN

1/4" = 1'-0"

/- ALIGN WALL WITH

1101 2



PORTAGE WEST MIDDLE SCHOOL AREA OF WORK-

KEY PLAN SCALE: NONE

SHEET TITLE
FIRST FLOOR PLAN 8
CEILING PLAN

AN ACCURATE DRAWING

SHEET NUMBER 16 00 1 23-186.00

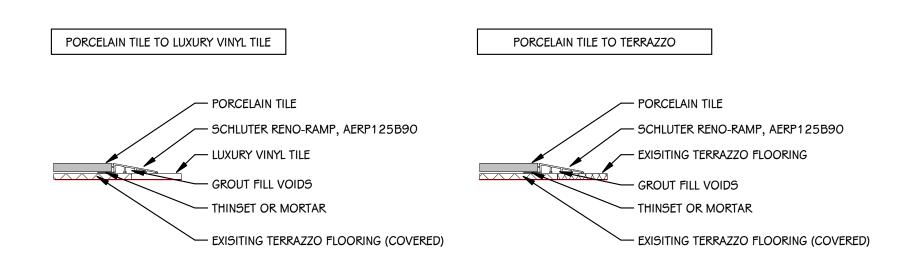
## MATERIAL SELECTION SCHEDULE

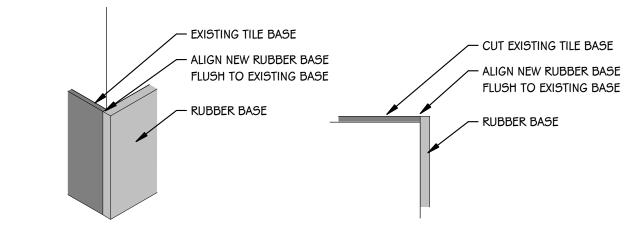
ABBREV	ITEM	MANUFACTURER	PATTERN	COLOR	PRODUCT NO.	SIZE	SINGLE SOURCE	BASIS OF DESIGN	ADDITIONAL MANUFACTURERS	REMARKS
ACP-1	ACOUSTIC CEILING PANEL	ARMSTRONG CEILINGS	KITCHEN ZONE	WHITE	673	24" X 24" X 5/8"		Х	CERTAINTEED, ROCKFON, USG	15/16 SQUARE LAY IN   LRV: .89   CAC: 33   SCRUBBABLE PAINTED FINISH   SMOOTH TEXTURE
CG-1	CORNER GUARD	CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARD	STAINLESS STEEL	CO-8	8' H X 2.5" WING - CUT TO 6'-8"		Х	CONSTRUCTION SPECIALTIES, PAWLING, KOROGUARD	
GVWC-1	GRAPHIC VINYL WALL COVERING	MDC WALL COVERINGS	DIGITALLY PRINTED WALLCOVERING	CUSTOM GRAPHIC			Х			STANDARD VINYL TEXTURES   TYPE II WALL COVERING   PROTECTIVE FINISH   ARCHITECT TO COORDINATE FINAL DESIGN WITH OWNER AND MANUFACTURER   REFER TO QUOTE NUMBER 53132
IRWP-1	IMPACT RESISTANT WALL PROTECTION	INPRO	PALLADIUM RIGID SHEET	CLAM SHELL	0154	4' x 8'	х			FULL HEIGHT
P-1	PAINT	SHERWIN WILLIAMS		DRIFT OF MIST	SW 9166		Х			FIELD PAINT
P-2	PAINT	SHERWIN WILLIAMS	KRYLON	CHALKBORAD PAINT - BRUSH ON				Х	BENJAMIN MOORE, PITTSBURGH PAINTS	CHALKBOARD PAINT
P-3	PAINT	SHERWIN WILLIAMS		GAUNTLET GREY	SW 7019		Х			DOOR FRAMES
P-4	PAINT	SHERWIN WILLIAMS		INKY BLUE	SW 9149		Х			BULKHEADS SULKHEADS
PT-1	PORCELAIN TILE	ATLAS CONCORDE USA	HOMELAND	RYE		8" X 40", NOMINAL	Х			1/3 BOND INSTALLATION
RB-1	RUBBER BASE	JOHNSONITE	MANDALAY MILLWORK WALL BASE	MOON ROCK	MW-29-H	4.5" H X .375" DEPTH	Х			
55M-1	SOLID SURFACE MATERIAL	CORIAN		ARTISTA DUST		REFER TO DETAILS	Х			
VG-1	VINYL GRAPHIC		CUSTOM VINYL GRAPHIC	WHITE		REFER TO ELEVATIONS		Х	AGIO IMAGING, KALBLUE	VINYL LETTERING TO BE SURFACE APPLIED. ARCHITECT TO COORDINATE FONT, COLORS, AND FINAL GRAPHIC WITH OWNER.
/WC-1	VINYL WALL COVERING	WOLF GORDON	RAMPART ENNIS	BREEZE	GOH 32910125	52" WIDTH	Х		TYPE III	

GENERAL NOTES - MATERIAL SELECTION SCHEDULE

1 NO COMPARABLE PRODUCTS OR PRODUCT SUBSTITUTIONS WILL BE REVIEWED FOR PRODUCTS DESIGNATED AS SINGLE SOURCE.
2 COMPARABLE PRODUCTS WILL BE REVIEWED FOR ITEMS LISTED AS BASIS OF DESIGN. COMPARABLE PRODUCTS ARE REQUIRED TO MEET ANY MINIMUM PERFORMANCE REQUIREMENTS LISTED IN REMARKS AND APPERANCE OF SPECIFIED PRODUCT.

3 REFER TO TYPICAL DETAILS AND PRODUCT SPECIFICATION FOR TRIMS AND ACCESSORIES ASSOCIATED WITH SPECIFIED PRODUCTS ABOVE.







RUBBER BASE AT EXISITING TILE BASE

3" = 1'-0"

OWELPINKSter

ISSUED FOR

TITLE

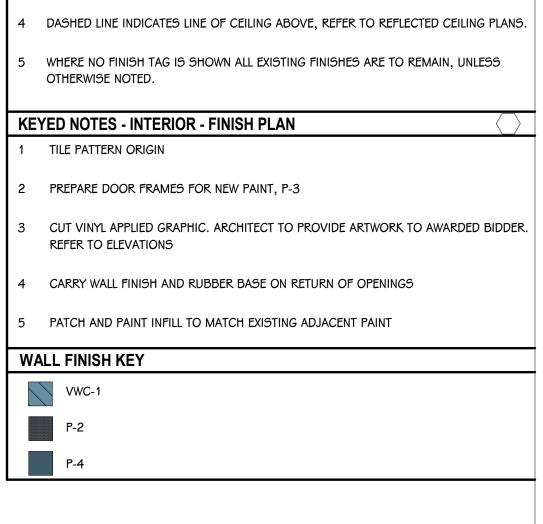
T MIDDLE SCHOOL SERVE

IC SCHOOLS

Portage, Michigan

DATE

SHEET NUMBER 16 002 23-186.00



ISSUED FOR

SHEET NUMBE 101 23-186.00

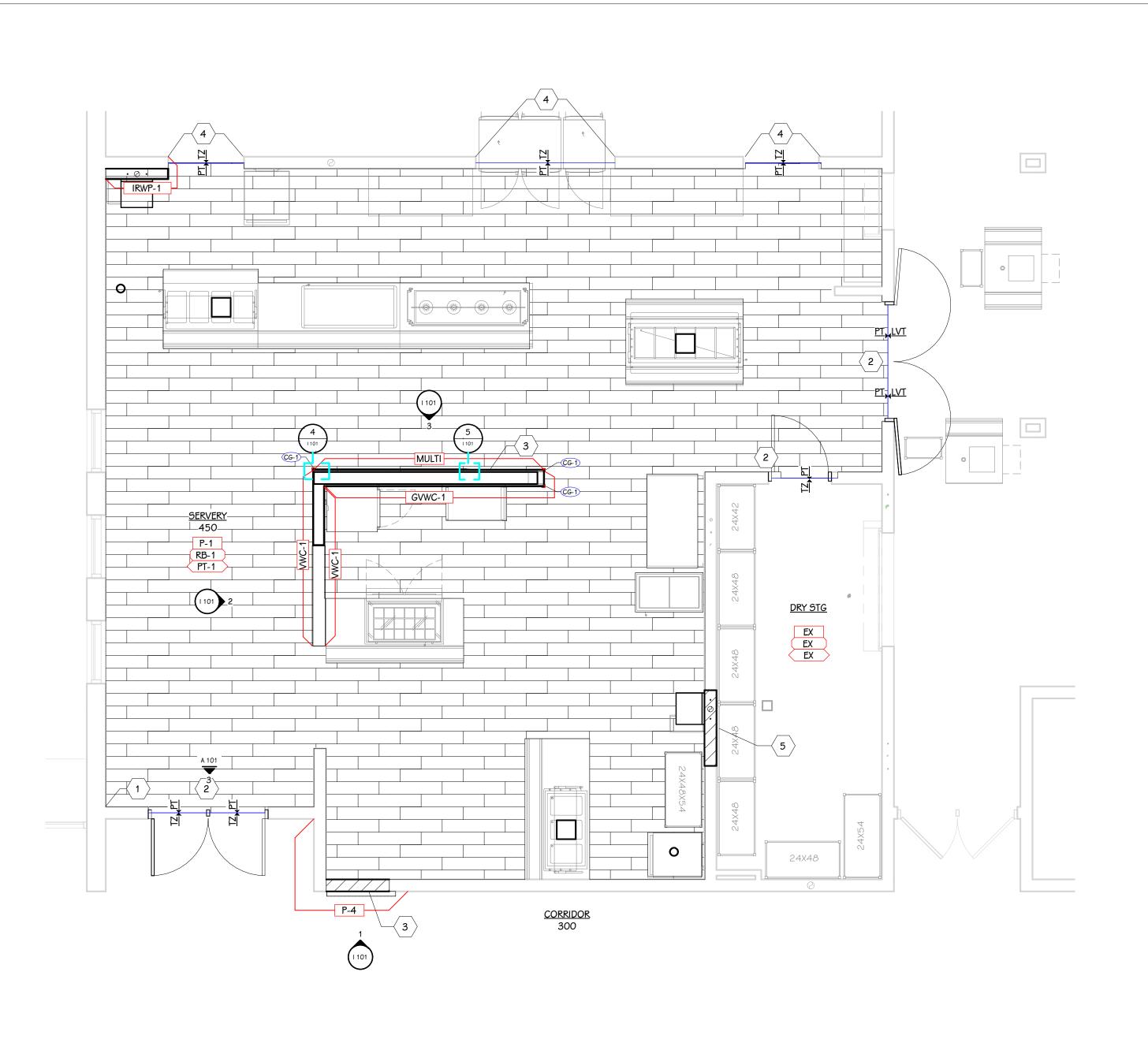
WORK-KEY PLAN SCALE: NONE

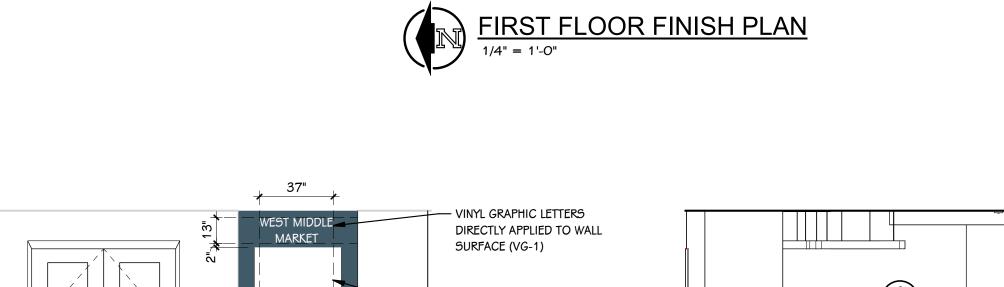
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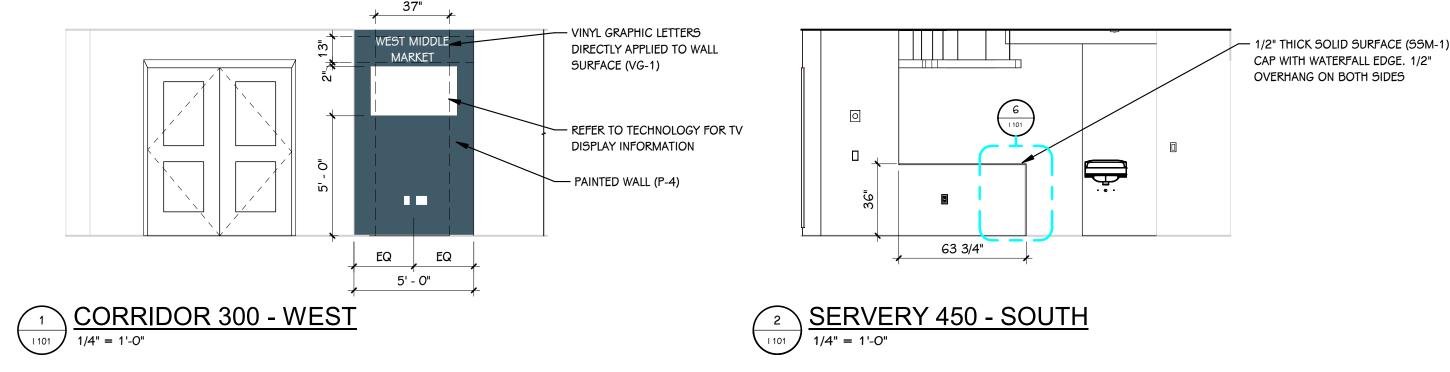
COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE,

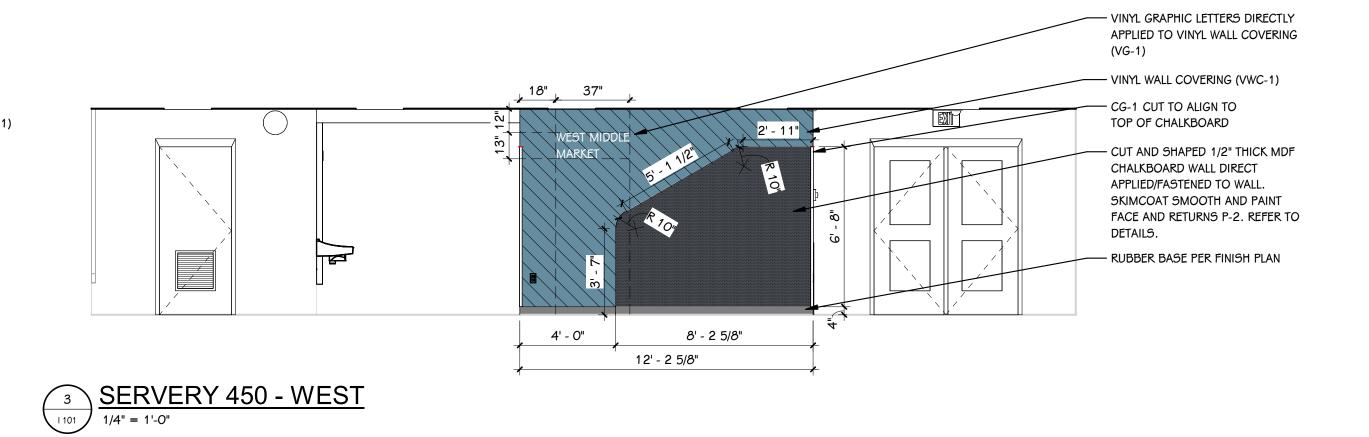
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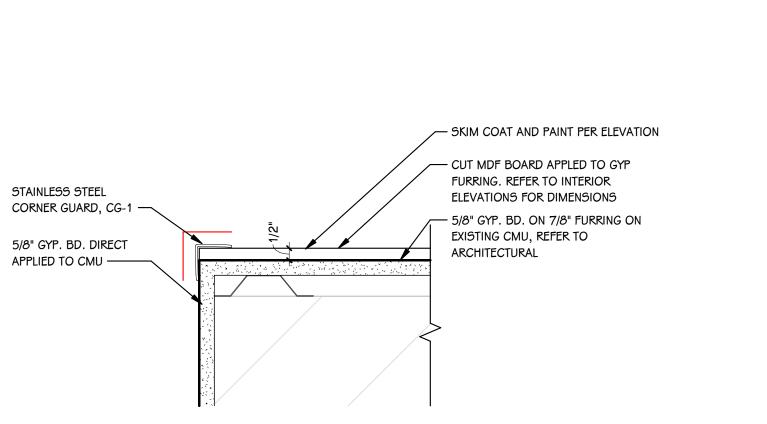
PORTAGE WEST MIDDLE SCHOOL





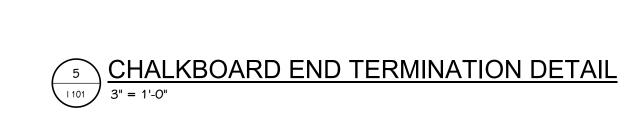






CHALKBOARD CORNER TERMINATION DETAIL

3" = 1'-0"



— SKIM COAT AND PAINT PER ELEVATION

FURRING. REFER TO ELEVATIONS FOR

- 5/8" GYP. BD. ON 7/8" FURRING ON

— CUT MDF BOARD APPLED TO GYP

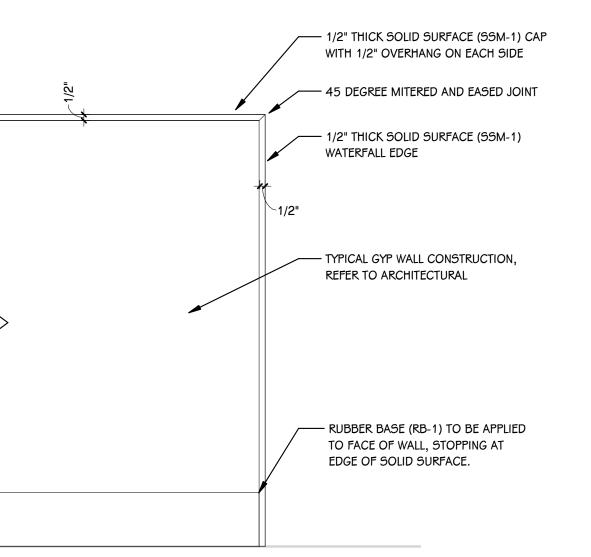
EASE ALL EDGES OF MDF BOARD,

PAINT RETURNS WITH P-2

EXISTING CMU, REFER TO

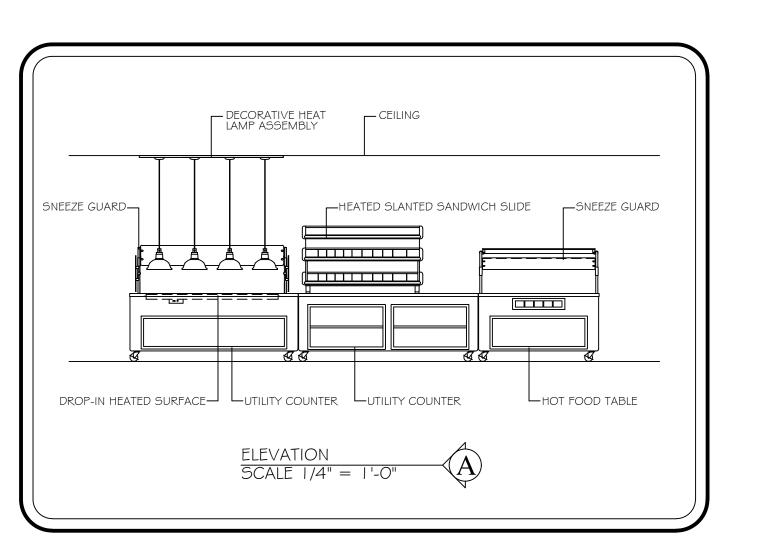
- CAULK JOINT

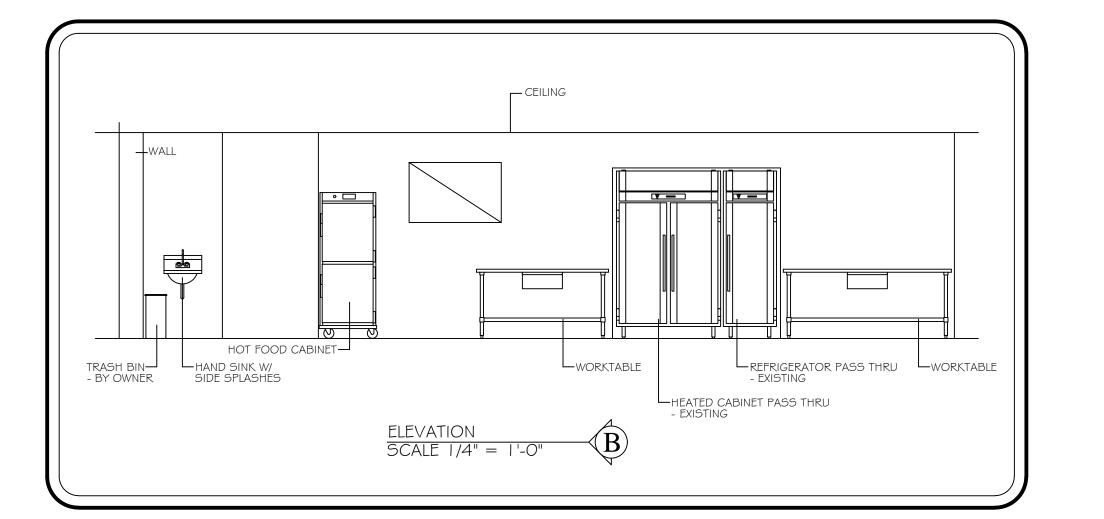
ARCHITECTURAL

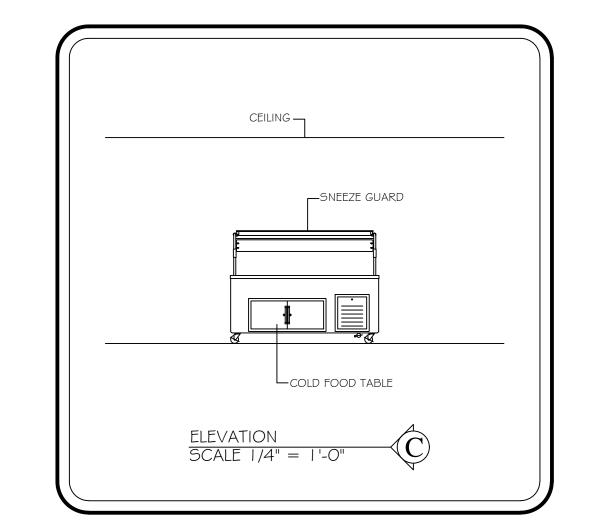


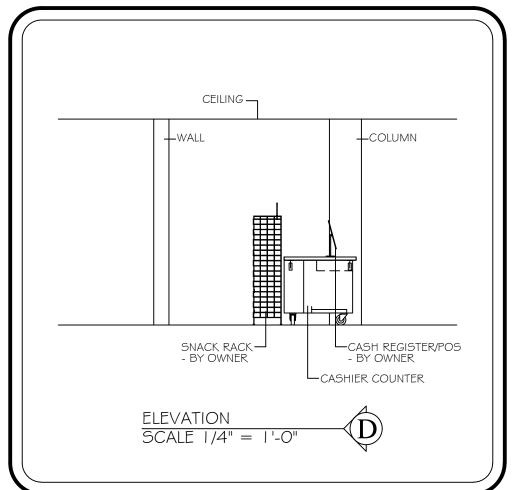
SOLID SURFACE WATERFALL EDGE DETAIL

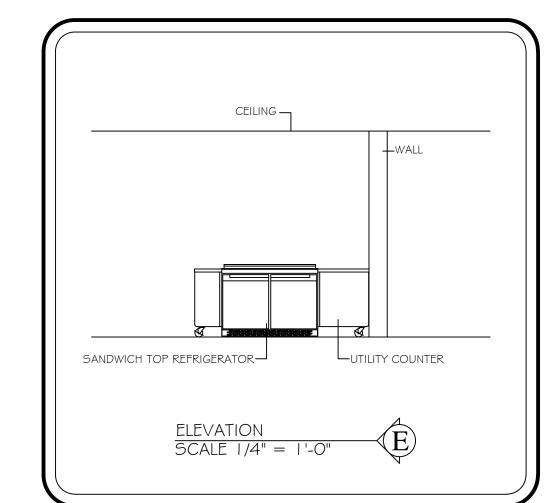
1 1/2" = 1'-0"

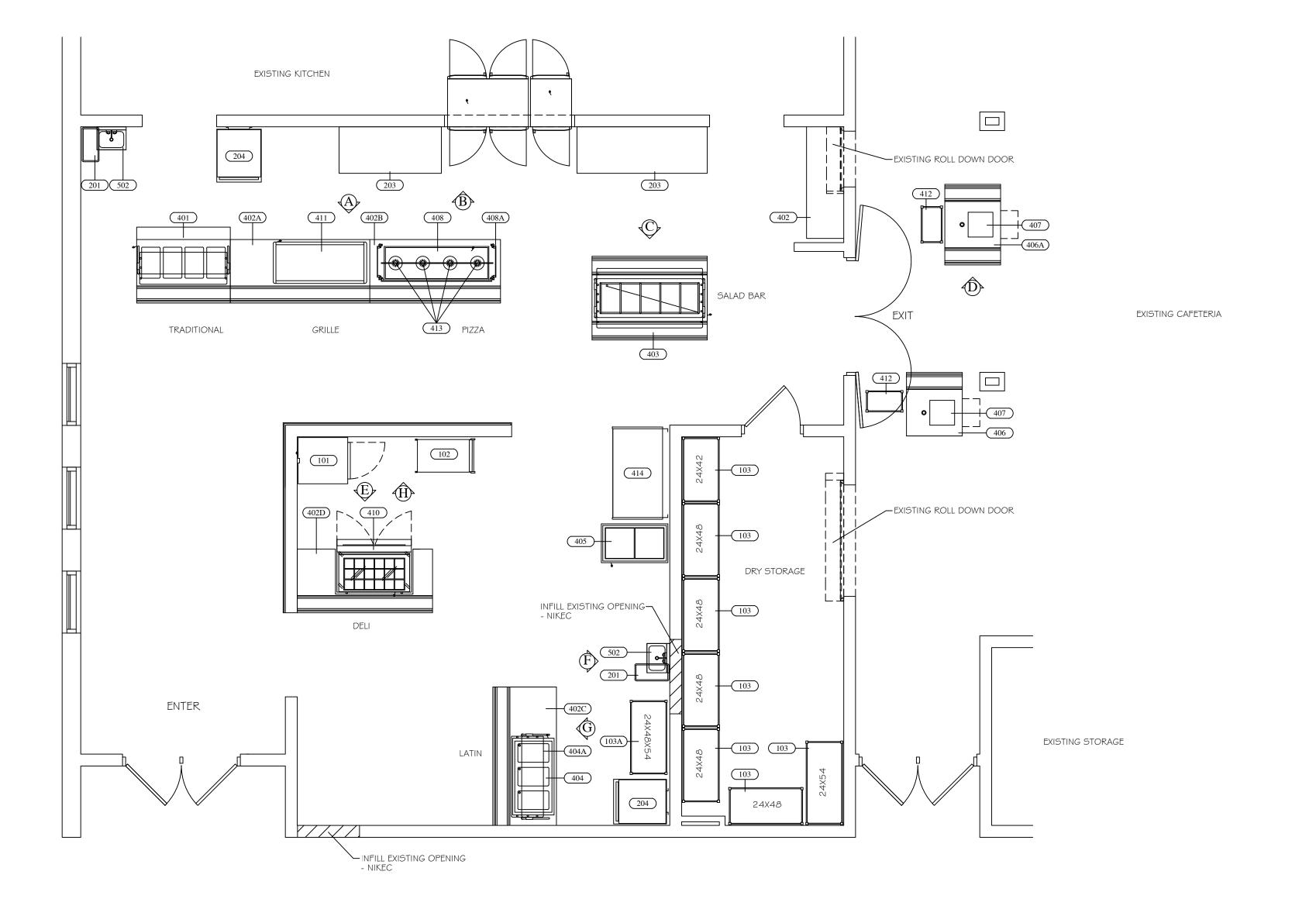


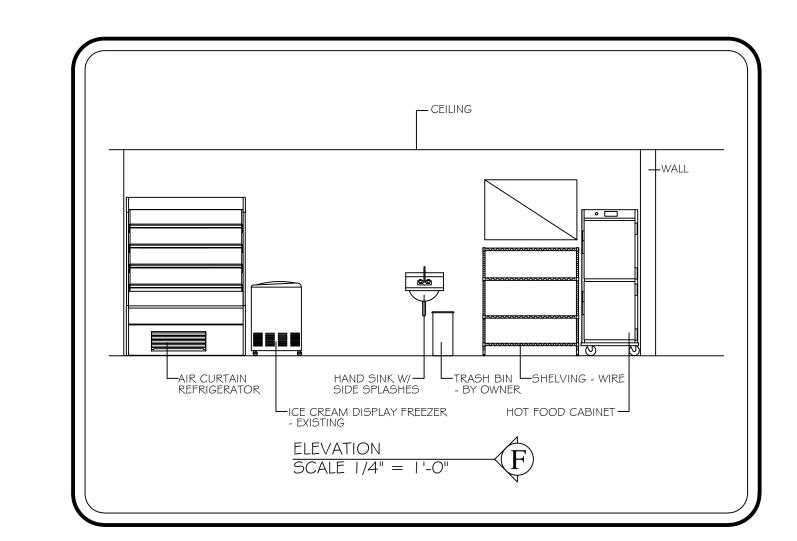


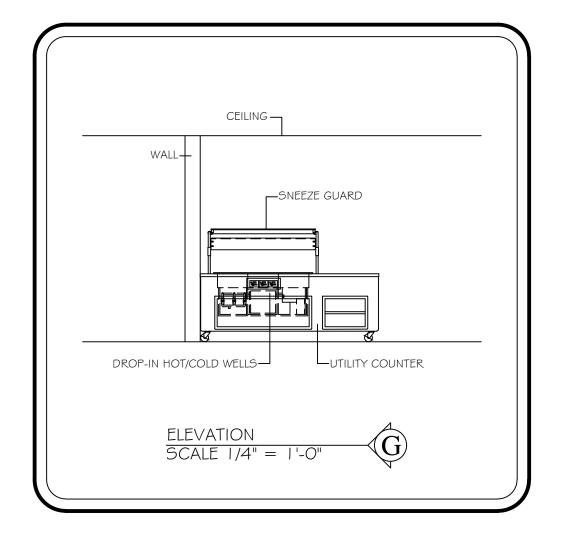


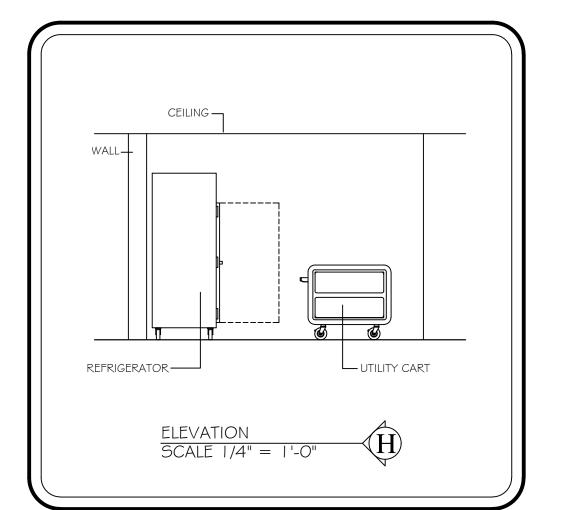












#### VIOTE:

1. VERIFY ROUGHIN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC.

- REUSE EXISTING ROUGHINS WHERE APPLICABLE.
- 3. DISCONNECT, REMOVE, STORE & RECONNECT ANY EXISTING EQUIPMENT AS REQUIRED FOR CONSTRUCTION PURPOSES.
- 4. EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED AND STORED OR DISCARDED AS DIRECTED BY OWNER.
- 5. EQUIPMENT DESIGNATED AS <u>RELOCATED</u> SHALL BE DISCONNECTED AND RELOCATED AS PER PLANS AND SPECIFICATIONS.

OWELPINKSTER Architecture · Engineering · Interiors

ISSUED FOR DAT

**≻** 

SCHOOL SERVER

EST MIDDLE SCHOO

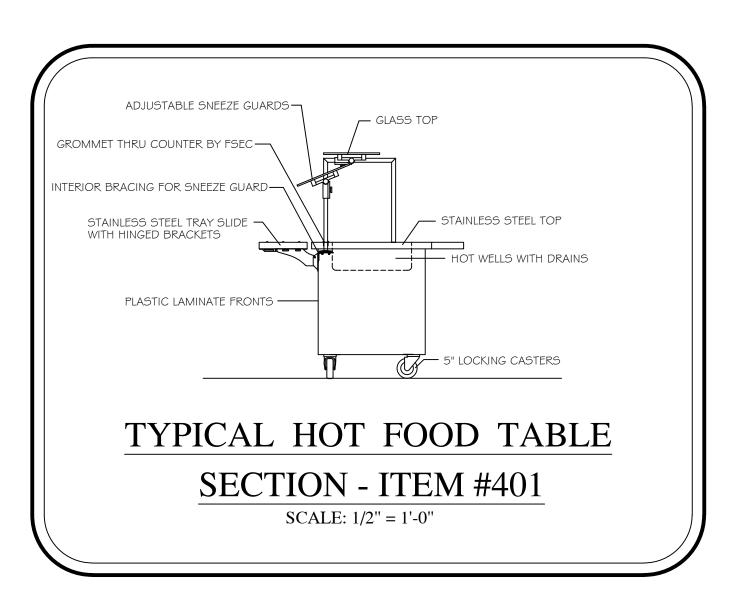
PROJECT TITLE WEST MI RFMODE

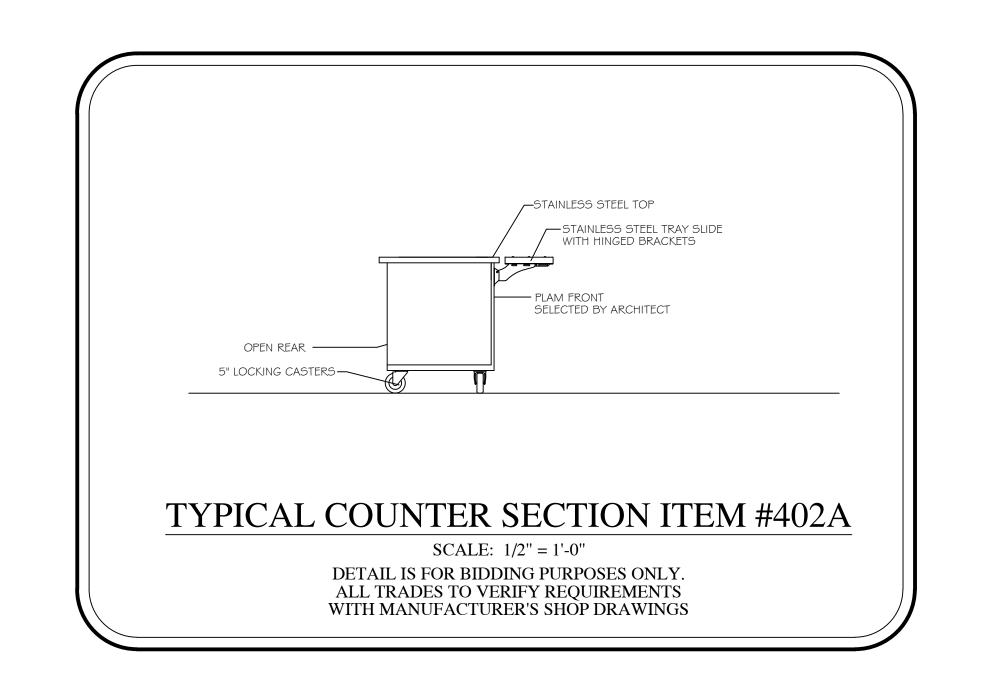
BLIC SCHOOL

IBER 21, 2023

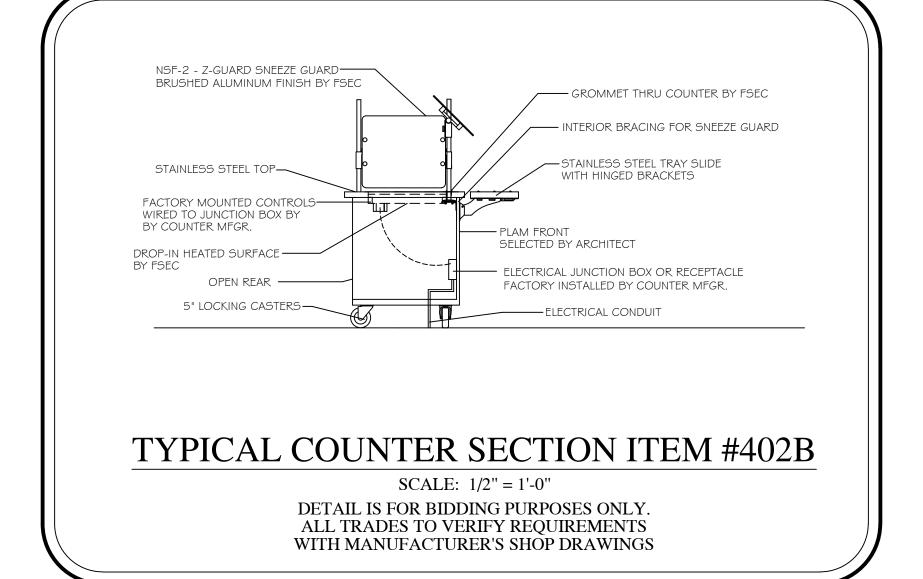
DECEMBER

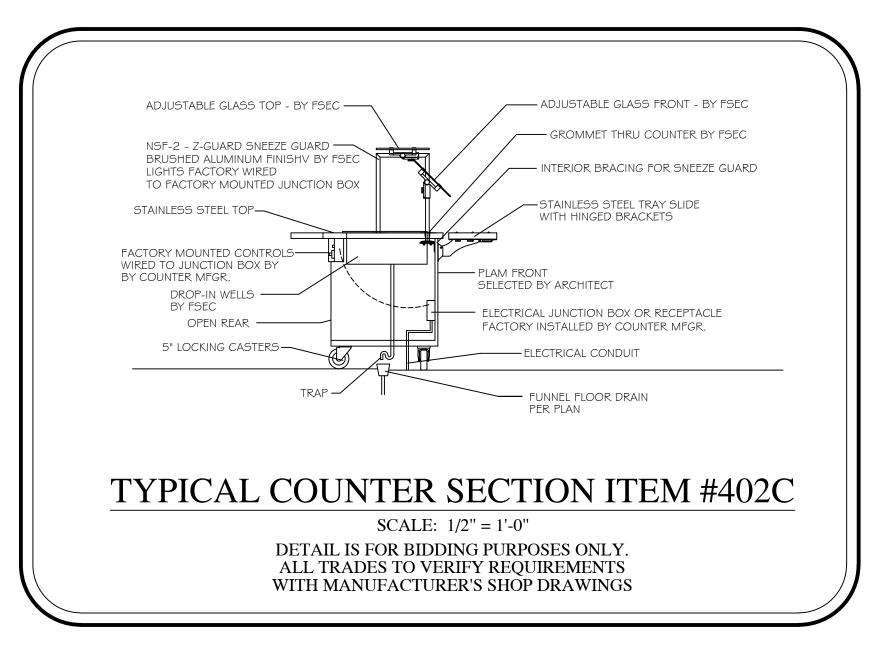
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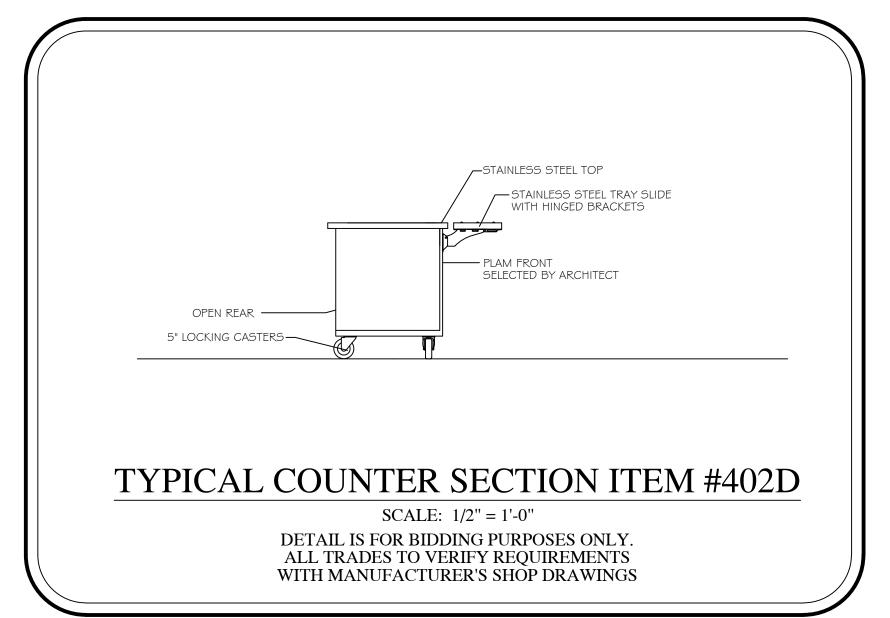


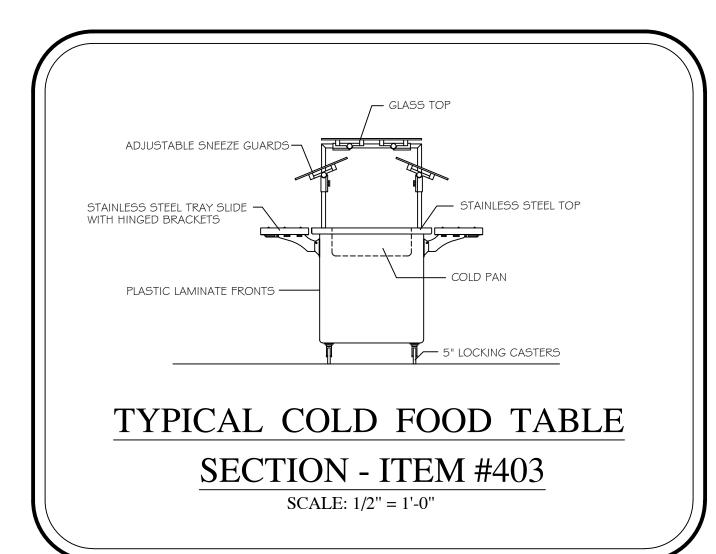












							EQU	JIPME	NT SCH	HEDULE	,					
Ite	em	Qty	DESCRIPTION	CW (in)	HW (in)	INDIRECT DRAIN	DIRECT DRAIN (IN) GAS (in)	MBTUH	EXH DUCT	EXH CFM	MUA DUCT	MUA CFM	Volts	Ph	Amps load	Equipment Remarks
	01		REFRIGERATOR										120	1	4.9	
10	02	1	UTILITY CART													
10	03	7	SHELVING - WIRE													4 TIER
10	3A	1	SHELVING - WIRE													4 TIER
20	01	2	TRASH BIN - BY OWNER													
20	02	1	SPARE NUMBER													
20	03	2	WORK TABLE													
20	04	2	HOT FOOD CABINET										120	1	12.0	UNIVERSAL ANGLES
30	01	1	SPARE NUMBER													
40	01	1	HOT FOOD TABLE			FL SK							120/208	1	20.4	
* 40	02	1	UTILITY COUNTER													
40	2A	1	UTILITY COUNTER													
40	2B	1	UTILITY COUNTER													
40	2C	1	UTILITY COUNTER													
40	2D	1	UTILITY COUNTER													
40	03	1	COLD FOOD TABLE			FL SK							120	1	9.5	
40	04	1	DROP-IN HOT/COLD WELLS			FL SK							120	1	18.2	
40	4A	1	SNEEZE GUARD										120	1	1.0	
** 4	05	1	ICE CREAM DISPLAY FREEZER										120	1	4.8	
40	06	1	CASHIER COUNTER													
40	6A	1	CASHIER COUNTER													
40	07	2	CASH REGISTER/POS - BY OWNER										120	1	10.0	DEDICATED CIRCUIT & DATA
40	08	1	DROP-IN HEATED SURFACE										120	1	11.1	
40	8A	1	SNEEZE GUARD													
40	09	1	SPARE NUMBER													
4	10	1	SANDWICH TOP REFRIGERATOR										120	1	4.8	
4	11	1	HEATED SLANTED SANDWICH SLIDE										120/208	1	18.4	
4	12	2	SNACK RACK - BY OWNER													
4	13	1	DECORATIVE HEAT LAMP ASSEMBLY										120	1	8.0	
4	14	1	AIR CURTAIN REFRIGERATOR										208	1	15.3	IF UNIT CANNOT BE CONNECTED TO GFCI BREAKER, THEN IT MUST BE HARD WIRED
	-		CD A DE AND CDED													
-	01		SPARE NUMBER													
50	02	2	HAND SINK W/ SIDE SPLASHES	0.5	0.5		1.5									SOAP & TOWEL DISPENSER - BY OWNER

★ OWNER'S EXISTING EQUIPMENT TO REMAIN \*\* OWNER'S EXISTING EQUIPMENT TO BE RELOCATED

NOTE:

1. VERIFY ROUGHIN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC.

2. REUSE EXISTING ROUGHINS WHERE APPLICABLE.

3. DISCONNECT, REMOVE, STORE & RECONNECT ANY EXISTING EQUIPMENT AS REQUIRED FOR CONSTRUCTION PURPOSES.

4. EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED AND STORED OR DISCARDED AS DIRECTED BY OWNER.

5. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED AND RELOCATED AS PER PLANS AND SPECIFICATIONS.

BID PACKAGE 1

### TRADE & FSEC NOTES:

- I. KITCHEN EQUIPMENT SHALL BE DELIVERED AND ERECTED
- 2. DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO F.S.E.C. DIMENSIONED
- ROUGH-IN DRAWINGS AND SHOP DRAWINGS FOR ACTUAL REQUIREMENTS.
- 3. SHALL MAKE ALL FINAL CONNECTIONS BETWEEN EQUIPMENT AND ROUGH-IN POINT, AND FURNISH ALL WIRING, SWITCHES, CONTROLS, SERVICE VALVES, PIPING, ETC AS REQUIRED.
- FURNISH DRAIN WATER TEMPERING KIT(S). 4. FURNISH AND INSTALL ALL EQUIPMENT ACCESSORIES (FAUCETS, SWITCHES,
- CORDS, VALVES, GAS HOSES, ETC.).
- 5. SLOPES TO FD'S SHOULD BE HELD TO A MINIMUM DIMENSION. 6. ALL "ROUGH-INS" SHOULD BE "UP-WITHIN" AND THEN "OUT-OF" WALLS WHERE
- POSSIBLE TO KEEP FLOORS AS CLEAN AS POSSIBLE. ROUGH-INS ARE SHOWN AT
- TERMINATION POINT TO ALLOW WIRING/PIPING TO FIXTURE.
- 7. PROVIDE CHASES/REWORK OF WALLS, FLOORS, CEILINGS FOR UTILITIES, FLOOR GRATES, WALKINS, DUCTS, ETC.
- 8. PROVIDE ACCESS HOLES IN EQUIPMENT FOR UTILITIES, PIPING, POS,
- BEVERAGE LINES, ETC.
- 9. PROVIDE VENTILATION, STRUCTURAL SUPPORT, CEILING WORK,
- ROOF PENETRATIONS AND FIRE PROOFING AS REQUIRED. I O. EXHAUST HOOD SHALL BE USED FOR VENTILATION OF COOKING EQUIPMENT ONLY.
- PROVIDE ROOM VENTILATION (A/C RECOMMENED) AS REQUIRED I . PROVIDE ADEQUATE VENTILATION FOR REFRIGERATION
- COMPRESSORS, WHETHER AIR OR WATER COOLED. 12. REVIEW ALL ROUGHINS AND SHOP DRAWINGS FROM F.S.E.C. AND
- ADVISE PRIOR TO ROUGHING IN IF ANY CHANGES ARE REQUIRED.
- 13. COORDINATE ROUGHIN REQUIREMENTS FOR
- OWNER SUPPLIED, RELOCATED, OR EXISTING EQUIPMENT WITH ALL TRADES
- 14. REUSE EXISTING ROUGHINS IF APPLICABLE
- I 5. EQUIPMENT NOT BEING RE-USED TO BE DISCONNECTED.
- I G. EQUIPMENT NOT BEING RE-USED SHALL BE DISCARDED. 17. IF OWNER REQUESTS EXISTING EQUIPMENT BE SALVAGED TURN OVER TO OWNER.
- 18. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED FROM UTILITIES.
- 19. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE REMOVED FROM SITE, CLEANED, MADE READY
- FOR HEALTH DEPARTMENT AND RETURNED TO THE SITE. 20. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE RE-CONNECTED.
- 21. VERIFY VENTILATION DATA WITH HOOD MFG. SHOP DRAWINGS.

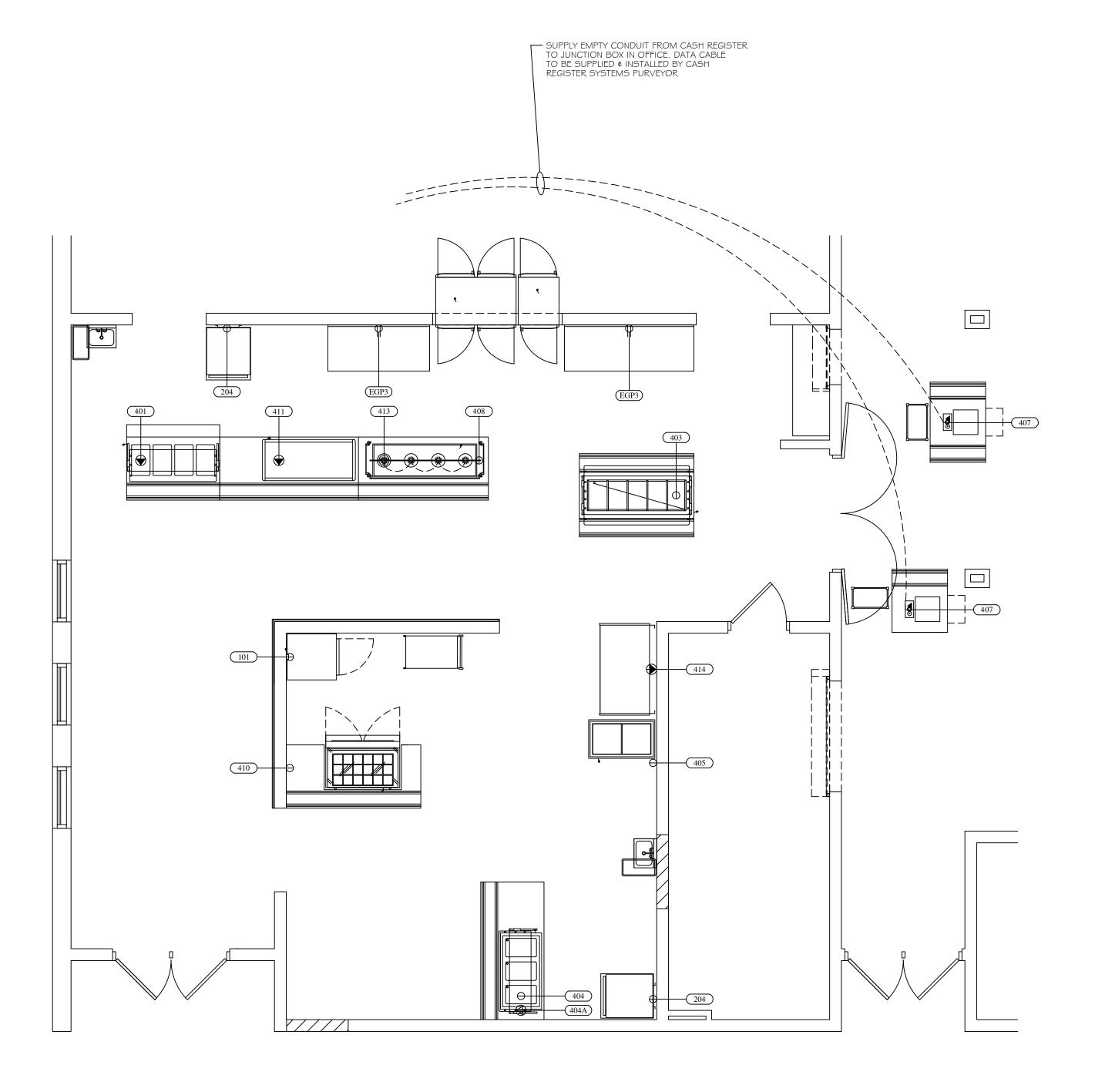
		MECHANICAL / ELECTRICAL NOTES
Ф		I 20 V - 20 AMP DUPLEX RECEPTACLE - GFIC VERTICALLY MOUNTED
ф		I 20 V - 20 AMP SIMPLEX OUTLET - GFIC VERTICALLY MOUNTED
IIII		I 20 VOLT - 30 AMP QUAD OUTLET
$\Diamond$	SR	SPECIAL RECEPTACLE - I 20 VOLT
•	SR	SPECIAL RECEPTACLE - 208/240 VOLT
• <b>▼</b>		W.T. FLUSH FLOOR POWER/COMMUNICATIONS RECEPTACLE
▼		DATA CONNECTION
<u> </u>		WATERTIGHT FLUSH FLOOR DUPLEX - 20 AMP - GFIC
JB	JB	JUNCTION BOX
ф	LT	LIGHT FIXTURE
	Α	AMPS
	AFF	ABOVE FINISHED FLOOR
	BTC	BRANCH TO CONNECTION BY TRADES
	DFA	DROP FROM ABOVE
	GP	GENERAL PURPOSE
	HP	HORSEPOWER
	IW	INDIRECT/AIR GAPPED WASTE TO FL DR OR FL SK
	KW	KILOWATT
	PH	PHASE
	UON	UNLESS OTHERWISE NOTED
	VIF	VERIFY IN FIELD
	V	VOLTS
•	HW	HOT WATER - 25 PSI - 1   5 DEGREES
•	CW	COLD WATER - 25 PSI
8	G	NATURAL GAS - 7" W.C. OR LP GAS - 11" W.C VIF
•	W	WASTE DRAIN - DIRECT CONNECTION
(FD)	FD	FLOOR DRAIN - 3" MINIMUM DRAIN - MINIMUM PITCH
FFD	FFD	FUNNEL FLOOR DRAIN FOR IW - 3" MINIMUM DRAIN
FS	FL SK	FLOOR SINK FOR IW - 12" SQ HALF GRATE - 3" MIN.
	EVC	EXHAUST VENT CONNECTION
$\boxtimes$	MUA	MAKE UP AIR DUCT CONNECTION
	CFM	CUBIC FEET MINUTE
	SP	STATIC PRESSURE
0	ВС	BEVERAGE CONDUIT WITH 18" SWEEP ENDS BY TRADES - VIF
	TFT	TEMPERED FLOOR TROUGH

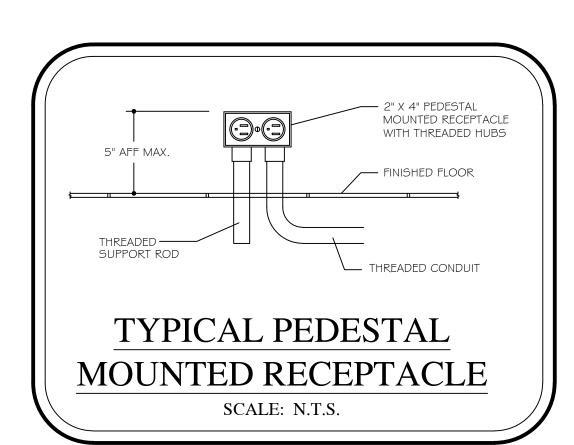
- 1. VERIFY ROUGHIN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED
- EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC. 2. REUSE EXISTING ROUGHINS

NIKEC NOT IN KITCHEN EQUIPMENT CONTRACT

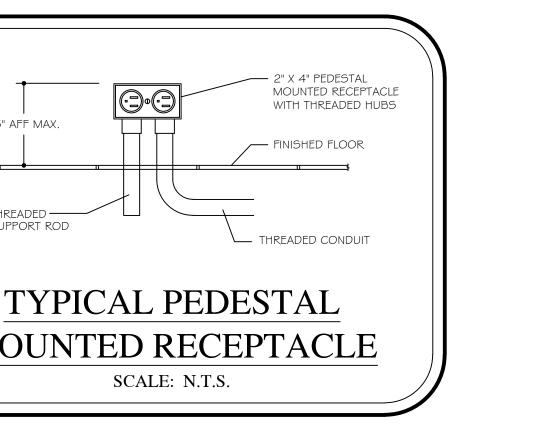
- WHERE APPLICABLE. 3. DISCONNECT, REMOVE, STORE & RECONNECT ANY EXISTING EQUIPMENT AS REQUIRED
- FOR CONSTRUCTION PURPOSES. 4. EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED AND STORED OR DISCARDED
- AS DIRECTED BY OWNER. 5. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED AND RELOCATED AS PER PLANS AND SPECIFICATIONS.







			EQU	JIPMEN	IT SCHE	EDULE		
Item	EQUIPMENT DESCRIPTION	VOLTS	PH	AMPS LOAD	DIRECT BY EC	CORDSET BY FSEC	AFF (in)	REMARKS
101	REFRIGERATOR	120	1	4.9		X	90	
204	HOT FOOD CABINET	120	1	12.0		X	72	
401	HOT FOOD TABLE	120/208	1	20.4		X	5	PEDESTAL MOUNTED RECEPTACLE
403	COLD FOOD TABLE	120	1	9.5		X	5	PEDESTAL MOUNTED RECEPTACLE
404	DROP-IN HOT/COLD WELLS	120	1	18.2		X	5	PEDESTAL MOUNTED RECEPTACLE
404A	SNEEZE GUARD	120	1	1.0	X		5	PEDESTAL MOUNTED JUNCTION BOX
405	ICE CREAM DISPLAY FREEZER - EXISTING	120	1	4.8		X	16	
407	CASH REGISTER/POS - BY OWNER	120	1	10.0		X	5	INTERWIRE TO OFFICE/CPU - VIF
408	DROP-IN HEATED SURFACE	120	1	11.1		X	5	PEDESTAL MOUNTED RECEPTACLE
410	SANDWICH TOP REFRIGERATOR	120	1	4.8		X	16	
411	HEATED SLANTED SANDWICH SLIDE	120/208	1	18.4		X	5	PEDESTAL MOUNTED RECEPTACLE
413	DECORATIVE HEAT LAMP ASSEMBLY	120	1	8.0	X		DFA	
414	AIR CURTAIN REFRIGERATOR	208	1	15.3		X	16	IF UNIT CANNOT BE CONNECTED TO GFCI BREAKER, THEN IT MUST BE HARD WIRED
EGP3	GENERAL PURPOSE DUPLEX	120	1	10.0		X	48	



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### TRADE & FSEC NOTES:

- I. KITCHEN EQUIPMENT SHALL BE DELIVERED AND ERECTED
- 2. DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO F.S.E.C. DIMENSIONED
- ROUGH-IN DRAWINGS AND SHOP DRAWINGS FOR ACTUAL REQUIREMENTS. 3. SHALL MAKE ALL FINAL CONNECTIONS BETWEEN EQUIPMENT AND ROUGH-IN POINT,
- AND FURNISH ALL WIRING, SWITCHES, CONTROLS, SERVICE VALVES, PIPING, ETC AS REQUIRED. FURNISH DRAIN WATER TEMPERING KIT(S).
- 4. FURNISH AND INSTALL ALL EQUIPMENT ACCESSORIES (FAUCETS, SWITCHES,
- CORDS, VALVES, GAS HOSES, ETC.). 5. SLOPES TO FD'S SHOULD BE HELD TO A MINIMUM DIMENSION.
- 6. ALL "ROUGH-INS" SHOULD BE "UP-WITHIN" AND THEN "OUT-OF" WALLS WHERE
- POSSIBLE TO KEEP FLOORS AS CLEAN AS POSSIBLE. ROUGH-INS ARE SHOWN AT
- TERMINATION POINT TO ALLOW WIRING/PIPING TO FIXTURE. 7. PROVIDE CHASES/REWORK OF WALLS, FLOORS, CEILINGS FOR UTILITIES,
- FLOOR GRATES, WALKINS, DUCTS, ETC. 8. PROVIDE ACCESS HOLES IN EQUIPMENT FOR UTILITIES, PIPING, POS,
- BEVERAGE LINES, ETC.
- 9. PROVIDE VENTILATION, STRUCTURAL SUPPORT, CEILING WORK,
- ROOF PENETRATIONS AND FIRE PROOFING AS REQUIRED. I O. EXHAUST HOOD SHALL BE USED FOR VENTILATION OF COOKING EQUIPMENT ONLY.
- PROVIDE ROOM VENTILATION (A/C RECOMMENED) AS REQUIRED
- I I . PROVIDE ADEQUATE VENTILATION FOR REFRIGERATION COMPRESSORS, WHETHER AIR OR WATER COOLED.
- 12. REVIEW ALL ROUGHINS AND SHOP DRAWINGS FROM F.S.E.C. AND
- ADVISE PRIOR TO ROUGHING IN IF ANY CHANGES ARE REQUIRED.
- 13. COORDINATE ROUGHIN REQUIREMENTS FOR
- OWNER SUPPLIED, RELOCATED, OR EXISTING EQUIPMENT WITH ALL TRADES
- 14. REUSE EXISTING ROUGHINS IF APPLICABLE 15. EQUIPMENT NOT BEING RE-USED TO BE DISCONNECTED.
- I 6. EQUIPMENT NOT BEING RE-USED SHALL BE DISCARDED.
- 17. IF OWNER REQUESTS EXISTING EQUIPMENT BE SALVAGED TURN OVER TO OWNER.
- 18. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED FROM UTILITIES. 19. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE REMOVED FROM SITE, CLEANED, MADE READY
- FOR HEALTH DEPARTMENT AND RETURNED TO THE SITE.
- 20. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE RE-CONNECTED. 21. VERIFY VENTILATION DATA WITH HOOD MFG. SHOP DRAWINGS.

		MECHANICAL / ELECTRICAL NOTES
Ф		I 20 V - 20 AMP DUPLEX RECEPTACLE - GFIC VERTICALLY MOUNTED
ф		I 20 V - 20 AMP SIMPLEX OUTLET - GFIC VERTICALLY MOUNTED
Ø		I 20 VOLT - 30 AMP QUAD OUTLET
$\Diamond$	SR	SPECIAL RECEPTACLE - I 20 VOLT
<b>\Phi</b>	SR	SPECIAL RECEPTACLE - 208/240 VOLT
<b>○</b> ▼		W.T. FLUSH FLOOR POWER/COMMUNICATIONS RECEPTACLE
▼		DATA CONNECTION
•		WATERTIGHT FLUSH FLOOR DUPLEX - 20 AMP - GFIC
JB	JB	JUNCTION BOX
<b></b>	LT	LIGHT FIXTURE
	Α	AMPS
	AFF	ABOVE FINISHED FLOOR
	BTC	BRANCH TO CONNECTION BY TRADES
	DFA	DROP FROM ABOVE
	GP	GENERAL PURPOSE
	HP	HORSEPOWER
	IW	INDIRECT/AIR GAPPED WASTE TO FL DR OR FL SK
	KW	KILOWATT
	PH	PHASE
	UON	UNLESS OTHERWISE NOTED
	VIF	VERIFY IN FIELD
	V	VOLTS
•	HW	HOT WATER - 25 PSI - 1   5 DEGREES
•	CW	COLD WATER - 25 PSI
$\otimes$	G	NATURAL GAS - 7" W.C. OR LP GAS - 11" W.C VIF
•	W	WASTE DRAIN - DIRECT CONNECTION
FD	FD	FLOOR DRAIN - 3" MINIMUM DRAIN - MINIMUM PITCH

FFD FUNNEL FLOOR DRAIN FOR IW - 3" MINIMUM DRAIN FL SK | FLOOR SINK FOR IW - | 2" SQ. - HALF GRATE - 3" MIN.

BC BEVERAGE CONDUIT WITH 18" SWEEP ENDS BY TRADES - VIF

MUA MAKE UP AIR DUCT CONNECTION

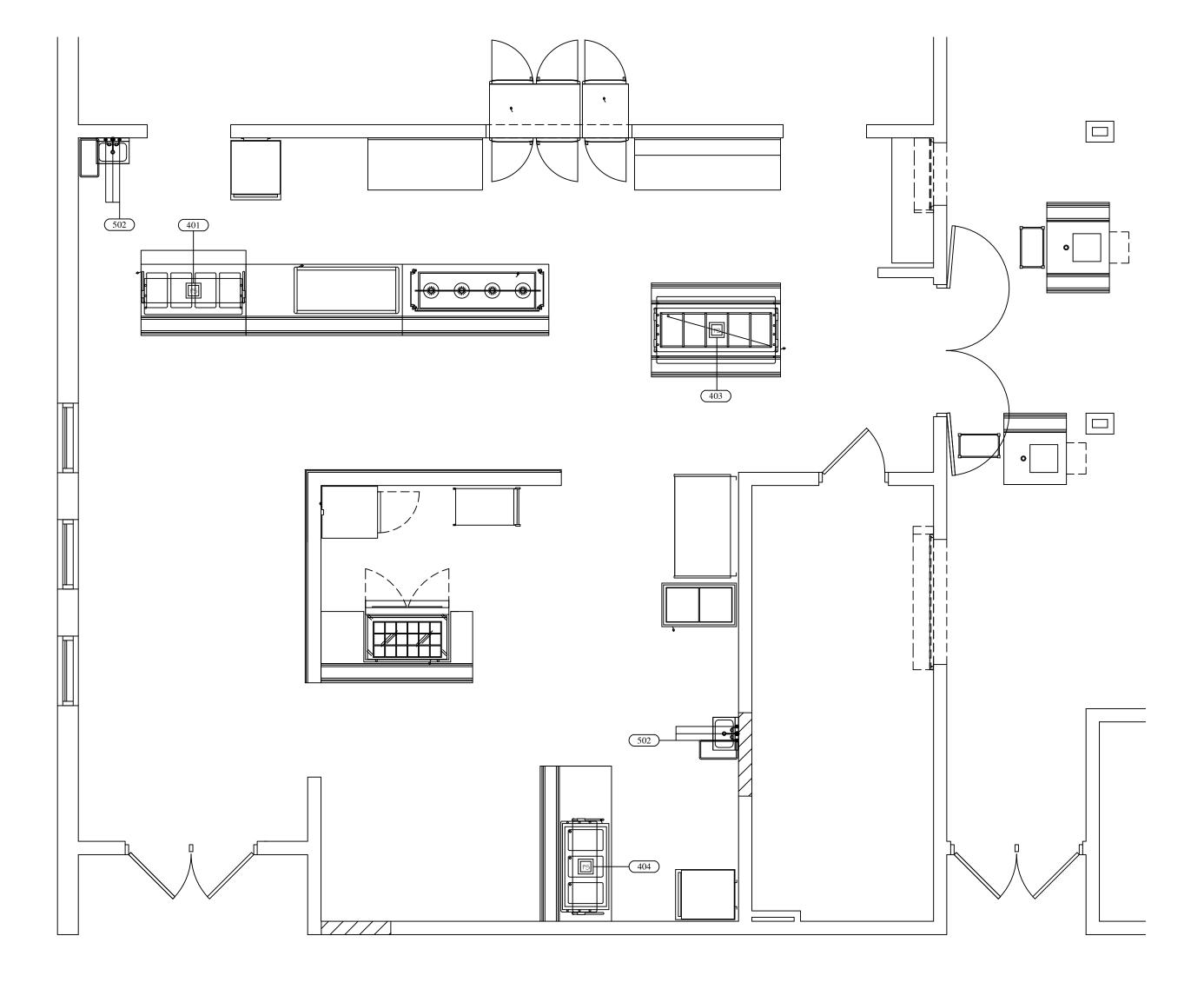
TFT TEMPERED FLOOR TROUGH

NIKEC NOT IN KITCHEN EQUIPMENT CONTRACT

CFM CUBIC FEET MINUTE

- 1. VERIFY ROUGHIN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED EQUIPMENT, OWNER SUPPLIED EQUIPMENT, ETC.
- 2. REUSE EXISTING ROUGHINS WHERE APPLICABLE.
- 3. DISCONNECT, REMOVE, STORE & RECONNECT ANY EXISTING EQUIPMENT AS REQUIRED FOR CONSTRUCTION PURPOSES.
- 4. EQUIPMENT NOT BEING REUSED TO BE DISCONNECTED AND STORED OR DISCARDED AS DIRECTED BY OWNER.
- 5. EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED AND RELOCATED AS PER PLANS AND SPECIFICATIONS.





				E	EQUIPME:	NT SCH	IEDULE				
Item	EQUIPMENT DESCRIPTION	CW (in)	HW (in)	AFF (in)	DIRECT DRAIN (in)	AFF (in)	INDIRECT AIR GAP	GAS (in)	AFF (in)	MBTUH	REMARKS
401	HOT FOOD TABLE						FL SK				
403	COLD FOOD TABLE						FL SK				
404	DROP-IN HOT/COLD WELLS						FL SK				
502	HAND SINK W/ SIDE SPLASHES	0.5	0.5	18	1.5	16					SOAP & TOWEL DISPENSER - BY OWNER

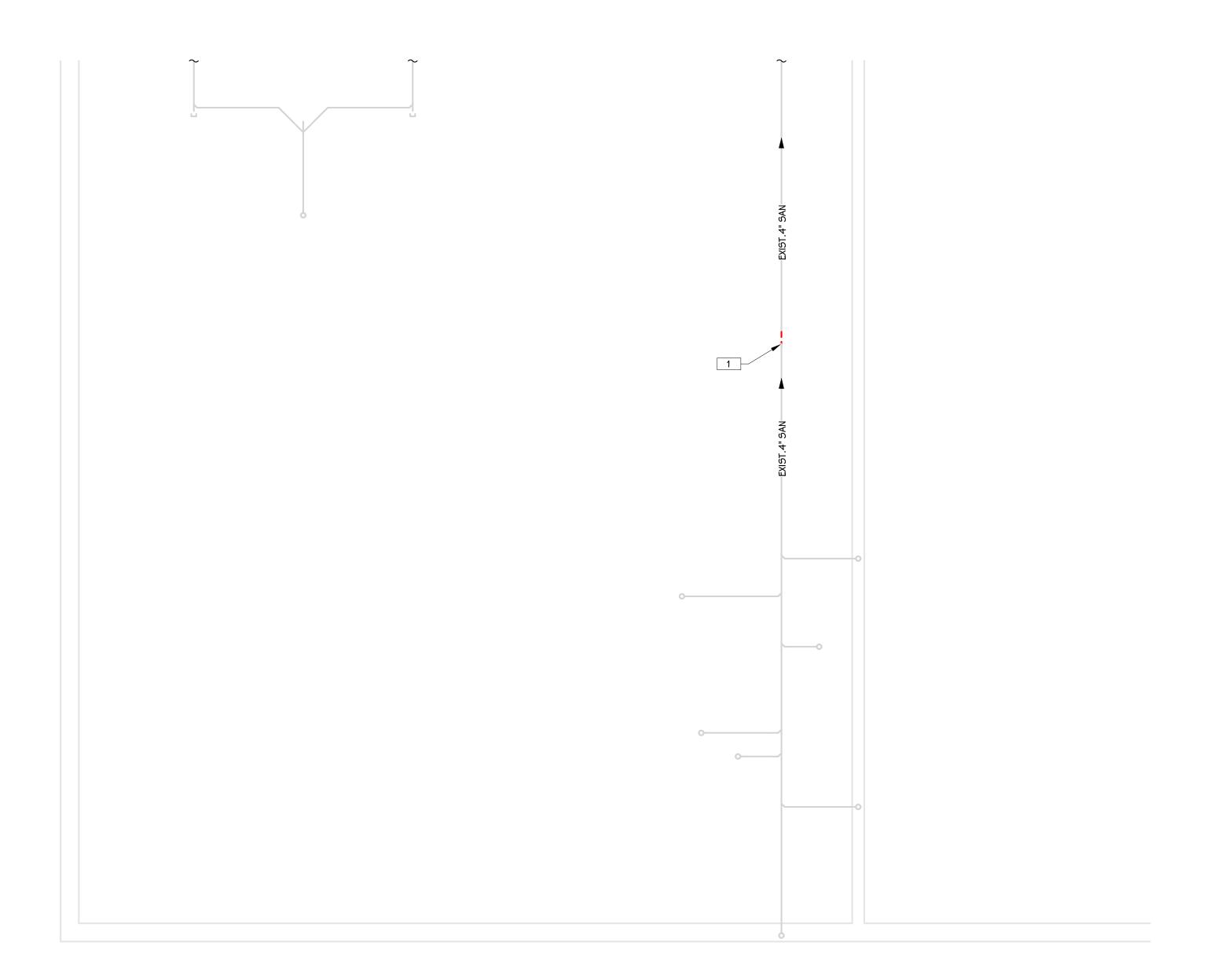
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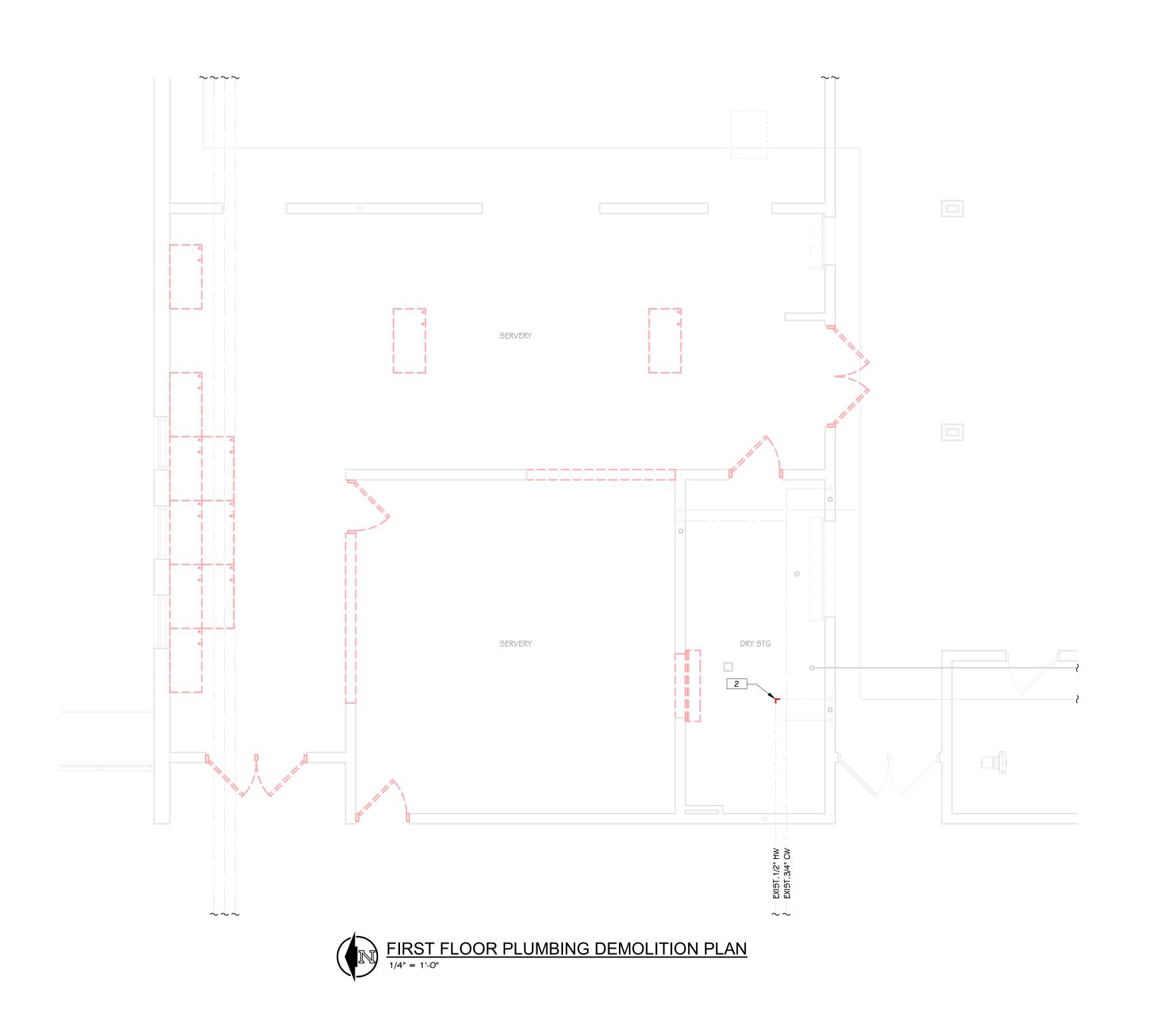
DATE JANUARY

SHEET NUMBER MG 001 23-186.00



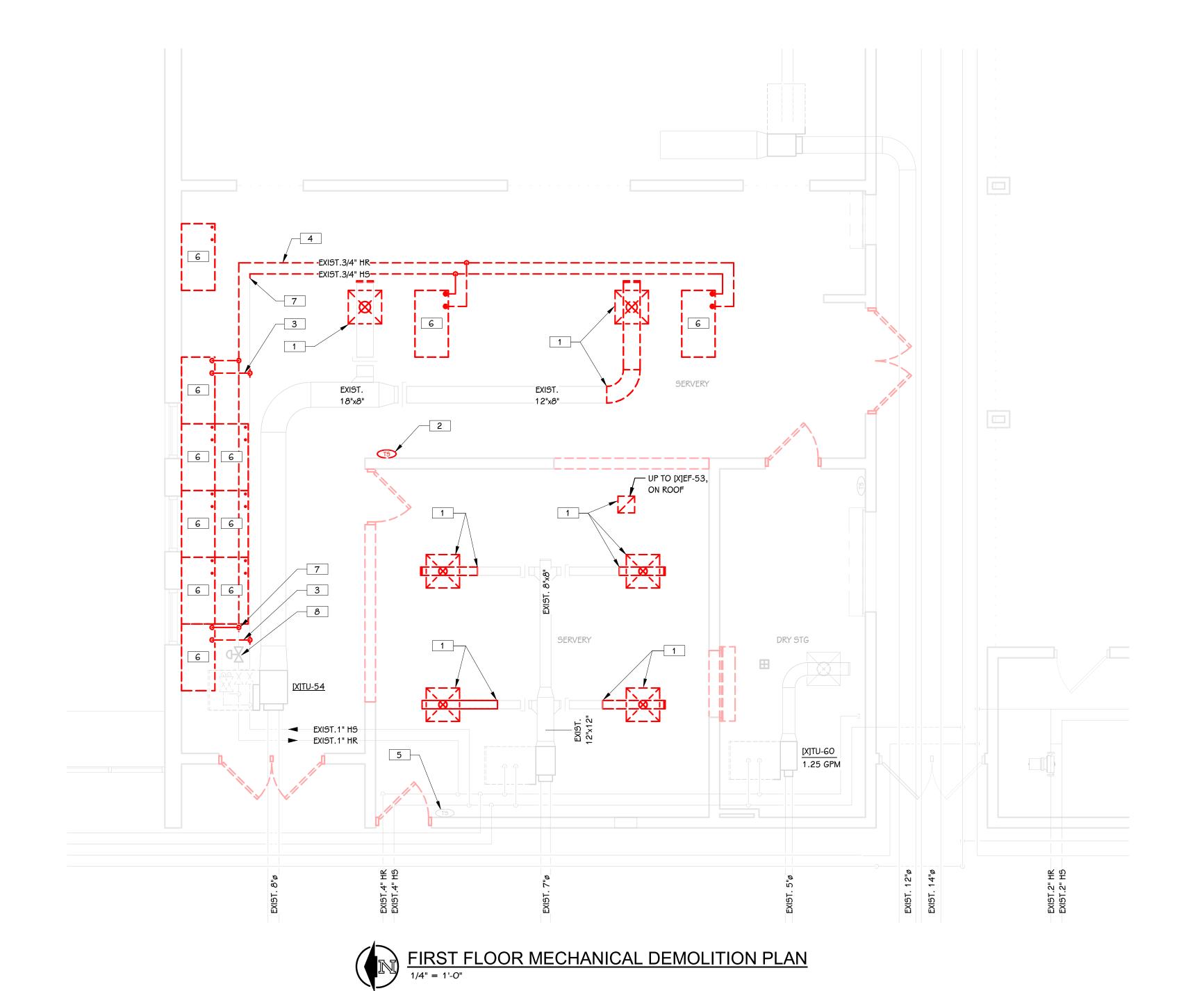


KEYED NOTES - PLUMBING - DEMO 1 CUT EXISTING SANITARY PIPING AND PREPARE FOR NEW SANITARY TIE-IN. 2 PREPARE EXISTING PIPING FOR CONNECTION TO NEW BRANCH. REFER TO NEW CONSTRUCTION PLANS. THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING PORTAGE WEST MIDDLE SCHOOL AREA OF WORK KEY PLAN
SCALE: NONE



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AN ACCURATE DRAWING PORTAGE WEST MIDDLE SCHOOL AREA OF WORK KEY PLAN
SCALE: NONE

KEYED NOTES - PLUMBING - DEMO



KEYED NOTES - MECHANICAL - DEMOLITION

1 DEMO EXISTING AIR TERMINAL. DEMO EXISTING DUCTWORK AS NECESSARY TO FACILITATE CONNECTION TO NEW AIR TERMINAL IN NEW CEILING.

2 EXISTING TEMPERATURE SENSOR TO BE DEMO'ED AND REINSTALLED IN NEW LOCATION. PATCH WALL TO MATCH.

3 DEMO EXISTING PIPING BRANCH BACK TO MAIN.

4 DEMO HEATING WATER SUPPLY AND RETURN PIPING AS INDICATED. PREPARE HEATING WATER RETURN PIPING FOR CONNECTION TO NEW BRANCH.

5 EXISTING TEMPERATURE SENSOR TO REMAIN.

6 DEMO EXISTING RADIANT CEILING PANELS. DEMO PIPING NOT BEING REUSED. PREPARE FOR NEW CONNECTIONS.

7 PREPARE PIPING FOR CONNECTION TO NEW PIPING BRANCH. REFER TO NEW CONSTRUCTION PLANS.

8 EXISTING CONTROL VALVE, BALANCE VALVES, AND OTHER ACCESSORIES SERVING EXISTING RADIANT CEILING PANELS TO REMAIN AND BE REUSED.

ISSUED FOR

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ST MIDDLE SCHOOL SERVE

PUBLIC SCHOOLS

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E NUARY 16, 2024

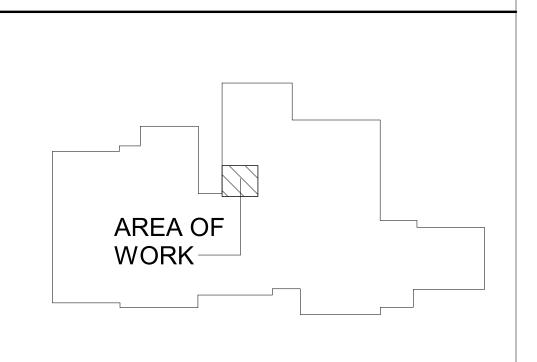
DATE JANUARY 16

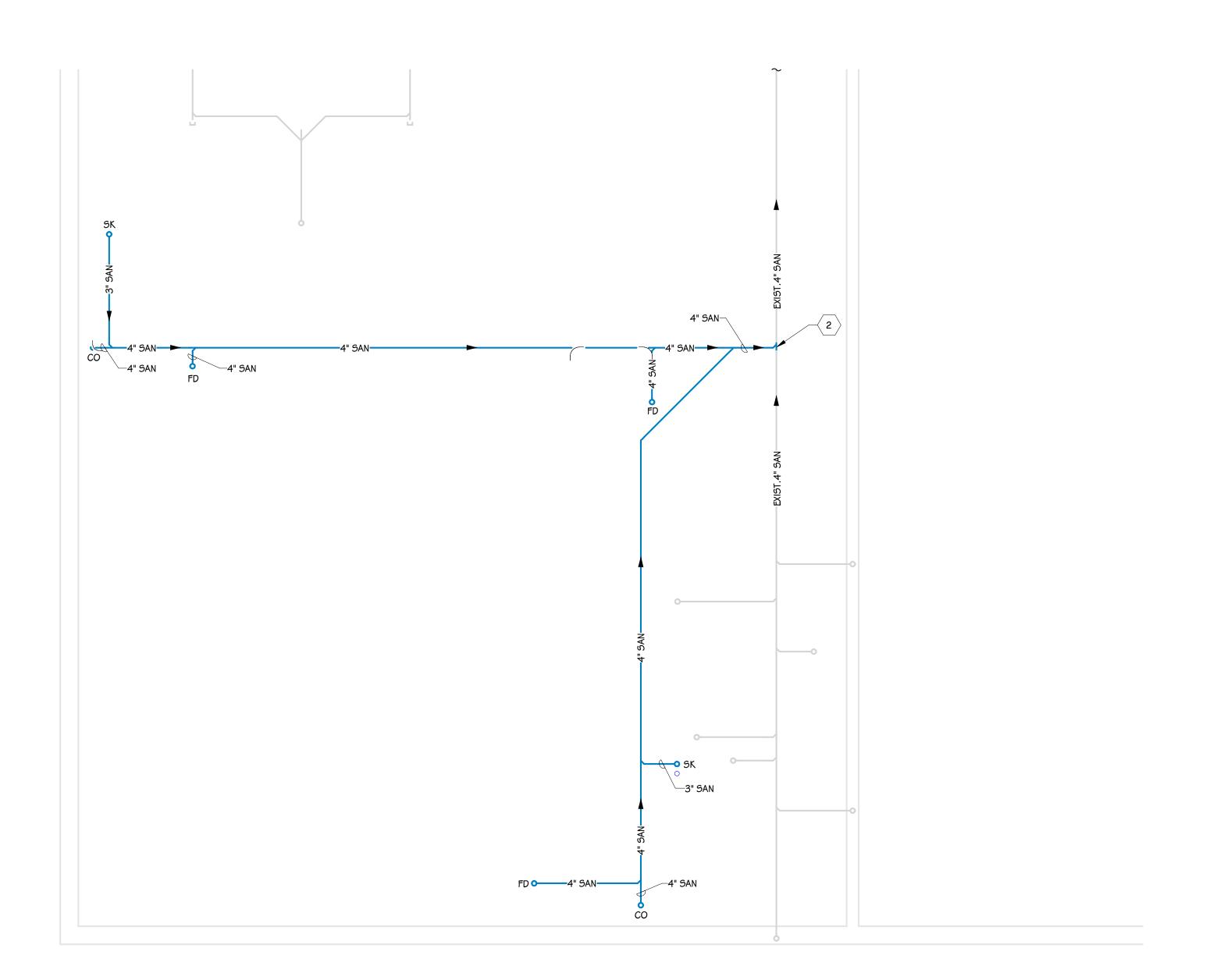
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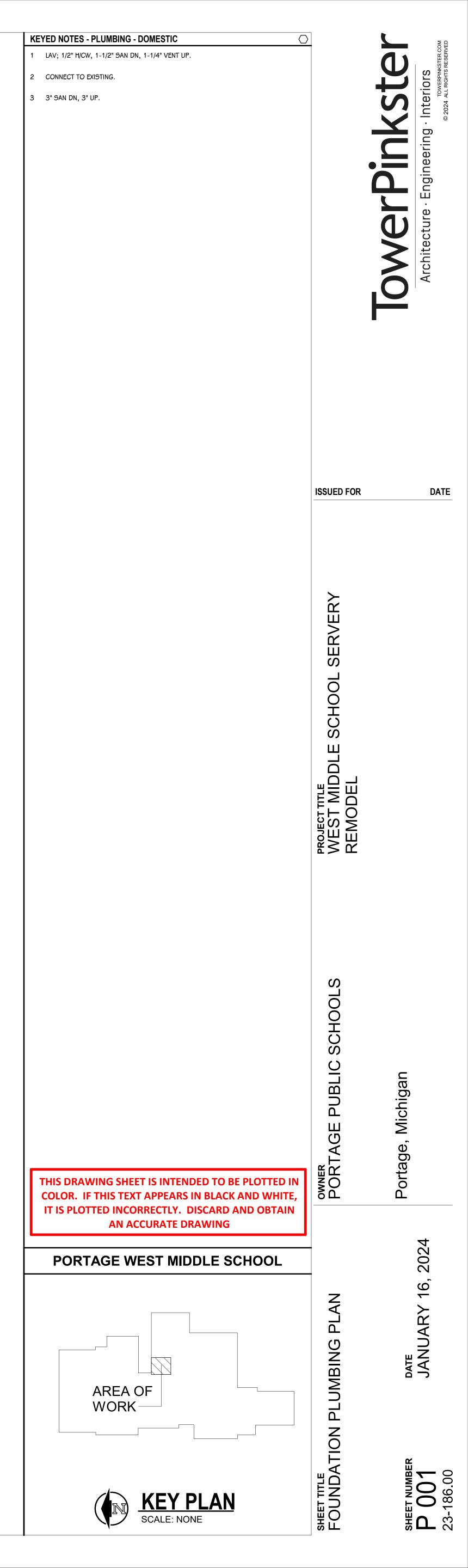
THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

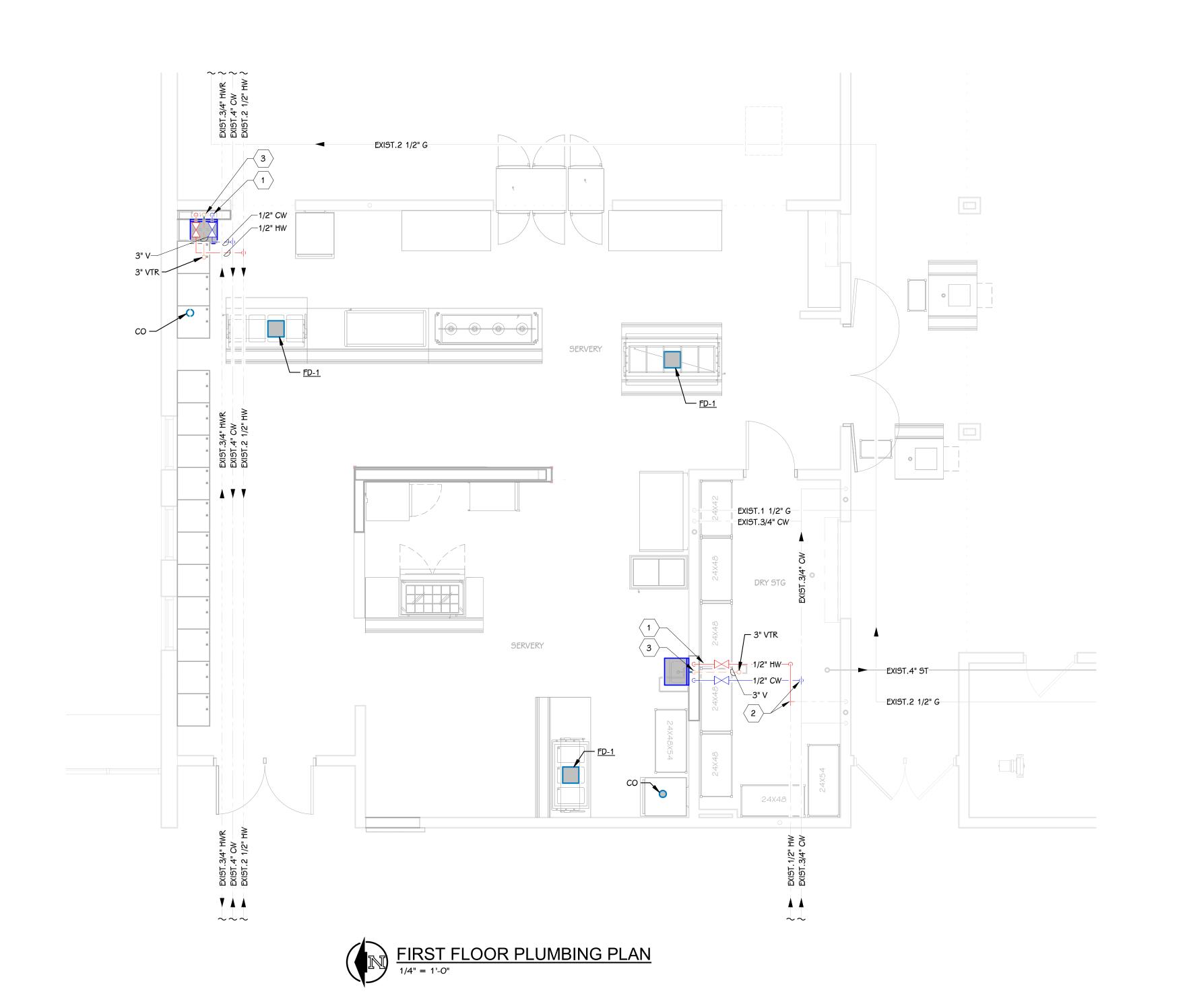
## PORTAGE WEST MIDDLE SCHOOL











KEYED NOTES - PLUMBING - DOMESTIC 1 LAV; 1/2" H/CW, 1-1/2" SAN DN, 1-1/4" VENT UP. 2 CONNECT TO EXISTING. 3 3" SAN DN, 3" UP.

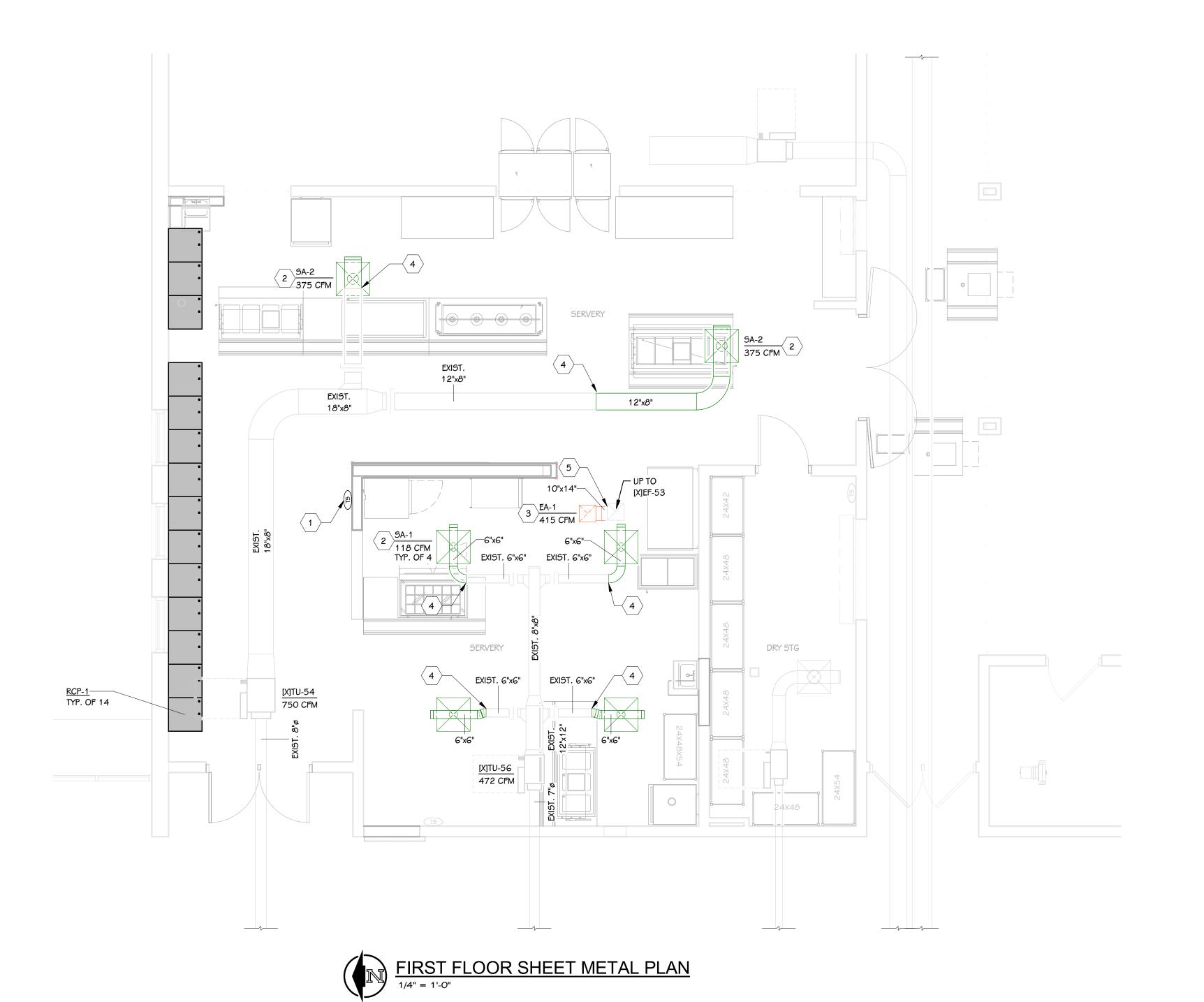
COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE,
IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN
AN ACCURATE DRAWING

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN

PORTAGE WEST MIDDLE SCHOOL

KEY PLAN
SCALE: NONE

AREA OF WORK



KEYED NOTES - MECHANICAL - SHEET METAL

1 RELOCATED TEMPERATURE SENSOR.

2 CONNECT NEW SUPPLY AIR DIFFUSERS TO EXISTING DUCTWORK. COORDINATE PLACEMENT OF NEW DIFFUSERS IN CEILING GRID - REFER TO REFLECTED CEILING PLANS.

3 CONNECT NEW RETURN AIR GRILLE TO EXISTING DUCTWORK. COORDINATE PLACEMENT OF NEW DIFFUSERS IN CEILING GRID - REFER TO REFLECTED CEILING PLANS.

4 EXTEND DUCTWORK TO NEW DIFFUSER.

5 EXTEND DUCTWORK TO NEW AIR TERMINAL.

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PROJECT TITLE
WEST MIDDLE SCHOOL SER
REMODEL

SLIC SCHOOLS

I AGE PUBLIC SC

Portage. Michig

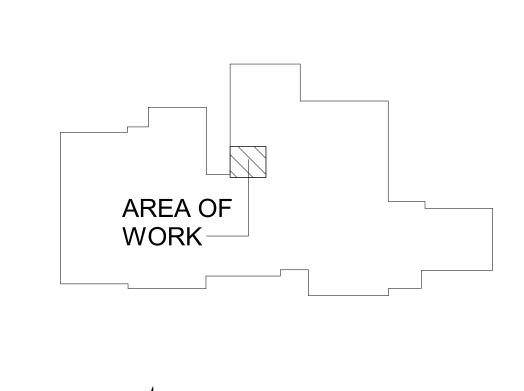
DATE JANUARY 16, 2024

ET NUMBER | 101 | 186.00

KEY PLAN
SCALE: NONE

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

## PORTAGE WEST MIDDLE SCHOOL

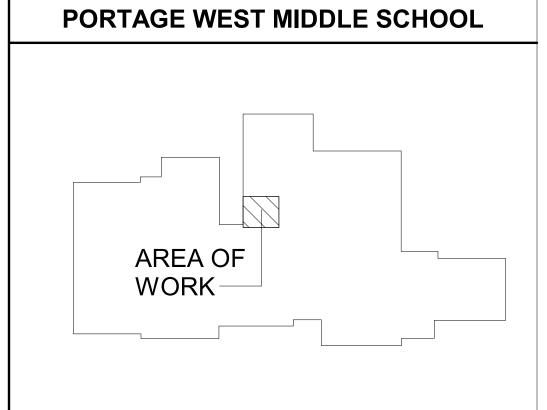


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ROOF MECHANICAL PLAN

1/4" = 1'-0"

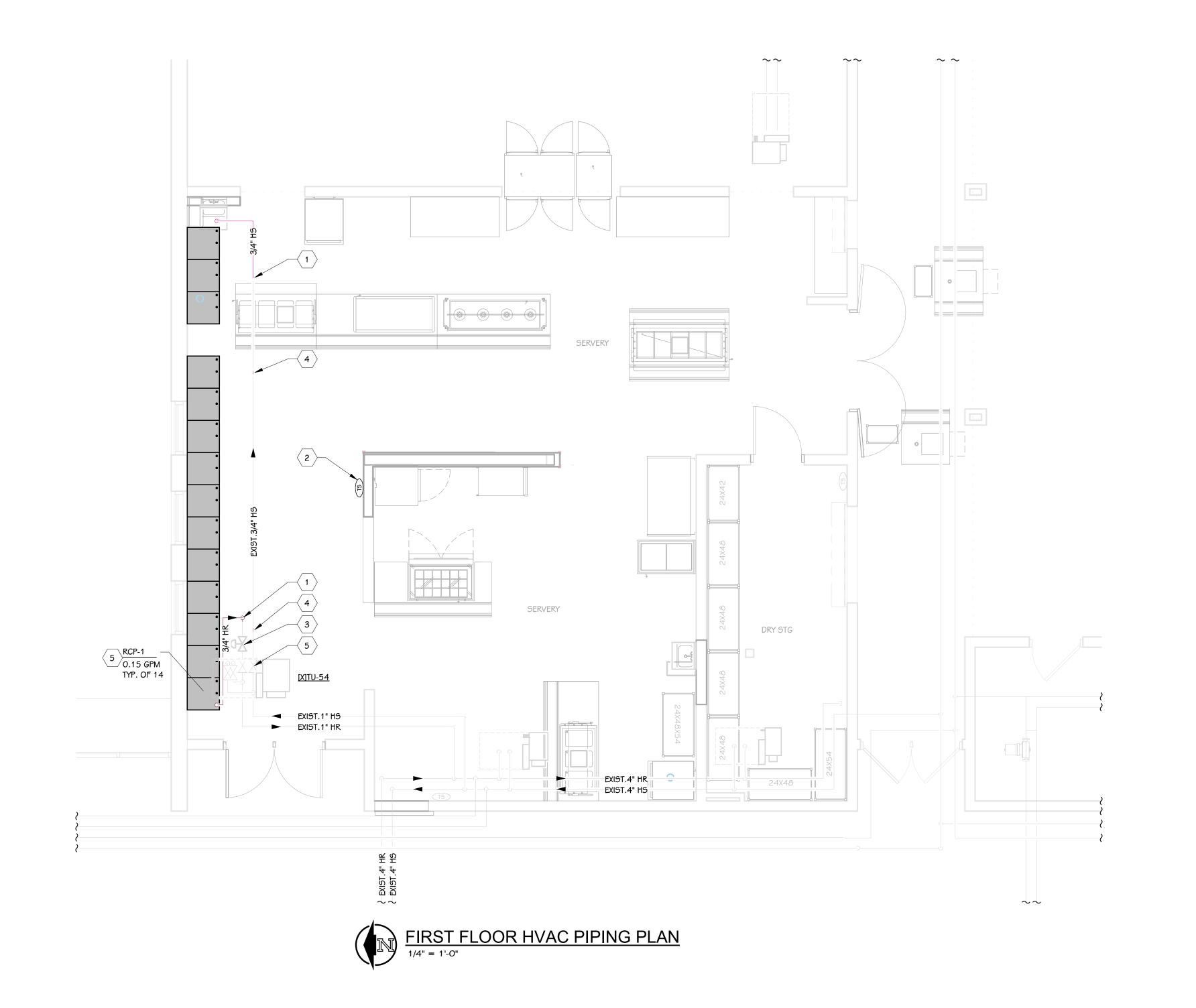
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KEY PLAN
SCALE: NONE

SHEET TITLE
ROOF MECHANICAL

SHEET NUMBER M 150 23-186.00



KEYED NOTES - MECHANICAL - HVAC PIPING

1 EXTEND HEATING WATER PIPING TO NEW HEATING WATER PIPNG TO NEW RADIANT CEILING PANELS. REFER TO DETAIL.

2 RELOCATED TEMPERATURE SENSOR.

3 REINSTALL EXISTING CONTROL VALVE SERVING RADIANT CEILING PANELS.

4 RECONNECT EXISTING PIPING.

5 RADIANT CEILING PANELS TO EXTEND ENTIRE LENGTH OF EXTERIOR WALL. PROVIDE FILLER PANELS FOR UNUSED PORTIONS OF CEILING GRIDS TO. COORDINATE WITH EQUIPMENT MANUFACTURER AND ALL TRADES.

KEY PLAN SCALE: NONE

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN

COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN

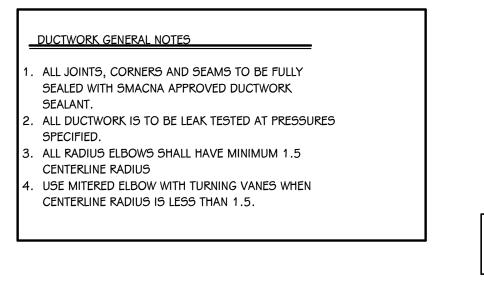
PORTAGE WEST MIDDLE SCHOOL

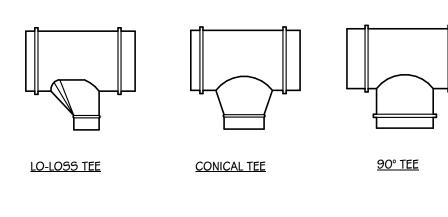
AREA OF WORK

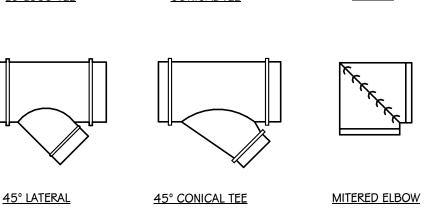
AN ACCURATE DRAWING

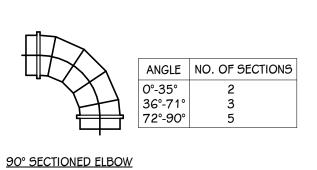
ADIANT	CEILING	PANEL -	<b>HOT WATE</b>	R					BASED ON AERO-
MARK	MODEL	WIDTH	LENGTH	GPM	BTU/SQ FT	EWT	TYPE	PANEL SURFACE	REMARKS
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
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RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	
RCP-1	RLFM	24"	2' - 0"	0.15	190	180	LAY-IN	WHITE	

- 1. BASED ON 180°F EWT, 160°F LWT, AND 70° F EAT.
- VERIFY ALL LENGTHS IN FIELD.
- 3. PROVIDE MANUFACTURER FILLER PANELS TO EXTEND RADIANT CEILING PANELS WALL-TO-WALL.

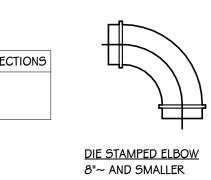


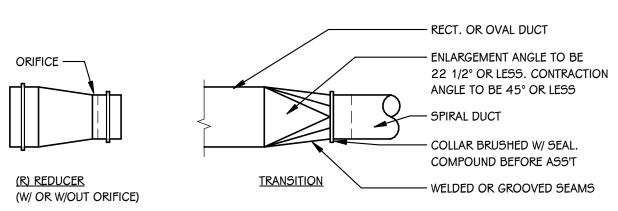


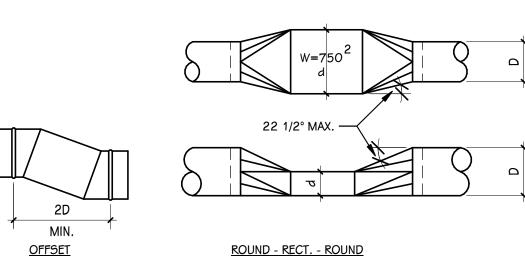


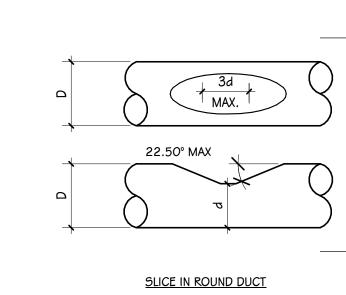


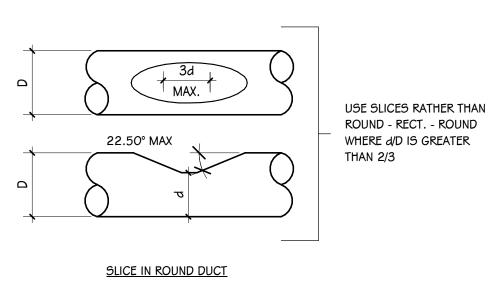
9"~ AND LARGER



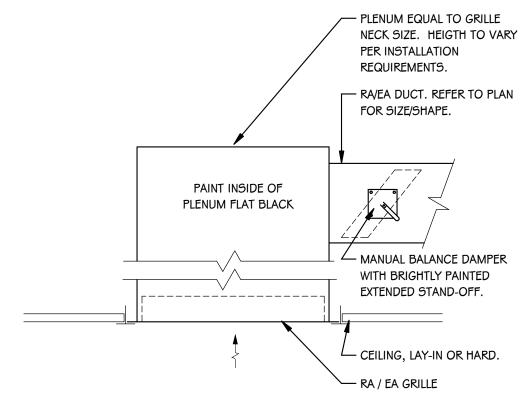


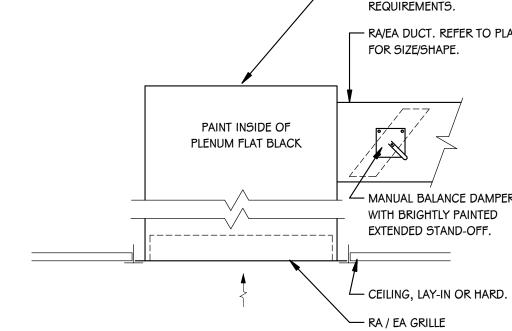


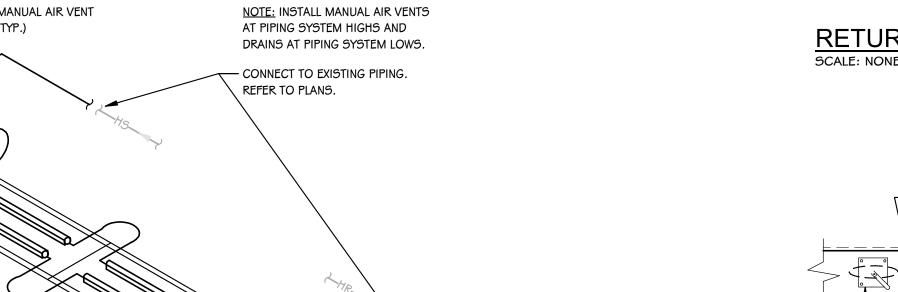




# DUCTWORK FITTING DETAILS - ROUND/OVAL SCALE: NONE





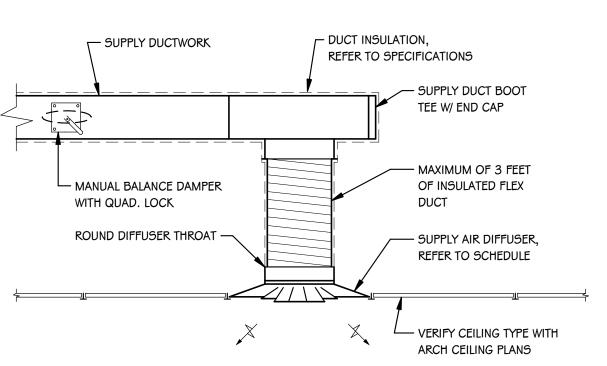


COPPER TUBING FROM — UNION TO RAD. PANEL \$ TUBING BETWEEN PANEL SECTIONS BY PANEL MANUFACTURER

— MANUAL AIR VENT

# RADIANT CEILING PANEL PIPING DETAIL - LINEAR SCALE: NONE





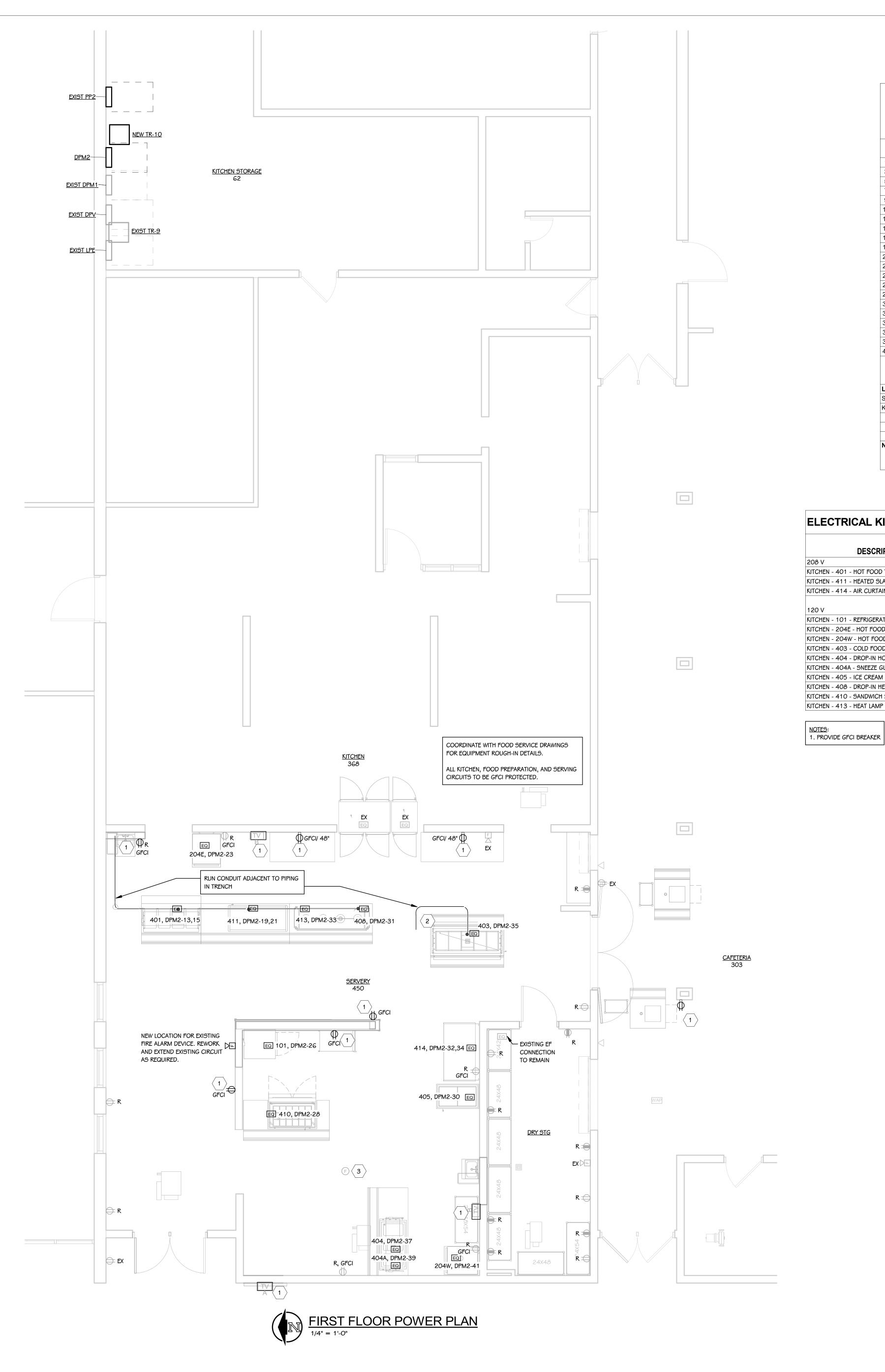
DATE ISSUED FOR

DATAVOICE OUTLET DATAVOICE OUTLET - SURFACE DATAVOICE OUTLET - SURFACE DATAVOICE OUTLET - SURFACE DATAVOICE OUTLET - ABOVE BACKSPLASH  SECURITY CONTROLS PATHWAY  WAP WRELESS ACCESS POINT GEB GROUNDING BUS BAR CABLE TRAY CLOCK MCP MASTER CLOCK PANEL PAGING SYSTEM HEAD END NETWORK COMMUNICATION RACK 4'X8'X3/4" FIRE-RATED PLYWOOD CONDUIT SLEEVE  AUDIOVISUAL  TV MALL BACKBOX PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR OUTLET WITHIN 16" OF PROJECTOR SORES MIC MICROPHONE JACK CB CEILING BOX BT BLUETOOTH DEVICE ANTENNA SER PROJECTOR SCREEN  DUDSPEAKER CEILING MOUNTED COUDSPEAKER CEILING MOUNTED COUDSPEAKER WALL MOUNTED COUNTED SECURITY CAMERA SECURITY CAMERA SECURITY CAMERA SECURITY CAMERA SECURITY CAMERA COLORS CONTROL PANEL RELEASE BUTTON MITERCOM MASTER STATION MITERCOM MITERCOM MITERCOM
DATAVOICE OUTLET - ABOVE BACKSPLASH  SECURITY CONTROLS PATHWAY  WIRELESS ACCESS POINT  GROUNDING BUS BAR  CABLE TRAY  CLOCK  MCP MASTER CLOCK PANEL  PAGING SYSTEM HEAD END  NETWORK COMMUNICATION RACK  4'X8'X3/4" FIRE-RATED PLYWOOD  CONDUIT SLEEVE  AUDIO/VISUAL  TV WALL BACKBOX  PROJECTOR (OUTLET WITHIN 16"  OF PROJECTOR (OUTLET WITHIN 16"  OF PROJECTOR LOCATION)  AV WALL STATION BOXES  TECHNOLOGY OR TEACHER'S  STATION BOXES  MICROPHONE JACK  CB CEILING BOX  B BLUETOOTH DEVICE  ANTENNA  PROJECTOR SCREEN  CHAPT  ANTENNA  PROJECTOR SCREEN  CHAPT  ANTENNA  PROJECTOR SCREEN  COUDSPEAKER CEILING MOUNTED  VOLUME CONTROL  SECURITY SYMBOLS  CECURITY CAMERA  PROJECTOR SCREEN  SECURITY CAMERA  CHAPT  ACCESS CONTROL PANEL  RELEASE BUTTON  INTERCOM MASTER STATION  CONTROL  CRAPT READER  CRIM CARD READER, MULLION MOUNT  LOCKDOWN BUTTON  CRAPT READER  CRIM CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
WAP WIRELESS ACCESS POINT  GBB GROUNDING BUS BAR  CABLE TRAY  CLOCK  MCP MASTER CLOCK PANEL  PAGING SYSTEM HEAD END  ITC# NETWORK COMMUNICATION RACK  4'X8'X3/4" FIRE-RATED PLYWOOD  CONDUIT SLEEVE  AUDIO/VISUAL  TV N TV WALL BACKBOX  PROJECTOR (OUTLET WITHIN 16"  OF PROJECTOR (OUTLET WITHIN 16"  OF PROJECTOR LOCATION)  AV WALL STATION BOXES  MIC MICROPHONE JACK  CEILING BOX  BI BLUETOOTH DEVICE  ANTENNA  PROJECTOR SCREEN  CEILING BOX  BI BLUETOOTH DEVICE  ANTENNA  PROJECTOR SCREEN  CUDDSPEAKER CEILING MOUNTED  VOLUME CONTROL  SECURITY SYMBOLS  CECURITY CAMERA  SECURITY CAMERA  S
GROUNDING BUS BAR  CABLE TRAY  CLOCK  MCP  MASTER CLOCK PANEL  PAGING SYSTEM HEAD END  TC#  NETWORK COMMUNICATION RACK  4'X8'X3/4" FIRE-RATED PLYWOOD  CONDUIT SLEEVE  AUDIO/VISUAL  TV WALL BACKBOX  PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR LOCATION)  AV IN AV WALL STATION BOXES  TECHNOLOGY OR TEACHER'S STATION BOXES  MICROPHONE JACK  CBI CEILING BOX  BT BLUETOOTH DEVICE  ANTENNA  SCR PROJECTOR SCREEN  SOLUDSPEAKER CEILING MOUNTED  COUDSPEAKER WALL MOUNTED  VOLUME CONTROL  SECURITY SYMBOLS  FECURITY CAMERA  SECURITY CAMERA  SECU
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PAGING SYSTEM HEAD END  TOF  NETWORK COMMUNICATION RACK  4/X8/X3/4" FIRE-RATED PLYWOOD  CONDUIT SLEEVE   UDIO/VISUAL  TV WALL BACKBOX PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR LOCATION) AV MALL STATION BOXES  TECHNOLOGY OR TEACHER'S STATION BOXES  MICROPHONE JACK CEILING BOX DELING MOUNTED  COLUMB CONTROL  DECURITY SYMBOLS  DECURITY CAMERA DECUR
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TV n TV WALL BACKBOX PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR LOCATION) AV n AV WALL STATION BOXES  TS n TECHNOLOGY OR TEACHER'S STATION BOXES  MICROPHONE JACK  CB CEILING BOX BT BLUETOOTH DEVICE  ANT ANTENNA  SCR PROJECTOR SCREEN  (3) LOUDSPEAKER CEILING MOUNTED  VC VOLUME CONTROL  SECURITY SYMBOLS  SECURITY CAMERA  SCP SECURITY CAMERA  SCP SECURITY CABLING PATHWAY  ACCESS CONTROL PANEL  (48) RELEASE BUTTON  (49) INTERCOM MASTER STATION  (40) LOCKDOWN BUTTON  CR CARD READER  CR M CARD READER, MULLION MOUNT  LOCKDOWN STROBE  LOCKDOWN STROBE  LEP KEY PAD
TV n TV WALL BACKBOX PROJECTOR (OUTLET WITHIN 16" OF PROJECTOR LOCATION) AV n AV WALL STATION BOXES  TS n TECHNOLOGY OR TEACHER'S STATION BOXES  MICROPHONE JACK  CB CEILING BOX BT BLUETOOTH DEVICE  ANT ANTENNA  SCR PROJECTOR SCREEN  (3) LOUDSPEAKER CEILING MOUNTED  VC VOLUME CONTROL  SECURITY SYMBOLS  SECURITY CAMERA  SCP SECURITY CAMERA  SCP SECURITY CABLING PATHWAY  ACCESS CONTROL PANEL  (48) RELEASE BUTTON  (49) INTERCOM MASTER STATION  (40) LOCKDOWN BUTTON  CR CARD READER  CR M CARD READER, MULLION MOUNT  LOCKDOWN STROBE  LOCKDOWN STROBE  LEP KEY PAD
OF PROJECTOR LOCATION)  AV n AV WALL STATION BOXES  TECHNOLOGY OR TEACHER'S STATION BOXES  MIC MICROPHONE JACK  CEILING BOX  BT BLUETOOTH DEVICE  ANTENNA  SCR PROJECTOR SCREEN  (3) LOUDSPEAKER CEILING MOUNTED  10 LOUDSPEAKER WALL MOUNTED  10 VOLUME CONTROL  SECURITY SYMBOLS  SECURITY CAMERA  SCP SECURITY CAMERA  SCP SECURITY CABLING PATHWAY  ACP# ACCESS CONTROL PANEL  RELEASE BUTTON  INTERCOM MASTER STATION  LOCKDOWN BUTTON  DURESS ALARM PUSH BUTTON  CR CARD READER  CR M CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
STATION BOXES  MIC MICROPHONE JACK  CEILING BOX  DT BLUETOOTH DEVICE  ANT ANTENNA  SCR PROJECTOR SCREEN  SO LOUDSPEAKER CEILING MOUNTED  VOLUME CONTROL  SECURITY SYMBOLS  SECURITY CAMERA  SECURITY CAMERA  SECURITY CABLING PATHWAY  ACCESS CONTROL PANEL  RELEASE BUTTON  INTERCOM MASTER STATION  DURESS ALARM PUSH BUTTON  CARD READER  CARD READER  KEY PAD
CEILING BOX  BILUETOOTH DEVICE  ANTENNA  SCR PROJECTOR SCREEN  SOLUDSPEAKER CEILING MOUNTED  LOUDSPEAKER WALL MOUNTED  VOLUME CONTROL  SECURITY SYMBOLS  SECURITY CAMERA  SECURITY CAMERA  SECURITY CABLING PATHWAY  ACCESS CONTROL PANEL  RELEASE BUTTON  RELEASE BUTTON  DURESS ALARM PUSH BUTTON  CARD READER  CARD READER  CARD READER  CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
ANTENNA PROJECTOR SCREEN  LOUDSPEAKER CEILING MOUNTED LOUDSPEAKER WALL MOUNTED VOLUME CONTROL  ECURITY SYMBOLS  SECURITY CAMERA SECURITY CAMERA SECURITY CAMERA SECURITY CABLING PATHWAY ACCESS CONTROL PANEL RELEASE BUTTON INTERCOM MASTER STATION LOCKDOWN BUTTON DURESS ALARM PUSH BUTTON CR CARD READER CR M CARD READER, MULLION MOUNT LOCKDOWN STROBE  KEY PAD
LOUDSPEAKER CEILING MOUNTED LOUDSPEAKER WALL MOUNTED VOLUME CONTROL  ECURITY SYMBOLS  SECURITY CAMERA SECURITY CAMERA SECURITY CABLING PATHWAY ACCESS CONTROL PANEL RELEASE BUTTON INTERCOM MASTER STATION DURESS ALARM PUSH BUTTON CARD READER CARD READER CARD READER, MULLION MOUNT LOCKDOWN STROBE  KEY PAD
SECURITY SYMBOLS  SECURITY CAMERA SECURITY CAMERA SECURITY CABLING PATHWAY ACCESS CONTROL PANEL RELEASE BUTTON INTERCOM MASTER STATION LOCKDOWN BUTTON DURESS ALARM PUSH BUTTON CARD READER CARD READER, MULLION MOUNT LOCKDOWN STROBE KEY PAD
SECURITY SYMBOLS  SECURITY CAMERA SECURITY CAMERA SECURITY CAMERA SECURITY CABLING PATHWAY ACCESS CONTROL PANEL RELEASE BUTTON INTERCOM MASTER STATION LOCKDOWN BUTTON DURESS ALARM PUSH BUTTON CARD READER CARD READER CARD READER LOCKDOWN STROBE  KEY PAD
SECURITY CAMERA SECURITY CAMERA SECP SECURITY CABLING PATHWAY  ACCESS CONTROL PANEL  RELEASE BUTTON INTERCOM MASTER STATION LOCKDOWN BUTTON DURESS ALARM PUSH BUTTON CARD READER CARD READER CR CARD READER, MULLION MOUNT LOCKDOWN STROBE  KEY PAD
SECP SECURITY CABLING PATHWAY  ACP# ACCESS CONTROL PANEL  RELEASE BUTTON  INTERCOM MASTER STATION  LOCKDOWN BUTTON  DURESS ALARM PUSH BUTTON  CARD READER  CARD READER  CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
RELEASE BUTTON  INTERCOM MASTER STATION  LOCKDOWN BUTTON  DURESS ALARM PUSH BUTTON  CARD READER  CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
LOCKDOWN BUTTON  DURESS ALARM PUSH BUTTON  CARD READER  CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
CARD READER  CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
CARD READER, MULLION MOUNT  LOCKDOWN STROBE  KEY PAD
KEY PAD
INTERCOM
ACCESS CONTROL DETAIL INDICAT
CONTROL DETAILS AND SCHEDULE
NOTES: MOUNT DEVICES AT HEIGHTS INDICATED UNLESS OTHERWISE ON PLANS HEIGHTS ARE TO BOTTO
THERWISE ON PLANS. HEIGHTS ARE TO BOTTC
ELECTRICAL ABBREVIATIONS
(#) # INDICATES QUANTITIES (I.E. (4) 3" C CONDUITS)
(E) EXISTING  AFC ABOVE FINISHED CEILING  AFCI ARC FAULT CIRCUIT INTERRUPTER
AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION
AIC AMPERE INTERRUPTING CAPACITY  ALL ALUMINUM  AWG AMERICAN WIRE GALIGE
AWG AMERICAN WIRE GAUGE  BAS BUILDING AUTOMATION SYSTEM  BMS BUILDING MANAGEMENT SYSTEM
C CONDUIT CT CURRENT TRANSFORMER
U COPPER FA DROP FROM ABOVE W DISHWASHER
M EMERGENCY  ELECTRONIC TRIP
EWC ELECTRIC WATER COOLER FD9 FUSIBLE DISCONNECT SWITCH
GAP GENERATOR ANNUNCIATOR PANEL GD GARBAGE DISPOSAL GEC GROUNDING ELECTRODE CONDUCTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER GFP GROUND FAULT PROTECTION OF EQUI
GND GROUND IAW IN ACCORDANCE WITH
IC INCOMETION CONTRACT
IC INSULATION CONTACT  IDF INTERMEDIATE DISTRIBUTION FRAME  JB JUNCTION BOX
DF INTERMEDIATE DISTRIBUTION FRAME B JUNCTION BOX CMIL THOUSANDS OF CIRCULAR MILS
INTERMEDIATE DISTRIBUTION FRAME JUNCTION BOX CMIL THOUSANDS OF CIRCULAR MILS CP LIGHTING CONTROL PANEL DF MAIN DISTRIBUTION FRAME FDS NON-FUSIBLE DISCONNECT SWITCH
INTERMEDIATE DISTRIBUTION FRAME JUNCTION BOX CMIL THOUSANDS OF CIRCULAR MILS CP LIGHTING CONTROL PANEL IDF MAIN DISTRIBUTION FRAME FDS NON-FUSIBLE DISCONNECT SWITCH IC NOT IN CONTRACT L NIGHT LIGHT
IDF INTERMEDIATE DISTRIBUTION FRAME JB JUNCTION BOX  KCMIL THOUSANDS OF CIRCULAR MILS LCP LIGHTING CONTROL PANEL MDF MAIN DISTRIBUTION FRAME NFDS NON-FUSIBLE DISCONNECT SWITCH NIC NOT IN CONTRACT NL NIGHT LIGHT NTS NOT TO SCALE OC ON CENTER
IDF INTERMEDIATE DISTRIBUTION FRAME JB JUNCTION BOX  KCMIL THOUSANDS OF CIRCULAR MILS LCP LIGHTING CONTROL PANEL MDF MAIN DISTRIBUTION FRAME NFDS NON-FUSIBLE DISCONNECT SWITCH NIC NOT IN CONTRACT NL NIGHT LIGHT NTS NOT TO SCALE OC ON CENTER PB PULL BOX REF REFRIGERATOR RT RAINTIGHT
INTERMEDIATE DISTRIBUTION FRAME B JUNCTION BOX COMIL THOUSANDS OF CIRCULAR MILS CP LIGHTING CONTROL PANEL MDF MAIN DISTRIBUTION FRAME NFDS NON-FUSIBLE DISCONNECT SWITCH NIC NOT IN CONTRACT NIC NIGHT LIGHT NTS NOT TO SCALE DC ON CENTER PB PULL BOX REF REFRIGERATOR RT RAINTIGHT SPD SURGE PROTECTIVE DEVICE TAMPER RESISTANT
IDF INTERMEDIATE DISTRIBUTION FRAME JB JUNCTION BOX  KCMIL THOUSANDS OF CIRCULAR MILS LCP LIGHTING CONTROL PANEL MDF MAIN DISTRIBUTION FRAME NFDS NON-FUSIBLE DISCONNECT SWITCH NIC NOT IN CONTRACT NL NIGHT LIGHT NTS NOT TO SCALE OC ON CENTER PB PULL BOX REF REFRIGERATOR RT RAINTIGHT SPD SURGE PROTECTIVE DEVICE
DICATES QUANTITIES (I.E. (4) 3" CODUITS) FING  VE FINISHED CEILING FAULT CIRCUIT INTERRUPTER VE FINISHED FLOOR FORITY HAVING JURISDICTION FRE INTERRUPTING CAPACITY MINUM RICAN WIRE GAUGE DING AUTOMATION SYSTEM DING MANAGEMENT SYSTEM DUIT RENT TRANSFORMER PER PER PER RGENCY TRONIC TRIP TRIC WATER COOLER BLE DISCONNECT SWITCH FRATOR ANNUNCIATOR PANEL BAGE DISPOSAL JNDING ELECTRODE CONDUCTOR JND FAULT CIRCUIT INTERRUPTER JND FAULT PROTECTION OF EQUI JND CCORDANCE WITH



KEYED NOTES - ELECTRICAL - DEMOLITION

- REMOVE RECEPTACLE, ALL ASSOCIATED RACEWAY, ACCESSIBLE CONDUIT, AND WIRE BACK TO NEAREST ACTIVE JUNCTION BOX. RETAIN EXISTING CIRCUIT FOR NEW
- REMOVE LIGHT FIXTURE AND RETURN TO OWNER. REMOVE LIGHTING CIRCUIT, CONDUIT,
- REMOVE ELECTRICAL EQUIPMENT AND CONDUIT STUB ALONG WITH ALL ASSOCIATED WIRE BACK TO SOURCE. RETAIN IN SLAB CONDUIT FOR REUSE AND EXTENSION TO NEW
- 4 REMOVE CONNECTION TO EQUIPMENT TO BE REMOVED, RETAIN FEED FOR REUSE.



<b>_</b>	ΔΝΙ	FI R	λAR	" חי	DPM	12" I	ΩΔΙ	D SC	CHEC	)		
										OL		
PANEL: DPM2				MO	UNTING:						VOLTAGE: 208/120V, 3PH, 4W	
LOCATION: KITCHEN STORAGE 62 / Le	veri			D TUDU		: 225 A N	VILO				FED FROM: DPM1	
ADDED ACCESSORIES:			FEE	D-THRU	LUGS	. NO					A.I.C. VALUE:	-INIC)
											(PROVIDE 25% HIGHER A.I.C. RAT	ING)
CIRCUIT DESCRIPTION	TRIP (A)	POLES	Α(	VA)	В (	VA)	C (	VA)	POLES	TRIP (A)	CIRCUIT DESCRIPTION	
EXISTING - RECEPTS. SNACK/FACULTY ROOM	20	1	180	800					2	40	EXISTING - FREEZER	2
B EXISTING - RECEPTS. N. SERVING AREA ENTRY	20	1			180	800						4
EXISTING - RECEPTS. S.E. COR. SNACK AREA	20	1					180	240	1	20	EXISTING - FREEZER LIGHT/RECEPT.	6
SPACE		1		0					1	20	SPARE	8
SPACE		1				0			1	20	EXISTING - WALK IN COOLER CONTROL	10
EXISTING - RECEPTS. S.W. COR. SNACKS	20	1					180	0	2	20	SPARE	12
KITCHEN - 401 - HOT FOOD TABLE	30	2	2122	0								14
j					2122	0			2	20	SPARE	16
EXISTING - MILK COOLERS SERVING AREA	20	1					600	0				18
KITCHEN - 411 - HEATED SLANTED SANDWHICH	30	2	1872	4000					3	100	EXISTING - CAFE/HOUSE LITE DIMMER	20
					1872	4000						22
KITCHEN - 204E - HOT FOOD CABINET	20	1					1440	4000				24
EXISTING - HEATED PASS TRU	20	2	250	576					1	20	KITCHEN - 101 - REFRIGERATOR	26
					250	576			1	20	KITCHEN - 410 - SANDWICH SLIDE	28
SPACE		1						576	1	20	KITCHEN - 405 - ICE CREAM DISPLAY FREEZER	30
KITCHEN - 408 - DROP-IN HEATED SURFACE	20	1	1332	1591					2	20	KITCHEN - 414 - AIR CURTAIN REFRIGERATOR	32
KITCHEN - 413 - HEAT LAMP ASSEMBLY	20	1			960	1591						34
KITCHEN - 403 - COLD FOOD TABLE	20	1					1140	0	1	20	SPARE	36
KITCHEN - 404 - DROP-IN HOT/COLD WELLS	30	1	2184	0			1110		1	20	SPARE	38
KITCHEN - 404A - SNEEZE GUARD	20	1	2107		120				1		SPACE	40
KITCHEN - 204W - HOT FOOD CABINET	20	1			120		1440		1		SPACE	42
RITCHEN - 204W - 11011 OOD CABINET		L LOAD:	1/100	│ )7 VA	1247	│ ′1 VA	9796		· ·		SFACE	42
ADDITIONAL FEED THRU LUGS LOAD (II												
ADDITIONAL FEED THRU LUGS LOAD (II		,		VA o A		VA z A	0					
AAD CLASSIEICATION		L AMPS: NECTED I		8 A		7 A	82 ESTIM		EMAND		PANEL TOTALS	
AD CLASSIFICATION	_		_		AND FA				EMAND		PANEL TOTALS	
are		15660 VA			100.00%			15660 V		то-	FAL CONNECTED LOAD: 27172 \/A	
CHEN -		21513 VA			100.00%	)	4	21513 V	A		FAL CONNECTED LOAD: 37173 VA	
									-		L ESTIMATED DEMAND: 37173 VA	
											CONNECTED LOAD (A): 103 A	
OTFO:										IUIAL	ESTIMATED DEMAND 103 A	
OTES:  PROVIDE SPD BREAKER PER ONELINE SCHEI AIC RATING IS CALCULATED VALUE, PROVIDE		ING AT LE							Okva x 10	0% + 5	0% OF REMAINDER	

		CURRENT	DEMAND				FEEDER			
DESCRIPTION	FED FROM	(FLA)	(FLA)	BREAKER / POLES		# OF SETS	WIRE	GROUND	EMT	NOTES
208 V					-				-	
KITCHEN - 401 - HOT FOOD TABLE	DPM2	20 A	20 A	30 A / 2	1	SET	3 #10	#10 GND.	3/4"	1
KITCHEN - 411 - HEATED SLANTED SANDWHICH SLIDE	DPM2	18 A	18 A	30 A / 2	1	SET	3 #10	#10 GND.	3/4"	1
KITCHEN - 414 - AIR CURTAIN REFRIGERATOR	DPM2	15 A	15 A	20 A / 2	1	SET	3 #12	#12 GND.	3/4"	1
KITCHEN - 101 - REFRIGERATOR  KITCHEN - 204F - HOT FOOD CABINET	DPM2	5 A	5 A	20 A / 1	1	SET SET	2 #12 2 #12	#12 GND.	3/4"	
120 V		T								
KITCHEN - 204E - HOT FOOD CABINET	DPM2	12 A	12 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 204W - HOT FOOD CABINET	DPM2	12 A	12 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 403 - COLD FOOD TABLE	DPM2	10 A	10 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 404 - DROP-IN HOT/COLD WELLS	DPM2	18 A	18 A	30 A / 1	1	SET	2 #10	#10 GND.	3/4"	
KITCHEN - 404A - SNEEZE GUARD	DPM2	1 A	1 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 405 - ICE CREAM DISPLAY FREEZER	DPM2	5 A	5 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 408 - DROP-IN HEATED SURFACE	DPM2	11 A	11 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 410 - SANDWICH SLIDE	DPM2	5 A	5 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	
KITCHEN - 413 - HEAT LAMP ASSEMBLY	DPM2	8 A	8 A	20 A / 1	1	SET	2 #12	#12 GND.	3/4"	

KEYED NOTES - ELECTRICAL - POWER

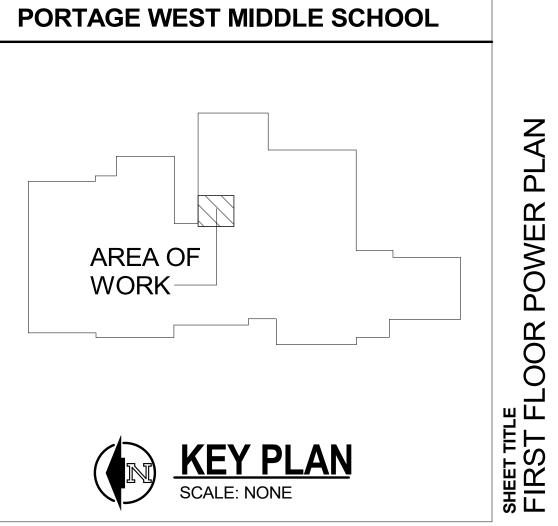
CONNECT NEW RECEPTACLE TO NEAREST UNSWITCHED 120V CIRCUIT.

EXTEND CONDUIT TO NEW LOCATION AND STUB UP TO PEDESTAL MOUNTED RECEPTACLE AS DETAILED IN FOOD SERVICE PLANS.

3 REINSTALL DEVICE IN NEW CEILING. REWORK AND EXTEND CIRCUIT AS REQUIRED.

E 101 23-186.00

KEY PLAN
SCALE: NONE

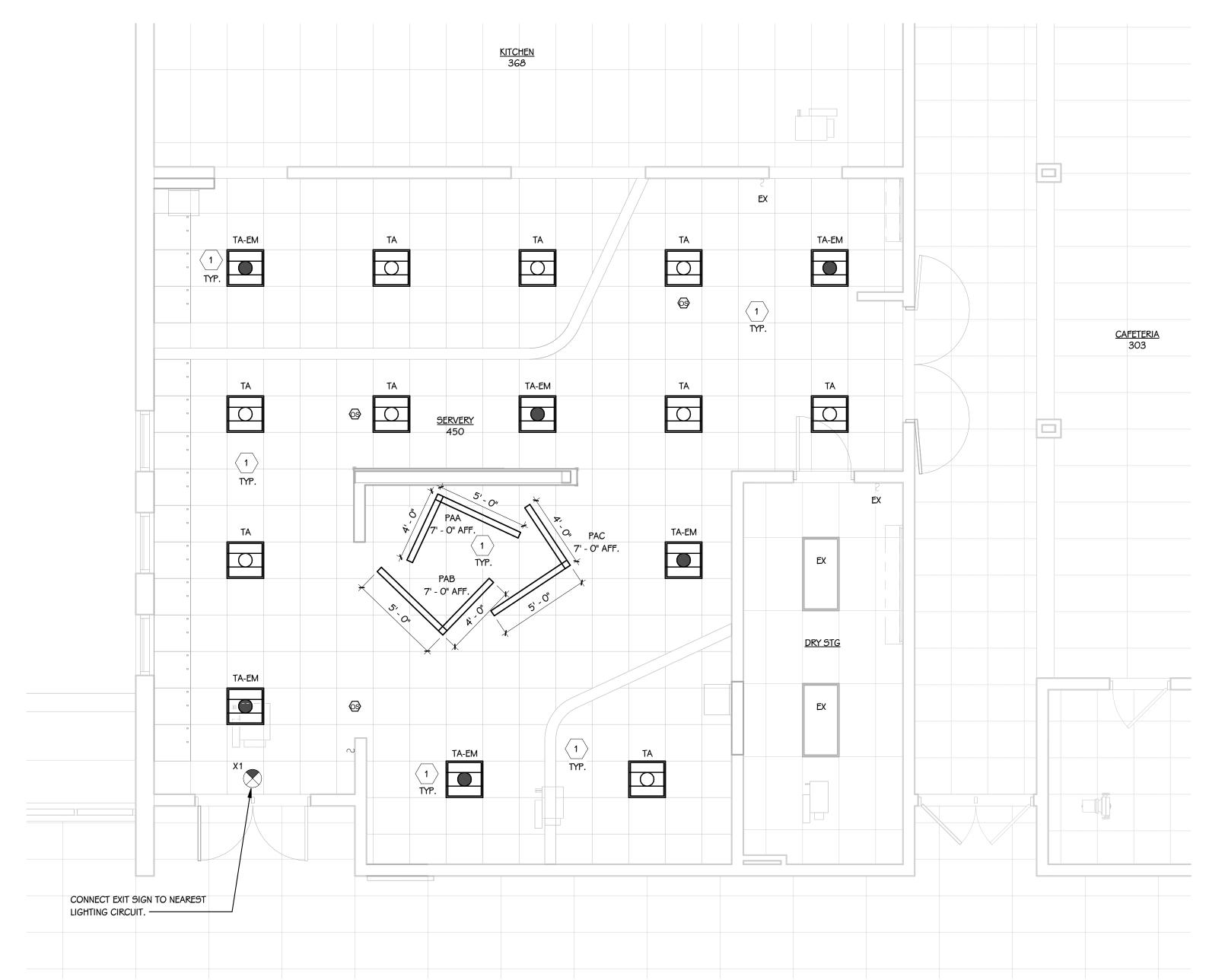


PE	SERIES	DESCRIPTION	MOUNTING	CEILING TYPE	DRIVER	WATTS	MANUFACTURER	NOTES
Α	TA	2X2 TROFFER, 2' - 0" LONG	RECESSED	ACOUSTIC GRID	0-10V	37 VA	FINELITE #HPR-LED-F-2X2-DCO-B-840-MVOLT-SC-C1	1, 2
-EM	TA-EM	2X2 TROFFER, 2' - 0" LONG	RECESSED	ACOUSTIC GRID	0-10V	37 VA	FINELITE #HPR-LED-F-2X2-DCO-B-840-MVOLT-SC-C1-LGD10W	1, 2
1	X1	EXIT SIGN - EDGE LIT	SURFACE	ACOUSTIC GRID		5 VA	LITHONIA #EDG-1-RMR-EL	1, 2

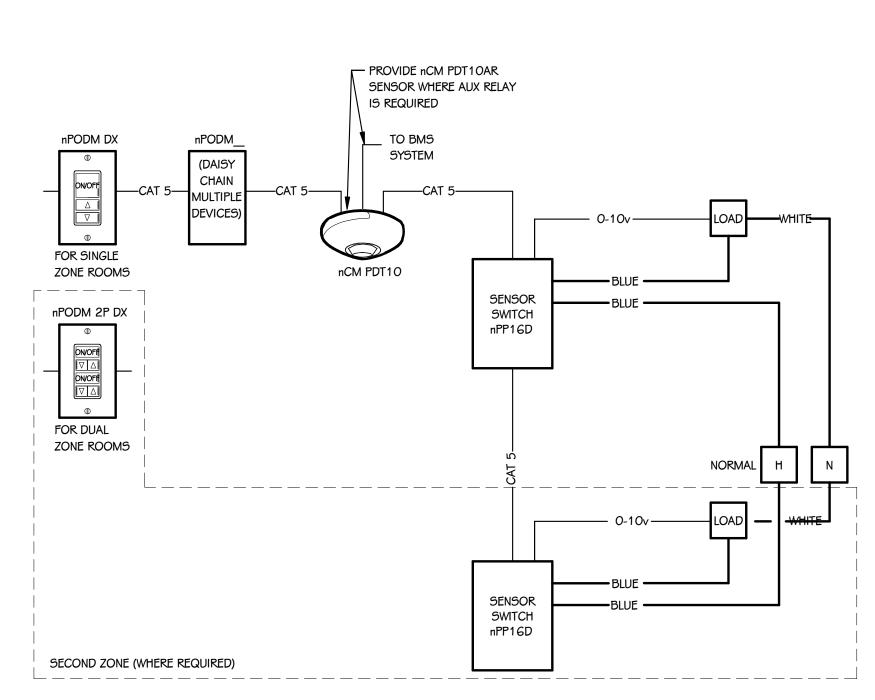
LIGHT FIXTURE SCHEDULE - CUSTOM MITERED ASSEMBLIES	

CUSTOM	CEDIEC	ESTIMATED TOTAL LENGTH		DESCRIPTION	MOUNTING	CEILING TYPE	DDIVED	WATTE	MANUEACTURED	NOTES
COSTOW	SERIES	LENGIH		DESCRIPTION	MICUNTING	ITPE	DRIVER	WATTS	MANUFACTURER	NOIES
PAA	PA	9' - 0"	PENDANT LINEAR		PENDANT	ACOUSTIC GRID	0-10V	90 VA	OCL #9L19-P1EM-W-AN9-(LENGTH)-MW-(FINISH)-LED1/40K-UNV-DM1	1, 2, 3
PAB	PA	9' - 0"	PENDANT LINEAR		PENDANT	ACOUSTIC GRID	0-10V	90 VA	OCL #5L15-P1EM-W-AN5-(LENGTH)-MW-(FINISH)-LED1/40K-UNV-DM1	1, 2, 3
PAC	PA	9' - 0"	PENDANT LINEAR		PENDANT	ACOUSTIC GRID	0-10V	90 VA	OCL #SL15-P1EM-W-ANS-(LENGTH)-MW-(FINISH)-LED1/40K-UNV-DM1	1, 2, 3

- FIELD COORDINATE AND FIELD MEASURE FOR CUSTOM LENGTH FIXTURES, LENGTHS PROVIDED ARE ROUNDED AND DEPEND ON FIELD CONDITIONS. ALL LED FIXTURES TO HAVE WARRANTY TO MEET OR EXCEED WARRANTY INCLUDED IN BASIS OF DESIGN. FIXTURES LISTED AS EQUALS SHALL MEET DELIVERED LUMENS, CRI, EFFICACY AND OPTIONS OF THAT SPECIFIED. REFER TO
- SPECIFICATIONS 265100 AND 265600 FOR ADDITIONAL REQUIREMENTS.
- THE MOUNTING DESCRIPTION IS GENERAL. REFER TO SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC MOUNTING DETAILS.
- ONLY SUBMIT ONE SET OF LINEAR FIXTURE INFORMATION PER FIXTURE SERIES WHERE VARIOUS LENGTH FIXTURES OF SAME SERIES ARE USED.
- FIXTURE LENGTH PER LIGHTING FLOOR PLANS. FIELD VERIFY BEFORE ORDERING AND COORDINATE WITH FRAMING CONTRACTOR FOR HOLD DIMENSIONS. EXIT SIGNS DIRECTIONAL ARROWS TO BE CONFIRMED ON PLANS PRIOR TO ORDERING. ARROWS ON GRAPHICS MAY NOT MATCH THOSE OF DESCRIPTION DUE TO FACE DIRECTION IN REFERENCE.
- FIXTURES WITH THE CENTER CIRCLE SHADED SHALL HAVE A SELF-CONTAINED EMERGENCY BATTERY PACK OPERATING TWO LAMPS AT A MINIMUM OF 1100 LUMENS FOR 90 MINUTES. FIXTURES WITH THE CENTER CIRCLE
- COMPLETELY SHADED SHALL BE ON 24 HOURS. ON WIRE BATTERY AND BALLAST SO FIXTURE TURNS "ON" WHEN POWER FAILS.







OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NONE

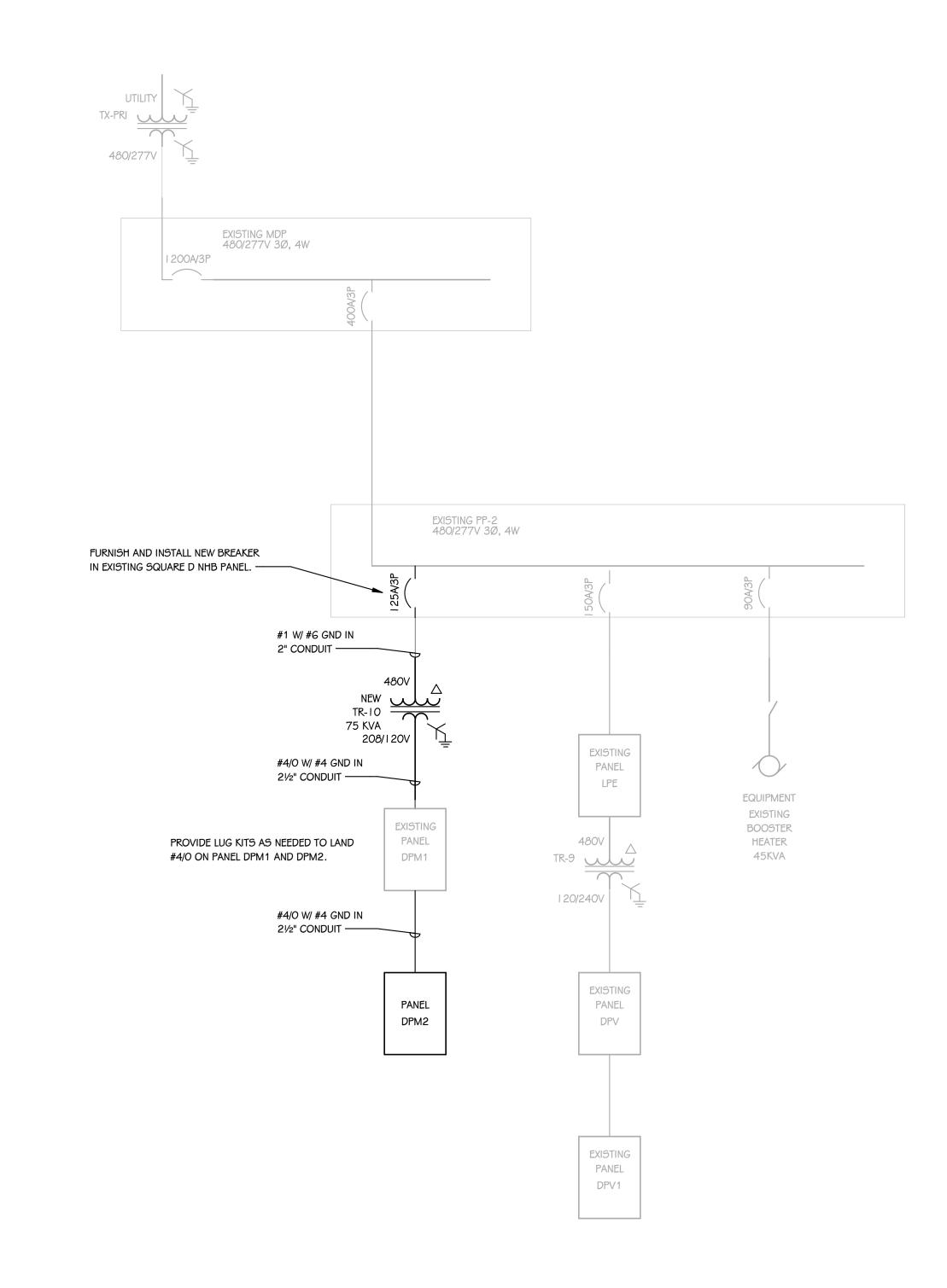
| KEYED NOTES - ELECTRICAL - LIGHTING

1 CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT.

KEY PLAN
SCALE: NONE

PORTAGE WEST MIDDLE SCHOOL AREA OF WORK

PARTIAL ONE-LINE DIAGRAM - DEMOLITION SCALE: NONE



# PARTIAL ONE-LINE DIAGRAM - NEW CONSTRUCTION SCALE: NONE

PANEL PP2 ELECTRICAL LOAD CALCULATION: BOOSTER HEATER 237.7A @ 480V/3Ø

ELECTRICAL LOAD CALCULATION:	
ELECTRICAL EGY OF ALGOE WHOM	
ESTIMATED REMOVED LOADS:	
120V ITEM:	LOAD:
MILK COOLER	7A
ICE CREAM CABINET	5.8A
SERVICE STAND	5. <i>8</i> A
REFRIGERATOR SANDWICH UNIT	7.2A
SANDWICH UNIT	5.8A
208V/1Ø ITEM:	LOAD:
SERVING COUNTER	14.4A
SERVING COUNTER	14.4A
SERVING COUNTER	14.4A
TOTAL:	35.5A @ 208V/3Ø
	<del></del>
NEW LOADS ADDED:	LOAD:
NEW LONDS NODES.	LOND.
120V ITEM:	
REFRIGERATOR	4.9A
HOT FOOD CABINET	12.0A
COLD FOOD TABLE	9.5A
DROP-IN HOT/COLD WELLS	18.2A
SNEEZE GUARD	1.OA
CASH REGISTERS	10.0A
DROP-IN HEATED SURFACE	11.1A
SANDWICH TOP REFRIGERATOR	4.8A
DECORATIVE HEAT LAMP ASSEMBLY	8.0A
208V/1Ø ITEM:	00.44
HOT FOOD TABLE	20.4A
HEATED SLANTED SANDWICH SLIDE	18.4A
AIR CURTAIN REFRIGERATOR	15.3A
TOTAL:	57.7A @ 208V/3Ø
	-

<ul> <li>□</li> <li>□</li></ul>	TRUCTURED CABLING  MOUNTING HEIGHTS  DATAVOICE OUTLET - 4 9Q BOX, 9G COVER, 1" CONDUIT 9TUB  DATAVOICE OUTLET - 4 9Q BOX, 9G COVER, 9URFACE #WM500  16"  DATAVOICE OUTLET - 4 9Q BOX, 9G COVER, 9URFACE #WM500  DATAVOICE OUTLET - 4 9Q BOX, 9G COVER, 9URFACE #WM500  16"  DATAVOICE OUTLET - 4 9Q BOX, 9G COVER, 1" CONDUIT 9TUB  4" ABOVE BACKSPLASH  SECURITY CONTROL9 PATHWAY - 4 9Q BOX, 9G COVER WITH BRU9H PLATE, 1" CONDUIT 9TUB  WIRELE99 ACCE99 POINT (REFER TO DETAIL9)  GROUNDING BU9 BAR WITH DEDICATED GROUND, (REFER TO DETAIL9)  CABLE TRAY, (12"x4" UNLE99 NOTED OTHERWI9E)  CLOCK (REFER TO DETAIL9)  PAGING 9Y9TEM HEAD END  TQ₽  NETWORK COMMUNICATION RACK - FLOOR 9TANDING 3' CLEAR ON BOTH 9IDE9  4X8/X3/4" FIRE-RATED PLYWOOD, A/C FINI9H, MOUNT VERTICALLY  12"  CONDUIT 9LEEVE IN ACCE99IBLE CEILING (2" CONDUIT UNLE99 NOTED OTHERWI9E, ONLY 9HOWN ON PLANS INDICATING 9PECIFIC CONDITIONS, REFER TO GENERAL NOTE9 FOR 9LEEVES THAT ARE REQUIRED INTO ALL 9PACE9)  UDIO/VISUAL  TV WALL RECE99ED "F9R" BACKBOX, (REFER TO DETAIL9)  AV WALL STATION BOXES, USE F9R MUDRING MUD-2G-" FOR 2-GANG OPENING9 (REFER TO DETAIL9)  AV WALL STATION BOXES, USE F9R MUDRING MUD-2G-" FOR 2-GANG OPENING9 (REFER TO DETAIL9)  MICROPHONE JACK  16"  MICROPHONE JACK  16"  BLUETOOTH DEVICE - DEEP 4 9Q BOX, 1-G OPENING, (REFER TO DETAIL9) 40"  ANTENNA, (REFER TO DETAIL9)  PROJECTOR 9CREEN, (REFER TO DETAIL9)  PROJECTOR 9CREEN, (REFER TO DETAIL9)	GENERAL NOTES - PAGING AND CLOCK  1 FOR CLOCKS REQUIRING A MANUFACTURER-SPECIFIC IN-WALL ROUGH-IN BOX, THE CLOCK CONTRACTOR SHALL PROVIDE THE ROUGH-IN BOX TO ELECTRICIAN FOR WALL INSTALLATION. THE CLOCK CONTRACTOR AND ELECTRICIAN SHALL COORDINATE AHEAD OF SCHEDULED WALL INSTALLATIONS. COORDINATE WITH CONSTRUCTION MANAGER.  2 PAGING AND CLOCK CONTROLLERS SHALL BE PROPERLY CONFIGURED FOR TIME SYNCHRONIZATION WITH OWNER'S NETWORK TIME PROTOCOL (NTP) SOURCE. COORDINATE NTP ADDRESS WITH OWNER.  3 PAGING SPEAKER CABLING SHALL BE SIZED APPROPRIATELY FOR CABLE LENGTH AND POWER LOAD OF A GIVEN CIRCUIT.  4 FOR WIRELESS CLOCK SYSTEMS THAT REQUIRE FCC LICENSURE, THE CLOCK INTEGRATOR SHALL COORDINATE ANY REQUIRED LICENSE APPLICATION FORMS THAT ARE REQUIRED TO BE COMPLETED BY THE OWNER.  5 THE CLOCK INTEGRATOR SHALL BE RESPONSIBLE FOR REVIEW OF THE PROJECT ARCHITECTURAL ELEVATIONS AND ADHERE TO CLOCK PLACEMENT/ALIGNMENT GUIDELINES. ANY PLACEMENT CLARIFICATION REQUESTS SHALL BE MADE BY RFI.  6 FOR INTEGRATION OF NEW PAGING HEADEND HARDWARE TO PRE-EXISTING PAGING CIRCUITS, THE PAGING INTEGRATOR SHALL PERFORM A PRE-INSTALLATION SPEAKER TEST OF ALL EXISTING SPEAKERS. ANY FAULTY EXISTING SPEAKERS SHALL BE NOTED AND COMMUNICATED TO THE CM/ARCHITECT PRIOR TO THE INSTALLATION OF NEW EQUIPMENT.  7 THE PAGING SYSTEM INTEGRATOR SHALL PROVIDE INTERCONNECTION CABLING TO THE PRIMARY FIRE ALARM PANEL TO ALLOW THE FIRE ALARM SYSTEM TO OVERRIDE PAGING. CONNECTION AT THE FIRE PANEL SHALL BE BY THE FIRE ALARM INTEGRATOR. COORDINATE WITH OTHER TRADES.  8 THE PAGING SYSTEM RISER DETAIL IS INTENDED TO BE DIAGRAMMATICAL FOR THE PURPOSE OF UNDERSTANDING THE BASIC SYSTEM ARCHITECTURE. THE PAGING INTEGRATOR SHALL PROVIDE ALL COMPONENTS, CABLES AND ADAPTERS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM, REGARDLESS IF SHOWN ON THE DIAGRAM.	TECHNOLOGY CONTRACTOR SHALL COORDINATE WITH G SERIES SHEETS DEVICE COORDINATION DETAIL. DEVICES ARE TO ALIGN VERTICALLY AND HORIZONTALLY AND FOLLOW THE RULES OF THIS DETAIL CONSISTENTLY. A PRE-INSTALL DEVICE COORDINATION MEETING FOR DEVICE FINISHES AND LAYOUT MAY BE REQUIRED IN THE SPECIFICATION FOR THIS PROJECT.  3 REFER TO TECHNOLOGY, ELECTRICAL AND ARCHITECTURAL DETAILS AND ELEVATIONS FOR SYMBOL INFORMATION AND ELEVATION DETAIL.  4 DEVICES AND EQUIPMENT SHOWN DASHED OR WITH AN "X" ARE TO BE REMOVED. FIXTURES, DEVICES AND EQUIPMENT SHOWN LIGHTLY OR WITH AN "E" ARE EXISTING TO REMAIN UNDISTURBED.  5 DEVICES SHOWN WITH AN "R" ARE EXISTING TO BE REPLACED WITH NEW DEVICE AND COVERPLATE.  6 TEMPORARILY SUPPORT EXISTING CEILING DEVICES TO REMAIN IN EXISTING CEILINGS TO BE REPLACED. REINSTALL DEVICES INTO NEW CEILING.  7 CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT PHASING. TEMPORARY WIRING TO KEEP SYSTEMS RUNNING SHALL BE PROVIDED AS REQUIRED WHILE BUILDING IS OCCUPIED BETWEEN PHASES OF CONSTRUCTION.	TowerPink  Architecture · Engineering · I
	DIOLOPSPEAKER CELLING - MOUNTED  COUNTY SYMBOLS  CEURITY SYMBOLS  CEURITY CAMERA - WALL  DECURITY CAMERA - WALL  DECURITY CAMERA - CEILING  DECURITY CAMERA  DECURITY CAMERA  DECURITY COMPUTES TO COMPUTE STUB  ACCESS CONTROL DETAIL INDICATOR: REFER TO ACCESS  CONTROL DETAILS AND SCHEDULE  NOTES:  NOTES:  NOTES:  NOTES:  NOTES:  NOTES THE COMPUTE ON PLANS. HEIGHTS ARE TO BOTTOM OF DEVICE.	GENERAL NOTES - AUDIO SYSTEM  1 AUDIO SYSTEM SHALL BE FREE OF NOISE, RATTLE, HUM, BUZZ, OR ANY OTHER AUDIO DISTORTIONS  2 SECURE CABLES UTILIZING VELCRO STRAPS. WIRE "ZIP TIES" SHALL NOT BE USED  3 ROUTE ALL CABLES IN A MANNER THAT WILL ENSURE SIGNAL INTEGRITY AND WILL NOT INTRODUCE CROSSTALK  4 PROVIDE A SERVICE LOOP FOR RACKS AND EQUIPMENT SUITABLE TO EASILY PLUG AND UNPLUG EQUIPMENT FOR TROUBLESHOOTING OR REPLACEMENT  5 NEATLY DRESS ALL CABLING INSTALLED INSIDE AND OUTSIDE OF RACKS IN A SUITABLE HARNESS TO KEEP CABLES CLEAN, NEAT, AND TIDY  6 COMMISSION AUDIO SYSTEM USING AUDIO MEASUREMENT MICROPHONE AND SOFTWARE (SMAART OR EASERA)  7 ADJUST EQ AND CROSSOVER SETTINGS IN AMPLIFIER AND/OR DSP TO PROVIDE FLAT FREQUENCE RESPONSE, FULL RANGE AUDIO WITH PROTECTIVE LIMITING  8 USE SPEECH, HIGH QUALITY REFERENCE AUDIO, AND SINE WAVE SWEEPS TO TEST THE SYSTEM - CORRECT ANY ABNORMALITIES  9 VERIFY PROPER FUNCTION OF ALL INSTALLED EQUIPMENT (NEW AND EXISTING)  10 TURN OVER EXISTING UNUSED EQUIPMENT TO OWNER - NEATLY ORGANIZED  11 COORDINATE WITH OWNER FOR LABELING OF EQUIPMENT AND AUDIO CONSOLE CHANNELS AND BUSSES AS WELL AS CONSOLE CONFIGURATION  12 REMOTE MOUNT ALL ANTENNAS AS REQUIRED FOR MAXIMUM PERFORMANCE  13 CONFIGURE DELAYS ON ANY SPEAKERS THAT ARE STAGGERED IN A LISTENING PLANE TO TIME-ALIGN AUDIO  14 CONNECT COMPONENTS TO POWER SEQUENCER IN SUCH A WAY AS TO MITIGATE POPPING AND SYSTEM DAMAGE DURING SYSTEM POWER UP AND POWER DOWN  5 GENERAL NOTES - VIDEO SYSTEM  1 INSTALLED VIDEO SYSTEMS SHALL NOT HAVE NOISE, FLICKER, UNEVEN BRIGHTNESS, OR ANY OTHER VISUAL ANDOMOLIES OR DEFICIENCIES  2 EDID SHALL BE MANAGED AND MAINTAINED TO ENSURE PROPER DISPLAY IDENTIFICATION BY SOURCES  3 HDCP SHALL BE MAINTAINED FROM ALL SOURCES TO ALL SINKS  4 COORDINATE ALL NETWORK NEEDS WITH OWNER INCLUDING IP ADDRESSING, PROTOCOLS REQUIRED FOR EQUIPMENT OPERATION, AND BANDWIDTH IMPLICATIONS	SUBMITTED TO TOWERPINKSTER AS PART OF THE CLOSEOUT PACKAGE.	THE SCHOOL SERVERY  ODEL
				PORTAGE PUBLIC SCHOOL Portage, Michigan
				HNOLOGY SYMBOLS AND GENERAL FS.  NUMBER JANUARY 16, 2024 36.00



KEYED NOTES - TECHNOLOGY - DEMOLITION

REMOVE DEVICE, MOUNTING HARDWARE, ALL ASSOCIATED RACEWAY, AND CABLING. RETURN DEVICE AND MOUNTING HARDWARE TO OWNER.

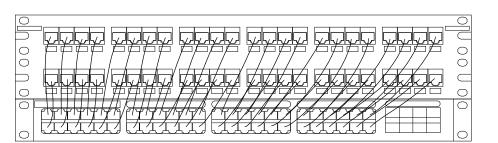
REMOVE DEVICE, ROUGH-IN, ALL ASSOCIATED RACEWAY, AND CABLING. KEEP EXISTING DEVICE FOR REUSE IN ANOTHER LOCATION.

SHEET TITLE
FIRST FLOOR TECHNOLC
DEMOLITION PLAN

KEY PLAN
SCALE: NONE

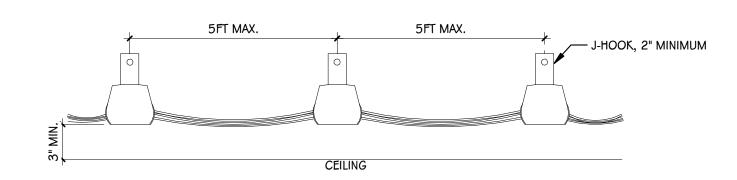






PATCH PANEL SHALL BE
NUMBERED IN THE SAME
PATTARN AS THE SWITCH.
SWITCH PORT NUMBER SHALL
CONNECT TO SAME PORT
NUMBER ON PATCH PANEL.

# SWITCH - PATCH PANEL CROSS CONNECT SAMPLE SCALE: NONE

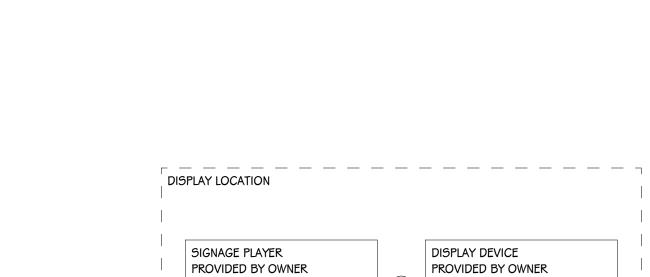


PROVIDED BY OWNER

DISPLAY MOUNT

MTM1U

CABLE SUPPORT DETAIL
SCALE: NONE



PROVIDED BY OWNER

NETWORK JACK

SEE JACK SCHEDULE

AV1 RISER
SCALE: NONE

SEE JACK SCHEDULE

	<u>c</u>	6 B
		8
B		

INTERIOR SECURITY CAMERA CABLING DETAIL

	BOT. OF STRUCTURE			BOT. OF STRUCTURE
	CEILING	— POWER — 1" CONDUIT WITH CATEGORY CABLES, QUANTITIES PER PLAN		CEILING
-		— DISPLAY DEVICE		POWER  RACEWAY WITH CATEGORY  CABLES, QUANTITIES PER PLAN
7' - 4"	=_	→ RECESSED AV BOX  GYP WALL: FSR #PWB-100  FIRE-RATED WALL: FSR #PWB-FR-450  CMU WALL: FSR #PWB-CMU8  PROVIDE SPD RECEPTACLE IN BOX	7' - 4"	

TELEVISION "B" DETAIL
SCALE: NONE

		AV1 EQUIP	MENT SCHEDULE	
KEY#	DESCRIPTION	MANUFACTURER	PART#	COMMENTS
1	DISPLAY DEVICE	PROVIDED BY OWNER	PROVIDED BY OWNER	
2	DISPLAY MOUNT	CHIEF	MTM1U	COORDINATE LOCATION OF MOUNT WITH OWNER PROVIDED DISPLAY TO ACHIEVE MOUNTING HEIGHT INDICATED ON DRAWINGS.
3	SIGNAGE PLAYER	PROVIDED BY OWNER	PROVIDED BY OWNER	
4	NETWORK JACK	SEE JACK SCHEDULE	SEE JACK SCHEDULE	PROVIDE SURFACE-MOUNT BISCUIT. SEE FACEPLATE SCHEDULE.
A	CAT6 CABLE	SEE CABLE SCHEDULE.		LENGTH AS REQUIRED FOR APPLICATION.
В	CAT6 PATCH CORD	SEE CABLE SCHEDULE.		LENGTH AS REQUIRED FOR APPLICATION.
K	HDMI CORD	KRAMER	C-HM/HM/PICO/[XX]-[##]	LENGTH AS REQUIRED FOR APPLICATION WITH "##". MATCH COLOR WITH "XX". USE C-HM/HM/PRO-[##] FOR LENGTHS OVER 9 FEET.

TELEVISION "A" DETAIL

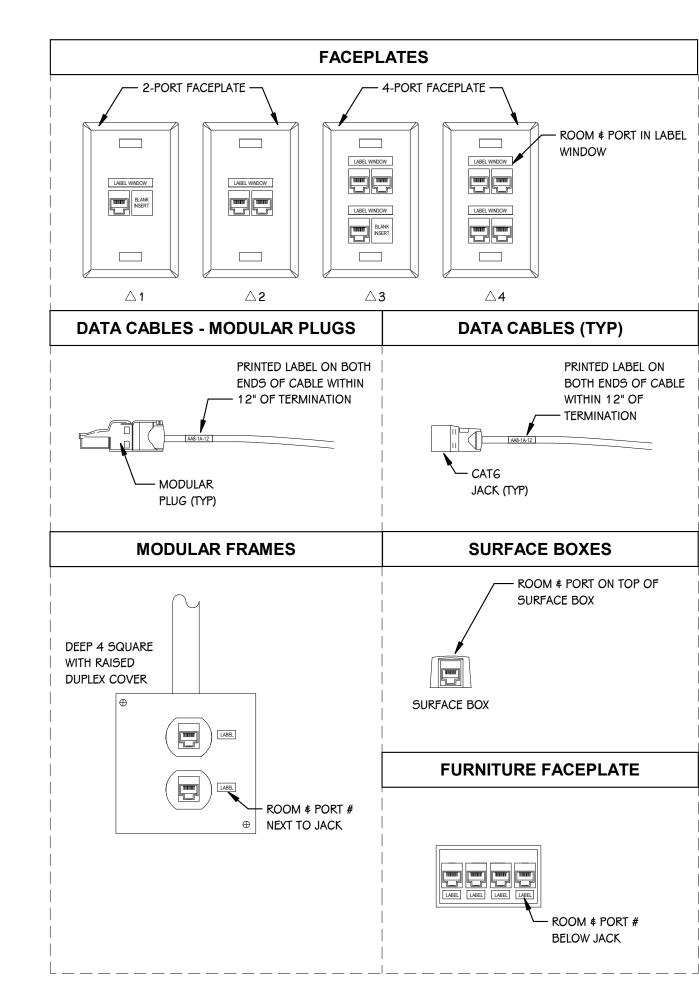
1/2" = 1'-0"

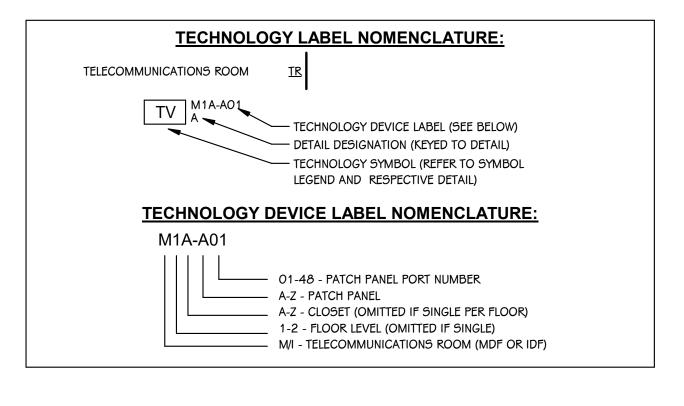
		INTERIOR CAMERA	A EQUIPMENT SCHEDULE	
KEY#	DESCRIPTION	MANUFACTURER	PART#	COMMENTS
1	NETWORK SWITCH	PROVIDED BY OWNER	PROVIDED BY OWNER	
5	PATCH PANEL	REFER TO RACK SCHEDULE	REFER TO RACK SCHEDULE	
6	SURFACE MOUNT BOX	PANDUIT	CBX1**-A	
8	CAMERA	PROVIDED BY OWNER	PROVIDED BY OWNER	
В	PATCH CORD	REFER TO SCHEDULE	REFER TO SCHEDULE	
С	CATEGORY CABLE	REFER TO SCHEDULE	REFER TO SCHEDULE	INCLUDE MINIMUM 15FT SERVICE LOOP

DATA CABLE SCHEDULE					
COLOR	RATING	TYPE	PURPOSE	MANUFACTURER	PART#
RED	RISER	CAT6	DATA BACKBONE	GENERAL CABLE	7133804
ORANGE	RISER	CAT6	CLOCKS AND PAGING	GENERAL CABLE	7133805
YELLOW	RISER	CAT6A	ACCESS POINTS	GENERAL CABLE	7143802
GREEN	RISER	CAT6	POTS BACKBONE	GENERAL CABLE	7133806
BLUE	RISER	CAT6	GENERAL DATA	GENERAL CABLE	7133800
VIOLET	RISER	CAT6	SECURITY CAMERAS	GENERAL CABLE	7133809
BLACK	RISER	CAT6	A/V	GENERAL CABLE	7133807
PINK	RISER	CAT6	HVAC	GENERAL CABLE	7133808

DATA JACK SCHEDULE						
COLOR	PURPOSE	MANUFACTURER	PART#			
RED	DATA BACKBONE	PANDUIT	CJ688TGRD			
ORANGE	CLOCKS AND PAGING	PANDUIT	CJ688TGOR			
YELLOW	ACCESS POINTS	PANDUIT	CJ6X88TGYL			
GREEN	POTS BACKBONE	PANDUIT	CJ688TGGR			
BLUE	GENERAL DATA	PANDUIT	CJ688TGBU			
VIOLET	SECURITY CAMERAS	PANDUIT	CJ688TGVL			
BLACK	A/V	PANDUIT	CJ688TGBL			

COLOR	TYPE	MANUFACTURER	PART#
MATCH ELEC	1-PORT FACEPLATE, SINGLE-GANG	PANDUIT	CFPL1**Y
MATCH ELEC	2-PORT FACEPLATE, SINGLE-GANG	PANDUIT	CFPL2**Y
MATCH ELEC	3-PORT FACEPLATE, SINGLE-GANG	PANDUIT	CFPL3**Y
MATCH ELEC	4-PORT FACEPLATE, SINGLE-GANG	PANDUIT	CFPL4**Y
MATCH ELEC	6-PORT FACEPLATE, SINGLE-GANG	PANDUIT	CFPL6**Y
MATCH ELEC	1-PORT SURFACE BOX	PANDUIT	CBX1IW-A
MATCH ELEC	2-PORT SURFACE BOX	PANDUIT	CBX2IW-AY
MATCH FURNITURE	4-PORT FURNITURE PLATE	PANDUIT	VARIES







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EST MIDDLE SCHOOL SEMODEL

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Portage, Michiga

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ET NUMBER **401**