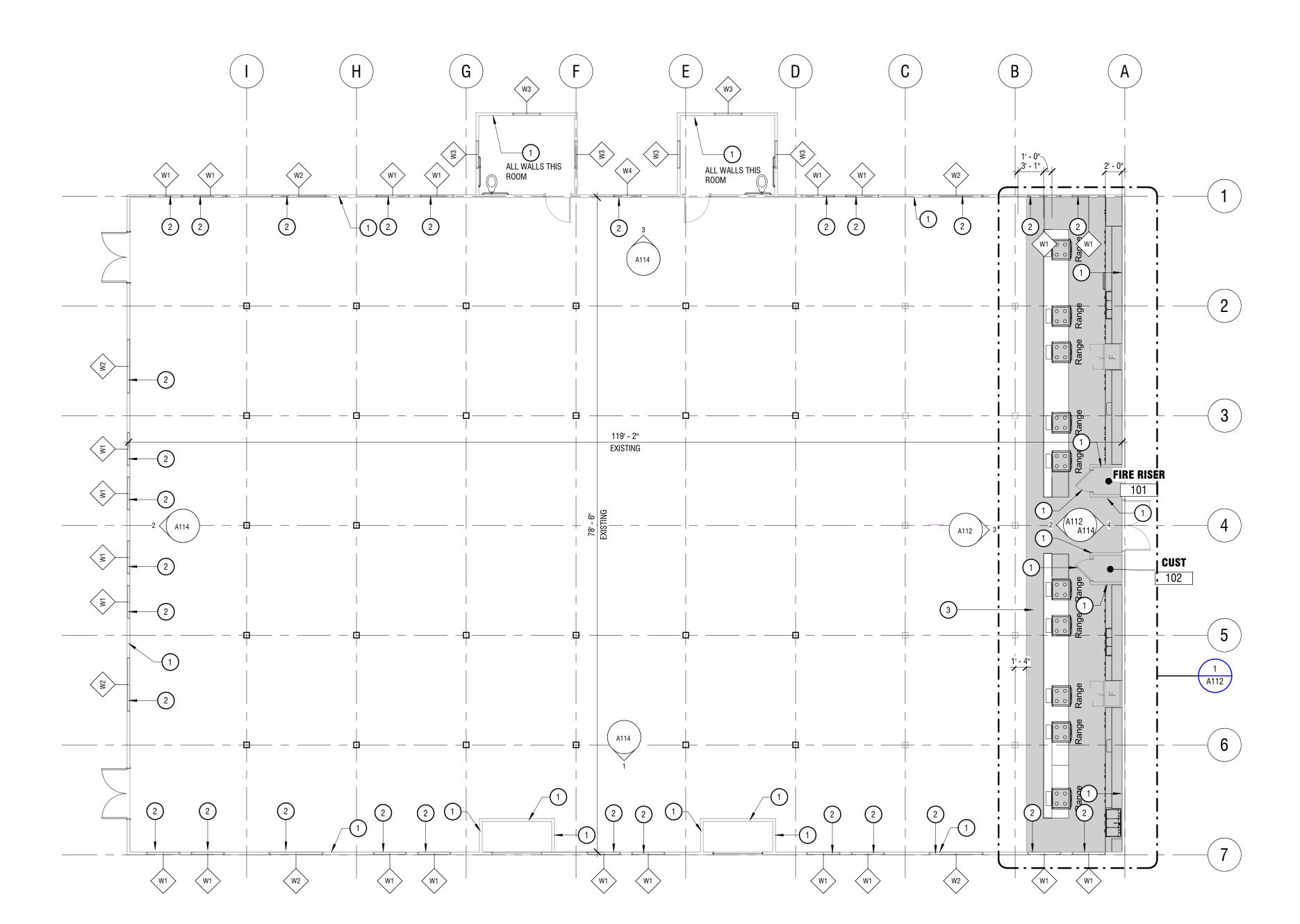
DFCM

Fairpark Zions Test Kitchen

155 1000 WEST SALT LAKE CITY, UTAH 84116

10/31/2024



PROJECT TEAM <u>OWNER</u>

DFCM 4315 SOUTH 2700 WEST FLOOR 3 TAYLORSVILLE, UT 84129-2128 T: 801-538-3018 CONTACT: CHRIS OTTLEY cottley@utah.gov

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T: 801-328-5151 CONTACT: MICHAEL FACKRELL

michael.fackrell@speceng.com

2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2021 INTERNATIONAL MECHANICAL CODE (IMC INTERNATIONAL MECHANICAL CODE (IMC) NATIONAL ELECTRICAL CODE (NEC)
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) INTERNATIONAL FIRE CODE (IFC) PROJECT DESCRIPTION

DEMONSTRATION KITCHEN REMODEL PROJECT AREA:

PROJECT INFORMATION

USE AND OCCUPANCY CLASSIFICATION (IBC CHAPTER 3)

GROUP(S): ASSEMBLY - A3

FIRE RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC CHAPTER 6) STRUCTURAL FRAME: BEARING WALLS EXTERIOR: BEARING WALLS INTERIOR: NONBEARING WALLS INTERIOR: FLOOR CONSTRUCTION: ROOF CONSTRUCTION:

FIRE-RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: FIRE PROTECTION SYSTEMS (IBC CHAPTER 9) NOT PROVIDED AUTOMATIC SPRINKLER SYSTEM:

DRAWING INDEX

GENERAL

G001 PROJECT INFORMATION SHEET G002 GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS

AD101 LEVEL 1 DEMO FLOOR PLAN / ELEVATION

ARCHITECTURAL

A112 FLOOR PLAN A114 LEVEL 1 FLOOR PLAN AND INTERIOR ELEVATIONS

A541 INTERIOR DETAILS A621 WINDOW SCHEDULE

MECHANICAL / PLUMBING

M001 MECHANICAL GENERAL NOTES & LEGEND MP101 MECHANICAL EQUIPMENT SPECIFICATIONS

P001 PLUMBING GENERAL NOTES & LEGEND

P101 PLUMBING SCHEDULE & DETAILS

ELECTRICAL

EE001 ELECTRICAL COVER SHEET EE501 ELECTRICAL DETAILS EE701 TYPICAL MOUNTING DETAILS EP101 LEVEL 1 POWER PLAN EP601 ELECTRICAL SCHEDULES

EP602 ELECTRICAL SCHEDULES

Fairpark Zions Test Kitchen

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Salt Lake City

52 Exchange Place

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800 W Main Street, Suite 940

Boise, ID 83702

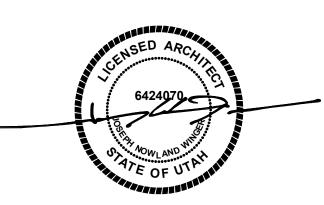
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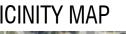


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Thomas W Peterson

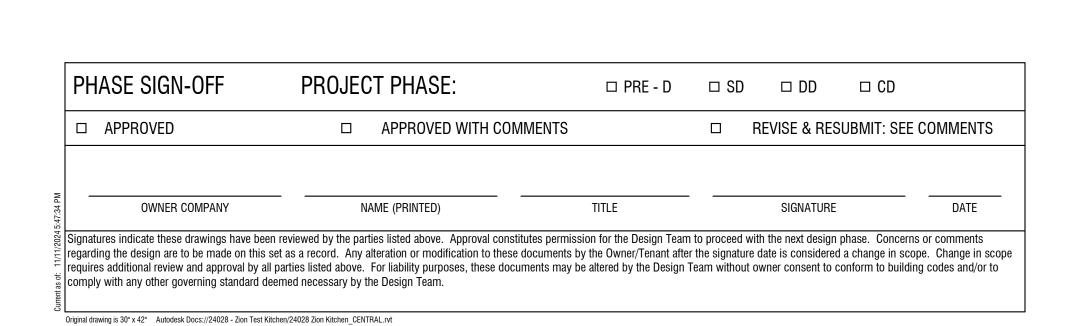
PROJECT **INFORMATION SHEET**

SHEET NOTES NOTE: THESE NOTES APPLY TO THIS SHEET ONLY. 1 NEW WALL PAINT, DOOR AND WINDOW TRIM PAINT, (2) COLORS AS SELECTED BY PROJECT TEAM DURING SUBMITTAL PROCESS. . 2 NEW MOTORIZED WINDOW SHADE - SEE WINDOW SCHEDULE FOR SIZE 3 GREY SHADED AREA REPRESENTS A FOOD GRADE EPOXY FLOORING WITH 3/4" RADIUS



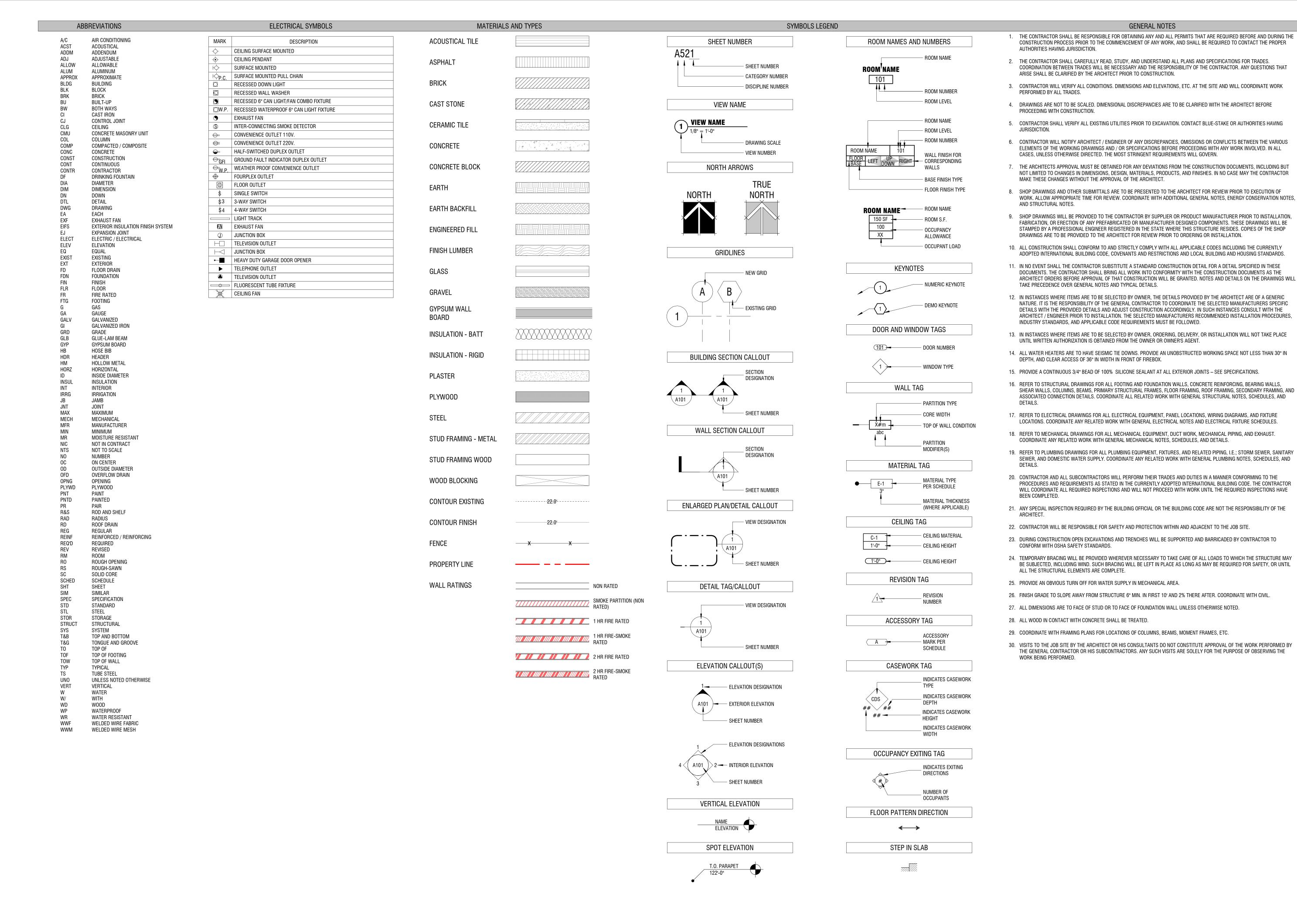
COVED BASE SEE DETAIL 4/A112





1 TEST KITCHEN - FLOOR PLAN

1/8" = 1'-0"



Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt



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Consultant

Fairpark Zions Test Kitchen

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Project Number DFCM #: 25266370 Original Issue Project Status PERMIT SET

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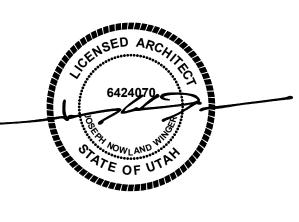
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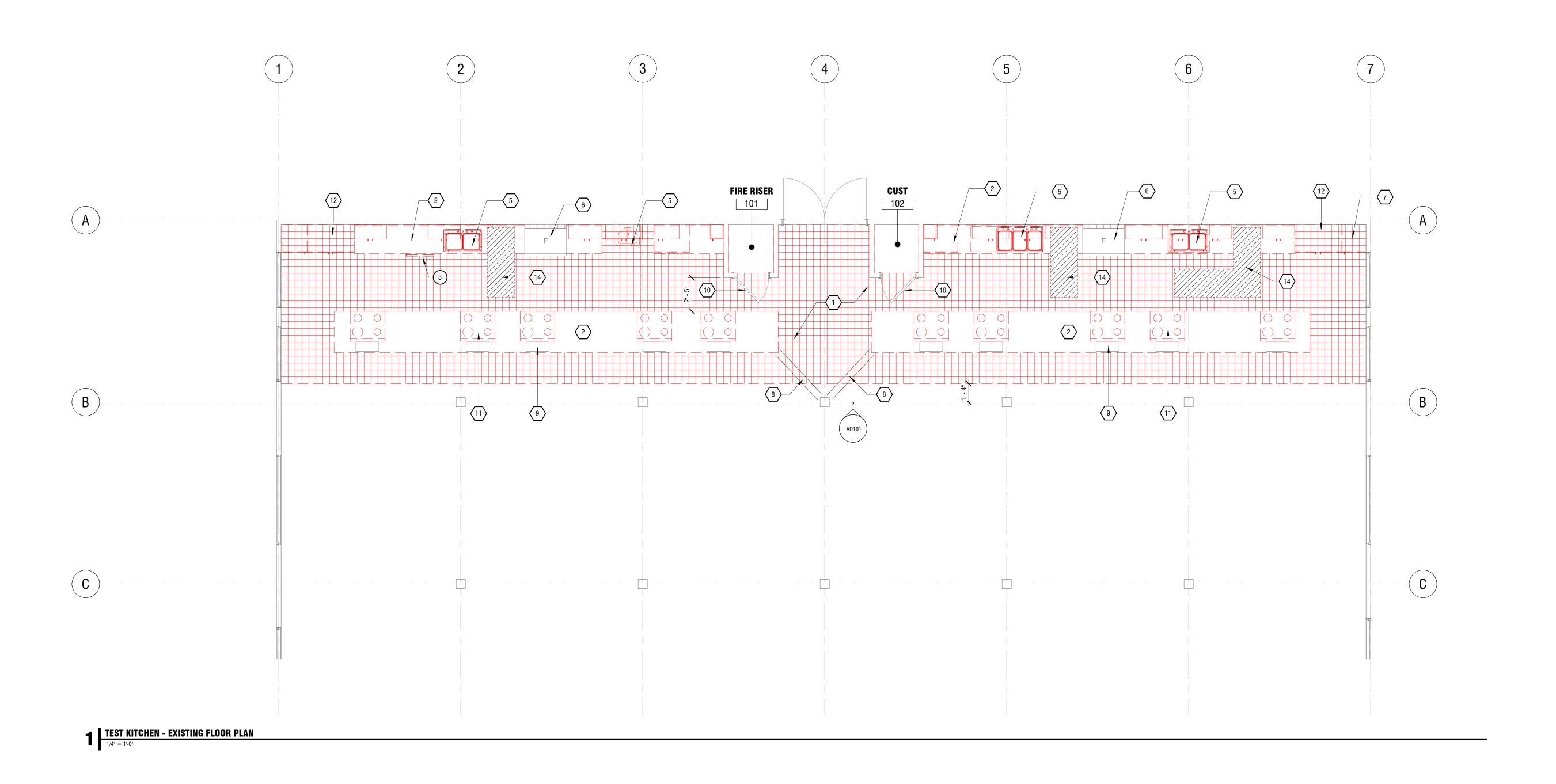
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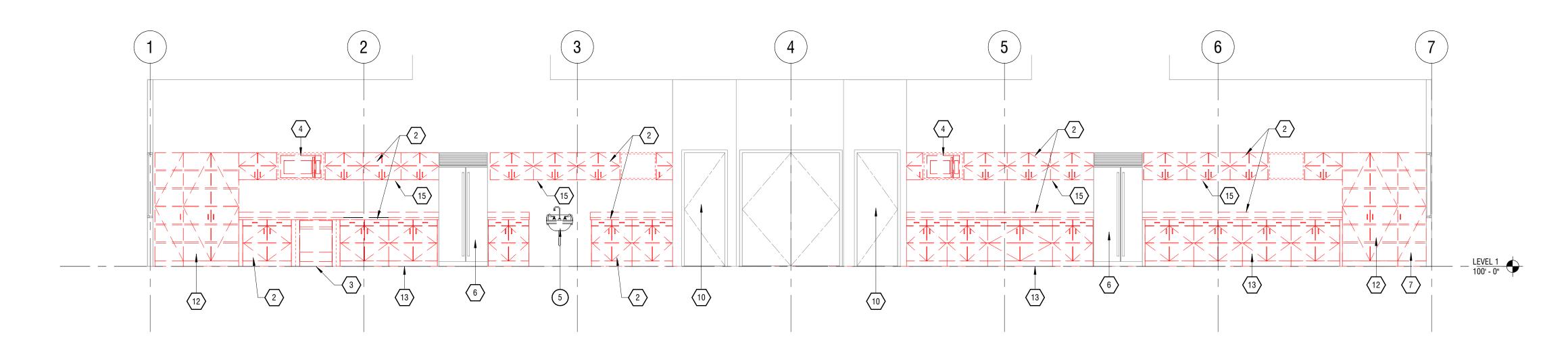
12/05/2024



Sheet Title GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS

G002





NORTH ELEVATION - EXISTING

1/4" = 1'-0"

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt

DEMOLITION GENERAL NOTES

- 1. IDENTIFY AND FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE SCOPE OF PROJECT W/ ARCHITECT PRIOR TO STARTING ANY WORK. STOP WORK AND CONTACT ARCHITECT IMMEDIATELY IF HIDDEN OR UNKNOWN ELEMENTS AND CONCERNS ARE REVEALED OR EXPOSED DURING DEMOLITION.
- 2. COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS, REQUIREMENTS, AND NOTES. PROVIDE PROPER BRACING AND SUPPORT OF EXISTING STRUCTURE WHERE REQUIRED.
- 3. DEMOLITION PLANS ARE PROVIDED TO INDICATE A GENERAL SCOPE ONLY. ITEMS TO BE REMOVED ARE INDICATED ON DEMOLITION PLANS WITH A DOTTED OR BROKEN LINE INCLUDING BUT NOT LIMITED TO INTERIOR PARTITIONS, CEILINGS, DOORS AND FRAMES, EQUIPMENT, ELEMENTS, COMPONENTS, CABINETRY AND ACCESSORIES, ETC. THE CROSS HATCH IS INTENDED TO INDICATE THE REMOVAL OF EXISTING SLAB TO BE REMOVED IN PREP FOR NEW PLUMBING LINES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DEMOLITION WITH THE REQUIREMENTS OF ALL PORTIONS OF THE CONSTRUCTION DOCUMENTS AND SHALL PERFORM DEMOLITION AS SHOWN AND/OR NECESSARY TO COMPLETE THE REQUIRED RENOVATION AND NEW CONSTRUCTION. THE ABSENCE ON THE DEMOLITION PLANS OF ITEMS NOTED OR INDICATED DOES NOT RELIEVE THE GENERAL CONTRACTOR OF THE RESPONSIBILITY TO DEMOLISH THESE ITEMS, IF NECESSARY, TO COMPLETE NEW WORK. COORDINATE W/ ARCHITECT AS REQ.
- 5. COORDINATE DEMOLITION WITH ORIGINAL STRUCTURAL DRAWINGS TO MAINTAIN STRUCTURAL INTEGRITY OF BUILDING. BRING ANY CONFLICT TO THE ATTENTION OF ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONTINUATION OF WORK.
- 6. GENERAL SCOPE OF DEMOLITION WORK REQUIRED MUST BE COORDINATED WITH THE NEW CONSTRUCTION DRAWINGS.
- 7. CONTRACTOR TO VERIFY THE CONDITION OF ITEMS SHOWN ON THE DRAWINGS TO BE REUSED AND/OR RELOCATED AND REPAIR TO "LIKE-NEW" CONDITION AS NECESSARY. THESE ITEMS SHALL BE PROTECTED FROM DAMAGE, THEFT, AND/OR ABUSE BY THE

CONTRACTOR, SALVAGED ITEMS THAT ARE REFINISHED AND REINSTALLED IN THEIR

- NEW LOCATION SHALL BE PROTECTED FROM WORK ONGOING IN ADJACENT AREAS. 8. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES TO BE REMOVED,
- 9. THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR THE EXECUTION OF THE WORK SHALL BE PAID BY THE CONTRACTOR.

RELOCATED OR ABANDONED PRIOR TO COMMENCING DEMOLITION ACTIVITIES.

- 10. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS OTHERWISE SHOWN.
- 11. WHERE ELECTRICAL NEEDS TO BE ABANDONED, REMOVE WIRE FROM OUTLET ALL THE WAY BACK TO THE ELECTRICAL PANEL / SOURCE. ALL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN.
- 12. REMOVE ALL WATER LINES BACK TO POINT OF ENTRY (CAREFULLY VERIFY IF ANY LINES CAN BE RE-UTILIZED AS PART OF NEW BUILD OUT). MAKE SURE ALL WATER HAS BEEN TURNED OFF PRIOR TO WORK. ALL WORK SHALL BE DONE BY A LICENSED
- 13. DEMO TO BASE SUBSTRATE. PROTECT FINISHES NOT INVOLVED IN DEMOLITION. PATCH AND REPAIR ALL EXISTING FINISHES OF WALLS, CEILINGS, FLOORS, OR SURFACES THAT ARE EXPOSED OR DAMAGED DURING DEMOLITION. MATCH EXISTING AND/OR PROVIDE NEW FINISHES AS REQUIRED.

SHEET NOTES NOTE: THESE NOTES APPLY TO THIS SHEET ONLY.

1 DEMO ALL TILE FLOORING. PATCH AND PREP CONCRETE FOR EPOXY FLOOR AND INTEGRAL

6 REMOVE, PROTECT AND STORE THE EXISTING REFRIGERATORS FOR REUSE IN THE FINAL

7 REMOVE EXISTING HOSE BIBB, CUT AND CAP FLUSH WITH FLOOR. CHIP OUT CONCRETE AS

9 REMOVE STORE AND REFINISH THE EXISTING VENT COVERS. POWDER COAT AND REUSE IN

10 REMOVE BLACK 'CHALK BOARD FILM OFF THE DOOR SURFACE, PREP DOOR FOR NEW PAINT 11 REMOVE RANGES DISCONNECT GAS AND REMOVE EXISTING REGULATOR TYPICAL OF 10

13 REMOVE THE EXISTING WATER HEATER AND ASSOCIATED PIPING AND ELECTRICAL

14 REMOVE EXISTING CONCRETE FLOOR, EXPOSE EXISTING WASTE LINE IN PREPARATION OF

15 REMOVE UNDER CABINET LIGHT FIXTURES, PROTECT, SAVE AND RETURN THE TO OWNER.

Approval Stamp

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REVIEWED FOR CODE COMPLIANCE Thomas W Peterson

12/05/2024

8 REMOVE, STORE AND RE-POLISH THE EXISTING FLOOR COVER PLATES. TO BE REUSED IN THE NEW DESIGN. INSTALLATION TO BE INSTALLED FLUSH WITH NEW EPOXY FLOOR SYSTEM.

5 REMOVE EXISTING PLUMBING FIXTURES, COORDINATE WITH MECHANICAL

NEEDED, PATCH AND REPAIR. COVER WITH NEW EPOXY FLOOR SYSTEM

2 REMOVE EXISTING CASEWORK AND COUNTERTOP

4 REMOVE MICROWAVE, KEEP FOR REUSE.

NON-TRIP INSTALLATION REQUIRED.

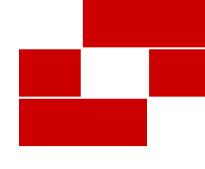
THE NEW DESIGN. TYPICAL OF 10.

NEW GREASE TRAP INSTALLATION

12 REMOVE FULL HEIGHT CASE WORK SHELVING CABINET

3 REMOVE DISHWASHER.

CONNECTIONS



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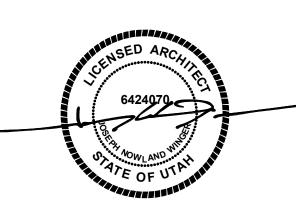
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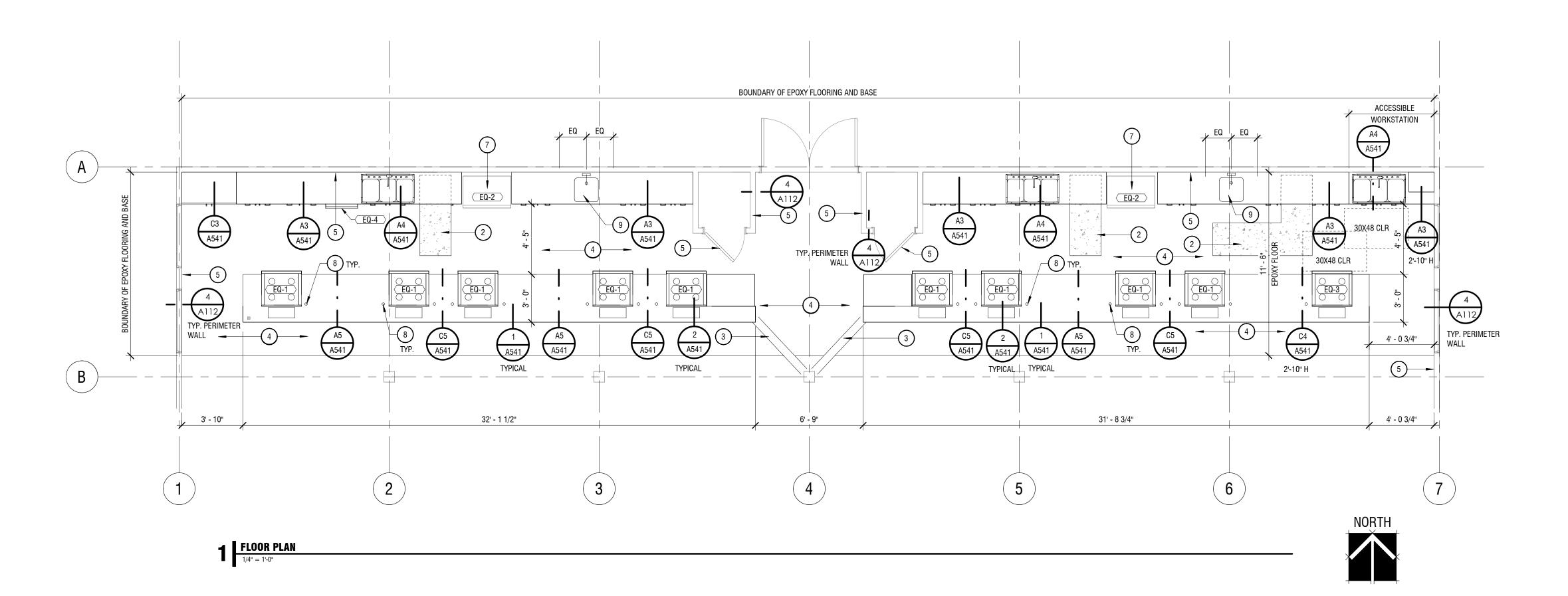
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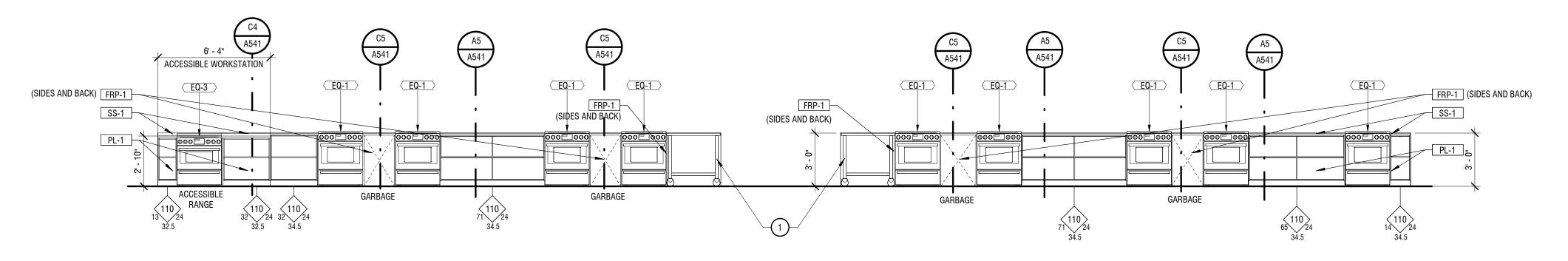


LEVEL 1 DEMO FLOOR PLAN / ELEVATION

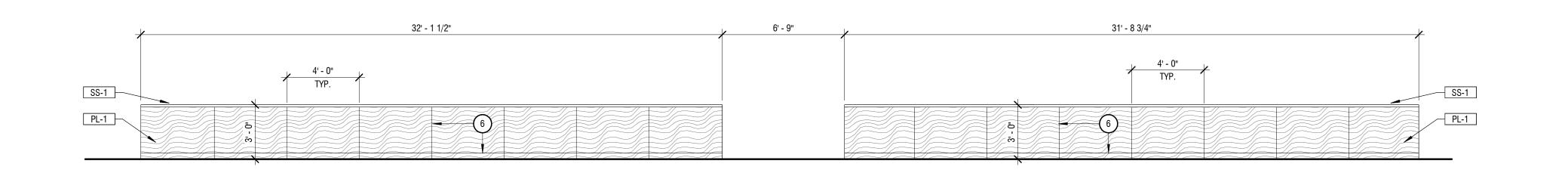
AD101





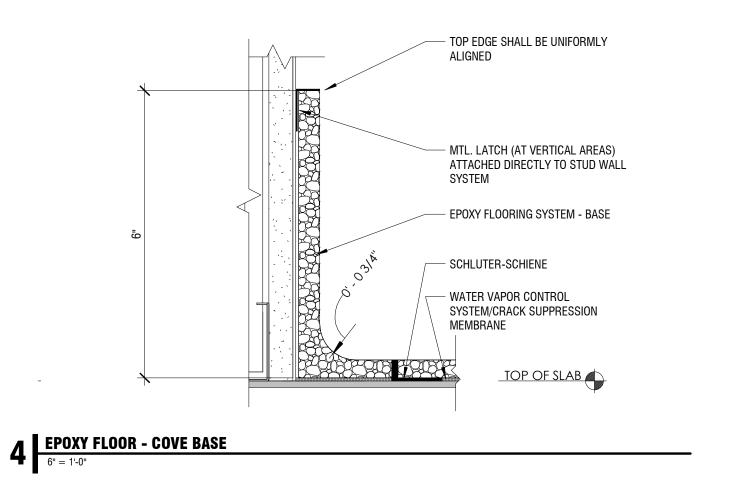


2 ISLAND ELEVATION - SOUTH 1/4" = 1'-0"



3 ISLAND ELEVATION - NORTH

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt



FLOOR PLAN / INTERIOR ELEVATION GENERAL NOTES

- 1. REFER TO THE MATERIAL AND FINISH SCHEDULES ON SHEET A641 FOR FURTHER INFORMATION.
- 2. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES. CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.

WITH CONSTRUCTION.

- INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.

 3. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION BEFORE PROCEEDING
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- 5. UNLESS NOTED OTHERWISE CLEAR DIMENSIONS INDICATE DIMENSION BETWEEN
- FINISHES.

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- 7. THE ARCHITECT'S APPROVAL MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CHANGES IN DIMENSIONS, DESIGN, MATERIALS, PRODUCTS, AND FINISHES. IN NO CASE MAY THE

CONTRACTOR MAKE THESE CHANGES WITHOUT THE APPROVAL OF THE ARCHITECT.

- 8. SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR
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- 11. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER, DATA, AND OTHER SYSTEM LOCATIONS AND REQUIREMENTS.

SHEET NOTES NOTE: THESE NOTES APPLY TO THIS SHEET ONLY.

- 1 STAINLESS STEEL TABLE ON CASTERS
- 2 NEW CONCRETE SLAB OVER GRAVEL BASE AT PLUMBING PIPING CONNECTIONS FOR THE GREASE TRAP PIPING. FIELD VERIFY EXTENT OF TRENCHING NEEDED TO TIE INTO THE
- EXISTING SEWER LINE.

 3 REMOVE, STORE AND RE-POLISH THE EXISTING FLOOR COVER PLATES. TO BE REUSED IN THE NEW DESIGN. INSTALLATION TO BE INSTALLED FLUSH WITH NEW EPOXY FLOOR SYSTEM.
- NON-TRIP INSTALLATION REQUIRED.

 4 COMMERCIAL KITCHEN GRADE EPOXY FLOORING WITH 3/4" RADIUS COVED WALL BASE. SEE
- DETAIL 4/A112
 5 NEW WALL PAINT, DOOR AND WINDOW TRIM PAINT, (2) COLORS AS SELECTED BY PROJECT
- TEAM DURING SUBMITTAL PROCESS. .
- 6 SYSTEM 310 1/16" HORIZONTAL AND VERTICAL PANEL REVEAL BLACK 4'-0" O.C. BASIS OF DESIGN: BY PANEL SYSTEM SPECIALIST
- 7 REFRIGERATOR EXISTING TO REMAIN8 2" STAINLESS COUNTERTOP GROMMET.
- 9 NEW STAINLESS STEEL HAND WASH SINK SEE MECHANICAL DRAWINGS FOR MODEL

ACCESSORY SCHEDULE

XXXXX DESCRIPTION

- EQ-1 GAS RANGE- GE 5 BURNER GAS CONVECTION RIANGE #GGS600AVFS
 EQ-2 REFRIGERATOR EXISTING TO REMAIN
- EQ-3 GAS RANGE- GE 30" SLIDE IN FRONT CONVECTION RIANGE- ADA MODEL-GGS600AVFS

 EQ-4 GE PROFILE ENERGY STAR SMART ULTRAFRESH MODEL PDT75SYVFS

FLOOR FINISH PLAN LEGEND



LOCATIONS WHERE THE EXSTING
FLOOR WILL NEED TO BE REPLACED
TO ACCOMMODATE THE NEW
PLUMBING LINES.

Revis

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Fairpark Zions Test

DFCM

Kitchen

155 1000 WEST

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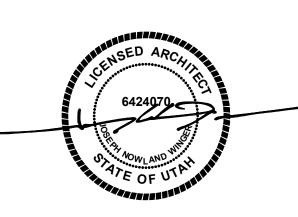
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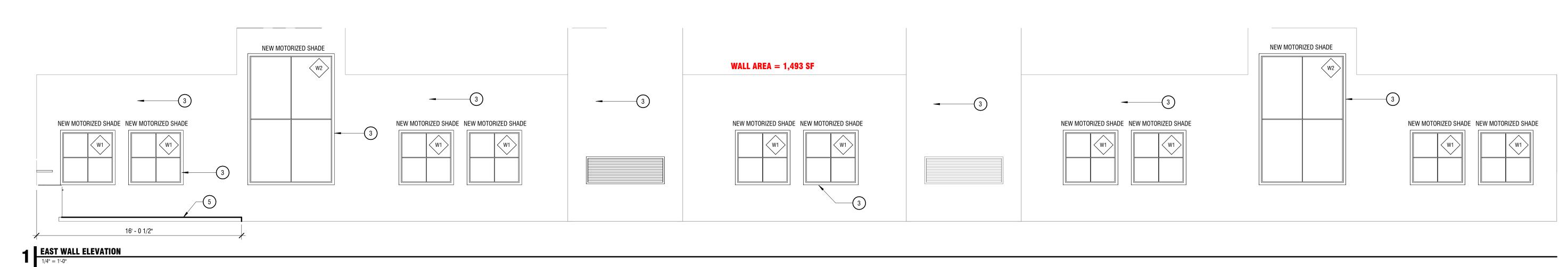


heet Title

FLOOR PLAN

A112





NEW MOTORIZED SHADE

3

2 SOUTH WALL ELEVATION

1/4" = 1'-0"

WALL AREA = 964 SF

NEW MOTORIZED SHADE NEW MOTORIZED SHADE

NEW MOTORIZED SHADE NEW MOTORIZED SHADE

FLOOR PLAN / INTERIOR ELEVATION GENERAL NOTES

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WITH CONSTRUCTION.

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- 11. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER, DATA, AND OTHER SYSTEM LOCATIONS AND REQUIREMENTS.

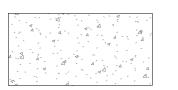


- 1 SINK, COORDINATE WITH MECHANICAL
- NEW STAINLESS STEEL HAND WASH SINK SEE MECHANICAL DRAWINGS FOR MODEL
 NEW WALL PAINT, DOOR AND WINDOW TRIM PAINT, (2) COLORS AS SELECTED BY PROJECT
- TEAM DURING SUBMITTAL PROCESS.

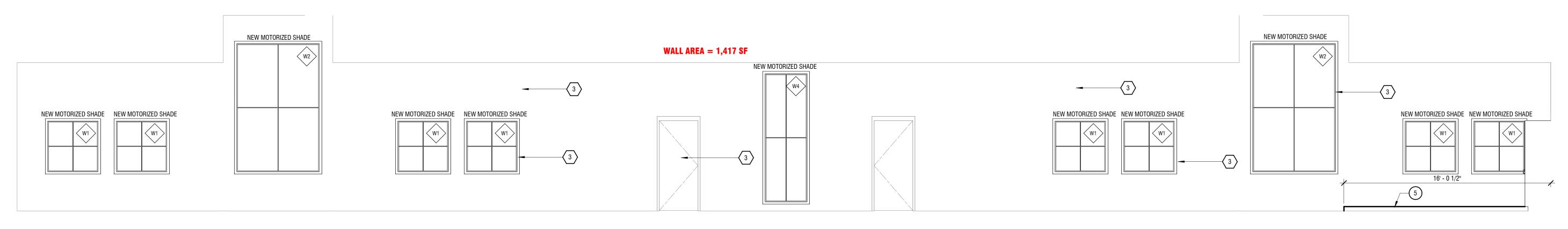
 4 UNDER COUNTER GREASE TRAP PLUMBER TO PROVIDE SHOP DRAWINGS OF BEST WAY TO
- PLUMB TO THE SINK
 5 COMMERCIAL KITCHEN GRADE EPOXY FLOORING WITH 3/4" RADIUS COVED WALL BASE. SEE
 DETAIL 4/A112

	ACCESSORY SCHEDULE		
	XXXXX		
MARK	DESCRIPTION		
EQ-1	GAS RANGE- GE 5 BURNER GAS CONVECTION RIANGE #GGS600AVFS		
EQ-2	REFRIGERATOR - EXISTING TO REMAIN		
EQ-3	GAS RANGE- GE 30" SLIDE IN FRONT CONVECTION RIANGE- ADA MODEL-GGS600AVFS		
EQ-4	GE PROFILE ENERGY STAR SMART ULTRAFRESH MODEL - PDT75SYVFS		

FLOOR FINISH PLAN LEGEND

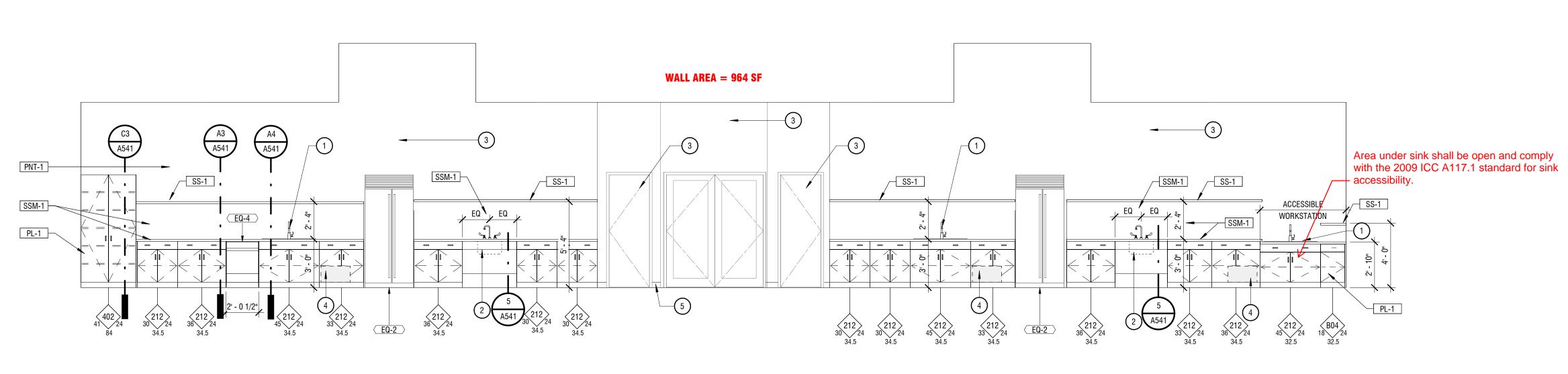


SC-1 - FOOD GRADE EPOXY FLOORING WITH INTEGRATED WALL BASE



WEST WALL ELEVATION

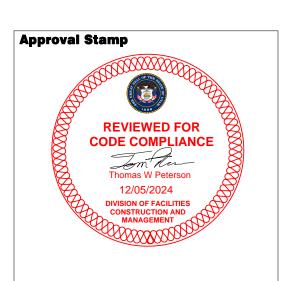
1/4" = 1'-0"



NEW MOTORIZED SHADE

NORTH WALL ELEVATION

1/4" = 1'-0"



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Revisio

Revisions

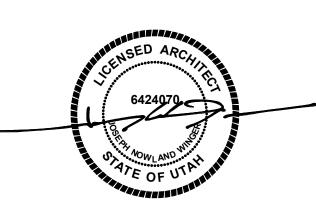
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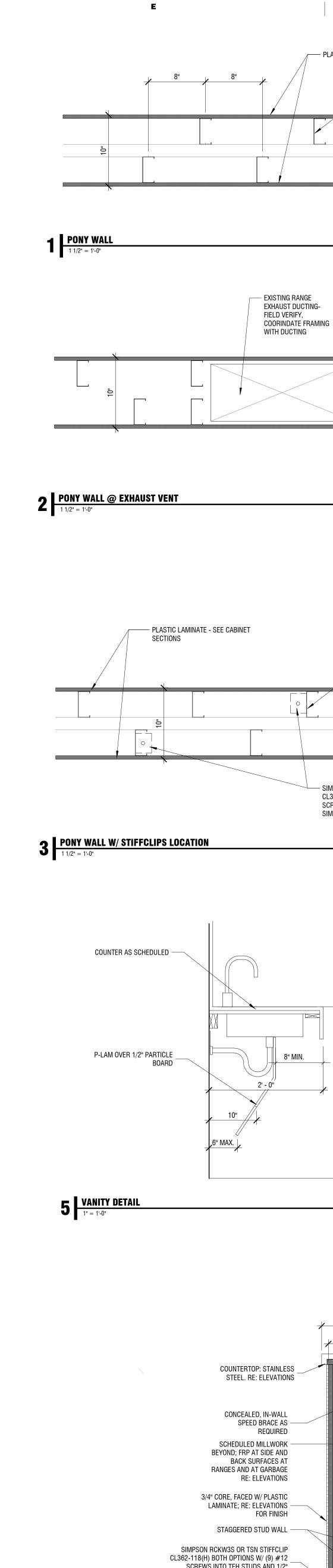


LEVEL 1 FLOOR PLAN AND INTERIOR

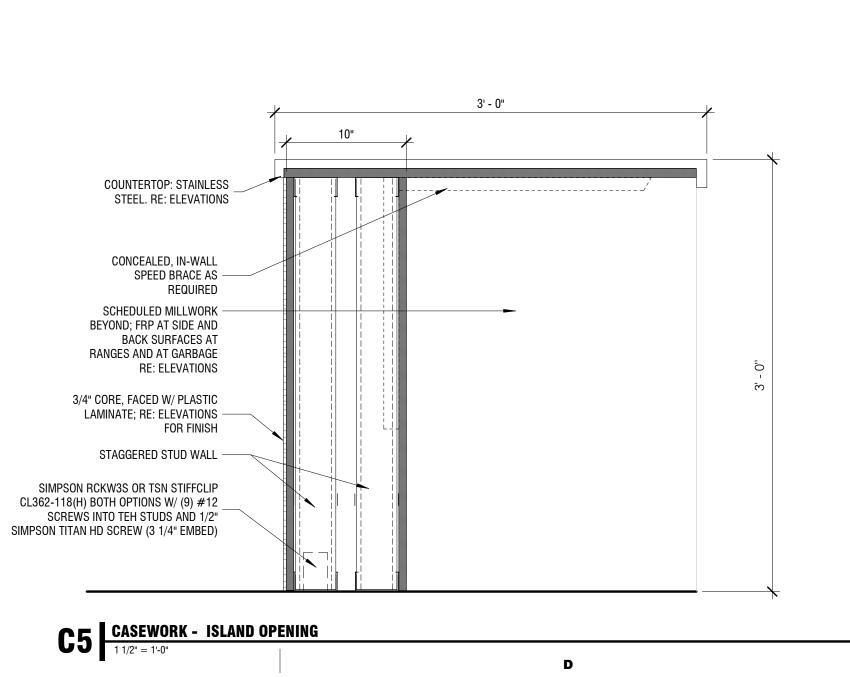
ELEVATIONS

A 1 1 Δ

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt



Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt



PLASTIC LAMINATE - SEE CABINET SECTIONS

√ 3 5/8" METAL STUDS -

3 5/8" METAL STUDS -

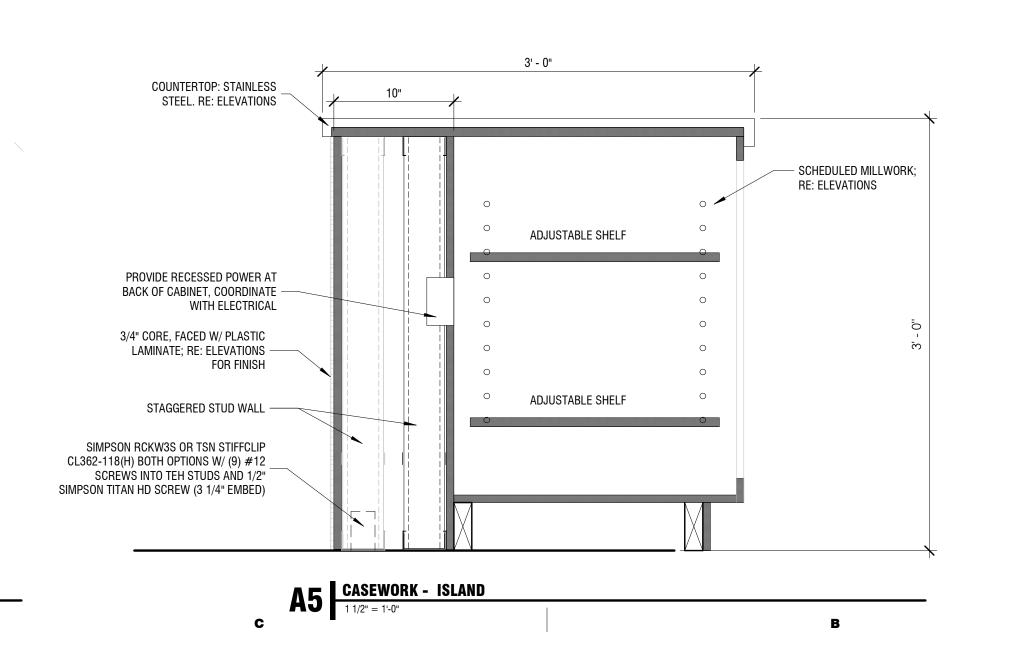
STAGGERED

— SIMPSON RCKW3S OR TSN STIFFCLIP CL362-118(H) BOTH OPTIONS W/ (9) #12 SCREWS INTO TEH STUDS AND 1/2" SIMPSON TITAN HD SCREW (3 1/4" EMBED)

PLASTIC LAMINATE - SEE CABINET SECTIONS

3 5/8" METAL STUDS -

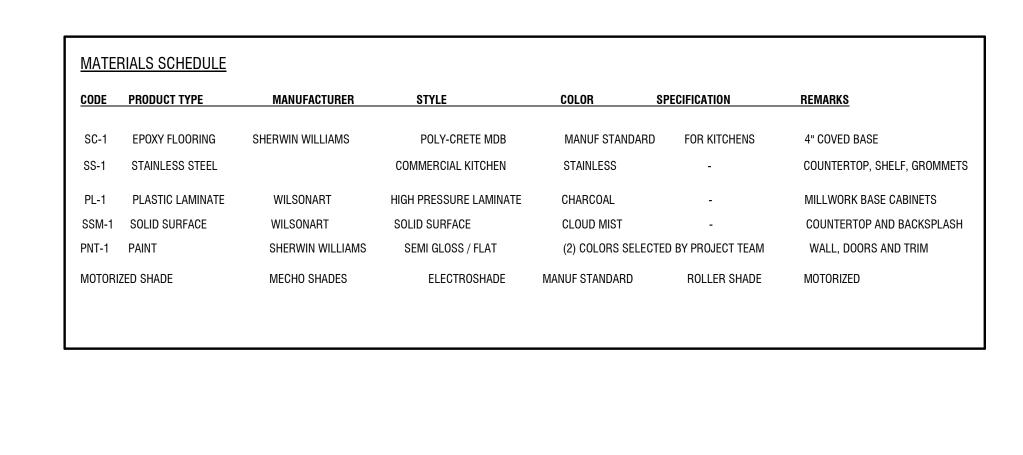
STAGGERED

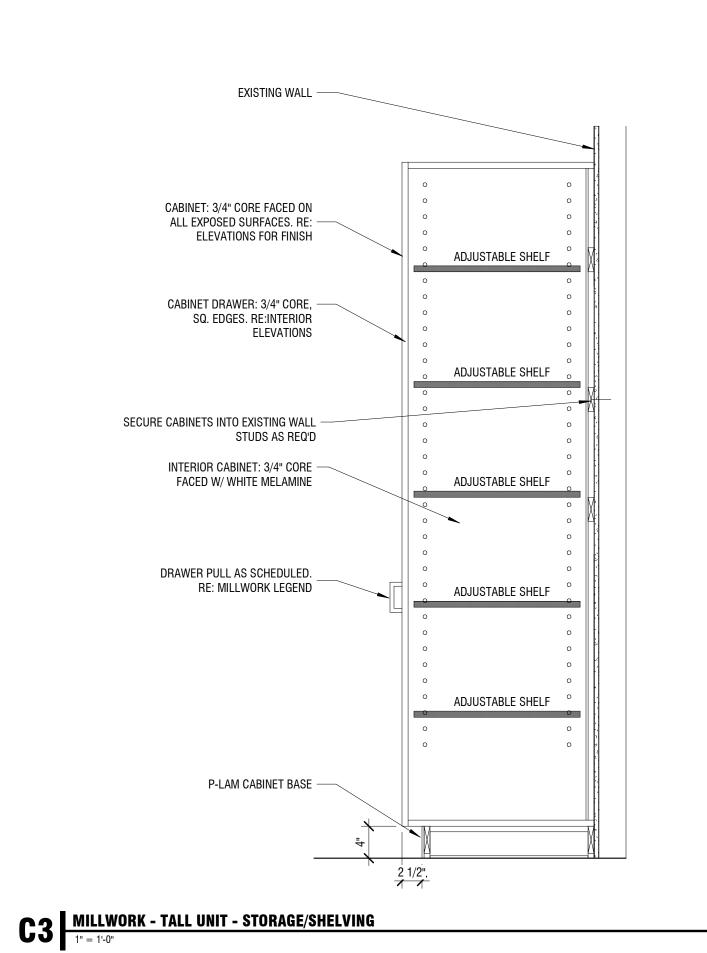


ADJUSTABLE SHELF

ADJUSTABLE SHELF

— SCHEDULED MILLWORK; RE: ELEVATIONS





COUNTERTOP: STAINLESS _ STEEL RE: ELEVATIONS

PROVIDE RECESSED POWER AT

BACK OF CABINET, COORDINATE -

3/4" CORE, FACED W/ PLASTIC

SIMPSON RCKW3S OR TSN STIFFCLIP CL362-118(H) BOTH OPTIONS W/ (9) #12 _

SCREWS INTO TEH STUDS AND 1/2" SIMPSON TITAN HD SCREW (3 1/4" EMBED)

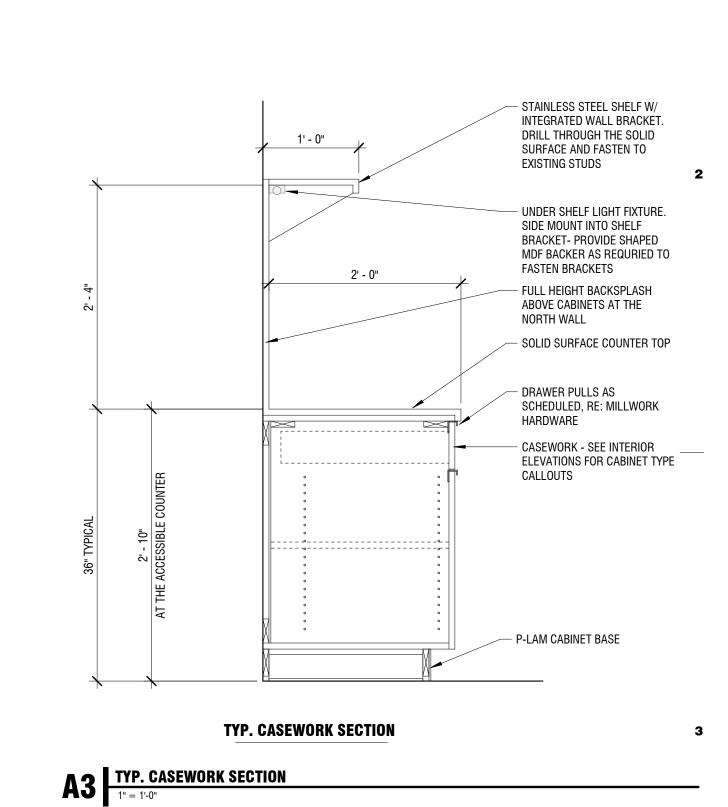
LAMINATE; RE: ELEVATIONS -

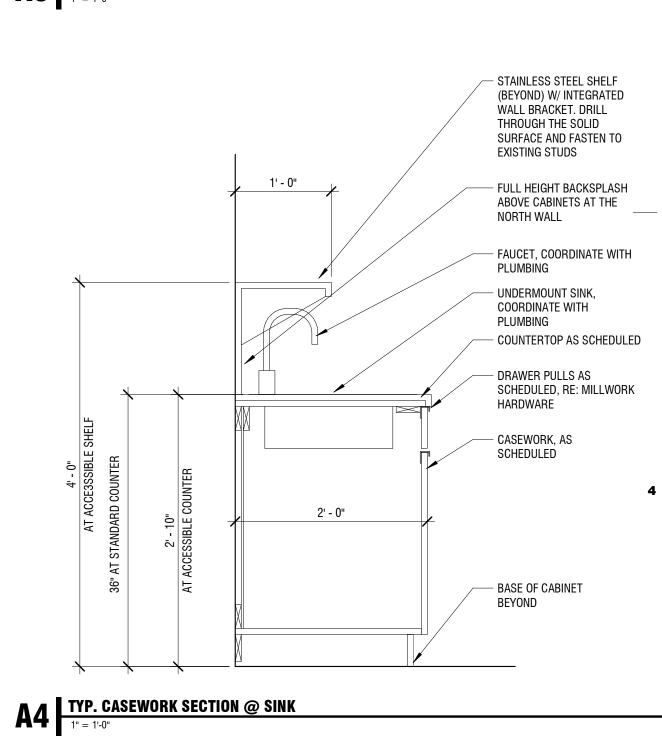
STAGGERED STUD WALL —

C4 CASEWORK - ISLAND ADA

WITH ELECTRICAL

FOR FINISH



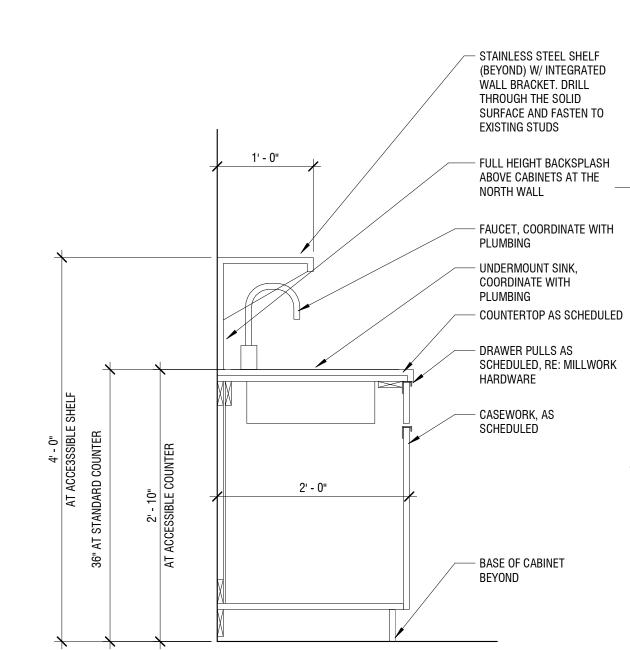


Approval Stamp

REVIEWED FOR

CODE COMPLIANCE

Thomas W Peterson 12/05/2024





10/31/2024

Original Issue

Project Status PERMIT SET

Babcock Design

Salt Lake City

52 Exchange Place

Salt Lake City, UT 84111

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babcock**design**.com

Fairpark Zions Test

Kitchen

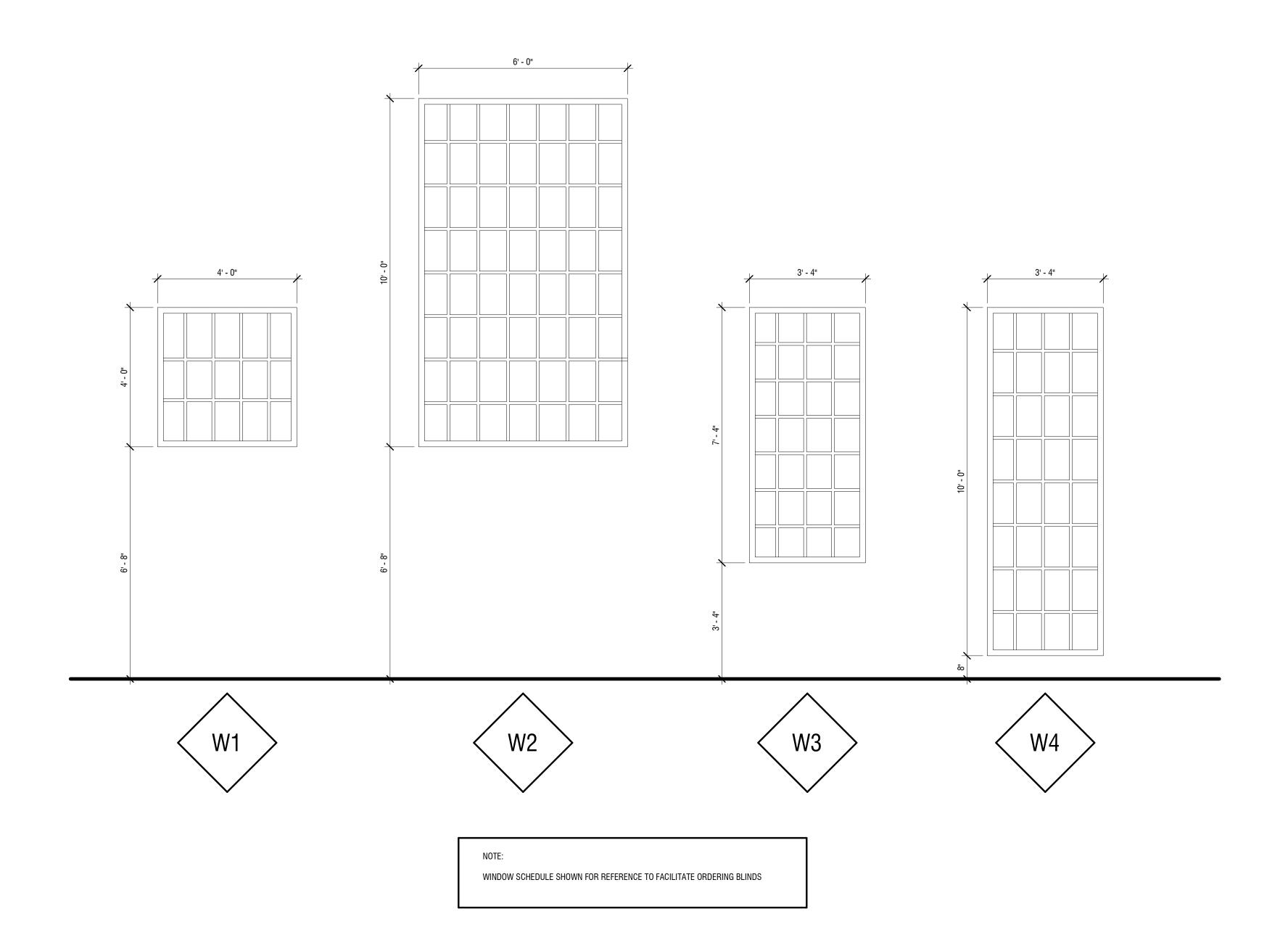
155 1000 WEST

SALT LAKE CITY, UTAH 84116

INTERIOR DETAILS

WINDOW & FRAME TYPE - GRAPHICAL SCHEDULE

NOTE: SEE DOOR SCHEDULE AND DOOR TAGS TO MATCH APPROPRIATE FRAME TYPE WITH DOOR TYPES.



Babcock Design

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Boise 800 W Main Street, Suite 940 Boise, ID 83702 208.424.7675

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DFCM

Fairpark Zions Test Kitchen

155 1000 WEST SALT LAKE CITY, UTAH 84116

Revisions

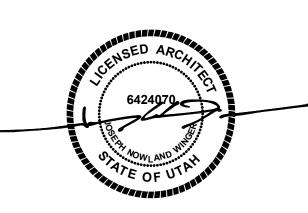
n. Description

Project Number DFCM #: 25266370
Original Issue 10/31/2024

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Sheet Title

WINDOW SCHEDULE

et Number

REVIEWED FOR CODE COMPLIANCE
Thomas W Peterson
12/05/2024
DIVISION OF FACILITIES
CONSTRUCTION AND
MANAGEMENT

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/24028 Zion Kitchen_CENTRAL.rvt

	SY	MBOL	LEG	SEND		
;	SYMBOL	DESCRIPTION	١			
HVAC	PIPING					
	HWS	HOT WATER	SUPPLY			
	HWR	HOT WATER	RETURN			
		TEMPERED V	VATER SUP	PLY		
	CWS	CHILLED WAT	TER SUPPL	Y		
	CWR	CHILLED WAT	CHILLED WATER RETURN			
	—RL———	REFRIGERAN	IT LIQUID			
_	RS	REFRIGERAN	IT SUCTION	I		
	-CDWS	CONDENSER	WATER SU	JPPLY		
	-CDWR	CONDENSER	WATER RE	ETURN		
		DRAIN LINE				
	— (E) ———	EXISTING PIP	PE			
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	(E) :////////////////////////////////////	EXISTING PIF	E TO BE R	EMOVED		
	AB	BREV	ΊΑΤΙ	ONS		
	NOTE: A	LL ABBREVIATI	IONS MAY N	NOT BE USED		
AIR COND BD BTU H CCF CCO CV DD DD B EFF EGELEV EVAT FF FC FD A FF FS FS FS FT	AIR CONDITION AIR PRESSURE BALANCING DAI BRAKE HORSE I BRITISH THERM BTU/HOUR CUBIC FEET PE COOLING COMPONENT CONDENS(-ER, CONTROL VALV COLD WATER DIAMETER DISCHARGE DEPTH OR DEEI DRY BULB TEMF EXISTING ENERGY EFFICI EFFICIENCY ETHYLENE GLY ELECTRIC ELEVATION ENTERING EVAPORAT(-E, - ENTERING WAT EXTERNAL FUTURE FAHRENHEIT FLEXIBLE CONN FIRE DAMPER FULL LOAD AMF FINS PER INCH FEET PER MINU FEET PER SECC FIRE SMOKE DA FEET	DROP MPER POWER AL UNIT R HOUR R MINUTE ING, -ATION) E PERATURE ENCY RATIO COL ING, -ED, -OR) ER TEMP IECTION PS TE DND	MFR MIN N/A NC NC NIC NO NPSH NTS OA OD OZ PD PG PH PPM PRESS PSF PSI PSIA RECIRC REFR REQD RPM RW SA SC SCW SF SH SL SP SPEC(S) SQ STD	MANUFACTURER MINIMUM NOT APPLICABLE NORMALLY CLOSED NOISE CRITERIA NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEA NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER OUNCE PRESSURE DROP OR DIFF. PROPYLENE GLYCOL PHASE PARTS PER MILLION PRESSURE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI ABSOLUTE PSI GAUGE THERMAL RESISTANCE RETURN AIR RECIRCULATE REFRIGERATION REQUIRED REVOLUTIONS PER MINUTE RAINWATER SUPPLY AIR SHADING COEFFICIENT SOFT COLD WATER SAFETY FACTOR SENSIBLE HEAT SEA LEVEL STATIC PRESSURE SPECIFICATION(S) SQUARE STANDARD		
GAL GPH GPM HD HG HR HT HTG HP HW	GALLON(S) GALLONS PER IN GALLONS PER IN HEAD MERCURY HOUR HEIGHT HEATING HORSE POWER HOT WATER HERTZ(FREQUE	MINUTE	TEMP TSTAT V VAC VAV VEL VENT VFD WC WG	TEMPERATURE THERMOSTAT VOLT VACUUM VARIABLE AIR VOLUME VELOCITY VENT, VENTILATION VARIABLE FREQUENCY DRIV WATER COLUMN WATER GAUGE WATER PRESSURE DROP		

DEFINITIONS

HERTZ(FREQUENCY)

LEAVING AIR TEMPERATURE

LOCKED ROTOR AMPS

LEAVING WATER TEMP

THOUSAND BTU PER HOUR

INSIDE DIAMETER

KILOWATT

POUNDS

LENGTH

LEAVING

LATENT HEAT

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR

SCHEDULES ON THE DRAWINGS OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS

WATER PRESSURE DROP

WET BULB

AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED",

"APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING.

ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS TO MAKE THE ITEM FULLY OPERATIONAL."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY INCLUDING INSTALLATION ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE

EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM

	MBOL LEGEND
SYMBOL	DESCRIPTION
VALVES, METERS,	AND GAUGES
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
\Z	AUTO 2-WAY VALVE
	AUTO 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
Ψ	RELIEF VALVE
—————————————————————————————————————	
	CHAIN OPERATED GATE VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
<u> </u>	SOLENOID VALVE
	SOLENOID VALVE
<u> </u>	ANGLE VALVE
NI a	NEATH DI
	VENTURI
	BALANCING OR PLUG COCK
————	FLOW SETTER
<u></u>	EXPANSION VALVE (REFRIG.)
T	TEMPERATURE SENSOR
*MAV	AAAAHIAI AID VENT
TWAV	MANUAL AIR VENT
	STRAINER
∳ ₁	GAUGE COCK
	FLEXIBLE CONNECTION
φ	PRESSURE GAUGE
П	T NEGOCINE GALGE
Щ	THERMOMETER
	VICTAULIC COUPLING
\longrightarrow	REDUCER CONCENTRIC
	REDUCER ECCENTRIC
	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
	90° ELBOW UP
	90° ELBOW DOWN
<u> </u>	90° TEE UP
	90° TEE DOWN
	UNION
	CAPPED PIPE
X	ANCHOR
	FLOAT AND THERMOSTATIC TRAP
HVAC SYMBOLS	1
(T)	THERMOSTAT
	TEMPERATURE SENSOR
(s)	
H)	HUMIDISTAT
PLUMBING SYMBO	1
C.B.	CATCH BASIN
○ M.H.	MANHOLE
———— W.H.	WALL HYDRANT
Н.В.	HOSE BIBB
— ф	CLEANOUT TO GRADE
—ф	FLOOR CLEANOUT
11	WALL OF EMPORE
	WALL CLEANOUT

SYMBOL LEGEND SYMBOL DESCRIPTION DUCTWORK SINGLE LINE DOUBLE LINE DESCRIPTION RECTANGULAR SUPPLY DUCT UP RECTANGULAR SUPPLY DUCT DOWN RECTANGULAR RETURN RECTANGULAR RETURN DUCT DOWN RECTANGULAR EXHAUST RECTANGULAR EXHAUST DUCT DOWN ROUND DUCT UP ROUND DUCT DOWN ACOUSTICALLY LINED ____ RECTANGULAR DUCT 90° RECTANGULAR ELBOW WITH TURNING VANES 90° RADIUS ELBOW R=1.5 DUCT SIZE OR SHAPE TRANSITION OPPOSED BLADE BALANCING DAMPER (O.B.D.) IN RECT DUCT **BUTTERFLY BALANCING** DAMPER IN ROUND COMBINATION TEE SPLITTER DAMPER SQUARE OR ľĸaí | RECTANGULAR CEILING DIFFUSER ROUND CEILING SIDEWALL REGISTER SUPPLY OR RETURN ROUND FLEXIBLE DUCT RETURN GRILLE EXHAUST GRILLE FIRE/SMOKE DAMPER FIRE DAMPER FLEXIBLE CONNECTION

GENERAL MECHANICAL NOTES

1. ALL CEILING DIFFUSERS SHOWN AS SUCH ARE CD-1, CFM AS NOTED, UNLESS OTHERWISE NOTED.

ALL CEILING RETURN GRILLES SHOWN AS SUCH ARE RG-1 UNLESS OTHERWISE NOTED. PROVIDE SOUND BOOT

3. ALL CEILING EXHAUST GRILLES SHOWN AS SUCH ARE EG-1, CFM AS NOTED. UNLESS OTHERWISE NOTED.

ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF

IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN

ASSEMBLY THEY ARE INSTALLED IN. 10. ALL DUCT AND FLUE PENETRATIONS THRU 1 HOUR ROOF ASSEMBLY TO BE ENCLOSED WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK AT

FIRE RATED EQUAL TO OR GREATER THAN THE RATING OF THE

THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.

BOTTOM OF ROOF TRUSSES TO ROOF DECK.

LABEL TO EACH GAS-FIRED APPLIANCE, STATING THE APPLIANCE HAS BEEN ADJUSTED OR MODIFIED PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AT THE PROJECT ALTITUDE AND WITH THE BTU-CONTENT OF THE AVAILABLE FUEL-GAS.

REFERENCE AND LINE SYMBOLS			
#	DETAIL INDICATOR: # INDICATES DETAIL N SHEET INDICATES DRAWING SHEET WHEF		

# SHEET	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
# SHEET	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
#	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET

# SHEET	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
TYPE CFM SIZE	DIFFUSER/GRILLE INDICATOR.
TVDE	

SIZE	DIFFUSER/GRILLE INDICATOR.
TYPE SIZE	DIFFUSER/GRILLE INDICATOR.
—	NEW CONNECTION POINT TO EXISTING

TEST AND BALANCE NOTES

THE MINIMUM REQUIREMENT FOR TESTING, ADJUSTING, AND BALANCING (TAB) OF THE HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) DISTRIBUTION SYSTEMS SHALL BE AS FOLLOWS.

CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TESTING ADJUSTING AND BALANCING FOR THIS PROJECT

THE MECHANICAL SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED, INCLUDING SUPPLY AIR SYSTEM, RETURN AIR SYSTEM, EXHAUST AIR SYSTEM,

OUTSIDE AIR SYSTEM AND ALL ASSOCIATED EQUIPMENT. CONTRACTOR PERFORMING TESTING ADJUSTING AND BALANCING WORK SHALL

BE EITHER AABC OR NEBB CERTIFIED.

TESTING ADJUSTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE NEBB OR AABC TEST PROCEDURES.

TESTING ADJUSTING AND BALANCING REPORT FORMS SHALL BE STANDARD FORMS FROM EITHER AABC OR NEBB.

CONTRACTOR SHALL VERIFY QUANTITIES AND LOCATIONS OF ALL BALANCING

DEVICES. CONTRACTOR SHALL VERIFY THAT THESE BALANCING DEVICES ARE ACCESSIBLE AND APPROPRIATE FOR BALANCING AND FOR EFFICIENT SYSTEM AND EQUIPMENT OPERATION PRIOR TO COMMENCING WORK.

MECHANICAL AIR AND WATER SYSTEMS SHALL BE ADJUSTED TO WITHIN THE

FOLLOWING TOLERANCES. PLUS 5 TO PLUS 10 PERCENT PLUS 5 TO PLUS 10 PERCENT

EXHAUST FANS: PLUS 5 TO PLUS 10 PERCENT EQUIPMENT WITH FANS: PLUS 5 TO PLUS 10 PERCENT

AIR OUTLETS AND INLETS: ZERO TO MINUS 10 PERCENT DOM. HW FLOW RATES: ZERO TO MINUS 10 PERCENT

FINAL BALANCE REPORT SHALL INCLUDE THE FOLLOWING.

TEST CONDITIONS FOR FANS

AIR CONDITIONING UNIT TEST REPORTS

EXISTING DUCT

DUCT TO BE REMOVED

FAN TEST REPORTS AIR TERMINAL DEVICE REPORTS

OR WITHIN APPROPRIATE ENCLOSURE.

4. DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL

COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS.

ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.

PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN

ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM

ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE

ASBESTOS IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE

PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, HEAT PUMPS, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS. ACCESS PANELS TO BE LISTED AND

1. STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT, UNLESS NOTED OTHERWISE. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHEN HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED; THE ATTACHMENT METHOD MUST DISTRIBUTE

12. THE EQUIPMENT INSTALLER IS TO APPLY AND SIGN A CERTIFICATION

SYMBOL LEGEND

SYMBOL	DESCRIPTION
REFERE	NCE AND LINE SYMBOLS

# SHEET	DETAIL INDICATOR: # INDICATES DETAIL NUMBE SHEET INDICATES DRAWING SHEET WHERE DET SHOWN.		
# SHEET	ELEVATION OR SECTION INDICATOR, EXTERIOR: INDICATES ELEVATION OR SECTION NUMBER, SI INDICATES DRAWING SHEET WHERE ELEVATION SECTION IS SHOWN.		
	ELEVATION OF OFOTION INDICATOR INTERIOR		

•	
# SHEET	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEE INDICATES DRAWING SHEET WHERE ELEVATION OF SECTION IS SHOWN.
TYPE CFM	DIFFUSER/GRILLE INDICATOR.

	DIFFUSER/GRILLE INDICATOR.	REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
		17. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE
]	DIFFUSER/GRILLE INDICATOR.	CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
	NEW CONNECTION POINT TO	18. COORDINATE THE RETURN OF ALL MECHANICAL EQUIPMENT REMOVED DURING

L EQUIPMENT REMOVED DURING DEMOLITION WITH THE OWNER'S REPRESENTATIVE. 19. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE

GENERAL MECHANICAL NOTES

TO BID AND INSTALL A HEATING, AIR CONDITIONING AND VENTILATION SYSTEM

ALL EQUIPMENT, PIPING, DUCTWORK, COMPONENT AND ACCESSORY SIZES.

CAPACITIES, AND TYPES SHOWN IN THESE DRAWINGS AND SPECIFICATIONS

DESIGN AND AS-BUILT DRAWINGS SHOWING ALL EQUIPMENT, COMPONENTS,

PIPING, AND CONTROLS SHALL BE PREPARED TO THE SAME SCALE AS THESE

PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A

COMPLETE, OPERATIONAL HVAC SYSTEM FOR THE ENTIRE PROJECT AS SHOWN

THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE

CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, SCHOOL

DISTRICT, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE

PRIOR TO FABRICATION AND INSTALLATION, COORDINATE THE INSTALLATION OF

PROTECTION PIPING AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO: THE MECHANICAL CONTRACTOR, REFRIGERATION CONTRACTOR, ELECTRICAL

CONTRACTOR, FIRE PROTECTION CONTRACTOR, GENERAL CONTRACTOR, AND

ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY

THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT

OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH

SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON AL

OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW

LOCATIONS FOR HVAC EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND

NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL

INSTALLED. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION

SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

2. 1/8" SCALE SHOP DRAWINGS (SUBMITTED FOR APPROVAL) ARE REQUIRED FOR

. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT

. DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE

APPROPRIATE ALL OF THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS.

. PIPING SCHEMATICS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE PIPING SCHEMATICS INCLUDED WITH THE DRAWINGS FOR PIPING CONNECTIONS TO ALL

KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE

MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE

MECHANICAL EQUIPMENT. THE PIPING SCHEMATICS SHOW DETAILED

CONNECTIONS INCLUDING NECESSARY VALVES, FITTINGS, PRESSURE AND

THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A

PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING

TEMPERATURE GAUGES, ETC., THAT ARE NOT SHOWN ON THE PIPING PLANS.

DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR

EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE

ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED

THAT RESULT FROM LACK OF COORDINATION BY THE CONTRACTORS DURING THE

OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL,

AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR

MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING ENGINEER.

ALL HVAC INFORMATION IS NOT SHOWN ON THE HVAC DRAWINGS. THE

MOST RECENTLY ADOPTED BUILDING CODE, MECHANICAL CODE, PLUMBING

DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND

ALL HVAC PIPING, DUCTWORK, AND EQUIPMENT WITH PLUMBING PIPING,

PLUMBING FOUIPMENT REFRIGERATION TRENCHES AND PIPING FIRE

OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.

MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

ELECTRICAL DRAWINGS.

ALL DUCTWORK AND PIPING SYSTEMS.

RESPONSIBILITY OF THE CONTRACTOR.

AS THOUGH SHOWN AND CALLED OUT IN BOTH.

REQUIREMENTS THAT THE PROJECT OWNER HAS.

THE DIVISION 23 CONTRACTOR SHALL INSTALL A COMPLETE AND FULLY

ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.

DRAWINGS. COPIES SHALL BE PROVIDED TO THE OWNER AND

PER THE DESIGN INTENT SHOWN.

SHALL BE ADHERED TO.

OPERATIONAL SYSTEM.

ARCHITECT/ENGINEER.

ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, DAMPERS, AND OTHER DEVICES AND ACCESSORIES

REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION. . THE DIVISION 23 CONTRACTOR SHALL FURNISH ALL REQUIRED MOTORS. ALL MOTOR STARTING EQUIPMENT, WHEN NOT A PART OF THE EQUIPMENT, WILL BE

FURNISHED BY THE ELECTRICAL CONTRACTOR. 2. EXISTING INTERIOR PIPING, EQUIPMENT, AND DUCTWORK HAS BEEN LOCATED IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND POINTS OF CONNECTION AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PERFORM THE WORK

IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT

REPRESENTATIVE. 3. THE CONTRACTOR IS RESPONSIBLE FOR HVAC EQUIPMENT CHECK-IN,

USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S

SAFEKEEPING, AND DAMAGE.

 DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS. EXCEPT DUCTS AND PIPES SERVING THE ROOM OR IF PROPER ENCLOSURE IS PROVIDED.

25. COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH

ARCHITECTURAL REFLECTED CEILING PLAN. 26. ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE NOTED.

7. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.

8. PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.

9. ENCLOSE ALL DUCT AND FLUE PENETRATIONS THROUGH 1 HOUR ROOF ASSEMBLIES WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK CEILING AT BOTTOM OF ROOF TRUSSES TO ROOF DECK

D. DO NOT USE STEEL ROOF DECK TO SUPPORT LOADS FROM PIPING. DUCTWORK OR EQUIPMENT. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHERE HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED. THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD

GENERAL MECHANICAL NOTES

THESE DRAWINGS AND SPECIFICATIONS ARE FOR THE DIVISION 23 CONTRACTOR | 31. PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE OWNER.

MECHANICAL SHEET INDEX

MECHANICAL GENERAL NOTES & LEGEND

MECHANICAL EQUIPMENT SPECIFICATIONS

PLUMBING GENERAL NOTES & LEGEND

PLUMBING SCHEDULE & DETAILS

SHEET NO SHEET TITLE

PREPARE SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT, PIPING, COMPONENTS AND ACCESSORIES TO BE USED. SUBMITTALS WILL BE CHECKED AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT

HOURLY RATES. TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.

ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT. . UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THE CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN,

ORDERLY CONDITION. THE CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER. TO PROVE ITS OPERATION. ALL FILTERS USED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO THE TEST

. THE CONTRACTOR SHALL GUARANTEE THE HVAC SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

THE CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT RFDI INFD RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINES SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE

MECHANICAL SPECIFICATIONS

230593 - TESTING, ADJUSTING, AND BALANCING

DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR OBTAIN THE SERVICES OF AN INDEPENDENT TESTING AND BALANCING AGENCY TO BALANCE AND ADJUST THE SYSTEM. THIS SHALL BE DONE BY PERSONS FULLY FAMILIAR WITH SYSTEMS OF THIS TYPE. BALANCING SHALL BE DONE IN ACCORDANCE TO AABC OR NEBB STANDARDS. ALL DATA SHALI BE RECORDED AND A REPORT SUBMITTED TO THE ENGINEER PRIOR TO JOB CLOSE OUT.

233113 - METAL DUCTWORK

10 GAUGE STEEL.

ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE ASHRAE THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, (SMACNA). TRANSITION ALL NEW DUCTWORK TO CONNECT TO EXISTING, AS REQUIRED.

DUCTWORK SHALL BE GALVANIZED STEEL THROUGHOUT, FABRICATED AND INSTALLED SO THAT NO VIBRATION OR NOISE RESULTS. IT SHALL BE MADE FROM THE BEST GRADE OF GALVANIZED MILLED STEEL SHEETS OF U.S. STANDARD GAUGE AND BE FREE FROM BLISTERS, SLIVERS, AND SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED PITS. ALL SEAMS SHALL BE AIRTIGHT, THE CONSTRUCTION OF ALL DUCTWORK, INCLUDING GAUGES OF METAL, BRACING LAYOUT, ETC., SHALL BE IN ACCORDANCE WITH SMACNA. SLEEVES WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR FOR FIRE DAMPERS AND DUCT SECTIONS FORMING AN EXTENSION OF THE FIRE WALL SHALL BE

SEAL DUCTWORK ACCORDING TO THE FOLLOWING SMACNA DUCT SEALING CLASS:

DUCT LOCATION	DUCT TYPE			
	SUPPLY		EXHAUST	DETUD
	<2in. Wg.	>2in. Wg.	EXHAUST	KETUK
OUTDOORS	Α	Α	Α	Α
UNCONDITIONED SPACES	В	Α	В	В
CONDITIONED SPACES	С	В	В	В
(CONCEALED DUCTWORK)				
CONDITIONED SPACES	Α	Α	В	В

HANGERS FOR DUCTS UP TO 18" IN WIDTH OR DIAMETER SHALL BE PLACED ON NOT MORE THAN ϵ FOOT CENTERS. DUCTS 19" AND OVER IN WIDTH OR DIAMETER SHALL BE SUPPORTED ON NOT MORE THAN 4 FOOT CENTERS. DUCT HANGERS SHALL BE CONSTRUCTED OF GALVANIZED BAND IRON 1-1/8" FOR DUCTS UP TO 36" IN WIDTH OR DIAMETER. HANGERS SHALL EXTEND DOWN SIDES AND A MINIMUM OF 1" UNDER RECTANGULAR DUCTS, AND WRAP COMPLETELY AROUND ROUND

DUCTS. ALL DUCTS SHALL BE RIGIDLY SUPPORTED. ALL DUCTWORK SHALL BE CLEANED PRIOR TO THE INSTALLATION OF CEILING AND DIFFUSERS. OPERATE FANS TO BLOW OUT DUCTWORK. RECTANGULAR LOW-PRESSURE SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1"

FACED FIBERGLASS INSULATION SECURELY BUTTONED OR LAPPED AND SEALED. INSULATION SHALL BE 1-1/2 POUND DENSITY. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM OUTDOOR DUCTWORK EXPOSED TO THE WEATHER SHALL BE LINED WITH MINIMUM R-8 FACED WITHOUT USING THE INCLUDED PIPING SCHEMATICS IS THE RESPONSIBILITY OF

FIBERGLASS INSULATION SECURELY BUTTONED OR LAPPED AND SEALED, AND SHALL BE FITTED WITH A 0.016 EMBOSSED ALUMINUM JACKET POP RIVETED FOR A WEATHERPROOF FIT.

DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR AREA AND SHALL BE INCREASED TO ACCOMMODATE INSULATION. DUCT LINER TO BE BY KNAUF GmbH, JOHN-MANSVILLE OR SCHULLER INTERNATIONAL.

233300 - DUCTWORK ACCESSORIES

FLEXIBLE DUCTWORK: THE FINAL 5 FOOT CONNECTION TO GRILLES AND DIFFUSERS IN LAY-IN CEILINGS, OR TO FLOOR MOUNTED GRILLES, MAY BE MADE WITH FLEXIBLE DUCT, FLEXMASTER TYPE 5M ONLY. ENDS SHALL BE SEALED.

SQUARE/RECTANGULAR ELBOWS SHALL BE PROVIDED WITH TURNING VANES PROVIDE FLEXIBLE CONNECTIONS NOT LESS THAN 4" WIDE CONSTRUCTED OF HEAVY,

WATERPROOF, WOVEN PLASTIC COATED GLASS FABRIC AT SUPPLY AND RETURN CONNECTIONS TO HEAT PUMPS, AIR HANDLING, ROOFTOP, MAKE-UP AIR OR FAN-COIL UNITS. CORNERS SHALL BE SEWN TIGHT. CONNECTIONS SHALL BE 20 OUNCE VENTFABRICS OR EQUAL. COMBINATION FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, OR FIRE DAMPERS IN DUCTWORK THROUGH ALL FLOORS AND FIRE WALLS SHALL BE FURNISHED AND INSTALLED AS REQUIRED TO CONFORM TO THE LATEST NFPA BULLETIN CONCERNING THIS TYPE OF BUILDING AND SHALL BE

LISTED AND LABELED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF UL555 AND

UL555S. DAMPERS, COMPLETE WITH MOUNTING ANGLES, SHALL BE MULTI-BLADE, FUSIBLE LINK, SPRING ACTING WITH 11 GAUGE SLEEVE. FUSIBLE LINK SHALL BE RATED AT 165°F. CONTROLLED BY AUTOMATIC SMOKE DETECTION IN DUCT OR AREA OF SMOKE DISPERSION. DUCT MOUNTED BALANCING DAMPERS SHALL BE USED TO CONTROL SUPPLY AIR TO EACH DIFFUSER AND GRILLE. AN OPERATING HEAD SHALL BE PLACED ON THE SIDE OF THE DUCT WITH A POSITIVE LOCKING QUADRANT. DAMPERS SHALL BE PROVIDED IN RETURN AND EXHAUST AIR DUCTS WHERE SHOWN ON DRAWINGS. COORDINATE THE LOCATION OF CEILING ACCESS PANELS.

FIRE/SMOKE DAMPERS, VALVES, ETC., WHERE THERE IS NOT A LIFT-OUT TYPE CEILING. ACCESS DOORS SHALL BE HINGED OF METAL CONSTRUCTION WITH SCREWDRIVER LATCHES. ACCESS DOORS TO BE LISTED AND FIRE RATED EQUAL TO OR GREATER THAN THE RATING ASSEMBLY THEY ARE INSTALLED IN. AT FIRE DAMPERS, A DUCT MOUNTED SHEET METAL HINGED DOOR SHALL BE PROVIDED AND INSTALLED WITH POSITIVE LOCKING HANDLE. WHERE DUCTS ARE INSULATED, COVERS SHALL BE INSULATED. FIRE DAMPERS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF UL555. CONTROLLED BY FIRE DETECTOR, FUSABLE LINK, OR

PENETRATIONS OF FIRE BARRIERS BY DUCTS. SYSTEM APPROVED BY ASTM E 814 OR EQUAL.

PROVIDE CEILING ACCESS DOORS AT ALL LOCATIONS OF BALANCING DAMPERS, FIRE DAMPERS,

GRAVITY OR BACKDRAFT DAMPERS SHALL BE ALL ALUMINUM CONSTRUCTION, INTERCON- NECTED AND BLADED, PRESSURE DROP THROUGH DAMPERS SHALL NOT EXCEED 0.04" W.G. FIRE ALARM CONTRACTOR SHALL TEST FOR FIRE/SMOKE DAMPERS AS REQUIRED BY LOCAL BUILDING OFFICIAL AND FIRE AUTHORITY PRIOR TO OCCUPANCY.

ELECTRICAL FUSABLE LINK, PROVIDE 1, 1-1/2, OR 3 HR FIRE RATED MATERIALS AT ALL

233713 - GRILLES, DIFFUSER AND LOUVERS

ALL GRILLES. DIFFUSERS, AND REGISTERS SHALL BE COMPLETE WITH FRAMES AND RUBBER GASKETS. FINISH FOR ALL REGISTERS, DIFFUSERS, AND GRILLES SHALL BE

COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, AND ARCHITECTURAL ELEVATIONS.

LOUVERS SHALL HAVE MINIMUM FREE AREA AND MAXIMUM PRESSURE DROP AS LISTED IN THE SCHEDULES. LOUVER SHALL HAVE FRAME AND SILLS COMPATIBLE WITH ADJACENT SUBSTRATE AND FIT ACCURATELY FOR WEATHERPROOF INSTALLATION. LOUVERS SHALL BE COMPLETE WITH 1/2" MESH ANODIZED ALUMINUM BIRD SCREEN.





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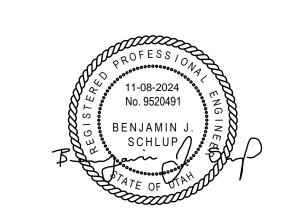
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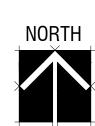
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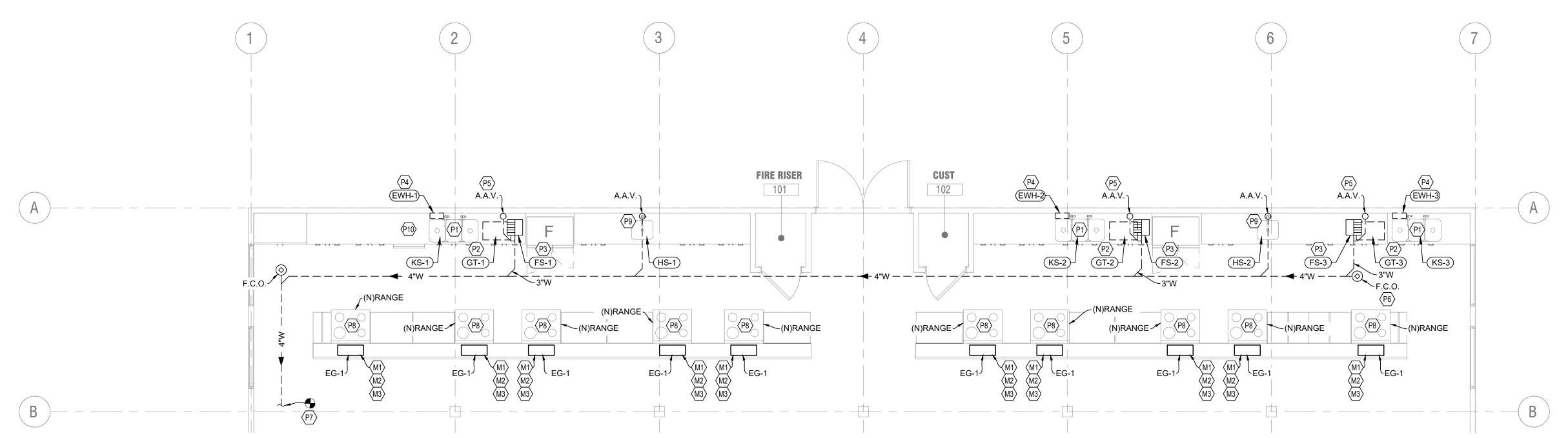


MECHANICAL GENERAL NOTES, LEGEND & SPECS

Sheet Number **M001**

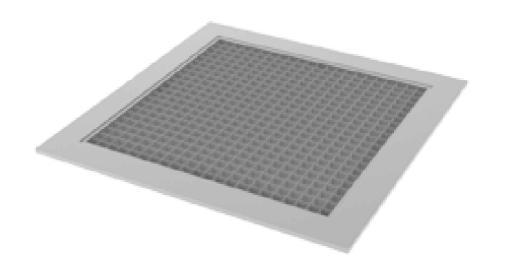


1) MECHANICAL & PLUMBING DEMOLITION PLAN SCALE: 1/4" = 1'-0"





1) MECHANICAL & PLUMBING PLAN SCALE: 1/4" = 1'-0"



		DIFFUSER A	AND GRI	LLE SC	HEDUL	.E
SYMBOL	MANUFACTURER AND MODEL NO.	LOCATION	CFM	OVERALL SIZE	NOTES	ACCESSORIES AND REMARKS
EG-1	TITUS CT-700L	COUNTERTOP	SEE PLANS	20" X 8"	1,2,3	304 STAINLESS STEEL EXHAUST GRILLE

NOTES:
(1) PROVIDE BALANCING DAMPER AND GRILLE FRAME TO ALLOW FOR REMOVAL AND CLEANING.
(2) 1/2" X 1/2" X 1"DP CORE SIZE.
(3) OWNER TO VERIFY EXHAUST GRILLE SUBMITTAL FOR APPROVAL PRIOR TO ORDER.

GENERAL NOTES

- PROVIDE NECESSARY CLEARANCES TO ALLOW FOR SERVICE TO ALL EQUIPMENT.
- 2. COORDINATE EQUIPMENT INSTALLATION WITH ELECTRICAL CONTRACTOR.
- 3. PLUMBING CONTRACTOR SHALL TURN OFF THE NATURAL GAS AT THE METER AND REPLACE EACH RANGE ISOLATION VALVE, GAS PRESSURE REGULATOR AND FLEX LINE PRIOR TO INSTALLING THE NEW MODELS. IT IS RECOMMENDED THAT TESTING BE DONE TO ENSURE ADEQUATE BURNER OPERATION IS ACHIEVED PRIOR TO TURNING THINGS BACK OVER THE
- 4. EXISTING COUNTERTOP EXHAUST GRILLES TO BE REMOVED AND REPLACED. STOCKPILE EXISTING GRILLES.

KEYED NOTES

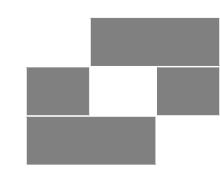
	MEGNATIOAL DEMOCITION
MD1	REMOVE EXISTING DUCTWORK AND BALANCING DAMPERS WITHIN CABINETS. TAKE INVENTORY OF DUCTWORK SIZING AND FITTINGS TALLOW FOR DIRECT REPLACEMENT . PROVIDE NEW BALANCING DAMPERS AND BALANCE EACH GRILLE TO EQUAL AIR FLOW.

- REMOVE AND STOCKPILE EXISTING COUNTERTOP EXHAUST GRILLES. EXHAUST GRILLES ARE SCHEDULED TO BE REPLACED.
- PLUMBING DEMOLITION
- EXISTING HAND SINK TO BE REMOVED. NEW WATER, WASTE, & VENT CONNECTION TO BE PROVIDED AT NEW SINK.
- PD2
 REMOVE EXISTING WATER HEATER TO ALLOW FOR REPLACEMENT. PROVIDE NEW COLD WATER FEED AND REMOVE EXISTING WASTE LINE TO ALLOW FOR INSTALLATION OF NEW SINK, GREASE TRAP AND FLOOR SINK ASSEMBLY.
- EXISTING FLOOR CLEANOUT AT THIS LOCATION TO BE
- EXISTING SANITARY WASTE MAIN TO REMOVED AND REPLACED. VERIFY EXACT LOCATION.
- REMOVE EXISTING SINK.
- PD6 REMOVE EXISTING GARBAGE DISPOSAL.
- REMOVE EXISTING RANGE. SHUT OF NATURAL GAS AT MAIN. REMOVE EXISTING ISOLATION VALVE, GAS PRESSURE REGULATOR AND FLEXIBLE GAS LINE TO EACH RANGE TO ALLOW FOR REPLACEMENT.
- REMOVE EXISTING BELOW COUNTER FLOOR SINK / DRAIN.

KEYED NOTES MECHANICAL

,		MECHANICAL
	(M1)	REMOVE AND REPLACE EXISTING COUNTERTOP EXHAUST GRILLE WITH NEW EXHAUST GRILLE (EG-1) SCHEDULED BELOW.
	M2	PROVIDE NEW BELOW COUTER DUCTWORK TO MATCH EXISTING CONDISTIONS. PROVIDE NEW BALANCING DAMPER AT EACH EXHAUST GRILLE AND BALANCE EXHAUST FLOW EQUALLY.
	M3	INSPECT EXISTING CONDITION OF ALL EXHAUST DUCTWORK INTERIOR SURFACE AND CLEAN THOROUGHLY.
·		
		PLUMBING
	(P1)	3 COMPARTMENT SINK. PROVIDE WATER, WASTE, & VENT CONNECTION. SEE PLUMBING SCHEDULE FOR FIXTURE PIPING SIZES. COMBINE AND ROUTE WASTE LINES TO ADJACENT GREASE TRAP.
	P2	GREASE TRAP. PROVIDE INDIRECT CONNECTION TO ADJACENT FLOOR SINK. CONNECTION. SEE PLUMBING SCHEDULE FOR FIXTURE PIPING SIZES.
	(P3)	FLOOR SINK. PROVIDE WASTE & VENT CONNECTION. SEE PLUMBING SCHEDULE FOR FIXTURE PIPING SIZES.
	P4	WATER HEATER. PROVIDE COLD WATER INLET AND ROUTE COLD AND HOT WATER LINES TO NEARBY SINK. SEE PLUMBING SCHEDULE FOR FIXTURE PIPING SIZES.
	(P5)	PROVIDE AIR ADMITTANCE VALVE IN WALL WITH VENTED ENCLOSURE AS NEEDED OR EXTEND VENT THROUGH ROOF.
	P6	PROVIDE CLEANOUT AT THIS LOCATION.
	(P7)	CONTINUE NEW 4" WASTE LINE TO EXISTING SANITARY WASTE MAIN. FIELD VERIFY EXACT LOCATION.
	(P8)	PROVIDE NEW GAS LINE WITH ISOLATION VALVE AT THIS LOCATION. PROVIDE NEW MANUFACTURER RECOMMENDED INDOOR GAS PRESSURE REGULATOR AND FLEXIBLE NATURAL GAS LINE TO ALLOW FOR REMOVAL AND MAINTENANCE OF NEW GAS-FIRED RANGE.
	(P9)	HAND WASH SINK / LAVATORY. PROVIDE NEW HOT AND COLD WATER CONNECTIONS FROM NEW ADJACENT WATER HEATER. PROVIDE THERMOSTATIC MIXING VALVES AND PIPING INULATION.
	P10	ROUTE HOT WATER LINE TO DISHWASHER. DISHWASHER DISCHARGE LINE TO ROUTE WITHIN CABINETS AND DISPOSE INTO FLOOR SINK. PROVIDE DRAIN LINE EXTENSION AS NEEDED AND DIRECT INTO FLOOR SINK TO AVOID SPLASHING WITHIN CABINETS.





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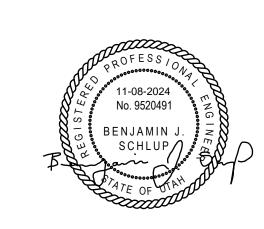
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Sheet Title

MECHANICAL & PLUMBING PLAN

MP101

SYI	MBOL LEGEND	AE	BREVIAT
SYMBOL	DESCRIPTION	NOTE:	ALL ABBREVIATIONS MAY
PLUMBING PIPING		AD ACCESS DOOF AC AIR CONDITION	
W	SOIL, WASTE - ABOVE GRADE	APD AIR PRESSURE BD BALANCING DA	E DROP MIN
	SOIL, WASTE - BELOW GRADE	BHP BRAKE HORSE BTU BRITISH THERI	POWER NC
GW	GREASE WASTE - ABOVE GRADE	BTUH BTU/HOUR CFH CUBIC FEET PI	
	GREASE WASTE - BELOW GRADE	CFM CUBIC FEET PI	NTS
		COMP COMPONENT COND CONDENS(-ER	
	VENT	CV CONTROL VAL CW COLD WATER DIA DIAMETER	VE OZ PD PG
	COLD WATER	DISCH DISCHARGE DP DEPTH OR DEE	PH
	HOT WATER	DB DRY BULB TEM (E) EXISTING	
	HOT WATER CIRCULATE	EER ENERGY EFFIC	
ST	STORM - ABOVE GRADE	EG ETHYLENE GLY	
ST	STORM - BELOW GRADE	ELEV ELEVATION ENT ENTERING	RA RECIRC
OST	OVERFLOW STORM	EWT ENTERING WA	
	ABOVE GRADE	EXT EXTERNAL (F) FUTURE	RPM RW
OST	OVERFLOW STORM BELOW GRADE	F FAHRENHEIT FC FLEXIBLE CON FD FIRE DAMPER	NECTION SC SCW
VTR	VENT THRU ROOF	FLA FULL LOAD AM	PS SF
(E)	EXISTING PIPE	FPM FEET PER MINI FPS FEET PER SEC	UTE SL
<i>чининн</i> .(Е) <i>чинини.</i>	EXISTING PIPE TO BE REMOVED	FSD FIRE SMOKE D	SQ
G	GAS	GAL GALLON(S) GPH GALLONS PER	
CVI	MBOL LEGEND	GPM GALLONS PER HD HEAD	TD
		HG MERCURY HR HOUR HT HEIGHT	TOT TSTAT V
SYMBOL	DESCRIPTION	HTG HEATING HP HORSE POWER	VAC
VALVES, METERS	, AND GAUGES	HW HOT WATER HZ HERTZ(FREQU	VEL
	SHUT OFF VALVE	ID INSIDE DIAMET	
	GATE VALVE	KW KILOWATT LAT LEAVING AIR T	WC EMPERATURE WG
	CHECK VALVE	LBS POUNDS LG LENGTH	WPD WTR
—	AUTO 2-WAY VALVE	LH LATENT HEAT LRA LOCKED ROTO	R AMPS WB
	AUTO 3-WAY VALVE	LVG LEAVING LWT LEAVING WATE	ER TEMP
	GLOBE VALVE	MAX MAXIMUM MBH THOUSAND BT	U PER HOUR
<u> </u>		SY	MBOL LEC
ψ	BALL VALVE	SYMBOL	DESCRIPTION
	RELIEF VALVE		LINE SYMBOLS
	CHAIN OPERATED GATE VALVE		DETAIL INDICATOR: #1
	PRESSURE REDUCING VALVE	(# SHEET)	SHEET INDICATES DRA SHOWN.
	BUTTERFLY VALVE	100	ROOM OR SPACE NUM
	SOLENOID VALVE		KEYNOTE INDICATOR.
			REVISION INDICATOR.
	ANGLE VALVE	CU-1	EQUIPMENT INDICATOR
	VENTURI	(P-)	PLUMBING FIXTURE IN
	BALANCING OR PLUG COCK	TYPE	
—————————————————————————————————————	FLOW SETTER	CFM SIZE	DIFFUSER/GRILLE INDI
		TYPE	
<u></u>	EXPANSION VALVE (REFRIG.)	SIZE	DIFFUSER/GRILLE INDI
	GAS COCK		BREAK, STRAIGHT
\$MAV	MANUAL AIR VENT	\$	BREAK, ROUND.
	STRAINER	MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATO
			HIDDEN FEATURES LIN
├	GAUGE COCK		CONTRACT LIMIT LINE:
	FLEXIBLE CONNECTION		NEW CONNECTION PO
φ	PRESSURE GAUGE		EXISTING
П			
Щ	THERMOMETER		
	VICTAULIC COUPLING		
	REDUCER CONCENTRIC		
	REDUCER ECCENTRIC		
	REFRIGERANT SITE GLASS		
	REFRIGERANT STRAINER		
	REFRIGERANT FILTER DRIER		
<u> </u>	90° ELBOW UP		
<u> </u>	90° ELBOW DOWN		
	90° TEE UP		
	90° TEE DOWN		
	UNION		
'I' 	CAPPED PIPE		
PLUMBING SYMBO	1		
	1		
C.B.	CATCH BASIN		
○ м.н.	MANHOLE		
———— W.H.	WALL HYDRANT		
Н.В.	HOSE BIBB		
—Ф	CLEANOUT TO GRADE		
	FLOOR CLEANOUT		
Ψ			
	WALL CLEANOUT		
	1/2 GRATE		
	3/4 GRATE		
	FULL GRATE		
•	DOMESTIC COLD WATER ROUGH-IN		
	DOMESTIC HOT WATER ROUGH-IN		

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED

SYMBOL LEGEND

ROOM OR SPACE NUMBER.

PLUMBING FIXTURE INDICATOR.

DIFFUSER/GRILLE INDICATOR.

DIFFUSER/GRILLE INDICATOR.

NEW CONNECTION POINT TO

HIDDEN FEATURES LINE: HIDDEN, THIN LINE.

CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.

MINIMUM CIRCUIT AMPS

MANUFACTURER

NOT APPLICABLE

NOISE CRITERIA

NOT IN CONTRACT

NORMALLY OPEN

OUTSIDE DIAMETER

PROPYLENE GLYCOL

PARTS PER MILLION

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

THERMAL RESISTANCE

REVOLUTIONS PER MINUTE

SHADING COEFFICIENT

SOFT COLD WATER

SAFETY FACTOR

SENSIBLE HEAT

SPECIFICATION

TEMPERATURE

THERMOSTAT

TEMP. DROP OR DIFF.

VARIABLE AIR VOLUME

WATER PRESSURE DROP

VENT, VENTILATION

WATER COLUMN

WET BULB TEMP

WATER GAUGE

STATIC PRESSURE

PRESSURE DROP

NOT TO SCALE

OUTSIDE AIR

OUNCE

PHASE

PRESSURE

PSI GAUGE

RETURN AIR

REQUIRED

RAINWATER

SUPPLY AIR

SEA LEVEL

SQUARE

STEAM

TOTAL

VENT

VACUUM

VELOCITY

VERTICAL

VOLUME

WATER

WEIGHT

DETAIL INDICATOR: # INDICATES DETAIL NUMBER,

SHEET INDICATES DRAWING SHEET WHERE DETAIL IS

STANDARD

REFRIGERATION

RECIRC RECIRCULATE

PSI ABSOLUTE

NET POSITIVE SUCTION HEAD

NORMALLY CLOSED

MINIMUM

PLUMBING SPECIFICATIONS

220100 - BASIC PIPING MATERIALS & METHODS

- CORE CUT ALL PIPE PENETRATION OF EXISTING MASONRY OR CONCRETE WALLS AND FLOORS. SLEEVE ALL PENETRATIONS THROUGH NEW WALLS AND FLOORS. SEAL ALL PENETRATIONS WATER TIGHT WITH SILICONE SEALANT. USE FIRE RATED SEALANT (3M "FIRE BARRIER" OR EQUAL) FOR 1 HOUR OR 2 HOUR PENETRATIONS.
- CAULK AROUND ALL PIPING THAT PASSES THROUGH FIRE-RATED PARTITIONS WITH A NON-HARDENING CAULKING SIMILAR TO 3M "FIRE
- 3. SEAL ALL PIPING THROUGH WALLS AIR TIGHT.

220533 - HEAT TRACING CABLE

- PROVIDE RAYCHEM ELECTRIC SELF REGULATING HEATING CABLE WITH ALL NECESSARY ACCESSORIES TO MAINTAIN THE TEMPERATURE IN THE TRACED PIPE SYSTEM AT 45°F.
- FOR DOMESTIC HOT WATER USE, THE CABLE SHALL BE DESIGNED, MANUFACTURED AND U.L. LISTED FOR DOMESTIC HOT WATER TEMPERATURE MAINTENANCE.
- CABLE SHALL CONSIST OF TWO (2) 16-AWG NICKEL-COATED COPPER BUS WIRES EMBEDDED IN A RADIATION-CROSSLINKED CONDUCTIVE POLYMER CORE, IT SHALL BE COVERED BY A RADIATION-CROSSLINKED. POLYOLEFIN, DIELECTRIC JACKET SURROUNDED BY A POLYMER-COATED ALUMINUM WRAP, AND ENCLOSED IN A TINNED COPPER BRAID OF 14 AWG EQUIVALENT WIRE SIZE. THE BRAID SHALL BE COVERED WITH A (NOMINAL) 40-MIL POLYOLEFIN OUTER JACKET, COLOR CODED FOR EASY IDENTIFICATION.

220548 - VIBRATION ISOLATION AND SEISMIC

ATTENUATE HIGH FREQUENCY SOUND

METHODS ARE NOT ACCEPTABLE.

- ALL PLUMBING EQUIPMENT AND PIPING MUST BE VIBRATION ISOLATED AND SEISMICALLY BRACED FOR THE SITE SPECIFIC SEISMIC DESIGN CATEGORY AND SEISMIC USE GROUP, IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE BUILDING CODES AND ASHRAE. PROVIDE SEISMIC PRODUCTS BY AMBER-BOOTH OR MASON INDUSTRIES.
- IN GENERAL, PROVIDE SPRING MOUNTS TO ATTENUATE LOW FREQUENCY SOUND AND VIBRATION. PROVIDE NEOPRENE PADS TO
- VIBRATION: SEISMIC BRACING/MOUNTING CAN BE COMBINED WITH VIBRATION ISOLATION AS APPLICABLE.
- 4. CONTRACTOR MANUFACTURED SEISMIC BRACING/RESTRAINT
- PROVIDE A SIGNED AND STAMPED LETTER FROM A PROFESSIONAL ENGINEER CERTIFYING THAT THE SUPPLIED PRODUCTS ARE CORRECT FOR THE APPLICATION AND THAT THE INSTALLATION IS IN COMPLIANCE WITH ALL APPLICABLE CODES.

220719 - INSULATION

- PIPE INSULATION: SNAP-ON GLASS FIBER TYPE WITH VAPOR JACKET. SEAL ALL ENDS AND JOINTS TO PROVIDE A COMPLETELY SEALED SYSTEM. ALTERNATIVELY, FOR INTERIOR WATER PIPING, USE FLEXIBLE UNICELLULAR ASTM 534 TYPE 1 INSULATION. USE 1" THICKNESS FOR PIPE UP TO 2"Ø AND 1-1/2" FOR PIPE OVER 2"Ø
- PROVIDE ADA COMPLIANT FIXTURES WITH SNAP ON ADA ARTICLE 4.19 22FF COMPLIANT WHITE INSULATION. TRUEBRO LAV GUARD, BASIN GUARD OR LAV SHIELD.
- THERMAL AND SOUND INSULATION AND COVERING WHICH ARE INSTALLED AND EXPOSED SPACES AND COVERING PIPE AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.
- THERMAL AND SOUND INSULATION AND COVERING OVER PIPE AND TUBING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50.
- (PIPING IN PROCESS SPACES): PROVIDE SMOOTH 304 STAINLESS STEEL INSULATION JACKETING WITH 304 SS PIPE INSULATION BANDING.
- (PIPING IN UTILITY AREAS AND ABOVE CEILING) PROVIDE PVC JACKETING WITH MATCHING ESCUTCHEON MATERIAL.

221116 - WATER DISTRIBUTION PIPING

- 1. UNDERGROUND WATER PIPING:
- 2" AND SMALLER: ASTM 88 TYPE "K" COPPER WITH A MINIMUM NUMBER OF SOLDERED JOINTS. USE 95-5 TIN ANTIMONY COPPER SOLDER.
- 2-1/2" AND LARGER: PVC AWWA 900 CLASS 100 WITH SOLVENT CEMENTED JOINTS, OR PB PLASTIC PIPE ASTM D3309 SDR 11 WITH HEAT FUSION JOINTS.
- NO TYPE "M" OR "DWV" COPPER IS TO BE USED IN THIS PROJECT.
- ALL ABOVE GROUND HOT AND COLD WATER PIPING (DOMESTIC USE): ASTM B 88 TYPE "K" COPPER, WITH WROUGHT COPPER FITTINGS AND SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER. 304 SS ESCUTCHEONS AT WALL OR CEILING PENETRATIONS INTO PROCESS SPACES.
- INSTALL PIPE HANGERS WITH THE FOLLOWING MINIMUM ROD SIZES AND MAXIMUM SPACING. UPON COMPLETION OF HANGER INSTALLATION, ALL ADJUSTMENTS HAVING THE POSSIBILITY OF TURNING SHALL BE LOCKED SECURELY IN PLACE BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE, AND AT THE PIPE HANGER.

NOM. PIPE SIZE-INCHES	MAX SPAN-FT.	MIN. ROD SIZE-INCHES
<u>GIZE INGINES</u>	7	
1	1	3/8
1-1/2	9	3/8
2	10	3/8
3	12	1/2
4	14	5/8
6	17	3/4

- ALL PIPE HANGERS AND EQUIPMENT SUPPORTS SHALL BE LOCATED A MINIMUM DISTANCE OF 2" FROM ANY REFRIGERANT PIPE.
- ALL PLUMBING FIXTURES CONNECTED TO A POTABLE WATER SYSTEM WITH HOSE CONNECTIONS ON THE OUTLET SIDE AND OWNER FURNISHED EQUIPMENT WITH DIRECT CONNECTIONS, SHALL BE PROVIDED WITH APPROVED AIR GAP FITTING.

PLUMBING SPECIFICATIONS

221316 - DRAINAGE AND VENT SYSTEMS

- 1. UNDERGROUND BUILDING DRAIN PIPE AND FITTINGS: A. NO HUB ABS OR PVC PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2235 SOLVENT
 - B. ASTM A74 SERVICE WEIGHT, HUB AND SPIGOT CAST IRON SOIL PIPE. OR ASTM A888 (OR CISPI 301) HUBLESS CAST IRON SOIL PIPE WITH ASTM C564 HEAVY DUTY SHIELDED STAINLESS STEEL
 - A. NO ASTM D2729 PIPE SHALL USED UNDERGROUND.
 - ABOVE GROUND SANITARY DRAINAGE AND VENT PIPING, IN ALL AREAS EXCEPT AIR PLENUMS AND EXCEPT IN A FIRE RATED BUILDING. SHALL BE ABS TYPE DWV PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2255 SOLVENT, OR PVC PLASTIC PIPE AND FITTINGS PER ASTM D2665 WITH ASTM D2564 SOLVENT, OR SERVICE WEIGHT, NO HUB CAST IRON COUPLED PIPE AND FITTINGS WITH COMPRESSION TYPE NEOPRENE GASKETS AND STAINLESS STEEL BANDS.
- FORCE SEWER MAINS UP TO 4" SHALL BE TYPE L HARD COPPER TUBE WITH WROUGHT COPPER PRESSURE FITTINGS AND SOLDERED JOINTS, OR DUCTILE IRON PIPE AND FITTINGS WITH MECHANICAL JOINTS.
- 4. ALL SANITARY DRAINAGE AND VENT PIPING INSIDE AIR PLENUMS AND ANYWHERE IN A FIRE RATED BUILDING SHALL BE NO HUB SERVICE WEIGHT CAST IRON COUPLED PIPE AND FITTINGS WITH COMPRESSION TYPE NEOPRENE GASKETS AND STAINLESS STEEL BANDS. ASTM B306 COPPER PIPE MAY BE USED WITH SOLDERED JOINTS FOR PIPE 3" AND
- ABOVE GROUND ROOF DRAIN LINES, EXCEPT IN AIR PLENUMS AND ANYWHERE IN A FIRE RATED BUILDING, SHALL BE ABS TYPE DWV PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2255 SOLVENT, OR PV C PLASTIC PIPE PER ASTM D2665 WITH ASTM D2564 SOLVENT.
- ALL ROOF DRAIN LINES INSIDE AIR PLENUMS, OR ANYWHERE IN A FIRE RATED BUILDING, SHALL BE SERVICE WEIGHT CAST IRON PIPE TO CISPI STANDARD 301.
- 7. ALL ROOF DRAIN LINES SHALL BE FULLY INSULATED. 8. OVERFLOW ROOF DRAINS SHALL DAYLIGHT 18" ABOVE THE
- SURROUNDING HORIZONTAL AREA. INSTALL SANITARY DRAIN LINES 2-1/2" AND LESS WITH A SLOPE OF 2%.
- INSTALL SANITARY DRAIN LINES 3"-6" WITH A SLOPE OF NOT LESS THAN
- 10. SLOPE ROOF DRAIN LINES DOWN IN DIRECTION OF FLOW, 1/8" PER FOOT (1%).

11. CLEANOUTS

- A. FINISHED WALL CLEANOUTS: SMITH FIGURE 4472 COMPLETE WITH CAST BRONZE TAPER THREADED PLUG. STAINLESS STEEL COVER
- B. FLOOR CLEANOUTS (UNFINISHED AREAS): SMITH FIGURE 4223 DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPER THREADED BRONZE PLUG AND
- SPIGOT OUTLET. FINISHED FLOOR CLEANOUTS (CONCRETE FLOORS): SMITH FIGURE 4023 DUCO CAST IRON CLEANOUT WITH ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP, TAPER THREADED CAST BRONZE
- PLUG AND SPIGOT OUTLET. D. FINISHED FLOOR CLEANOUTS (CARPETED FLOORS): SMITH FIGURE
- 4023-Y SAME AS CONCRETE FLOORS WITH CARPET MARKER. FINISHED FLOOR CLEANOUTS (TILE FLOORS): SMITH FIGURE 4163 DUCO CAST IRON CLEANOUT WITH SQUARE ADJUSTABLE SECURED
- NICKEL BRONZE TOP WITH 1/8" RECESS. TAPER THREADED BRONZE PLUG AND SPIGOT OUTLET. EXTERIOR CLEANOUTS (CLEANOUT TO GRADE): SMITH FIGURE 4253 DUCO CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING

DEVICE, TAPER THREADED BRONZE PLUG AND SPIGOT OUTLET.

- 12. FLOOR DRAINS:
- FD-1 FLOOR DRAIN: SMITH FIGURE 2010-BP CAST IRON BODY AND FLASHING COLLAR WITH PROTECTIVE CAP AND SQUARE NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED SQUARE HOLE GRATE. AND TRAP PRIMER CONNECTION.
- FD-2 MECHANICAL ROOM DRAIN: SMITH FIGURE 2110-NB MEDIUM DUTY FLOOR DRAIN. CAST IRON BODY AND FLASHING COLLAR WITH NICKEL BRONZE BAR GRATE.
- 13. ROOF DRAINS (AS REQUIRED IF REPLACEMENT IS NECESSARY)
- RD-1 ROOF DRAIN: SMITH FIGURE 1010-ERC CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP. CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP. ORD-1 OVERFLOW ROOF DRAIN: SMITH FIGURE 1080-ERC CAST IRON
- BODY WITH FLASHING CLAMP, GRAVEL STOP, CAST IRON DOME, 2" HIGH CAST IRON WATER COLLAR, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.
- DSN-1 DOWNSPOUT NOZZLE:SMITH FIGURE 1770 DOWNSPOUT NOZZLE. CAST BRONZE BODY AND FLANGE. PROVIDE BRONZE BOLTS TO SECURE NOZZLE TO WALL. INSTALL 12" ABOVE FOUNDATION UNLESS
- NOTED OTHERWISE. 14. WATER ENTRIES
- DOMESTIC WATER ENTRY: WATTS 957NRS (NON-RISING STEM) OR EQUAL. REDUCED PRESSURE ZONE ASSEMBLY PROVIDING PROTECTION TO THE POTABLE WATER SYSTEM FROM CONTANINATION IN ACCORDANCE WITH NATIONAL PLUMBING CODES, AVAILABLE IN HORIZONTAL OR VERTICAL (UP OR DOWN) INSTALLATION, 304 (SCHEDULE 40) STAINLESS STEEL HOUSING AND SLEEVE, BOTTOM MOUNTED CAST STAINLESS STEEL RELIEF VALVE, 3" AVAILABLE WITH QUARTER-TURN BALL VALVE SHUTOFFS, TEMPERATURE RANGE: 33°F -140°F, MAXIMUM WORKING PRESSURE: 175PSI, TEMPERATURE RANGE: 33°F – 210°F, MAXIMUM WORKING PRESSURE: 175PSI (FOR MAIN SERVICE WATER ENTRY APPLICATIONS)

PLUMBING SPECIFICATIONS

223000 - WATER HEATERS

ARE DISSIMILAR METALS.

- INSTALL UNITS PLUMB AND LEVEL AND FIRMLY ANCHORED PER SEISMIC REQUIREMENTS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ORIENT SO CONTROLS AND DEVICES NEEDING SERVICING ARE ACCESSIBLE.
- 2. CONNECT HOT AND COLD WATER PIPING TO UNITS WITH SHUT-OFF VALVES AND UNIONS. CONNECT HOT WATER CIRCULATING PIPING TO
- UNIT WITH SHUT-OFF VALVE, CHECK VALVE AND UNION. USE DIELECTRIC FITTINGS AND UNIONS WHERE PIPING CONNECTIONS
- INSTALL VACUUM RELIEF VALVE IN COLD WATER INLET PIPING. EXTEND RELIEF VALVE DISCHARGE TO CLOSEST FLOOR DRAIN. INSTALL DRAIN AS INDIRECT WASTE TO SPILL INTO OPEN DRAIN OR OVER FLOOR
- PROVIDE AND INSTALL EXPANSION TANK AS SCHEDULED IN DRAWINGS. EXPANSION TANK: DIAPHRAGM TYPE, PRE- PRESSURIZED STEEL TANK WITH RELIEF VALVE SETTING @ 120 PSI MAXIMUM PRESSURE.
- CONNECT GAS SUPPLY PIPING TO BURNER WITH DRIP LEG. TEE. GAS COCK, AND UNION, MINIMUM SIZE SAME AS INLET CONNECTION. INSTALL GAS PRESSURE REGULATORS WHERE INDICATED.
- CONNECT OIL PIPING TO OIL BURNER WITH SHUT-OFF VALVE AND UNION IN SUPPLY AND CHECK VALVE AND UNION IN RETURN PIPING.
- ELECTRICAL CONNECTIONS: POWER WIRING AND DISCONNECT SWITCHES ARE SPECIFIED IN DIVISION 16. CONNECT UNIT COMPONENTS TO GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- HOOD TO VENT SYSTEM. UNLESS OTHERWISE INDICATED, PROVIDE VENT SAME SIZE AS OUTLET ON HEATER. COMPLY WITH GAS UTILITY REQUIREMENTS.

VENT CONNECTIONS: CONNECT GAS FIRED WATER HEATER DRAFT

- 10. CONNECT OIL-FIRED WATER HEATER VENT AND DRAFT REGULATOR TO VENT SYSTEM. PROVIDE VENT AND DRAFT REGULATOR SAME SIZE AS OUTLET ON HEATER.
- 11. PROVIDE SEALED COMBUSTION SYSTEMS WITH CONNECTIONS FOR OUTSIDE COMBUSTION AIR.
- 12. PROVIDE CONCENTRIC VENT TERMINATION KIT FOR ROOF OR WALL
- 13. PROVIDE PVC COMBUSTION AIR AND VENT PIPING FROM WATER HEATER TO TERMINATION KIT.
- 14. PROVIDE CONDENSATE DRAIN FROM WATER HEATER OR VENT AS

224213 - PLUMBING FIXTURES

APPLICATIONS.

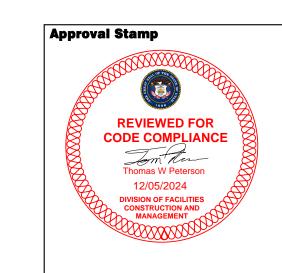
- PROVIDE AND INSTALL CARRIERS AS REQUIRED FOR FLOOR OR WALL MOUNTED PLUMBING FIXTURES. INSTALL ALL FIXTURES WITH ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE, WORKABLE INSTALLATION.
- PLUMBING FIXTURES SHALL INCLUDE COMPRESSION STOPS ABOVE FLOOR IN SUPPLIES TO ALL FIXTURES AND A MINIMUM 17 GAUGE P-TRAP.
- 3. ALL LAVATORIES AND HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS.
- 4. ALL JANITORIAL SINK FAUCETS MUST BE PROVIDED WITH AN APPROVED AIR GAP FITTING.
- IF APPLICABLE, ANY MOP SINK CHEMICAL DISPENSERS SHALL HAVE A DEDICATED WATER SUPPLY LINE AND AN APPROVED AIR GAP FITTING.
- FLOOR DRAINS AND FLOOR SINKS ARE SHOWN IN THE APPROXIMATE LOCATION. COORDINATE FINAL LOCATION WITH EQUIPMENT AND DRAINAGE REQUIREMENTS. PROVIDE BLOCKOUTS AS NECESSARY.

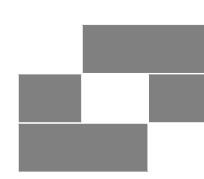
PENETRATION FIRESTOPPING NOTES

- CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND PROVIDE SPECIFIC FIRESTOPPING DETAILS FROM A SPECIFIC FIRESTOPPING MANUFACTURER FOR EACH MECHANICAL (HVAC) AND PLUMBING PIPE OR DUCT PENETRATION FOR EACH FIRE RATED
- PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF
- 3. PENETRATION FIRESTOPPING SYSTEMS SHALL BE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH PENETRATING ITEMS IF ANY.

CONSTRUCTION PENETRATED.

- 4. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: PROVIDE PENETRATION FIRESTOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WG
- 5. PENETRATION FIRESTOPPING PRODUCTS SHALL BEAR UL, ETL OR FM GLOBAL CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTING AGENCY.
- 6. DO NOT INSTALL PENETRATION FIRESTOPPING WHEN AMBIENT OR SUBSTRATE TEMPERATURES ARE OUTSIDE LIMITS PERMITTED BY PENETRATION FIRESTOPPING MANUFACTURERS OR WHEN SUBSTRATES ARE WET BECAUSE OF RAIN, FROST, CONDENSATION, OR OTHER CAUSES.
- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT PENETRATION FIRESTOPPING IS INSTALLED ACCORDING TO SPECIFIED REQUIREMENTS.
- 8. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE PENETRATION FIRESTOPPING.
- 9. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.
- 10. INSTALL FORMING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
- 11. IDENTIFY PENETRATION FIRESTOPPING WITH PREPRINTED METAL OR PLASTIC LABELS. ATTACH LABELS PERMANENTLY TO SURFACES ADJACENT TO AND WITHIN 6 INCHES OF FIRESTOPPING EDGE SO LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOPPING.





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Fairpark Zions Test Kitchen

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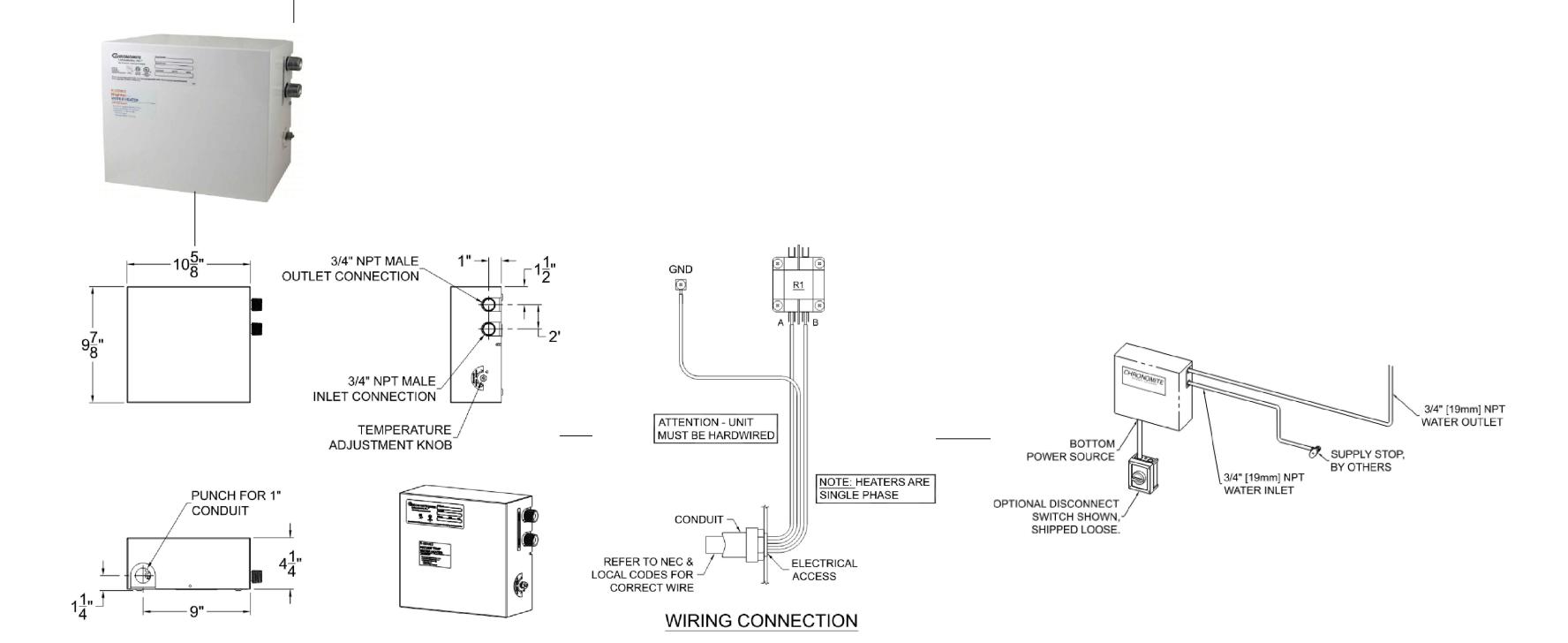
PLUMBING GENERAL NOTES & LEGEND

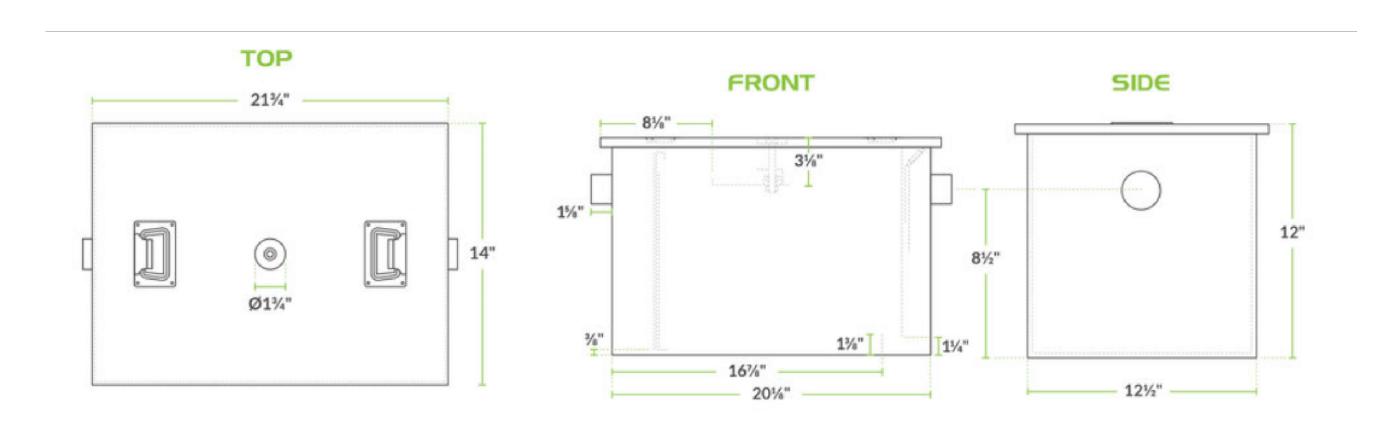
P001



	PLU	MBING FIXTUR	E SC	HED	JLE (COO	RDINATE MOUNTING HEIGHTS WITH ARCH. PLANS)
SYMBOL	FIXTURE	MANUFACTURER AND MODEL NO.	COLD WATER	HOT WATER	WASTE	VENT	ACCESSORIES AND REMARKS
KS-1,2,3	3-COMPARTMENT KITCHEN SINK & FAUCET:	ELKAY LTR4622 & ELKAY LK6000	(2)1/2"	(2)1/2"	(3)3-1/2"	-	TRIPLE BOWL UNDERMOUNT SINK, 20 GAUGE SS, 40" OVERALL WIDTH. 12" X 14" X 9-1/4" BOWL DIMENSION. VERIFY SELECTION FOR ADA LOCATION WITH MANUFACTURER AS SINK DEPTH MAY NEED TO BE ADJUSTED.
							FAUCET: PULL-OUT SPRAY, 1.5 GPM, (ADA), 11-1/2" SPOUT REACH, SINGLE HOLE
TMV-1	THERMOSTATIC MIXING MIXING VALVE	(AT EXISTING HAND SINK)	1/2"	1/2"	-	-	PROVIDE BDT VARIATION BELOW DECK THERMOSTATIC MIXING VALVE (SET WATER TEMP TO 110°F) PROVIDE UNDERCOUNTER PIPING INSULATION KIT.
GT-1,2,3	GREASE TRAP	REGENCY #600GT10	-	-	2"	1-1/2"	20 LB, 10 GPM GREASE TRAP WITH 2" NON-THREADED CONNECTIONS. 21-3/4" L X 14" W X 12" H. STEEL CONSTRUCTION REMOVABLE BAFFLE AND EXTERNAL FLOW CONTROL FITTINGS. DUAL HANDLES TO HELP PULL THE LID OFF.
HS-1,2	HAND SINK &	ELKAY EFRU2115T	1/2"	1/2"	2"	1-1/2"	23-1/2"X15-3/4"X 8"DP UNDERMOUNT SINGLE BASIN STAINLESS SINK. FAUCET: PULL-OUT SPRAY, 1.5 GPM, (ADA), 11-1/2" SPOUT REACH, SINGLE HOLE
ПЭ-1,2	FAUCET:	ELKAY LK6000	1/2	1/2		1-1/2	PROVIDE BDT VARIATION BELOW DECK THERMOSTATIC MIXING VALVE (SET WATER TEMP TO 110°F) PROVIDE UNDERCOUNT PIPING INSULATION KIT AS NEEDED.
FS-1	FLOOR SINK	ZURN FD2375 (OR APPROVED EQUAL)	-	-	3"	1-1/2"	ENAMELED CAST IRON, ACID RESISTANT, DOME STRAINER, FULL GRATE, FLUSH MOUNT TO ALLOW FOR MATCH TO ADJACEN SURFACE ELEVATION.
EWH-1,2,3	ELECTRIC WATER HEATER (BELOW COUNTER)	CHRONOMITE R-75L / 208	3/4"	3/4"	-	-	ELECTRIC TANKLESS WATER HEATER. ON DEMAND HOT WATER, FLOW SWITCH ACTIVATES HEATER, HIGH TEMPERATURE LIMIT SWITH WITH AUTOMATIC RESET. 70°F TO 125°F ADJUSTABILITY. PIPE HOT AND COLD WATER LINES TO ASSOCIATED FIXTURE(S). 0.35 GPM MINIMUM OPERATIING FLOW RATE. TEMP RISE: 71°F AT 1.5 GPM DIMENSIONS: 9-7/8" H X 10-5/8" W X 4-1/2" DP. WEIGHT: 10 LBS ELECTRICAL: 208V / 15,600 WATTS, 75 AMPS PROVIDE WITH FACTOR DISCONNECT SWITCH, ROTARY 80A-LOCKABLE, NEMA 4X (2095-4) (SHIPPED LOOSE)

1. ALL FIXTURE FINISHES TO BE REVIEWED BY ARCHITECT PRIOR TO ORDERING. ADA REQUIREMENTS TO BE REVIEWED BY ARCHITECT. 2. REFERENCE ARCHITECTURAL PLANS FOR SCHEDULING OF KITCHEN PLUMBING FIXTURES NOT SHOWN ON THIS SHEET. 3. VERIFY SINK MOUNTING HEIGHTS AND MOUNTING TYPE AND BOWL DEPTH WITH ARCHITECT PRIOR TO ORDERING.

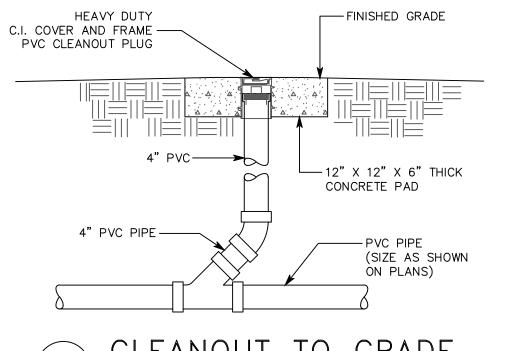




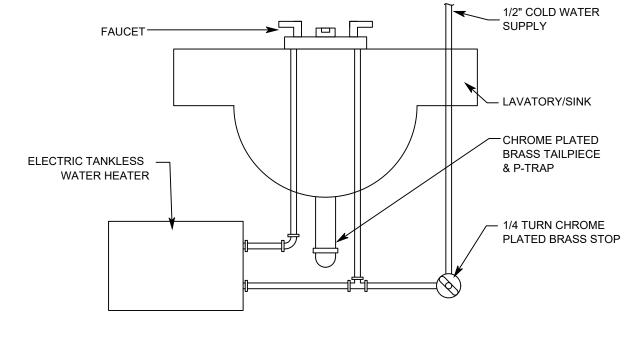




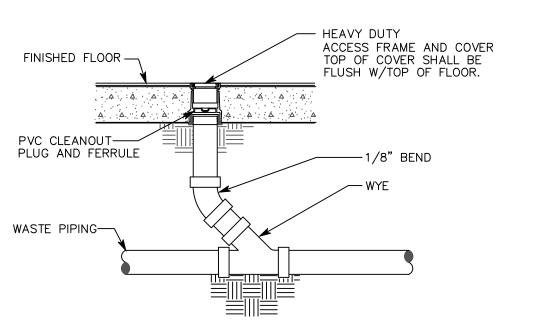




CLEANOUT TO GRADE NO SCALE



ELECTRIC WATER HEATER DETAIL SCALE: NTS (AT LEASING OFFICE AND CLUBHOUSE UNISEX RESTROOM)



FLOOR CLEANOUT

CHROME WALL -COVER AND

PLUGGED TEE —

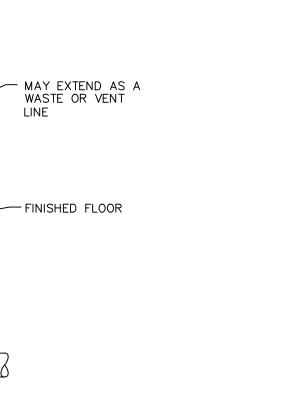
WITH CLEANOUT

1/8" BEND (TYPICAL) -

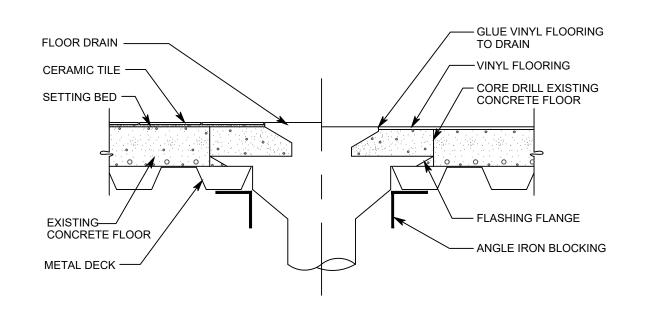
45° WYE (TYPICAL)—

WASTE PIPING-

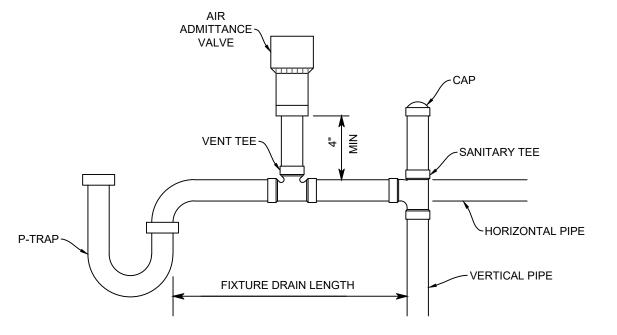
SCREW



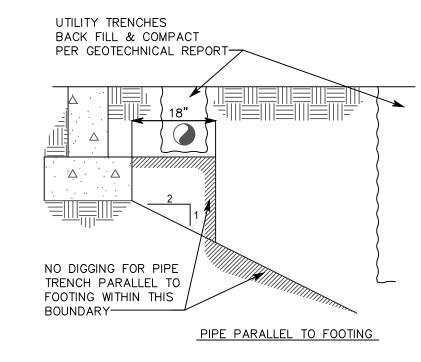
WALL CLEANOUT



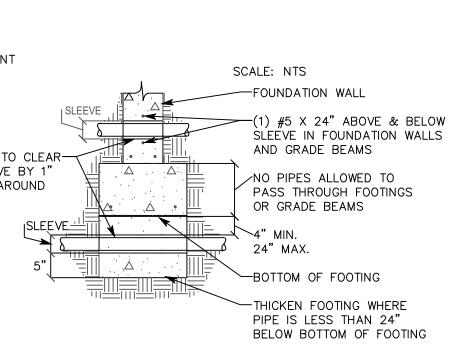
FLOOR DRAIN DETAIL SCALE: NTS



AIR ADMITTANCE VALVE



TYPICAL FOUNDATION WALL REINFORCEMENT NOT SHOWN FOR CLARITY SLEEVE BY 1" ALL AROUND FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION - SEE STRUCTURAL NOTES

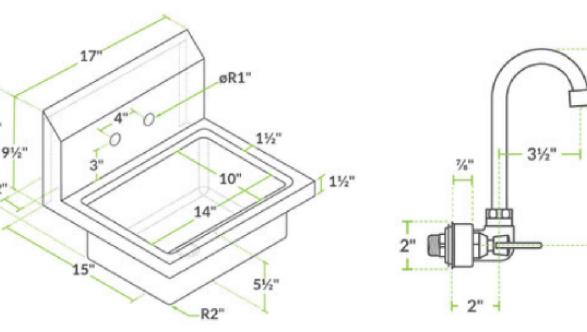


PIPE CROSSING FOOTING/FOUNDATION WALL

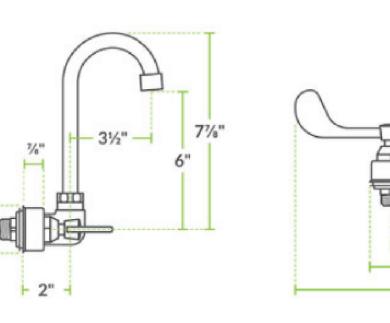
SIDE

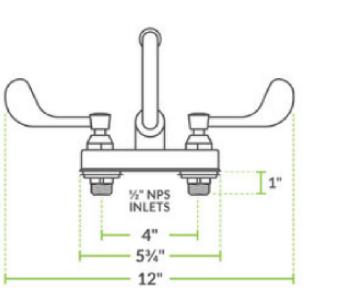
PIPE TRENCHING NO SCALE

FRONT



SINK





REVIEWED FOR CODE COMPLIANCE

Thomas W Peterson

12/05/2024

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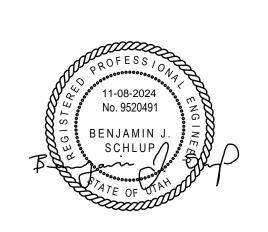
Fairpark Zions Test Kitchen

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Project Status 100% CD Set

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PLUMBING SCHEDULE & DETAILS

P101

	SYMBOLS LEGEND
SYMBOL	
WIRING DE	VICES
	RECEPTACLE, DUPLEX: NEMA 5-20R.
₩ A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
Фс	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
₩w	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
₩ ₩P	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
₩	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
# \$K	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. SWITCH, KEY OPERATED.
· .	E AND LINE SYMBOLS
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
100	KEYNOTE INDICATOR.
$\frac{\underline{}}{\uparrow_1}$	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
\sim	BREAK, ROUND
MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	PROPERTY LINE: DASHED, WIDE LINE. CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
XXX EF-X	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE
X-X 1LA-3	FOR ADDITIONAL INFORMATION. EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE
XXXET #	IN-GRADE PULLBOX INDICATOR. "XXXET" INDICATES LABEL SHOWN ON SCHEDULE. "#" IDENTIFIES SEQUENCE NUMBER SHOWN ON SITE AND RISER DIAGRAM. REFER TO PLANS AND
/IRING ME	EXTERIOR PULLBOX SCHEDULE FOR ADDITIONAL INFORMATION.
/IKING IVIL	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
© 	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
A-1	SINGLE BRANCH CIRCUIT HOME RUN TO PANELBOARD WITH DEDICATED NEUTRAL CONDUCTOR. LETTER AND NUMBER NOTATION IDENTIFY PANEL AND CIRCUIT NUMBER.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE. CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
<u> </u>	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER
(HC)	TO ONE-LINE DIAGRAM. ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	JUNCTION BOX, CEILING.
O _{SC}	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
O _{SP}	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
РВ	PULL BOX.
A"xB" +/-C'-D"	CABLE TRAY ABOVE ACCESSIBLE CEILING. "A" DENOTES CABLE TRAY WIDTH, "B" DENOTES CABLETRAY DEPTH. +/-C'-D" DENOTES CABLE TRAY ELEVATION ABOVE OR BELOW FINISHED SURFACE.
	LADDER RACK.
	CABLE J-HOOKS ABOVE ACCESSIBLE CEILING.
•	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
*	ELECTRIC VEHICLE CHARGING STATION.
EV	GROUND BUSBAR. REFER TO GROUNDING RISER DIAGRAM FOR
TT	ADDITIONAL INFORMATION.

	SYMBOLS LEGEND
SYMBOL	
ELECTRICA	AL POWER AND DISTRIBUTION
225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 225/3 "1H"	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
)225/3 "1H" "1H"	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
JE DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
<u> </u>	EARTH GROUND (ONE-LINE DIAGRAM).
•—————————————————————————————————————	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
M	METER.
Ø	DISCONNECT SWITCH, FUSED.
□	DISCONNECT SWITCH, UNFUSED.
⊠ ъ	STARTER, COMBINATION WITH DISCONNECT SWITCH.
×	STARTER OR MOTOR CONTROLLER.
VZA.	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
LP \$ST	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE. SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD
\$51	PROTECTION.
	TRANSFORMER (SEE ONE-LINE FOR SIZE) ARC ENERGY REDUCTION
a,b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER
\$	"a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS) AL POWER AND DISTRIBUTION
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
\frac{1}{5}	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
5	OVERLOAD RELAY (ONE-LINE DIAGRAM).
Τς	STARTER (ONE-LINE DIAGRAM).
(CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
√ 1	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
(MCP	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
#AF #AT	CIRCUIT BREAKER, ADJUSTABLE TRIP. "225AF" REPRESENTS THE RATING AND "150AT" REPRESENTS THE TRIP SETTING. (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
─	MOTOR.
<u></u>	TRANSFORMER (ONE-LINE DIAGRAM).
"1H"	PANELBOARD (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
)225/3 "1H"	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

- kW KILOWATT kWh KILOWATT HOUR CONDUIT
- LTG LIGHTING LV LOW VOLTAGE SYSTEM ABOVE COUNTER MAX MAXIMUM ARMORED CABLE MC METAL CLAD
- ACS ACCESS CONTROL SYSTEM ADA AMERICANS WITH DISABILITIES ADJ ADJACENT
- ALUM ALUMINUM AMP AMPERE

ABBREVIATIONS

- 1P SINGLE POLE 1PH SINGLE-PHASE 1WAY ONE-WAY 2/C TWO-CONDUCTOR 2WAY TWO-WAY 3/C THREE-CONDUCTOR 3WAY THREE-WAY 4OUT QUADRUPLE RECEPTACLE 4PDT FOUR-POLE DOUBLE THROW 4PST FOUR-POLE SINGLE THROW 4W FOUR-WIRE 4WAY FOUR-WAY
- AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE
- AR AS REQUIRED ASC AMPS SHORT CIRCUIT
- ATS AUTOMATIC TRANSFER AV AUDIO VISUAL AWG AMERICAN WIRE GAGE
- CAT CATEGORY

- TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE

- kVAR KILOVOLT AMPERE REACTIVE LED LIGHT EMITTING DIODE LFMC LIQUID TIGHT FLEXIBLE METAL LFNC LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT LPS LOW PRESSURE SODIUM LRA LOCKED ROTOR AMPS MATV MASTER ANTENNA TELEVISION

- MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MCP MOTOR CIRCUIT PROTECTION MDP MAIN DISTRIBUTION PANEL MG MOTOR GENERATOR MH MANHOLE MIN MINIMUM
- AIC AMPERE INTERRUPTING MLO MAIN LUGS ONLY MOCP MAXIMUM OVERCURRENT ANN ANNUNCIATOR PROTECTION ACCESS POINT (WIRELESS MTS MANUAL TRANSFER SWITCH NA NOT APPLICABLE
- NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- BUCK-BOOST TRANSFORMER NFC NATIONAL FIRE CODE NFPA NATIONAL FIRE PROTECTION BFF BELOW FINISHED FLOOR ASSOCIATION NIC NOT IN CONTRACT BFG BELOW FINISHED GRADE NIGHT LIGHT CEILING MOUNTED NO NORMALLY OPEN
- NTS NOT TO SCALE CATV COMMUNITY ANTENNA TELEVISION OC ON CENTER CB CIRCUIT BREAKER OCP OVER CURRENT PROTECTION CCBA CUSTOM COLOR AS SELECTED OE OWNER ELECTRONICS BY ARCHITECT OF/CI OWNER FURNISHED/ CCTV CLOSED CIRCUIT TELEVISION CONTRACTOR INSTALLED
- CF/CI CONTRACTOR FURNISHED/ OF/OI OWNER FURNISHED/ OWNER CONTRACTOR INSTALLED INSTALLED CF/OI CONTRACTOR FURNISHED/ OFP OBTAIN FROM PLANS OWNER INSTALLED OH DR OVERHEAD (COILING) DOOR CFBA CUSTOM FINISH AS SELECTED OL OVERLOAD BY ARCHITECT
- PB PUSHBUTTON CI CONTACT INDICATOR POWER FACTOR CKT CIRCUIT PH PHASE CM CONSTRUCTION MANAGER PNL PANEL CND CONDUIT PNM PLENUM CO CONVENIENCE OUTLET PR PAIR COR CONTRACTING OFFICER'S PS POWER SUPPLY REPRESENTATIVE POTENTIAL TRANSFORMER
- CP CONTROL PANEL PTZ PAN/TILT/ZOOM CR CARD READER PHOTO VOLTAIC CT CURRENT TRANSFORMER QTY QUANTITY CTV CABLE TELEVISION R REMOVE RCP REFLECTED CEILING PLAN dBA UNIT OF SOUND LEVEL RMC RIGID METAL CONDUIT DPDT DOUBLE POLE, DOUBLE RNC RIGID NONMETAL CONDUIT THROW
- RO REMOTE DOOR OPEN DS DISCONNECT SWITCH RPM REVOLUTIONS PER MINUTE ENHANCED RPP RISER PATCH PANEL REMOVE AND RELOCATE EM EMERGENCY S/S START/STOP EMT ELECTRICAL METALLIC TUBING SCA SHORT CIRCUIT AMPS ENT ELECTRIC NONMETALLIC
- SCBA STANDARD COLOR AS SELECTED BY ARCHITECT EPO EMERGENCY POWER OFF SEC SECURITY EQUIP EQUIPMENT SF SQUARE FOOT (FEET) ER EQUIPMENT ROOM SFBA STANDARD FINISH AS EX EXISTING SELECTED BY ARCHITECT F FURNITURE MOUNTED
- SPD SURGE PROTECTIVE DEVICE FA FIRE ALARM SPDT SINGLE POLE, DOUBLE THROW FCP FIRE ALARM CONTROL PANEL SPEC SPECIFICATION FLA FULL LOAD AMPS SPP STATION PATCH PANEL FMC FLEXIBLE METAL CONDUIT SPST SINGLE POLE, SINGLE THROW FOB FREIGHT ON BOARD ST SINGLE THROW FPP FIBER PATCH PANEL
- SWBD SWITCHBOARD FVNR FULL VOLTAGE SWGR SWITCHGEAR NON-REVERSING TL TWIST LOCK FVR FULL VOLTAGE REVERSING TELEPHONE POLE GEN GENERATOR TWISTED PAIR GFCI GROUND FAULT INTERRUPTER TELECOMMMUNICATIONS GFP GROUND FAULT PROTECTION
- GIG GIGA HERTZ TTB TELEPHONE TERMINAL BOARD GND GROUND TV TELEVISION HD HEAVY DUTY TVSS TRANSIENT VOLTAGE SURGE HID HIGH INTENSITY DISCHARGE SUPPRESSER HOA HAND-OFF-AUTOMATIC TYP TYPICAL HP HORSE POWER UF UNDERFLOOR
- HPF HIGH POWER FACTOR UGND UNDERGROUND HPS HIGH PRESSURE SODIUM UPS UNINTERRUPTIBLE POWER HV HIGH VOLTAGE SUPPLY HWM HORIZONTAL WIRE V VOLTS MANAGEMENT VA VOLT AMPERE

kVA KILOVOLT AMPERE

- HZ HERTZ VFC/VF VARIABLE FREQUENCY MOTOR INPUT/ OUTPUT D CONTROLLER ISOLATED GROUND VIC VIDEO INTERCOM SYSTEM IMC INTERMEDIATE METAL VSS VIDEO SURVEILLANCE SYSTEM CONDUIT
- VWM VERTICAL WIRE MANAGEMENT IN/IS INSULATED/ ISOLATED W/ WITH IR INFRARED W/O WITHOUT J-BOX JUNCTION BOX WP WEATHERPROOF kV KILOVOLT WPP WIRELESS PATCH PANEL

DEFINITIONS

XFMR TRANSFORMER

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE

THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY

THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS." INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT

SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION,

PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING,

CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

OPERATIONS THEY ARE ENGAGED TO PERFORM.

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR

GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE
 - INCLUDED IN THE CONTRACT SUM.
 - A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
 - B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
 - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- DISCREPANCIES TO THE ARCHITECT AND ENGINEER. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES

ELECTRICAL SHEET INDEX

Approval Stamp

REVIEWED FOR

CODE COMPLIANCE

Tom ten Thomas W Peterson 12/05/2024

- EE001 ELECTRICAL COVER SHEET EE501 ELECTRICAL DETAILS EE701 TYPICAL MOUNTING DETAILS EP100 LEVEL 1 POWER PLAN - OVERALL
- EP101 LEVEL 1 POWER PLAN EP601 ELECTRICAL SCHEDULES

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Consultant

client name

Kitchen

Enter address here

Fairpark Zions Test

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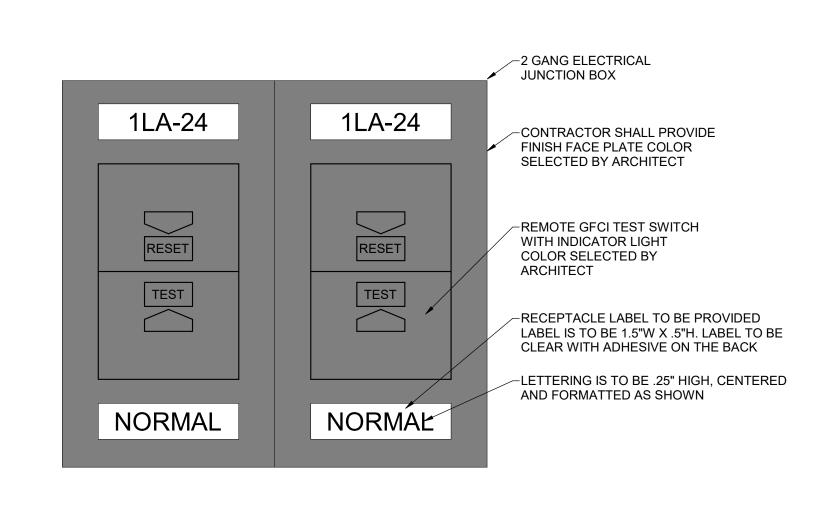


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ELECTRICAL COVER SHEET

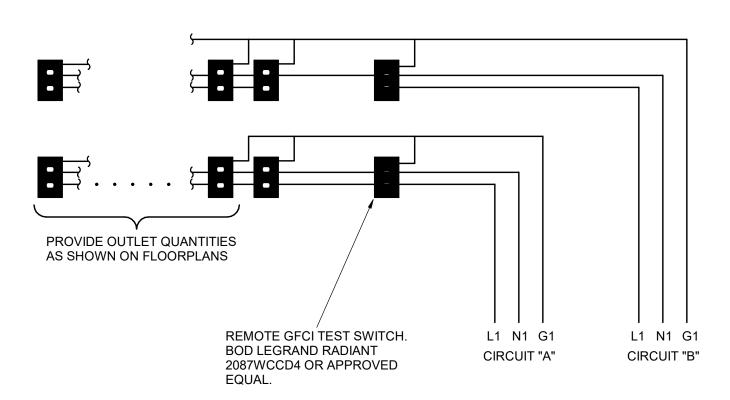
Sheet Number

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/240559 - Elec Central.rvt



6 LAB RECEPTACLE DETAIL

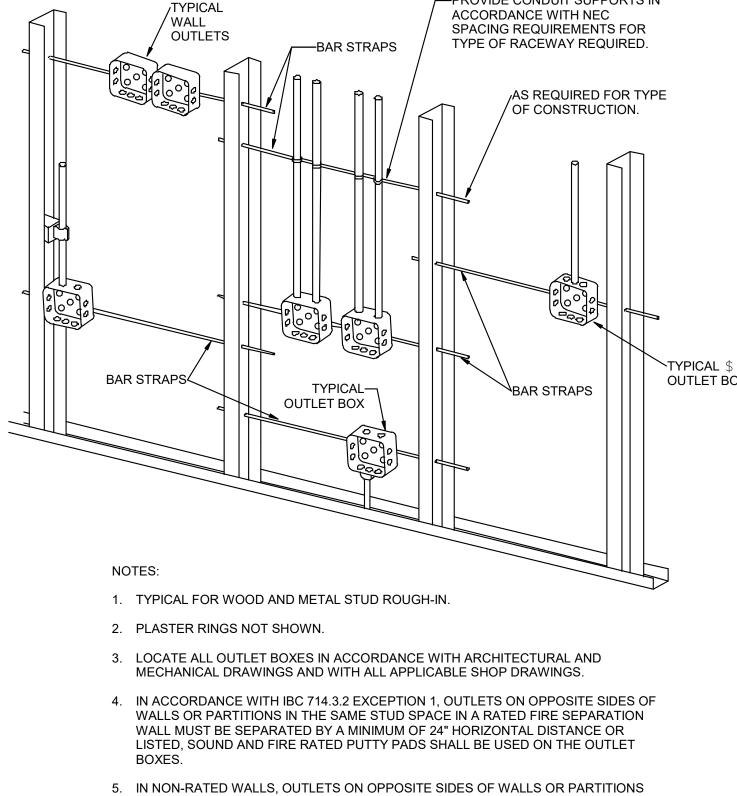
SCALE: 1/8" = 1'-0"



TYPICAL COOKING STATION REMOTE GFCI TEST SWITCH WIRING DIAGRAM

SCALE: NTS

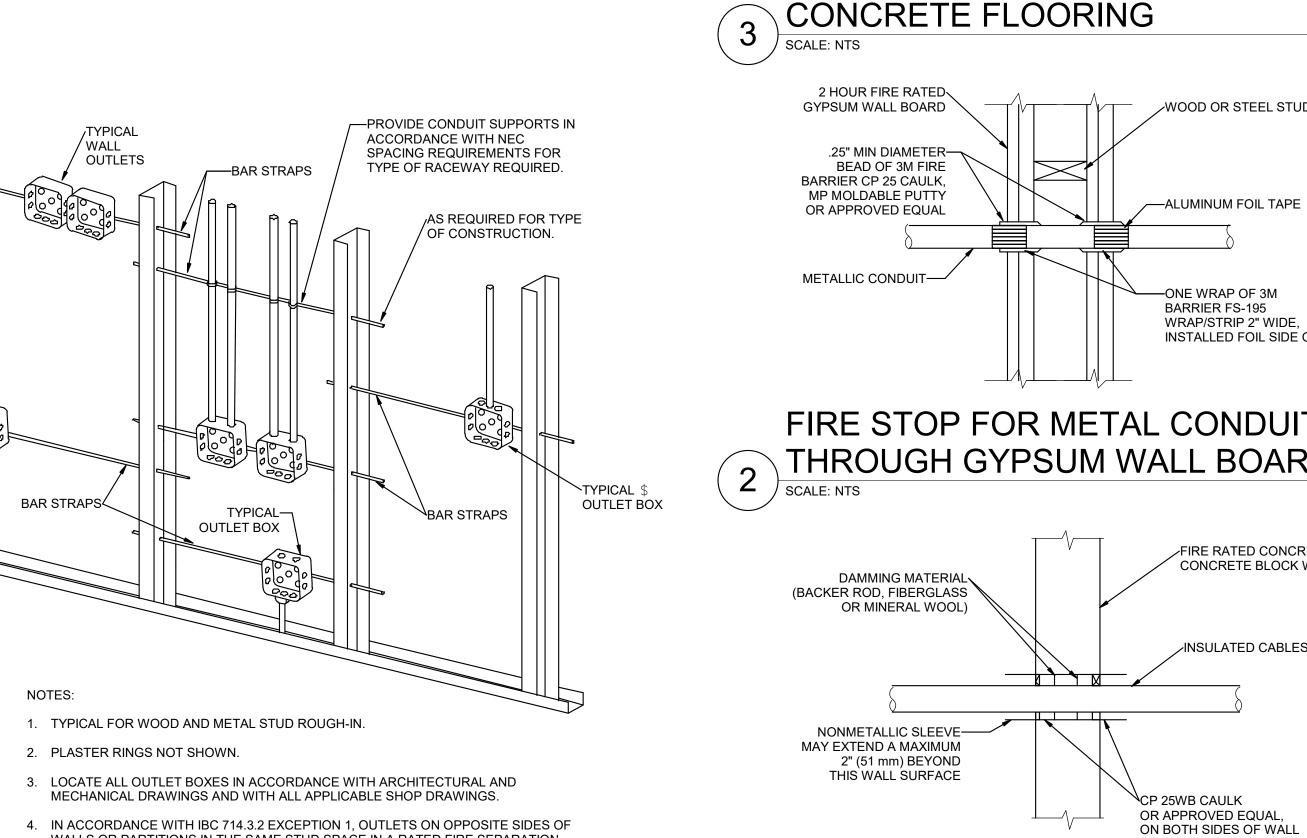
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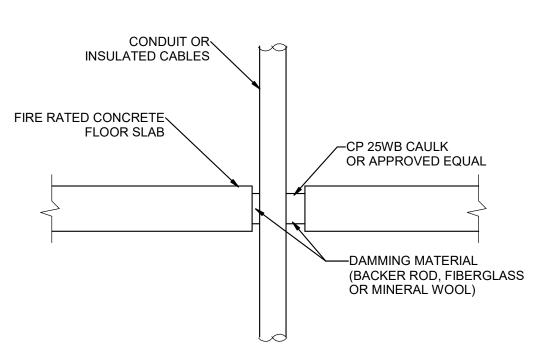


MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

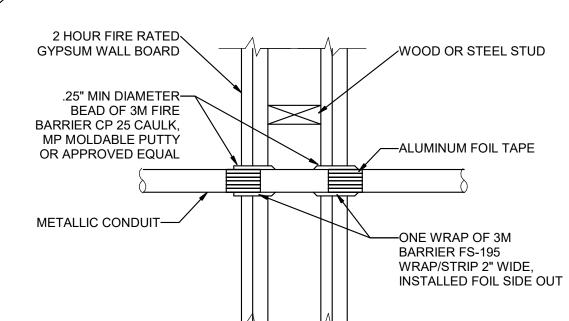
TYPICAL ROUGH-IN REQUIREMENTS DETAIL

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

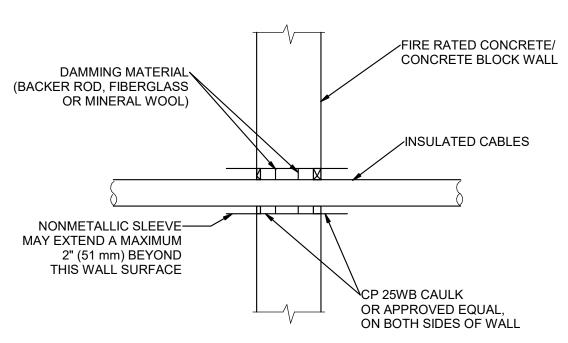




TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING



FIRE STOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD



TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS 1 SCALE: NTS



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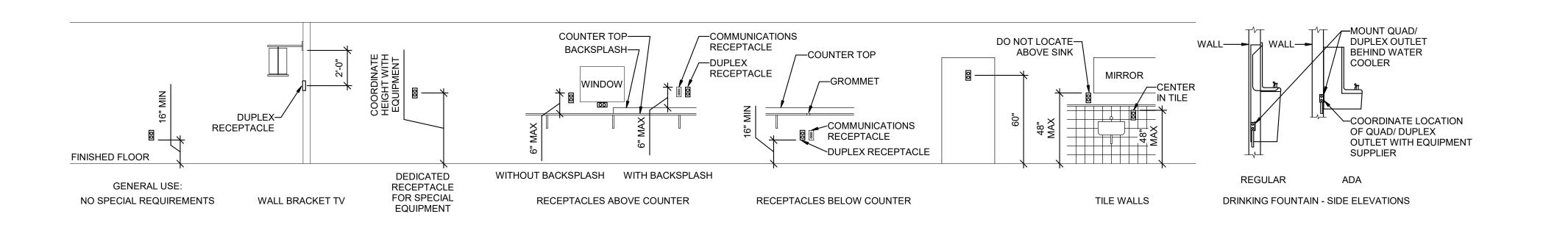
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ELECTRICAL DETAILS

EE501



RECEPTACLE MOUNTING DETAILS SCALE: NTS

FIRE ALARM MOUNTING DETAILS

SCALE: NTS

FRAME

LOCATION

DOOR WITH SIDELIGHT

LESS THAN 2'

GREATER

THAN 2'

LOCATION

DOOR WITH SIDELIGHT

GREATER THAN 2'

/ FRAME

CABINETS

SWITCH-

DOOR WITH NO

PLACE FOR SWITCH

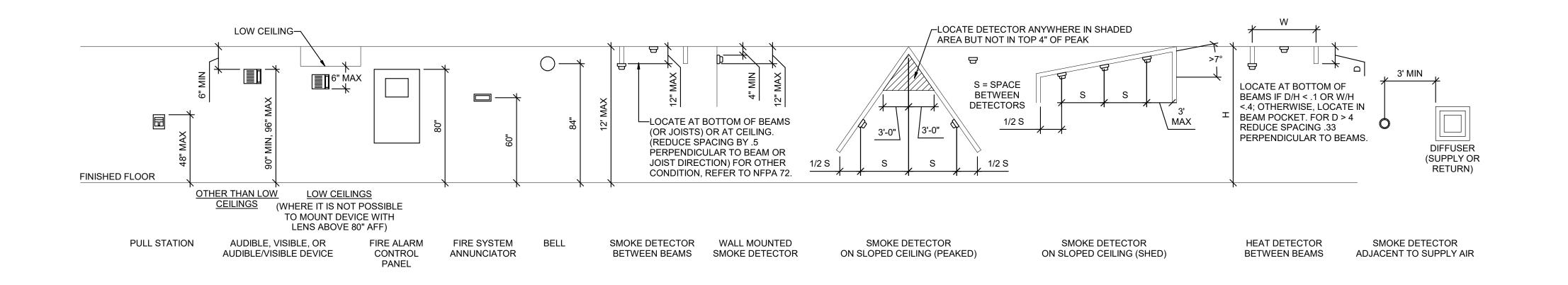
AT LATCH SIDE

LOCATION

FINISHED FLOOR

GENERAL

USE: ADA



COMBINATION 48" MAX

RECEPTACLE IN

RESIDENTIAL BATHROOM

PLATE FOR SWITCH AND CONTROL STATION

GENERAL SHEET NOTES

- 1 MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
- A ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - B EQUIPMENT SHOP DRAWINGS.
 - C FIELD INSTRUCTIONS.
- 2 LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- 3 MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- 5 SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- 8 LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
- 9 WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

COMMUNICATIONS RECEPTACLE

_COUNTER TOP



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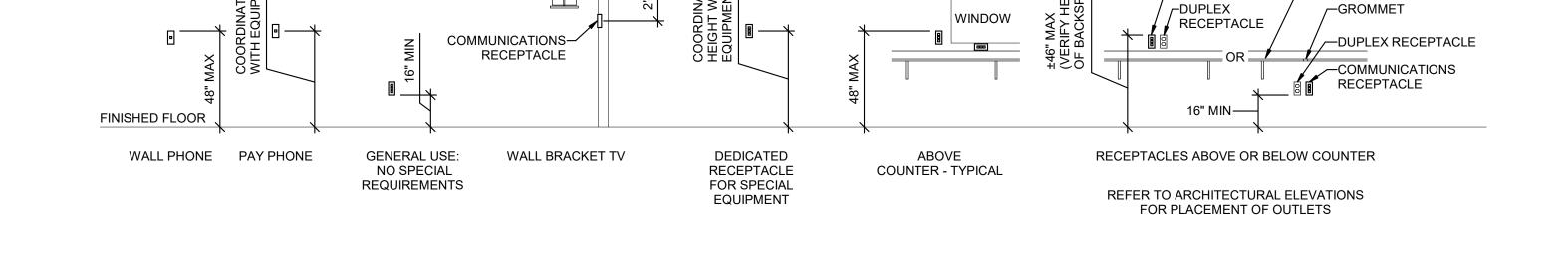
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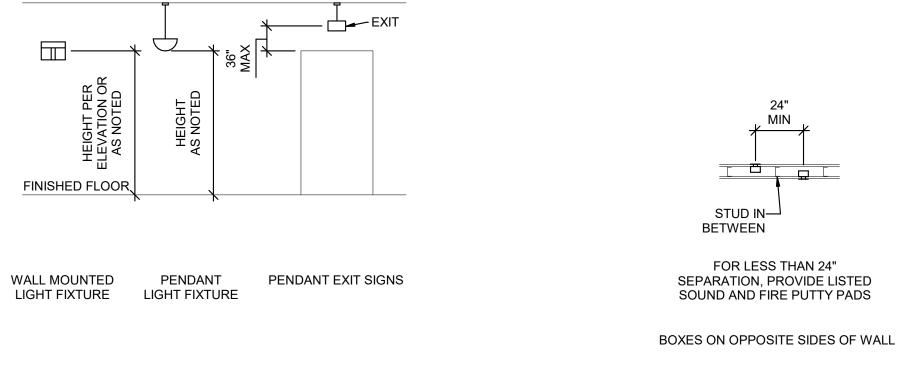
SWITCH MOUNTING DETAILS SCALE: NTS

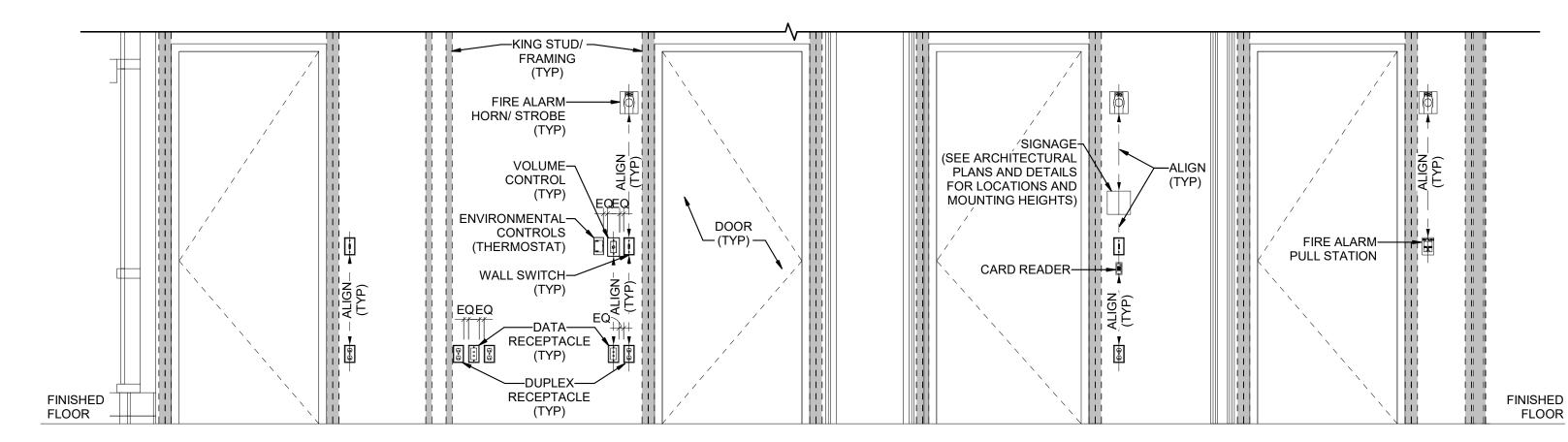
LESS THAN 2'

LOCATION

STANDARD DOOR







B2 LIGHTING MOUNTING DETAILS
SCALE: NTS

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/240559 - Elec Central.rvt

B3 BOX MOUNTING DETAILS
SCALE: NTS

TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL

Project Number 24028
Original Issue Issue Date
Project Status Design Development

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Stamp



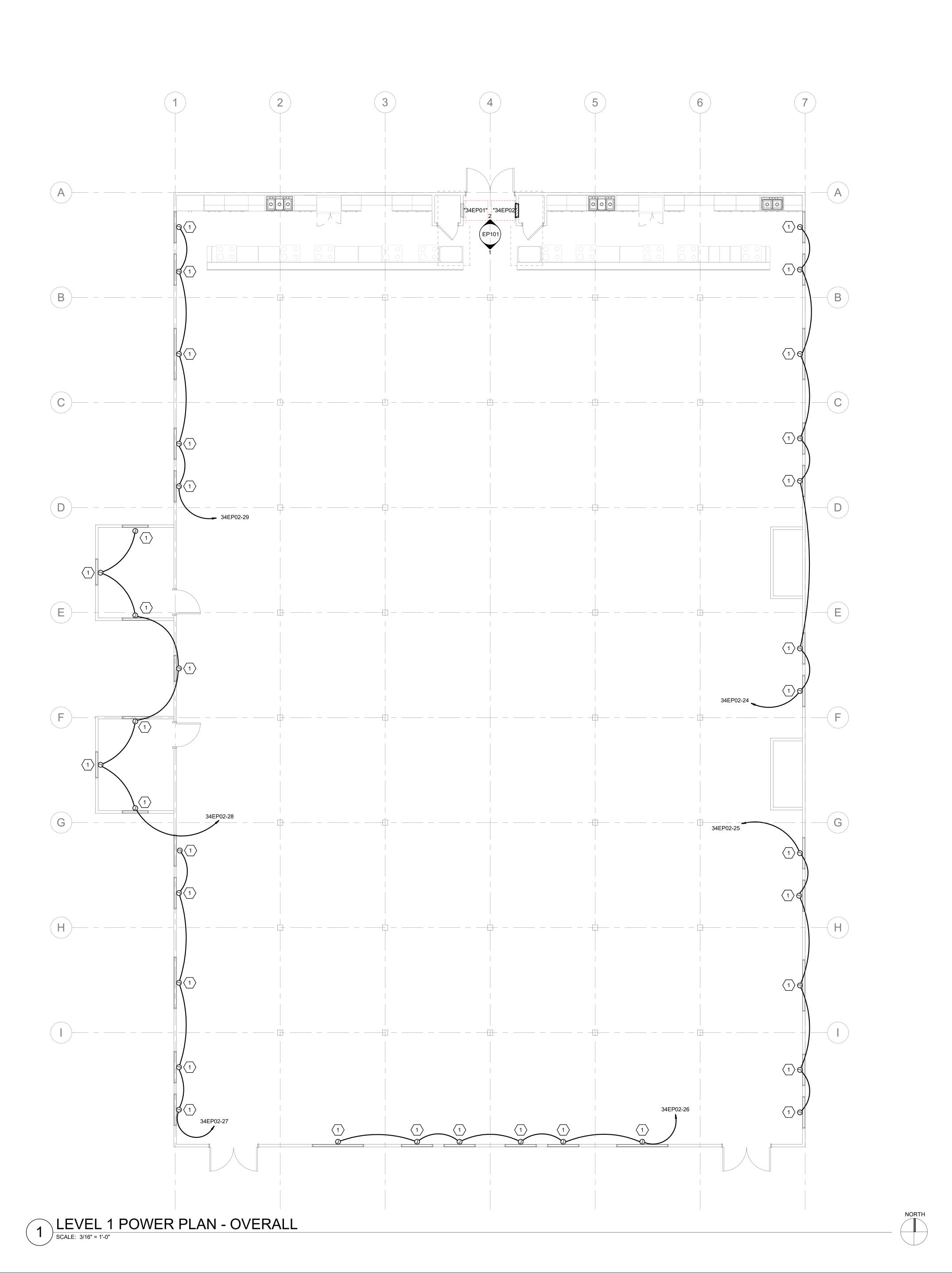
neet Title

TYPICAL MOUNTING DETAILS

t Number

REVIEWED FOR CODE COMPLIANCE

Thomas W Peterson
12/05/2024
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT



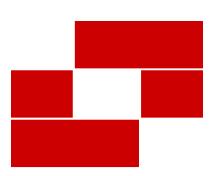
Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/240559 - Elec Central.rvt

GENERAL SHEET NOTES

- CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.
- ALL RACEWAYS SHALL BE CONCEALED IN WALLS, FLOORS, AND CEILING UNLESS OTHERWISE NOTED. INSTANCES WHERE EXPOSED OR SURFACE MOUNTED RACEWAYS IS REQUIRED A ROUTING SKETCH SHALL BE PROVIDED TO ARCHITECT AND ENGINEER. RACEWAY TYPE SHALL BE SELECTED BY ENGINEER. FINISH OF RACEWAY SHALL BE SELECTED BY ARCHITECT.
- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANEL FOR ALL NEW CIRCUITS. FIELD VERIFY PANELBOARD TYPE AND BREAKER TYPE.
- 4 ALL LIGHT FIXTURES THAT PENETRATE FIRE RATED SURFACE/ASSEMBLY SHALL BE IN A FIRE RATED ENCLOSURE OR BE PROVIDED WITH A FIRE RATED ASSEMBLY (LISTED PUTTY PADS) TO MAINTAIN A FIRE RATING OF SURFACE
- 5 INSTALL LIGHT FIXTURES INLINE AND CENTERED.
- 6 ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES.
- THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.

○ SHEET KEYNOTES

PROVIDE ALL ELECTRICAL CONNECTIONS TO MOTORIZED SHADES. PROVIDE ALL ROUGH-IN, CABLING, AND TERMINATIONS FOR ALL CONTROLS PER MANUFACTURERS SPECIFICATIONS.



Babcock Design

Salt Lake City 52 Exchange Place Salt Lake City, UT 84111 801.531.1144

800 W Main Street, Suite 940 Boise, ID 83702 208.424.7675

babcock**design**.com

client name

Fairpark Zions Test Kitchen

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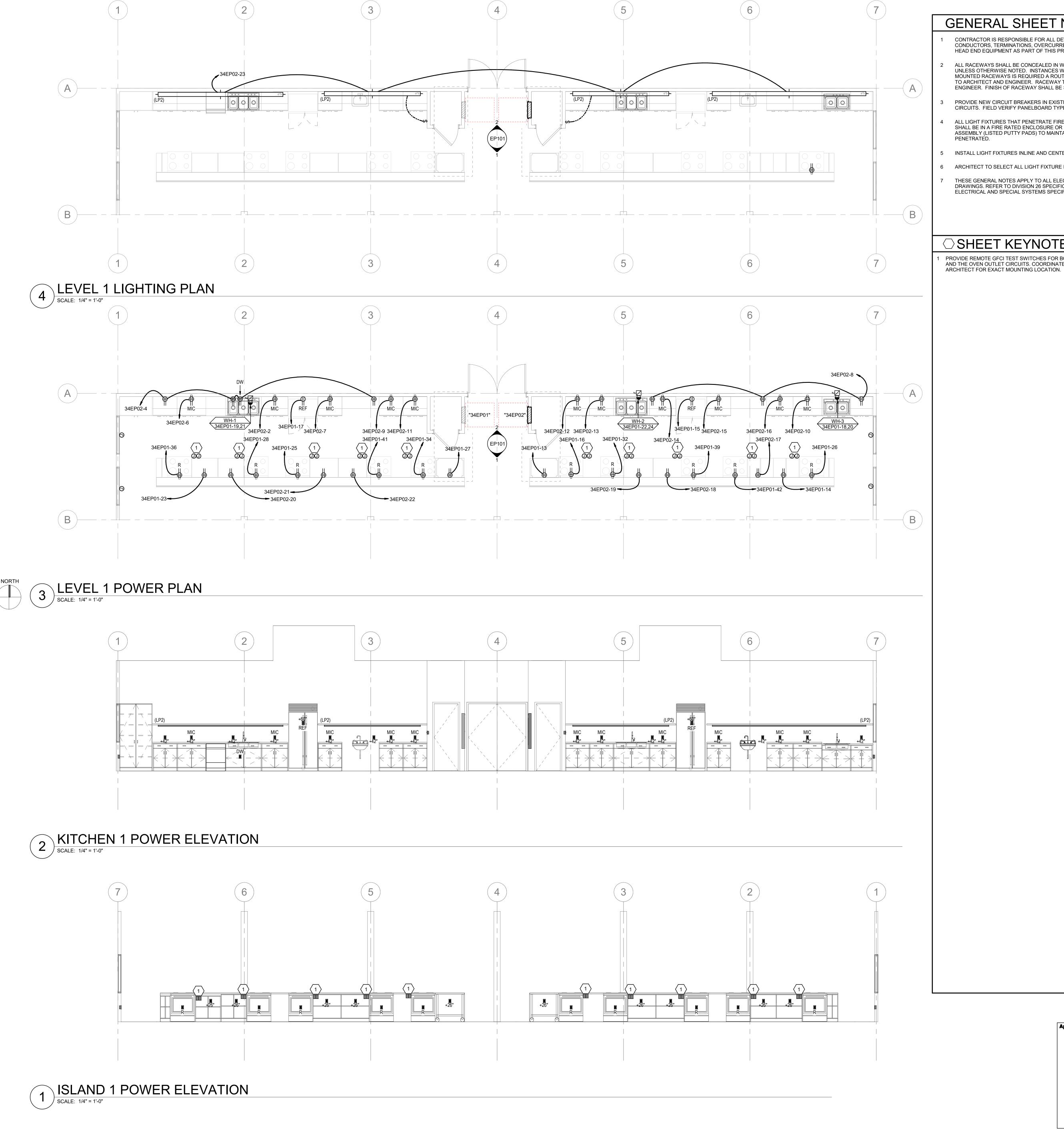


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Thomas W Peterson

LEVEL 1 POWER PLAN - OVERALL

EP100



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- CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.
- ALL RACEWAYS SHALL BE CONCEALED IN WALLS, FLOORS, AND CEILING UNLESS OTHERWISE NOTED. INSTANCES WHERE EXPOSED OR SURFACE
- MOUNTED RACEWAYS IS REQUIRED A ROUTING SKETCH SHALL BE PROVIDED TO ARCHITECT AND ENGINEER. RACEWAY TYPE SHALL BE SELECTED BY ENGINEER. FINISH OF RACEWAY SHALL BE SELECTED BY ARCHITECT.
- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANEL FOR ALL NEW CIRCUITS. FIELD VERIFY PANELBOARD TYPE AND BREAKER TYPE.
- 4 ALL LIGHT FIXTURES THAT PENETRATE FIRE RATED SURFACE/ASSEMBLY SHALL BE IN A FIRE RATED ENCLOSURE OR BE PROVIDED WITH A FIRE RATED ASSEMBLY (LISTED PUTTY PADS) TO MAINTAIN A FIRE RATING OF SURFACE
- 5 INSTALL LIGHT FIXTURES INLINE AND CENTERED.
- 6 ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES.
- THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.

⇒ SHEET KEYNOTES

PROVIDE REMOTE GFCI TEST SWITCHES FOR BOTH THE UNDER COUNTER OUTLET AND THE OVEN OUTLET CIRCUITS. COORDINATE WITH MILLWORK PROVIDER AND

client name

Fairpark Zions Test Kitchen

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12/05/2024

LEVEL 1 POWER PLAN

EP101

								E	EQUIPMEN	T SCH	HEDULE	=						
EQUIPMENT S	SCHEDULE	KEY	NOTES	3 :						GENERAL NO	TES:							
E - DIVISION 2 Q - FURNISHE		QUIPMENT, INSTALLED BY DIV.26	FOR 2. PRO' SHUI 3. INDC	ATC/BA VIDE FU NT TRIP	S CONTF SED DIS	ROL. CONNE	CT ELE	/ATOR F	L OVERLOAD AND RELAY POWER MODULE WITH PROVIDE DISCONNECTS	SERVING, A 2. CONTRACT PROTECTION 3. ELECTRICA PRIOR TO E 4. ELECTRICA	ND COMPLIES WI OR SHALL BE RES ON IN ACCORDANG L CONTRACTOR S BID.	TH N.E.C. REQ SPONSIBLE TO CE WITH THE M SHALL REVIEW SHALL REVIEW	JIRED CLEARA COORDINATE IANUFACTURE OTHER DIVISION	NCES. AND SIZE FEEDE R'S RECOMMEND ON DRAWINGS FO ON SUBMITTALS I	R, STARTER, D DATIONS OF AC DR ANY ADDITI FOR ANY EQUI	DISCONNECTUAL EQUI ONAL REQU PMENT REQ	E EQUIPMENT IT IS I AND OVERCURREN PMENT SUPPLIED. IIREMENTS UIRING CONNECTIO	
					LOAD	DATA	<u> </u>			0	CPD	DISCO	NNECT	MOTOR	R CONTROL	LER	NEMA	
LABEL	QTY	DESCRIPTION	НР		LOAD		V	PH	WIRE AND CONDUIT SIZE	DEVICE		DISCO PROVIDED BY		MOTOR PROVIDED BY	R CONTROL DEVICE	LER	NEMA ENCLOSURE RATING	NOTES
LABEL WH-1	QTY 1	DESCRIPTION ELECTRIC TANKLESS WATER HEATER	HP		MCA			PH 2				PROVIDED		PROVIDED			ENCLOSURE	NOTE
	QTY 1 1	ELECTRIC TANKLESS		kW	MCA -	FLA	V		CONDUIT SIZE 2 #2, #8 GR	DEVICE 90/2	FED FROM	PROVIDED BY	DEVICE	PROVIDED BY	DEVICE	SIZES	ENCLOSURE	NOTES

ELECTRICAL FIXTURE SCHEDULE								
EQUIPMENT SCHEDULE KEY E - DIVISION 26 Q - FURNISHED WITH EQUIPMENT * - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER ** - AUTOMATIC CONTROL WIRING BY DIVISION 23	NOTES: 1. NEMA 3R 2. TOGGLE SWITCH W/ THERMAL OVERLOAD 3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP 4. CONTRACTOR TO PERFORM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS 5. TOGGLE SWITCH W/BACNET INTERFACE. 6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH. 7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY. 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR." 9. LINE VOLTAGE THERMOSTAT ON WALL. 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS. 11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANDLER. 12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.							

			MOUNTING					LOAD DATA		CONNECTION TYPE		
ITEM NO.	QTY	DESCRIPTION	HEIGHT (AFF)	VOLT	PHASE	AMPS	kW	HP	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	ELECTRICAL REMARKS
MIC	11	MICROWAVE	+42"	120	1	13	1.6	-	2#12, 12GR 0.75" CND	Е	NEMA 5-20	
OVN	10	OVEN	+18"	120	1	10	1.2	-	2#12, 12GR 0.75" CND	E	NEMA 5-20	
SHADES	35	MOTORIZED SHADE CONTROLS	<varies></varies>	120	1	2	0.2	-	2#12, 12GR 0.75" CND	Е	NEMA 5-20	

			DULE NUMI		<u> </u>	<u> </u>	<u>EDL</u>	<u> </u>	
**	-	SUBSO	CRIPT (NOT	TE 5)		(E.G	6.)[5] IG		
CVM	AMP	HH AMPS	CONDUIT	CONDU	JCTOR (I		IG/HH	C.E.	NOTES
SYM (1)	20	AIVIF 3	.75	2	12	G 12	12	SE 8	NOTES 2
(2)	20	-	.75	3	12	12	12	8	2,3
<u>3</u>	20	24	.75	4	12	12	12	8	2,3
4	30	-	.75	2	10	10	10	8	2
5	30	•	.75	3	10	10	10	8	2
9	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55 55	-	1	2	6	10	8	4	2
11 (12)	55 55	- 60	1 1.25	3	6	10 10	8	4	2
13	70	-	1.25	2	4	8	4	2	2
(14)	70	_	1.25	3	4	8	4	2	2
15)	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85		1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1 1/2	6	2	2	2
23 24)	150	- 400	2	3	1/0	6	2	1/0	2
25	150	136	2	•	1/0	6	2	1/0	ļ -
26	175 175	156	2	3 4	2/0 2/0	6	2	2/0 2/0	2
27)	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	•	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
<u>35</u>	380	-	3.50	3	500	3	3/0	3/0	2
<u>36</u>	380	344	4 2 E A 2	4	500	3	3/0	3/0	2
<u>37</u> 38	400 400	360	2 EA 2 2 EA 2.50	3 4	3/0 3/0	3	3/0 3/0	3/0 3/0	2
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
41	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
<u>49</u> 50	1140 1140	- 1032	3 EA 4 3 EA 4	3 4	500 500	3/0 3/0	4/0 4/0	3/0 3/0	4
51)	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
52 52	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
(E-3)	4180	3784	11 EA 4	4	500	500	500	500	4
<u>57</u>)									
58	1200	-	5 EA 4	-	-	-	-	-	6
		-	5 EA 4 10 EA 6 10 EA 4	-	-	-	-	-	6 6

CONDUCTOR AND CONDUIT SCHEDULE NOTES

CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS

AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS

PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING

GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE

"CI": PROVIDE CIRCUIT INTEGRITY CABLE; TYPE TWO-HOUR FIRE

BE SAME SIZE AS THE PHASE CONDUCTORS.

GROUNDING CONDUCTOR.

CONDUCTOR.

"2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR

PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #1/0 OR LARGER. INCLUDE A SINGLE 200% RATED CONDUCTOR THAT IS

TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL

RESISTIVE CABLES IN CONDUIT OR PROVIDE FEEDER ENCASED IN

CONDUCTOR WHERE THE CONDUCTOR IS BELOW #1/0 IN SIZE.

"FG" FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO

"HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR"

ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT

SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND

LOADS. CURRENT CARRYING CONDUCTORS DERATED

"IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR)

COMPUTERS.

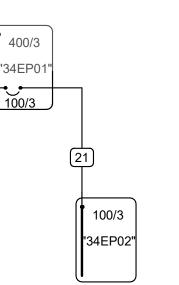
CONDUCTORS.

SYMBOL SUBSCRIPTS:

PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN

1-LINE SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR
- PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C).



ONE-LINE DIAGRAM - KITCHEN

Original drawing is 30" x 42" Autodesk Docs://24028 - Zion Test Kitchen/240559 - Elec Central.rvt

"MC": PROVIDE FEEDER IN METAL-CLAD CABLE; TYPE MC IN PLACE OF SINGLE CONDUCTORS IN CONDUIT. "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.

"SER": PROVIDE SERVICE-ENTRANCE CABLE; TYPE SE OR SER IN PLACE OF SINGLE CONDUCTORS IN CONDUIT. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

VOLTS/PHASE/WIRE: PANEL SIZ			ZE & TYPE:	ГҮРЕ:			FED FROM:			CABINET:	LOCATION:		NC	TES:									
120/208V, 3 PH 4 WIRE 22" W		W x 6"	" D, BOLT-ON 400 AMPERE MAII			N CB					RECESSED												
ACCE	SSOR	IES:			PAN	IEL DII	RECTORY, IDENTI	FICATION, GROUN	IDING	BAR						AIC	RATIN	IG: 22,	,000				
CKT OCP		LOAD (kVA)				PH/				ASE LOAD						LOAD (kVA)			ОСР				
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCF	RIPTION	/	4	E	3	C	;	DESCRIPTION		CO	PWR	LTG	BKR	POLE	AMP	NO
1	100	3		0.3	22.8	2.3	PANEL	34EP02	10.1	1.6					(EX) NW TRACK LIGHTS		0.0	0.0	0.0		1	20	2
3							_				10.5	1.6			(EX) NE TR	ACK LIGHTS	0.0	0.0	0.0		1	20	4
5							-						8.5	1.6	(EX) NS E>	(HAUST FAN	0.0	0.0	0.0		1	20	6
7	20	1		0.0	0.0	0.0	(EX) NE ROW 1 I	KITCHEN LIGHTS	1.6	1.6					(EX) COUNTER T	OP LIGHTS NORTH	0.0	0.0	0.0		1	20	8
9	20	1		0.0	0.0	0.0	(EX) FIRE RISER	CLOSET OUTLET			0.0	0.0			(EX) FIF	RE RISER	0.0	0.0	0.0		2	30	10
11	20	1		0.0	0.0	0.0	(EX) NE/NW	DISPOSALS					0.0	0.0									12
13	20	1		0.0	0.0	0.2	NE COUNTER	R TOP OUTLET	0.2	0.2					NE RANGE	OUTLETS 4-5	0.2	0.0	0.0		1	20	14
15	20	1		0.0	0.8	0.0	EAST REFF	RIGERATOR			0.8	1.2			NE R	ANGE 1	0.0	1.2	0.0		1	20	16
17	20	1		0.0	0.8	0.0	WEST REF	RIGERATOR					8.0	7.8	W	′H-3	0.0	15.6	0.0		2	90	18
19	90	2		0.0	15.6	0.0	WI	H-1	7.8	7.8													20
21							-				7.8	7.8			W	′H-2	0.0	15.6	0.0		2	90	22
23	20	1		0.0	0.0	0.2		R TOP OUTLET					0.2	7.8									24
25	20	1		0.0	1.2	0.0		ANGE 3	1.2	1.2					NE R	ANGE 5	0.0	1.2	0.0		1	20	26
27	20	1		0.0	0.0	0.2	NW COUNTER	R TOP OUTLET			0.2	1.2			NW R	ANGE 4	0.0	1.2	0.0		1	20	28
29	20	1		0.0	0.0	0.0	(EX) NW M	ICROWAVE					1.6	1.6	(EX) NE M	ICROWAVE	0.0	0.0	0.0		1	20	30
31	50	2		0.0	0.0	0.0	WOMEN'S RR V	VATER HEATER	5.0	1.2						ANGE 2	0.0	1.2	0.0		1	20	32
33							-	-			5.0	1.2			NW R	ANGE 1	0.0	1.2	0.0		1	20	34
35	20	1		0.0	0.0	0.0	RAIN	BIRD					1.2	1.2	NW R	ANGE 5	0.0	1.2	0.0		1	20	36
37	20	1		0.0	0.0	0.0	SP/	ARE	0.0	0.0						ARE	0.0	0.0	0.0		1	20	38
39	20	1		0.0	1.2	0.0	NE RA				1.2	0.0				ARE	0.0	0.0	0.0		1	20	40
41	20	1		0.0	1.2	0.0	NW RA	ANGE 2					1.2	1.2	NE R	ANGE 4	0.0	1.2	0.0		1	20	42
TOTALS:					CONNECTED kVA PER PHASE			40 38		8	35		CONNECTED TOTAL kVA =				<va =<="" td=""><td colspan="4">113</td></va>	113					
							CONNECTED A	33	34	325 289		39	AVERAGE CONNECTED AMPS PER PHASE =				313						

NEC DIVERSIFIED LOAD CALCULATIONS

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: 0.3 kVA @ 125% = 0.4 kVA

DESCRIPTION

(LP2) DESCRIPTION: FLUSH LENS LINEAR

NOTES WATTS AND LUMENS ARE PER FOOT

MOUNTING: WALL

OPTICS: DIRECT

FINISH: SCBA

EXISTING PANEL IS TYPE SEIMANS TYPE I-E-T. EXISTING CIRCUITS SHOWN AS HALF TONE

LIGHTING & CONTINUOUS LOADS: 0.3 kVA @ 125% = 0.4 kVA DIVERSIFIED TOTAL kVA = 106 - 100% CONNECTED LOAD PLUS 25% RECEPTACLES: 3.1 kVA @ 100% = 3.1 kVA - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = 295 MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH ALL OTHER LOADS @ 100%: 76.8 kVA LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI, EX=EXISTING

	NEW PANEL: "34EP02"																					
VOLTS/PHASE/WIRE: PANEL SIZ					PAN	EL SI	ZE & TYPE: MAIN SIZE AND	TYPE:	YPE:			FED FROM:		CABINET: LOCATION:			NC	OTES:				
120/208V, 3 PH 4 WIRE 22" W			22" \	N x 6"	D, BOLT-ON 100 AMPERE MA	IN LU	N LUGS			34EP01		RECESSED										
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION					RECTORY, IDENTIFICATION, GROU	NDING BAR							AIC	AIC RATING: 22,000								
CKT OCP LOAD (k)				LO	AD (k	VA)		PHASE LOAD				D			LOAD (kV			VA)	A) OCP			СКТ
NO	AMP	POLE	BKR			CO	DESCRIPTION	1	A		3	_	<u> </u>	DESCRIPTION			CO PWR LTG		BKR		АМР	NO
1	20	1		0.0	0.0	0.0	(EX) NW ROW 2 KITCHEN LIGHTS	1.2	1.6					MICROWAVE		0.0	1.6	0.0		1	20	2
3	20	1		0.0	0.0	0.0	(EX) NE ROW 2 KITCHEN LIGHTS			1.2	0.7			NW COUNTER T		0.7	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.0	(EX) NW ROW 1 KITCHEN LIGHTS					1.2	1.6	MICRO	DWAVE	0.0	1.6	0.0		1	20	6
7	20	1		0.0	1.6	0.0	MICROWAVE	1.6	0.5					NE COUNTER TO	OP OUTLETS 1-3	0.5	0.0	0.0		1	20	8
9	20	1		0.0	1.6	0.0	MICROWAVE			1.6	1.6			MICRO)WAVE	0.0	1.6	0.0		1	20	10
11	20	1		0.0	1.6	0.0	MICROWAVE					1.6	1.6	MICRO)WAVE	0.0	1.6	0.0		1	20	12
13	20	1		0.0	1.6	0.0	MICROWAVE	1.6	1.6					MICRO)WAVE	0.0	1.6	0.0		1	20	14
15	20	1		0.0	1.6	0.0	MICROWAVE			1.6	1.6			MICRO	DWAVE	0.0	1.6	0.0		1	20	16
17	20	1		0.0	0.0	0.2	NE COUNTER TOP OUTLET					0.2	0.2	NE COUNTER	TOP OUTLET	0.2	0.0	0.0		1	20	18
19	20	1		0.0	0.0	0.2	NE COUNTER TOP OUTLET	0.2	0.2					NW COUNTER	R TOP OUTLET	0.2	0.0	0.0		1	20	20
21	20	1		0.0	0.0	0.2	NW COUNTER TOP OUTLET			0.2	0.2			NW COUNTER	R TOP OUTLET	0.2	0.0	0.0		1	20	22
23	20	1		0.3	0.0	0.0	UNDER CABINET LTG					0.3	1.1	EAST MOTORIZED	SHADE CONTROLS	0.0	1.1	0.0		1	20	24
25	20	1		0.0	0.8	0.0	EAST MOTORIZED SHADE	0.8	0.9					SOUTH MOTOR	RIZED SHADES	0.0	0.9	0.0		1	20	26
27	20	1		0.0	0.8	0.0	WEST MOTORIZED SHADE			0.8	1.1			WEST MOTOR	RIZED SHADE	0.0	1.1	0.0		1	20	28
29	20	1		0.0	0.8	0.0	WEST MOTORIZED SHADE					8.0	0.0	SPA	ARE	0.0	0.0	0.0		1	20	30
31	20	1	1	0.0	0.0	0.0	SPARE	0.0	0.0					SPA	ARE	0.0	0.0	0.0		1	20	32
33	20	1		0.0	0.0	0.0	SPARE			0.0	0.0			SPA	ARE	0.0	0.0	0.0		1	20	34
35	20	1		0.0	0.0	0.0	SPARE					0.0	0.0	SPA	ARE	0.0	0.0	0.0		1	20	36
37	20	1		0.0	0.0	0.0	SPARE	0.0	0.0					SPA	ARE	0.0	0.0	0.0		1	20	38
39	20	1	-	0.0	0.0	0.0	SPARE			0.0	0.0			SPA	ARE	0.0	0.0	0.0		1	20	40
41	20	1		0.0	0.0	0.0	SPARE					0.0	0.0	SPA	ARE	0.0	0.0	0.0		1	20	42
TOTALS:							CONNECTED KVA PER PHASE	HASE 10			0	9)	CONNECTED TOTAL kVA = 29								
							CONNECTED AMPS PER PHASE	ED AMPS PER PHASE 87			89 71			AVERAGE CONNECTED AMPS PER PHASE = 81								

RECEPTACLES: 2.3 kVA @ 100% = 2.3 kVA - FIRST 10kVA @ 100%, REMAINDER @ 50% MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH ALL OTHER LOADS @ 100%: 16.7 kVA LARGEST MOTOR CALCULATED @ 125% PER NEC BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI, EX=EXISTING

DIVERSIFIED TOTAL kVA = 23

AVERAGE AMPS PER PHASE = **64**

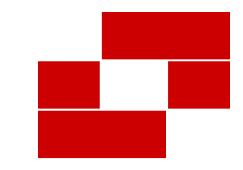
- 100% CONNECTED LOAD PLUS 25%

EXISTING CIRCUITS SHOWN AS HALF TONE. CONTRACTOR MAY UTILIZE SPACES FOR SUBFEED BREAKER IN EXISTING PANEL IF AVAILABLE. IF NO SPACE AVAILABLE REROUTE EXISTING CIRCUITS TO NEW PANEL TO PROVIDE SPACE FOR NEW SUBFEED BREAKER.

GENERAL SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE
- REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC
- CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR
- PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C).

⇒ SHEET KEYNOTES



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client name

Fairpark Zions Test Kitchen

Enter address here

EQUIPMENT NAMEPLATE EQUIPMENT ID SCHEME FIRST DIGIT - BUILDING LEVEL (0, 1, 2, ETC) SECOND DIGIT - PANEL TYPE M - MECHANICAL H - (277/480) L - (120/208) E - EMERGENCY S - STANDBY Q - EQUIPMENT U - UPS K - KITCHEN (120/208) THIRD DIGIT - BUILDING AREA (A, B, C, ETC) FOURTH DIGIT - SEQUENCE # (1,2,3,...) LABEL FORMAT [SYSTEM] [VOLTAGÉ] IFED FROM [SOURCE(S)] LABEL EXAMPLE PANEL "4LA1" STANDBY POWER 120/208V FED FROM BUS-A / XFMR 4TA BUSWAY LABEL BUSWAY EVERY 6' WHERE EXPOSED TO VIEW AND EVERY 15' WHERE NOT EXPOSED TO VIEW OTHER

COLOR SCHEME										
		NAMEPLATE COLOR								
SYSTEM	EQUIPMENT	TEXT	BACKGROUNI							
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK							
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEAR EXCEPT UPS GEAR AS NOTED	R, WHITE	ORANGE							
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED							
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE							
UPS "A" POWER	UPSA AND ALL DOWNSTREAM GEAR	WHITE	BLUE							
UPS "B" POWER	UPSB AND ALL DOWNSTREAM GEAR	BLACK	YELLOW							

INTERIOR LIGHTING FIXTURE SCHEDULE **GENERAL NOTES** SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. DIAMETER 4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER. HEIGHT CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. _WIDTH LUMINAIRE DELIVERED DELIVERED DIRECT INDIRECT COLOR MANUFACTURER (CATALOG

1,000

LENGTH: SEE

DRAWINGS

WIDTH: 2"

DEPTH: 4"

DIAMETER: -

SIZE (NOMINAL) | LUMENS | LUMENS | TEMP | CRI | TYPE | VOLTAGE | WATTS |

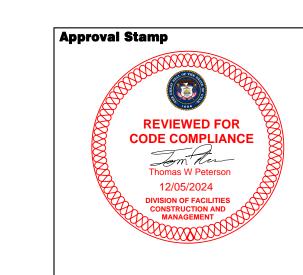
4000K 80 LED 0-10V 120V

DIMMING

7 MARK (SLOT 2)

WILLIAMS (MX2W)

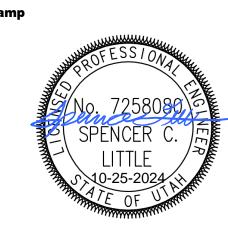
LUMIUM (HELIUM 2)



Original Issue Project Status

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SCHEDULES

Sheet Number