RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

ABBREVIATIONS

ACC	ACCESSIBLE	L	LONG
ACP	ACOUSTICAL CEILING PANEL	LAV	LAVATORY
AD	AREA DRAIN	LT	LIGHT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHU	AIR HANDLING UNIT	MAS	MASONRY
ALT	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MECH	MECHANICAL
ANOD	ANODIZED	MED	MEDIUM
APPROX	APPROXIMATE	MEMB	MEMBRANE
ARCH	ARCHITECT, ARCHITECTURAL	MFR	MANUFACTURER
		MIN	MINIMUM, MINUTE
AUTO	AUTOMATIC	MISC	MISCELLANEOUS
AV	AUDIO VISUAL	MS	MOP SINK
		MTD	MOUNTED
BCT	BABY CHANGING TABLE	MTL	METAL
BD	BOARD	MVBL	MOVABLE
BLDG	BUILDING		
BLKG	BLOCKING	N	NORTH
BO	BOTTOM OF	NIC	NOT IN CONTRACT
BOT	BOTTOM	NO	NUMBER
BRG	BEARING	NOM	NOMINAL
		NTS	NOT TO SCALE
CB	CATCH BASIN		
CG	CORNER GUARD	OC	ON CENTER
CH	COAT HOOK	OPNG	OPENING
CL	CENTERLINE	OPP	OPPOSITE
CLG	CEILING	ORD	OVERFLOW ROOF DRAIN
CLR	CLEAR	OTS	OPEN TO STRUCTURE
CMU	CONCRETE MASONRY UNIT	ABOVE	
CO	CLEAN OUT, CASED OPENING	PBD	PARTICLEBOARD
		PRCST	PRECAST
COL	COLUMN	PERP	PERPENDICULAR
CONT	CONTINUOUS, CONTINUE	PLAM	PLASTIC LAMINATE
CSWK	CASEWORK	PLAS	PLASTER
CTR	CENTER	PLYWD	PLYWOOD
CU	CUBIC	PNL	PANEL
		PL	PROPERTY LINE
D	DEEP, DEPTH	PR	PAIR
DEMO	DEMOLISH, DEMOLITION	PRKG	PARKING
DET	DETAIL	PROP	PROPERTY
DIA	DIAMETER	PT	PAINT, POINT
DIAG	DIAGONAL, DIAGRAM	PTN	PARTITION
DIM	DIMENSION		
DN	DOWN	R	RADIUS, RISER
DR	DOOR	RCP	REFLECTED CEILING PLAN
DS	DOWNSPOUT	REF	REFER TO, REFERENCE
DW	DISHWASHER	REFG	REFRIGERATOR
DWG	DRAWING	REINF	REINFORCED, REINFORCING
E	EAST, EXTERIOR INSULATION AND FINISH SYSTEM	REQD	REQUIRED
		REV	REVISED, REVISION
EIFS		RFG	ROOFING
EJ	EXPANSION JOINT	RM	ROOM
EL	ELEVATION	RO	ROUGH OPENING
ELEC	ELECTRIC, ELECTRICAL	RT	RIGHT
ELEV	ELEVATOR		
ENCL	ENCLOSE, ENCLOSURE		
EP	ELECTRICAL PANEL	S	SOUTH
EQ	EQUAL	SAM	SELF ADHERING MEMBRANE
EQUIP	EQUIPMENT		
EXIST	EXISTING	SC	SOLID CORE
EXH	EXHAUST	SCHED	SCHEDULE
EXP	EXPANSION, EXPOSED	SD	STORM DRAIN
EXTR	EXTERIOR	SD	SOAP DISPENSER
		SECT	SECTION
FA	FIRE ALARM	SGL	SINGLE
FCIC	FURNISHED BY CONTRACTOR/ INSTALLED BY CONTRACTOR	SHT	SHEET
		SHTHG	SHEATHING
		SIM	SIMILAR
		SPEC	SPECIFICATION
FCIO	FURNISHED BY CONTRACTOR/ INSTALLED BY OWNER	SPKLR	SPRINKLER
		SPKR	SPEAKER
		SQ	SQUARE
FD	FLOOR DRAIN	SS	SERVICE SINK, SANITARY SEWER
FDC	FIRE DEPARTMENT CONNECTION	SST	STAINLESS STEEL
FDTN	FOUNDATION	STC	SOUND TRANSMISSION CLASS
FE	FIRE EXTINGUISHER		
FH	FIRE HYDRANT	STD	STANDARD
FHC	FIRE HOSE CABINET	STL	STEEL
FIG	FIGURE	STOR	STORAGE
FIN	FINISH, FINISHED	STRUCT	STRUCTURAL
FO	FACE OF, FINISHED OPENING	SUSP	SUSPENDED
FOIC	FURNISHED BY OWNER/ INSTALLED BY CONTRACTOR	T	TREAD
		T&G	TOUNGE AND GROOVE
		TEL	TELEPHONE
FOIO	FURNISHED BY OWNER/ INSTALLED BY OWNER	TEMP	TEMPERATURE, TEMPORARY
FP	FIRE PROTECTION, FIREPROOF	TMPD	TEMPERED
		TO	TOP OF
FR	FRAME, FIRE RATED	TSTAT	THERMOSTAT
FRT	FIRE RETARDANT TREATED	TYP	TYPICAL
FS	FLOOR SINK	UGND	UNDERGROUND
FT	FOOT, FEET	UNFIN	UNFINISHED
		UON	UNLESS OTHERWISE NOTED
GA	GAUGE	UR	URINAL
GALV	GALVANIZED		
GB	GRAB BAR		
GEN	GENERAL, GENERATOR	VERT	VERTICAL
GFRC	GLASS-FIBER REINFORCED CONCRETE	VEST	VESTIBULE
		VIF	VERIFY IN FIELD
		VNR	VENEER
GFRG	GLASS-FIBER REINFORCED GYPSUM	VR	VAPOR RETARDER
		VWC	VINYL WALLCOVERING
GFRP	GLASS-FIBER REINFORCED PLASTIC	W	WEST, WIDE
		W/	WITH
		W/O	WITHOUT
GL	GLASS	WC	WATER CLOSET, WALLCOVERING
GYP	GYPSUM		
GYP BD	GYPSUM BOARD	WD	WOOD
		WH	WALL HYDRANT
HB	HOSE BIBB	WP	WEATHERPROOF, WEATHERPROOF, WATERPROOFING, WORK POINT
HDW	HARDWARE		
HO	HOLD OPEN		
HORIZ	HORIZONTAL		
HR	HOUR	WR	WATER RESISTANT
HT	HEIGHT	WR	WASTE RECEPTACLE
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING	W/FLIP TOP LID	
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INSUL	INSULATE, INSULATION		
INT	INTERIOR		
IWD	INDIRECT WASTE DRAIN		
JT	JOINT		
KIT	KITCHEN		

RESPONSIBILITY LEGEND

ITEM / DESCRIPTON	LANDLORD FURNISHED	LANDLORD INSTALLED	OWNER FURNISHED	OWNER INSTALLED	GC FURNISHED	GC INSTALLED	VENDOR FURNISHED	VENDOR INSTALLED
CONSTRUCTION FENCE / BARRICADE					X	X		
TEMPORARY UTILITIES / LIGHTING					X	X		
DEMISING WALL	X	X						
RESTROOMS					X	X		
STOREFRONT MODIFICATIONS	X	X						
ROOFING REPAIRS	X	X						
HVAC EQUIPMENT	X	X						
GREASE INTERCEPTOR	X	X						
GAS METER	X	X						
GAS STUB TO SPACE	X	X						
ELECTRICAL METER	X	X						
ELECTRICAL CONDUIT TO SPACE	X	X						
ELECTRICAL PANELS	X	X						
TELEPHONE CONDUIT TO SPACE	X	X						
WATER METER / SUBMETER	X	X						
WATER BACKFLOW PREVENTOR	X	X						
WATER STUB TO SPACE	X	X						
FIRE RISER	X	X						
FIRE SPRINKLER SYSTEM MODIFICATIONS					X	X		
FIRE ALARM SYSTEM MODIFICATIONS					X	X		
FLOOR & WALL FINISHES					X	X		
PIZZA OVEN						X	X	
PIZZA OVEN EXHAUST					X	X		
CASEWORK						X	X	
SODA MACHINE							X	X
KITCHEN EQUIPMENT						X	X	

ITEM / DESCRIPTON	LANDLORD FURNISHED	LANDLORD INSTALLED	OWNER FURNISHED	OWNER INSTALLED	GC FURNISHED	GC INSTALLED	VENDOR FURNISHED	VENDOR INSTALLED
FURNITURE & SEATING						X	X	
SHELVING						X	X	
LIGHTING						X	X	
EXTERIOR SIGNAGE							X	X
INTERIOR SIGNAGE							X	X
GRAPHICS							X	X
SMALL WARES				X			X	
ICE MACHINE							X	X
WINDOW SHADES				X				

SEPARATE PERMITS

A. TENANT SIGNAGE

B. FIRE SPRINKLER MODIFICATIONS

C. FIRE ALARM MODIFICATIONS

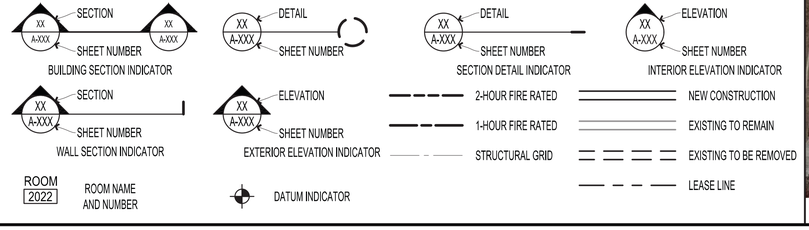
SCOPE OF WORK

TENANT IMPROVEMENT OF AN INTERIOR SPACE IN AN EXISTING MULTI-TENANT SINGLE-LEVEL BUILDING FOR A FAST CASUAL DINING PIZZA RESTAURANT. WORK MAY INCLUDE: NON-STRUCTURAL PARTITIONS, INTERIOR DOORS, SUSPENDED CEILINGS, LIGHTING, FINISHES, FURNITURE / CASEWORK / FOOD SERVICE EQUIPMENT INSTALLATION, ASSOCIATED HVAC / PLUMBING / ELECTRICAL / GAS / TELECOMMUNICATION SYSTEMS, PIZZA OVEN EXHAUST SYSTEM, DOOR, FIRE SPRINKLER MODIFICATIONS, FIRE ALARM MODIFICATIONS

GENERAL NOTES

1. DO NOT SCALE THE DRAWINGS.
2. VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.
3. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE BINDING IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
4. DIMENSIONS ARE TO THE STRUCTURAL GRID OR TO FINISH SURFACES, UNLESS OTHERWISE INDICATED.
5. DOORS AND CASED OPENINGS INDICATED NEAR BY WALL INTERSECTIONS, SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS SIX INCHES FROM THE FACE OF THE NEARBY WALL UNLESS OTHERWISE INDICATED. ALL OTHER DOORS AND CASED OPENINGS SHALL BE CENTERED BETWEEN ADJACENT WALL INTERSECTIONS.
6. ALL ANGLED WALLS ARE 45°, 90° OR 135° UON.
7. ALL WOOD BACKERS AND NAILERS SHALL BE FIRE RETARDANT AS REQUIRED.
8. THROUGHOUT THIS SET OF DRAWINGS, THE TERM "OWNER" REFERS TO THE "TENANT". THE TERM "LANDLORD" REFERS TO THE "PROPERTY OWNER".

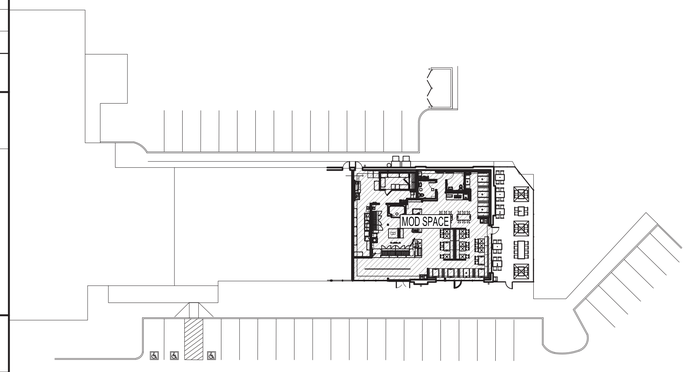
REFERENCE SYMBOLS



BUILDING CODE INFORMATION

JURISDICTION:	CITY OF LEE'S SUMMIT BUILDING & PLANNING DEPARTMENT
LEASE AREA:	3,079 SF SINGLE STORY
APPLICABLE CODES:	
BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE
EXISTING BUILDING CODE:	2018 INTERNATIONAL EXISTING CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
LOCAL ZONING CODE:	CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT ORDINANCE
ACCESSIBILITY CODE:	2009 ICC/ANSI A117.1
HEALTH CODE:	MISSOURI FOOD CODE
OCCUPANCY GROUP:	A-2 RESTAURANT
CONSTRUCTION TYPE:	II-B
SEISMIC DESIGN CATEGORY:	D
SPRINKLERED:	YES
FIRE ALARM SYSTEM:	YES

SITE MAP



VICINITY MAP

PROJECT DIRECTORY

PROPERTY OWNER:
TOWNSEND SUMMIT, LLC
120 SOUTH CENTRAL AVE
CLAYTON, MO 63105
CONTACT: MATT BLANCHARD
EMAIL: MATT@THENIKIGROUP.COM

TENANT/FRANCHISE OWNER:
WOMACK RESTAURANT GROUP
14 S 9TH ST
TERRE HAUTE, IN 47807

DESIGN MANAGER:
CONTACT: LESLIE DAHLIN
PHONE: 425-381-9024
EMAIL: LESLIE.DAHLIN@MODPIZZA.COM

CONSTRUCTION MANAGER:
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PHONE: 812-478-0232x121
EMAIL:
NBROWN@WOMACKRESTAURANTS.COM

ARCHITECT:
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ARCHITECT OF RECORD:
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CONTACT: EDUARDO MANI
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EMAIL: EMANI@INTERPLANLLC.COM

ENGINEER:
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ENGINEER OF RECORD:
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DRAWING INDEX

		PERMIT	REV1	REV2	REV3	REV4
GENERAL						
A-001	GENERAL INFORMATION	●	●		●	●
A-002	SITE PLAN	●	●			
A-003	EGRESS PLAN	●	●			●
A-004	HEALTH DEPARTMENT INFORMATION	●				
ARCHITECTURAL						
A-101	SLAB PLAN	●				●
A-111	FLOOR PLAN	●		●		●
A-121	REFLECTED CEILING PLAN/ DETAILS	●		●		●
A-122	REFLECTED CEILING PLAN - BAFFLING	●		●		●
A-131	FINISH PLAN / SCHEDULE	●		●		●
A-132	EQUIPMENT PLAN / SCHEDULE	●	●	●		
A-133	MISCELLANEOUS PLAN / SCHEDULE	●		●		
A-134	FURNITURE & CASEWORK PLAN / SCHEDULE	●		●		●
A-401	ENLARGED PLANS AND DETAILS - PIZZA ENGINE	●		●	●	●
A-403	ENLARGED PLANS AND ELEVATIONS - RESTROOMS	●				●
A-405	ENLARGED PLANS AND DETAILS - PATIO	●				
A-601	DOOR LEGEND & DETAILS	●				●
A-701	INTERIOR ELEVATIONS - DINING	●				●
A-702	INTERIOR ELEVATIONS - DINING	●				
A-703	INTERIOR ELEVATIONS - DINING	●				●
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P-502	PLUMBING RISER DIAGRAMS	●				●
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E-111	LIGHTING PLAN	●	●	●		●
E-112	POWER \ LOW VOLTAGE PLAN	●		●	●	●
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E-602	RISER DIAGRAM & PANEL SCHEDULES	●			●	
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SP-902	ARCHITECTURAL SPECIFICATION	●				
SP-903	ARCHITECTURAL SPECIFICATION	●				
SP-904	ARCHITECTURAL SPECIFICATION	●				
SP-905	ARCHITECTURAL SPECIFICATION	●				
SP-911	MECHANICAL SPECIFICATION	●				
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SP-913	ELECTRICAL SPECIFICATION	●				
VENDOR LIST						
V-001	VENDOR LIST	●				
V-002	VENDOR LIST	●				
HOOD DRAWINGS						
1 H-001	HOOD DRAWING DIRECT VENT	●				●
2 H-002	HOOD DRAWING DIRECT VENT	●				●
3 H-003	HOOD DRAWING DIRECT VENT	●				●

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
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INTERPLAN LLC
ARCH COA #2015008774
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ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
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407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2006
Digitally signed by David Boyce
Date: 2022.01.05 17:33:40 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-001
GENERAL INFORMATION

CHECKED: EM DRAWN: AL

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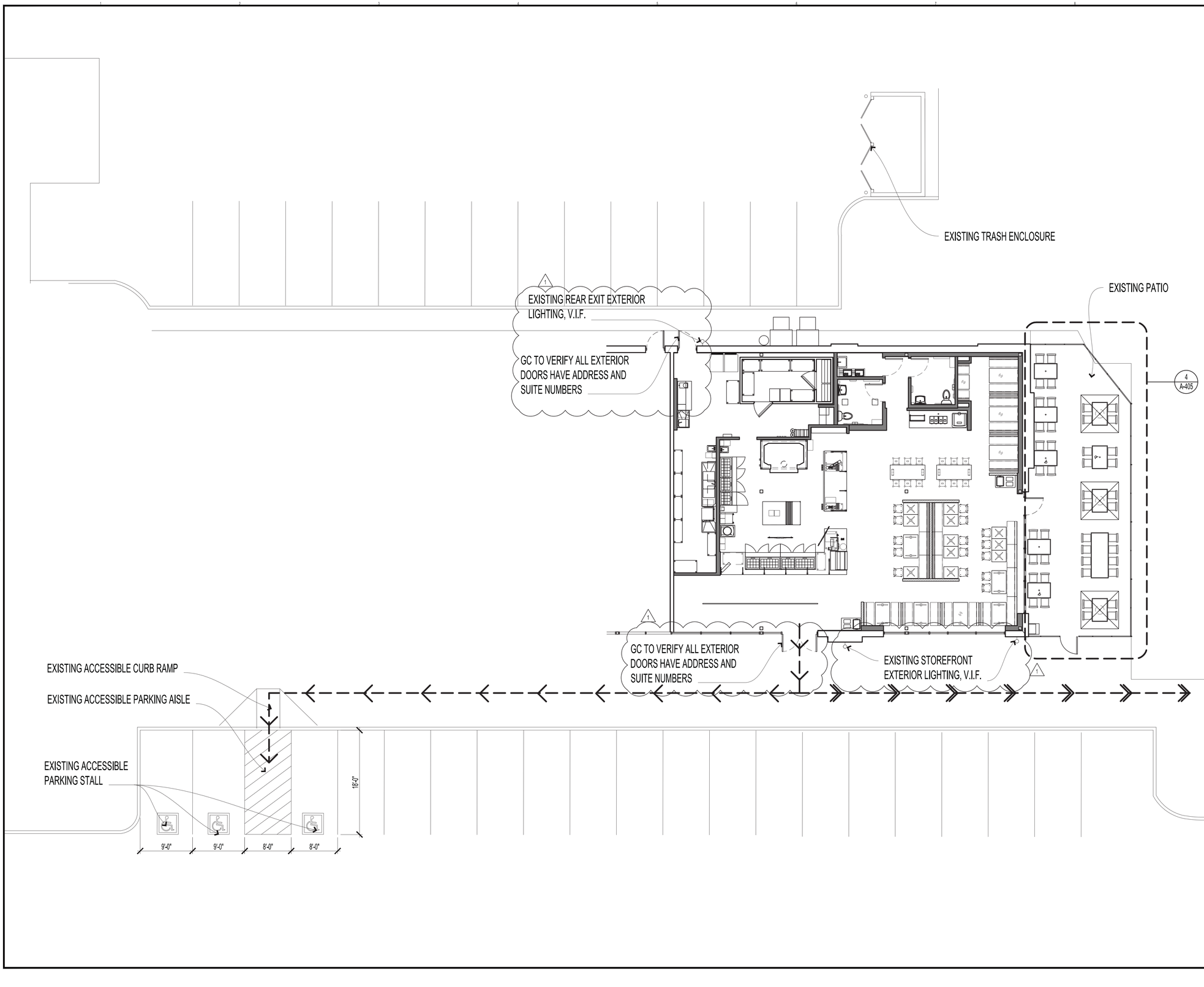

SHEET NOTES

1. ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY IS EXISTING.
2. ACCESSIBLE ROUTE BEYOND LEASE LINE TO ACCESSIBLE PARKING IS EXISTING.
3. APPROXIMATE DISTANCE TO DUMPSTER: 35'-0"

SHEET SYMBOLS

ACCESSIBLE ROUTE

ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY

NORTH

0 2' 4' 8' 16'
SCALE: 1/8"=1'-0"

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ENG COA #2005026904

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SEAL
STATE OF MISSOURI
DAVID G. BOYCE
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Date: 2022.01.05 17:34:33 -05'00'

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460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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A-002
SITE PLAN

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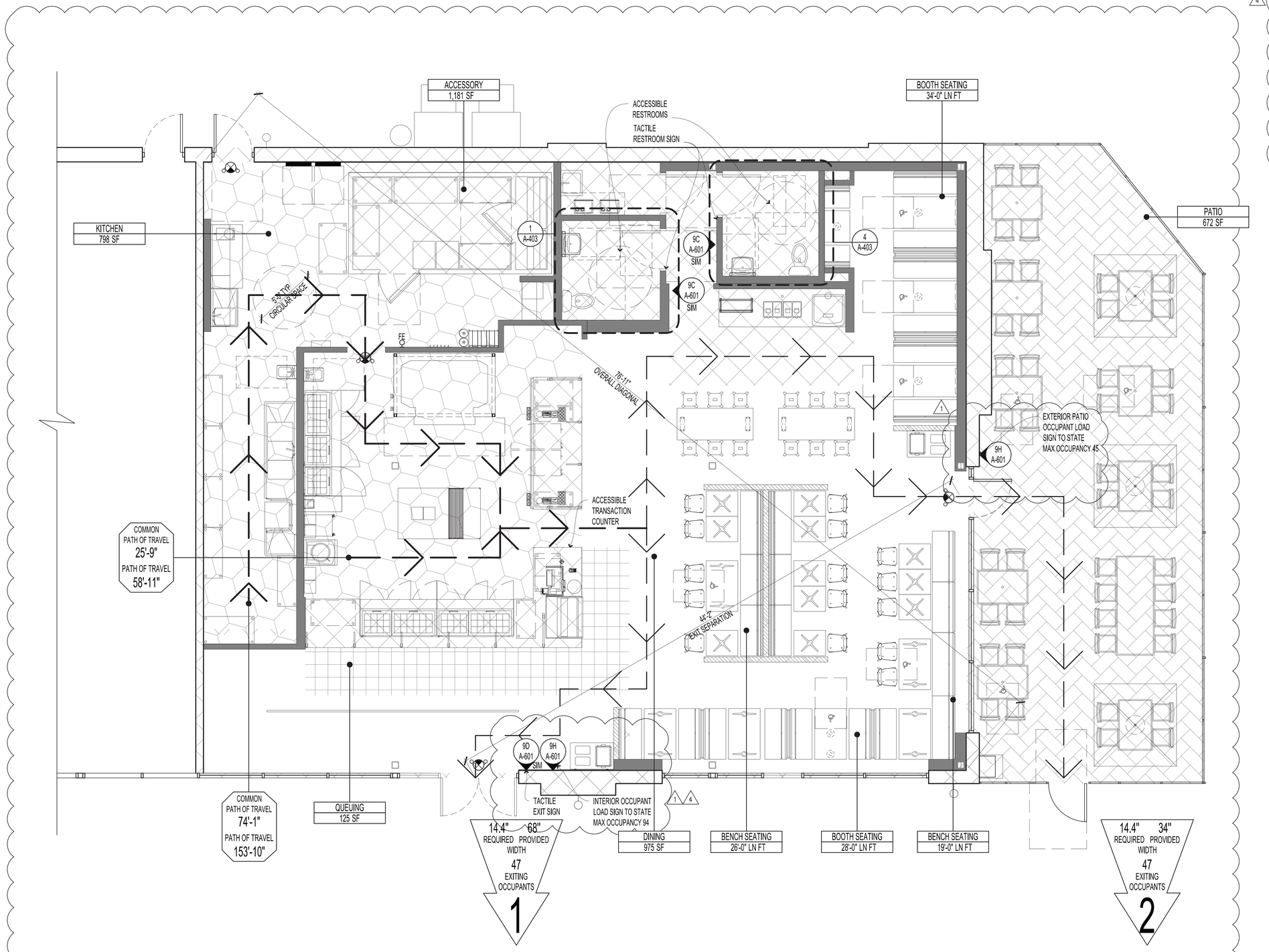

CALCULATIONS

OCCUPANCY GROUP: ASSEMBLY A-2 (RESTAURANT)

INTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

AREA	TOTAL SQ FT	LOAD FACTOR	OCCUPANT LOAD
DINING (FLEXIBLE)	975	15 / SF	65
QUEUING (STANDING)	125	5 / SF	25
KITCHEN	798	200 / SF	4
ACCESSORY	1,181	0 / SF	0
TOTAL	3,079	---	94

EXTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

PATIO (FLEXIBLE)	672	15 / SF	45
TOTAL	672	---	45

INTERIOR SEATING: (IBC TABLE 1108.2.2.1)

SEAT TYPE		TOTAL LINEAR FT	SEATS PROVIDED
MOVABLE SEATS		---	27
FIXED SEATS		---	0
BENCHES (1 PER 18")		45'-0"	30
BOOTHS (1 PER 24")		62'-0"	31
TOTAL		---	88
ACCESSIBLE	REQUIRED	5	6

EXTERIOR SEATING: (IBC TABLE 1108.2.2.1)

MOVABLE SEATS		---	44
BENCHES (1 PER 18")		---	---
TOTAL		---	44
ACCESSIBLE	REQUIRED	2	3

EXITS:	REQUIRED	PROVIDED
ALL EXITS ARE ACCESSIBLE		
NUMBER OF EXITS (IBC TABLE 1015.1)	2	2
SPRINKLERED EXIT WIDTH (IBC 1005.3.2)	28.8"	102"
EXIT SEPARATION (IBC 1015.2.1) SPRINKLERED = 1/3 OVERALL DIAGONAL	25'-6"	44'-2"
MAX TRAVEL DISTANCE (IBC TABLE 1016.2)	250'-0"	153'-10"
MAX COMMON PATH OF TRAVEL (IBC 1014.3)	75'-0"	74'-1"

PLUMBING FIXTURES: (IBC TABLE 2902.1)

INTERIOR OCC + EXTERIOR OCC = TOTAL OCC	94 + 45 = 139
1/2 x TOTAL OCC = OCC PER SEX	1/2 x 139 = 70

PLUMBING FIXTURE	WOMEN'S FIXTURES REQUIRED	WOMEN'S FIXTURES PROVIDED	MEN'S FIXTURES REQUIRED	MEN'S FIXTURES PROVIDED
WATER CLOSET	1	1	1	1
LAVATORY	1	1	1	1
MOP SINK			1	1
DRINKING FOUNTAIN			EXCEPTION	

IPC 410.3: EXCEPTION:
WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED.

SHEET SYMBOLS

- COMMON PATH OF TRAVEL (3FT CLEAR)
- PATH OF TRAVEL (3FT CLEAR)
- FE — WALL MOUNTED FIRE EXTINGUISHER MOUNT WITH VALVE 48" AFF
- TACTILE SIGNAGE - SEE 9/A-601
- EXIT SIGN, REFER TO ELECTRICAL DRAWINGS

NORTH

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

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Bellevue, WA 98008

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A-003

EGRESS, OCCUPANCY, ACCESSIBILITY PLAN

CHECKED: EM DRAWN: AL

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02/02/2022

MOD PREPARATION STANDARDS

STANDARD PRODUCE WASHING PROCEDURES:

1. CAREFULLY EMPTY THE PRODUCE INTO THE COLANDER.
2. IN THE PREP SINK, WHILE RUNNING COLD WATER OVER THE PRODUCE, SHAKE AND STIR WITH GLOVED HAND TO REMOVE DEBRIS.
3. SHAKE THE PRODUCT IN THE COLANDER TO HELP DRAIN AS MUCH WATER AS POSSIBLE.
4. FOLLOW SPECIFIC DRYING INSTRUCTIONS FOR EACH PREPPED ITEM:
   - 4.1. TOMATOES, GREEN PEPPERS, ROSEMARY, SERRANO PEPPERS:
     - 4.1.1. PLACE WASHED PRODUCE ONTO A SHEET TRAY TO AIR DRY ON THE COOLING RACK IN THE WALK-IN UNTIL COMPLETELY DRY.
     - 4.1.2. CUT AS NEEDED.
     - 4.1.3. PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.
   - 4.2. BASIL
     - 4.2.1. PICK THE LEAVES FROM THE STEMS AND PLACE THEM ON A CLEAN, UNUSED KITCHEN TOWEL.
     - 4.2.2. COVER WITH A CLEAN, UNUSED KITCHEN TOWEL.
     - 4.2.3. LIGHTLY PRESS TO PULL WATER OFF OF LEAVES.
     - 4.2.4. CUT AS NEEDED.
     - 4.2.5. PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.
   - 4.3. MUSHROOMS
     - 4.3.1. PLACE WASHED MUSHROOMS ONTO THE DRAINING GRATE, WITH A SHEET TRAY UNDERNEATH, TO DRY ON THE COOLING RACK IN THE WALK-IN UNTIL COMPLETELY DRY.
     - 4.3.2. PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.

BASIL:
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR BASIL.
2. WHEN BASIL IS DRY, STACK A HANDFUL OF LEAVES FACED IN THE SAME DIRECTION.
3. ROLL THE STACK OF BASIL LEAVES HORIZONTALLY.
4. CUT LEAVES INTO 1/8 INCH STRIPS.
5. PUT BASIL INTO THE MAKELINE PAN.
6. PLACE LID ON PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROSEMARY:
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR ROSEMARY.
2. WHEN ROSEMARY IS DRY PULL LEAVES DOWN AGAINST THE GRAIN OF THE STEM TO REMOVE LEAVES.
3. CUT LEAVES INTO 1/4 INCH PIECES.
4. PUT ROSEMARY INTO THE SMALL SILVER BOWL.
5. ROSEMARY MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SALAD GREENS (SPRING MIX, ROMAINE, SPINACH - *DO NOT WASH*):
1. OPEN THE BAG OF GREENS.
2. POUR PRODUCT INTO THE MAKLINE PAN WITH THE FALSE BOTTOM.
3. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

GREEN PEPPERS:
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR THE GREEN PEPPERS.
2. WHEN THE GREEN PEPPERS ARE DRY, CUT OFF THE TOPS OF THE PEPPERS.
3. REMOVE THE SEEDS AND THE WHITE MEMBRANE FROM THE INSIDE OF THE PEPPERS WITH GLOVED HANDS.
4. PLACE THE MAKELINE PAN UNDER THE DICER BLADES TO CATCH THE GREEN PEPPERS.
5. PUT THE PEPPER INTO THE DICER AND CUT FOLLOWING THE DICING PROCEDURE.
6. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

TOMATOES - SLICED AND DICED:
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR TOMATOES.
2. WHEN TOMATOES ARE DRY, USE THE TOMATO CORER TO REMOVE STEMS.
3. CORE THE TOMATOES. FOR SLICED TOMATOES USE THE CHEF KNIFE TO CUT OFF BOTH ENDS OF THE TOMATO AND USE FOR DICED TOMATOES.
4. FOLLOW THE PROCEDURE FOR EITHER THE SLICER OR DICER.
5. PUT CUT TOMATOES INTO THE MAKELINE PAN.
6. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SERRANO PEPPERS (REGIONAL):
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR SERRANO PEPPERS.
2. WHEN SERRANO PEPPERS ARE DRY, CUT OFF TOPS OF PEPPER.
3. SLICE SERRANO PEPPERS INTO 1/8 INCH, ROUND SLICES.
4. PUT THE PRODUCT INTO A MAKELINE PAN.
5. PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MUSHROOMS:
1. FOLLOW THE PRODUCE WASHING PROCEDURE FOR MUSHROOMS.
2. WHEN MUSHROOMS ARE DRY, PUT INTO THE MAKELINE PAN.
3. PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

RED ONIONS:
1. SEPARATE INDIVIDUAL RINGS BY HAND AND DISCARD PIECES THAT ARE TOO SMALL TO FIT AROUND A THUMB.
2. PUT ONIONS INTO THE MAKELINE PAN.
3. PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

STANDARD ROASTING PROCEDURES:

SLOW ROASTING: USED FOR INGREDIENTS THAT REQUIRE A GENTLE HEAT TO FULLY COOK, MAKING IT SOFT THROUGHOUT WHILE STILL PROVIDING A GOLDEN BROWN COLORATION.

METHOD:
1. COOK IN THE COOL PART OF THE OVEN TURNING THE INGREDIENT OVER WITH TONGS EVERY 5 MINUTES UNTIL DONE (NOT MIXING WILL BURN THE PRODUCT).
2. ITEM IS FULLY C0OKED WHEN SOFT AND GOLDEN BROWN THROUGHOUT.
3. IMMEDIATELY TRANSFER TO A SHEET TRAY. FOLLOW THE COOLING PROCESS.

FAST ROASTING: USED FOR INGREDIENTS THAT REQUIRE A QUICK HEAT TO GAIN COLORATION WITHOUT OVERCOOKING THEM, STAYING SLIGHTLY FIRM.

METHOD:
1. SPREAD INGREDIENTS IN AN EVEN SINGLE LAYER ACROSS THE PAN.
2. COOK IN THE HOTTEST PART OF THE OVEN, ONLY TURNING THE PAN TO GET AN EVEN COLOR ACROSS THE INGREDIENT. DO NOT MIX. MIXING WILL SLOW THE BROWNING PROCESS AND CAUSE AN INGREDIENT TO BE OVERCOOKED AND TOO SOFT IN TEXTURE.
3. IT IS FULLY COOKED WHEN EVEN BROWN AND BLACK COLORATION IS ACROSS THE TOP. FOLLOW THE COOLING PROCESS.

COOLING PROCESS:
1. IMMEDIATELY PLACE THE SHEET TRAY ON THE COOLING RACK IN THE WALK-IN.
2. COOLING CHART MUST BE COMPLETED FULLY AND CHECKED AT REGULAR INTERVALS.
3. WHEN PRODUCT REACHES 41 DEGREES FAHRENHEIT OR BELOW, TRANSFER INTO THE APPROPRIATE STORAGE CONTAINER WITH A LID AND COMPLETED DAY DOT.

ROASTED BROCCOLI:
1. INSPECT AND DISCARD ANY BROCCOLI FLORETS THAT DO NOT MEET COLOR STANDARDS.
2. WITH GLOVED HANDS, BREAK THE FLORETS TO BE SMALLER THAN A PIZZA NUMBER.
3. ON A SHEET TRAY WITH GLOVED HANDS MIX THE BROCCOLI, OLIVE OIL, AND SEA SALT UNTIL COMPLETELY COATED.
4. OVEN SHOULD BE UP TO TEMPERATURE. COOK IN THE HOT PART OF THE OVEN FOR 7-8 MINUTES ALLOWING FOR COLOR TO FORM.
5. COOK UNTIL THEY REACH THE STANDARD COLOR AND TEXTURE; BROWN AND BLACK AND SLIGHT FIRMNESS.
6. REMOVE FROM OVEN AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
7. RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
8. WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED CORN:
1. REMOVE FROZEN CORN FROM PACKAGING AND PLACE ON A SHEET TRAY.
2. MIX THE FROZEN CORN, OLIVE OIL, AND SEA SALT UNTIL COMPLETELY COATED.
3. OVEN SHOULD BE UP TO TEMPERATURE. COOK IN THE HOT PART OF THE OVEN FOR 6 MINUTES ALLOWING FOR COLOR TO FORM.
4. TURN PAN AND COOK FOR ANOTHER 6 MINUTES UNTIL IT HAS REACHED THE STANDARD COLORATION.
5. REMOVE FROM OVEN AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
7. RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
8. WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED GARLIC:
1. INSPECT GARLIC FOR ANY PEELS OR BIG ROOT TOPS AND REMOVE.
2. IN THE PAN, MIX THE GARLIC, OLIVE OIL, SEA SALT AND BLACK PEPPER UNTIL COMPLETELY COATED.
3. COOK IN THE COOL PART OF THE OVEN, MIXING GARLIC WITH TONGS EVERY 5 MINUTES FOR ROUGHLY 30 MINUTES UNTIL IT IS SOFT AND SLIGHTLY BROWNED, NOT BLACK.
4. REMOVE FROM THE OVEN.
5. TRANSFER TO A SHEET TRAY IN A SINGLE LAYER AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
7. RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
8. WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

STANDARD MEAT & CHEESE PROCEDURES:

MEAT PREP (MILD SAUSAGE, SPICY CHICKEN SAUSAGE, GROUND BEEF, CHICKEN, PEPPERONI, BACON, CANADIAN BACON):
1. USING A BAG OPENER, OPEN BAG OF MEAT PRODUCT.
2. WITH GLOVED HANDS, PUT PRODUCT INTO THE MAKELINE PAN.
3. SEPARATE INDIVIDUAL SLICES AND CLUMPS WITH GLOVED HANDS.
4. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SALAMI:
1. USING A BAG OPENER, OPEN BAG OF SALAMI.
2. PLACE 1 INCH STACKS OF SLICED SALAMI ONTO THE CUTTING BOARD.
3. USING THE CHEF KNIFE, QUARTER THE SLICES OF SALAMI, CUTTING THE STACK IN HALF, TURNING AND CUTTING IN HALF AGAIN.
4. WITH GLOVED HANDS, SEPARATE SLICES OF SALAMI AND PUT QUARTERED SALAMI INTO THE MAKELINE PAN.
5. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ANCHOVIES:
1. LEAVING RESIDUAL OIL IN THE TIN, SEPARATE ANCHOVY FILLETS.
2. WITH GLOVED HANDS, CAREFULLY PLACE THE ANCHOVY FILLETS INTO THE MAKELINE PAN.
3. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

CHEESE PREP (ASIAGO, PARMESAN, FETA, GORGONZOLA, MOZZARELLA):
1. OPEN THE BAG OF CHEESE.
2. WITH GLOVED HANDS, POUR THE PRODUCT INTO THE MAKELINE PAN.
3. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

RICOTTA:
1. WITH GLOVED HANDS, SCOOP THE RICOTTA INTO THE MAKELINE PAN.
3. PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

DAIRY FREE CHEESE:
1. USING THE BAG OPENER, OPEN THE BAG OF DAIRY FREE CHEESE.
2. WITH GLOVED HANDS, POUR THE PRODUCT INTO THE 4 QT. CAMBRO.
3. PLACE THE 4 QT. CAMBRO ON TUB AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SAUCE & CONDIMENT PROCEDURES:

FILLING SQUEEZE BOTTLES AND PORTION CUPS (DRESSINGS, EXPO FINISHING SAUCES, MILKSHAKE SYRUPS, PESTO, BARBEQUE SAUCE, WHITE SAUCE, GARLIC BUTTER):
1. WITH GLOVED HANDS, FILL THE CLEAN SQUEEZE BOTTLE OR PORTION CUP WITH PRODUCT. PORTION CUPS ARE FILLED TO THE TOP OF THE CUP.
2. PLACE THE LID ON THE SQUEEZE BOTTLE, SCREW THE LID ON TIGHTLY. PORTION CUP LIDS ARE SNAPPED ON.
3. LABEL THE SQUEEZE BOTTLES WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
4. BATCH LABEL THE PORTION CUPS BY PLACING A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
5. FOLLOW THE SHELF LIFE CHART FOR PRODUCTS IN SQUEEZE BOTTLES AND PORTION CUPS IN THE KITCHEN.

BASE SAUCES (WHITE SAUCE, PESTO, BARBEQUE SAUCE):
1. WITH GLOVED HANDS, POUR THE PRODUCT INTO THE SQUEEZE BOTTLE.
2. SCREW THE LID ONTO THE SQUEEZE BOTTLE AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MINCED GARLIC:
1. WITH GLOVED HANDS, DRAIN THE EXCESS LIQUID FROM THE GARLIC.
2. TRANSFER THE GARLIC INTO THE MAKELINE PAN.
3. PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MOD RED SAUCE:
1. USING THE BAG OPENER, OPEN 3 POUCHES OF MOD RED SAUCE.
2. WITH GLOVED HANDS, DISTRIBUTE EVENLY BETWEEN 2 MAKELINE PANS, APPROXIMATELY 1.5 POUCHES PER PAN.
3. USING THE SQUEEGEE, SQUEEZE ALL OF THE MOD RED SAUCE OUT OF THE POUCH.
4. PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

OREGANO BOWL:
1. WITH GLOVED HANDS, TRANSFER OREGANO INTO A SMALL SILVER BOWL FOR USE.
2. OREGANO MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SALT & PEPPER:
1. WITH GLOVED HANDS, MEASURE AND ADD THE TABLE SALT TO THE MIXING BOWL.
2. MEASURE THE BLACK PEPPER AND ADD TO THE MIXING BOWL WITH THE TABLE SALT.
3. USING THE RUBBER SPATULA, MIX THE TABLE SALT AND THE BLACK PEPPER UNTIL THOROUGHLY MIXED.
4. TRANSFER TO A SMALL SILVER BOWL FOR USE.
5. MIXTURE MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SRI-RANCHA:
1. WITH GLOVED HANDS, MEASURE 1 CUP OF THE RANCH DRESSING WITH THE MEASURING CUP AND POUR IN A MIXING BOWL.
2. MEASURE 1 CUP OF THE SRIRACHA WITH THE MEASURING CUP AND POUR INTO THE MIXING BOWL WITH THE RANCH DRESSING.
3. USING THE RUBBER SPATULA, MIX TO EVENLY INCORPORATE THE RANCH DRESSING AND SRIRACHA TOGETHER.
4. TRANSFER INTO A SQUEEZE BOTTLE.
5. SCREW THE LID ON THE SQUEEZE BOTTLE AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

GARLIC BUTTER:
1. WITH GLOVED HANDS, MEASURE 1/4 CUP OF GRANULATED GARLIC WITH THE MEASURING CUP AND POUR INTO THE BUTTER SUBSTITUTE CONTAINER.
2. SHAKE THE CONTAINER VIGOROUSLY TO EVENLY INCORPORATE THE GRANULATED GARLIC AND BUTTER SUBSTITUTE TOGETHER.
3. LABEL THE CONTAINER "GARLIC BUTTER" AND APPLY A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
4. TRANSFER INTO A SQUEEZE BOTTLE AS NEEDED.
5. SCREW THE LID ON THE SQUEEZE BOTTLE AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SPICY RED SAUCE:
1. FILL THE 1/3 PAN WITH MOD RED SAUCE.
2. USING THE RUBBER SPATULA, MIX THE CRUSHED CALABRIAN PEPPERS AS OIL SEPARATION CAN OCCUR.
3. ADD THE CRUSHED CALABRIAN PEPPERS TO THE MOD RED SAUCE.
4. USING THE RUBBER SPATULA, STIR TO INCORPORATE THE CRUSHED CALABRIAN PEPPERS INTO THE RED SAUCE, UNTIL IT IS A UNIFORM COLOR.
5. POUR THE FINISHED SPICY RED SAUCE INTO THREE 1/6 MAKELINE PANS.
6. LABEL AND DATE WITH THE SHELF LIFE OF 3 DAYS (PREPPED) AND COVER.

CANNED & POUCHED PRODUCT PROCEDURES:

CANNED PRODUCTS TO DRAIN (BLACK OLIVES, PINEAPPLE, JALAPENOS):
1. OPEN THE CANS USING THE CAN OPENER.
2. WITH GLOVED HANDS, POUR THE PRODUCT INTO THE COLANDER TO DRAIN COMPLETELY.
3. PLACE THE PRODUCT INTO THE MAKELINE PAN.
4. PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

JUGGED PRODUCTS TO DRAIN (MAMA LIL'S SWEET HOT PEPPERS, BANANA PEPPERS (REGIONAL)):
1. OPEN THE JUG.
2. WITH GLOVED HANDS, POUR THE CONTENTS OF THE JUG INTO THE COLANDER TO DRAIN COMPLETELY.
3. PLACE THE PRODUCT INTO THE MAKELINE PAN.
4. PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED RED PEPPERS:
1. OPEN THE CANS USING THE CAN OPENER.
2. USING GLOVED HANDS, POUR 2 CANS OF ROASTED RED PEPPERS INTO THE COLANDER TO DRAIN COMPLETELY.
3. PLACE THE ROASTED RED PEPPERS INTO A MIXING BOWL.
4. MEASURE AND ADD THE MINCED GARLIC TO THE MIXING BOWL.
5. MEASURE AND ADD THE CHOPPED BASIL TO THE MIXING BOWL.
6. USING A RUBBER SPATULA, MIX TO INCORPORATE THE BASIL AND GARLIC INTO THE ROASTED RED PEPPERS.
7. TRANSFER INTO THE MAKELINE PAN.
8. PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

NO NAME CAKES:
1. WITH GLOVED HANDS, PLACE THE NO NAME CAKE TOP SIDE UP ON A PIZZA LINER.
2. PLACE THE FOIL OVER THE TOP OF THE NO NAME CAKE WITH THE PRINTED FOIL CENTERED ON THE NO NAME CAKE.
3. GENTLY PUSH DOWN THE SIDES OF THE FOIL TO CREATE A SMOOTH TOP AND EVEN SIDES AROUND THE NO NAME CAKE.
4. FLIP THE NO NAME CAKE OVER AND GENTLY FOLD THE EDGES OF THE FOIL TO THE CENTER TO COVER THE ENTIRE BOTTOM.
5. FLIP THE NO NAME CAKE OVER AND GENTLY FLATTEN THE BOTTOM OF THE FOIL.

MOD HACCP

TYPE OF SERVICE: HEAT AND SERVE

DAYS AND HOURS OF OPERATION: SUN-THUR 10:30AM-10:00PM FRI-SAT 10:30AM-11:00PM

NUMBER OF STAFF: 30

MAXIMUM PER SHIFT: 15

DISTRIBUTION :

ALL PRODUCE IS SOURCED THROUGH PRO*ACT. ALL BROADLINE DISTRIBUTION IS THROUGH PERFORMANCE FOOD GROUP (PFG).

EMPLOYEE HEALTH:

ALL MOD SQUAD MEMBERS WORKING IN A STORE LOCATION OR WITH MOD FOOD OR BEVERAGE AGREE TO REPORT TO THE MANAGER WHEN EXPERIENCING ANY OF THE FOLLOWING SYMPTOMS:

- VOMITING
- DIARRHEA/STOMACH CRAMPS
- SORE THROAT WITH FEVER
- JAUNDICE (YELLOWING OF EYES OR SKIN)
- INFECTED CUTS, WOUNDS OR BOILS WITH PUS ON THE HANDS OR WRISTS.

IF THE WOUND CANNOT BE COVERED TO PREVENT POTENTIAL DISEASE TRANSMISSION, THE MOD SQUAD MEMBER CANNOT WORK IN STORES.

HANDWASHING:
1. ALL HANDS MUST BE WASHED ONLY AT A HAND WASH SINK.
2. HAND WASH SINKS MUST HAVE SINGLE USE PAPER TOWELS, WATER MUST BE >100˚F (OR AS REQUIRED BY JURISDICTION), AND SOAP.
3. HANDS MUST BE WASHED FOR AT LEAST 20 SECONDS (OR AS REQUIRED BY JURISDICTION).
4. FAUCETS MUST BE TURNED OFF BY USING A SINGLE USE PAPER TOWEL AS A BARRIER.
5. HANDS MUST BE WASHED DURING THE FOLLOWING CIRCUMSTANCES (AT MINIMUM):
   - BEFORE STARTING WORK
   - BEFORE PUTTING ON GLOVES
   - BETWEEN GLOVE CHANGES
   - AFTER ALL MONEY HANDLING
   - BEFORE AND DURING FOOD PREPARATION
   - BEFORE HANDLING KITCHEN TOOLS OR PREP EQUIPMENT
   - WHEN CHANGING FROM ONE TASK TO ANOTHER
   - AFTER COUGHING, SNEEZING, OR USING A TISSUE
   - AFTER TOUCHING FACE, HAIR, CLOTHING
   - AFTER EATING, DRINKING, CHEWING GUM, SMOKING
   - AFTER CLEANING
   - AFTER HANDLING GARBAGE
   - AFTER VISITING THE RESTROOM
   - IN THE RESTROOM
   - ONCE YOU RETURN TO THE KITCHEN
   - AFTER GOING OUTSIDE FOR ANY REASON
   - BETWEEN DOUGH PRESS AND MAKELINE, EXPO, OR OVEN
   - BETWEEN REGISTER AND EXPO, MAKELINE, OR OVEN
   - BETWEEN OVEN AND MAKELINE
   - BETWEEN EXPO AND MAKELINE

PERSON IN CHARGE:
1. EVERY SHIFT WILL HAVE A GENERAL MANAGER/ASSISTANT MANAGER/SHIFT LEAD WHO WILL BE DESIGNATED AND PERMIT HOLDING (WHEN REQUIRED BY JURISDICTION) PERSON IN CHARGE.
2. ALL MANAGERS, SHIFT LEADS, AND TRAINING MANAGER WILL BE CERTIFIED (WHEN REQUIRED BY JURISDICTION).
3. THERE IS ALWAYS A KNOWLEDGEABLE PERSON PRESENT AT ALL TIMES OF OPERATION.

THERMOMETERS:
1. EACH STORE HAS A MINIMUM OF FOUR (4) WORKING NSF APPROVED THERMOMETERS WITH APPROPRIATE TEMPERATURE RANGE TO CHECK PRODUCT TEMPERATURES, WATER TEMPERATURE, AND DISH MACHINE TEMPERATURES.
2. EACH REFRIGERATION UNIT HAS AT LEAST ONE INTERNAL THERMOMETER. LINE TEMPERATURE CHECKS ARE COMPLETED FREQUENTLY TO VERIFY INTERNAL PRODUCT AND EQUIPMENT TEMPERATURES.
3. THE AMOUNT OF COLD STORAGE/HOLDING NEEDED FOR OPERATION WAS DETERMINED BY THE PAR LEVELS OF PRODUCTS IN CURRENTLY OPERATING LOCATIONS, BASED ON SIMILAR PROJECTED SALES VOLUMES. MOD HAS BEEN OPERATING SINCE 2008.

CALIBRATION:

ALL AFL DIGITAL THERMOMETERS HAVE CALIBRATION SETTINGS STORE IN A NON-VOLITILE MEMORY CHIP.

SANITIZER:
1. ALL STORES USE QUATERNARY AMMONIUM IN A CONCENTRATION OF 150-400PPM.
2. TEST STROPS ARE USED ON THE SANITIZE EACH TIME SANITIZER BUCKETS ARE FILLED. SANITIZER IS ROUTINELY CHECKED TO ENSURE PROPER CONCENTRATION AT ALL TIMES.

CLEANING:
1. ANY PIECE OF EQUIPMENT THAT IS UNABLE TO BE WASHED IN THE 3 COMPARTMENT SINK OR IN THE DISHWASHER IS CLEANED IN PLACE THROUGH A FULL WASH, RINSE, SANITIZE, AND AIR DRY.
2. ALL EQUIPMENT MUST BE SANITIZED AFTER CLEANING.
3. ALL CONTAINERS OF TOXICS ARE PROPERLY STORED AND LABELED. SDS SHEETS AVAILABLE ON SITE. CHEMICAL DISPENSERS ARE PROFESSIONALLY SERVICED EVERY MONTH.
4. TOWELS AND FLOOR MATS ARE LAUNDERED WEEKLY BY AN OFF-SITE PROFESSIONAL LAUNDRY SERVICE.

DISHWASHING:
1. ALL DISH MACHINES HAVE THE REQUIRED TEMPERATURE AND PRESSURE GAUGES.
2. ALL DISH MACHINES ARE HIGH HEAT, REACHING 160 DEGREES; OR LOW HEAT WITH CHLORINE-BASED CLEANER AT APPROPRIATE PPM FOR MACHINE/CHEMICAL.
3. THE THREE COMPARTMENT SINK HAS A DRAIN BOARD ON EITHER SIDE.
4. ALL STORES HAVE A GREASE INTERCEPTOR. ALL GREASE INTERCEPTORS ARE CLEANED ON A QUARTERLY BASIS.

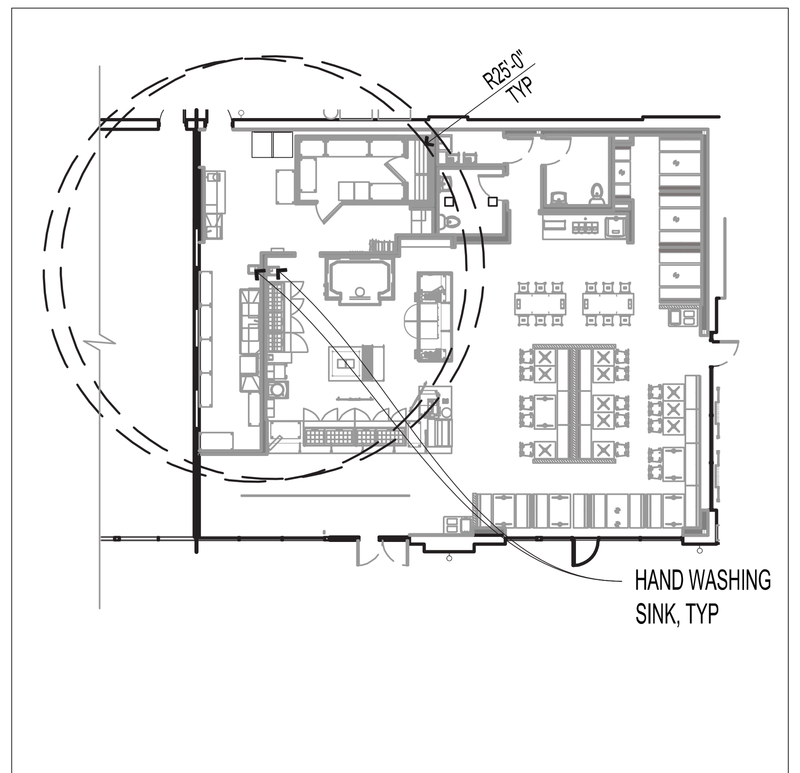
PEST CONTROL:
1. ALL EXTERIOR DOORS ARE SELF-CLOSING. EXTERIOR OF BUILDINGS ARE REQUIRED TO BE KEPT CLEAN OF LITTER.
2. ALL PIPES AND ELECTRICAL CONDUIT CHASES, VENTILATION SYSTEMS, ETC. ARE SEALED/PROTECTED.
3. ALL STORES RECEIVE A MONTHLY PEST CONTROL SERVICE.

COOKING:
1. MOD MAKES EACH PIZZA AND SIDE ITEM TO ORDER FOR EACH CUSTOMER. THERE IS NO HOT HOLDING OF ANY FOOD IN THE RESTAURANT. COLD HOLDING PRIMARILY OCCURS IN THE REFRIGERATED MAKELINES WHERE PIZZAS AND SALADS ARE MADE. THERE ARE A FEW SAUCES AT THE EXPO STATION THAT ARE KEPT ON ICE. MODS RED SAUCE DOES NOT REQUIRE REFRIGERATION FOR FOOD SAFETY PER FDA'S PH/WATER ACTIVITY MODEL, BUT IS HELD COLD FOR PREFERENCE AND CONSISTENCY.
2. VEGETABLES ARE ROASTED IN HOUSE.
3. THE VEGETABLES ARE ROASTED IN A SINGLE LAYER. THE PAN IS PLACED IN THE 800°F OVEN. VEGETABLES ARE ROASTED UNTIL GOLDEN BROWN AND SOFT AND TO A TEMPERATURE >135°F.

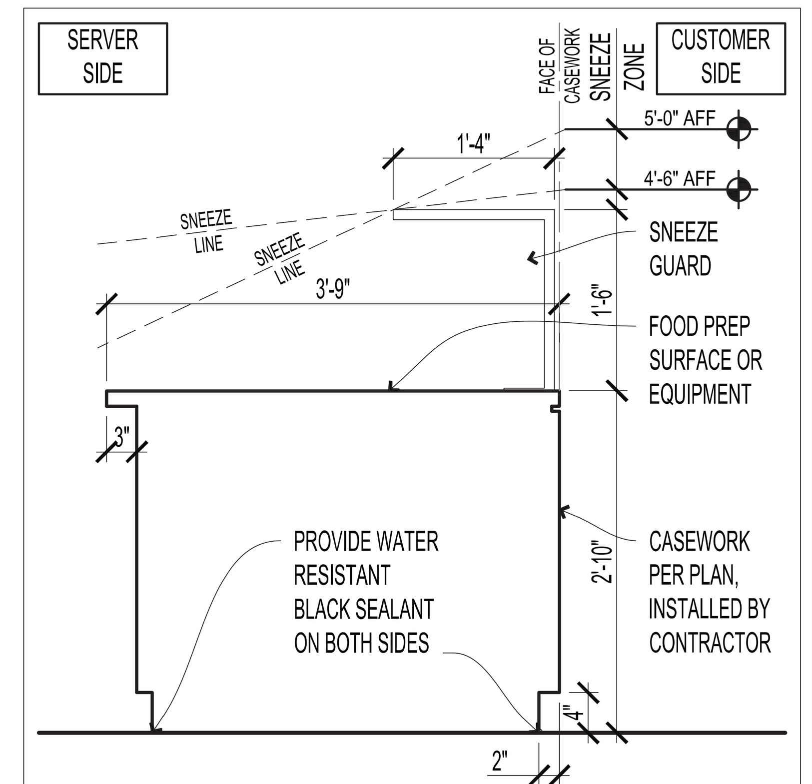
COOLING:
1. ROASTED VEGETABLES MAY BE PREPARED AND COOLED 12-HOURS IN ADVANCE OF SERVICE.
2. AFTER ROASTING THE VEGETABLES ARE COOLED BY TRANSFERRING INTO A SINGLE LAYER SHALLOW PAN. SHALLOW PANS ARE TRANSFERRED TO THE WALK-IN FOR COOLING.
3. ROASTED VEGETABLES BEGIN THE COOLING PROCESS >135°F.
4. AFTER ONE HOUR THE TEMPERATURE OF THE COOLING VEGETABLES IS TAKEN AND DOCUMENTED. IF PRODUCT IS VERIFIED <41°F, VEGETABLES ARE TRANSFERRED INTO MAKELINE PANS, LABELED, AND COVERED. IF PRODUCT IS >41°F COOLING PROCESS CONTINUES.
5. AFTER TWO HOURS THE TEMPERATURE OF THE COOLING VEGETABLES IS TAKEN AND DOCUMENTED. IF PRODUCT IS VERIFIED <41°F, VEGETABLES ARE TRANSFERRED INTO MAKELINE PANS, LABELED, AND COVERED. IF PRODUCT IS >70°F PRODUCT IS DISCARDED. IF <70°F COOLING PROCESS CONTINUES.
6. EACH ADDITIONAL HOUR TO A MAXIMUM OF SIX TOTAL COOLING HOURS PRODUCT TEMPERATURE IS TAKEN. IF PRODUCT IS VERIFIED <41°F, VEGETABLES ARE TRANSFERRED INTO MAKELINE PANS, LABELED, AND COVERED. IF PRODUCT IS >41°F AFTER SIX TOTAL COOLING HOURS PRODUCT IS DISCARDED.

REHEATING:
1. ROASTED VEGETABLES ARE REHEATED ON PIZZAS AND WILL REACH AND INTERNAL TEMPERATURE OF ≥165°F. ALL PIZZAS ARE MADE TO ORDER AND COOKED IN FRONT OF THE CUSTOMER. PIZZAS ARE COOKED IN AN 800°F OVEN FOR 5 MINUTES UNTIL CHEESE IS MELTED, BUBBLING, TOPPINGS ARE HEATED THROUGH, AND CRUST IS GOLDEN AND CRISPY.
2. THE ONLY HEATING UNIT IN THE RESTAURANT IS THE PIZZA OVEN.

ADDITIONAL INFORMATION:
1. MOD PIZZA DOES NOT PURCHASE OR STORE RAW PROTEINS OR SEAFOOD.
2. ALL FROZEN PRODUCTS ARE THAWED IN WALK-IN COOLER.
3. NO FOOD IS SERVED OFF-PREMISE.
4. MOD PIZZA DOES NOT HAVE ANY ROP PRODUCTS.

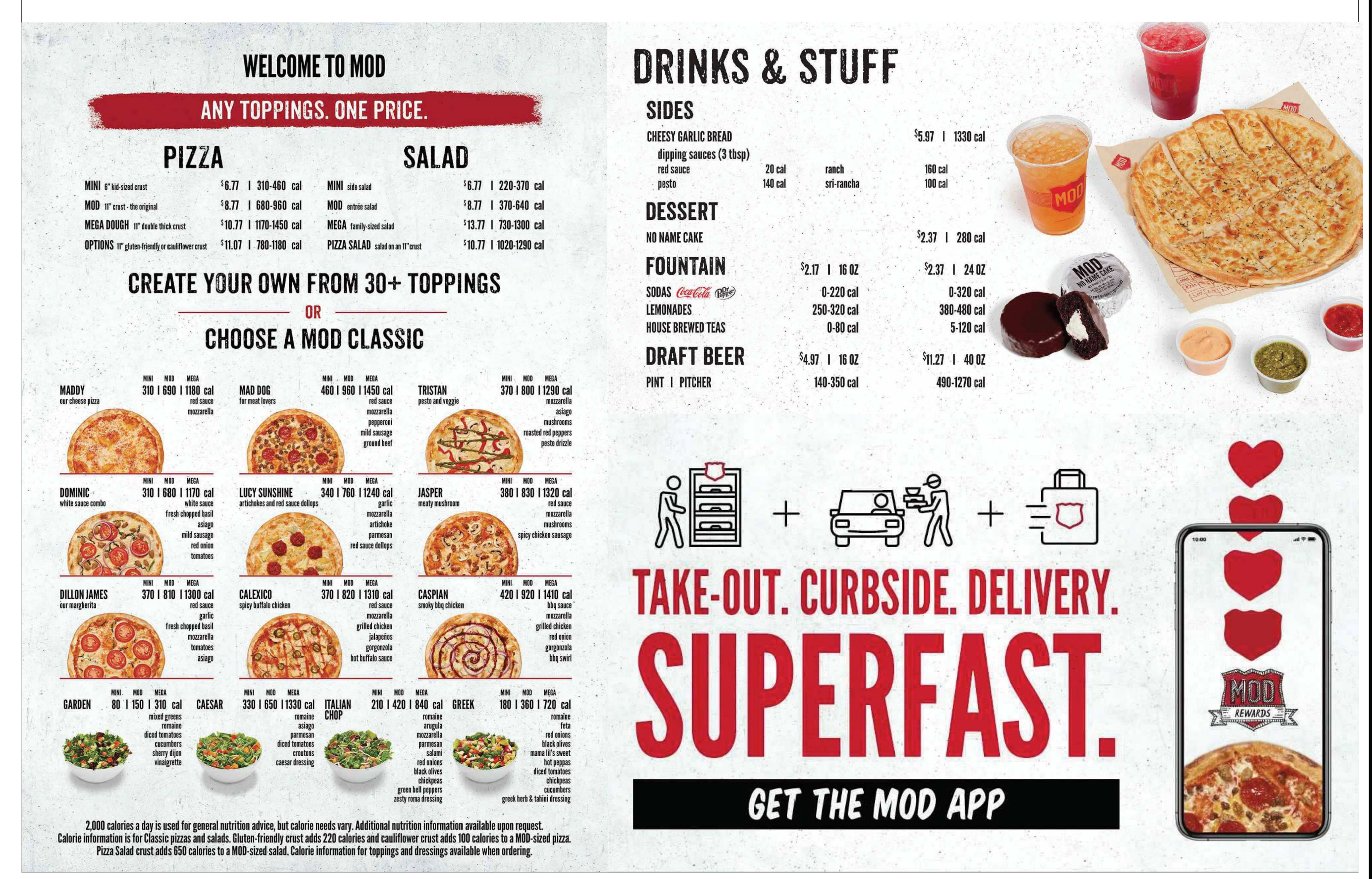


1 HAND SINK PLAN
SCALE: NTS



2 SNEEZE GUARD SECTION
SCALE: NTS

MOD MENU



OWNER

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

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INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

**ARCHITECTURE
ENGINEERING
PERMITTING**

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2009137570
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:35:06 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-004
HEALTH DEPARTMENT INFORMATION

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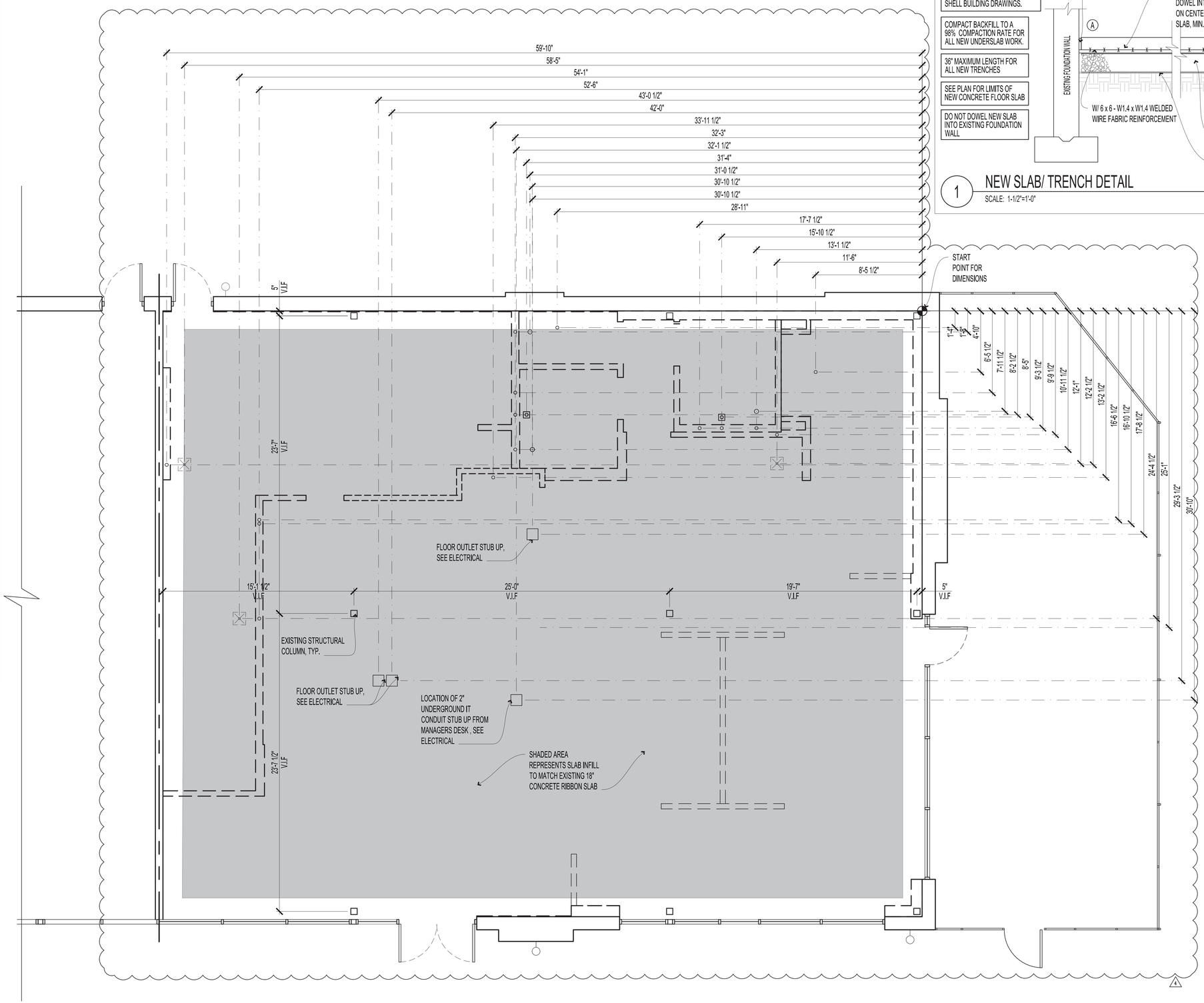


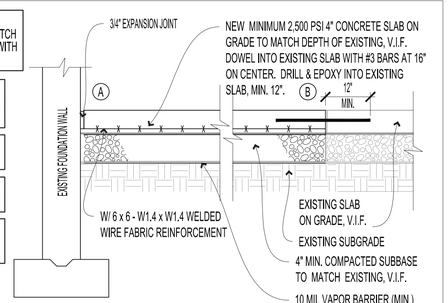
ALL NEW SLAB WORK AND UNDERGROUND WORK TO MATCH EXISTING. V.I.F. AND VERIFY WITH SHELL BUILDING DRAWINGS.

COMPACT BACKFILL TO A 98% COMPACTION RATE FOR ALL NEW UNDERSLAB WORK.

36" MAXIMUM LENGTH FOR ALL NEW TRENCHES

SEE PLAN FOR LIMITS OF NEW CONCRETE FLOOR SLAB

DO NOT DOWEL NEW SLAB INTO EXISTING FOUNDATION WALL



1 NEW SLAB/ TRENCH DETAIL
SCALE: 1-1/2"=1'-0"

SHEET NOTES

1. PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING CONSTRUCTION.
2. SAWCUT EXISTING CONCRETE SLAB & TRENCH TO INSTALL UNDERSLAB CONDUIT & PIPING. PROVIDE NEW CONCRETE SLAB PER DETAIL 1/A-101. AT TRENCH AREAS IN RESTROOMS AND KITCHEN, POUR BACK CONCRETE FLOOR TO SLOPE TOWARDS FLOOR DRAINS AND FLOOR SINKS WITH 1/4 " PER FOOT SLOPE MINIMUM, TAPER AT JOINT WITH EXISTING CONCRETE SLAB TO AVOID TRIP HAZARDS.
3. WHEN NEW SLAB REQUIRED INDICATE AND DIMENSION SLAB CONTROL JOINTS (20' MAXIMUM IN EACH DIRECTION).
4. REFER TO PLUMBING PLAN FOR PENETRATION SIZES AND TYPES.
5. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY OWNER OF ANY DISCREPANCIES.
6. DASHED LINES REPRESENT NEW PARTITIONS TO BE CONSTRUCTED AND ARE SHOWN FOR CLARITY IN LOCATING THE SLAB PENETRATIONS.
7. COORDINATE PLUMBING, ELECTRICAL, AND DATA PENETRATIONS WITH FRAMING PLAN. SEE MEP SHEETS.
8. EXTENT OF TRENCHING FOR UNDERGROUND UTILITIES IS NOT INDICATED AND IS CONTRACTOR'S OPTION, MINIMIZE AREA OF TRENCHING REQUIRED, MINIMIZE TRENCHING IN PUBLIC AREAS WHERE POSSIBLE.
9. CONCRETE SLAB TO ALIGN FLUSH WITH EXISTING CONCRETE RIBBON SLAB.

SHEET SYMBOLS

- NEW PARTITIONS, SEE A-111
- SLAB PENETRATION, SEE PLUMBING DRAWINGS
- FLOOR DRAIN, SEE PLUMBING DRAWINGS
- FLOOR SINK, SEE PLUMBING DRAWINGS

NORTH

0 1' 2' 4' 8'
SCALE: 1/4"=1'-0"

OWNER
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A-101
SLAB PLAN

CHECKED: EM DRAWN: AL

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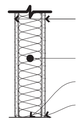
02/02/2022

THE PARTITION-TYPE DESIGNATION OR WALL-TYPE DESIGNATION IS A THREE-UNIT CODE THAT INDICATES THE CONFIGURATION, MATERIAL SIZES AND INSULATION OF THE PARTITION AS FOLLOWS:

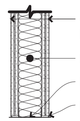
1 A 4 — MATERIAL SIZE; INSULATION TYPE; VERTICAL CONFIGURATION

- - NO INSULATION
- a BATT ACOUSTICAL INSULATION
- t BATT THERMAL INSULATION



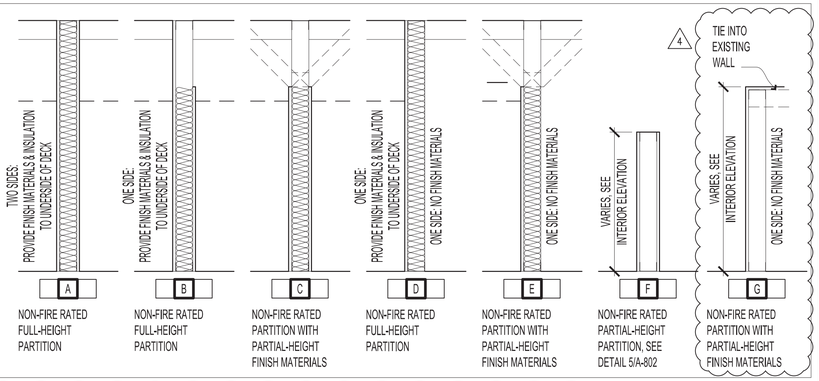
- 1 STUD SIZE: 3 5/8", GYP BD ON BOTH SIDES
- 2 STUD SIZE: 6", GYP BD ON BOTH SIDES
- 3 STUD SIZE: 3 5/8", PLYWD ON ONE SIDE, GYP BD ON OTHER SIDE
- 4 STUD SIZE: 6", PLYWD ON ONE SIDE, GYP BD ON OTHER SIDE
- 5 STUD SIZE: 3 5/8", PLYWD ON BOTH SIDES
- 6 STUD SIZE: 6", PLYWD ON BOTH SIDES

- 7 STUD SIZE: 3 5/8", GYP BD
- 8 STUD SIZE: 3 5/8", PLYWD
- 9 STUD SIZE: 6", GYP BD
- 10 STUD SIZE: 6", PLYWD



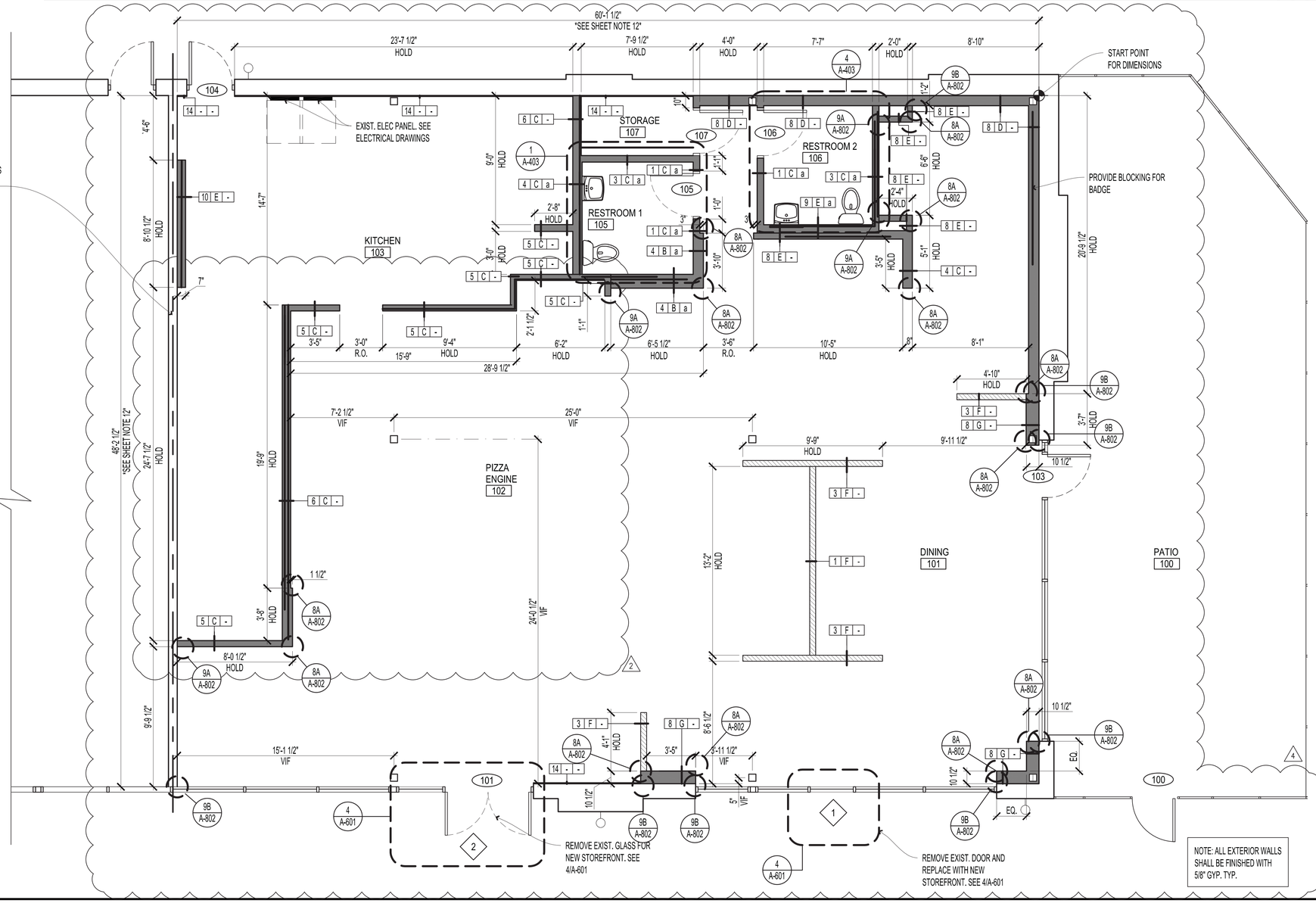
- 11 STUD SIZE: 3 5/8", (2) 5/8" TYPE X GYP BD ON BOTH SIDES**
- 12 STUD SIZE: 6", (2) 5/8" TYPE X GYP BD ON BOTH SIDES**
- 13 **2HR RATED WALL, G.C. TO BUILD PER DESIGN NO. U419

4 — 14 UNFINISHED EXTERIOR WALLS SHALL BE FINISH WITH 5/8" GYPSUM BOARD, TYP.



1 WALL TYPES
SCALE: NTS

EXISTING DEMISING WALL GC TO VERIFY LOCATION AND EXISTING FIRE RATING. NOTIFY TENANT AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF ANY WORK. G.C. TO VERIFY EXISTING FIRE RATING WITH INSPECTOR PRIOR TO THE START OF ANY NEW WORK AND UPGRADE AS REQUIRED.



SHEET NOTES

1. PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING CONSTRUCTION.
2. REFER TO SLAB PLAN AND PLUMBING PLANS FOR UNDERSLAB PLUMBING REQUIREMENTS.
3. PROVIDE BLOCKING AND BACKING AS DEFINED IN SPECIFICATION SECTION 092200 IN EXISTING PARTITIONS AND NEW PARTITIONS.
4. ALL ANGLED WALLS ARE AT 45°, 90° OR 135° UON.
5. PROVIDE CEMENT BOARD UP TO 24" AFF WITH FRT PLYWOOD ABOVE ON KITCHEN SIDE OF PARTITIONS THROUGHOUT KITCHEN UNLESS OTHERWISE NOTED. FULL SHEETS OF PLYWOOD ABOVE CEMENT BOARD TO BE ORIENTED 8' IN VERTICAL DIRECTION.
6. EXTEND GYPSUM BOARD TO DECK ON EXISTING EXTERIOR WALLS IN AREAS WITH OPEN TO STRUCTURE CEILINGS WHERE REQUIRED TO ACHIEVE A SMOOTH AND UNIFORM SURFACE WITH EXISTING ADJACENT FINISHES FOR NEW FINISH APPLICATION.
7. RESTROOMS - PROVIDE MOISTURE BOARD FULL HEIGHT, PROVIDE CEMENT BOARD WHERE WALL TILE INSTALLED
8. WHERE CEILING OCCURS, EXTEND FINISH MATERIALS 6" ABOVE CEILING
9. WHERE NO CEILING OCCURS EXTEND FINISH MATERIALS TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE
10. DECK AND SUPPORTING STRUCTURE SHOWN SCHEMATICALLY, SEE DETAILS FOR ACTUAL CONFIGURATION, TYP
11. PROVIDE INSULATION ONLY WHERE INDICATED BY PARTITION TYPE INDICATOR
12. CONTRACTOR TO VERIFY EXISTING DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ANY AND ALL WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION

PARTITION KEY

- EXISTING
- NEW CONSTRUCTION
- NEW CONSTRUCTION WITH BLOCKING
- PARTIAL HEIGHT WALL

SHEET SYMBOLS

- XX XX XX — PARTITION TYPE INDICATOR, SEE 1/A-111
- XXX — DOOR INDICATOR, SEE A-601
- X — WINDOW TYPE INDICATOR, SEE 4/A-601

NORTH
0 1' 2' 4' 8'
SCALE: 1/4"=1'-0"

OWNER
MOD
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Bellevue, WA 98008

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460 NW CHIPMAN RD
LEES SUMMIT, MO 64086

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A-111
FLOOR PLAN

CHECKED: EM DRAWN: AL

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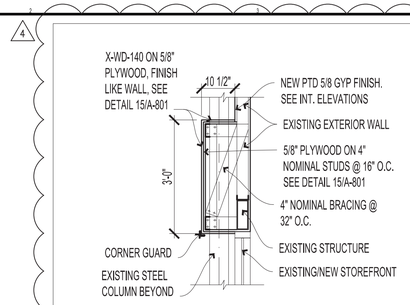
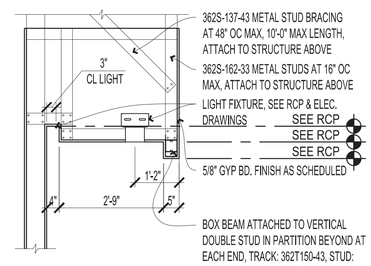
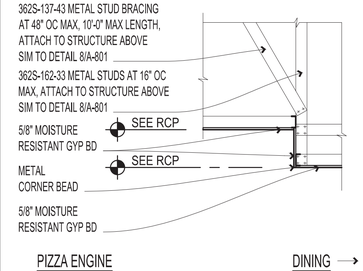


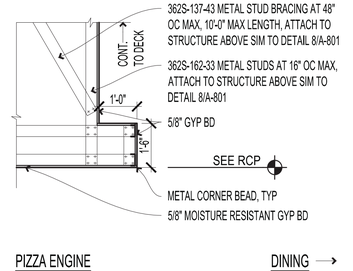
4 SOFFIT @ STOREFRONT SECTION
SCALE: 1/2"= 1'-0"



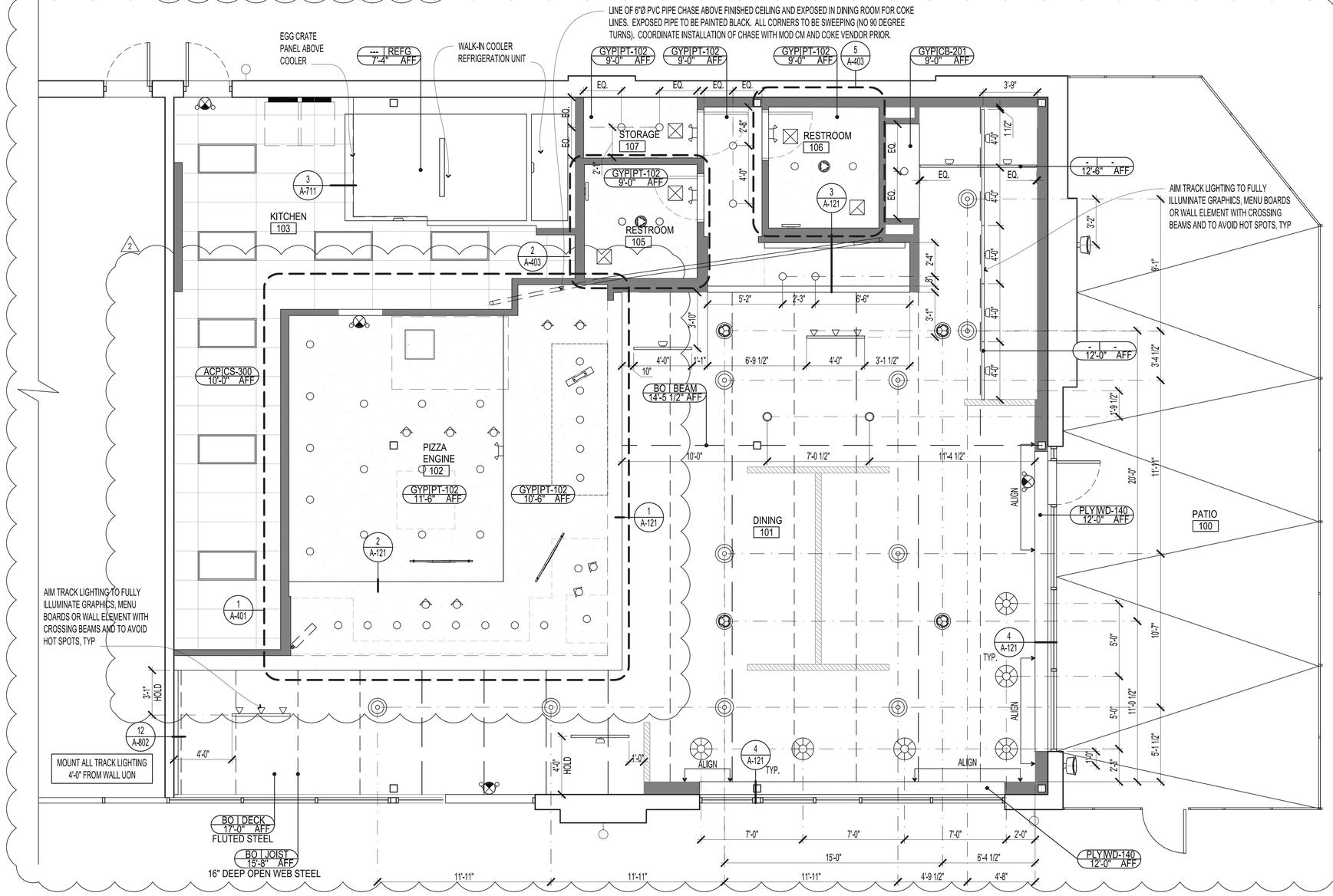
3 BEVERAGE STATION SECTION
SCALE: 1/2"= 1'-0"



2 ENGINE SOFFIT SECTION
SCALE: 1/2"= 1'-0"



1 EYEBROW SOFFIT SECTION
SCALE: 1/2"= 1'-0"



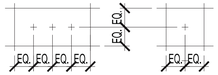
FIXTURE LEGEND

SEE ELECTRICAL FOR MORE INFORMATION

	L-101	
	L-102	
	L-110	11'-0" AFF
	L-111	
	L-112	
	L-150	
	L-151	
	L-202	12'-0" AFF
	L-203	9'-0" AFF
	L-250	
	L-260	6'-10" AFF
	L-261	7'-4" AFF
	L-460	7'-0" AFF
	L-490	7'-0" AFF
	L-501	
	L-503	8'-0" AFF
	L-504	11'-0" AFF
	L-600	
	E-512	10'-0 - 12'-0" AFF
	E-513	10'-0 - 12'-0" AFF
	E-514	10'-0 - 12'-0" AFF

SHEET NOTES

1. LIGHTING, ELECTRICAL EQUIPMENT, HVAC EQUIPMENT AND SPRINKLERS TO BE MOUNTED AT POINTS IN ACP AS NOTED IN GRAPHIC BELOW, UON.



2. CENTER ACP GRID WITHIN EACH ROOM UON.
3. PAINT ALL EXPOSED FIRE SPRINKLER PIPING AND SUPPORTS PT-117 OR COLOR REQUIREMENT PER FIRE MARSHAL.
4. LIGHT FIXTURES TO BE LOCATED AS INDICATED ON THIS PLAN OR CENTERED OVER FIXED DINING TABLES. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING. REFER TO LIGHT FIXTURE SCHEDULE ON ELECTRICAL SHEETS FOR QUANTITIES. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
5. LIGHT FIXTURE HEIGHTS ARE INDICATED AS CLEAR ABOVE FINISH FLOOR AND TO BOTTOM OF THE LIGHT FIXTURE, UON. VERIFY FLOOR FINISH THICKNESS PRIOR TO CEILING INSTALLATION.
6. LIGHT FIXTURES ARE LOCATED TO CENTERLINE, UON.
7. LIGHT FIXTURES OVER FOOD PREPARATION AREAS TO HAVE SHATTER RESISTANT AND CLEANABLE LENSES.
8. MECHANICAL DUCT WORK INDICATED FOR REFERENCE ONLY. REFER TO MECHANICAL DRAWINGS FOR LAYOUT, EXHAUST FAN LOCATIONS.
9. WHERE NO CEILING FINISH SYSTEM OCCURS:
   A. TOP OF MECHANICAL DUCT WORK PARALLEL TO EXISTING STRUCTURE TO BE ROUTED BETWEEN EXISTING STRUCTURE AND 6" MAXIMUM BELOW EXISTING DECK.
   B. TOP OF MECHANICAL DUCT WORK CROSSING OR PERPENDICULAR TO EXISTING STRUCTURE TO BE 3" MAXIMUM BELOW BOTTOM OF EXISTING STRUCTURE.
10. IN OPEN TO STRUCTURE AREAS, MECHANICAL GRILLE COLOR TO MATCH DUCT COLOR OR PARTITION/SOFFIT COLOR WHEN LOCATED IN FACE OF PARTITION/SOFFIT.
11. ALL PLUMBING PIPING AND ELECTRICAL CONDUIT AND WIRING TO BE STRAIGHT, NEAT AND HELD TIGHT TO EXISTING DECK OR EXISTING STRUCTURE.
12. CEILINGS AND SOFFITS TO BE PLUMB, LEVEL AND SQUARE TO ADJACENT PARTITIONS AND WALLS.
13. CEILING AND SOFFIT HEIGHTS ARE INDICATED AS CLEAR ABOVE FINISH FLOOR. VERIFY FLOOR FINISH THICKNESS PRIOR TO CEILING INSTALLATION.
14. COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING INSTALLATIONS IN ORDER TO ACHIEVE AND MAINTAIN INDICATED CEILING AND SOFFIT HEIGHTS.
15. SPEAKER LOCATIONS, QUANTITIES AND TYPES INDICATED FOR REFERENCE ONLY. REFER TO ELECTRICAL SHEETS FOR SPEAKER INFORMATION.

SHEET SYMBOLS

EXTENT OF ACP CEILING, TO BE INSTALLED PER MANUFACTURE INSTRUCTIONS

EXTENT OF GYP BD CEILING

M | F
XX'-X" AFF

MATERIAL
FINISH
HEIGHT

CEILING INDICATOR: SEE A-131 CEILING PANEL, GRID, AND FINISH COLOR

NORTH

0 1' 2' 4' 8'
SCALE: 1/4"=1'-0"

OWNER
MOD
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ARCHITECT OF RECORD
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DAVID G. BOYCE
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460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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A-121
REFLECTED CEILING PLAN

CHECKED: EM DRAWN: AL

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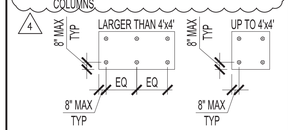
02/02/2022

SHEET NOTES

1. REFER TO A-121 FOR CEILING AND SOFFIT HEIGHTS.
2. ACOUSTIC PANELS MOUNTED TIGHT TO UNDERSIDE OF EXISTING DECK WHERE INDICATED WITH SELF TAPPING SST OVAL-HEAD SCREWS AND 1" DIAMETER SST BEAUTY WASHERS IN CONFIGURATION NOTED IN GRAPHIC BELOW. DO NOT FASTEN INTO UPPER FLUTE OF EXISTING DECK. NOTCH AS REQ. AT EXISTING COLUMNS.



3. FILL CEILING AREA INDICATED TO RECEIVE ACOUSTIC PANELS TO THE GREATEST EXTENT POSSIBLE USING FULL (48" x 96"), 1/2 OR 1/3 LENGTH PANELS AND FULL OR 1/2 WIDTH PANELS TO MINIMIZE WASTE. DO NOT CREATE COMPLEX CUTS AND SHAPES TO WORK AROUND OBSTRUCTIONS.
4. SPACE ACOUSTIC PANELS LENGTHWISE EQUALLY WITHIN EACH EXISTING STRUCTURAL BAY. MAINTAIN EQUAL SPACING DEFINED FOR SPECIFIC STRUCTURAL BAY AT OBSTRUCTIONS WHENWHERE THEY OCCUR. OBSTRUCTIONS MAY NOT BE INDICATED ON PLAN, VERIFY FIELD CONDITIONS PRIOR TO ESTABLISHING ACOUSTIC PANEL TAKE-OFF QUANTITY.
5. WHERE ACOUSTIC PANEL IS TO INSTALLED, AREAS OF REMAINING EXPOSED DECK TO REMAIN UNFINIISHED.

SHEET SYMBOLS

ACOUSTIC CEILING PANEL
TAG: CL-100
ITEM: 2X4 ACOUSTICAL CEILING PANEL
MODEL: SELECT SOUND ACOUSTIC BOARD
SIZE: 2'W X 4'L X 2" THICK
FINISH: BLACK
VENDOR: CONTRACTOR PROVIDED

NORTH
0 1' 2' 4' 8'
SCALE: 1/4"=1'-0"

OWNER
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460 NW CHIPMAN RD
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A-122
REFLECTED CEILING PLAN - BAFFLING

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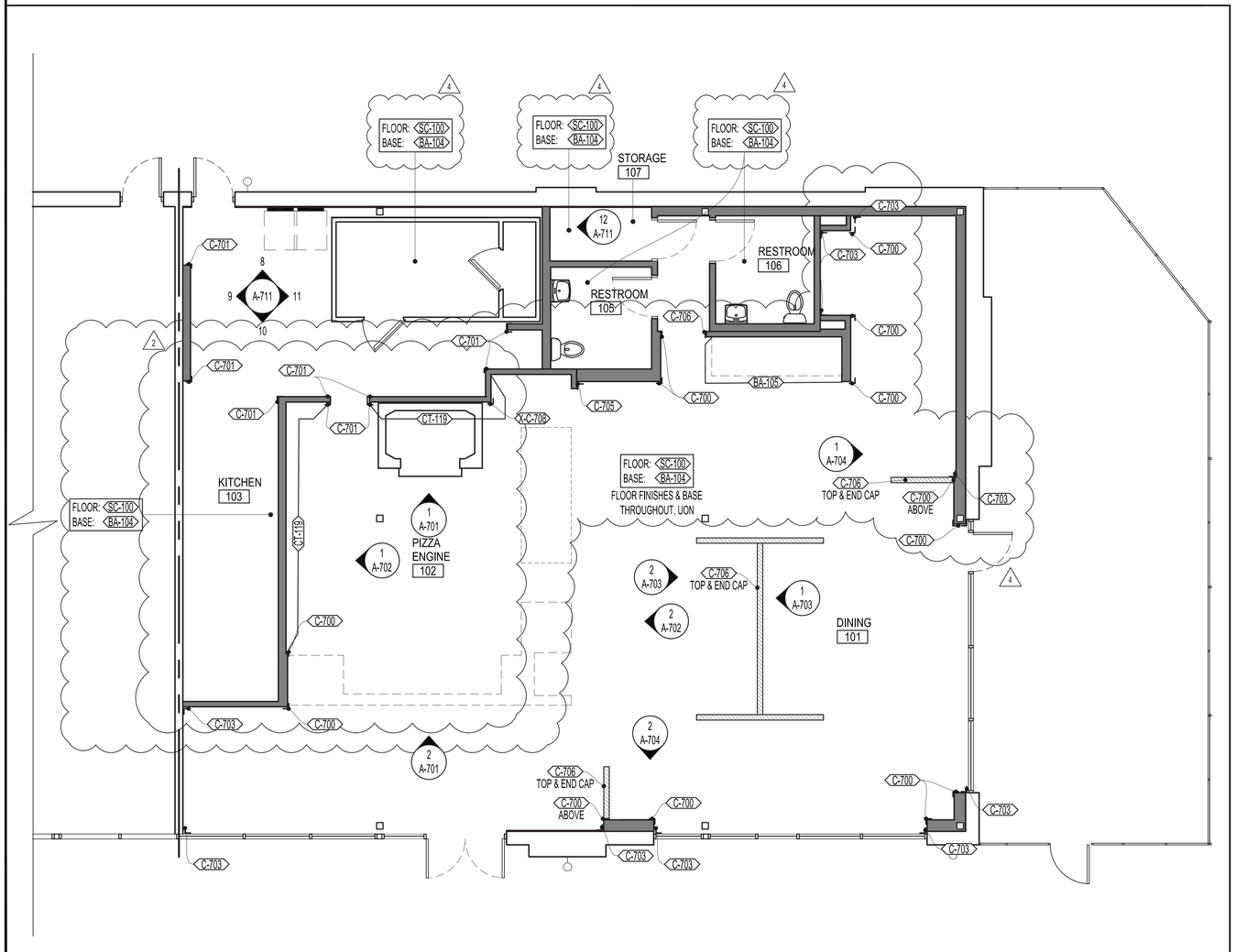
FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-105	FORBO WALL BASE - 4"	FORBO / WALL BASE / C35 LAVA	4"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
CEMENT/ CONCRETE BOARD *(CB) 100+						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN, SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces)*-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A36C1MOD 4X12C/B 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN 'CHARCOAL GRAY' FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
COUNTER SURFACE						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2": 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	--
FABRIC						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	--	--	*Prismatic Powders / PPB-4858 / Flattop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	--	WHITE	CASEWORK	--
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	--	BLACK; MATTE	CASEWORK	--
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y1287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-601 FOR DETAILS.
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	--	*Ceiling Bright White; Semi-gloss LRV: 83*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	--	*Caviar; Semi-gloss LRV: 3*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	--	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH # 8260-19865 MOD PIZZA TIM 0536	--	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	--	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	--	--	#4 FINISH	CONTRACTOR	--
WALLCOVERING						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FDN 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	--
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / VV035-00915	8.96" X 72.05" X 6MM	WADDINGTON OAK	CASEWORK	--
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO/ HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER- BASED COLOR	CONTRACTOR	--
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED .2320" WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	--



TRIM & WALL PROTECTION SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
TRIM & WALL PROTECTION (CONTRACTOR VERIFY QUANTITIES AND SIZES REQUIRED; CORNER GUARD TO GO FULL HEIGHT OF WALL U.N.O)							
--	C-700	ANGLED CORNER GUARD - HOT ROLLED STEEL	CASEWORK OR BFC METALS	1-1/2"W X 1-1/2"D X 108"L	HS-103	CASEWORK OR BFC METALS	START AT TOP OF BASE
--	C-701	ANGLED CORNER GUARD - STAINLESS STEEL	CUSTOM	2"W X 2"D X CUSTOM LENGTH	STAINLESS STEEL	CONTRACTOR	START AT TOP OF BASE
--	C-703	ANGLED CORNER GUARD - INSIDE CORNER	CASEWORK OR BFC METALS	3/4"W X 3/4"D X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	FOR WOOD WALL INSIDE CORNERS
--	C-704	CHAIR RAIL	CASEWORK OR BFC METALS	4"W X 96"L	HS-103	CASEWORK OR BFC METALS	EASED EDGES
--	C-706	WALL CAP STEEL TRIM	CASEWORK OR BFC METALS	CUSTOM WIDTH X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	VERIFY WALL LENGTH & DEPTH WITH PROPOSED FINISHES
--	X-C-708	SCHLUTER QUADEC - DARK ANTHRACITE	SCHLUTER / QUADEC Q-80-TSDA	8'-2-1/2"L X 1/4"W	DARK ANTHRACITE	CONTRACTOR	USE AT DARK TILE CORNERS

SHEET NOTES

1. VERIFY WITH OWNER FOR COMPLIANCE WITH ALL HEALTH DEPARTMENT CONDITIONS OF APPROVAL.
2. PROPER PREPARATION OF ALL NEW AND EXISTING SURFACES IN A SATISFACTORY MANNER TO RECEIVE NEW FINISHES. THIS INCLUDES THE DEMOLITION AND REMOVAL OF NECESSARY ITEMS. TOUCH-UP AND/OR REFINISH OF SURFACES DAMAGED BY SUBSEQUENT WORK. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS.
3. PAINTER SHALL REMOVE ALL HARDWARE, SWITCH COVERS, ETC. PRIOR TO PAINTING AND BE RESPONSIBLE FOR REINSTALLATION AFTER PAINTING IS COMPLETED.
4. ALL FINISHES SHALL BE TOUCHED UP TO CORRECT ANY IMPERFECTIONS AFTER APPLICATION. FIXTURE CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL MATERIALS FOR TOUCH UP WORK.
5. PAINT SURFACES TO RECEIVE GRAPHICS APPLIED DIRECTLY TO SURFACE OF WALL AT LEAST (1) WEEK PRIOR TO INSTALLATION OF GRAPHIC.
6. PAINT FINISH TO TRANSITION AT INSIDE CORNERS THROUGHOUT, UON.
7. ALL GWB OUTSIDE CORNERS TO RECEIVE FULL HEIGHT METAL CORNER BEAD.
8. NO ELECTRICAL DEVICES, SENSORS, THERMOSTATS, FIRE PROTECTION DEVICES OR LIGHT FIXTURES TO BE LOCATED ON THE GRAPHIC AREAS, OR WITHIN 6" OF WALL GRAPHIC, WALL ARTWORK, MENU BOARDS AND BADGES, UON. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
9. REFER TO INTERIOR ELEVATIONS FOR WALL FINISHES.

SHEET SYMBOLS

X-XXX FINISH TAG

C-XXX TRIM TAG

NORTH

SCALE: 3/16"=1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

CONSULTANT

220 E. CENTRAL PKWY, STE 4000
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PROJECT NO. 2021.0524

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2006026904
ARCHITECT

Digitally signed by David Boyce
Date: 2022.01.05 17:36:35 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-131

FLOOR FINISH/TRIM PLAN & FINISH SCHEDULE

CHECKED: EM DRAWN: AL

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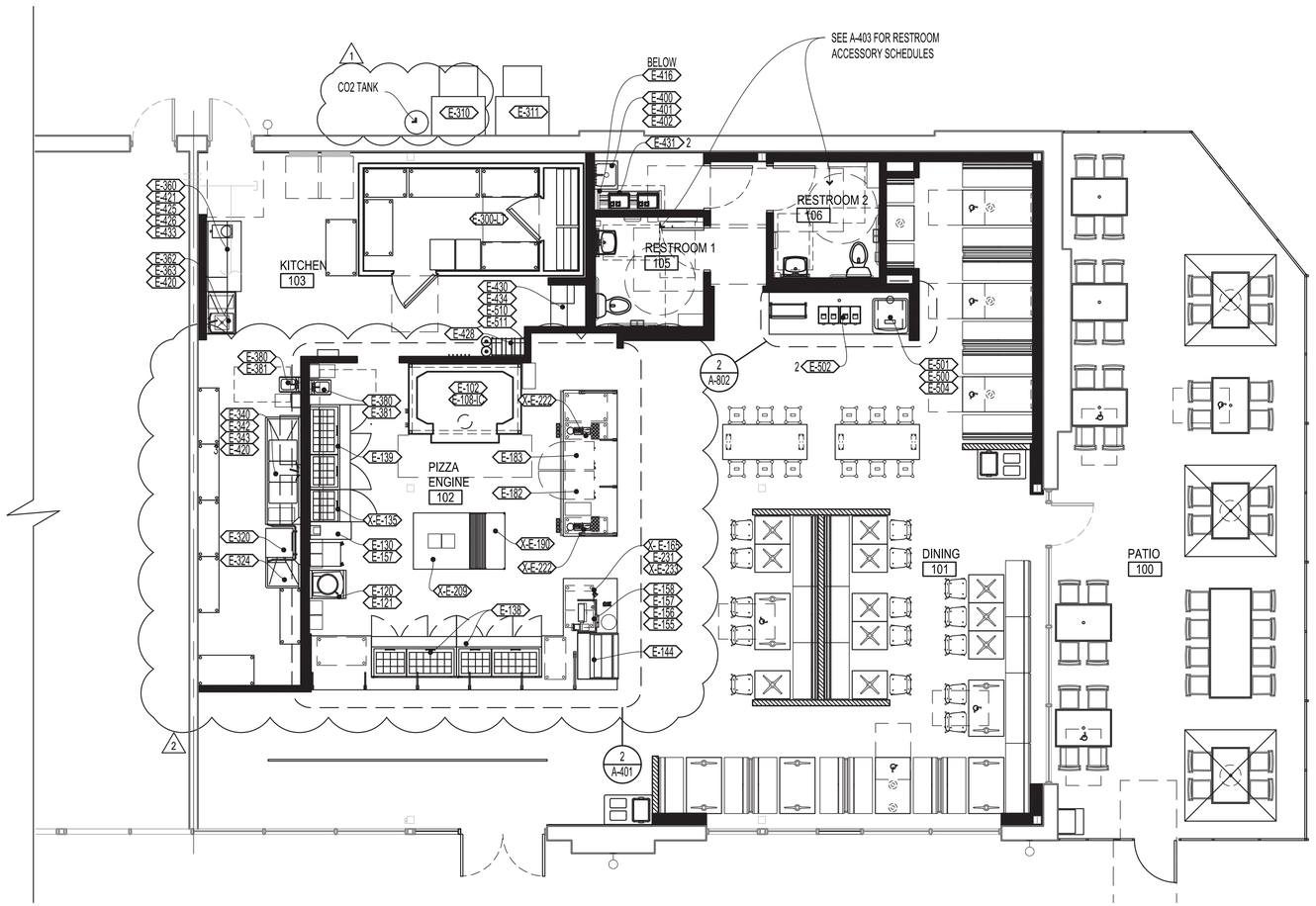
Development Services Department
Lee's Summit, Missouri
02/02/2022

EQUIPMENT SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	VENDOR	REMARKS
		ENGINE			
1	E-102	PIZZA OVEN DIRECT VENT SYSTEM	CAPTIVE AIR SYSTEMS / CUSTOM	CONTRACTOR	SOURCE ONLY FROM CAPTIVE AIRE NW REGION 85
1	**E-108-IC**	FIRE DECK OVEN - POWDERCOAT - ILLUSION CHERRY	WOOD STONE / FD-9660-RFGLR-IR (POWDERCOAT) PRISMATIC POWDERS / PMB 6905	EDWARD DON	EARLY INSTALL REQUIRED; EXTENDED LEAD TIME FOR POWDERCOAT OVENS
1	E-120	DOUGH PRESS	PIZZA EQUIPMENT PROFESSIONALS / PZF30-DF	EDWARD DON	12" BDL FLAT
1	E-121	DOUGH PRESS STAND	FENIX SOL / PRESSSTAND	EDWARD DON	WITH DRAWER, INSERT, DOUGH SPATULA & CASTERS
1	E-130	STAINLESS STEEL TABLE - 15"	FS IMPORTS / CUSTOM	EDWARD DON	--
1	X-E-135	REFRIGERATED COUNTER - 27" WITH HOOD	TRUE MANUFACTURING / TSSU-27-12M-C-ADA-HC	EDWARD DON	8-7/8" CUTTING BOARD; 5" CASTERS
2	E-138	REFRIGERATED COUNTER - 72" WITH FLAT LID	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODE)	EDWARD DON	8-7/8" CUTTING BOARD; 3" CASTERS
1	E-139	REFRIGERATED COUNTER - 72" WITH HOOD	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODC)	EDWARD DON	8-7/8" CUTTING BOARD; 5" CASTERS
1	E-144	REACH-IN COOLER - 40"	TURBO AIR / TOM-40S-N	EDWARD DON	CONTRACTOR TO INSTALL CASTERS, LOCKING CASTERS ON FRONT OF CASE
1	E-155	POS SCREEN	PAR / EVERSERV 600	PAR	COMES WITH FINGERPRINT READER
1	E-156	POS PRINTER	EPSON / TM-T88V	POSRG	--
2	E-157	POS INTERNET PRINTER	EPSON / TM-L90 PLUS	POSRG	--
2	E-158	POS CASH BOX	PAR / M8571-03	PAR	(1) ON COUNTER; (1) ON SHELF BELOW COUNTER
1	X-E-165	LOYALTY SCANNER	HONEYWELL / GENESIS 7580G	POSRG	
1	E-182	UNDERCOUNTER REFRIGERATOR - 24" - LEFT	TRUE / TUC-24-HC-LH	EDWARD DON	WITH RECESSED CASTERS; FRONT BREATHING
1	E-183	UNDERCOUNTER REFRIGERATOR - 24" - RIGHT	TRUE / TUC-24-HC-RH	EDWARD DON	WITH RECESSED CASTERS; FRONT BREATHING
1	X-E-190	DIGITAL PREP STATION	EAGLE GROUP / T3048EBW-2	EDWARD DON	WITH (2) 14" WIRE OVERSHELVES, (1) SOLID UNDERSHELF AND (2) 30" WIRE UNDERSHELVES

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	VENDOR	REMARKS
1	X-E-209	WOOD TOP PREP TABLE - 48X48	JOHN BOOS & CO / CUSTOM 48X48	EDWARD DON	INSTALL WITH CASTERS
2	X-E-222	SQUEEZE BOTTLE STATION - EIGHT	SERVER / 87340	EDWARD DON	USE WITH ICE OR EUTECTIC ICE PACKS; KEEPS SAUCES COLD FOR UP TO 4 HRS.
1	E-231	LANE/7000 EMV READER	INGENICO/ LANE/7000 TAILWIND / CST00166 (BACKPLATE) HILIPRO / SWIVEL STAND FOR PAX S300	PAR	INSTALL ON SWIVEL STAND USING BACKPLATE; SEE INSTALLATION GUIDE
1	X-E-233	CUP DISPENSER	VOLLRATH / K2H	EDWARD DON	INSTALL HORIZONTALLY ON METRO SHELF AT POS
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS; 8" BACKSPLASH
1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED; 4" OC
		KITCHEN			
1	**E-300-LT**	WALK-IN COOLER/FREEZER - 16' - LEFT	NORLAKE / MOD PIZZA 8X16 CP-2	EDWARD DON	(2) COMPARTMENT; 36" X 78" DOORS; 36" FREEZER DOOR STRIP CURTAIN; OREGON SEAL
1	E-310	CAPSULE PAK REFRIGERATION UNIT - COOLER	NORLAKE / RCPB100JC-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN COOLER; REFER TO INSTALLATION MANUAL
1	E-311	CAPSULE PAK REFRIGERATION UNIT - FREEZER	NORLAKE / RCPF075JC-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN FREEZER; REFER TO INSTALLATION MANUAL
1	E-320	DISHWASHER	ECOLAB / ES-2000HT	ECOLAB	INTEGRAL VAPOR VENT
1	**E-324**	CLEAN DISH TABLE - RIGHT	FENIX SOL / 18-CDT-26 CLEAN TABLE RIGHT	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	**E-340**	THREE COMPARTMENT SINK - LEFT	FENIX SOL / 16-DDTS-90 3-COMP SOILED L	EDWARD DON	(3) TUBS; 1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	E-342	THREE COMPARTMENT SINK FAUCET & SPRAYER	FISHER / 73135	EDWARD DON	SPLASH MTD; SPRING ACTION FLEXIBLE GOOSENECK; WALL BRACKET
1	E-343	THREE COMPARTMENT SINK DISPENSER	SSDC / SINK RITE DOUBLE UNIT	SSDC	CONNECT TO SPRAYER WATER SUPPLY LINE
1	E-360	PREP TABLE - STAINLESS STEEL	FENIX SOL / 16-3-WT30X60G-4	EDWARD DON	1-1/2" STALLION EDGE; 5" BACKSPLASH; MOUNT BOTTOM SHELF W/ #8 X 1 SELF-TAPPING SCREWS 6" AFF; ATTACH TABLE TO PARTITION
1	**E-362**	PREP SINK - RIGHT	FENIX SOL / 18G-1C1620-D18 1COMP SINK R	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 9" BACKSPLASH
1	E-363	PREP SINK FAUCET	FISHER / 3252	EDWARD DON	SPLASH MOUNTED; 8" OC
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS; 8" BACKSPLASH

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	VENDOR	REMARKS
1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED; 4" OC
4	E-420	SINK TRIP LEVER STRAINER	FISHER / 52434	EDWARD DON	DRAINKING WASTE VALVE
1	E-421	TEA BREWER & DISPENSER	BUNN / 36700.0059 TB3Q, 34100.0000 TDO-4	EDWARD DON	WITH HANDLED DISPENSER
1	E-425	BIG STIK - 16" IMMERSION BLENDER	WARING COMMERCIAL / WSB60	EDWARD DON	--
1	E-426	DOUGH PRESS BACKUP	DOUGHXPRESS / DMS-2-18	EDWARD DON	(1) PER REGION
2	E-428	COKE BIB RACK	MCCANN'S / IC 44239	COCA COLA	CO2 TANK LOCATED OUTSIDE, SEE PLAN
1	E-430	AUDIT SAFE	AMSEC / DSF2516	EDWARD DON	INSTALL W/ 6" BASE. PROVIDED
1	E-433	CAN OPENER	VOLLRATH / BCO-1	EDWARD DON	MANUAL. QUICK CHANGE
1	E-434	9U NETWORK RACK	TRIPP-LITE / SMARTRACK SRW9UG	RTGPOS	INSTALLED AT MANAGER'S DESK
1	E-510	AUDIO AMPLIFIER	BOSE / POWERSHARE PS602	RTGPOS	LOCATE AT MANAGER'S DESK
1	E-511	AUDIO CONTROL CENTER	BOSE / CONTROLCENTER CC-1	RTGPOS	(2) CONTROLS FOR (2) ZONES; LOCATE ON LEFT WALL OF MANAGER'S DESK
		DINING			
1	E-500	SODA MACHINE	CORNELIUS / DF200 PART #621053001	COCA COLA	--
1	E-501	ICE MACHINE	ICE-O-MATIC / GEMO956A	EDWARD DON	CHEWABLE ICE CRYSTALS
2	E-502	JUICE DISPENSER	GRINDMASTER / CRATHCO CECILWARE D25-3	EDWARD DON	(2) 5-GAL CLEAR BOWLS; LOW FOAM IMPELLER
1	E-504	WATER FILTRATION SYSTEM - 1	KINETICO / SMF ICEPRO 600	EDWARD DON	INSTALL AT BEVERAGE CASEWORK UNDER COKE MACHINE
4	E-512	SPEAKER - DINING	BOSE / FREESPACE DS 100F	POSRG	--
2	E-513	SPEAKER - RESTROOM	BOSE / FREESPACE DS 16F	POSRG	--
2	E-514	SPEAKER - PATIO	BOSE / FREESPACE DS 100SE	POSRG	--
		STORAGE			
1	E-400	MOP SINK	ELKAY / FLR-3X	CONTRACTOR	2" FREE FLOW DRAIN; 3-1/2" FLAT STRAINER
1	E-401	MOP SINK FAUCET	FISHER / 8253	EDWARD DON	SERVICE SINK FAUCET WITH LONG SPOUT & VACUUM BREAKER
1	E-402	MOP SINK DISPENSER	SSDC / MOP RITE 3	SSDC	CONNECT TO DEDICATED WATER SUPPLY LINE
2	E-431	NAT GAS TANKLESS WATER HEATER	NORITZ / NCC199CDV (GQ-C3259WZ-FF US NG)	CONTRACTOR	SEE MECHANICAL DRAWINGS



SHEET NOTES

1. REFER TO SHEET A-001 RESPONSIBILITY SCHEDULE FOR SCOPE CLARIFICATION.
2. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS, POWER, DATA, PLUMBING, HVAC, DRAINAGE AND VENTILATION REQUIREMENTS.
3. COORDINATE FINAL LOCATIONS AND QUANTITIES OF FIXTURES AND FURNITURE WITH OWNER BEFORE INSTALLATION, INCLUDING COORDINATING POWER, FIXTURE ANCHORAGE AND SLEEVES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER AND DATA INFORMATION.
4. LOCATE FIXTURES AND FURNITURE TO MAINTAIN 36" CLEAR BETWEEN AND A 44" WIDE EGRESS PATH TO EXIT DOOR.
5. ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

SHEET SYMBOLS

X-XXX EQUIPMENT TAG

NORTH

0 1' 2' 4' 8'
SCALE: 3/16"=1'-0"

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

CONSULTANT

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ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2008035570
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:36:54 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-132
EQUIPMENT PLAN

CHECKED: EM DRAWN: AL

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

MISCELLANEOUS SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).

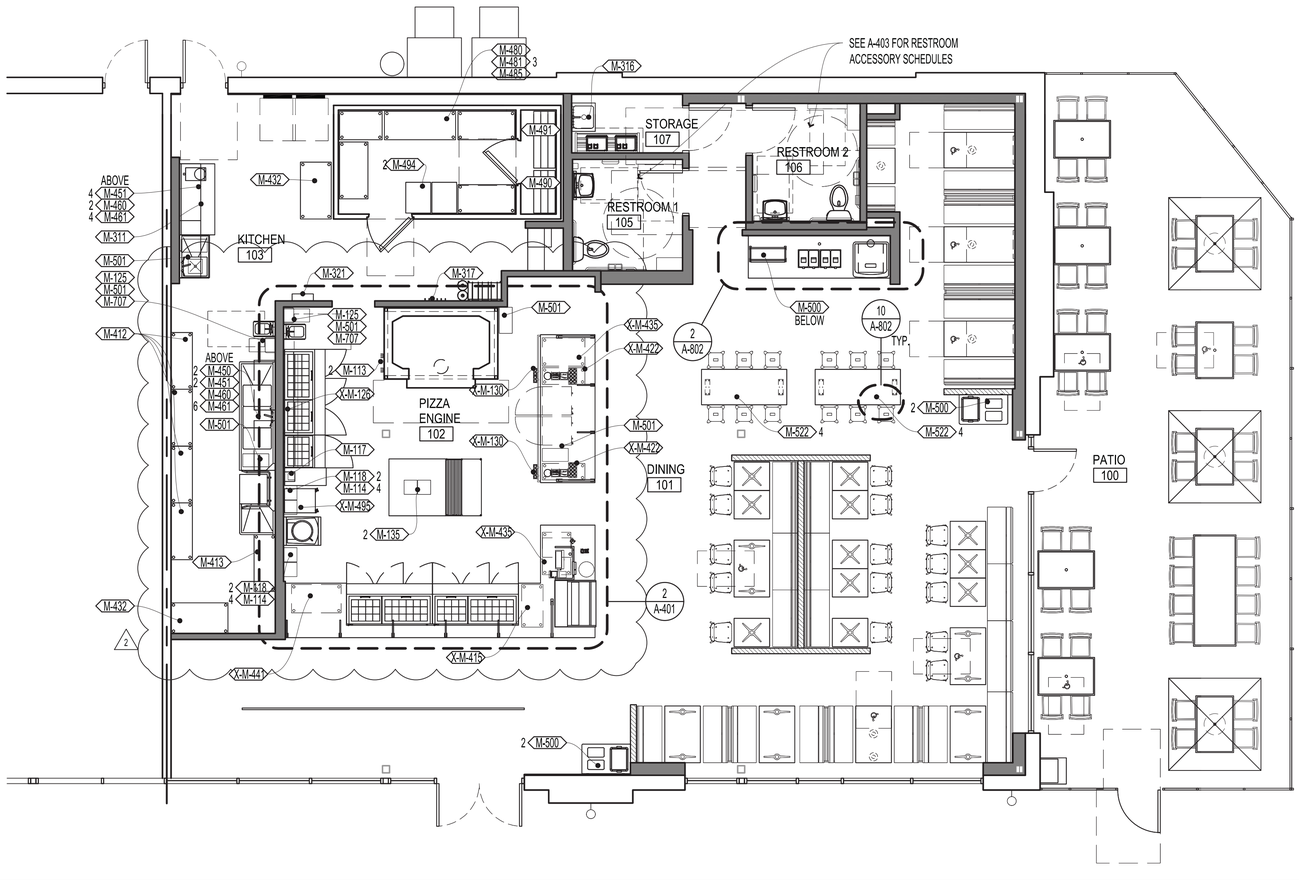
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	VENDOR	REMARKS
		ENGINE				
2	M-113	HOOK FOR PIZZA PADDLES	STANLEY NATIONAL HARDWARE / 8007	3" DOUBLE ROBE HOOK	EDWARD DON	(2) PER STORE
8	M-114	PIZZA RACK HOOKS	STANLEY NATIONAL HARDWARE / 8006	2" SINGLE ROBE HOOK	EDWARD DON	(2) PER PIZZA RACK AT UPPER CORNERS
1	M-117	ONLINE ORDER PRINTER SHELF	J&K CONSTRUCTION / CUSTOM	8-1/8"W X 9-1/2"D X 9-3/8"H	EDWARD DON	--
4	M-118	PIZZA RACK - 15 TIER	AMERICAN METALCRAFT / 19029	12"W X 12"D X 27-1/2"H	EDWARD DON	WALL MOUNTED; (15) SHELVES
1	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
1	X-M-126	STAINLESS STEEL SHELF - 96"	FENIX SOL / WMS12X96	96"W X 12"D X 6.5"H	EDWARD DON	--
2	X-M-130	SPEED RACK CADDY - 12"	CUSTOM	12"W X 3-1/4"D X 6"H	CASEWORK	ATTACH TO CUSTOM RAIL AT EXPO COUNTER
2	M-135	PIZZA RACK - 10 TIER	AMERICAN METALCRAFT / 19033	16"W X 16"D X 27-1/2"H	EDWARD DON	TABLE TOP; (10) SHELVES
1	X-M-495	DOUGH SPEED RACK - HALF SIZE	ADVANCE TABCO / PDB7	20-1/4"W X 26"D X 33-3/4"H	EDWARD DON	SOLID TOP; 7 DOUGH BOX CAPACITY; 5" CASTERS
3	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354060BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER
1	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	--
		KITCHEN				
1	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
1	M-311	MAGNETIC KNIFE HOLDER	MUNDAIL / 5512	12"W	EDWARD DON	WITH PLASTIC POUCH
1	M-317	EMPLOYEE COAT HOOK RACK	NYSTROM / UTILITY HOOK RACK 169	19.7"W X 1.9"D X 1.7"H	EDWARD DON	MOUNT 72" AFF; (6) METAL SINGLE HOOKS

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).

1	M-321	FIRST AID KIT	ECOLAB / CAREPOD ESSENTIALS FIRST AID KIT W/BIOHAZARD 50225-93-11	18"W X 6"D X 27"H	ECOLAB	INSTALL 48"AFF
3	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354060BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER
1	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	--
		ENGINE (DRY STORAGE)				
1	X-M-415	FLOOR SHELF - 18X36 - 3 TIER	OLYMPIC / J1836C, METRO / 27P	36"W X 18"D WIRE SHELF 26-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
2	X-M-422	FLOOR SHELF - 14X36 - 2 TIER	OLYMPIC / J1436C, METRO / 27P	14"W X 36"D WIRE SHELF 26-3/8" POST	EDWARD DON	INCLUDES (1) WIRE SHELF, (1) SOLID SHELF AND (4) POSTS
2	X-M-435	FLOOR SHELF - 24X36 - 3 TIER	OLYMPIC / J2436C, METRO / 27P	24"W X 36"D WIRE SHELF 26-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
1	X-M-441	FLOOR SHELF - 24X42 - 3 TIER	OLYMPIC / J2442C, METRO / 27P	24"W X 42"D WIRE SHELF 26-3/8" POST	EDWARD DON	INCLUDES (3) WIRE SHELVES AND (4) POSTS
		KITCHEN (DRY STORAGE)				
4	M-412	FLOOR SHELF - 18X48 - 5 TIER	OLYMPIC / J1848C, J66C	48"W X 18"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS
1	M-413	FLOOR SHELF - 18X60 - 5 TIER	OLYMPIC / J1860C, J66C	60"W X 18"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS
2	M-432	FLOOR SHELF - 24X48 - 5 TIER	OLYMPIC / J2448C, J66C	48"W X 24"D WIRE SHELF 86" POST	EDWARD DON	INCLUDES (5) WIRE SHELVES AND (4) POSTS

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN).

		KITCHEN WALL SHELVES				
2	M-450	WALL SHELF - 42"	OLYMPIC / J1842C	42"W X 18"D	EDWARD DON	WALL MOUNTED
6	M-451	WALL SHELF - 48"	OLYMPIC / J1848C	48"W X 18"D	EDWARD DON	WALL MOUNTED
3	M-460	WALL SHELF BRACKET - DOUBLE	OLYMPIC / J2WD18C	18"D	EDWARD DON	IN MIDDLE OF SHELF RUNS
10	M-461	WALL SHELF BRACKET - SINGLE	OLYMPIC / J1WD18C	18"D	EDWARD DON	AT ENDS OF SHELF RUNS
		WALK-IN COOLER/FREEZER STORAGE				
1	M-480	COOLER SHELF - 24X36 - 4 TIER	OLYMPIC / J2436K, J74K	36"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (4) WIRE SHELVES AND (4) POSTS
3	M-481	COOLER SHELF - 24X48 - 4 TIER	OLYMPIC / J2448K, J74K	48"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (4) WIRE SHELVES AND (4) POSTS
1	M-485	COOLER SHELF - 24X60 - 4 TIER W/ DUNNAGE	OLYMPIC / J2460K, J74K FOCUS FOODSERVICE / FFSM2460GN	60"W X 24"D WIRE SHELF 74" POST	EDWARD DON	INCLUDES (3) OLYMPIC WIRE SHELVES AND (4) POSTS WITH (1) FOCUS FOODSERVICE DUNNAGE SHELF TO BE INSTALLED AT BOTTOM TIER (DUNNAGE HAS 1000 LB CAPACITY)
1	M-490	DUNNAGE RACK - 36"	NEWAGE INDUSTRIAL / 2001	36"W X 18"D X 6"H	EDWARD DON	3000 LB CAPACITY
1	M-491	DUNNAGE RACK - 48"	NEWAGE INDUSTRIAL / 2002	48"W X 18"D X 6"H	EDWARD DON	2500 LB CAPACITY
2	M-494	DOUGH SPEED RACK	CHANNEL MANUFACTURING / RB-4, ELC-69	21"W X 26"D X 70"H	EDWARD DON	END LOAD, 4" SPACING, CAPACITY (15) 18" X 26" PIZZA BOXES, 5" SWIVEL STEM CASTERS; COVER INCLUDED
		STORAGE				
1	M-316	MOP & BROOM HOLDER	RUBBERMAID / FG199300 GRAY	34"W X 3.2"D X 4.2"H	EDWARD DON	--
		DINING				
5	M-500	TRASH CAN - 15 GA	CARLISLE / 34201523	20"W X 10.3"D X 24.75"H	EDWARD DON	TRIMLINE - RECTANGLE WASTE CONTAINER
8	M-522	PURSE HOOK	SUGATSUNE / HJ-50SBL	--	CONTRACTOR	MOUNT ON UNDERSIDE OF TABLE 6" FROM EDGE



SHEET NOTES

1. REFER TO SHEET A-001 RESPONSIBILITY SCHEDULE FOR SCOPE CLARIFICATION.
2. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS, POWER, DATA, PLUMBING, HVAC, DRAINAGE AND VENTILATION REQUIREMENTS.
3. COORDINATE FINAL LOCATIONS AND QUANTITIES OF FIXTURES AND FURNITURE WITH OWNER BEFORE INSTALLATION, INCLUDING COORDINATING POWER, FIXTURE ANCHORAGE AND SLEEVES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER AND DATA INFORMATION.
4. LOCATE FIXTURES AND FURNITURE TO MAINTAIN 36" CLEAR BETWEEN AND A 44" WIDE EGRESS PATH TO EXIT DOOR.
5. ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
6. WINDOW SHADE LOCATION & QUANTITY SHOULD BE CONFIRMED BY VENDOR IN FIELD PRIOR TO INSTALL
7. SHELVING FOR REFERENCE ONLY. COORDINATE INSTALLATION WITH OWNER & VENDOR

SHEET SYMBOLS

M-XXX — MISCELLANEOUS TAG

NORTH

0 1' 2' 4' 8'
SCALE: 3/16"=1'-0"

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
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CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000157
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:37:18 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-133
MISCELLANEOUS PLAN

CHECKED: EM DRAWN: AL

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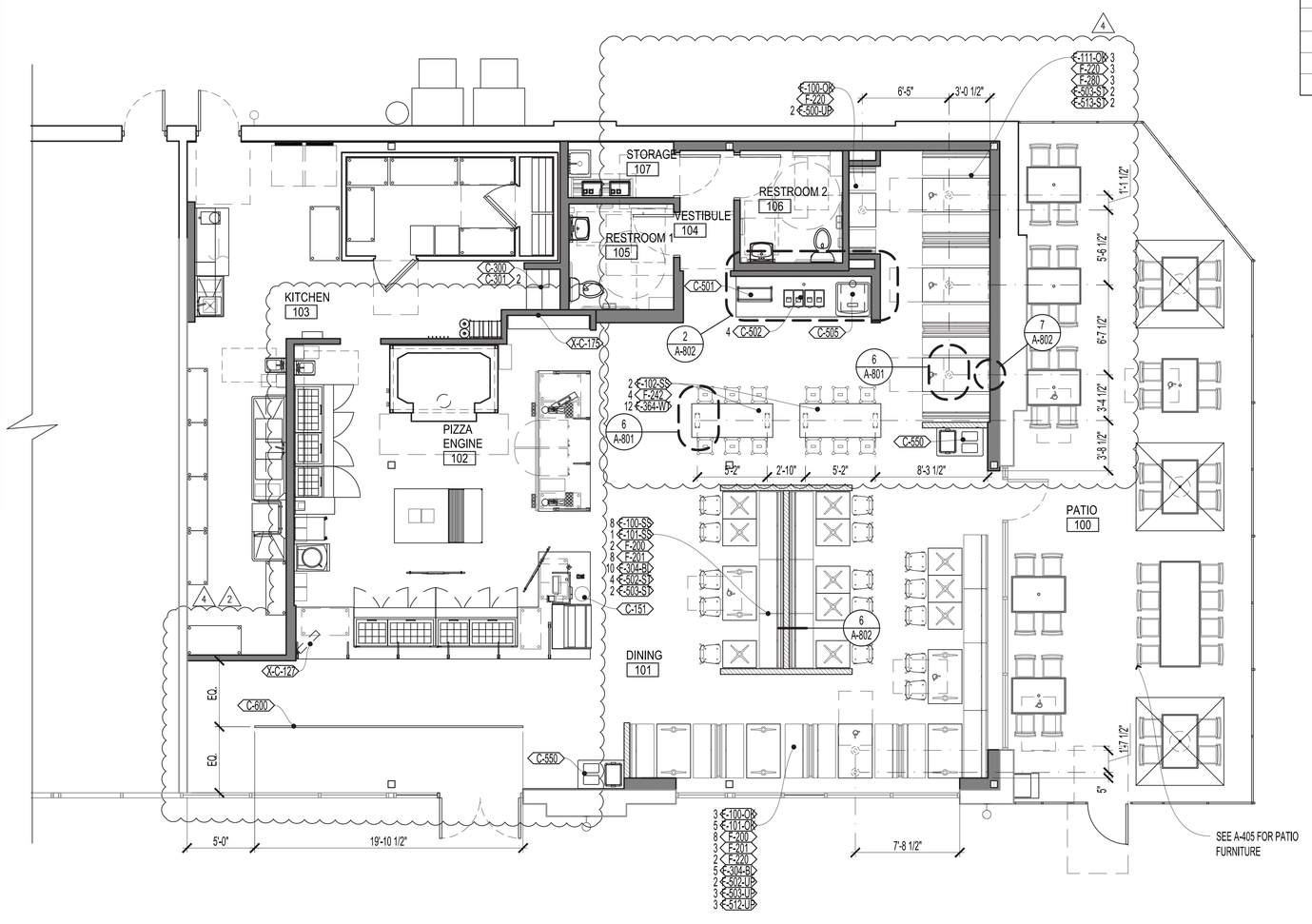
Development Services Department
Lee's Summit, Missouri
02/02/2022

FURNITURE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. VENDORS TO VERIFY QUANTITIES PER PLAN.

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
	TABLE TOPS						
4	F-100-OK	30X24 TABLE TOP - WHITE OAK	CUSTOM	30"W X 24"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
8	F-100-SS	30X24 TABLE TOP-SS	CUSTOM	30"W X 24"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	--
5	F-101-OK	30X48 TABLE TOP - WHITE OAK	CUSTOM	48"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
1	F-101-SS	30X48 TABLE TOP - SS	CUSTOM	48"W X 30"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	--
2	F-102-SS	30X72 TABLE TOP - SS	CUSTOM	72"W X 30"D X 1-3/4"THK	STAINLESS STEEL TOP, BIRCH PLY SUBSTRATE	CASEWORK	--
3	F-111-OK	30X60 TABLE TOP - WHITE OAK	CUSTOM	60"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	FURNITURE	WOOD TABLETOPS SHOULD BE FINISHED WITH SHERWOOD 30 SHEEN PU TOPCOAT FROM SHERWIN WILLIAMS
	TABLE BASES						
10	F-200	END BASE - 28.5"	J.H. CARR / 1825309KT	22"W X 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	--
11	F-201	CROSS BASE - 28.5"	J.H. CARR / 1822303KT	22"W X 22"L, 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	--
6	F-220	BOLT DOWN BASE - 28.5"	FOLDCRAFT / J-28-BL	3" DIA X 28-1/2"H	BLACK SANDEX	EDWARD DON	BOLT DOWN
4	F-242	METAL STRAP LEG BASE - 40.5"	CROW WORKS / 50186	4"W X 10"D X 40-1/2"H	GUNMETAL	CROW WORKS	BOLT DOWN
3	F-280	WALL BRACKET	CASEWORK / CUSTOM	24"L X 1-1/2"H, 7GA THICK	HS-103	CASEWORK	CONTINUOUS CLEAT, 2" LESS WIDTH OF TABLE TOP AT PARTITION, CONTRACTOR TO INSTALL PER S/A-804, ATTACH TABLE TOP WITH (3) MIN. SCREWS FROM BELOW
	CHAIRS & STOOLS						
15	F-304-BL	AMES CHAIR - BLACK	FOOD SERVICE SEATING / AMES 2.0 - C272S-8002	19-1/4"W X 19-1/4"D X 33-1/2"H - 17-3/4"SH	BEECHWOOD VENEER SEAT AND BACK; BLACK POWDERCOAT FRAME	FOODSERVICE SEATING	NYLON GLIDES
12	F-364-WT	TRENTON STACKING STOOL - 30" - METAL SEAT - WHITE	FSS / C956B-MIS-8004	12-1/4"W X 12-1/4"D - 30" SEAT HEIGHT	WHITE POWDERCOAT	FSS	NON-MAR FOOT GLIDES; 325LB CAPACITY
	BANQUETTE & BOOTH SEATING						
2	F-500-UP	24" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	24"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
4	F-502-ST	48" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	48"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
3	F-502-UP	48" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	48"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
4	F-503-ST	60" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
2	F-503-UP	60" BANQUETTE I - UPHOLSTERED SEAT & BACK	CUSTOM	60"W X 21-1/2"D X 36"H	GUNMETAL FRAME (FA105)	FURNITURE	BOLT DOWN
3	F-512-UP	48" BANQUETTE II - UPHOLSTERED SEAT & BACK	CUSTOM	48"W X 43-1/4"D X 36"H	GUNMETAL FRAME (SPECIFY FABRIC FINISH)	FURNITURE	BOLT DOWN
2	F-513-ST	60" BANQUETTE II - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 43-1/4"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME (SPECIFY FABRIC FINISH)	FURNITURE	BOLT DOWN



UPHOLSTERY SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

FABRIC					
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783888	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--

CASEWORK SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
	ENGINE						
1	X-C-127	BOX ENGINE CASEWORK - RIGHT	CUSTOM	--	SEE SHOPS	CASEWORK	--
1	C-151	POS CARD HOLDER	CUSTOM	11-1/4"W X 1"D X 7-3/4" H	HS-103	BFC METALS	FOR CARDS & STICKERS; HUNG ON THE POS SHROUD
1	X-C-175	DIGITAL PICKUP SHELVING SYSTEM - 72"	CUSTOM	72"W X 12"D X 126" H	HS-103 WD-102	CASEWORK	ATTACH TO WALL WITH Z-CLIPS PER VENDOR INSTRUCTIONS; BRACKETS AND WOOD SHELVES INCLUDED; BRACKETS SLIDE INTO GRID SYSTEM
	KITCHEN						
1	C-300	MANAGER'S DESK SHELF - 16"	CUSTOM	30"W X 1'-6"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
2	C-301	MANAGER'S DESK SHELF - 30"	CUSTOM	30"W X 1'-6"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
	DINING						
1	C-501	SHELF W/ UTENSIL HOLDER	CUSTOM	36-1/2"W X 11-1/8"D X 36"H	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP
4	C-502	METAL JUICE TAGS	CUSTOM	--	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP; INCLUDES (4) TAGS
1	C-505	BEVERAGE STATION CASEWORK - 10' - RIGHT	CUSTOM	120"W X 36"D X 33"H	CS-201WD-121	CASEWORK	SCRIBE TO FACE OF PARTITION, WHERE OCCURS; SEE A-113
2	C-550	TRASH CART	CUSTOM	41"W X 25"D X 33-3/8"H	CS-201WD-121	CASEWORK	--
1	C-600	METAL QUEUE RAIL	CUSTOM	CUSTOM LENGTH X 40-1/2"H	HS-103	CASEWORK	--

SHEET NOTES

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5. ALL ITEMS CONTAINED WITHIN THESE CONTRACT DOCUMENTS ARE TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
6. GENERAL CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF FURNITURE AND CASEWORK UNLESS OTHERWISE NOTED.
7. FURNITURE AND CASEWORK FOR REFERENCE ONLY. COORDINATE INSTALLATION WITH OWNER & VENDOR

SHEET SYMBOLS

C-XXX — CASEWORK TAG

F-XXX — FURNITURE TAG

NORTH

0 1' 2' 4' 8'
SCALE: 3/16"=1'-0"

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

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PERMITTING

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407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000135757
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:37:38 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-134

FURNITURE & CASEWORK PLAN

CHECKED: EM DRAWN: AL

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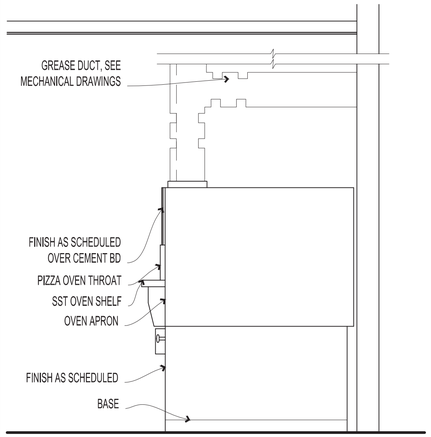
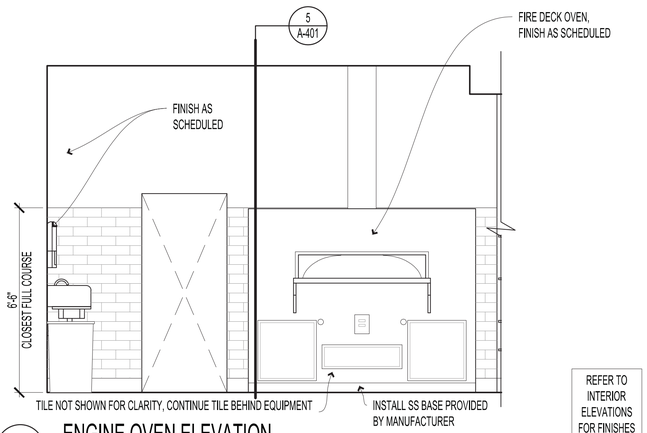
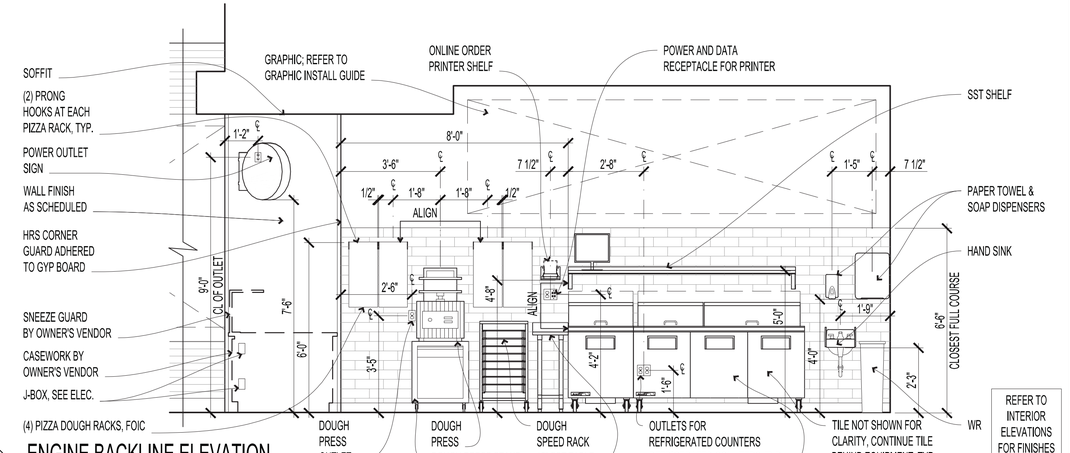
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022



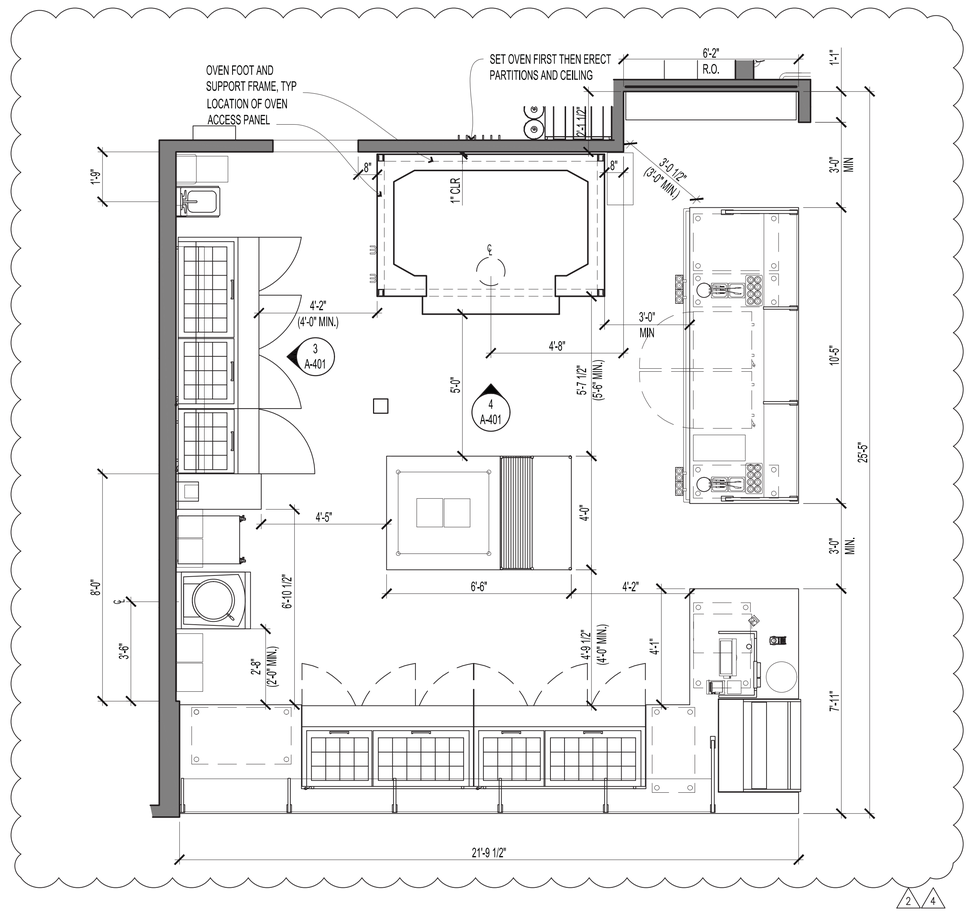
5 PIZZA OVEN SECTION
SCALE: 1/2"=1'-0"
DIRECT VENT



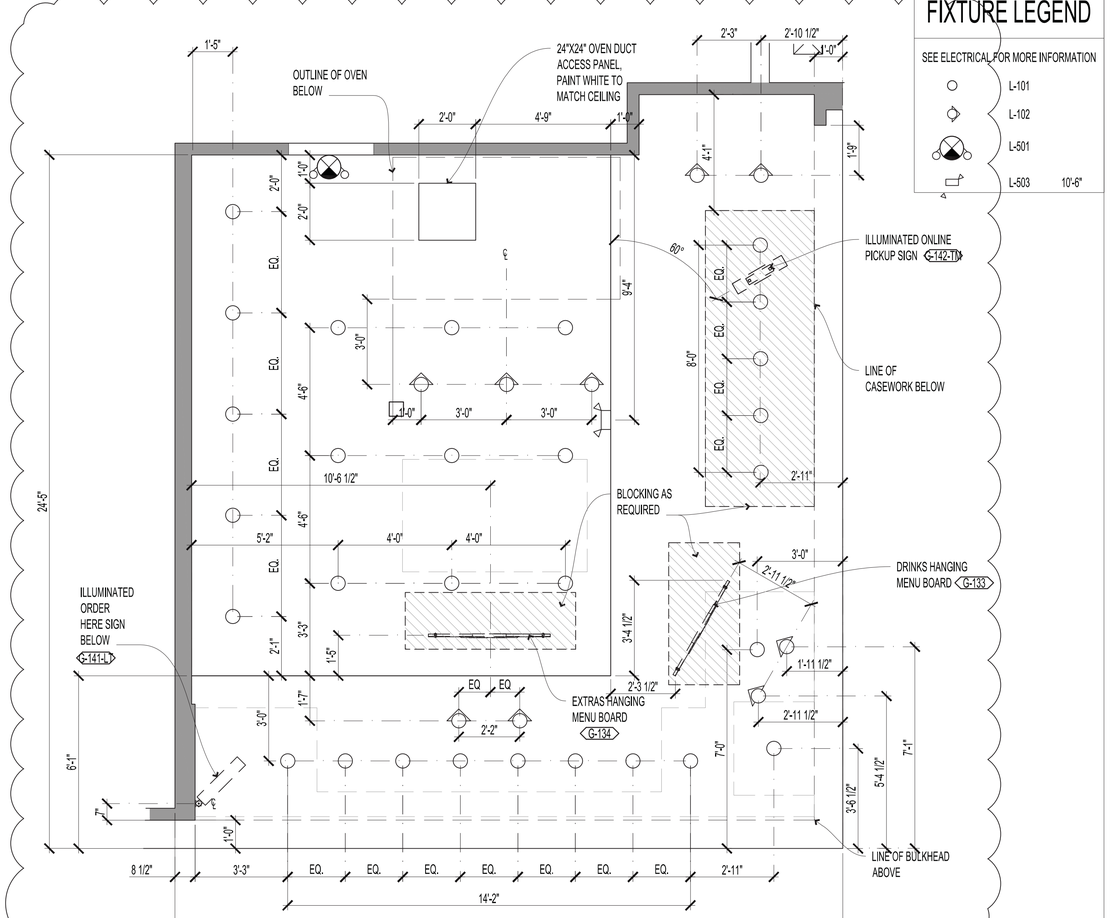
4 ENGINE OVEN ELEVATION
SCALE: 3/8"= 1'-0"



3 ENGINE BACKLINE ELEVATION
SCALE: 3/8"= 1'-0"



2 ENLARGED PLAN - PIZZA ENGINE
SCALE: 3/8"= 1'-0"
BOX ENGINE - LEFT



1 ENLARGED REFLECTED CEILING PLAN - PIZZA ENGINE
SCALE: 3/8"= 1'-0"
BOX ENGINE - LEFT

FIXTURE LEGEND

SEE ELECTRICAL FOR MORE INFORMATION

L-101	
L-102	
L-501	
L-503	10'-6"

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
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407.645.5008
PROJECT NO. 2021.0524
CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2006035
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Digitally signed by David Boyce
Date: 2022.01.05 17:37:59 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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A-401
ENLARGED PLANS AND DETAILS - PIZZA ENGINE

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Lee's Summit, Missouri
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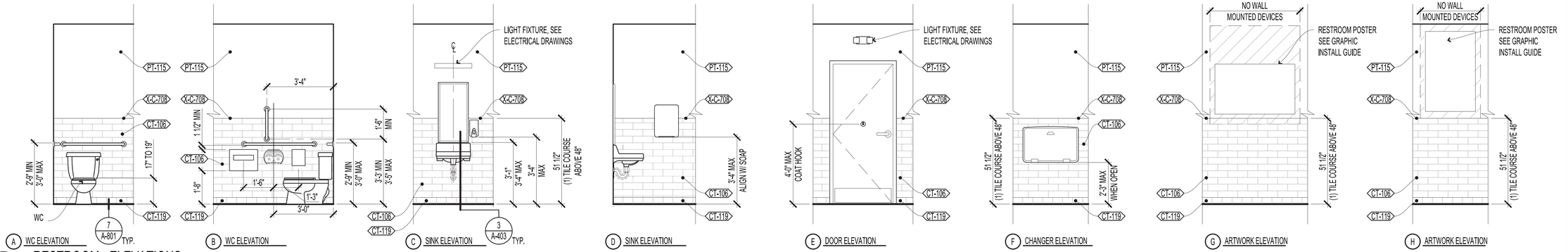
ORIENTATION MAY VARY, SEE PLANS FOR EXACT LOCATION OF FIXTURES



9 RESTROOM - ELEVATIONS
SCALE: 3/8"=1'-0"

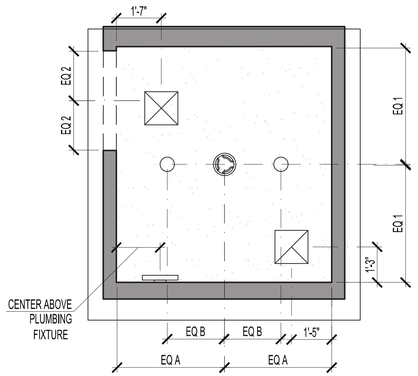
RESTROOM ACCESSORY SCHEDULE

RESTROOM						
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	VENDOR	REMARKS
2	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE; SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
2	M-700	TOILET PAPER DISPENSER	TORK / 59TR	12.8"W X 5.6"D X 8.3"H	PFG	--
2	M-701	SEAT COVER DISPENSER	BOBRICK / B-221	15-3/4"W X 2"D X 11"H	RESTROOM REMODELS	--
2	M-702	SANITARY NAPKIN DISPOSAL	BOBRICK / B-270	7-1/2" W X 3-13/16"D X 10"H	RESTROOM REMODELS	INSTALL IN BOTH UNISEX RESTROOMS
2	M-703	BABY CHANGING STATION	FOUNDATIONS / 100-EH	34-1/4"W X 4"D X 15-3/8"H	RESTROOM REMODELS	PROTRUDES 17-1/2" WHEN OPEN
2	M-704	GRAB BAR - 42"	BOBRICK / B-6806X42	42"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-705	GRAB BAR - 36"	BOBRICK / B-6806X36	36"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-706	GRAB BAR - 18"	BOBRICK / B-6806X18	18"W	RESTROOM REMODELS	VERTICAL GRAB BAR
2	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	--
2	M-710	MIRROR	BOBRICK / B-165 1836	18"W X 1/2"D X 36"H	RESTROOM REMODELS	--
2	M-711	COAT HOOK	LIBERTY / 100170467	3" HEAVY DUTY	EDWARD DON	48" AFF ON INSIDE OF STALL DOOR OR RESTROOM DOOR IN SINGLE USER
2	M-714	LARGE TRASH SWING LID	RUBBERMAID / SWING LID ACC.	--	EDWARD DON	SLIM JIM SWING LID FOR RESTROOMS ONLY
2	M-501	TRASH CAN - 23 GA	RUBBERMAID / FG354060BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER

FIXTURE LEGEND

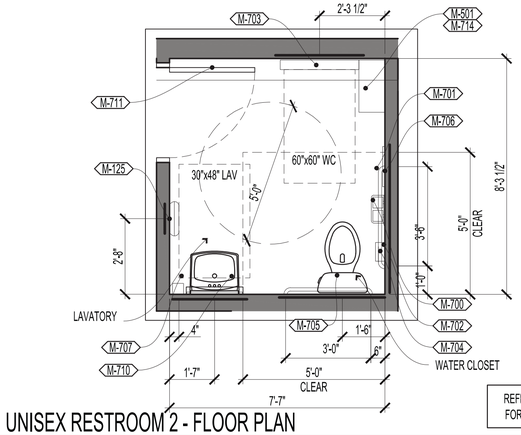
SEE ELECTRICAL FOR MORE INFORMATION

	L-101	
	L-490	7'-0" AFF
	L-503	8'-0" AFF
	E-513	



5 UNISEX 2 - REFLECTED CEILING PLAN
SCALE: 3/8"=1'-0"

REFER TO A-111 FOR BLOCKING



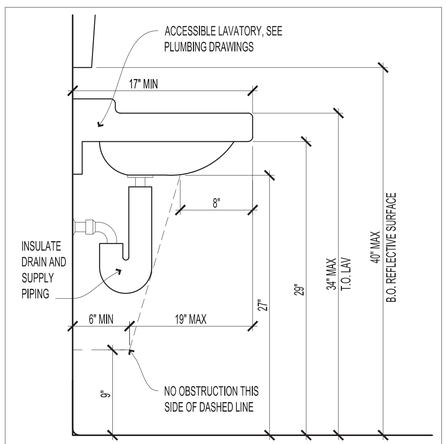
4 UNISEX RESTROOM 2 - FLOOR PLAN
SCALE: 3/8"=1'-0"

REFER TO A-111 FOR BLOCKING

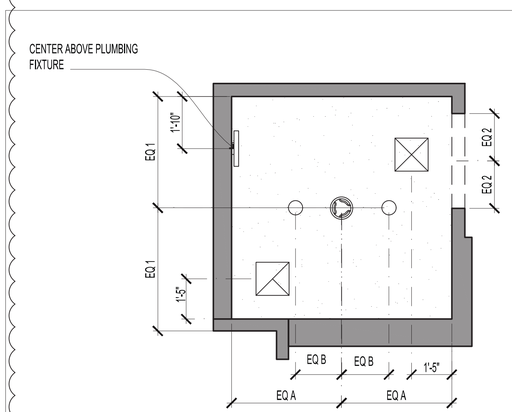
RESTROOM FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	FINISH	REMARKS
TILE				
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	0790 ARCTIC WHITE; MATTE	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	MATTE ARCTIC WHITE	GROUT: MAPEI-47 CHARCOAL
PLASTIC LAMINATE				
PL-101	PLASTIC LAMINATE - CANYON ZEPHYR	WILSONART / 4842-60	CANYON ZEPHYR; MATTE	--
PAINT				
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	CEILING BRIGHT WHITE; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-109	PAINT - LIGHT FRENCH GRAY	SHERWIN WILLIAMS / SW0055	LIGHT FRENCH GRAY; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	SHOJI WHITE; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE				
SC-100	SEALED CONCRETE	CONSOLIDECK	CONCRETE PROTECTOR, CLEAR	PENETRATING SEALER; USDA APPROVED

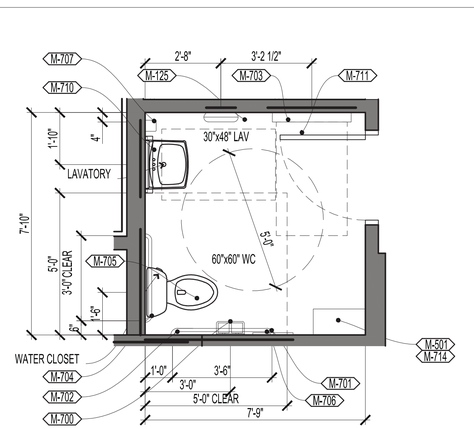


3 ACCESSIBLE LAVATORY SECTION
SCALE: 1 1/2"=1'-0"



2 UNISEX 1 - REFLECTED CEILING PLAN
SCALE: 3/8"=1'-0"

REFER TO A-111 FOR BLOCKING



1 UNISEX RESTROOM 1 - FLOOR PLAN
SCALE: 3/8"=1'-0"

REFER TO A-111 FOR BLOCKING

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-7000
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:38:19 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-403
ENLARGED PLANS AND DETAILS - RESTROOMS

CHECKED: EM DRAWN: AL

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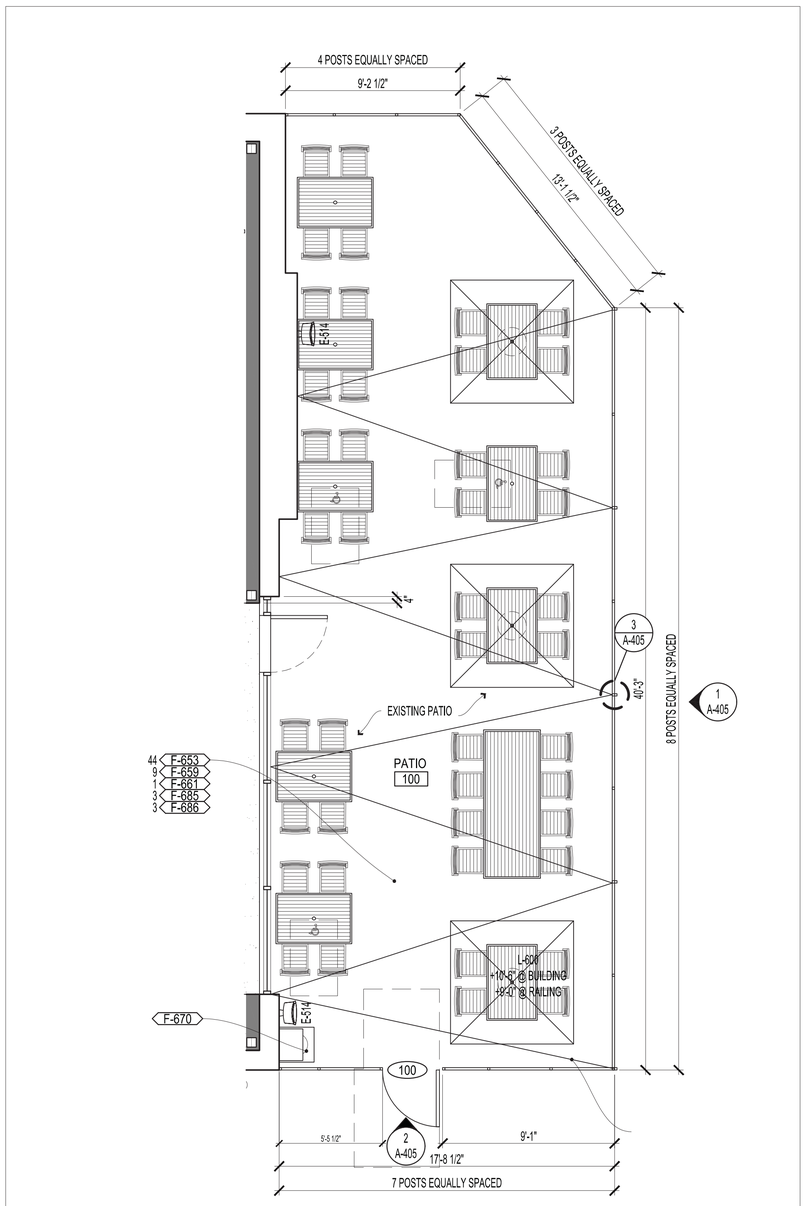
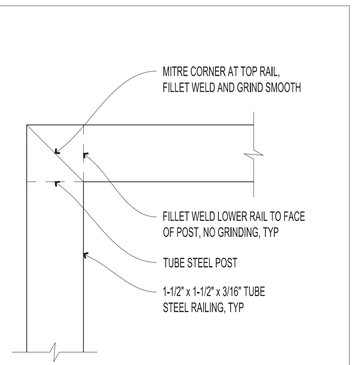
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

PATIO FURNITURE SCHEDULE

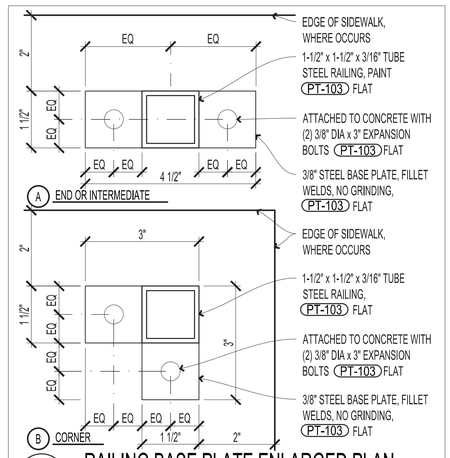
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
	EXTERIOR *(F) 600-699						
44	F-653	PATIO SIDE CHAIR	MIAMI SIDE CHAIR / CS16S-SBG	18.25"W X 23"D X 33.5"H	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	325LB CAPACITY
9	F-659	PATIO 4-TOP TABLE	MIAMI DINING TABLES / DT516S-48Q	48"W X 32"D	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	EXTRA SLATS PROVIDED TO REMOVE UMBRELLA HOLE; ADA COMPLIANT
1	F-661	PATIO COMMUNITY TABLE	MIAMI DINING TABLES / DT516S-94Q	94"W X 36"D	POWDERCOATED ALUMINUM FRAME; ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	EXTRA SLATS PROVIDED TO REMOVE UMBRELLA HOLE; ADA COMPLIANT
1	F-670	EXTERIOR TRASH CART	OCC OUTDOORS PRODUCTS / REC-MOD-36-TT	22.12"W X 22.12"D X 42.31"H; 36 GAL	POWDERCOAT BLACK HEAVY-DUTY STEEL; RECYCLED PLASTIC TOP WITH 14"DIA. OPENING; 36GAL. POLYETHYLENE LINER	EDWARD DON	36GAL.
3	F-685	PATIO UMBRELLA - MONTEREY FIBERGLASS	FRANKFORD UMBRELLAS / MONTEREY FIBERGLASS / 454FMAIS-MOD	78"W X 78"D X 99"H (77" CLEAR WHEN OPEN)	SUNBRELLA 4631-0000 BURGUNDY 902 SOLUTION DYED MARINE GRADE ACRYLIC UMBRELLA FABRIC; MATTE SILVER FIBERGLASS/ALUMINUM FRAME	FRANKFORD UMBRELLAS	ORDER 10" EXTENSION "BAR HEIGHT" LOWER POLE FOR TEXAS MARKET
3	F-686	PATIO UMBRELLA BASE - 24G TABLES	FRANKFORD UMBRELLAS / 24G: GALVANIZED STEEL PLATE	24" DIA X 5"H; 70LB	GALVANIZED	FRANKFORD UMBRELLAS	--



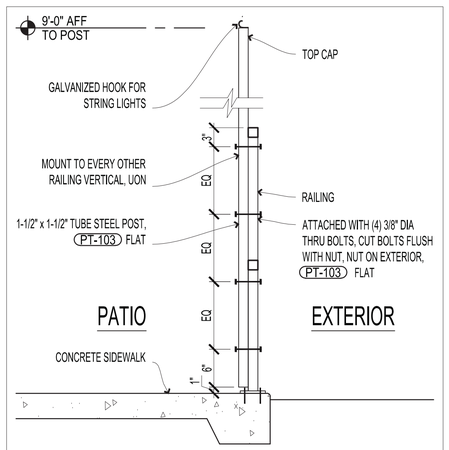
4 PATIO FLOOR/REFLECTED PLAN
SCALE: 1/4"= 1'-0"



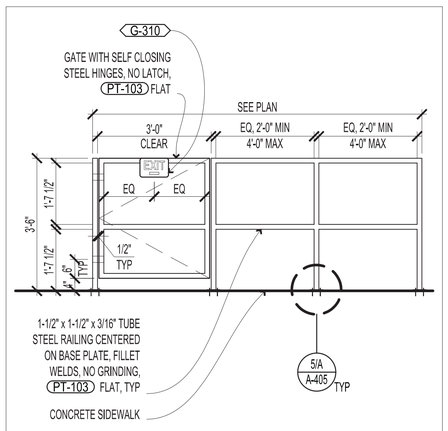
6 RAILING CORNER ENLARGED PLAN
SCALE: 6"= 1'-0"



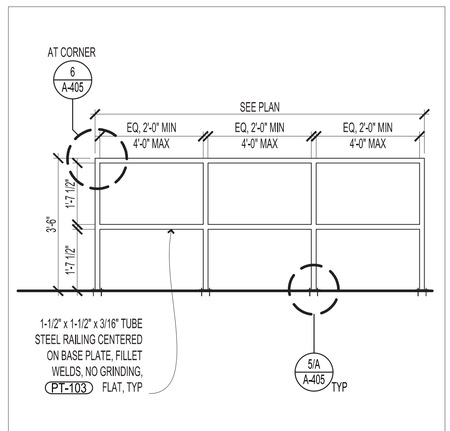
5 RAILING BASE PLATE ENLARGED PLAN
SCALE: 6"= 1'-0"



3 PATIO STRING LIGHT POST DETAIL
SCALE: 1"= 1'-0"



2 EXTERIOR RAIL GATE ELEVATION
SCALE: 1/2"= 1'-0"



1 EXTERIOR RAIL ELEVATION
SCALE: 1/2"= 1'-0"

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

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407.645.5008
PROJECT NO. 2021.0524
CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000035
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:38:39 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
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4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-405
PATIO PLAN AND DETAILS

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

DOOR HARDWARE SCHEDULE

MANUFACTURERS LIST : BE = BEST ACCESS SYSTEMS; DE = DETEX; DM = DORMA USA; DS = DU SEAUNG; HG = HAGER; IV = IVES; LCN = LCN; NA = NATIONAL GUARD; PEM = PEMKO; SC = SCHLAGE; ST = STANLEY; TC = TRU-CLOSE; TR = TRIMCO; VD = VON DUPRIN

HW #1 - SINGLE STOREFRONT ENTRY

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
4EA	BUTT HINGE	5BB1 4 1/2 x 4 1/2	652	IV
1EA	OFFSET DOOR PULL	8190-2	US32D	IV
1EA	EXIT DEVICE	99EO-LD US28	US28	VD
1EA	SURFACE CLOSER	4111	--	LCN
1EA	THRESHOLD	158-A	--	PEM

HW #2 - DOUBLE STOREFRONT ENTRY

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
8EA	BUTT HINGE	5BB1 4 1/2 x 4 1/2	652	IV
2EA	OFFSET DOOR PULL	8190-2	US32D	IV
2EA	EXIT DEVICE	99EO-LD US28	US28	VD
2EA	SURFACE CLOSER	4111	--	LCN
1EA	THRESHOLD	172-A	--	PEM
2EA	DUSTPROOF STRIKE	DP2	US26D	IV

HW #3 - KITCHEN - NOT USED

HW #4 - SINGLE OCCUPANCY RESTROOM

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
3EA	HINGES	B 1279, 4 1/2" X 4 1/2"	--	HG
1EA	FLOOR STOP	FS17	--	IV
1EA	CLOSER W/ HOLD OPEN	1460	--	LCN
1EA	LOCKSET	L9496 SATURN	US26D	SC
1EA	10" KICKPLATE	8400, PUSH SIDE	US32D	IV

HW #7 - REAR EXIT

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
3EA	HINGE	CB199, 4 1/2" X 4 1/2" NRP	630	ST
1EA	EXIT DEVICE	9301 LD SNB	630	DM
1EA	DOOR CLOSER	8616 SPA	689	DM
1EA	KICKPLATE, PUSH SIDE	K0050 10" X 2" LDW B4E CS	630	TR
1EA	DOOR STOP	1214H	626	TR
1AE	DOOR SWEEP	200 NA SMS-TEKS	--	NA
1EA	THRESHOLD	426 SSMS/ES	--	NA
1EA	VIEWER	DS/10000-MB	BLK	DS
1EA	EXIT ALARM	EAX-500-KS	GREY	DE
1EA	SIGN	EA-704-2 (SPANISH)		DE

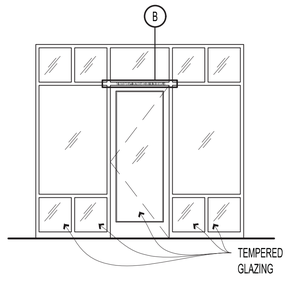
DOOR IS EXIT ONLY. ALARM WILL SOUND. TEMPLATE HARDWARE ACCORDINGLY - DO NOT CUT WEATHERSTRIP. MOUNT THE ENGLISH (PROVIDED) AND SPANISH SIGNAGE ABOVE THE EXIT DEVICE AND BELOW THE DOOR VIEWER.

HW #8 - PATIO GATE

QTY	DESCRIPTION	CATALOG #	FINISH	MANU
2EA	SELF CLOSING HINGES	--	--	--

DOOR LEGEND

DOOR #	ROOM NAME	DOOR TYPE	DOOR HDWR	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT'L	DOOR FINISH	FRAME HEAD	FRAME JAMB	FRAME THRSLD	FRAME MAT'L	FRAME FINISH	REMARKS
100	PATIO GATE	2/A-405	8	2'-10"	3'-6"	1-1/2"	MTL	PT-103	---	2/A-405	---	MTL	PT-103	
101	ENTRY	A	2	(2)3'-0"	7'-0"	--	ALUM	GL	1E/A-601	1D/A-601	---	ALUM	ALUM	PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 9A/A-601
103	EXIT	B	1	3'-0"	7'-0"	-	ALUM	GL	1EA-601	1D/A-601	---	ALUM	ALUM	PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 9A/A-601
104	REAR EXIT	EXIST	7	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXISTING; PROVIDE NEW HARDWARE
105	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
106	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
107	STORAGE	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	X-PL-108	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE

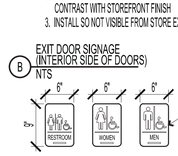


A ENTRY DOOR SIGNAGE (INTERIOR SIDE OF DOORS)
NTS

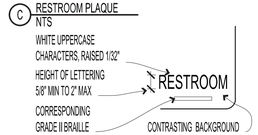
THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

SIGN REQUIREMENTS:
1. READILY VISIBLE AND DURABLE SIGN SHALL BE PLACED ON THE SIDELITE AS INDICATED.
2. HEIGHT OF LETTERS 1" MINIMUM. LETTERS TO CONTRAST WITH STOREFRONT FINISH
3. INSTALL SO NOT VISIBLE FROM STORE EXTERIOR.

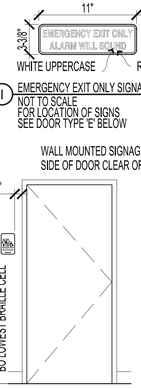
B EXIT DOOR SIGNAGE (INTERIOR SIDE OF DOORS)
NTS



C RESTROOM PLAQUE
NTS



D SIGN VIEW
NTS

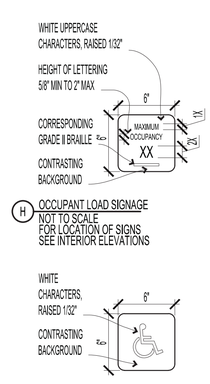


I EMERGENCY EXIT ONLY SIGNAGE
NOT TO SCALE
FOR LOCATION OF SIGNS
SEE DOOR TYPE 'E' BELOW

WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR CLEAR OF DOOR-SWING. SEE 9C/A-601

E ACCESSIBLE RESTROOM SIGNAGE
FOR LOCATION OF SIGNS
SEE INTERIOR ELEVATIONS

F EXIT SIGNAGE
FOR LOCATION OF SIGNS
SEE INTERIOR ELEVATIONS



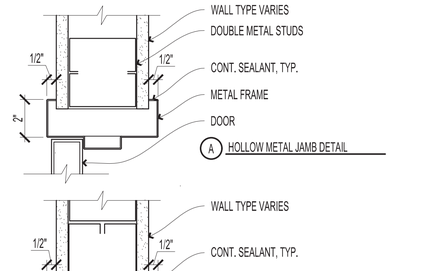
H OCCUPANT LOAD SIGNAGE
NOT TO SCALE
FOR LOCATION OF SIGNS
SEE INTERIOR ELEVATIONS

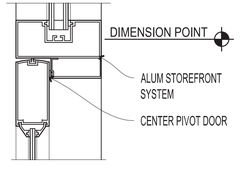
G INTERNATIONAL SYMBOL OF ACCESSIBILITY
NOT TO SCALE

9 DOOR SIGNAGE
SCALE: NTS

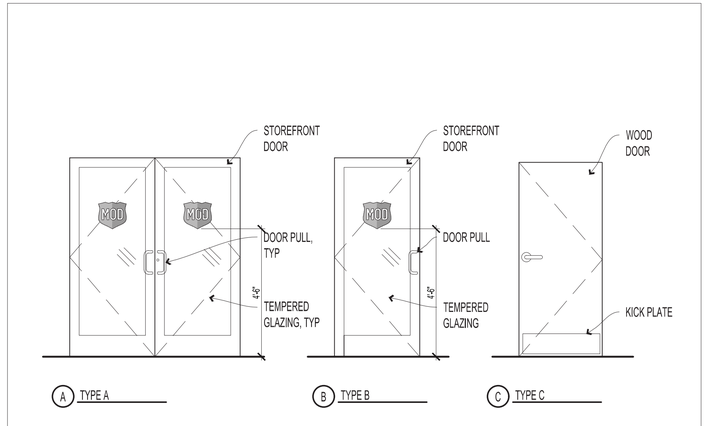
SHEET NOTES

1. THIS PROJECT SHALL COMPLY WITH ALL FEDERAL AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND LOCAL ACCESS CODE REQUIREMENTS.
2. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
3. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE, MOUNTED 34" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS. FOR INTERIOR DOORS. EXTERIOR DOOR - 5 LBS. POUNDS MAX. PRESSURE FIRE DOOR - 15 POUNDS MAX. PRESSURE
4. ACCESSIBLE DOORS MUST BE MINIMUM 3'-0"W X 6'-8"H. MODIFY IF REQUIRED.
5. PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR AT STRIKE/PUSH SIDE OF DOORS W/ CLOSERS AND 24" CLEAR AT STRIKE/PULL SIDE ON EXTERIOR DOOR
6. FLOOR SHALL BE LEVEL THROUGHOUT.
7. CLOSERS: FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. DOOR CLOSERS TO BE MOUNTED ON SWING SIDE OF DOORS. DOOR CLOSERS TO HAVE A MAXIMUM OPENING FORCE OF 5 LBS (INTERIOR HINGED DOORS). EXTERIOR DOOR - 5 LBS MAXIMUM. PRESSURE, FIRE DOOR - 15 LBS MAXIMUM. PRESSURE THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES MINIMUM, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH SHOULD BE 5 SECONDS MINIMUM.
8. AOR/OWNER SHALL VERIFY WITH SUPPLIER THAT ALL HARDWARE MEETS ADAAG REQUIREMENTS.
9. ALL DOOR HINGES TO BE STEEL BALL BEARING, FULL MORTISE TYPE.
10. ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.
11. ALL INTERIOR DOORS TO BE PROVIDED WITH COMMERCIAL GRADE WALL OR FLOOR STOPS.
12. GENERAL CONTRACTOR SHALL ENSURE ALL EXISTING DOORS TO REMAIN TO BE IN GOOD OPERATING ORDER AND TO MEET ALL LOCAL BUILDING CODES AND ADAAG REQUIREMENTS. GENERAL CONTRACTOR TO RESTORE DOORS TO "LIKE NEW" CONDITION. AND INSTALL NEW HARDWARE PER SCHEDULE.



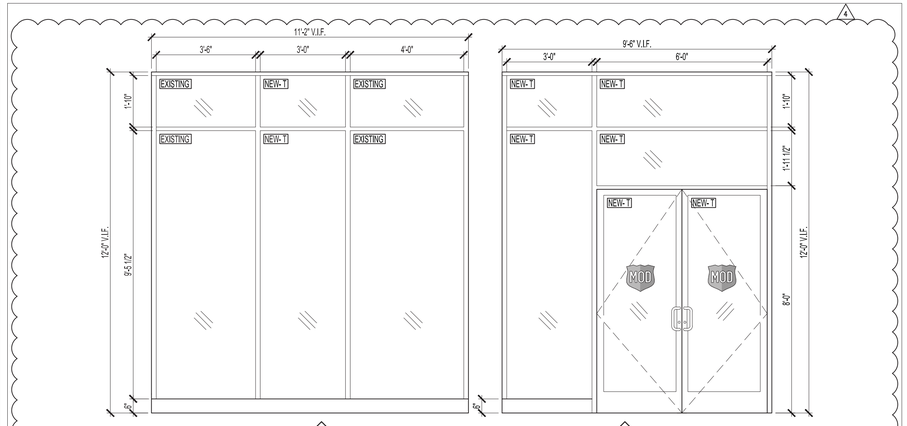


1 HEAD/JAMB DETAILS
SCALE: 3"=1'-0"



A TYPE A B TYPE B C TYPE C

5 DOOR TYPES
SCALE: 3/8"=1'-0"



4 STOREFRONT ELEVATIONS
SCALE: 3/8"=1'-0"

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524
CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2009019977
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:38:58 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEES SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A-601
DOOR LEGEND AND DETAILS

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-105	FORBO WALL BASE - 4"	FORBO / WALL BASE / C35 LAVA	4"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
CEMENT/ CONCRETE BOARD						
*(CB) 100+						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN, SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces)*-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN 'CHARCOAL GRAY' FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
COUNTER SURFACE						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2", 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	--
FABRIC						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	--	--	*Prismatic Powders / PPB-4858 / Flattop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	--	WHITE	CASEWORK	--
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	--	BLACK; MATTE	CASEWORK	--
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	--	*Ceiling Bright White; Semi-gloss LRV: 83*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	--	*Caviar; Semi-gloss LRV: 3*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	--	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH #: 8260-19865 MOD PIZZA TIM 0536	--	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	--	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	--	--	#4 FINISH	CONTRACTOR	--
WALLCOVERING						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FON 5414 / GOH12294987	52"W	SLATE	CONTRACTOR	--
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	--
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO/ HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER- BASED COLOR	CONTRACTOR	--
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED .2320" WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	--

INTERIOR SIGNAGE SCHEDULE

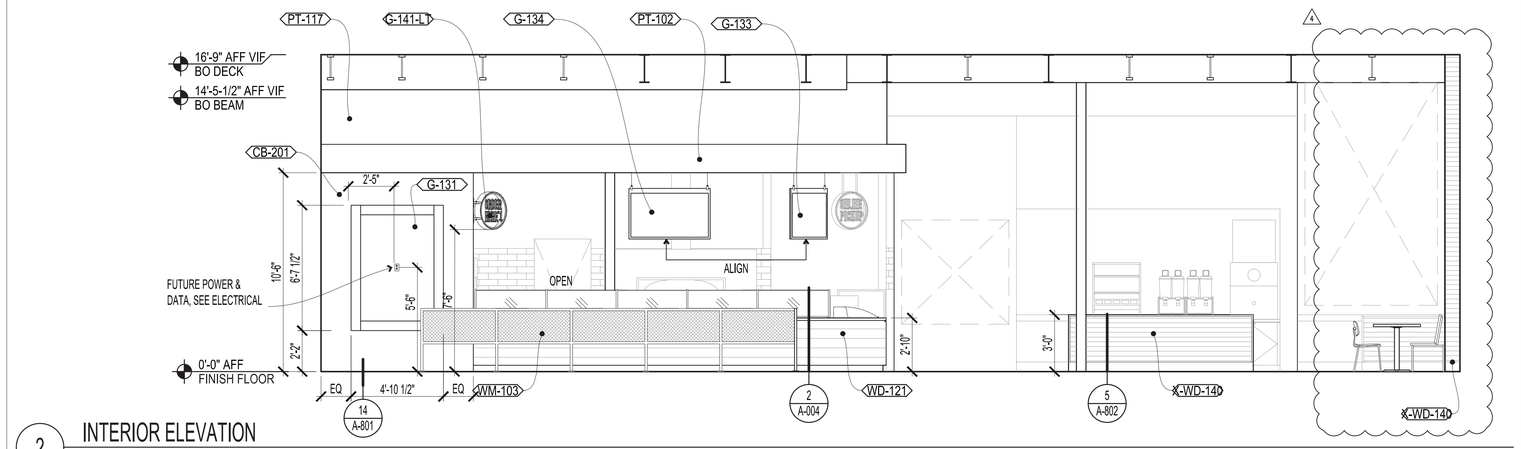
OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
WAYFINDING							
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	59-1/2"W X 1"D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-LT	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5"D	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ONSITE PER SITE CONDITIONS

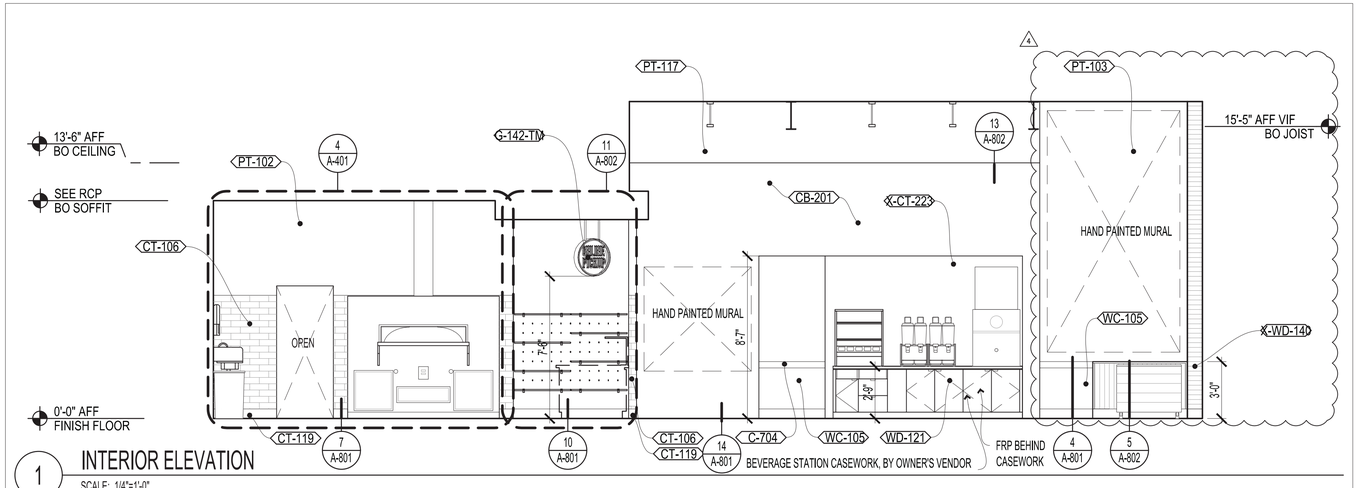
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5"H	VINYL DECAL	CONTRACTOR	SEE 9B/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EPS380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48"AFF; SEE 9H/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

SHEET NOTES

1. REFER TO A-131 FOR FLOOR & BASE FINISHES.
2. REFER TO A-131 FOR TRIM FINISHES.



2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:39:17 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A701
INTERIOR ELEVATIONS
DINING

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-105	FORBO WALL BASE - 4"	FORBO / WALL BASE / C35 LAVA	4"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
CEMENT/ CONCRETE BOARD *(CB) 100+						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN, SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces)*-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN 'CHARCOAL GRAY' FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
COUNTER SURFACE						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2", 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPB-4658 / Flattop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-801 FOR DETAILS.
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 83*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	---	*Caviar; Semi-gloss LRV: 3*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH #: 8260-19865 MOD PIZZA T/M 0536	---	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	---	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FON 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	---
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO/ HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	---
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED .2320" WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	---

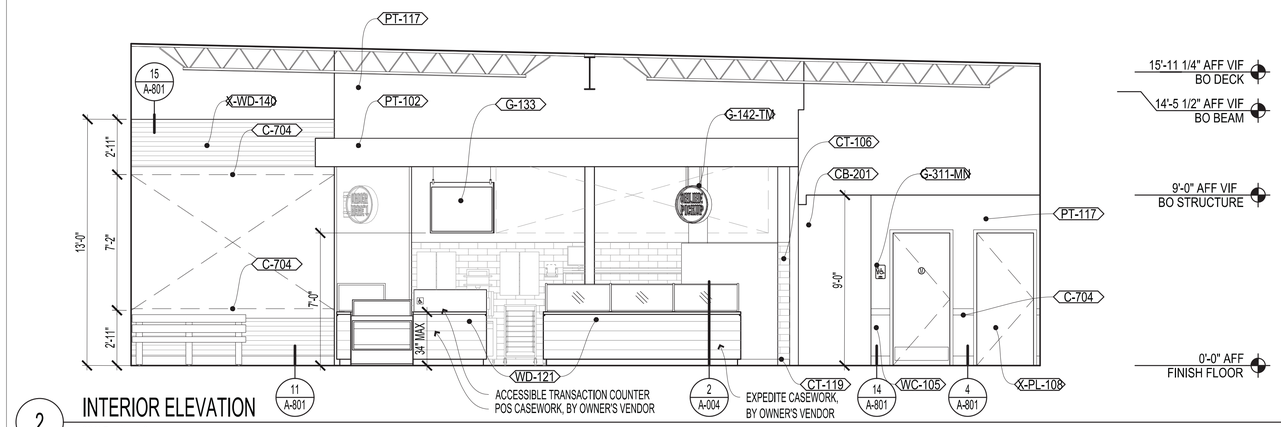
INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED

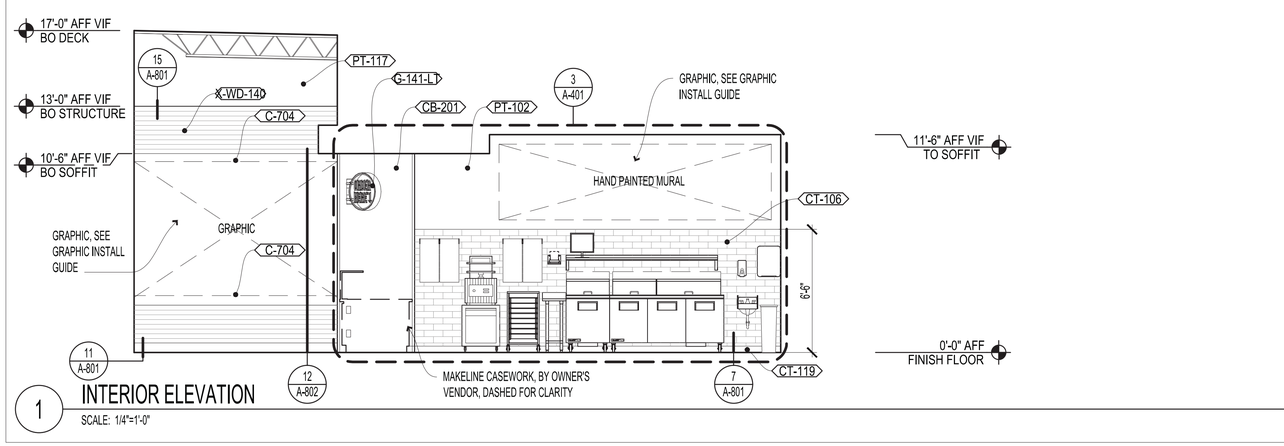
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
WAYFINDING							
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	59-1/2"W X 1"D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-LT	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5"D	ALUMINUM WITH "HOT ROLLED STEEL" FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH "HOT ROLLED STEEL" FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ONSITE PER SITE CONDITIONS
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5"H	VINYL DECAL	CONTRACTOR	SEE 9B/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EPS380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48"AFF; SEE 9H/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

SHEET NOTES

1. REFER TO A-131 FOR FLOOR & BASE FINISHES.
2. REFER TO A-131 FOR TRIM FINISHES.



2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524
CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:39:37 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A702
INTERIOR ELEVATIONS
DINING

CHECKED: EM DRAWN: AL

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FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-105	FORBO WALL BASE - 4"	FORBO / WALL BASE / C35 LAVA	4"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
CEMENT/ CONCRETE BOARD *(CB) 100+						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN, SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces)*-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN 'CHARCOAL GRAY' FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
COUNTER SURFACE						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2", 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	--
FABRIC						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	--	--	*Prismatic Powders / PPB-4658 / Flattop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	--	WHITE	CASEWORK	--
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	--	BLACK; MATTE	CASEWORK	--
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-601 FOR DETAILS.
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	--	*Ceiling Bright White; Semi-gloss LRV: 83*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	--	*Caviar; Semi-gloss LRV: 3*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	--	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH #: 8260-19865 MOD PIZZA T/M 0536	--	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	--	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	--	--	#4 FINISH	CONTRACTOR	--
WALLCOVERING						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FON 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	--
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	--
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO/ HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	--
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED .2320" WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	--

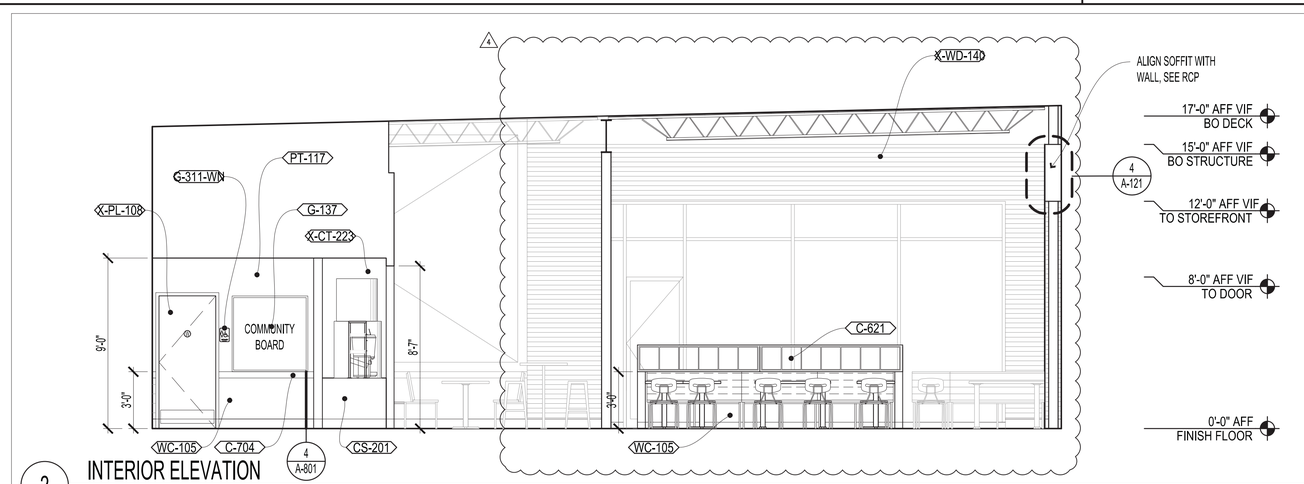
INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
WAYFINDING							
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	59-1/2"W X 1"D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-LT	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5"D	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ONSITE PER SITE CONDITIONS.
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5"H	VINYL DECAL	CONTRACTOR	SEE 9B/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EPS380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48"AFF; SEE 9H/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

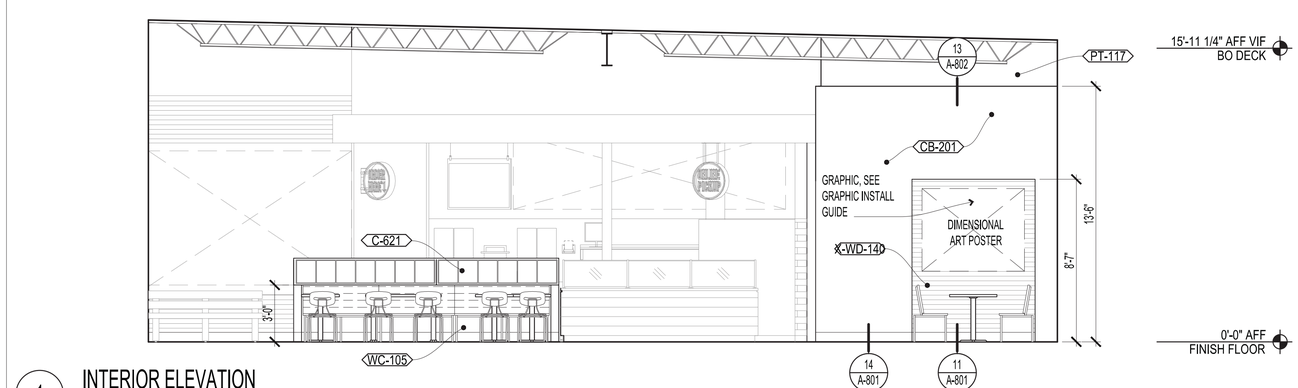
SHEET NOTES

1. REFER TO A-131 FOR FLOOR & BASE FINISHES.
2. REFER TO A-131 FOR TRIM FINISHES.



2 INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000
ARCHITECT

Digitally signed by David Boyce
Date: 2022.01.05 17:39:56 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A703

INTERIOR ELEVATIONS
DINING

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED, USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-105	FORBO WALL BASE - 4"	FORBO / WALL BASE / C35 LAVA	4"H	C35 LAVA LRV: PAINT MATCH -	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
CEMENT/ CONCRETE BOARD						
CB-201	2STONE INDUSTRIAL VENEER	2STONE / INDUSTRIAL VENEER	36"W X 48"L X 5/8"THK	STANDARD GRAY	CONTRACTOR	REQUIRES 5/8" PLYWOOD SUBSTRATE. INSTALL PANELS TO MATCH PATTERN SHOWN, SCREW EACH DIVOT & GLUE TO SUBSTRATE. ALLOW FOR 1/8" REVEAL BETWEEN PANELS. WITH SUBSTRATE PAINTED PT-103 (BLACK). CONCEAL SCREWS AND REVEALS BY CAULKING TO MATCH CONCRETE GREY PANELS. SEAL WITH DRY TREAT STAIN PROOF, PREMIUM IMPREGNATING SEALER. APPLY SEALER PRIOR TO ANY GRAPHIC APPLICATIONS.
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: Mapei-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces)*-SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	4 1/4"W X 12 7/8"L X 5/16"THK	MATTE ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
X-CT-223	CEMENT 8X8 TILE - PAVILION II	CEMENT TILE SHOP / PACIFIC CONTEMPORARY COLLECTION PAVILION II	8"W X 8"L X 5/8"THK	PAVILION II	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL (OR) TEC ACCUCOLOR EFX EPOXY SPECIAL EFFECTS GROUT IN 'CHARCOAL GRAY' FOR OVEN TILE APPLICATION (HIGH-HEAT SURFACES); APPLY CLEAR SEALER
COUNTER SURFACE						
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2", 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	--
FABRIC						
FA-105	VINYL - ROUGE	WOLF GORDON / GOH12783688	54" WIDE	ROUGE - EAST VILLAGE (EAV 8402)	CASEWORK	--
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4'W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4'W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	--	--	*Prismatic Powders / PPB-4858 / Flattop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	--	WHITE	CASEWORK	--
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	--	BLACK; MATTE	CASEWORK	--
X-PL-108	PLASTIC LAMINATE - PEPPER ALONA	WILSONART / PEPPER ALONA Y0287	VDL VERTICAL GRADE LAMINATE .028" SHEET SIZE: 4'X8'	PRODUCT TYPE: 362 PATTERN: Y0287-12 FINISH: 12	CONTRACTOR	APPLY FINISH OVER SOLID WOOD RESTROOM DOORS. SEE A-601 FOR DETAILS.
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	--	*Ceiling Bright White; Semi-gloss LRV: 83*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-103	PAINT - CAVIAR	SHERWIN WILLIAMS / SW6990	--	*Caviar; Semi-gloss LRV: 3*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOJI WHITE	SHERWIN WILLIAMS / SW7042	--	SHOJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-117	PAINT - SUBWAY	SHERWIN WILLIAMS / CUSTOM MATCH #: 8260-19865 MOD PIZZA T/M 0536	--	CUSTOM MATCH COLOR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	--	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	--	--	#4 FINISH	CONTRACTOR	--
WALLCOVERING						
WC-105	WALL COVERING - FOUNDATION - SLATE	WOLF GORDON / FOUNDATION / FON 5414 / GOH12294967	52"W	SLATE	CONTRACTOR	--
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	--
X-WD-140	WHITE OAK PANELING	MOUNTAIN LUMBER CO/ HARVEST WHITE OAK PANELING - CHARACTER GRADE	7"W X 2' TO 12' RANDOM L X 5/8"THK	DISTRESSED WATER-BASED COLOR	CONTRACTOR	--
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED .2320" WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	--

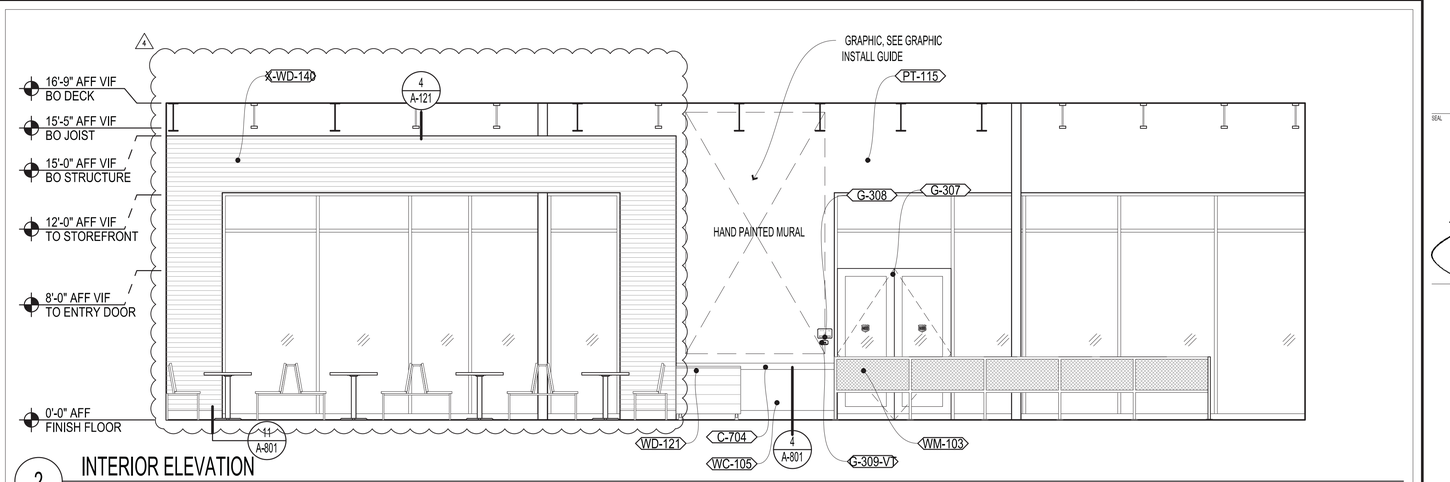
INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED

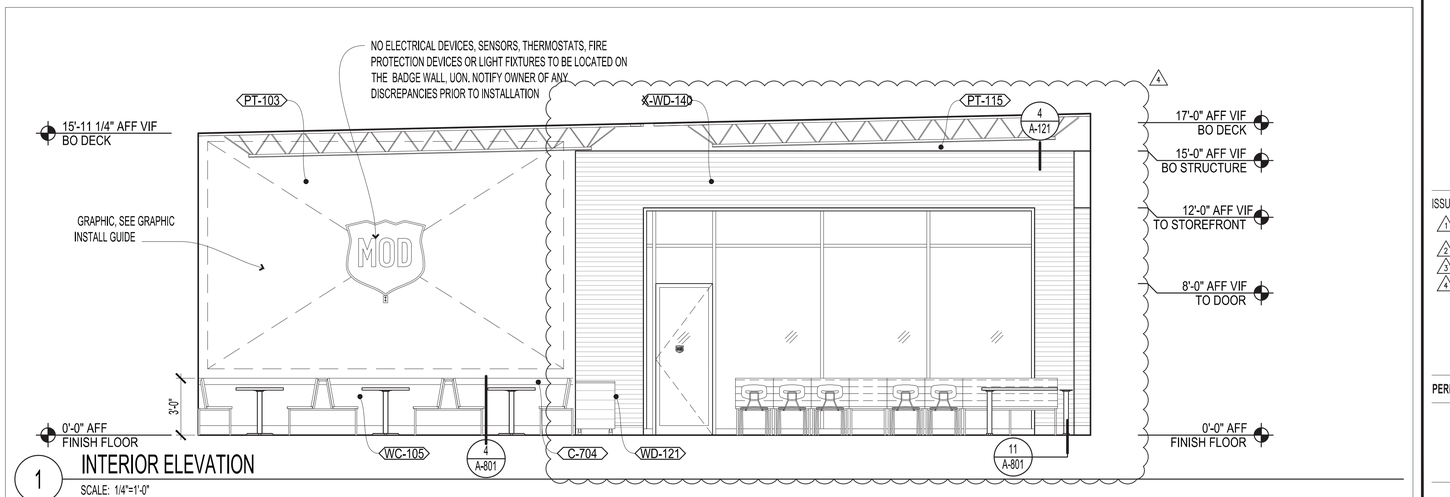
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
WAYFINDING							
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	59-1/2"W X 1"D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1"D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT; INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS, PROVIDED
1	G-141-LT	ORDER HERE SIGN - LEFT	CUSTOM	24" DIA X 5"D	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH "HOT ROLLED STEEL' FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ONSITE PER SITE CONDITIONS.
1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 1.5"H	VINYL DECAL	CONTRACTOR	SEE 9B/A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EPS380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48"AFF; SEE 9H/A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MOD2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D 1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 9/A-601; SOURCE FROM RESTROOM REMODELS

SHEET NOTES

1. REFER TO A-131 FOR FLOOR & BASE FINISHES.
2. REFER TO A-131 FOR TRIM FINISHES.



2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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

OWNER
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2035 158th CT NE
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Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:40:15 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
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4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

A704
INTERIOR ELEVATIONS
DINING

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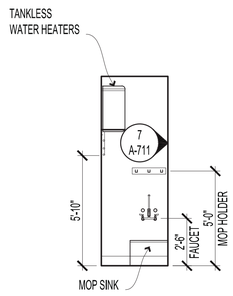
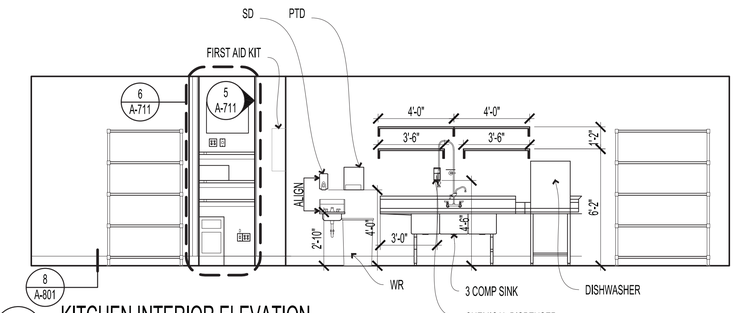
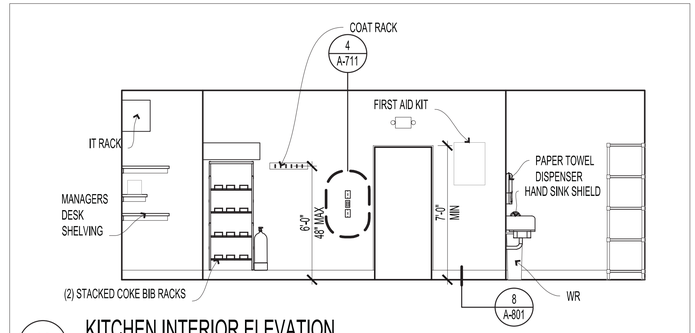


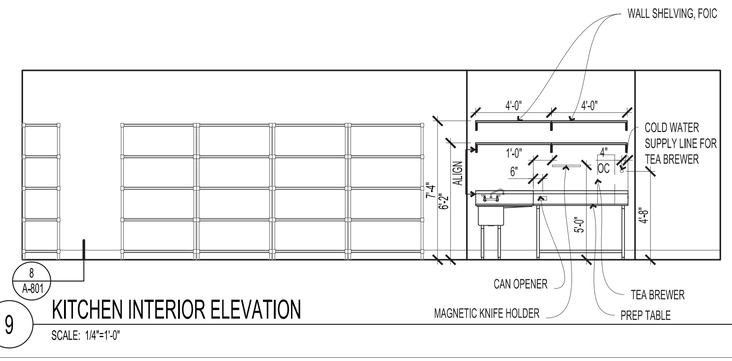
12 STORAGE INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



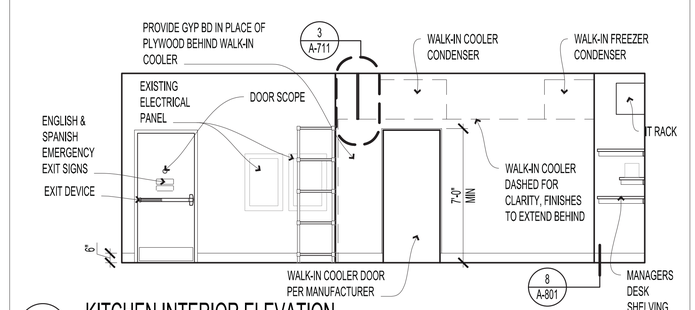
11 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



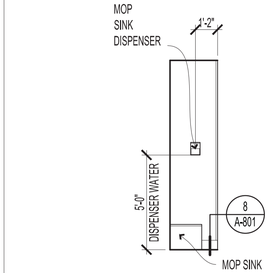
10 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



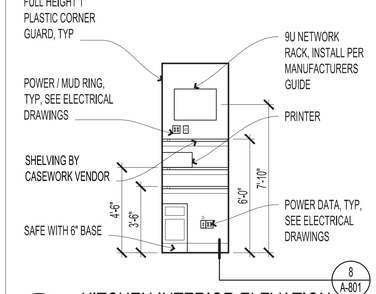
9 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



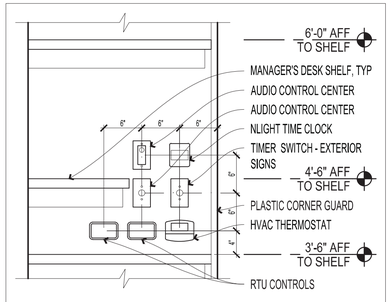
8 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



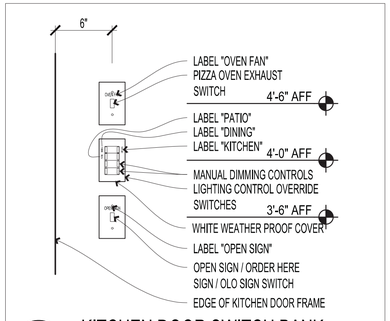
7 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



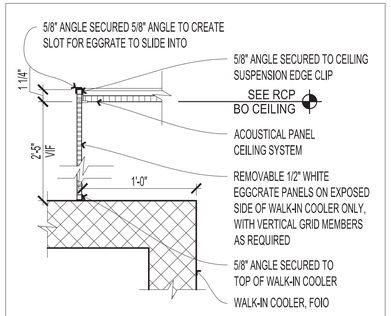
6 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



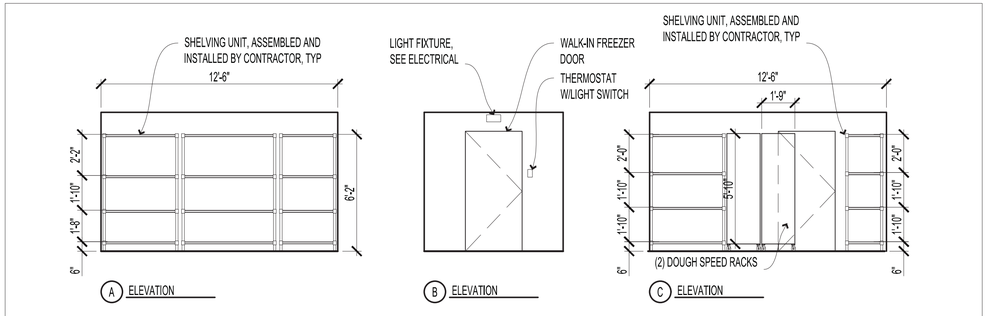
5 MANAGER'S DESK ELEVATION
SCALE: 1"= 1'-0"



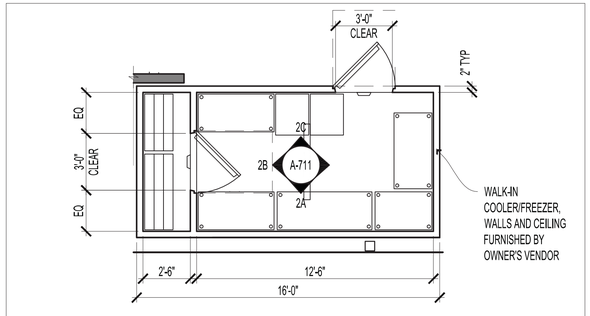
4 KITCHEN DOOR SWITCH BANK
SCALE: 1 1/2""= 1'-0"



3 WALK-IN COOLER PANEL
SCALE: 1 1/2""= 1'-0"



2 WALK-IN COOLER SHELVING ELEVATIONS
SCALE: 1/4"=1'-0"



1 WALK-IN COOLER/FREEZER ENLARGED PLAN
SCALE: 1/4"=1'-0"

SHEET NOTES

1. PER FIRE CODE, ALL STORED ITEMS MUST MAINTAIN A 24" CLEARANCE FROM CEILING.
2. SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS
3. ALL KITCHEN WALLS TO BE FP-100. REFER TO A-131 FOR FLOOR, BASE, AND TRIM FINISHES.
4. SEE ELECTRICAL SHEETS FOR OUTLET LOCATIONS

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407.645.5008
PROJECT NO. 2021.0524
CONSULTANT

SEAL
STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000167 ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:40:36 -05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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A-711
INTERIOR ELEVATIONS KITCHEN

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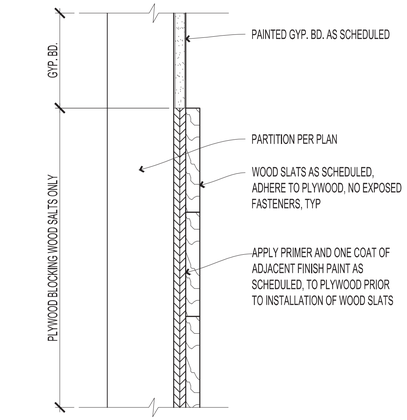
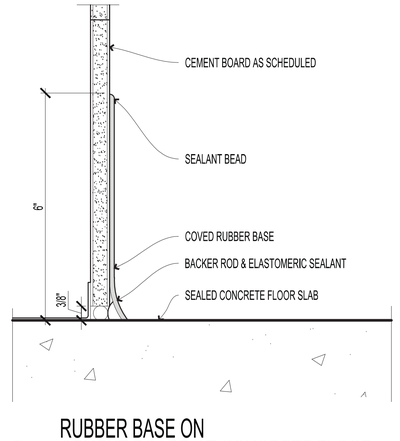
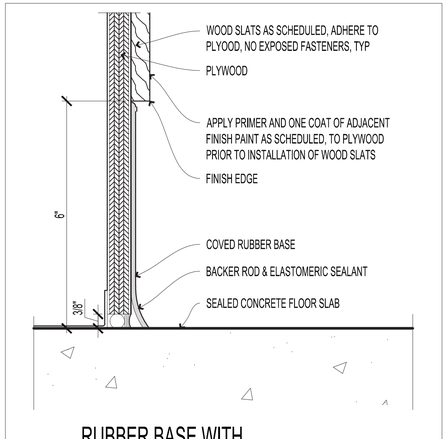


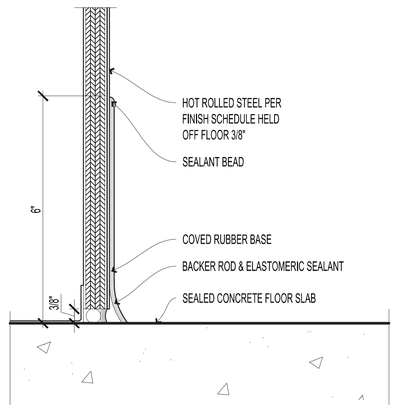
15 WOOD WALL TOP SECTION
SCALE: 3"= 1'-0"



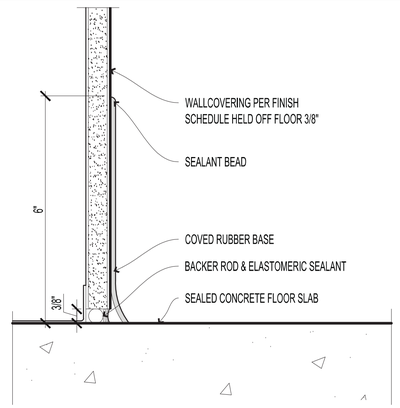
14 RUBBER BASE ON CEMENT BOARD AT CONCRETE FLOOR
SCALE: 6" = 1'-0"



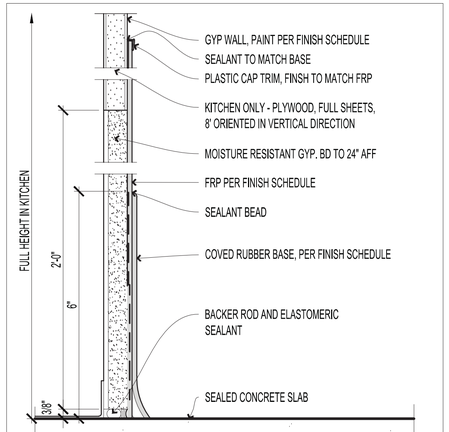
11 RUBBER BASE WITH WOOD PANELING AT CONCRETE FLOOR
SCALE: 6" = 1'-0"



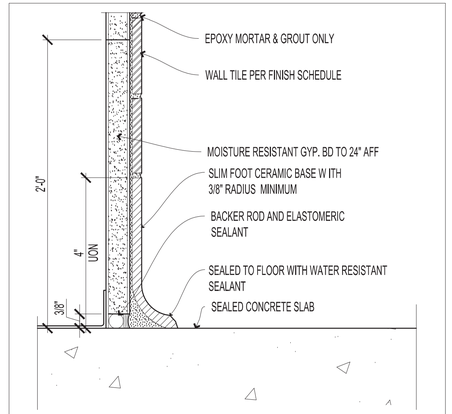
10 RUBBER BASE ON HOT ROLLED STEEL AT CONCRETE FLOOR
SCALE: 6" = 1'-0"



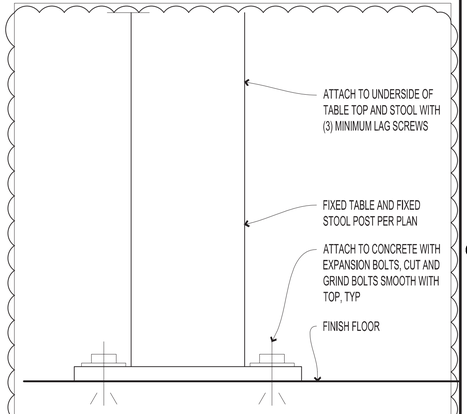
9 RUBBER BASE ON WALL COVERING AT CONCRETE FLOOR
SCALE: 6" = 1'-0"



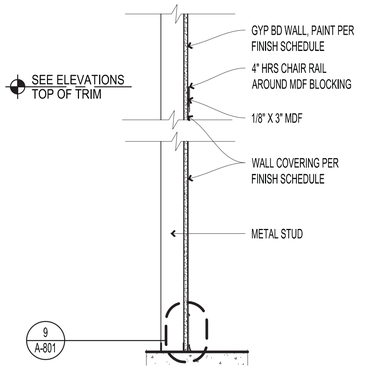
8 RUBBER BASE WITH FRP AT CONC FLOOR
SCALE: 6" = 1'-0" RUBBER BASE



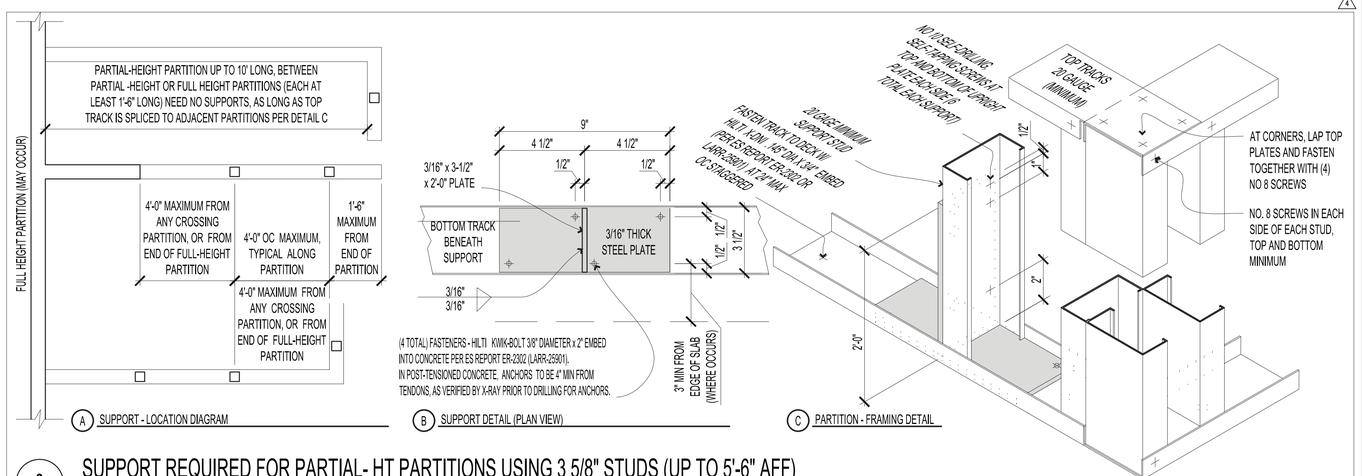
7 TILE BASE WITH WALL TILE AT CONCRETE FLOOR
SCALE: 6" = 1'-0" CONCRETE FLOOR



6 FIXED TABLE & FIXED STOOL BASE DETAIL
SCALE: 6" = 1'-0"



4 WAINSCOT - WALLCOVERING
SCALE: 1"= 1'-0"



3 SUPPORT REQUIRED FOR PARTIAL- HT PARTITIONS USING 3 5/8" STUDS (UP TO 5'-6" AFF)
SCALE: NOT TO SCALE

OWNER
MOD
2035 158th CT NE
Suite 200
Bellevue, WA 98008

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ENG COA #2005026904

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NUMBER A-2006
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Digitally signed by David Boyce
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A-801
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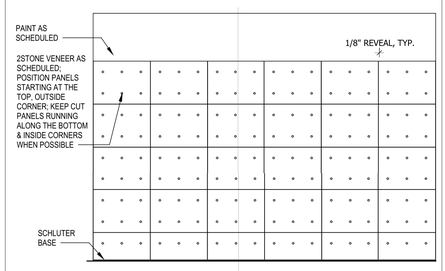
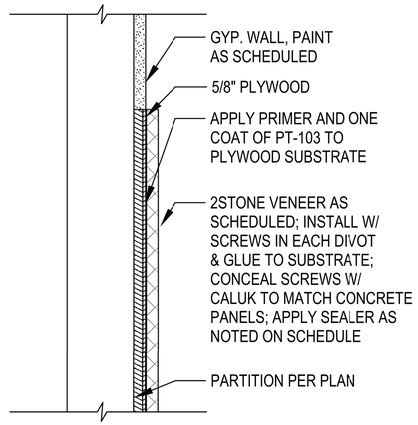
Lee's Summit, Missouri
02/02/2022

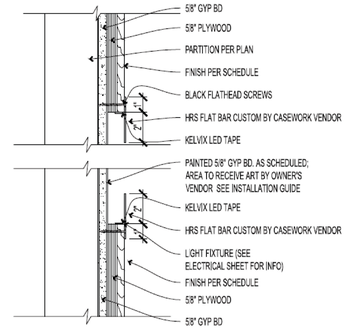
15 TILE LAYOUT PATTERN
SCALE: NTS



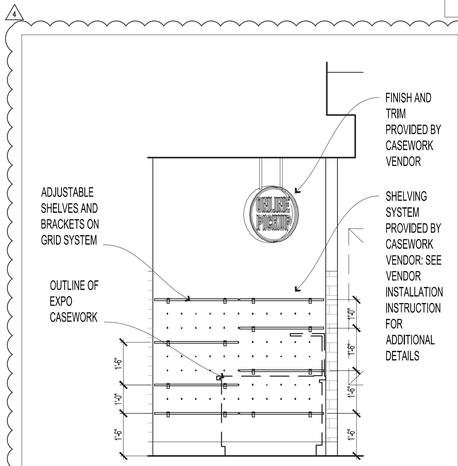
14 2STONE PANEL PLACEMENT DETAIL
SCALE: 3/16"= 1'-0"



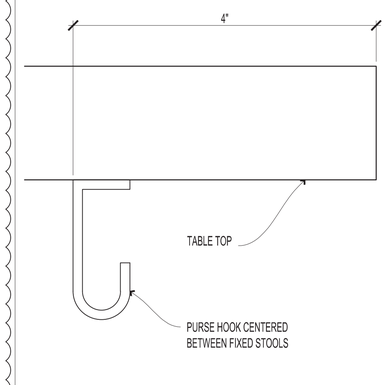
13 2STONE WALL TOP SECTION
SCALE: 1-1/2"= 1'-0"



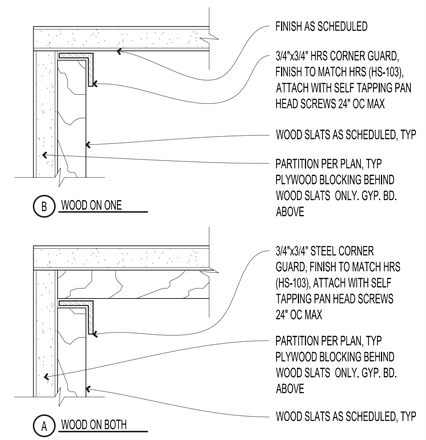
12 WALL OF FAME LIGHT COVE
SCALE: 3"= 1'-0"



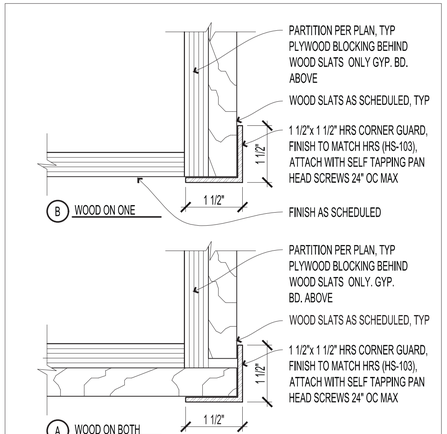
11 ONLINE ORDER PICK UP
SCALE: 3/8"= 1'-0"



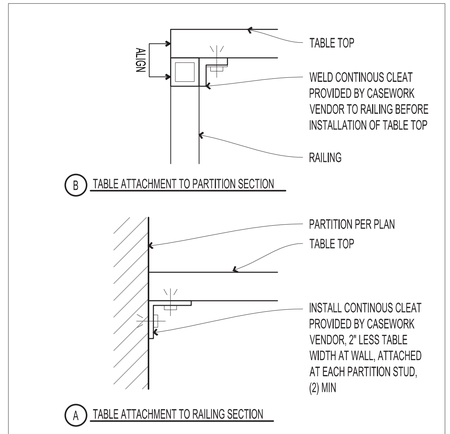
10 PURSE HOOK SECTION
SCALE: FULL SCALE



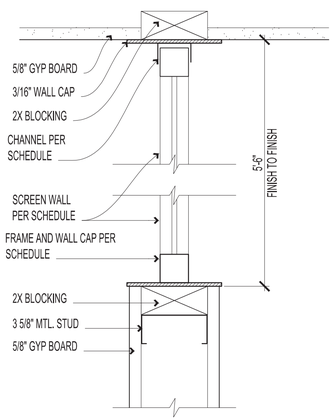
9 WOOD WALL INSIDE CORNER PLAN
SCALE: 6"= 1'-0"



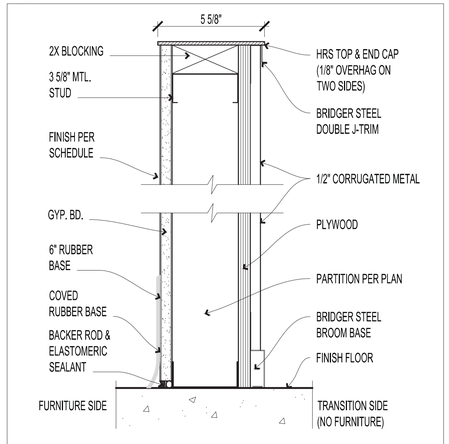
8 WOOD WALL OUTSIDE CORNER PLAN
SCALE: 6"= 1'-0"



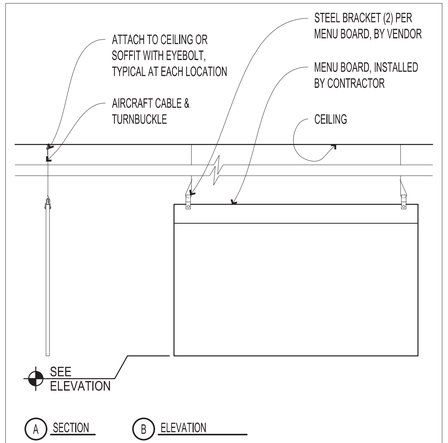
7 TABLE BRACKET CONNECTION
SCALE: 3"=1'-0"



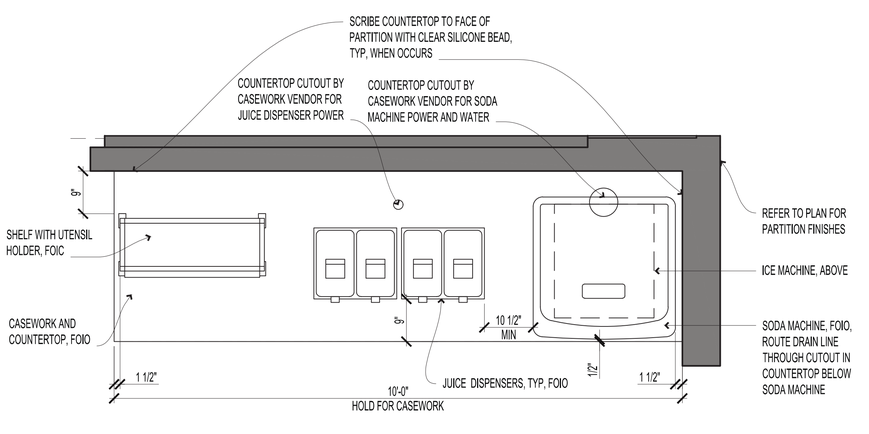
6 SCREEN WALL SECTION DETAILS
SCALE: 3"= 1'-0"



5 PARTIAL HEIGHT WALL SECTION DETAILS
SCALE: 3"= 1'-0"



4 EXTRAS/DRINKS MENU BOARD ELEVATION
SCALE: 3/4"= 1'-0"



2 BEVERAGE STATION ENLARGED PLAN
SCALE: 3/4"= 1'-0"

OWNER
MOD
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DAVID G. BOYCE
NUMBER A-2008037
ARCHITECT
Digitally signed by David Boyce
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A-802
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GENERAL NOTES

GENERAL:

1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
5. PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
6. LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA, STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMDOR, MILCOR, OR APPROVED.
7. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
8. REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
9. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
10. PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
12. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
13. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
14. PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
15. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
16. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
17. MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTER, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT SHALL CARRY A SHORT CIRCUIT CURRENT RATING (SCCR) EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT DELIVERED FROM ELECTRICAL SYSTEM. INCLUDE VISIBLE FACTORY NAMEPLATE FOR SUCH EQUIPMENT INDICATING SCCR OF EQUIPMENT IN ACCORDANCE WITH UL 1995 AND UL 508A. HVAC/SHEET METAL:

DUCT WORK:

1. DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
2. PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
3. PROVIDE MANUAL VOLUME DAMPER FOR EACH DIFFUSER, REGISTER, AND GRILLE.
4. PROVIDE DUCT ACCESS DOORS AT DUCT SMOKE DETECTORS, BACKDRAFT DAMPERS, MOTORIZED CONTROL DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, DUCT MOUNTED COILS, DUCT AIRFLOW STATIONS AND LOUVER PLENUMS.
5. PROVIDE THE FOLLOWING MINIMUM METAL BRANCH DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES, UNLESS NOTED TO USE LARGER SIZE ON DRAWINGS: SEE FLEX SIZE SCHEDULE ON SCHEDULE SHEET.

5.1. 6"Ø: 100 CFM
5.2. 8"Ø": 200 CFM
5.3. 10"Ø: 300 CFM
5.4. 12"Ø: 450 CFM
5.5. 14"Ø: 600 CFM
5.6. 16"Ø: 750 CFM

FIRE PROTECTION:

1. PAINT ALL EXPOSED AND VISIBLE FIRE SPRINKLER PIPING BLACK. DO NOT PAINT FIRE SPRINKLER HEADS.

ENERGY CODE:

1. MOTORS: COMPLY WITH MINIMUM FULL LOAD EFFICIENCIES LISTED IN THE STATE ENERGY CODE.
2. PIPING AND DUCT INSULATION: COMPLY WITH THICKNESS AND TYPES LISTED IN THE STATE ENERGY CODE.
3. DUCT SEALING: SEAL DUCT TRANSVERSE JOINTS AND LONGITUDINAL SEAMS PER STATE ENERGY CODE.
4. RECORD DRAWINGS: PROVIDE PER STATE ENERGY CODE.
5. OPERATION AND MAINTENANCE MANUALS: PROVIDE PER THE STATE ENERGY CODE.
6. SYSTEM BALANCING: PROVIDE PER THE STATE ENERGY CODE.
7. MECHANICAL SYSTEMS COMMISSIONING: PROVIDE PER THE STATE ENERGY CODE.
8. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH THE STATE ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
9. BUILDING PRESSURE TESTING: COORDINATE PHASING OF BUILDING ENVELOPE LEAKAGE TESTING WITH MECHANICAL SYSTEM SCOPES OF WORK. TEMPORARILY CAP SYSTEMS AS REQUIRED TO FACILITATE LEAKAGE TESTING SCOPE OF WORK.

NON-STRUCTURAL MECHANICAL COMPONENTS:

1. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
2. ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A. IF REQUIRED
3. CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS. IF REQUIRED
4. HANGERS AND BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.
5. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES:

2020 INTERNATIONAL BUILDING CODE
2020 INTERNATIONAL PLUMBING CODE
2020 INTERNATIONAL MECHANICAL CODE
2020 INTERNATIONAL ELECTRICAL CODE
2020 INTERNATIONAL ENERGY CODE
2020 INTERNATIONAL FIRE PREVENTION CODE

HOOD & GREASE EXHAUST DUCT NOTES

1. EXHAUST HOODS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL OR 18 GA. STAINLESS STEEL WITH ALL EXTERNAL SEAMS AND JOINTS CONTINUOUSLY WELDED 100% LIQUID TIGHT. EXHAUST HOODS SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA 96, ALL LOCAL CODES AND SHALL BEAR THE NSF SEAL OF APPROVAL.
2. ALL LIGHTS USED IN THE HOODS SHALL BE U.L. LISTED FOR CANOPY HOOD USE AND OF THE INCANDESCENT TYPE AND SHALL BE WIRED TO COME ON THRU A SWITCH LOCATED ON THE HOOD FACE.
3. THE EXHAUST HOODS SHALL HAVE ALL STAINLESS STEEL BAFFLE FILTERS AND SHALL HAVE A FIRE ACTUATED DAMPER IN THE MAKE-UP AIR COLLAR.
4. THE EXHAUST HOODS SHALL HAVE PREPIPED AUTOMATIC U.L. ANSUL FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF THE EXHAUST PLENUM & DUCT AND COOKING SURFACES. FIRE CONTROL CABINETS SHALL ALSO BE PROVIDED AS SHOWN AND SHALL HAVE MICRO SWITCHES FURNISHED AS REQUIRED FOR EQUIPMENT SHUT OFF. THERE SHALL BE A MANUAL PULL STATION NEAR THE EXIT DOOR AND MINIMUM OF 10'-0" FROM THE HOOD. (MUST BE FLUSH MOUNTED, CONDUIT RUN IN THE WALL).
5. THE SUPPLY FAN SWITCHES, 40 VA TRANSFORMERS, SUPPLY & EXHAUST FAN STARTERS, THERMAL OVERLOADS AND MECHANICAL GAS VALVE SHALL BE FURNISHED BY THE HOOD MANUFACTURER, AND SUPPLY FAN SWITCHES SHALL BE MOUNTED ON THE HOOD FACES. THE 40 VA TRANSFORMERS AND FAN STARTERS SHALL BE MOUNTED IN THE FIRE CONTROL CABINETS AND THE MECHANICAL GAS VALVE SHALL BE INSTALLED AS SHOWN ON THE PLUMBING DRAWINGS.
6. ALL EXHAUST COLLARS AND EXHAUST DUCTWORK ARE SIZED TO MAINTAIN BETWEEN 500 AND 2000 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS CONTINUOUSLY WELDED LIQUID TIGHT.
7. ALL HORIZONTAL RUNS OF GREASE EXHAUST DUCT SHALL SLOPE BACK TOWARD THE HOOD AT A SLOPE OF 1/4" PER FOOT. PROVIDE A RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER.
8. PROVIDE U.L. LISTED CLEANOUTS IN GREASE EXHAUST DUCTWORK AT A MINIMUM OF 10'-0" INTERVALS, AT EACH CHANGE OF DIRECTION AND AT EACH RESIDUE TRAP.
9. THE DISCHARGE OF THE GREASE EXHAUST FANS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
10. ALL GREASE EXHAUST DUCTWORK SHALL HAVE STANDARD OR RADIUS ELBOWS.
11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WARRANTIES.
12. THE FOLLOWING EQUIPMENT SHALL BE PROVIDED BY CAPTIVEAIRE SYSTEMS, FURNISHED AND INSTALLED BY THIS CONTRACTOR:

A.) STAINLESS STEEL HOODS AS SPECIFIED ABOVE WITH FIRE PROTECTION SYSTEMS, CONTROLS, STARTERS, FIRE CONTROL CABINETS CLOSURE STRIP AND MECH. GAS VALVE.

13. THE FOLLOWING SHALL BE SUPPLIED BY CAPTIVEAIRE AND INSTALLED BY GC.:

A. ALL HOODS, HOOD SUPPLY AND EXHAUST FANS WITH ROOF CURBS, PROVIDE ALL HOOD EXHAUST FANS WITH GREASE GUARDS) SUPPLIED BY CAPTIVEAIRE.
B. ALL DUCTWORK BETWEEN HOODS AND FANS - INSTALLED BY GC.
C. WIRING BETWEEN HOODS, FANS AND FIRE SYSTEM - INSTALLED BY GC.

14. KITCHEN HOOD TEST AND BALANCE REPORT SHALL BE SUBMITTED TO BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.
15. UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF. ACTIVATION OF THE AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST IMMEDIATELY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES. MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED.
16. ALL REMOTE MANUAL OPERATING DEVICES SHALL BE IDENTIFIED AS THE "HAZARD PROTECTED" PROVIDE PLAQUE AND SIGN AS REQUIRED BY LOCAL JURISDICTION.
17. ONE PLENUM NOZZLE SHALL BE PROVIDE FOR EVERY 10 FEET OF HOOD. REFER TO HOOD DRAWINGS FOR EXACT LOCATION.
18. THE HOOD INSTALLING CONTRACTOR SHALL PROVIDE THE LATEST SYSTEM MANUAL AS PROVIDED BY THE MANUFACTURER TO VERIFY THE SYSTEM INSTALLATION.
19. NONCOMBUSTIBLE BACK SPLASH TO EXTEND AT LEAST 18" IN ALL DIRECTIONS FROM THE HOOD.
20. EXTERNAL HOOD JOINTS, SEAMS AND PENETRATIONS FOR TYPE 1 HOODS SHALL BE MADE WITH A CONTINUOUS EXTERNAL LIQUID-TIGHT WILD OR BRAZE TO THE LOWEST OUTERMOST PERIMETER OF THE HOOD.
21. PRIOR TO THE USE OF CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEXT SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BY CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATING OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEXT SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID-TIGHT.

OVEN HOOD VENDOR: CAPTIVE AIRE SYSTEMS, REGION 85
PHONE: 425-212-5996x2
CONTACT: JON CLARKE
EMAIL: REG85@CAPTIVEAIRE.COM

NOTE:
EACH HOOD SHALL BEAR THE FOLLOWING APPROVALS:
NSF # 1362, SBCCI # 8469, U.L. CLASSIFICATION # 91G6, NFPA #90A, 90B, 96-101

REFERENCE SYMBOLS

- NEW MECHANICAL WORK
- EXISTING MECHANICAL WORK
- EXISTING MECHANICAL WORK TO BE DEMOLISHED
- ENLARGED PLAN BORDER
- MATCHLINE
- SECTION IDENTIFIER (1 / MX.X)
- DETAIL OR DRAWING IDENTIFIER (1 / MX.X)
- REVISION CLOUD INDICATES WHERE SECTION APPEARS
- INDICATES REVISION & NUMBER (1)
- FLAG NOTE (1)
- EQUIPMENT IDENTIFIER (AHU-XXX)
- POINT OF CONNECTION
- NORTH ARROW
- MECHANICAL ACCESS

DUCTWORK SYMBOLS

- NEW DUCTWORK
- RISE OR DROP DIRECTION OF AIR FLOW (R / D)
- INTERNALLY LINED DUCT
- MANUAL VOLUME DAMPER
- BACKDRAFT DAMPER (BDD)
- MOTOR OPERATED DAMPER (M)
- DUCT SMOKE DETECTOR (DSD)
- FIRE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- HORIZONTAL FIRE DAMPER
- HORIZONTAL SMOKE DAMPER
- HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
- FLEXIBLE CONNECTION
- UNDERCUT DOOR (UC)
- SUPPLY AIR DUCT SECTION
- RETURN OR OUTSIDE AIR DUCT SECTION
- EXHAUST AIR DUCT SECTION
- RECTANGULAR DUCT UP
- RECTANGULAR DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- FLEXIBLE DUCTWORK

DIFFUSER, REGISTER, AND GRILLE SYMBOLS

- AIR DEVICE TAG (X XxX CFM)
- SUPPLY DIFFUSER
- RETURN OR RELIEF GRILLE
- EXHAUST GRILLE
- SIDEWALL GRILLE (SUPPLY), LOUVER (EXHAUST OR RETURN)
- SIDEWALL GRILLE (RETURN OR EXHAUST), LOUVER (OUTSIDE)
- LINEAR GRILLE
- ROUND DIFFUSER

CONTROLS

- (T) ROOM THERMOSTAT
- (S) ROOM SENSOR
- (P) ROOM PRESSURE SENSOR
- (H) ROOM HUMIDITY SENSOR
- (CO) ROOM CARBON MONOXIDE SENSOR
- (CO2) ROOM CARBON DIOXIDE SENSOR
- (OS) OCCUPANCY SENSOR
- (RT) REMOTE TEST STATION
- VFD VARIABLE FREQUENCY DRIVE
- STR STARTER OR STARTER/DISCONNECT
- DDC DIRECT DIGITAL CONTROL PANEL
- DP DIFFERENTIAL PRESSURE TRANSMITTER
- CONTROL WIRING
- $ SWITCH

MECHANICAL SHEET INDEX

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HVAC ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
ERTU	EXISTING ROOF TOP UNIT FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
°F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FOOT OR FEET
HP	HORSEPOWER
kW	KILOWATT
HZ	HERTZ
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTU'S PER HOUR
MCA	MAXIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N T S	NOT TO SCALE
OA	OUTSIDE AIR
PH	PHASE
REL	RELIEF
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SHC	SENSIBLE HEAT CAPACITY
SQ. FT.	SQUARE FEET
T	THERMOSTAT

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

OWNER
MOD
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Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
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INTERPLAN LLC
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ENG COA #2005026904

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ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:46-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

M-001
MECHANICAL LEGEND AND GENERAL NOTES

CHECKED: DAK DRAWN: QN

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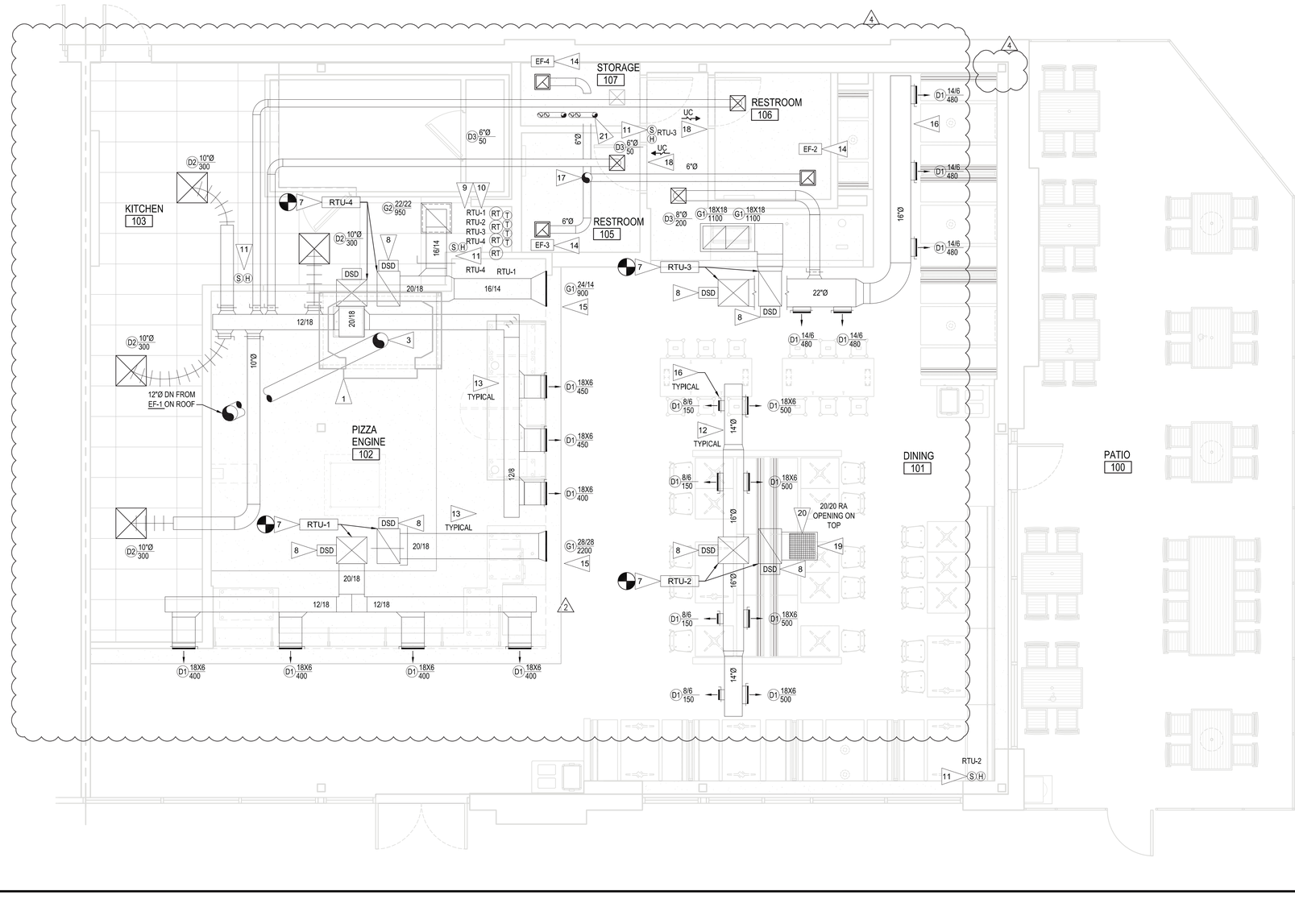
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022



MECHANICAL FLOOR PLAN

NORTH

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

0 2 4 8

NOTE:
UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF. ACTIVATION OF THE AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST IMMEDIATELY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES. MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED. ALL MAKEUP AIR FANS AND KITCHEN ROOFTOP UNITS SHALL DE-ENERGIZE UPON ACTIVATION OF FIRE/ANSUL HOOD SYSTEM.

NOTE:
PROVIDE WALL MOUNTED TEMPERATURE SENSORS IN EACH ZONE. PRIOR TO INSTALLATION VERIFY LOCATION OF TEMPERATURE SENSOR DOES NOT CONFLICT WITH WALL GRAPHICS, WALL ARTWORK, MENU BOARDS, AND BADGES.

NOTE:
ADD INTERLOCK TIMER FOR OVEN AND OVEN EXHAUST.

DUCT SIZING METHOD
SIZE ANY NEW DUCTWORK USING A DUCTULATOR. SIZE DUCTWORK AT 0.08" FRICTION PER 100 FT OF DUCT. FLEX SHALL BE SIZED 0.05" PER 100FT.

KEYED NOTES

1. OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIRE SYSTEMS REGION 85, 425-212-5996, REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED. REFER TO H-SERIES SHEETS BY CAPTIVE AIRE FOR ADDITIONAL INFORMATION.
2. NOT USED. (3)
3. 12"Ø EXHAUST DUCT UP TO EF-1 ON ROOF. CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVEAIRE SYSTEMS FOR FABRICATION. FABRICATION AND DELIVER TAKE FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY.
4. NOT USED. (3)
5. NOT USED.
6. NOT USED.
7. FULL SIZE SUPPLY AND RETURN AIR DUCT UP TO LANDLORD PROVIDED ROOFTOP UNITS TRANSITION AND OFFSET AS REQUIRED. FIELD VERIFY ALL ROUTING AND REQUIREMENTS PRIOR TO BID AND INSTALLATION. ALL ROOF WORK TO BE BY LANDLORDS ROOFING CONTRACTOR.
8. VERIFY EXISTING DUCT SMOKE DETECTOR. IF NON-EXISTING CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY & RETURN DUCT AND ALL WIRING CONNECTIONS. THE DUCT SMOKE DETECTOR SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM IF EXISTING. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTOR AND REMOTE TEST STATION. ELECTRICAL CONTRACTOR SHALL CONNECT TO A FIRE ALARM SYSTEM. THE ACTIVATION OF THE DUCT SMOKE DETECTOR SHALL ACTIVATE AN AUDIBLE/VISUAL ALARM AT A CONSTANTLY ATTENDED LOCATION. MECHANICAL AND ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODES. EXACT LOCATION OF REMOTE STATION SHALL BE FIELD VERIFIED.
9. VERIFY EXISTING REMOTE TEST STATION AND RELOCATE TO WHERE SHOWN ON PLANS. IF NON-EXISTING CONTRACTOR SHALL PROVIDE REMOTE TEST STATION FOR RTU'S SMOKE DETECTORS. MOUNT TEST STATIONS IN THIS LOCATION. PROVIDE WITH AUDIBLE AND VISUAL ALARM WITH KEYED RESET. MOUNT TEST STATION 48 INCHES AFF. MOUNT AT MANAGER STATION. MOUNT AUDIBLE AND VISUAL ALARM IN CONSTANTLY ATTENDED LOCATION. AUDIBLE AND VISUAL ALARM IS NOT REQUIRED WHERE DUCT SMOKE DETECTOR ACTIVATES THE BUILDING'S ALARM SYSTEM. LABEL EACH REMOTE WITH ASSOCIATED ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION WITH TENANTS CONSTRUCTION MANAGER.
10. VERIFY EXISTING THERMOSTAT AND RELOCATE TO WHERE SHOWN ON PLANS. IF NON-EXISTING MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THERMOSTAT AT THE MANAGERS DESK. THERMOSTAT SHALL BE HONEYWELL MODEL VISION PRO 8000. MOUNT AT 46" AFF. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. WIRE TO HVAC EQUIPMENT PER MANUFACTURER'S PRINTED INSTRUCTIONS. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
11. VERIFY EXISTING TEMPERATURE/HUMIDITY SENSOR AND RELOCATE TO WHERE SHOWN ON PLANS. MECHANICAL CONTRACTOR TO INSTALL TEMPERATURE/HUMIDITY SENSOR AT THIS LOCATION. MOUNT ON WALL AT 60" AFF. PROVIDE CONDUIT FOR CONTROL WIRE. FIELD VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION WITH OWNERS REPRESENTATIVE. DO NOW PLACE ON ANY EXTERIOR WALL.
12. ROUND EXPOSED SUPPLY DUCT SHOWN IN DINING AREA SHALL BE GALVANIZED DOUBLE-WALL INSULATED SPIRAL DUCT. ALL DUCTWORK SHALL BE HUNG AT THE SAME HEIGHT AND AS HIGH AS POSSIBLE. SPIRAL DUCT SHALL BE ORDERED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE SPIRAL BELOW JOIST AND ROUTE DUCT HIGH AS POSSIBLE. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID. SEE ARCHITECTURAL DRAWING FOR COLOR TO PAINT DUCTWORK IF REQUIRED. PAINT ALL REQUIRED DIFFUSERS AND REGISTERS PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR DETAILS. ANY PAINTING OF DIFFUSER SHALL BE DONE PRIOR TO INSTALLATION.
13. ALL NEW SUPPLY AND RETURN DUCTWORK ABOVE CEILING SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH TYPE 150, 2 INCH THICK, DUCTWRAP. INSTALLED R VALUE SHALL BE A MINIMUM OF 6.4. SEAL ALL JOINTS AND SEAMS WITH GLASS FABRIC AND MASTIC MEETING UL 181.
14. PROVIDE WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.
15. LOCATE RETURN AIR GRILLES IN BULK HEAD ABOVE SOFFIT AND PAINT TO MATCH ADJACENT WALL SURFACE. PAINT GRILLES PRIOR TO INSTALLATION.
16. CONTRACTOR TO MAKE SURE THAT SUPPLY SIDEWALL AIR DEVICES AVOID BLOWING ON PENDANT LIGHT STEMS, TYPICAL ALL SIDEWALLS.
17. 8"Ø EXHAUST DUCT UP THRU ROOF, PROVIDE BACKDRAFT DAMPER, RAIN CAP AND 1/4 SQ. NON CORROSIVE WIRE MESH. EXHAUST DUCT SHALL BE GALVANIZED DUCT.
18. GC TO UNDERCUT DOOR 1" FOR AIR PASSAGE.
19. EXPOSED RA DUCT IN DINING AREA SHALL BE GALVANIZED DOUBLE-WALL INSULATED RECTANGULAR DUCT. ALL DUCTWORK SHALL BE HUNG AT THE SAME HEIGHT AND AS HIGH AS POSSIBLE. DUCT SHALL BE ORDERED AND INSTALLED BY MECHANICAL CONTRACTOR. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID. SEE ARCHITECTURAL DRAWING FOR COLOR TO PAINT DUCTWORK IF REQUIRED. PAINT ALL REQUIRED DIFFUSERS AND REGISTERS PRIOR TO INSTALLATION, REFER TO ARCHITECTURAL PLANS FOR DETAILS, ANY PAINTING OF DIFFUSER SHALL BE DONE PRIOR TO INSTALLATION.
20. PROVIDE 22/20 DOWN FROM UNIT ON ROOF, EXTEND AS SHOWN AND CAP END OF DUCT. TAP 20/20 OPENING INTO TOP OF 22/20 RA DUCT SO AS NOT TO BE SEEN FROM BELOW, BALANCE TO CFM SHOWN ON SCHEDULE. PROVIDE 1/2"x1/2" PROTECTIVE NON CORROSIVE WIRE MESH TO PROTECT OPENING.
21. ROUTE 4" WATER HEATER INTAKE AND EXHAUST PIPING UP TO CONCENTRIC VENT PIPE UP TO ROOF. MAINTAIN 10'-0" CLEARANCE FROM ANY FRESH AIR INTAKE.

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ARCHITECTURE
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220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER
Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:47-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
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PERMIT SET 09.20.21

M-111
MECHANICAL FLOOR PLAN

CHECKED: DAK DRAWN: QN

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01/04/2022

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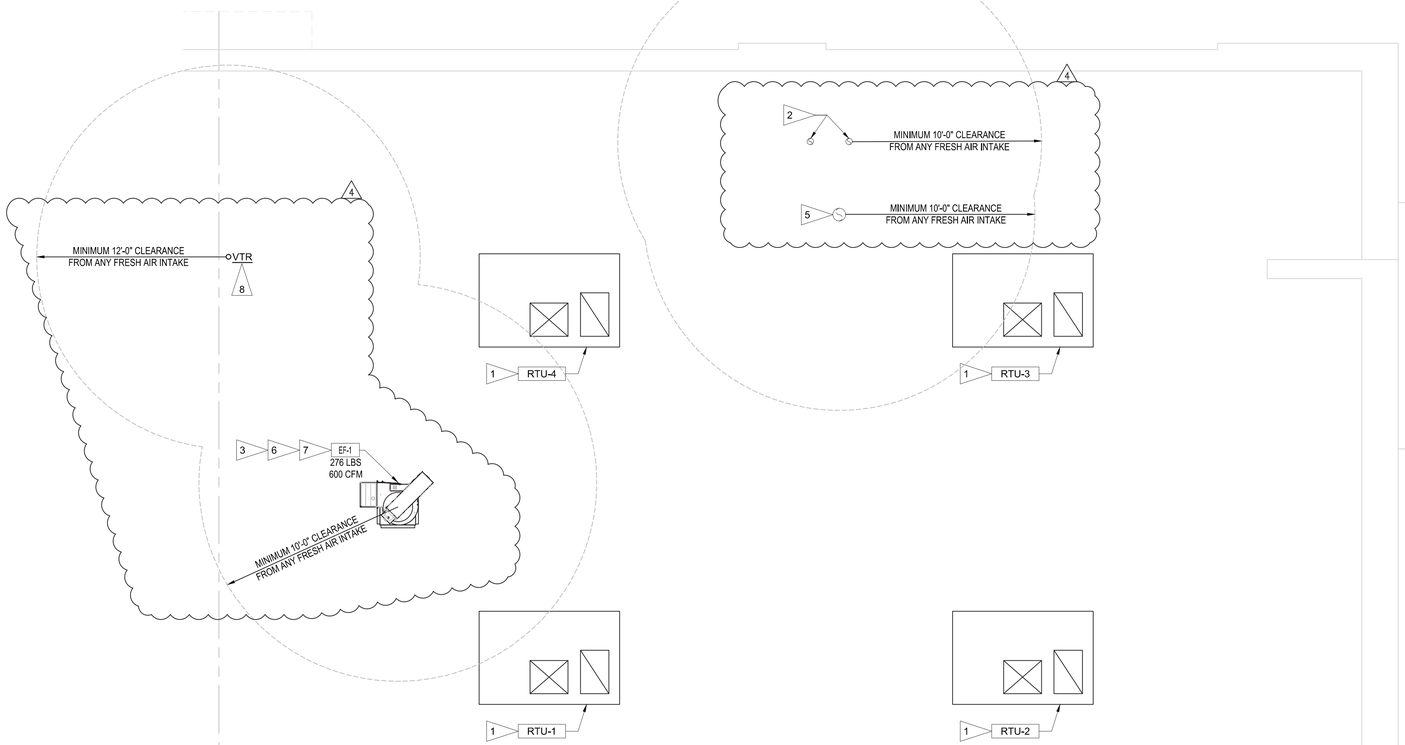
Lee's Summit, Missouri
02/02/2022



KEYED NOTES

1. EXISTING RTU TO REMAIN AND REUSE. REFER TO SCHEDULE ON SHEET M-601 FOR INFORMATION.
2. CONCENTRIC VENT FROM WATER HEATER UP THROUGH ROOF. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.
3. COORDINATE EXACT ROOFTOP EQUIPMENT LOCATION FOR OPENINGS IN THE ROOF WITH THE STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
4. NOT USED.
5. 8"Ø EXHAUST UP FROM RESTROOMS. RESTROOM EXHAUST DUCT SHALL GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
6. PROVIDE ALL NEW GREASE EXHAUST FAN WITH PRE-FABRICATED ROOF CURBS AND PROVIDED BY CAPTIVEAIRE INSTALLED BY GC. SECURE FAN TO CURB WITH SCREWS PER LOCAL CODE REQUIREMENTS. HOOD EXHAUST FAN SHALL BE MINIMUM 40" FROM ROOF SURFACE AND 10'-0" MINIMUM FROM AND FRESH AIR INTAKE. FIELD VERIFY EXACT CONDITIONS.
7. PROVIDE CAPTIVEAIRE HINGED BASE KIT OR EQUAL. THE HINGED BASE KIT IS A FIELD INSTALLED OPTION WHICH PROVIDES A LOCKABLE, HINGED CONNECTION BETWEEN THE FAN AND CURB. THIS ALLOWS EASY ACCESS TO THE WHEEL AND INLET OF THE FAN AS WELL AS THE INTERIOR DUCTWORK. THE KIT INCLUDES TWO HINGE PLATES, TWO LATCH PLATES, HINGE BOLTS, AIRCRAFT CABLE AND CLAMPS. SET FAN SO WHEN OPEN UP THERE IS ACCESS FOR CLEANING.
8. 4" VTR FROM VENT LINE UP THROUGH ROOF. MAINTAIN 12' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.

NOTE TO TENANT:
RESTROOMS EXHAUST FANS SHOULD NOT BE ENGAGED AFTER RESTAURANT OPERATION HOURS, TO AVOID HIGH HUMIDITY PROBLEMS. IF FAN IS ENGAGED WITHOUT PROPER MAKEUP AIR HUMIDITY WILL BE DRAWN IN TO THE BUILDING.

NOTE:
ALL NEW ROOFING WORK TO BE PERFORMED BY LANDLORDS ROOFING CONTRACTOR.

MECHANICAL ROOF PLAN

NORTH

0 2 4 8
SCALE: 1/4"=1'-0"

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M-131
MECHANICAL ROOF PLAN

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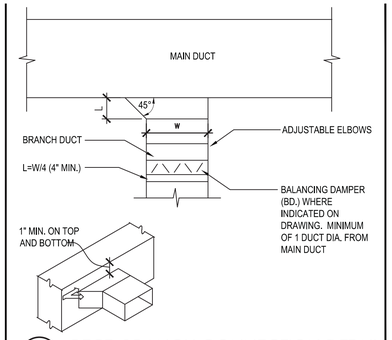
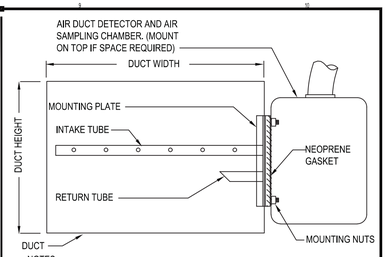
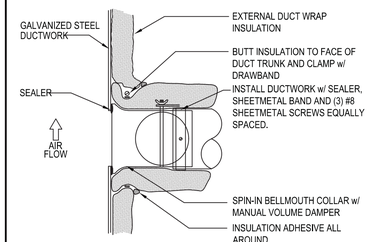


2 RECT. BRANCH CONNECTION DETAIL
SCALE: NONE

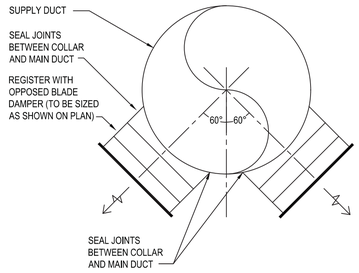


NOTES:
1. SMOKE DETECTOR FURNISHED FIRE ALARM CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. INSTALL PER NFPA 90A
5. MOUNT REMOTE INDICATOR/RESET BY THERMOSTATS

1 SMOKE DETECTOR DETAIL
SCALE: NONE



4 DUCT FITTING DETAIL
SCALE: NONE



3 ANGLED REGISTER DETAIL
SCALE: NONE

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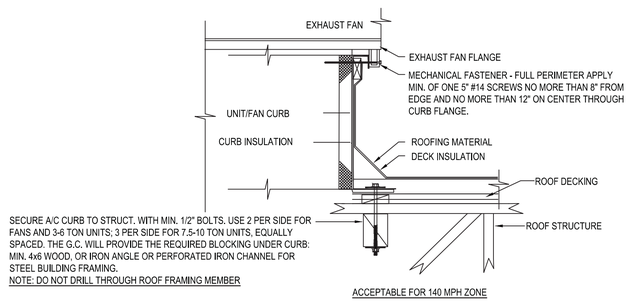
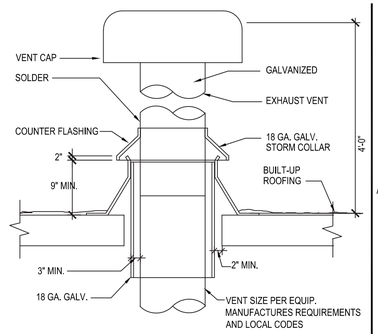
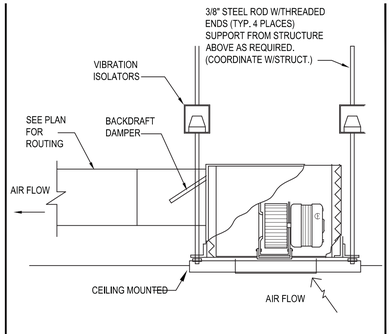


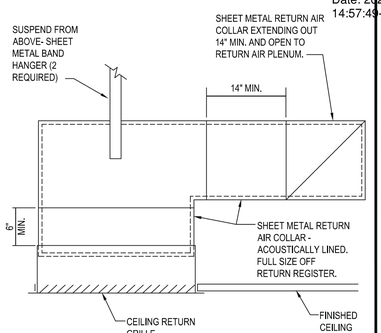
8 ROOF EQUIPMENT MOUNTING DETAIL
SCALE: NONE



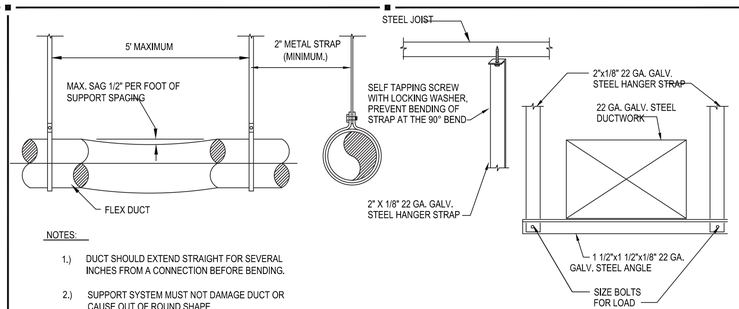
7 EXHAUST VENT THRU ROOF DETAIL
SCALE: NONE



6 CABINET EXHAUST FAN DETAIL
SCALE: NONE



5 CEILING RETURN AIR GRILLE DETAIL
SCALE: NONE

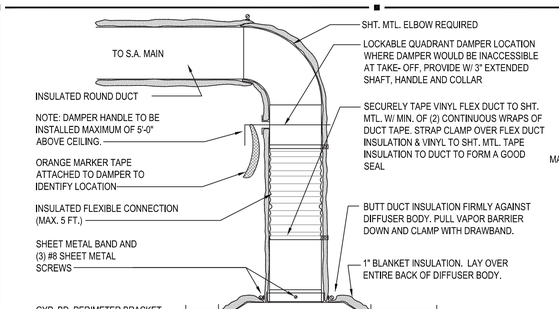


NOTES:
1.) DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2.) SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

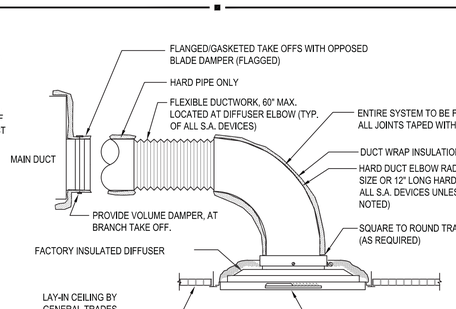
UPPER ATTACHMENT - TYP.

TRAPEZE HANGER
LOWER ATTACHMENT - TYP.

10 DUCT HANGING DETAIL
SCALE: NONE



9 DIFFUSER CONNECTION DETAIL
SCALE: NONE



NOTE:
INSTALLATION SIMILAR FOR GYP. BOARD CEILING

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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M-501
MECHANICAL DETAILS

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Development Services Department
Lee's Summit, Missouri
02/02/2022

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	MANUFACTURER / MODEL	TYPE	MATERIAL	FINISH	FACE SIZE	DUCT INLET	MOUNTING	PATTERN	DAMPERS
D1	TITUS 300RS	SUPPLY GRILLE	ST	NOTE 7	NOTE 2	NOTE 3	NOTE 4	FA	NOTE 8
D2	TITUS PCS	PERFORATED SUPPLY DIFFUSER	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
D3	TITUS TDC-AA	LOUVERED FACE SUPPLY DIFFUSER	AL	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
G1	TITUS 350RL	RETURN GRILLE	ST	NOTE 5	NOTE 2	NOTE 3	NOTE 4	-	NONE
G2	TITUS PAR	PERFORATED RETURN GRILLE	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE

NOTES:
1. SEE DRAWINGS FOR FACE SIZE (24x24 OR 12x12). PROVIDE 24x24 FOR LAY IN CEILINGS.
2. FACE SIZE DETERMINED FROM DUCT INLET SIZE.
3. SEE AIR DEVICE TAG FOR DUCT INLET SIZE.
4. COORDINATE BORDER TYPE (SURFACE MOUNT, SNAP IN, LAY-IN, SPLINE, DROPPED FACE, AND BEVELED DROP FACE) WITH CEILING TYPE AS SHOWN IN ARCHITECTURAL CEILING PLANS.
5. PROVIDE COLOR TO MATCH CEILING FINISH.
6. SLOTTED DIFFUSER SHALL BE 5' LONG x 2 SLOTS.
7. WHEN INSTALLED WITH DUCTWORK PAINT GRILLE GRAY TO MATCH DUCTWORK. OTHERWISE PAINT TO MATCH PARTITION.
8. PROVIDE WITH OPPOSED BLADE DAMPERS.

ABBREVIATIONS:
ST = STEEL, AL = ALUMINUM, BE = BAKED ENAMEL, AA = ANODIZED ALUMINUM, FA = FULLY ADJUSTABLE, TP = TWO POSITION, OPD = OPPOSED BLADE DAMPERS, ADJ = ADJUSTABLE, BA=BAKED ACRYLIC, BO = BLANK OFF, DB = DIRECTIONAL BLADES, AND P = PLENUM.

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST
EF-1	-	-	-	-600
EF-2	-	-	-	-75
EF-3	-	-	-	-75
EF-4	-	-	-	-75
RTU-1	2600	2200	400	-
RTU-2	2600	2200	400	-
RTU-3	2600	2200	400	
RTU-4	2600	2200	400	
TOTAL	10400	8800	1600	-825
			BUILDING PRESSURE	775

THERMOSTAT SCHEDULE

MARK	SERVICE LOCATION	OCCUPIED		UNOCCUPIED	
		COOLING	HEATING	COOLING	HEATING
RTU-1	DINING	72	68	80	64
RTU-2	DINING	72	68	80	64
RTU-3	DINING/KITCHEN/RR	72	68	80	64
RTU-4	DINING/KITCHEN/RR	72	68	80	64

NOTES:

1. CONTRACTOR SHALL COORDINATE EXACT OPERATIONAL TIMES WITH OWNER/MANAGER PRIOR TO PROGRAMMING.

2. CONTRACTOR SHALL INTERLINK RESTROOM EXHAUST FAN WITH OCCUPANCY SENSOR.

3. CONTRACTOR MUST VERIFY THAT HUMIDITY CONTROLS AND SENSORS FUNCTIONS PER MANUFACTURERS SPECIFICATIONS. SET TO 50% RH IN THE SPACE.

CONTROL SEQUENCE OF OPERATIONS

DAY CYCLE - COOLING

1. SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
2. OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
3. THERMOSTAT SHALL CYCLE COMPRESSOR(S) TO MAINTAIN ROOM SET TEMPERATURE.

DAY CYCLE - HEATING

1. SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
2. OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
3. THERMOSTAT SHALL CYCLE ELECTRIC HEATER TO ACHIEVE ROOM SET TEMPERATURE.

DAY CYCLE - DEHUMIDIFICATION (APPLIES TO UNITS WITH THIS OPTION)

1. SUPPLY AIR FANS SHALL RUN CONTINUOUSLY.
2. MECHANICAL OUTSIDE AIR DAMPERS SHALL BE IN OPEN POSITION.
3. RESTROOM EXHAUST FANS SHALL BE ENERGIZED.
4. HUMIDISTAT SHALL CYCLE COOLING COIL STAGES TO MAINTAIN SET POINT HUMIDITY.

ECONOMIZER

1. SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
2. OUTSIDE AIR DAMPER SHALL MODULATE FROM MINIMUM TO 100% OUTSIDE AIR TO MAINTAIN ROOM SET TEMPERATURE.

MORNING WARM-UP

1. SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
2. OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
3. WHEN SET TEMPERATURE IS REACHED COOLING OR HEATING CYCLE SHALL COMMENCE.

NIGHT SETBACK

1. OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
2. THERMOSTAT SHALL CYCLE EITHER COOLING OR HEATING AND SUPPLY AIR FAN TO MAINTAIN ROOM SET TEMPERATURE.

SMOKE DETECTOR

1. WHEN SMOKE DETECTOR IS ACTIVATED SUPPLY AIR FAN SHALL SHUTDOWN.
2. SUPPLY AIR FAN SHALL BE MANUALLY RESET.

EXISTING PACKAGED ROOF TOP UNIT SCHEDULE

TAG	NEW OR EXSITING	SERVICE	MANUFACTURER/MODEL	SUPPLY AIR (CFM)	ESP (IN WC)	OUTSIDE AIR FLOW (CFM)	HEATING		COOLING	EFFICIENCY	ELECTRICAL			DIMENSIONS L" x W" x H"	WEIGHT (LBS)	NOTES
							INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	TOTAL CAPACITY (MBH)	SEER/EER	MCA (AMPS)	MOCP (AMPS)	VOLTAGE/PHASE (V/Ø)			
RTU-1,2,3,4	EXISTING	DINING/KITCHEN	YORK/ZF078	2600	-	400	180	-	78	11.2	-	-	208V/3Ø	-	-	1-2

NOTES:
1. PROVIDE NEW HONEYWELL VISION PRO 8000 7-DAY PROGRAMMABLE THERMOSTAT. INSTALL CONTROL THERMOSTATS IN MANAGER'S AREA IN BACK OF HOUSE WITH TEMPERATURE SENSOR/ HUMIDITY SENSOR H7365A IN EACH ZONE.
2. RELOCATE EXISTING T'STAT.

NOTE:
ALL HVAC UNITS AND REQUIRE INTERLINKING FOR FAN SHUTDOWN UPON ACTIVATION OF SPRINKLER FLOW SWITCH OR GLOBAL ALARM. UNITS OVER 2000 CFM REQUIRE DUCT SMOKE DETECTION ON RETURN AND SUPPLY SIDE PER 2002 NFPA 90A. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL REQUIREMENTS PRIOR TO BID.

NOTE:
G.C. SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING. VERIFY ALL CONTROLS WITH HONEYWELL REP PRIOR TO ORDERING

VENTILATION CALCULATIONS

ROOM NUMBER & NAME	AREA (SF)	# OF PEOPLE	REQ'D OA CFM/PERSON	REQ'D OA CFM/SF	ZONE EFFECTIVENESS	TOTAL OA
101 DINING ROOM	1450	80	7.5	0.18	0.8	1076
102 PIZZA ENGINE	550	4	7.5	0.12	0.8	120
103 KITCHEN	400	2	7.5	0.12	0.8	79
					REQUIRED OUTSIDE AIR	1275
					PROVIDED OUTSIDE AIR	1300

NOTE:
1. ESTIMATED MAXIMUM OCCUPANCY AND REQUIRED OUTSIDE AIR IS BASED ON CURRENT EDITION INTERNATIONAL MECHANICAL CODE.

FAN SCHEDULE

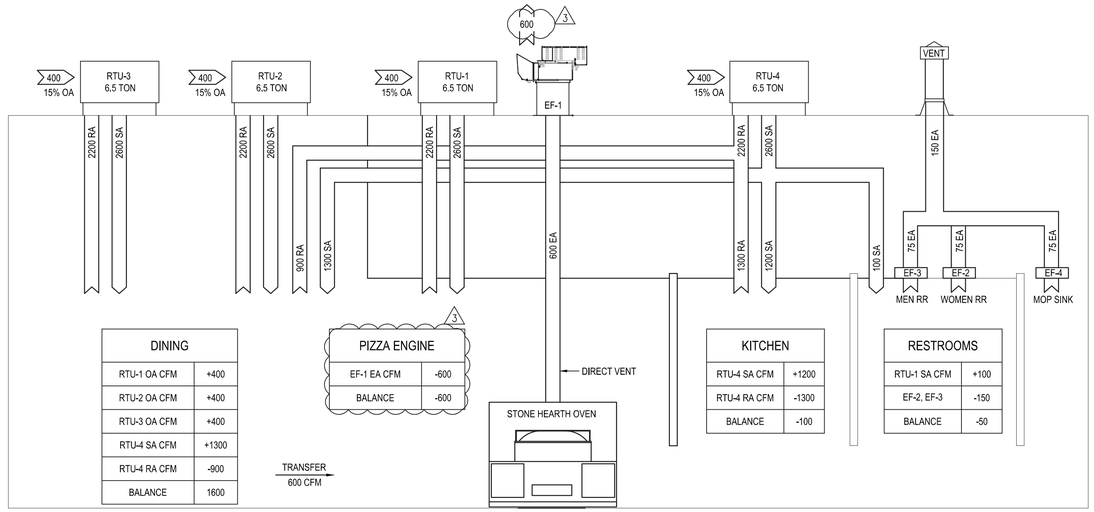
TAG	MODEL	DESCRIPTION	LOCATION	CFM	ESP	HP	RPM	FLA	V/PH/HZ	WEIGHT	NOTES
EF-1	CAPTIVEAIRE CASRE13BD	PIZZA HOOD EXHAUST	ROOF	600	.2	0.5	867	7.6	115/1/60	247	A,B,C,D,E
EF-2	COOK GC-146	WOMEN'S RR	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G
EF-3	COOK GC-146	MEN'S RR	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G
EF-4	COOK GC-146	MOP SINK	CEILING	75	.375	33.1W	900	-	120/1/60	12	F,G

NOTES

A. GREASE EXHAUST FAN AND ACCESSORIES TO BE FURNISHED THRU CAPTIVEAIRE, INSTALLED BY MECHANICAL CONTRACTOR.
B. PROVIDE WITH VENTED ROOF CURB, HINGED BASE CHAIN AND HASP KIT AND BUILT-IN GREASE TROUGH DRAIN FITTING.
C. PROVIDE DISCONNECT SWITCH.
D. INTERLOCK WITH OVEN CONTROL PANEL.
E. PROVIDE PRE FABRICATED CURB FROM CAPTIVEAIRE.
F. EXHAUST DUCT SHALL BE GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED INCLUDING SPEED CONTROLLER CONCEALED AND ACCESSIBLE. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
G. PROVIDE EXHAUST FANS WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.

NOTE: EXHAUST FAN EF-1 FURNISHED WITHIN CAPTIVEAIRE SYSTEMS PACKAGE TO BE PROCURED BY MECHANICAL CONTRACTOR THROUGH CAPTIVEAIRE SYSTEMS REGION 85 ONLY (JON CLARKE, 425-212-5966 EXT. 2) AND INSTALLED BY MECHANICAL CONTRACTOR. SEE H-SERIES SHEETS FOR ADDITIONAL INFO.

BUILDING PRESSURE DIAGRAM



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STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:50-05'00'

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4	EXISTING CONDITIONS	01.04.21

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M-601
MECHANICAL SCHEDULES

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REFERENCE SYMBOLS

- NEW PLUMBING WORK
- EXISTING PLUMBING WORK
- EXISTINGPLUMBING WORK TO BE DEMOLISHED
- ENLARGED PLAN BORDER
- MATCHLINE
- SECTION IDENTIFIER (1 / P.X.X)
- DETAIL OR DRAWING IDENTIFIER (1 / P.X.X)
- REVISION CLOUD INDICATES WHERE SECTION APPEARS
- INDICATES REVISION & NUMBER (1)
- FLAG NOTE (1)
- EQUIPMENT IDENTIFIER (P-XXX)
- POINT OF CONNECTION
- NORTH ARROW
- MECHANICAL ACCESS

PLUMBING LINE DESIGNATION SYMBOLS

- DOMESTIC COLD WATER (POTABLE)
- DOMESTIC HOT WATER (POTABLE)
- DOMESTIC HOT WATER CIRCULATING (POTABLE)
- SANITARY SEWER ABOVEGROUND
- SANITARY SEWER UNDERGROUND
- VENT PIPING
- GW — GREASE WASTE ABOVEGROUND
- GW — GREASE WASTE UNDERGROUND
- G — LOW PRESSURE NATURAL GAS
- MPG — MEDIUM PRESSURE NATURAL GAS
- RWL — RAIN WATER LEADER
- ORWL — OVERFLOW RAIN WATER LEADER

PIPING ELEMENTS/VALVING

- VALVE
- CHECK VALVE
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TEMPERATURE/PRESSURE RELIEF VALVE
- RELIEF/SAFETY VALVE
- DIRECTION OF FLOW
- R D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- UNION
- PRESSURE GAUGE
- THERMOMETER
- AQUASTAT
- GAUGE WITH GAUGE COCK & SIPHON (STEAM)
- GAS PRESSURE REGULATOR
- EXPANSION JOINT
- FLEXIBLE CONNECTOR
- WM — WATER METER
- GM — GAS METER
- PUMP
- BACKFLOW PREVENTION DEVICE (REDUCED ZONE)
- BACKFLOW PREVENTION DEVICE (DOUBLE CHECK VALVE ASSEMBLY)
- WATER HAMMER ARRESTER
- HOSE BIBB
- ROOF DRAIN
- FLOOR DRAIN
- HUB DRAIN
- FLOOR SINK
- FCO — CLEAN-OUT (FLOOR)
- WCO — CLEAN-OUT (WALL)
- CO — CLEAN-OUT
- PIPE CONTINUES
- PIPE CAP
- VTR — VENT THRU ROOF
- TRENCH DRAIN
- PIPE RISING UP
- PIPE DROPPING DOWN
- PIPE CONNECTION
- PIPE CONNECTION DOWN

GENERAL NOTES

GENERAL:

1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
5. PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
6. LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA, STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMDOR, MILCOR, OR APPROVED.
7. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
8. REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
9. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
10. PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
12. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
13. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
14. PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
15. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
16. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

PLUMBING:

1. DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.
2. PROVIDE WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING IN ACCORDANCE WITH PDI-WH 201.
3. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER, WATER PRESSURE REDUCING VALVE, CONTROL VALVE, SOLENOID VALVE AND PUMP. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
4. VALVES, EXPANSION FITTINGS/LOOPS, AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE. NON-STRUCTURAL MECHANICAL COMPONENTS:
5. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2015 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-10. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION. EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
6. 2020 IBC 1613.1 SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A.
7. 2020 IBC 1705.11 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
8. HANGERS AND SEISMIC BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.

SANITARY PLAN NOTES:

1. THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL AND MECHANICAL EQUIPMENT, AND STRUCTURAL SLAB AND FRAMING.
2. REFER TO PLUMBING SHEET P-601 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
3. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL DRAIN LINES FROM KITCHEN EQUIPMENT. ALL INDIRECT DRAIN LINES SHALL BE INSTALLED WITH APPROVED AIR GAPS.
4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF SODA SLEEVE LINES AND COORDINATION WITH OTHER DISCIPLINES.
5. ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE MOVEMENT. FINAL CONNECTIONS TO KITCHEN SINKS SHALL BE HARD PIPED.
6. PITCH ALL WASTE AND DRAIN LINES A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW, OR AS REQUIRED BY LOCAL CODE.
7. ALL OPENINGS IN DWV SYSTEMS RESULTING FROM INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
8. PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
9. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
10. NO COMPRESSION FITTINGS ALLOWED AT DUMPSINK.
11. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
12. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
13. 2.ALL GAS PIPING EXPOSED TO ELEMENTS ON ROOF SHALL BE PAINTED YELLOW.
14. VERIFY ALL EXISTING CONDITIONS PRIOR OR COMMENCEMENT OF WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
15. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB PENETRATION DIMENSIONS.

PLUMBING SHEET INDEX

P-001	PLUMBING LEGEND AND GENERAL NOTES
P-101	SANITARY WASTE AND VENT PLAN
P-111	DOMESTIC WATER PLAN
P-121	GAS PLAN
P-501	PLUMBING DETAILS
P-502	RISER DIAGRAMS
P-601	PLUMBING SCHEDULES

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

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Digitally signed by Stacy T Henson
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460 NW CHIPMAN RD
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P-001
PLUMBING LEGEND AND GENERAL NOTES

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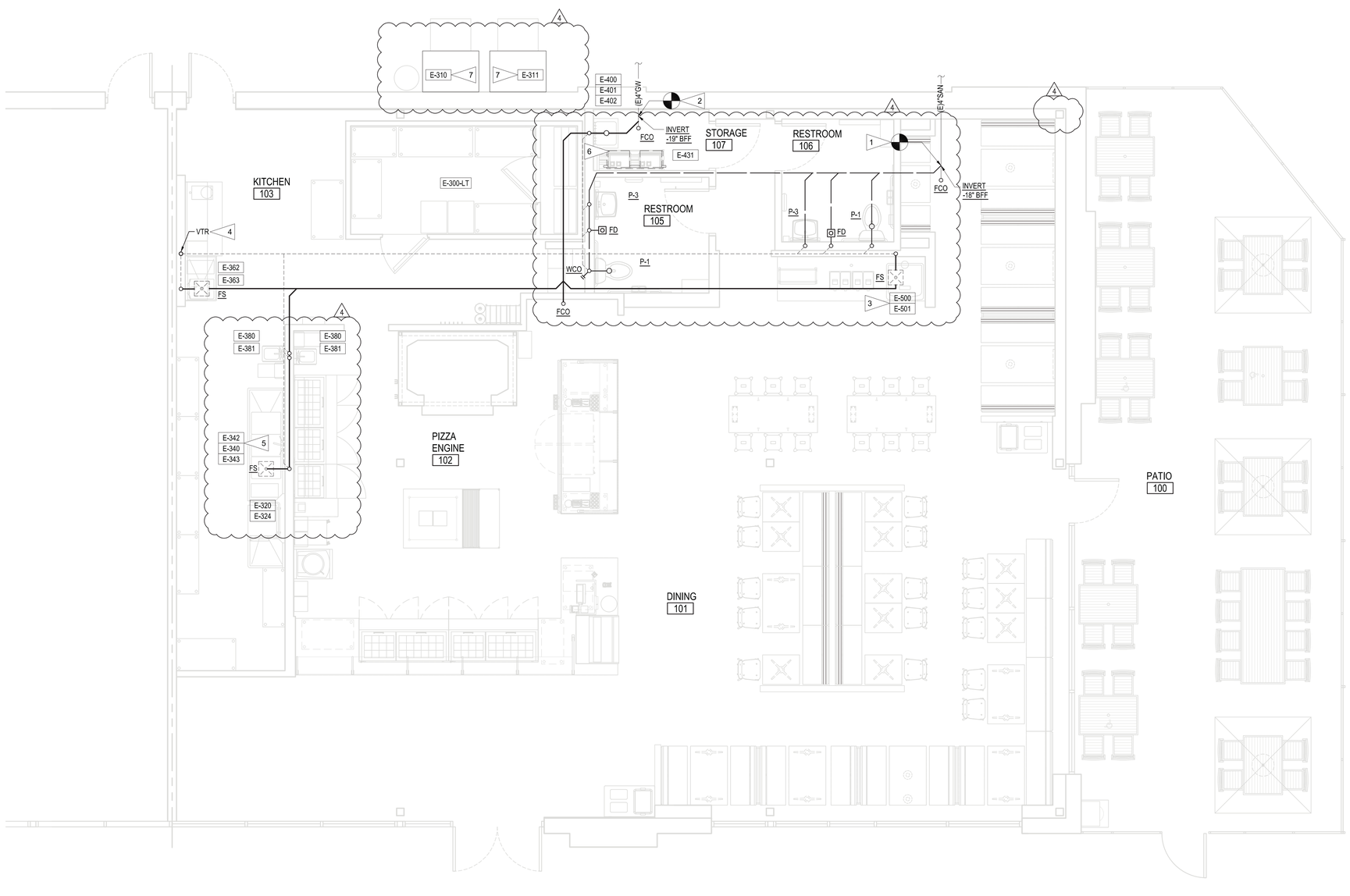

4 # KEYED NOTES

1. FIELD LOCATE AND CONNECT TO EXISTING 4" SANITARY LINE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT PRIOR TO BID & CONSTRUCTION.
2. FIELD LOCATE AND CONNECT TO EXISTING 4" GREASE LINE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT PRIOR TO BID & CONSTRUCTION.
3. PROVIDE INDIRECT DRAIN FROM ICE BIN TO FLOOR SINK.
4. PROVIDE NEW 3" VENT THRU ROOF OR CONNECT TO EXISTING VTR. CONTRACTOR TO VERIFY EXACT LOCATION & SIZE OF EXISTING VENT LINES PRIOR TO BID & CONSTRUCTION.
5. INSTALL DRAIN PIPING TIGHT TO UNDERSIDE OF SINK AND PROVIDE ADEQUATE PIPING AND FITTINGS SUPPORT AND/OR BRACING.
6. PROVIDE NEW GAS INSTANTANEOUS WATER HEATERS. ROUTE T&P DRAIN LINES FROM WATER HEATERS TO MOP SINK WITH AIR GAP.
7. INSTALL HARD PIPE FOR WALK IN REFRIGERATOR AND FREEZER CONDENSERS. ROUTE TO HUB DRAIN.

SANITARY WASTE AND VENT PLAN

NORTH

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

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P-101
SANITARY WASTE AND VENT PLAN

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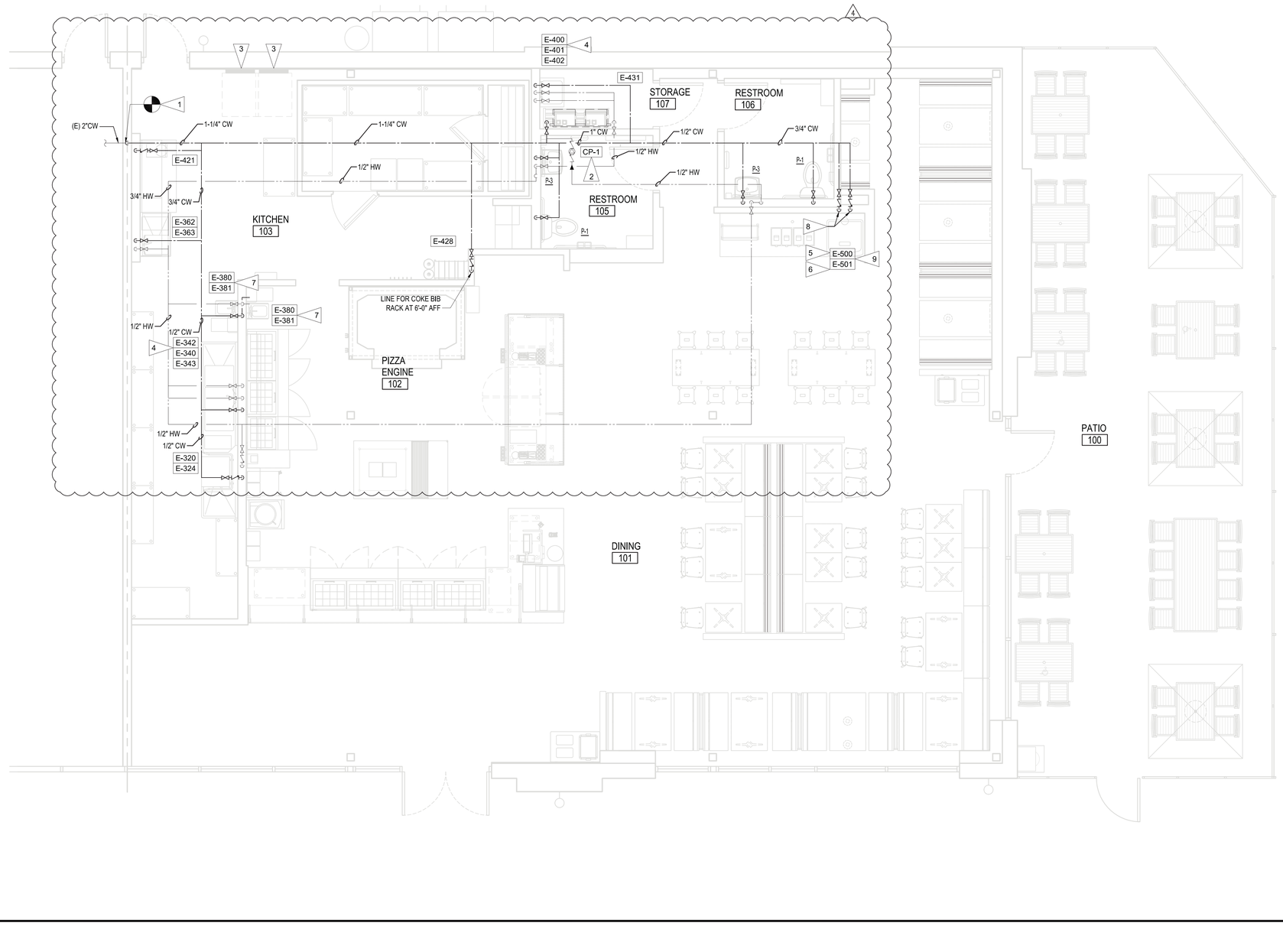

KEYED NOTES

1. FIELD LOCATE AND TIE INTO EXISTING WATER STUB PROVIDED BY LANDLORD WITH A 2" WATER LINE. GC TO PROVIDE AND COORDINATE FINAL LOCATION OF GATE VALVE, WATER SUBMETER, AND REMOTE READER WITH LANDLORD AND TENANT.
2. PROVIDE INLINE HOT WATER RECIRCULATION PUMP WITH CHECK VALVES ON BOTH SIDES OF PUMP.
3. NO NEW PIPING SHALL BE INSTALLED ABOVE THE PROPOSED LOCATION OF INTERIOR ELECTRICAL PANEL(S).
4. PROVIDE ADDITIONAL 1/2" HW SUPPLY WITH SUPPLY STOP FOR FUTURE VENDOR CONNECTION.
5. WATER SUPPLY FOR SODA AND ICE MACHINES TO BE LOCATED BELOW COUNTER.
6. PROVIDE REDUCED PRESSURE ZONE ASSEMBLY AT SODA MACHINE.
7. ROUTE 1/2" HW & CW TO HAND WASHING FIXTURE. INSTALL SUPPLIES COMPLETE WITH HOT WATER MIXING VALVE.
8. PROVIDE 1/2" WATER SUPPLY WITH BFP-2. REFER TO BACKFLOW DEVICE SCHEDULE ON SHEET P-601 FOR MORE INFORMATION.
9. PROVIDE PENTAIR EVERPURE WATER FILTRATION TO ICE-O-MATIC ICE MACHINE.

DOMESTIC WATER PLAN

NORTH

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

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P-111
DOMESTIC WATER PLAN

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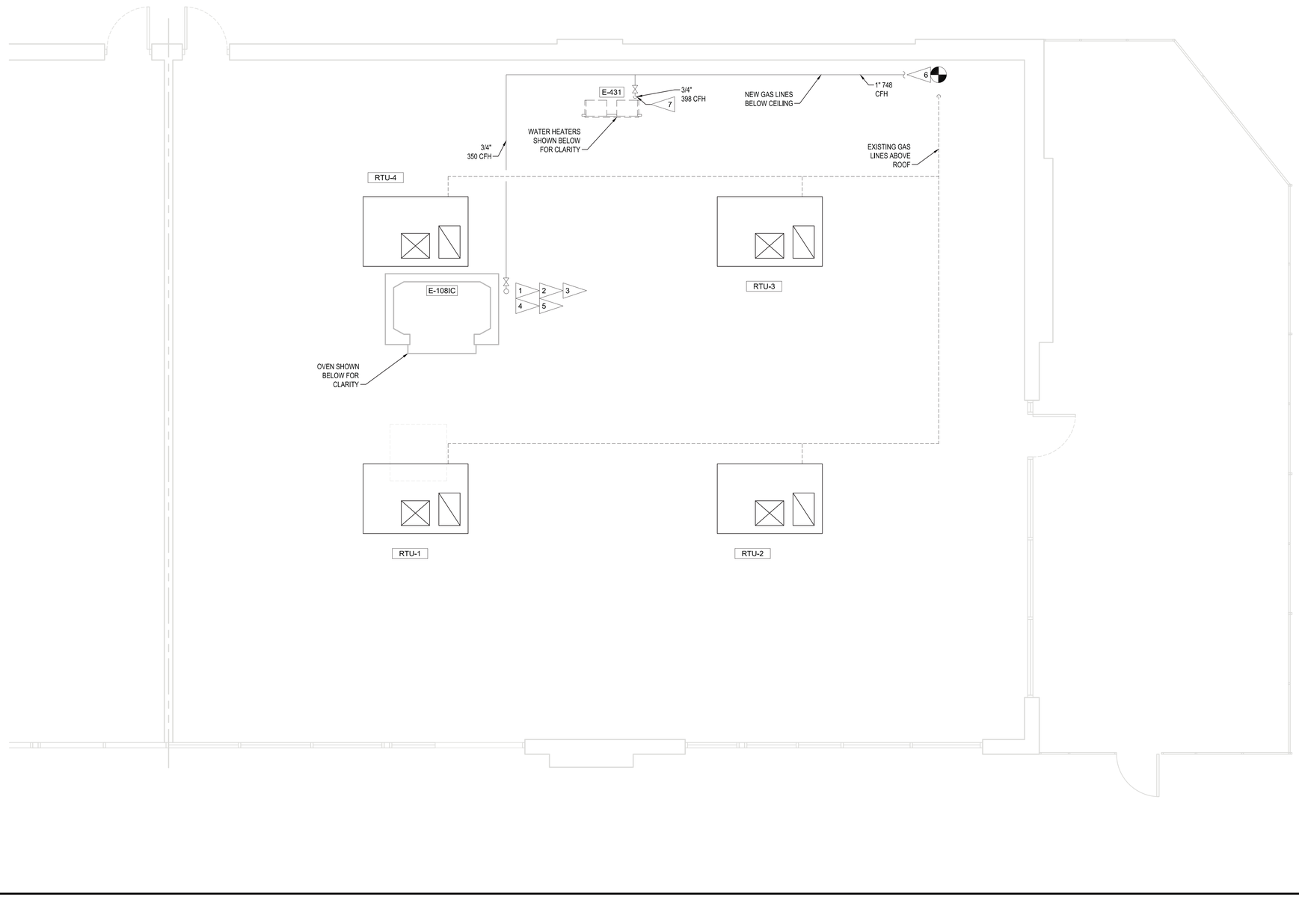
KEYED NOTES

1. 3/4" GAS TO PIZZA OVEN (350 MBH).
2. ROUTE GAS LINES IN OVEN ENCLOSURE TO OVEN GAS CONNECTION.
3. OVEN GAS PILOT LIGHT SWITCH IS PRE-WIRED, INCLUDED WITH THE OVEN AND LOCATED ON THE OVEN FACE.
4. INSTALL MECHANICAL SHUT OFF VALVE BY FIRE SUPPRESSION CONTRACTOR IN VERTICAL GAS SUPPLY TO PIZZA OVEN.
5. GAS SOLENOID SHUTOFF VALVE AS PART OF ANSUL SYSTEM.
6. PROVIDE AND CONNECT NEW GAS LINES TO EXISTING GAS LINE. PROVIDE NEW BRANCH TO NEW OVEN AND WATER HEATERS. CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE AND LINE SIZE AND ENSURE ADEQUATE GAS LOAD PRIOR TO BID AND CONSTRUCTION.
7. 3/4" GAS TO WATER HEATER BELOW.



GAS PLAN

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

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P-121
GAS PLAN

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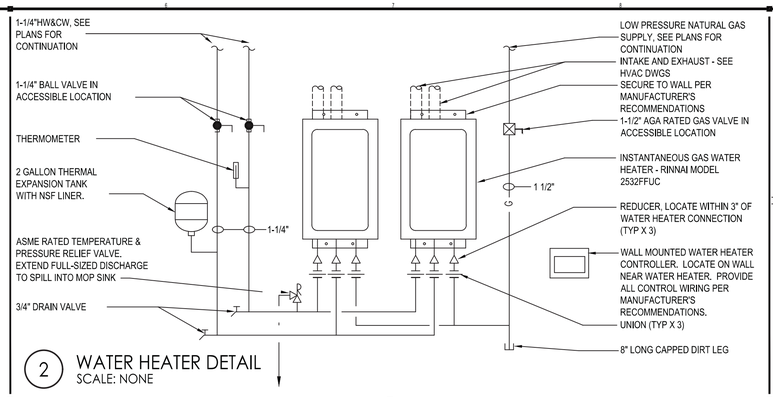
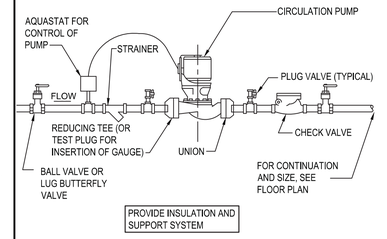
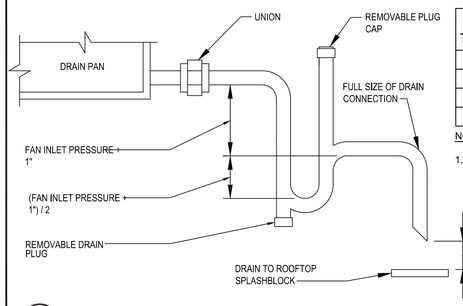


2 WATER HEATER DETAIL
SCALE: NONE



1 RECIRCULATION PUMP DETAIL
SCALE: NONE

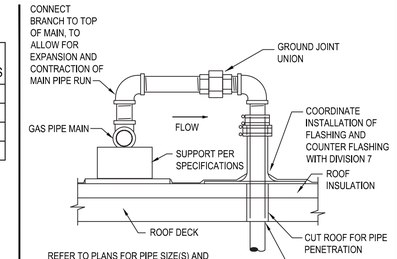


EQUIPMENT CAPACITY IN TONS OF REFRIGERATION	MINIMUM CONDENSATE PIPE DIAMETER IN INCHES
0-20 TONS	1"
21-40 TONS	1 1/4"
41-125 TONS	1 1/2"
125-250 TONS	2"

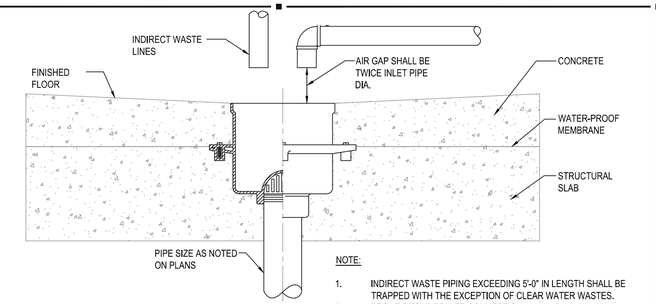
NOTES:

1. THIS CHART CAPACITY ASSUMES 1/8" PER FOOT SLOPE WITH THE PIPE RUNNING 3/4 FULL OF LIQUID. CONDENSATE DRAIN SIZING FOR OTHER SLOPES OR CONDITIONS SHALL BE APPROVED BY THE AHJ.

4 CONDENSATE DRAIN DETAIL
SCALE: NONE



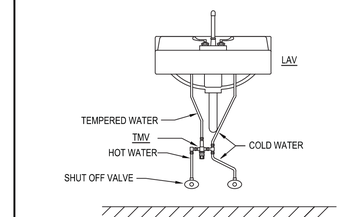
3 GAS PIPE ROOF PENETRATION DETAIL
SCALE: NONE



NOTE:

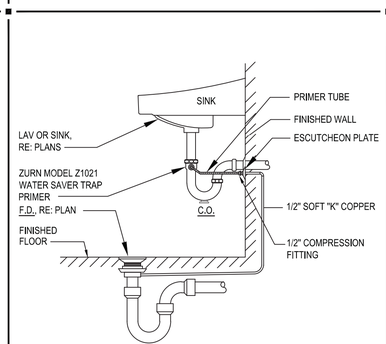
1. INDIRECT WASTE PIPING EXCEEDING 5'-0" IN LENGTH SHALL BE TRAPPED WITH THE EXCEPTION OF CLEAR WATER WASTES.
2. PROVIDE TRAP PRIMER CONNECTION.
3. CONFIRM WITH AHJ THE REQUIRED ELEVATION OF FLOOR SINK RIM. IF AHJ HAS NO REQUIREMENT, INSTALL FLUSH WITH FINISHED FLOOR.

6 FLOOR SINK DETAIL
SCALE: NONE

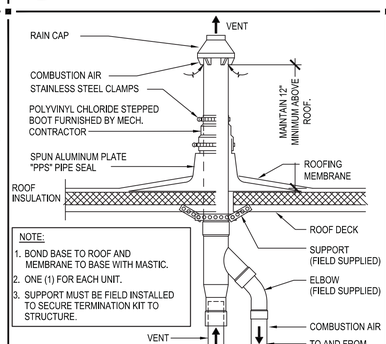


NOTE: SET TEMPERED WATER TEMPERATURE TO 110°F MAX.

5 THERMAL MIXING VALVE DETAIL
SCALE: NONE



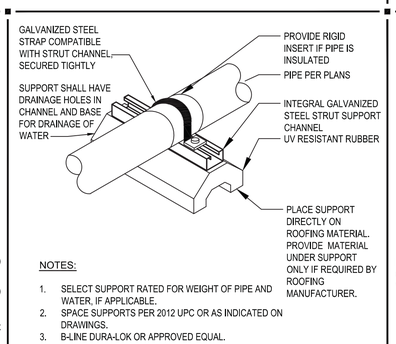
10 TRAP PRIMER - FLOOR DRAIN DETAIL
SCALE: NONE



NOTE:

1. BOND BASE TO ROOF AND MEMBRANE TO BASE WITH MASTIC.
2. ONE (1) FOR EACH UNIT.
3. SUPPORT MUST BE FIELD INSTALLED TO SECURE TERMINATION KIT TO STRUCTURE.

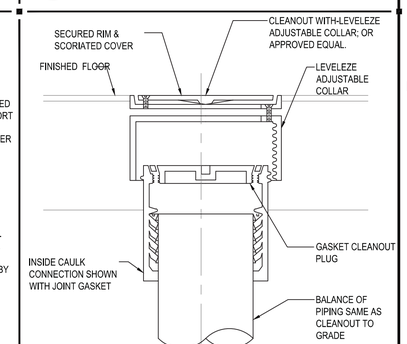
9 CONCENTRIC VENT DETAIL
SCALE: NONE



NOTES:

1. SELECT SUPPORT RATED FOR WEIGHT OF PIPE AND WATER, IF APPLICABLE.
2. SPACE SUPPORTS PER 2012 UPC OR AS INDICATED ON DRAWINGS.
3. B-LINE DURA-LOK OR APPROVED EQUAL.

8 ROOF PIPE SUPPORT DETAIL
SCALE: NONE



7 FLOOR CLEANOUT DETAIL
SCALE: NONE

OWNER
MOD
2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
ENG COA #2005026904

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ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER
Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:56-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

P-501
PLUMBING DETAILS

CHECKED: DAK DRAWN: MP

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01/04/2022

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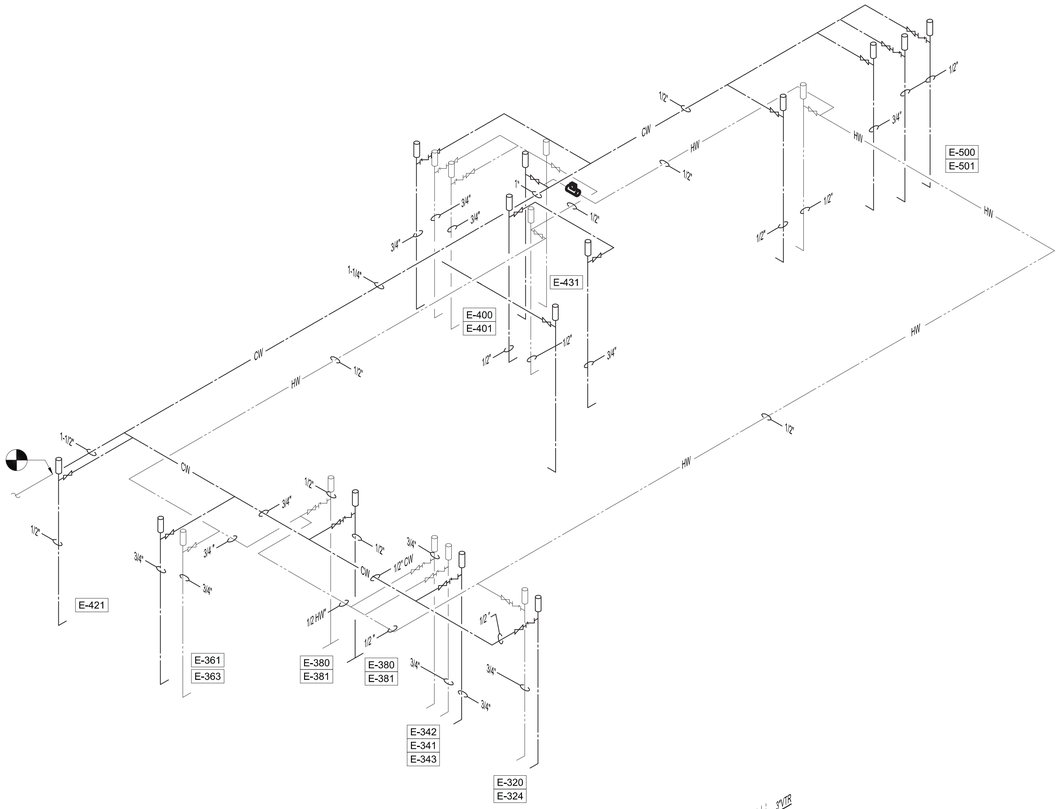
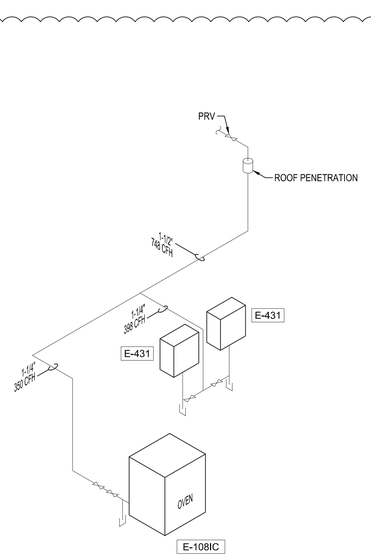
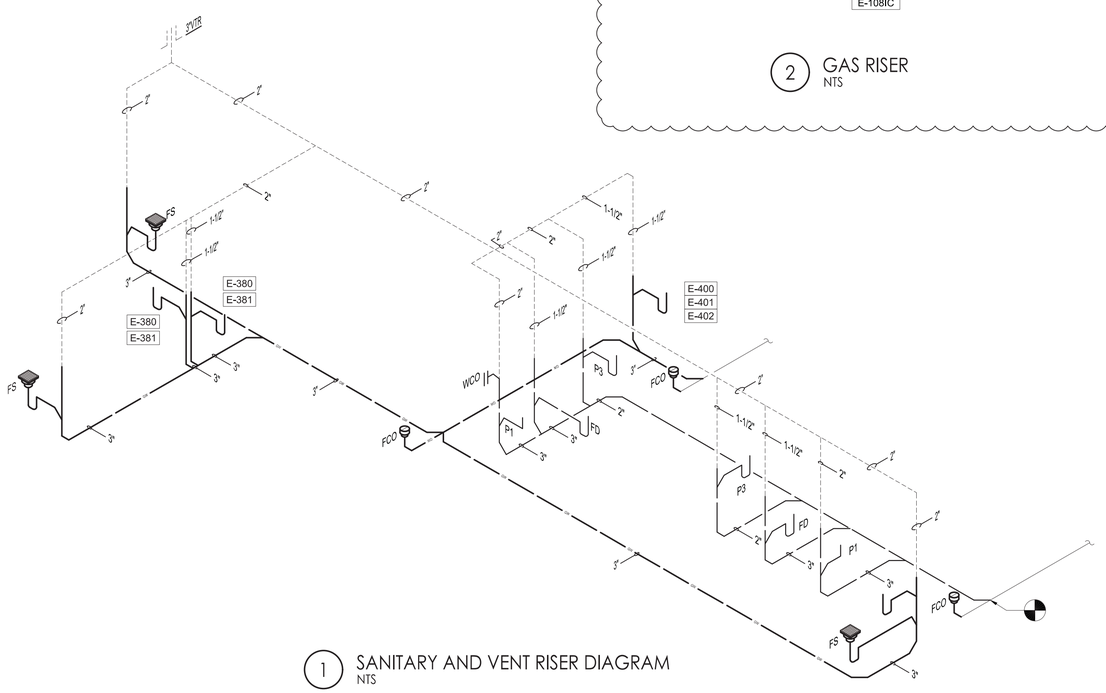
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022



3 DOMESTIC WATER RISER DIAGRAM
NTS



2 GAS RISER
NTS



1 SANITARY AND VENT RISER DIAGRAM
NTS

OWNER
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Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC
ARCH COA #2015008774
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PROJECT NO. 2021.0524

CONSULTANT

SEAL
STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
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Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:57 -05'00'

MOD LEES SUMMIT
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PERMIT SET 09.20.21

P-502
RISER DIAGRAMS

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Development Services Department
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WATER HEATER CALCULATION

EQUIPMENT	QTY.	GALLONS/HOUR/DAY	TOTAL
PREP. SINK	1	16.67	16.67
3-COMPARTMENT SINK	1	26.25	26.25
LAVATORY	2	5	10.00
MOP SINK	1	15	15.00
HAND SINK	2	5	10.00
		TOTAL	77.92
		TOTAL x 80% FOR SINGLE USE UTENSILS	62.34

NOTES:
DISHWASHER TO BE SUPPLIED WITH 6 GALLON BOOSTER TANK AT 14 KW, SEE SPECIFICATION ON THIS SHEET.

GAS EQUIPMENT SCHEDULE

EQUIPMENT	INPUT CAPACITY (MBH)
PIZZA OVEN	350
(E) RTU's x 4	720
(2) GAS WATER HEATER	398
TOTAL	1468

NOTES:
1. CONFIRM GAS PRESSURE AT EQUIPMENT IS BETWEEN 7" WATER COLUMN MINIMUM AND 10" WATER COLUMN MAXIMUM AT EQUIPMENT PRIOR TO INSTALLATION AND START UP OF EQUIPMENT, NOTIFY OWNER IF GAS PRESSURE IS OUTSIDE THIS REQUIREMENT.

2. SIZING BASED ON LESS THEN 2 PSI PRESSURE AT 6.0 IN. WC. PRESSURE DROP AND 50' TOTAL DEVELOP LENGTH.

DOMESTIC WATER SUPPLY FIXTURE UNITS

TYPE OF FIXTURE	TYPE OF SUPPLY CONTROL	FIXTURE DESIGNATION	QUANTITY	HW (EACH)	HW (TOTAL)	CW (EACH)	CW (TOTAL)	TOTAL (EACH)	TOTAL FSU'S
ADA WATER CLOSET	VALVE	P1	2	0.00	0.00	3	6.00	3	6.00
LAVATORY	FAUCET	P3	2	0.50	1.00	0.5	1.00	1	2.00
ICE MAKER	VALVE	E-501	1	0.00	0.00	0.5	0.50	0.5	0.50
SODA DISPENSER	VALVE	E-500	1	0.00	0.00	0.5	0.50	0.5	0.50
TEA BREWER	VALVE	E-421	1	0.00	0.00	0.5	0.50	0.5	0.50
HAND SINK	FAUCET	E-380	2	0.50	1.00	0.5	1.00	1	2.00
PREP SINK	FAUCET	E-361/ E-362	1	2.00	2.00	2	2.00	3	3.00
3 COMP. SINK	FAUCET	E-340 / E-341	1	2.00	2.00	2	2.00	3	3.00
MOP SINK	FAUCET	E-400	1	2.00	2.00	2	2.00	3	3.00
					HW		CW		TOTAL (HW&CW)
SERVICE TOTAL FSU'S					8.00		15.50		20.50
DISHWASHER									0.78
SERVICE TOTAL GPM									21.3

BACKFLOW DEVICE SCHEDULE

TAG	SERIES	SIZE	TYPE	USAGE	APPROVAL
BFP-1	009QT	2"	REDUCED PRESSURE BACKFLOW PREVENTER	DOMESTIC WATER CONNECTION	ASSE 1015, AWWA 1013
BFP-2	SD-3	3/8"	DUAL CHECK VALVE W/ ATMOSPHERIC VENT	CARBONATED BEVERAGE	ASSE 1022
BFP-3	9D	1/2"	BACKFLOW PREVENTER W/ ATMOSPHERIC VENT	TEA MAKER, COFFEE MACHINE, JUICE DISPENSER, ETC	ASSE 1012
BFP-4	007QTS	1/2"	DUAL CHECK VALVE	NON-CABONATED BEVERAGE, SOFT SERVE ICE CREAM, WATER FILTER, HUMIDIFIER, EYE WASH, ETC	ASSE 1015
BFP-5	8	3/4"	VACUUM BREAKER	WALL HYDRANT CONNECT VACUUM BREAKER	ASSE 1011
BFP-6	N9-CD	3/4"	DUAL CHECK VACUUM BREAKER	HOSE BIBB	ASSE 1052
BFP-7	008PCQT	1/2"	SPILL RESISTANT VACUUM BREAKER	SOAP DISPENSER, SPECIALTY SINK, CLEANING EQUIPMENT, DISHWASHER	ASSE 1056

NOTES:
1. BASED ON WATTS.
2. CONTRACTOR TO VERIFY EXACT REQUIREMENTS OF ALL REQUIRED BACKFLOW DEVICES AND FIXTURES WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BID.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FIXTURE MANUF.	FIXTURE MODEL NUMBER	FAUCET MANUF.	FAUCET MODEL NUMBER	CONN. TRAP	CONN. DIRECT WASTE	CONN. INDIRECT WASTE	CONN. VENT	CONN. CW	CONN. HW	ACCESSORIES / REMARKS
E-107	PIZZA OVEN	WOOD STONE	FD-9660-RFGLR-IR	-	-	-	-	-	-	-	-	GAS LOAD: 350 MBH.
E-300	WALK-IN COOLER/FREEZER	NORLAKE	CUSTOM	-	-	-	-	1"	-	-	-	ROUTE CONDENSATE DRAIN CONNECTION TO DISCHARGE INTO HUB DRAIN WITH AIR GAP.
E-310	CAPSULE PAK REFRIGERATION UNIT COOLER	NORLAKE	RCPB100JC-S-4-EV	-	-	-	-	-	-	-	-	INSTALLED ON TOP OF WALK-IN COOLER, REFER TO INSTALLATION MANUAL.
E-311	CAPSULE PAK REFRIGERATION UNIT FREEZER	NORLAKE	RCPF075JC-S-4-EV	-	-	-	-	-	-	-	-	INSTALLED ON TOP OF WALK-IN FREEZER, REFER TO INSTALLATION MANUAL.
E-320	DISHWASHER	ECOLAB	ES-2000HT	-	-	-	-	2"	1-1/2"	-	3/4"	WITH VAPOR VENT OPTION, 6 GALLON BOOSTER TANK @ 14KW, 37 RACKS PER HOUR. CONTRACTOR SHALL PROVIDE ROUGH-IN PRIOR TO INSTALLATION BY VENDOR WITH FINAL CONNECTIONS BY CONTRACTOR.
E-340 E-342	3-COMP SINK, FAUCET & SPRAYER	JOHN BOOS & CO	16-DDTS-90 3-COMP SOILED L/R	FISHER	PRERINSE SPGCT 8BSLH 16SS - MODEL 73135	-	-	2"	-	-	-	-
E-343	3-COMP SINK DISPENSER	SSDC	SINK RITE DOUBLE UNIT	-	-	-	-	-	-	-	3/4"	-
E-362 E-363	PREP SINK & FAUCET	FENIX SOL	18G-1C1620-D18 1 COMP SINK L/R	FISHER	3252	-	-	2"	1-1/2"	3/4"	3/4"	-
E-380 E-381	HAND SINK & FAUCET	FENIX SOL	HS-SEHS-17	FISHER	3526	1-1/2"	2"	-	1-1/2"	1/2"	1/2"	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS
E-400 E-401	MOP SINK & FAUCET	ELKAY FOOD SERVICE	FLR-3X	FISHER	8253	3"	3"	-	1-1/2"	3/4"	3/4"	16 GAUGE, 300 SERIES STAINLESS STEEL TUB WITH 18 GAUGE STAINLESS STEEL SKIRT. 16"X20"X12" DEEP, 3-1/2" DRAIN OPENING, STAINLESS STEEL FLAT GRID STRAINER. MOP SINK SUPPLIED AND INSTALLED BY GC.
E-402	MOP SINK DISPENSER	SSDC	MOP RITE 3	-	-	-	-	-	-	-	3/4"	-
E-416	WATER FILTRATION SYSTEM - 2A	KINETICO	208 SOFTENER SYSTEM	-	-	-	-	-	-	-	-	COORDINATE REQUIREMENTS WITH VENDOR
E-417	WATER FILTRATION SYSTEM - 2B	KINETICO	210 SOFTENER SYSTEM	-	-	-	-	-	-	-	-	COORDINATE REQUIREMENTS WITH VENDOR
E-418	WATER FILTRATION SYSTEM - 2C	KINETICO	BRINELESS SOFTENER SYSTEM	-	-	-	-	-	-	-	-	COORDINATE REQUIREMENTS WITH VENDOR
E-419	WATER FILTRATION SYSTEM - 3	KINETICO	RO SOFTENER SYSTEM	-	-	-	-	-	-	-	-	COORDINATE REQUIREMENTS WITH VENDOR
E-421	TEA BREWER & DISPENSER	BUNN	36700.0059 TB3Q, 34100.0000 TD0-4	-	-	-	-	-	-	1/2"	-	3 GALLON, STAINLESS STEEL, PROVIDE WITH TD0-4 HANDLED SISPENSE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
E-428	COKE BIB RACK	MCCANNS	IC 44239	-	-	-	-	3/4"	-	1/2"	-	-
E-500	SODA MACHINE	CORNELIUS	DF 200 PART #621053001	-	-	-	-	3/4"	-	1/2"	-	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS
E-501	ICE MACHINE	ICE - O - MATIC	GEM0956A	-	-	-	-	3/4"	-	1/2"	-	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL WATER FILTER MANIFOLD AND WATER FILTER FOR ICE MACHINE.
P-1	WATER CLOSET (ADA)	KOHLER	K-3493	-	-	INTEGRAL	4"	-	2"	3/4"	-	VITREOUS CHINA, TWO-PIECE, FLOOR MOUNT, TANK TYPE, 17" HIGH ELONGATED BOWL, PRESSURE-ASSIST, CLOSE COUPLED FLUSHOMETER TANK, 2 BOLT SYSTEM, 1.6 GPF, POLISHED CHROME TRIP LEVER INSTALLED ON WIDE SIDE OF STALL, ADA.
P-2	URINAL	KOHLER	DEXTER 5016	ZURN	ZER6003AV-EWS-CPM	INTEGRAL	2"	-	1-1/2"	3/4"	-	VITREOUS CHINA WALL HUNG, REAR OUTLET, TOP SPUD, 0.5 GPF FLOW RATE, LOW CONSUMPTION, ADA.
P-3	LAVATORY (ADA) & FAUCET	KOHLER	GREENWICH 2032	CHICAGE	2200-4ABC9	2"	2"	-	1-1/2"	1/2"	1/2"	VITREOUS CHINA WALL HUNG, ADA, FRONT OVERFLOW, D-SHAPED BOWL, CONCEALED ARM SUPPORTS, 4" O.C. FAUCET HOLES, LEVER HANDLE FAUCET, 0.5 GPM FLOW RATE, USE McGUIRE 165 WHEEL HANDLE.
FCO	FLOOR CLEANOUT	WADE	600-STD	-	-	-	-	-	-	-	-	GAS-TIGHT AND WATER-TIGHT TAPERED THREADED PLUG AND ROUND POLISHED NICKEL BRONZE SCORIATED ADJUSTABLE TOP.
FD	FLOOR DRAIN	ZURN	Z415-SZ	-	-	3"	3"	-	1-1/2"	-	-	Z1000 DEEP SEAL TRAP
FS	FLOOR SINK	ZURN	Z1901-2	-	-	3"	3"	-	2"	-	-	12"X12", 8" SUMP DEPTH, LIGHT DUTY HALF GRATE, CAST IRON BODY, DOME STRAINER, NO HUB, ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP.
HB	HOSE BIBB	WOODFORD	24C	-	-	-	-	-	-	3/4"	-	ANTI-SIPHON VACUUM BREAKER BRASS EXTERIOR FINISH, WHEELE HANDLE WITH OPTIONAL LOOSE KEY TEE, TEFLON IMPREGNATED PACKING AND STANDARD 'O' RING, 125 PSI MAX. PRESSURE.
HD	HUB DRAIN	ZURN	Z-211-S	-	-	2"	2"	-	1-1/2"	-	-	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET HUB DRAIN.
TMV	THERMOSTATIC MIXING VALVE	SYMMONS	MAXLINE 5-225-CK-MS 2GPM @ 10PSI	-	-	-	-	-	-	1/2"	1/2"	SCREWDRIVER ADJUSTMENT TO ADJUST TEMP. MAX. 110° F, STEM THERMOMETER ON INLET, VOLUME CONTROL, SHUT OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, ASSE 1070 RATED.
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	P-2	-	-	-	-	-	-	1/2"	-	COPPER BODY, ADJUSTABLE WITH 1/2" COPPER TYPE "L" TO FLOOR DRAIN.
WCO	WALL CLEANOUT	WADE	8480-C	-	-	-	-	-	-	-	-	CLEANOUT TEE W/ WALL ACCESS COVER, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT BRONZE PLUG AND STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.

NOTES:
1. NOT ALL ITEMS IN SCHEDULE ARE USED. REFER TO PLUMBING PLANS FOR QUANTITIES AND LOCATIONS

GREASE INTERCEPTOR CALCULATIONS

SYMBOL	FIXTURE TYPE	COMPARTMENT QUANTITY	L	W	D	VOLUME (CU. IN.)	VOLUME (GALLONS)	% FULL	DRAIN TIME (MINUTES)	DRAINAGE LOAD (GALLONS)
E-400	MOP SINK	1	20	28	12	6720	29.1	0.75	2	10.9
E-361 / E-362	PREP SINK	1	17	24	14	5712	24.7	0.75	2	9.3
E-340 / E-341	3-COMP SINK	3	18	24	14	18144	78.5	0.75	2	29.5
E-380	HAND SINK	2	9	12	6	1296	5.6	0.75	2	2.1
*TOTAL FIXTURE FLOW RATE (GPM):										49.6

SYMBOL	FIXTURE TYPE	QUANTITY	FLOW CAPACITY (GPM)	FLOW RATE (GPM)
FD	FLOOR DRAIN	2	2	4
FS	FLOOR SINK	4	2	8
E-320	DISHWASHER	1	1	1.0
			MAXIMUM FLOW RATE (GPM)	63

DRAINAGE FIXTURE UNITS SCHEDULE

TYPE OF FIXTURE	FIXTURE DESIGNATION	QUANTITY	FIXTURE UNIT (EACH)	MINIMUM FIXTURE TRAP AND DRAIN SZE	TOTAL FIXTURE UNITS
ADA WATER CLOSET	P1	2	4	4"	8.0
LAVATORY	P3	2	1	1-1/4"	2.0
HAND SINK	E-380	2	2	1-1/2"	4.0
PREP SINK	E-361 / E-362	1	2	1-1/2"	2.0
3 COMP. SINK	E-340 / E-341	1	2	1-1/2"	2.0
MOP SINK	E-400	1	2	1-1/2"	2.0
FLOOR DRAIN	FD	4	3	2"	12.0
FLOOR SINK	FS	4	6	4"	24.0
TOTAL DRAINAGE FIXTURE UNITS					56

GAS WATER HEATER SCHEDULE

TAG	QTY.	MANUFACTURE/ /MODEL	FLOW RATE AT 100°F (GPM)	TEMP SETTING (°F)	CAPACITY	CW INLET (IN)	HW OUTLET (IN)	ELECTRICAL FLA (AMPS)	ELECTRICAL VOLTAGE/PHASE (V/Ø)	DIMENSIONS L" x W" x H"	WEIGHT (LBS)	NOTES
E-431	2	NORITIZ / NCC199CDV	3.9	120	0.65	3/4	3/4	4	120V/1Ø	18.5x13x27	81	1, 2

NOTES:
1. PROVIDE WITH HEAT TRAPS ON SUPPLY AND DISCHARGE LINES.
2. PROVIDE WATER HEATER MOUNTING RACK MODEL#CR60-WH-2-(NG OR LP). MOUNT WATER HEATER ON WALL AS INDICATED ON ARCHITECTURAL DRAWINGS.

EXPANSION TANK SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER/MODEL	VOLUME (GALLONS)	SYSTEM CONNECTION (IN)
ET-1	DOMESTIC HOT WATER	KITCHEN	AMTROL / THERM-X-TROL ST-12V	4.4	1/2

RECIRCULATION PUMP SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER/MODEL	ELECTRICAL GPM	ELECTRICAL FTHD	ELECTRICAL FLA (AMPS)	ELECTRICAL VOLTAGE/PHASE	NOTES
CP-1	DOMESTIC HOT WATER	KITCHEN	ARMSTRONG ASTRO 220SSU075S-TA	-	-	1.75	120/1	1, 2

NOTES:
1. PROVIDE WITH PROGRAMMABLE TIMER CONTROLS FOR PROGRAMMED SHUTDOWN.
2. PROVIDE THREADED QUICK DISCONNECTS (UNIONS) AND SHUT OFF VALVES ON BOTH THE INLET AND OUTLET OF THE RECIRCULATING PUMP FOR QUICK ISOLATION AND REMOVAL SERVICING / MAINTENANCE.

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STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:57:58-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

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1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

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P-601
PLUMBING SCHEDULES

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SYMBOL LEGEND

POWER RECEPTACLE OUTLETS

- DUPLEX
- DOUBLE DUPLEX
- SINGLE SPECIAL PURPOSE
- DUPLEX GFCI
- DOUBLE DUPLEX GFCI RECEPTACLE
- DUPLEX OVER COUNTER (VERIFY HEIGHT)
- DUPLEX GFCI OVER COUNTER (VERIFY HEIGHT)
- CEILING-MOUNTED DUPLEX
- JUNCTION BOX WITH BLANK COVER
- FLOOR MOUNTED RECEPTACLE

PANELBOARDS, SWITCHES & EQUIPMENT

- CIRCUIT BREAKER PANEL
- SWITCHBOARD OR MOTOR CONTROL CENTER
- TERMINAL CABINET
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- FAN CONNECTION
- EQUIPMENT CONNECTION
- MOTOR CONNECTION

COMMUNICATIONS SYMBOLS

- 3 — DATA/COMM OUTLET (NUMBER INDICATES QUANTITY OF JACKS).
- TTB — TELEPHONE TERMINAL BOARD - 3/4" FIRE RESISTANT PLYWOOD

LIGHTING OUTLETS

- RECESSED DOWNLIGHT
- RECESSED FLUORESCENT
- PENDANT MOUNTED FIXTURE OR CHANDELIER
- TRACK LIGHT (LENGTH AS SHOWN ON PLAN)
- WALL MOUNTED VAPOR JAR LAMP
- SURFACE CEILING MOUNTED MONOPOINT FIXTURE. ARROW INDICATES DIRECTION TO AIM HEAD
- COMBO EXIT SIGN / EGRESS FIXTURE.
- DUAL HEAD EMERGENCY EGRESS FIXTURE
- EMERGENCY EGRESS FIXTURE

SWITCH OUTLETS & CONTROL DEVICES

S	SINGLE-POLE	S_P	PILOT-LIGHTED
S_3	THREE-WAY	S_K	KEY-OPERATED
S_4	FOUR-WAY	S_m	MECHANICAL EQUIP.
S_D	DIMMER		PUSHBUTTON

- S_{OS} — INTEGRAL SENSOR ('VS' = VACANCY/ 'OS' = OCCUPANCY SENSOR)
- S_{LV} # — LOW VOLTAGE OVERRIDE - "#" REPRESENTS SWITCH NUMBER ON TWO-BUTTON SWITCH.
- (XC)# — DAYLIGHT SENSOR - LETTER INDICATES LIGHTING ZONE CONTROLLED BY SENSOR.
- (XO)# — CEILING MOUNTED OCCUPANCY SENSOR - LETTER INDICATES LIGHTING ZONE CONTROLLED BY SENSOR.

CIRCUITING

- WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED IN FLOOR OR UNDERGROUND
- NUMBER OF CONDUCTORS
- BRANCH CIRCUIT HOMERUN
- BRANCH CIRCUIT CONTINUES ELSEWHERE (NOTED)
- GROUNDING ELECTRODE
- LV — LOW VOLTAGE
- ISOLATED GROUND WIRE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	M.C.	MECHANICAL CONTRACTOR
AHU	AUTHORITY HAVING JURISDICTION	MSC	MULTI SCENE CONTROLLER
AL	ALUMINUM	MW	MICROWAVE
ATS	AUTOMATIC TRANSFER SWITCH	N3R	NEMA 3R (WP)
		NIC	NOT IN CONTRACT
BOH	BACK OF HOUSE	NL	NIGHT LIGHT
CKT	CIRCUIT	O.C.	ON CENTER
CLG	CEILING	O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
C.O.	CONDUIT ONLY		
CLP	CURRENT LIMITING PANEL	PNL	PANEL
		POS	POINT OF SALE
CU	COPPER	PP	POWER POLE
DF	DRINKING FOUNTAIN	PUD	PUBLIC UTILITY DISTRICT
DW	DISHWASHER		
E.C.	ELECTRICAL CONTRACTOR	PV	PHOTOVOLTAIC
		REC	RECEPTACLES
EXTG	EXISTING	REF	REFRIGERATOR
(E)	EXTG. TO REMAIN	(R)	RELOCATED EXISTING
FOH	FRONT OF HOUSE	RQMTS	REQUIREMENTS
FLR	FLOOR	TBD	TO BE DETERMINED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GND	GROUND	WC	WATER COOLER
HWT	HOT WATER HEATER	WP	WEATHER PROOF
LCP	LIGHTING CONTROL PANEL	U.O.N.	UNLESS OTHERWISE NOTED
LTS	LIGHTS	XFMR	TRANSFORMER

ELECTRICAL SHEET INDEX

E-001	ELECTRICAL LEGEND AND ABBREVIATIONS
E-111	ELECTRICAL LIGHTING PLAN
E-112	POWER AND LOW VOLTAGE PLAN
E-501	LOW VOLTAGE DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	RISER DIAGRAM AND PANEL SCHEDULES
SP-913	ELECTRICAL SPECIFICATION

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E-001

ELECTRICAL LEGENDS AND ABBREVIATIONS

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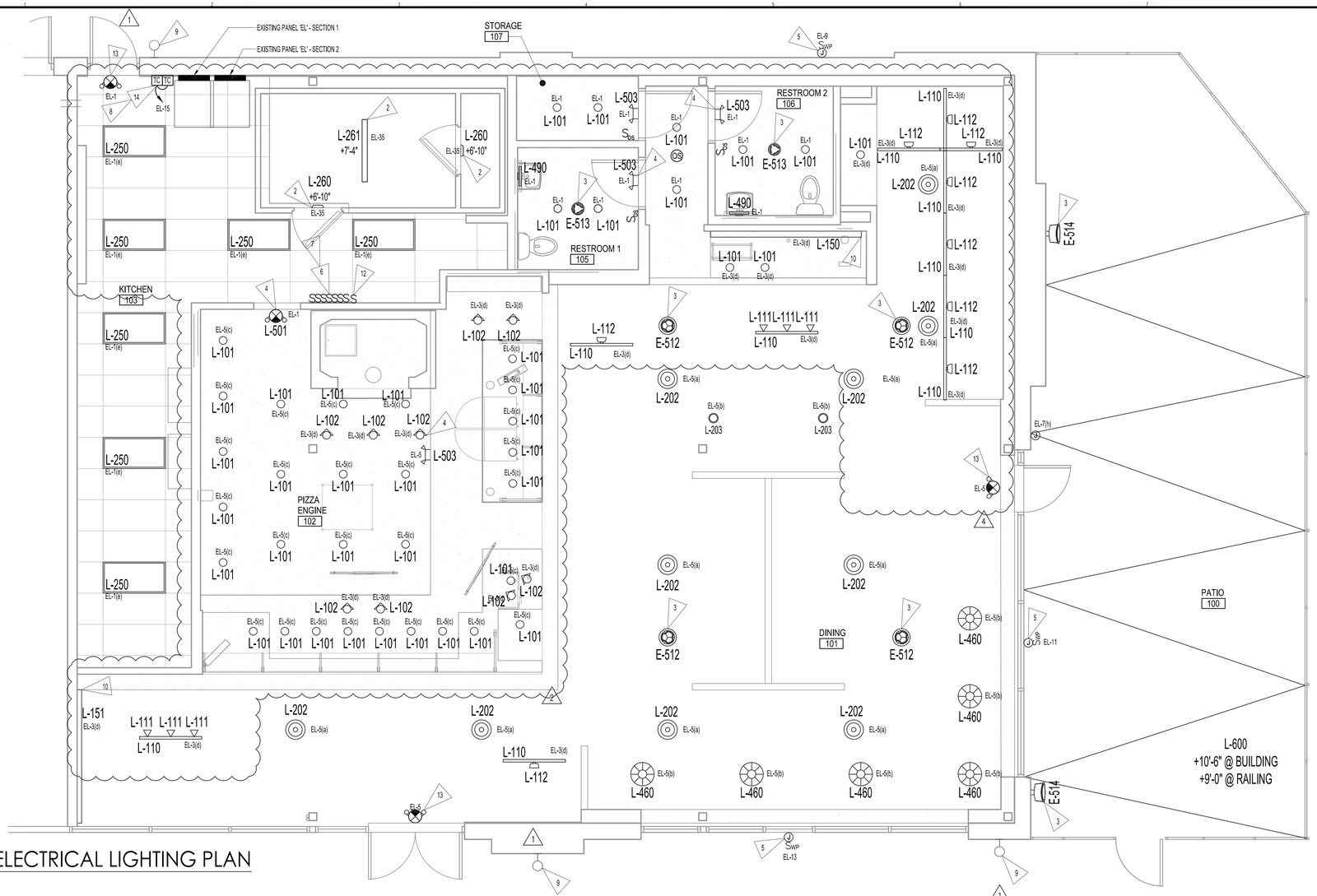
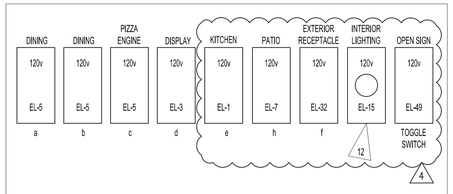


1 ELECTRICAL LIGHTING PLAN

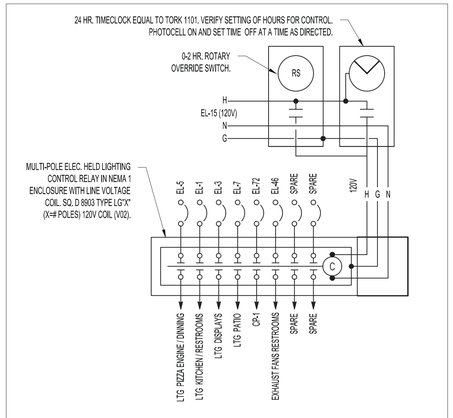


NOTES:

1. VERIFY EXACT CONFIGURATION REQUIRED WITH SPACE AVAILABLE.
2. PROVIDE LABELS AS INDICATED.
3. SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48" AFF.
4. MULTIPLE SWITCHES IN A SINGLE LOCATION SHALL BE GANGED TOGETHER IN SINGLE BOX WITH A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
5. SWITCHES TO HAVE LED INDICATORS.

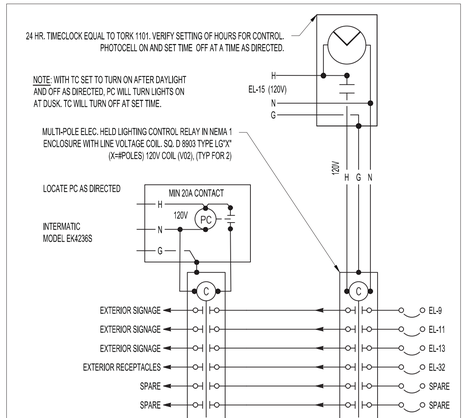
2 SWITCH BANK DETAIL

NO SCALE



3 INT. LIGHTING CONTROL DIAGRAM

NO SCALE



4 EXT. LIGHTING CONTROL DIAGRAM

NO SCALE

GENERAL NOTES

1. CIRCUIT NUMBERS SHOWN AS X(n) WHERE X IS THE CIRCUIT NUMBER AND n IS THE SWITCHED LEG.
2. ROUTE LIGHTING CIRCUITS THROUGH TRACK LIMITERS FOR TRACK LIGHTS UPSTREAM OF SWITCH BANK. SEE DETAIL# 2,3&4 ON THIS SHEET.
3. SEE ARCHITECTURAL REFLECTED CEILING PLAN, SHEET A-121, FOR FIXTURE ELEVATIONS.
4. REFER TO E-601 FOR LIGHT FIXTURE SCHEDULE.

FLAG NOTES

1. NOT USED.
2. ALL LIGHTING IS PRE-INSTALLED AND INTEGRATED TO WALK-IN COOLER/FREEZER. ELECTRICAL CONTRACTOR SHALL PROVIDE LAMPS FOR INTEGRATED FIXTURES. COORDINATE WITH WALK-IN COOLER/FREEZER MANUFACTURER PRIOR TO BID.
3. AUDIO SPEAKERS SHOWN FOR REFERENCE ONLY.
4. EXIT/EMERGENCY AND NL FIXTURES TO BE CONNECTED AHEAD OF SWITCHING AND LIGHTING CONTROL. PROVIDE UNITS WITH BATTERY CARRYING A MINIMUM CAPACITY FOR 90 MINUTES CONTINUOUS OPERATION WITH TOTAL LOAD FUNCTIONING.
5. PROVIDE JUNCTION BOX IN ACCESSIBLE CEILING OR 18" ABOVE TOP OF STOREFRONT FOR EXTERIOR SIGNAGE. COORDINATE EXACT LOCATION WITH SIGN INSTALLER PRIOR TO ROUGH-IN. ROUTE CIRCUIT THROUGH TIMER SWITCH FOR AUTOMATIC CONTROL. SEE FLAG NOTE 8 ON THIS SHEET.
6. LIGHTING CONTROLS TO BE LOCATED IN KITCHEN. NO DEVICES TO BE LOCATED ON FOH SIDE OF DOOR.
7. SEE (IN-LINE) SWITCH BANK DETAIL ON THIS SHEET, FOR SWITCHING ARRANGEMENT AND DETAIL#3 LIGHTING CONTROL DIAGRAM ON THIS SHEET FOR AUTOMATIC CONTROL.
8. CONTACTORS SWITCH FOR EXTERIOR SIGNAGE. PROVIDE LABEL STATING "EXTERIOR SIGNS". CONFIRM AND COMPLY WITH ALL LANDLORD AND/OR LOCAL JURISDICTIONAL REQUIREMENTS AND REGULATIONS PRIOR TO PROGRAMMING. SEE DETAIL 4 ON THIS SHEET.
9. EXISTING LIGHTING FIXTURE FED FROM LL PANEL TO REMAIN.
10. MOUNT DRIVER FOR LED COVE LIGHT AT END OF COVE IN ACCESS OF COVE TO MAINTAIN ACCESSIBILITY FOR SERVICING.
11. NOT USED.
12. TIME SWITCH WITH OVERRIDE FOR CLEANING AND CONTROL OF INTERIOR LIGHTING. SEE DETAIL 3 ON THIS SHEET. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALL.
13. EXISTING EXIT/EMERGENCY FIXTURE TO BE CONNECTED TO NEW CIRCUIT SHOWN ON FLOOR PLAN, AHEAD OF SWITCHING AND LIGHTING CONTROL.
14. PROVIDE TIMECLOCKS. REFER TO DETAILS 3 AND 4 ON E-111 FOR ADDITIONAL INFORMATION.

NORTH

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

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E-111

ELECTRICAL LIGHTING PLAN

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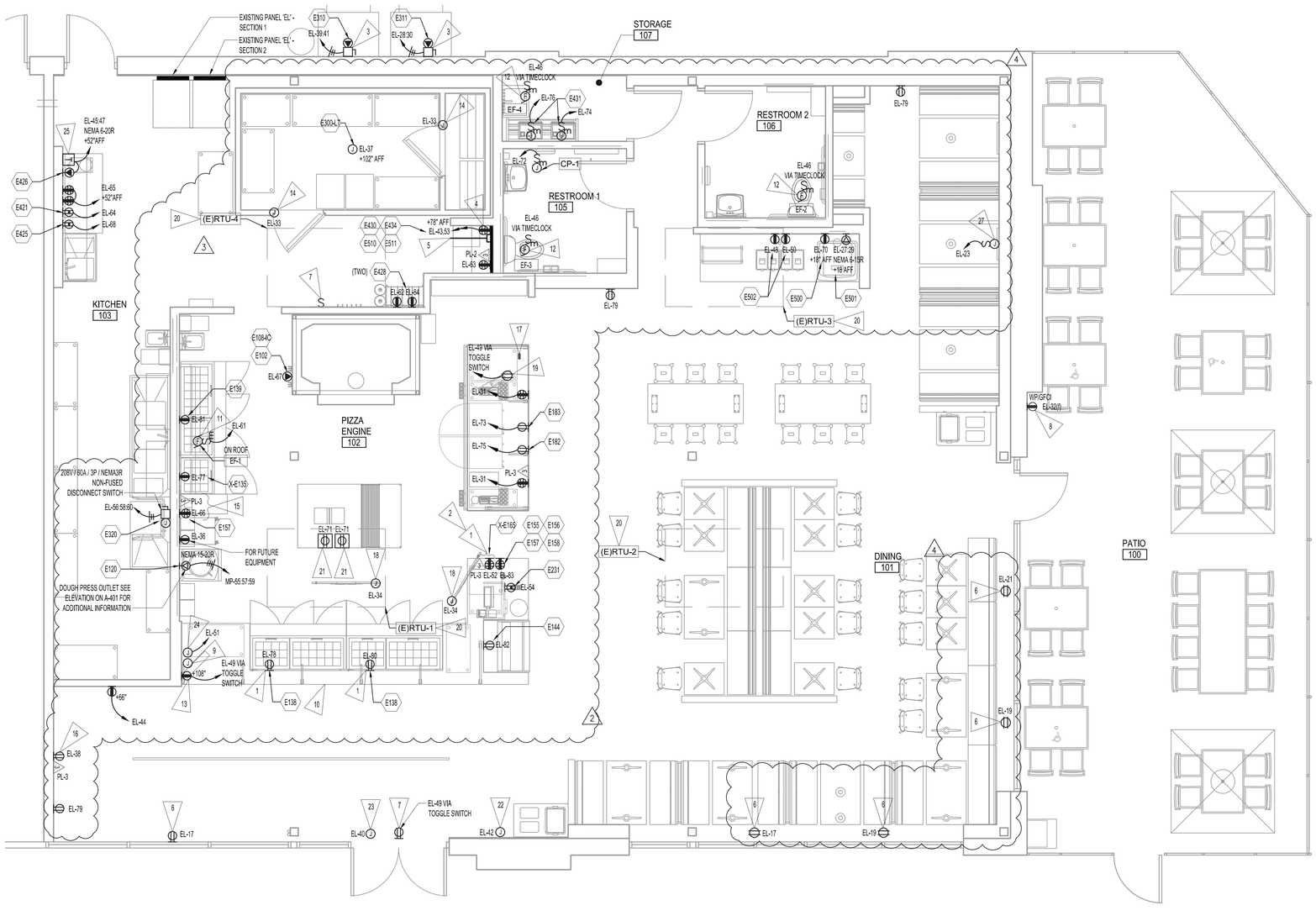

1 POWER AND LOW VOLTAGE PLAN

GENERAL NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E-601, FOR ELECTRICAL REQUIREMENTS.
2. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE, SHEET E-601, FOR ELECTRICAL REQUIREMENTS.
3. PROVIDE GFCI PROTECTION FOR RECEPTACLES LOCATED IN KITCHEN PER NEC 210.8(B)(2). IF NOT ACCESSIBLE, USE GFI CIRCUIT BREAKER.

FLAG NOTES

1. ROUTE ALL POWER AND ASSOCIATED CONDUIT FROM DEVICES THROUGH MILLWORK. UP FURRED OUT WALL TO PANEL LOCATION. COORDINATE EXACT LOCATION IN MILLWORK WITH CASEWORK VENDOR'S SHOP DRAWINGS.
2. PROVIDE RECEPTACLES AND TELE/DATA DEVICES BELOW MILLWORK. COORDINATE EXACT LOCATION IN MILLWORK WITH CASEWORK VENDOR'S SHOP DRAWINGS.
3. MOUNT 30A/208V/2P NEMA 1, GENERAL DUTY DISCONNECTS SWITCH IN ACCESSIBLE SPACE ABOVE WALK-IN COOLER AS REQUIRED. ENSURE ALL PENETRATIONS ARE SEALED.
4. LOCATION FOR DATA RACK ABOVE DESK. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS.
5. PROVIDE LABOR AND MATERIAL AS REQUIRED TO EXTEND EXISTING TELEPHONE CONDUIT STUB TO NEW DATA RACK LOCATION. UTILIZED CONDUIT FOR THE REMOTE WATER METER LOW VOLTAGE WIRE
6. SHOW WINDOW RECEPTACLE RECESSED IN SOFFIT . MOUNT PER NEC.
7. WALL MOUNTED SHOW WINDOW RECEPTACLE FOR OPEN SIGN. ROUTE CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE SIDE OF DOOR. LABEL SWITCH "OPEN SIGN". MOUNT RECEPTACLE WITHIN 18" OF TOP OF STOREFRONT WINDOW PER NEC.
8. EXTERIOR SWITCHED RECEPTACLE. ROUTE CIRCUIT THROUGH TIMER SWITCH FOR MANUALLY SWITCH CONTROL. SEE SWITCH BANK DETAIL, SHEET E-111.
9. PROVIDE SINGLE-GANG BOX CONCEALED BY CASEWORK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT FROM SINGLE-GANG BOX, TO TELEPHONE TERMINAL BACKBOARD LOCATION. LOW-VOLTAGE WIRING TO BE CONCEALED IN CASEWORK.
10. CASEWORK PANEL IS REMOVABLE TO ALLOW MEANS OF INSTALLATION OF CONDUIT AND LOW VOLTAGE WIRING. REFER TO CASEWORK VENDOR'S SHOP DRAWINGS FOR MORE INFORMATION.
11. COORDINATE EXACT LOCATION WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PLUS ADDITIONAL REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS PRIOR TO ROUGH-IN.
12. ROUTE EXHAUST FAN CIRCUIT THROUGH TIMECLOCK. FOR AUTOMATIC CONTROL TO OPERATE DURING BUSINESS HOURS.
13. CEILING-MOUNTED RECEPTACLE FOR ORDER HERE SIGN. ROUTE SHARED CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE. LABEL TOGGLE SWITCH "OPEN SIGN". SEE FLAG NOTE 7, THIS SHEET. COORDINATE HEIGHT WITH MOD DESIGN TEAM AND SHEET A-401.
14. PROVIDE INTEGRAL JUNCTION BOX FOR INTEGRATED CONTROLS (DOOR HEATER) IN WALK-IN COOLER/FREEZER. CONNECT TO THE CIRCUIT INDICATED.
15. PROVIDE POWER AND DATA FOR ONLINE ORDER PRINTER. REFER TO ARCH. ELEVATION FOR HEIGHT. COORDINATE LOCATION WITH MOD.
16. PROVIDE POWER AND DATA FOR FUTURE DIGITAL CLASSICS BOARD. TERMINATE AND LEAVE BLANK UNTIL POINT OF DIGITAL BOARD INSTALLATION. COORDINATE LOCATION WITH MOD AND INTERIOR DESIGN DRAWINGS PRIOR TO BID. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
17. (1) 3/4" STUB UP TO PROVIDE POWER TO DUPLEX J-BOX BENEATH COUNTER FOR (2) REFRIGERATION UNITS.
(1) 3/4" STUB UP W/PULL STRING FOR FUTURE DATA PULL.
(1) 3/4" STUB UP W/PULL STRING FOR FUTURE POWER PULL.
ENSURE CONDUITS ARE TIGHT TO EXPO FRAME UNDERNEATH COUNTER AND DO NOT INTERFERE WITH PLACEMENT OF EQUIPMENT AND SHELVING.
18. PROVIDE POWER AND DATA FOR FUTURE HANGING MENU IN SOFFIT. TERMINATE AND LEAVE BLANK UNTIL POINT OF HANGING MENU INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
19. PROVIDE CEILING OUTLET FOR ON-LINE ORDER SIGN. ROUTE SHARED CIRCUIT THROUGH TOGGLE SWITCH AT BACK OF HOUSE. LABEL TOGGLE SWITCH "OPEN SIGN". SEE FLAG NOTE 7, THIS SHEET. COORDINATE LOCATION WITH MOD AND ARCHITECTURAL SHEETS.
20. EXISTING RTU UNIT AND DUCT SMOKE DETECTORS. ELECTRICAL CONTRACTOR TO CONFIRM EXISTING ELECTRICAL EQUIPMENT IS IN GOOD WORKING CONDITION AND TO REPAIR /REPLACE AS NEED.
21. PROVIDE FLOOR BOX FOR FUTURE WING OVEN. COORDINATE REQUIREMENTS WITH MOD PRIOR TO INSTALLATION.
22. PROVIDE POWER AND DATA FOR FUTURE KIOSK AT 18"AFF. TERMINATE AND LEAVE BLANK UNTIL POINT OF KIOSK INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
23. PROVIDE POWER AND DATA FOR FUTURE PREORDER BOARD ABOVE STORE FRONT. TERMINATE AND LEAVE BLANK UNTIL POINT OF PREORDER BOARD INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
24. PROVIDE POWER AND DATA FOR FUTURE KDS AT POINT BELOW COUNTER. TERMINATE AND LEAVE BLANK UNTIL POINT OF KDS INSTALLATION. COORDINATE LOCATION WITH MOD. PROVIDE ADDITIONAL CONDUIT W/ PULL STRING FOR FUTURE POWER AND DATA.
25. PROVIDE MINIMUM 3.5kVA BUCK-BOOST TRANSFORMER FOR DOUGH PRESS BACKUP AS REQUIRED. PROVIDE CONNECTIONS AND PROPER OVERCURRENT PROTECTION PER MANUFACTURER'S SPECIFICATION.
26. NOT USED.
27. PROVIDE POWER FOR BADGE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND INTERIOR DESIGN PRIOR TO BID, ROUGH-IN AND INSTALLATION. ROUTE CIRCUIT THROUGH TIMECLOCK FOR AUTOMATIC CONTROL.

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SCALE: 1/4"=1'-0"
0 2 4 8

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E-112
POWER AND LOW VOLTAGE PLAN

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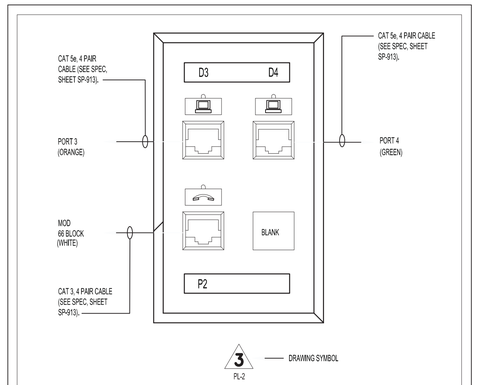
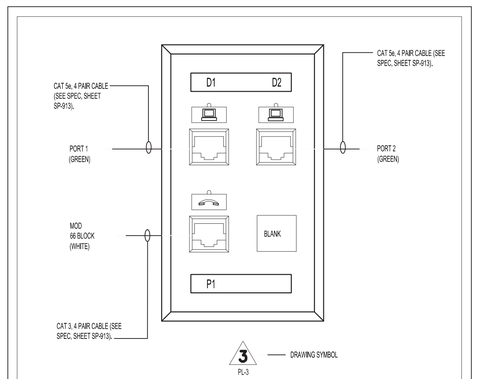


2 PL-2 PORT DETAIL
NO SCALE



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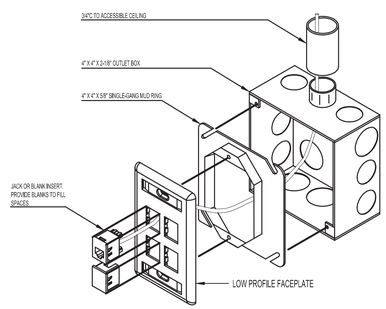

4 DATA/COMM OUTLET DETAIL
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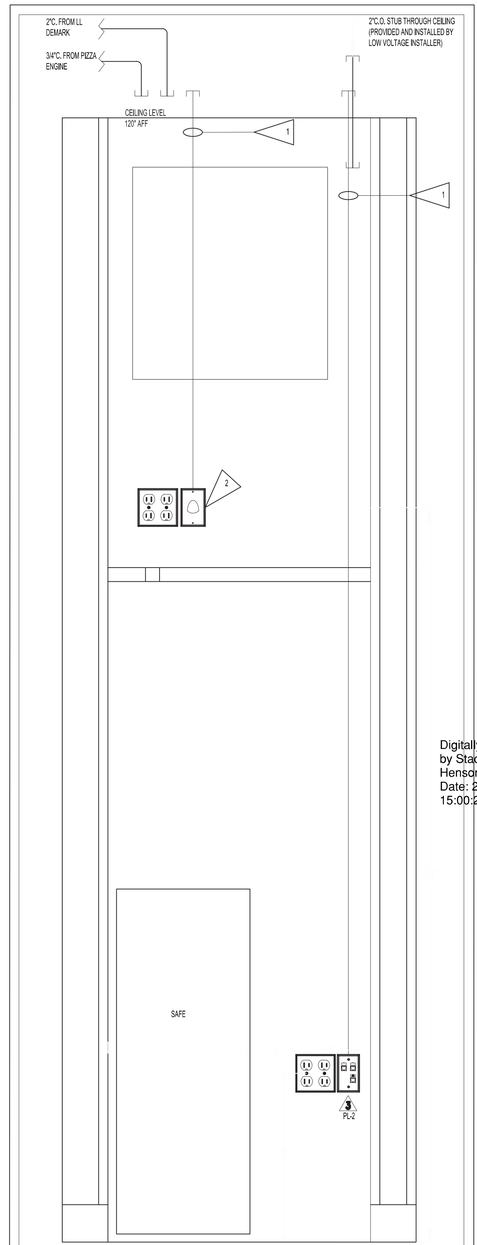

DETAIL NOTES

1. REFER TO ARCHITECTURAL ELEVATION, DETAIL 8, SHEET A-711, FOR SHELF HEIGHTS AND DESCRIPTION OF ADDITIONAL ITEMS NOT NOTED HERE.
2. CONTACT COLIN MACKENZIE (425.276.6007) WITH MOD PIZZA FOR ADDITIONAL INFORMATION ABOUT EQUIPMENT SHOWN.

FLAG NOTES

1. PROVIDE 3/4"C. W/ PULLSTRING TO ACCESSIBLE CEILING SPACE ABOVE TTB.
2. PROVIDE DUAL GANG OUTLET BOX WITH MUD RING FOR SPEAKER WIRING.

1 MANAGER'S DESK ELEVATION
NO SCALE

OWNER

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ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

E-501
LOW VOLTAGE DETAILS

CHECKED: EAF DRAWN: TMA

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avisun - 01/04/2022 1:37:44 PM

01/04/2022

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	WATTS/FIXT	FIXTURE COUNTS
	INTERIOR FIXTURES			
L-101	MANUFACTURER: JUNO MODEL #: IC23-ED704 6" RECESSED DOWNLIGHT	Integrated LED Trim: 6RLD G2 09LM 30K 90CRI 120V FRPC WWH	13.5	37
L-102	MANUFACTURER: JUNO MODEL #: R40WHRS31-WH SURFACE MONOPOINT ADAPTER AND HEAD	Sylvania 78983 LED8PAR20/DIM/827/FL40/GL1/W	8	9
L-110	MANUFACTURER: JUNO MODEL #: T SERIRES TRAC-MASTER 1-CURCUIT TRACK - BLACK	-	-	11
L-111	MANUFACTURER: JUNO MODEL #: R531 BL TRACK HEAD, BLACK	SYLVANIA 78983 LED8PAR20/DIM/827/ FL40/GL1/W	8	6
L-112	MANUFACTURER: JUNO MODEL #: T259L 27K 80CRI BL TRACK WALL WASH HEAD BLACK	Sylvania 78983 LED8PAR20/DIM/827/FL40/GL1/W	57	9
L-150	MANUFACTURER: VOLT MODEL #: DV3K-24V LINEAR LED TAPE-WALL WASH	LED	5.5/FT	10FT
L-151	MANUFACTURER: VOLT MODEL #: PH35K-24V WITH CH-002-A-2-FR-MT-EC LINEAR LED TAPE-WALL WASH	LED	4.25/FT	9.67 FT
L-202	MANUFACTURER: BASELITE MODEL #: TR1PR/ 41/ 20"/BL 12" ACRYLIC DOME PENDANT	Sylvania 78117 LED17A21/DIM/0/827/U/B	17	10
L-203	MANUFACTURER: CONTECH LIGHTING MODEL #: CY3T127KMVD2FCMB 3" CYLINDER PENDANT - BLACK	Integrated LED	10	2
L-250	MANUFACTURER: INDY MODEL #: S2X4BL3935UWH 2'X4' RECESSED TROFFER	Integrated LED	36	7
L-260	MANUFACTURER: NORLAKE MODEL #: P/N-157750 WALK-IN COOLER / FREEZER DOOR	LED	19	2
L-261	MANUFACTURER: NORLAKE MODEL #: P/N 157752 48"L WALK-IN COOLER, OPTIONAL FOR CEILING MOUNT	LED	19	1
L-460	MANUFACTURER: STAINART LIGHTING MODEL #: CUSTOM 16" STAINART SHADE PENDANT	Sylvania 74687 LED9A19/DIM/0/827/U	9	6
L-490	MANUFACTURER: LITHONIA LIGHTING MODEL #: Contemporary Cylinder Vanity RMVCCL 24IN MVOLT 30K 90CRI BN RESTROOM WALL SCONCE	Integrated LED 3000K	18	2
L-501	MANUFACTURER: EXITRONIX MODEL #: VLEDUBLEL90 LED COMBO EXIT/EMERGENCY LIGHT WITH 90-MIN BATTERY. -RED LETTERS; MOUNT AT +8' AFF	LED	2.2	1
L-503	MANUFACTURER: EXITRONIX MODEL #: LED90 EMERGENCY LIGHT/WHITE WITH 90-MIN. BATTERY -FOR CEILING SUSPENDED PROVIDE J-BOX AND CONDUIT STEM FOR MOUNTING. SUSPEND AT +8' AFF	LED	2.2	3
L-600	MANUFACTURER: AMERICAN LIGHTING MODEL #: (STRING BLACK) LS-M-24-BLK PATIO STRING LIGHTS	American Lighting PS14-E26-WW	5.5/FT	181FT

NOTES: CONTRACTOR TO VERIFY ALL QUNAITIES WITH SHEET E-111 AND A-121 PRIOR TO ORDERING AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT AND DESIGN TEAM. CONTRACTOR TO VERIFY ALL CORD LENGTHS PRIOR TO ORDER. LONGER CORD LENGTH REQUIRED DUE TO HIGH CEILING HEIGHT

KITCHEN EQUIPMENT CONNECTION SCHEDULE

QUANTITY	TAG	EQUIPMENT	MANUFACTURER	MODEL	VOLTS/PHASE	AMPS	HP	MTG. HEIGHT	NOTES
			ENGINE						
1	E-102	PIZZA OVEN DIRECT VENT SYSTEM	CAPTIVE AIRE SYSTEMS	CUSTOM					
1	E-108-HC	FIRED DECK OVEN - POWDERCOAT - ILLUSION CHERRY	WOODSTONE	WS-FD-9660-RFG-LR-IR	120/1	2			5
1	E-120	DOUGH PRESS	PIZZA EQUIPMENT PROFESSIONALS	PZF30-DF	208/3	15			
1	X-E-135	REFRIGERATOR COUNTER - 27" WITH HOOD	TRUE MANUFACTURING	TSSU-27-12M-C-ADA-HC					
2	E-138	REFRIGERATOR COUNTER - 72" FLAT LID	TRUE MANUFACTURING	TSSU-72-30M-B-ST-HC (MODE)	120/1				
1	E-139	REFRIGERATOR COUNTER - 72" WITH HOOD	TRUE MANUFACTURING	TSSU-72-30M-B-ST-HC (MODC)	120/1	10			
1	E-144	REACH-IN COOLER	TURBO AIR	TOM-40S-N	115/1	6.9	1/2		
1	E-155	POS SCREEN	PAR	EVERSERV 600	120/ 1	3			2
1	E-156	POS PRINTER	EPSON	TM-T88V	120/ 1	3			2
2	E-157	POS INTERNET PRINTER	EPSON	TM-L90 PLUS	120/ 1	3			2
2	E-158	POS CASH BOX	PAR	M8571-03	120/ 1	3			2
1	X-E-165	LOYALTY SCANNER	HONEYWELL	GENESIS 7580G	120/ 1				
1	E-182	UNDER COUNTER REFRIGERATOR-24" LEFT	TRUE	TUC-24-HC-LH	120/1	2			
1	E-183	UNDER COUNTER REFRIGERATOR-24" RIGHT	TRUE	TUC-24-HC-RH	120/1	2			
1	E-231	EMV READER	LANE/7000 EMV READER	INGENICO/LANE/7000 TAILWIND / CST0166 (BACKPLATE) HILIPRO / SWIVEL STAND FOR PAX S300	120/1	,5			
			DINING						
1	E-500	SODA MACHINE	CORNELIUS	DF200 PART #621053001	120/1	5		+18"	
1	E-501	ICE MACHINE	ICE O MATIC	GEM0956A	208/1	11.8		+18"	3
2	E-502	JUICE DISPENSER	GRINDMASTER	CRATHCO CECILWARE D25-3	120/1	6		+18"	
1	E-510	AUDIO AMPLIFIER	BOSE	POWERSHARE PS602	120/1	1			
1	E-511	AUDIO CONTROL CENTER	BOSE	CONTROLCENTER CC-1	120/1				
4	E-512	SPEAKER - DINING	BOSE	FREESPACE DS 100F	120/1				
2	E-513	SPEAKER - RESTROOM	BOSE	FREESPACE DS 16F	120/1				
2	E-514	SPEAKER - PATIO	BOSE	FREESPACE DS 100SE	120/1				
			KITCHEN						
1	E-300-RT	WALK IN COOLER/FREEZER - 16' - RIGHT	NORLAKE	MOD PIZZA 8X16 CP-3	120/1				
1	E-310	CAPSULE PAK REFRIGERATION UNIT - COOLER	NORLAKE	RCPB100JC-S-4-EV	208/1	11.4			3
1	E-311	CAPSULE PAK REFRIGERATION UNIT - FREEZER	NORLAKE	RCPF075JC-S-4-EV	208/1	9			3
1	E-320	DISHWASHER	ECOLAB	ES2000HT	208/ 3	47			3
1	E-421	TEA BREWER	BUNN-O-MATIC	36700.0059 TB3Q, 34100.0000 TDO-4	120/ 1	14.4		+52"	3
1	E-425	IMMERSION BLENDER	WARING COMMERCIAL	WSB-60	120/ 1	6.5			
1	E-426	DOUGH PRESS BACKUP	DOUGHXPRESS	DMS-2-18	240/ 1	14.5			
2	E-428	COKE BIB RACK	MCCANN'S	IC 44239	120/ 1	10			
1	E-430	AUDIT SAFE	AMSEC	DSF2516	120/1				
2	E-431	NAT GAS TANKLESS WATER HEATER	NORITZ	NCC199CDV (GQ-C3259WZ-FF US NG)					
1	E-434	9U NETWORK RACK	TRIPP-LITE	SMARTRACK SRW9UG					

GENERAL NOTES

A. REVIEW ALL FOOD SERVICE PLAN SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT LISTED IN THIS SCHEDULE.

B. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND WATER PROOF CONNECTIONS FOR ALL FLEXIBLE DIRECT CONNECTIONS.

C. PROVIDE GFCI TYPE RECEPTACLES FOR ALL 125V 1PH AND 20A RECEPTACLES. PROVIDE GFCI BREAKERS WHERE NOT ACCESSIBLE.

D. MAKE ALL FINAL CONNECTIONS TO ALL KITCHEN AND COOLER EQUIPMENT. PROVIDE ALL APPURTENANCES AS REQUIRED.

E. CONTRACTOR SHALL FURNISH AND INSTALL ALL KITCHEN EQUIPMENT. SEE EQUIPMENT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION.

SPECIFIC NOTES

1. PROVIDE SHUNT TRIP BREAKERS FOR "POWER OFF" CONTROL OF ALL EQUIPMENT UNDER HOOD BY FIRE SUPPRESSION SYSTEM.

2. PROVIDE DATA CONNECTION FOR POS TERMINAL COORDINATE LOCATION WITH OWNER.

3. COORDINATE RECEPTACLE TYPE WITH MANUFACTURER PRIOR TO ROUGH IN. PROVIDE AS REQUIRED.

4. LIGHT FIXTURES PROVIDED BY COOLER MANUFACTURER ELECTRICAL CONTRACTOR TO PROVIDE LAMPS FOR INTEGRATED FIXTURES.

5. EARLY INSTALL REQUIRED.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	HP/KW/VA	VOLTS/ PHASE	FLA	MOCP	DISC. SWITCH	CIRCUIT	REMARKS	NOTES
(E)RTU-1	EXISTING ROOF TOP UNIT		208/3		45	45	EL-2:4:6	-	-
(E)RTU-2	EXISTING ROOF TOP UNIT		208/3		45	45	EL-8:10:12	-	-
(E)RTU-3	EXISTING ROOF TOP UNIT		208/3		45	45	EL-14:16:18	-	-
(E)RTU-4	EXISTING ROOF TOP UNIT		208/3		45	45	EL-20:22:24	-	-
EF-1	3 PIZZA OVEN DIRECT VENT SYSTEM	0.50/HP	115/1	7.6 FLA	20	Sm	EL-61	3 INTERLOCK WITH OVEN CONTROL PANEL	1,2
EF-2 & EF-3	RESTROOMS EXHAUST FAN	33.1W	120/1	4.8 FLA	20	Sm	EL-46	CONTROLLED BY TIMECLOCK	1,3
GWH	ELECTRICAL WATER HEATERS	GAS	120/1	4 FLA	20	Sm	EL-74, EL-76	-	-
CP-1	CIRCULATING PUMP	1/12 HP	120/1	1.75 FLA	20	Sm	EL-72	CONTROLLED BY TIMECLOCK	1

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES(APPLIES TO ALL EQUIPMENT LISTED IN THE SCHEDULE)

A.	THE ABOVE INFORMATION FOR SPECIFIC MANUFACTURER, THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO ELECTRICAL ROUGH IN.
B.	LOCAL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
C.	ABBREVIATIONS:
	HRS — HORSE POWER MOTOR RATED DISCONNECT SWITCH WITH OVERLOAD PROTECTION, 16-AMP MINIMUM , RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED.
	Sm — MOTOR RATED TOGGLE SWITCH.
	TS — TOGGLE SWITCH, 16-AMP MINIMUM, RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED.
	MOCP — MAXIMUM OVERCURRENT PROTECTION.
D.	ALL DISCONNTECTS ARE 3-POLE UNLESS NOTED OTHERWISE.
E.	PROVIDE A ROOFTOP WEATHERPROOF GFI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL ROOF MOUNTED HVAC UNITS AS REQUIRED BY NEC.

SCHEDULE NOTES(APPLIES TO ALL SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN

1.	CONNECT TO TIMER SWITCH AT BACK OF HOUSE FOR CONTROL.
2.	REFER TO CAPTIVE-AIRE SYSTEM DETAILS ON H-SHEETS FOR MORE INFORMATION.
3.	EXISTING CIRCUIT.

3

OWNER

MOD

2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:59:06-05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

E-601

ELECTRICAL SCHEDULES

CHECKED: EAF DRAWN: TMA

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01/04/2022

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

EXISTING PANEL EL – SECTION 1

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE

MAIN: 400A MCB
SYSTEM: 3ø, 4W
BUS RATING 400A

CONN. LOAD: 116.9 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
2	1	LTG – KITCHEN/RESTROOMS	3/4"	#12	#12	#12	20/1	L	400 4122			A	45/3	EXISTING TO REMAIN				RTU-1	2	–
2	3	LTG – DISPLAYS	3/4"	#12	#12	#12	20/1	L		653 4122		A						"	4	–
2	5	LTG – PIZZA ENGINE/DINNING	3/4"	#12	#12	#12	20/1	L			609 4122	A						"	6	–
2	7	LTG – PATIO	3/4"	#12	#12	#12	20/1	L	996 4122			A	45/3	EXISTING TO REMAIN				RTU-2	8	–
2	9	EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L		600 4122		A						"	10	–
2	11	EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L			600 4122	A						"	12	–
2	13	EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L	600 4122			A	45/3	EXISTING TO REMAIN				RTU-3	14	–
–	15	TIMECLOCKS	3/4"	#12	#12	#12	20/1	L		400 4122		A						"	16	–
–	17	RECEPTS – SHOW WINDOW	3/4"	#12	#12	#12	20/1	L			1200 4122	A						"	18	–
–	19	RECEPTS – SHOW WINDOW	3/4"	#12	#12	#12	20/1	L	1200 4122			A	45/3	EXISTING TO REMAIN				RTU-4	20	–
–	21	RECEPT – SHOW WINDOW	3/4"	#12	#12	#12	20/1	L		600 4122		A						"	22	–
2	23	BARGE	3/4"	#12	#12	#12	20/1	L			600 4122	A						"	24	–
–	25	SPACE	–	–	–	–	–	–	1200 720			R	20/1	EXISTING TO REMAIN				RECEPTS – RTU ROOF	26	–
–	27	E501 – ICE MACHINE	3/4"	#12	–	#12	15/2	K		1227 932		M	15/2	3/4"	#12	–	#12	E311 – WALK-IN FREEZER CONDENSER	28	–
–	29	"		#12				K			1227 932	M			#12			"	30	–
–	31	FUTURE CUSTOMER ORDER POINT	3/4"	#12	#12	#12	20/1	R	360 180			R	20/1	3/4"	#12	#12	#12	EXTERIOR RECEPTACLE	32	2
–	33	WALK-IN COOLER DOOR HEATER	3/4"	#12	#12	#12	20/1	H		540 1200		L	20/1	3/4"	#12	#12	#12	FUTURE HANGING MENU	34	–
–	35	WALK-IN COOLER/FREEZER LIGHTS	3/4"	#12	#12	#12	20/1	L			57 1600	K	20/1	3/4"	#12	#12	#12	FUTURE EQUIPMENT	36	–
–	37	E300-RT – WALK-IN COOLER/FREEZER	3/4"	#12	#12	#12	20/1	K	600 600			R	20/1	3/4"	#12	#12	#12	FUTURE DIGITAL CLASSIC BOARD	38	–
–	39	E310 – WALK-IN COOLER CONDENSER	3/4"	#12	–	#12	15/2	M		1186 600		R	20/1	3/4"	#12	#12	#12	FUTURE POWER – PREORDER BOARD	40	–
–	41	"		#12				M			1186 600	R	20/1	3/4"	#12	#12	#12	FUTURE POWER – KIOSK	42	–

INTERRUPT RATING: EXISTING — 23344 | 24426 | 25099 — FROM: EXISTING LANDLORD SERVICE

PROVIDE SUBFEED LUGS

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	9715	1.25	12144
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	1376	0.5	688
SPACE HEATING	540	0.0	0
AIR CONDITIONING	49464	1.0	49464

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON–SEASONAL MOTORS	5892	1.0	5892
LARGEST MOTOR	3600	0.25	900
WATER HEATING	960	1.0	960
KITCHEN EQUIP.	38961	0.8	25325

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON–CONTINUOUS LOADS	0	1.0	0
MISC. DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	116.9	KVA	324.7 AMPS
TOTAL DEMAND LOAD	105.4	KVA	292.7 AMPS

Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. TO BE CONTROLLED THROUGH LIGHTING CONTACTOR. REFER TO DETAIL 3/E–111.
Note 3. PROVIDE HACR RATED BREAKER.
Note 4. SIZE BREAKER AND CONDUCTORS PER MANUFACTURER'S SPECIFICATION FOR KVA RATING OF BUCK–BOOST TRANSFORMER SUPPLIED.
Note 5. PROVIDE SHUNT–TRIP BREAKER.

EXISTING PANEL EL – SECTION 2

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE

MAIN: 400A MLO
SYSTEM: 3ø, 4W
BUS RATING 400A

CONN. LOAD: 45 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
–	43	RECEPTACLE – TTB	3/4"	#12	#12	#12	20/1	R	360 600			R	20/1	3/4"	#12	#12	#12	MENU BOARD	44	–
4	45	E–426 – DOUGH PRESS BACK UP	3/4"	#12	–	#12	20/2	K		1550 180		M	20/1	3/4"	#12	#12	#12	RESTROOM FANS EF–2, EF–3, EF–4	46	2
–	47	"		#12				K			1550 700	K	20/1	3/4"	#12	#12	#12	E502 – JUICE DISPENSER #1	48	–
–	49	RECEPTS – PICK UP SIGNS	3/4"	#12	#12	#12	20/1	R	800 700			K	20/1	3/4"	#12	#12	#12	E502 – JUICE DISPENSER #2	50	–
–	51	FUTURE POWER – KDS	3/4"	#12	#12	#12	20/1	R		500 180		R	20/1	3/4"	#12	#12	#12	X–E165 – LOYALTY SCANNER	52	–
–	53	E510– AMP/PRE–AMP	3/4"	#12	#12	#12	20/1	R			500 500	R	20/1	3/4"	#12	#12	#12	E231 – EMV READER	54	–
–	55	E–120 – DOUGH PRESS	3/4"	#12	–	#12	20/3	K	1667 4824			K	60/3	3/4"	#6	–	#10	E320 – DISHWASHER	56	–
–	57	"		#12				K		1667 4824		K			#6			"	58	–
–	59	"		#12				K			1667 4824	K			#6			"	60	–
–	61	EF–1 DIRECT VENT	3/4"	#12	#12	#12	20/1	M	912 1200			R	20/1	3/4"	#12	#12	#12	E428 – COCA COLA	62	–
–	63	MANAGER'S DESK REC.	3/4"	#12	#12	#12	20/1	R		360 1680		K	20/1	3/4"	#12	#12	#12	E421 – TEA BREWER AND DISPENSER	64	–
3 –	65	KITCHEN CONV. RECEPT.	3/4"	#12	#12	#12	20/1	R			360 360	R	20/1	3/4"	#12	#12	#12	E157 – P.O.S. PRINTER	66	–
–	67	E102, E108–IC – PIZZA OVEN	3/4"	#12	#12	#12	15/1	K	800 750			K	20/1	3/4"	#12	#12	#12	E425 – IMMERSION BLENDER	68	–
–	69	SPACE	–	–	–	–	–	–		–		K	20/1	3/4"	#12	#12	#12	E500 – SODA MACHINE	70	–
–	71	FUTURE POWER – WING OVEN	3/4"	#12	#12	#12	20/1	R		600	360 300	M	20/1	3/4"	#12	#12	#12	CP–1 CIRCULATING PUMP	72	2
–	73	E183 – UNDERCOUNTER REFRIGERATOR	3/4"	#12	#12	#12	20/1	K	240 480			W	20/1	3/4"	#12	#12	#12	E431 – GWH–1	74	–
–	75	E182 – UNDERCOUNTER REFRIGERATOR	3/4"	#12	#12	#12	20/1	K		240 480		W	20/1	3/4"	#12	#12	#12	E431 – GWH–2	76	–
–	77	X–E135 – REFRIGERATORS COUNTER	3/4"	#12	#12	#12	20/1	K			1176 1176	K	15/1	3/4"	#12	#12	#12	E138 – REF. COUNTER 72"	78	–
–	79	RECEPT – DINING 101	3/4"	#12	#12	#12	20/1	R	360 1176			K	15/1	3/4"	#12	#12	#12	E138 – REF. COUNTER 72"	80	–
–	81	E139 – REFRIGERATORS COUNTER	3/4"	#12	#12	#12	20/1	K		1176 1320		K	15/1	3/4"	#12	#12	#12	E144 – REACH–IN COOLER 40"	82	–
–	83	E155,E156,E157,E158 – POS	3/4"	#12	#12	#12	20/1	R			700 1200	R	20/1	3/4"	#12	#12	#12	E–428 – COCA COLA	84	–

INTERRUPT RATING: EXISTING — 14869 | 14757 | 15373 — FROM: EXISTING PANEL EL – SECTION 1

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	8340	1.0	8340
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON–SEASONAL MOTORS	1392	1.0	1392
LARGEST MOTOR	3600	0.25	900
WATER HEATING	960	1.0	960
KITCHEN EQUIP.	34307	0.65	22300

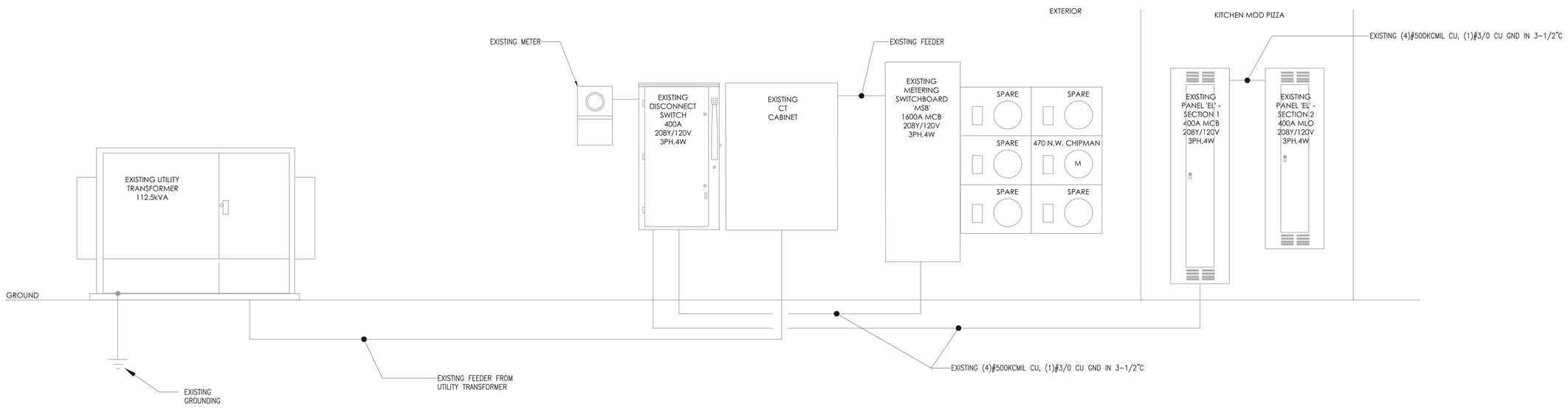
REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON–CONTINUOUS LOADS	0	1.0	0
MISC. DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	45	KVA	125 AMPS
TOTAL DEMAND LOAD	33.9	KVA	94.1 AMPS

Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. TO BE CONTROLLED THROUGH LIGHTING CONTACTOR. REFER TO DETAIL 3/E–111.
Note 3. PROVIDE HACR RATED BREAKER.
Note 4. SIZE BREAKER AND CONDUCTORS PER MANUFACTURER'S SPECIFICATION FOR KVA RATING OF BUCK–BOOST TRANSFORMER SUPPLIED.
Note 5. PROVIDE SHUNT–TRIP BREAKER.

1 PANEL SCHEDULES
NO SCALE

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE COPPER UNLESS NOTED OTHERWISE.
2. LOAD CALCULATIONS SHOWN IS FOR MOD PIZZA TENANT AND FEEDER ONLY. LANDLORD RESPONSIBLE FOR ELECTRICAL SERVICE AND LOAD CALCULATION AND VERIFICATION OF EXISTING SERVICE CAPACITY.
3. LANDLORD PROVIDING CONDUIT STUB UP TO SWITCH AND CONDUCTORS.
4. LANDLORD PROVIDING CONDUIT SAFETY SWITCH, FUSES, PANEL MP WITH BREAKERS.
5. EXISTING ELECTRICAL SYSTEM PROVIDED BY LANDLORD. E.C TO VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER IF ANY DISCREPANCY.



2 EXISTING ONE - LINE DIAGRAM (FOR INFORMATION ONLY)
NO SCALE

OWNER

MOD

2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:58:56-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
1	BUILDING COMMENTS	10.18.21
2	DESIGN UPGRADES	10.18.21
3	HOOD REVISION	11.17.21
4	EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

E-602
RISER DIAGRAM AND PANEL SCHEDULES

CHECKED: EAF DRAWN: TMA

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

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DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS

005200 AGREEMENT FORMS

A. THE AIA A117 "ABBREVIATED FORM OF AGREEMENT BETWEEN TENANT AND CONTRACTOR", SHALL GOVERN THE WORK.

007200 GENERAL CONDITIONS

A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, 1997 EDITION, SHALL GOVERN THE WORK. COPIES MAY BE OBTAINED AT A NOMINAL CHARGE FROM THE AIA OFFICE, 1911 1ST AVE, SEATTLE, WA 98101; 206/448_4938.

B. THE FOLLOWING SUPPLEMENTS THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, 1997 EDITION. ALL UNALTERED PROVISIONS OF THE GENERAL CONDITIONS SHALL REMAIN IN EFFECT.

ARTICLE 1 GENERAL PROVISIONS

A. ADD THE FOLLOWING NEW SUBPARAGRAPHS TO 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS:

"1.2.4 DIVISION 1 SPECIFICATION SECTIONS- GENERAL REQUIREMENTS, GOVERN THE EXECUTION OF ALL SECTIONS OF THE SPECIFICATIONS.

"1.2.6 THE REFERENCE STANDARDS REFERRED TO IN THE CONTRACT DOCUMENTS SHALL BE THE EDITION IN EFFECT AT THE TIME OF THE AGREEMENT, UNLESS SPECIFICALLY STATED OTHERWISE.

"1.2.7 EXCEPT AS OTHERWISE PROVIDED IN THE AGREEMENT, DOCUMENTS NUMBERED 000000 THROUGH 004999, AND BOUND IN FRONT OF THE 'GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION' IN THE PROJECT MANUAL, CONSIST OF INTRODUCTORY INFORMATION, BIDDING REQUIREMENTS, AND INFORMATION AVAILABLE TO THE CONTRACTOR, AND ARE NOT PART OF THE CONTRACT.

B. ADD THE FOLLOWING NEW SUBPARAGRAPHS TO 1.4 INTERPRETATION:

"1.4.2 SPECIFICATIONS AND NOTES ARE WRITTEN IN IMPERATIVE AND ABBREVIATED FORM. IMPERATIVE LANGUAGE OF THE TECHNICAL SECTIONS IS DIRECTED AT THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE. INCOMPLETE SENTENCES SHALL BE COMPLETED BY INSERTING "SHALL," "SHALL BE," "THE CONTRACTOR SHALL," AND SIMILAR MANDATORY PHRASES BY INFERENCE. THE WORDS "SHALL BE" SHALL BE SUPPLIED BY INFERENCE WHERE A COLON (:) IS USED.

"1.4.3 WHERE "AS SHOWN," "AS DETAILED," OR WORDS OF SIMILAR MEANING ARE USED, REFERENCES TO THE DRAWINGS ARE INTENDED UNLESS STATED OTHERWISE. WHERE "AS DIRECTED," "AS REQUIRED," "AS SELECTED," "APPROVED" OR WORDS OF SIMILAR MEANING ARE USED, IT SHALL BE UNDERSTOOD THAT "BY THE ARCHITECT" FOLLOWS UNLESS STATED OTHERWISE. "AS NECESSARY" SHALL BE UNDERSTOOD TO MEAN "AS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, APPLICABLE CODES AND JURISDICTIONAL REQUIREMENTS, AND ACCEPTED TRADE PRACTICES." "FURNISH" MEANS "CONTRACTOR SHALL PROCURE, PAY FOR, AND DELIVER"; "INSTALL" MEANS "CONTRACTOR SHALL SET IN POSITION AND CONNECT OR ADJUST FOR FINAL USE"; "PROVIDE" MEANS "CONTRACTOR SHALL FURNISH AND INSTALL."

ARTICLE 2 TENANT

NO MODIFICATIONS.

ARTICLE 3 CONTRACTOR

A. DELETE SUBPARAGRAPH 3.7.1, AND SUBSTITUTE THE FOLLOWING:

"3.7.1 UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE TENANT WILL PAY FOR THE GENERAL PLAN CHECK FEE AND THE BUILDING PERMIT. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL OTHER PERMITS, GOVERNMENTAL FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK."

ARTICLE 4 ADMINISTRATION OF THE CONTRACT

A. ADD THE FOLLOWING SENTENCE TO SUBPARAGRAPH 4.2.4:

"COPIES OR MEMOS OF ALL DIRECT COMMUNICATIONS BETWEEN THE TENANT AND CONTRACTOR FACILITATING CONTRACT ADMINISTRATION SHALL BE PROMPTLY TRANSMITTED TO THE ARCHITECT BY THE PARTY INITIATING THE COMMUNICATION."

ARTICLE 5 SUBCONTRACTORS

A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 5.1 DEFINITION:

"5.1.3 THE TERMS 'INSTALLER,' 'FABRICATOR,' AND 'SUPPLIER,' AS REFERENCED IN THE CONTRACT DOCUMENTS, OR IN THE CONTRACT DOCUMENTS, REFER TO THE CONTRACTOR, A SUBCONTRACTOR, OR A SUB-SUBCONTRACTOR."

ARTICLE 6 CONSTRUCTION BY TENANT OR BY SEPARATE CONTRACTORS

NO MODIFICATIONS.

ARTICLE 7 CHANGES IN THE WORK

NO MODIFICATIONS.

ARTICLE 8 TIME

A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 8.3 DELAYS AND EXTENSIONS OF TIME:

"8.3.4 SHOULD AN EXTENSION OF TIME BE GRANTED BY THE TENANT TO THE CONTRACTOR, THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE TENANT FROM THE LOSS TO ANY SUBCONTRACTOR CAUSED BY SUCH EXTENSION OF TIME."

ARTICLE 9 PAYMENTS AND COMPLETION

NO MODIFICATIONS.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

NO MODIFICATIONS.

ARTICLE 11 INSURANCE AND BONDS

NO MODIFICATIONS.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

NO MODIFICATIONS

ARTICLE 13 MISCELLANEOUS PROVISIONS

NO MODIFICATIONS.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

NO MODIFICATIONS.

DIVISION 1 – GENERAL REQUIREMENTS

011000 SUMMARY

A. THIS SPECIFICATION IDENTIFIES REQUIREMENTS FOR SEVERAL PROJECTS, AND MAY CONTAIN ELEMENTS WHICH DO NOT APPLY TO THIS PARTICULAR PROJECT. WHERE NOTED IN THE SPECIFICATIONS, PLEASE REFER TO THE DRAWINGS TO DETERMINE WHETHER THE SPECIFIED ELEMENT APPLIES TO THIS PROJECT.

B. USE OF PREMISES:
1. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL HAVE FREE AND COMPLETE USE OF THE SITE.
2. COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE TENANT.
3. LIMIT NOISE PRODUCING WORK TO THE HOURS BETWEEN 7 AM AND 7 PM MONDAY THROUGH FRIDAY, AND 9 AM AND 6 PM ON SATURDAYS AND SUNDAYS. COOPERATE WITH TENANT TO MINIMIZE NOISE IMPACTS ON ADJACENT PROPERTIES.

C. SPECIAL WORK REQUIREMENTS:
1. COMPLY WITH, ALL DESIGN AND CONSTRUCTION REQUIREMENTS OF THE BUILDING OWNER. NOTIFY THE TENANT IMMEDIATELY IF THE BUILDING OWNER'S REQUIREMENTS CONFLICT WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. LIMIT USE OF PREMISES TO ONLY THOSE AREAS INVOLVED IN THE CONSTRUCTION OPERATIONS AND AS REQUIRED FOR ACCESS.
3. COORDINATE USE OF PREMISES UNDER DIRECTION OF THE TENANT AND THE BUILDING OWNER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF JURISDICTIONAL CODE AUTHORITIES.
4. OCCUPANCY REQUIREMENTS: ADJACENT TENANT SPACES MAY BE OCCUPIED. COOPERATE WITH THE TENANT AND THE BUILDING OWNER TO MINIMIZE CONFLICT, AND TO FACILITATE THE OPERATIONS OF ADJACENT TENANTS.

D. SEPARATE WORK:
1. ITEMS NOTED "NIC" (NOT IN CONTRACT), WILL BE FURNISHED AND INSTALLED BY OTHERS.
2. PERFORM WORK SO AS TO ALLOW THE PERFORMANCE OF WORK BY OTHER CONTRACTORS.

E. PRODUCTS FURNISHED BY TENANT FOR INSTALLATION BY THE CONTRACTOR (FOIC):
1. COORDINATE WORK TO FACILITATE INSTALLATION OF PRODUCTS FURNISHED BY THE TENANT FOR INSTALLATION BY THE CONTRACTOR.
2. TENANT'S RESPONSIBILITIES:
a. ARRANGE FOR AND DELIVER SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, TO CONTRACTOR.
b. ARRANGE AND PAY FOR PRODUCT DELIVERY TO SITE.
c. UPON DELIVERY, INSPECT PRODUCTS JOINTLY WITH CONTRACTOR.
d. SUBMIT CLAIMS FOR TRANSPORTATION DAMAGE.
e. ARRANGE FOR REPLACEMENT OF DAMAGED, DEFECTIVE, OR MISSING ITEMS.
f. ARRANGE FOR MANUFACTURERS' WARRANTIES, INSPECTIONS, AND SERVICE.
3. CONTRACTOR'S RESPONSIBILITIES:
a. REVIEW SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
b. RECEIVE AND UNLOAD PRODUCTS AT SITE; INSPECT FOR COMPLETENESS, FOR DAMAGE, JOINTLY WITH TENANT.
c. HANDLE, STORE, INSTALL AND FINISH PRODUCTS.
d. REPAIR OR REPLACE ITEMS DAMAGED BY WORK OF THIS CONTRACT.

F. APPLICATIONS FOR PAYMENT: SUBMIT THREE COPIES OF EACH APPLICATION UNDER PROCEDURES OF SECTION 013300 ON AIA G702 – APPLICATION AND CERTIFICATE FOR PAYMENT, OR A FORM APPROVED BY THE TENANT.

G. COORDINATION:
1. COORDINATE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
2. COORDINATE SPACE REQUIREMENTS FOR MECHANICAL AND ELECTRICAL SYSTEMS. MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY, AND MAXIMIZE ACCESSIBILITY FOR MAINTENANCE, REPAIR, AND OTHER INSTALLATIONS.
3. EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF THE WORK. REMOVE ILL-TIMED AND DEFECTIVE WORK AND REPLACE WITH NEW WORK CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. UNCOVER DEFECTIVE AND NONCONFORMING WORK AND FURNISH SAMPLES AS REQUIRED FOR TESTING.
5. SEAL PENETRATIONS THROUGH FLOORS, WALLS, AND CEILINGS.

H. FIELD ENGINEERING:
1. PROVIDE FIELD ENGINEERING SERVICES; ESTABLISH GRADES, LINES, AND LEVELS, BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.
2. CONTROL POINTS ARE THOSE SHOWN ON DRAWINGS. LOCATE AND PROTECT CONTROL AND REFERENCE POINTS. NOTIFY THE ARCHITECT IF REFERENCE POINTS CANNOT BE LOCATED.

I. REQUEST FOR INFORMATION:
1. ALLOT TIME TO RESOLVE QUESTIONS CONCERNING THE CONSTRUCTION DOCUMENTS WITH THE TENANT.
2. USE FORM AS APPROVED BY THE TENANT.

012300 ALTERNATES

A. STATE THE COST TO BE ADDED OR SUBTRACTED FROM THE CONTRACT AMOUNT FOR EACH OF THE FOLLOWING ALTERNATES:
1. ALTERNATE NO. 1:
a. UNDER BASIC BID: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [ ].
b. UNDER ALTERNATE NO 1: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [ ] IN LIEU OF WORK INDICATED FOR [ ].

013119 PROJECT MEETINGS

A. PROGRESS MEETINGS: ATTEND PROGRESS MEETINGS CALLED BY THE ARCHITECT THROUGHOUT THE PROGRESS OF THE WORK.

B. CONVENE A PRE-INSTALLATION MEETING WHEN IT IS SPECIFIED FOR A CERTAIN PORTION OF THE WORK. REQUIRE ATTENDANCE OF ENTITIES DIRECTLY AFFECTING, OR AFFECTED BY, THE WORK OF THE SECTION.

013300 SUBMITTAL PROCEDURES

A. SUBMITTAL PROCEDURE:
1. IDENTIFY DEVIATIONS FROM CONTRACT DOCUMENTS. LEAVE SPACE FOR CONTRACTOR AND TENANT REVIEW STAMPS.
2. REVIEW AND SIGN EACH SUBMITTAL PRIOR TO SUBMITTAL TO THE TENANT. UNSIGNED SUBMITTALS WILL BE RETURNED BY THE TENANT.
3. UNLESS SPECIFIED OTHERWISE, SUBMIT THE NUMBER OF SUBMITTALS THE CONTRACTOR REQUIRES, PLUS ONE WHICH WILL BE RETAINED BY THE TENANT
4. TRANSMIT EACH ITEM TO THE TENANT UNDER THE CONTRACTOR'S STANDARD TRANSMITTAL FORM AS APPROVED BY THE TENANT. INCLUDE PROJECT NAME, CONTRACTOR NAME, SUBCONTRACTOR OR SUPPLIER NAME, AND DRAWING SHEET, DETAIL NUMBER, OR SPECIFICATION SECTION NUMBER CORRESPONDING TO THE SUBMITTAL AS APPROPRIATE.
5. MAKE SUBMITTALS AS REQUIRED TO CAUSE NO DELAY IN THE WORK. ALLOW SUFFICIENT TIME FOR POSSIBLE REVISION AND RESUBMITTAL OF REJECTED SUBMITTALS. COORDINATE SUBMITTAL OF RELATED ITEMS.
6. REVISE AND RESUBMIT REJECTED SUBMITTALS AS REQUIRED TO OBTAIN APPROVAL, IDENTIFYING CHANGES MADE SINCE PREVIOUS SUBMITTAL.

B. PROGRESS AND VALUE SCHEDULES:
1. PROGRESS SCHEDULE: SUBMIT HORIZONTAL BAR CHART WITH SEPARATE BAR FOR EACH MAJOR TRADE OR OPERATION, IDENTIFYING FIRST WORK DAY OF EACH WEEK.
2. SCHEDULE OF VALUES:
a. SUBMIT TYPED SCHEDULE ON AIA FORM G703, OR OTHER FORM AS APPROVED BY THE TENANT.
b. SUBDIVIDE INTO EACH MAJOR TRADE OR CATEGORY OF WORK.
c. INCLUDE A LINE ITEM AMOUNT FOR EACH ALLOWANCE.
d. INCLUDE IN EACH LINE ITEM A DIRECTLY PROPORTIONAL AMOUNT OF CONTRACTOR'S OVERHEAD AND PROFIT.
3. SUBMIT PROGRESS AND VALUE SCHEDULES IN DUPLICATE WITHIN 5 DAYS AFTER NOTICE TO PROCEED.
4. SUBMIT REVISED SCHEDULES WITH EACH APPLICATION FOR PAYMENT; REVISED SCHEDULES SHALL REFLECT CHANGES, INCLUDING CHANGE ORDERS, SINCE PREVIOUS SUBMITTAL.

C. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES:
1. SHOP DRAWINGS:
a. NUMBER OF COPIES: UNLESS OTHERWISE SPECIFIED, SUBMIT TO THE TENANT ONE LEGIBLE RIGHT-READING VELLUM REPRODUCIBLE AND ONE COPY FOR REVIEW, EXCEPT THAT SHOP DRAWINGS 11"X17" OR SMALLER MAY BE SUBMITTED IN THE FORM OF TWO BLACKLINE OR ELECTROSTATIC BOND COPIES.
b. THE TENANT WILL RETURN ONE COPY TO CONTRACTOR WITH CORRECTIONS, NOTATIONS AND TENANT'S STAMP INDICATING ACTION TO BE TAKEN.
c. UNLESS SPECIFIED OTHERWISE, SHOP DRAWINGS SHALL SHOW QUANTITIES, MATERIALS, METHODS OF ASSEMBLY, ADJACENT CONSTRUCTION, DIMENSIONS, AND ALL OTHER APPROPRIATE INFORMATION TO FULLY ILLUSTRATE THE WORK.
2. PRODUCT DATA:
a. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA; SUPPLEMENT MANUFACTURE'S STANDARD DATA TO PROVIDE INFORMATION UNIQUE TO THE WORK.
b. SUBMIT THE NUMBER OF COPIES WHICH CONTRACTOR REQUIRES, PLUS 2 COPIES WHICH WILL BE RETAINED BY THE TENANT.
3. SAMPLES:
a. SUBMIT SAMPLES AS SPECIFIED IN THE TECHNICAL SECTIONS.
b. INCLUDE IDENTIFICATION ON EACH SAMPLE GIVING FULL INFORMATION.
c. SUBMIT THREE SAMPLES, ONE OF WHICH WILL BE RETAINED BY TENANT, UNLESS INDICATED OTHERWISE IN THE TECHNICAL SECTION.

D. CERTIFICATES: SUBMIT THE ORIGINAL SIGNED VERSION TO THE TENANT.

E. THE TENANT MAY FURNISH DOCUMENTS AND ELECTRONIC DATA WHICH MAY BE USED AS BASES FOR PREPARATION OF SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT DISTRIBUTION OF SUCH INFORMATION TO SUBCONTRACTORS AND SUPPLIERS. REQUEST DOCUMENTS BY SUBMITTING AN EXECUTED COPY OF THE "REQUEST FOR TRANSFER OF DOCUMENTS" FORM, ATTACHED AT THE END OF THIS SECTION. USE OF SUCH DOCUMENTS IMPLIES CONTRACTOR'S AND SUBCONTRACTORS' AGREEMENT TO THE TERMS DESCRIBED ON THE FORM. FULLY DESCRIBE REQUIREMENTS FOR EACH REQUEST.

014500 QUALITY CONTROL

A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.

B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.

C. PERFORM WORK WITH PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.

D. MOCK-UPS
1. PROVIDE MOCK-UPS AS SPECIFIED IN THE INDIVIDUAL SPECIFICATION SECTIONS. PROVIDE ADDITIONAL MOCK-UPS, AS REQUIRED BY THE TENANT, UNTIL APPROVAL IS OBTAINED.
2. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL APPROVAL OF THE MOCK-UP IS OBTAINED.
3. APPROVAL OF MOCK-UP SHALL BE THE STANDARD OF WORKMANSHIP AND MATERIALS FOR THE REMAINDER OF THE WORK SIMILAR TO THE MOCK-UP.
4. MAINTAIN MOCK-UP IN APPROVED CONDITION, UNTIL DIRECTED OTHERWISE.
5. UNLESS SPECIFIED OTHERWISE, REMOVE MOCK-UP AT COMPLETION, WHEN DIRECTED BY TENANT.

E. INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICT EXISTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS. NOTIFY THE TENANT IMMEDIATELY.

F. EXAMINATION PRIOR TO INSTALLATION:
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE TENANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

G. TESTING LABORATORY SERVICES:
1. THE TENANT WILL ARRANGE FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST THE WORK TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REPORTS OF ALL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE TENANT FOR REVIEW.
2. CONTRACTOR'S RESPONSIBILITIES:
a. COOPERATE WITH TESTING LABORATORY PERSONNEL, AND FURNISH ACCESS, TOOLS, SAMPLES, CERTIFICATIONS, TEST REPORTS, DESIGN MIXES, EQUIPMENT, STORAGE, AND ASSISTANCE AS REQUESTED BY THE TESTING LABORATORY.
b. NOTIFY TENANT AND TESTING LABORATORY 48 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED, THROUGH THE FAULT OF THE CONTRACTOR, REIMBURSE THE TENANT FOR THE ADDITIONAL COSTS INCURRED.
c. REMOVE AND REPLACE ALL WORK FOUND NOT COMPLYING WITH THE CONTRACT DOCUMENTS. REMEDIES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CODE REQUIREMENTS.
d. IF INITIAL TESTS AND INSPECTIONS INDICATE DEFICIENT WORK, THE CONTRACTOR SHALL REIMBURSE THE TENANT FOR THE COSTS OF ALL SUBSEQUENT TESTS AND INSPECTIONS RELATED TO THE DEFICIENCY.
e. ALL DAMAGE WHICH MAY OCCUR TO THE WORK AS A RESULT OF NORMAL TESTING OPERATIONS SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES.
f. SCHEDULE TESTING AND INSPECTION SO THAT THE WORK OF TESTING AND INSPECTION PERSONNEL WILL BE AS CONTINUOUS AND BRIEF AS POSSIBLE.
3. TESTS AND INSPECTIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.

015000 TEMPORARY FACILITIES AND CONTROLS

A. TEMPORARY UTILITIES: PROVIDE TEMPORARY UTILITIES, SERVICES, AND CONSTRUCTION AS REQUIRED TO PERFORM THE WORK. COORDINATE ALL TEMPORARY FACILITIES AND CONTROLS WITH THE TENANT.
1. ELECTRICITY: CONNECT TO EXISTING SERVICE. TENANT WILL PAY COSTS OF ENERGY USED. TAKE MEASURES TO CONSERVE ENERGY.
2. LIGHTING: PERMANENT LIGHTING MAY BE USED DURING CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY LIGHTING AS REQUIRED. MAINTAIN LIGHTING AND MAKE ROUTINE REPAIRS.
3. HEATING AND VENTILATION: PERMANENT SYSTEM MAY BE USED. THE TENANT WILL PAY FOR THE COST OF ENERGY USED. MAINTAIN SYSTEM DURING OPERATION.
4. WATER: UTILIZE EXISTING FACILITIES. TENANT WILL PAY FOR WATER USED.
5. SANITARY FACILITIES: PROVIDE AND MAINTAIN REQUIRED PORTABLE FACILITIES AND ENCLOSURES.

B. CONTROLS:
1. DUST CONTROL: PROVIDE POSITIVE METHODS AND APPLY DUST CONTROL MATERIALS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS, AND PROVIDE POSITIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO THE ATMOSPHERE.
2. WATER CONTROL: COMPLY WITH APPLICABLE JURISDICTIONAL REQUIREMENTS REGARDING WATER USAGE, CONSERVATION, DETENTION, POLLUTION, AND PERMITS.

C. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO SITE AND WITHIN SITE TO PROVIDE UNINTERRUPTED ACCESS:
1. TO TEMPORARY CONSTRUCTION FACILITIES, STORAGE AND WORK AREAS.
2. FOR USE BY PERSONS AND EQUIPMENT INVOLVED IN CONSTRUCTION OF PROJECT.
3. FOR USE BY EMERGENCY VEHICLES.
4. TO MINIMIZE IMPACT ON ADJACENT OPERATIONS.

D. FIRE SAFETY: COMPLY WITH APPLICABLE PROVISIONS OF UFC ARTICLE 87 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OPERATIONS.

E. TEMPORARY CONSTRUCTION:
1. OBTAIN APPROVAL FROM BUILDING OWNER FOR ALL MODIFICATIONS TO EXISTING SYSTEMS OR FACILITIES NOT INDICATED.
2. REMOVE TEMPORARY SYSTEMS OR FACILITIES WHEN USE IS NO LONGER REQUIRED. CLEAN AND REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF TEMPORARY SYSTEMS OR FACILITIES.

F. CONSTRUCTION CLEANING:
1. CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH. DAILY DISPOSE OF OFF-SITE OR IN APPROVED CONTAINERS ON SITE..
2. MAINTAIN AREAS FREE OF DUST AND OTHER CONTAMINANTS DURING FINISHING OPERATIONS.

016000 PRODUCT REQUIREMENTS

A. DELIVERY, STORAGE AND HANDLING:
1. TRANSPORT AND HANDLE PRODUCTS BY METHODS TO AVOID PRODUCT DAMAGE.
2. MANUFACTURED PRODUCTS SHALL REMAIN IN MANUFACTURER'S CONTAINERS OR PACKAGING, UNTIL READY FOR INSTALLATION.
3. UNLESS SPECIFIED OTHERWISE, STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. PRODUCT OPTIONS AND SUBSTITUTIONS:
1. WHERE SPECIFICATIONS INDICATE A SINGLE PROPRIETARY PRODUCT, SUBSTITUTIONS WILL NOT BE CONSIDERED. FURNISH PRODUCTS SPECIFIED, EXCEPT WHERE "OR APPROVED" IS USED.
2. SUBSTITUTIONS WILL BE CONSIDERED ONLY FOR THE FOLLOWING REASONS:
a. A PRODUCT BECOMES UNAVAILABLE DUE TO NO FAULT OF THE CONTRACTOR.
b. SUBSEQUENT INFORMATION OR CHANGES INDICATE THAT THE SPECIFIED PRODUCT WILL NOT PERFORM AS INTENDED.
3. DOCUMENT EACH SUBSTITUTION REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. REQUESTS FOR SUBSTITUTION SHALL BE MADE IN WRITING TO THE TENANT ON FORM APPROVED BY TENANT. LIMIT EACH REQUEST TO ONE PROPOSED PRODUCT OR SYSTEM. FOR SUBSTITUTIONS PRIOR TO AGREEMENT, SIGNATURE AND PROJECTED COST DATA ARE NOT REQUIRED.
4. A SUBSTITUTION REQUEST CONSTITUTES A REPRESENTATION THAT CONTRACTOR:
a. HAS INVESTIGATED PROPOSED PRODUCT AND HAS DETERMINED THAT IT MEETS OR EXCEEDS, IN ALL RESPECTS, THE SPECIFIED PRODUCT.
b. SHALL PROVIDE THE SAME WARRANTY FOR SUBSTITUTION AS FOR SPECIFIED PRODUCT.
c. WILL COORDINATE INSTALLATION AND MAKE OTHER CHANGES THAT MAY BE REQUIRED FOR WORK TO BE COMPLETE IN ALL RESPECTS.
d. WAIVES CLAIMS FOR ADDITIONAL COSTS THAT MAY SUBSEQUENTLY BECOME APPARENT.
e. AGREES TO PAY ALL COSTS OF REDESIGN RELATED TO THE SUBSTITUTION.
5. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS.
6. TENANT AND TENANT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME.

C. GENERAL PRODUCT INSTALLATION REQUIREMENTS: PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT OMIT ANY PREPARATORY STEP OR INSTALLATION PROCEDURE UNLESS SPECIFICALLY MODIFIED OR EXEMPTED BY CONTRACT DOCUMENTS.

017329 CUTTING AND PATCHING

A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.

B. PROVIDE A SMOOTH, EVEN, AND INVISIBLE TRANSITION TO NEW CONSTRUCTION. WHEN FINISHED SURFACES ARE CUT SO THAT AN INVISIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.

C. PATCHING OF EXISTING CONCRETE SLABS ON GRADE:
1. ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED.
2. REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTINUOUS VAPOR BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
3. RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
4. PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
5. FINISH CONCRETE TO MATCH ADJACENT SURFACES.

D. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE TENANT, PRIOR TO PROCEEDING.

017700 CLOSEOUT PROCEDURES

A. FINAL CLEANING:
1. THOROUGHLY CLEAN ALL SURFACES PRIOR TO FINAL ACCEPTANCE.
2. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE.

B. PROJECT RECORD DOCUMENTS:
1. MAINTAIN A COMPLETE SET OF RECORD DRAWINGS WHICH CLEARLY AND NEATLY INDICATE EXACT INSTALLED LOCATIONS OF ITEMS WHICH WILL BE CONCEALED IN THE WORK SUCH AS CONDUIT, PIPING, DUCTS, REINFORCING, MECHANICAL AND ELECTRICAL EQUIPMENT, AND SIMILAR ITEMS. SHOW ALL CHANGES FROM THE CONTRACT DOCUMENTS, AND ALL UNCOVERED EXISTING CONDITIONS WHICH WILL BE SUBSEQUENTLY CONCEALED.
2. RECORD DRAWINGS SHALL BE USED FOR NO OTHER PURPOSE AND SHALL BE STORED SEPARATELY FROM THOSE USED FOR CONSTRUCTION.
3. DOCUMENTS SHALL BE IN SAME FORMAT AS THE CONSTRUCTION DOCUMENTS.
4. KEEP DOCUMENTS CURRENT; DO NOT PERMANENTLY CONCEAL ANY WORK UNTIL REQUIRED INFORMATION HAS BEEN RECORDED.
5. AT CONTRACT CLOSEOUT, SUBMIT DOCUMENTS WITH TRANSMITTAL LETTER CONTAINING DATE, PROJECT TITLE, CONTRACTOR'S NAME AND ADDRESS, LIST OF DOCUMENTS, AND SIGNATURE OF CONTRACTOR.

C. SUBMITTALS: IN ADDITION TO SUBMITTALS REQUIRED BY THE CONDITIONS OF THE CONTRACT, AND SUBMITTALS REQUIRED BY SECTION 013300, FURNISH SUBMITTALS REQUIRED BY GOVERNING AUTHORITIES, AND SUBMIT A FINAL STATEMENT OF ACCOUNTING GIVING TOTAL ADJUSTED CONTRACT SUM, PREVIOUS PAYMENTS, AND SUM REMAINING DUE.

D. OPERATION AND MAINTENANCE DATA:
1. SUBMIT COMPLETE DATA FOR EACH PIECE OF EQUIPMENT AND COMPONENT USED IN THE WORK.
2. SUBMIT OPERATION AND MAINTENANCE DATA FOR MECHANICAL AND ELECTRICAL SYSTEMS.
3. ARRANGE IN A BINDER WITH A SECTION FOR EACH SYSTEM.

E. WARRANTIES, GUARANTEES AND BONDS:
1. SUBMIT ALL MANUFACTURER WARRANTIES.
2. FURNISH WRITTEN GUARANTEE, FROM EACH SUBCONTRACTOR PERFORMING WORK COVERED BY THE ADDITIONAL GUARANTEE REQUIREMENTS SPECIFIED IN THE TECHNICAL SECTIONS. UNLESS SPECIFIED OR APPROVED OTHERWISE, THE GUARANTEE SHALL COMMENCE ON THE DATE OF SUBSTANTIAL COMPLETION.
3. EACH GUARANTEE SHALL BE SIGNED, AND SHALL STATE THAT THE WORK UNDER GUARANTEE WAS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR THE PERIOD OF TIME SPECIFIED, AND THAT ALL DEFECTS WILL BE PROMPTLY REPAIRED WITHOUT ADDITIONAL COST TO THE TENANT.

F. SPARE PARTS AND MAINTENANCE MANUALS: FURNISH PRODUCTS, SPARE PARTS, AND MAINTENANCE MATERIALS IN QUANTITIES SPECIFIED IN EACH SECTION, IN ADDITION TO THAT USED FOR CONSTRUCTION OF WORK. COORDINATE WITH TENANT; DELIVER TO PROJECT SITE AND OBTAIN RECEIPT PRIOR TO FINAL PAYMENT.

DIVISION 2 – EXISTING CONDITIONS

024119 SELECTIVE DEMOLITION

A. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE THE WORK. WHERE DEMOLITION EXCEEDS THAT INDICATED, VERIFY SUCH DEMOLITION WITH THE ARCHITECT PRIOR TO PROCEEDING.

B. PROTECT EXISTING STRUCTURAL MEMBERS. CONTACT THE ARCHITECT PRIOR TO MODIFYING STRUCTURAL MEMBERS BEYOND THE EXTENT INDICATED. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF CONTINUED DEMOLITION OPERATIONS MIGHT ENDANGER THE EXISTING STRUCTURE.

C. DURING DEMOLITION OPERATIONS, NOTIFY THE ARCHITECT OF ALL CONDITIONS WHICH DIFFER SUBSTANTIALLY FROM THOSE INDICATED, SPECIFIED, OR EXPECTED. NOTIFY THE ARCHITECT IF PREVIOUSLY UNKNOWN OPERATIONAL, OR POTENTIALLY OPERATIONAL ELEMENTS, ARE UNCOVERED DURING DEMOLITION OPERATIONS. PERFORM NO DEMOLITION IN SUCH AREAS, UNLESS APPROVED BY THE ARCHITECT.

D. PROVIDE TEMPORARY SHORING AS REQUIRED TO SUPPORT EXISTING CONSTRUCTION AGAINST MOVEMENT OR OVERLOAD DURING DEMOLITION OPERATIONS, UNTIL PERMANENT SUPPORTS ARE IN PLACE.

E. EXCEPT WHERE NOTED OR SPECIFIED OTHERWISE, TAKE POSSESSION OF MATERIALS BEING DEMOLISHED, AND IMMEDIATELY REMOVE FROM SITE. DO NOT OVERLOAD EXISTING CONSTRUCTION TO REMAIN WITH DEMOLISHED MATERIALS.

F. CAREFULLY REMOVE, STORE, AND PROTECT ALL MATERIALS AND COMPONENTS TO BE REUSED.

G. WHERE POSSIBLE WITHOUT DAMAGE, REMOVE, STORE, AND PROTECT EXISTING MATERIALS AND COMPONENTS NOT NOTED FOR REMOVAL, WHICH IF REMOVED, WOULD FACILITATE THE NEW CONSTRUCTION AND RECONDITIONING.

H. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY THE TENANT FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE TENANT TO DETERMINE WHICH ITEMS WILL BE CLAIMED.

I. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.

J. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO ADDITIONAL COST TO THE TENANT.

K. UTILITY LINE DEMOLITION:
1. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO DEMOLITION.
2. ABANDONED UNDERSLAB CONDUIT SHALL BE CUT OFF BELOW THE FINISHED SURFACE LINE, AND ALL CONDUCTORS SHALL BE REMOVED. PATCH AND FILL THE OPENING FLUSH WITH THE FINISH.
3. ABANDONED ELECTRICAL CONDUCTORS SHALL BE REMOVED BACK TO THE BRANCH CIRCUIT PANEL, UNLESS INDICATED OTHERWISE. ABANDONED CONDUIT WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED CONDUIT WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN.
4. ABANDONED UNDERSLAB PIPING SHALL BE REMOVED AND CUT OFF FLUSH WITH THE FLOOR LINE. PATCH FLUSH WITH THE FLOOR.
5. ABANDONED PIPING WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED PIPING WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN. CAP ALL EXPOSED ENDS.
6. INDICATE LOCATION OF DISCONNECTED UTILITIES ON THE PROJECT RECORD DRAWINGS AS SPECIFIED IN SECTION 017700.

L. LEAVE SITE IN A CONDITION ACCEPTABLE TO THE TENANT AT ALL TIMES. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY AS WORK PROGRESSES. DO NOT OVERLOAD EXISTING STRUCTURE WITH DEMOLISHED MATERIALS.

DIVISION 3 – CONCRETE

030013 CONCRETE

A. SUMMARY: CAST-IN-PLACE CONCRETE, INCLUDING REINFORCING, ACCESSORIES, AND FORMWORK.

B. QUALITY ASSURANCE:
1. PERFORM WORK IN ACCORDANCE WITH ACI 301, UNLESS INDICATED OR SPECIFIED OTHERWISE.
2. SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO APPOINTED FIRM FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
3. CONCRETE WORK IS SUBJECT TO SPECIAL TESTING AND INSPECTION. NOTIFY ARCHITECT AT LEAST 48 HOURS BEFORE CONCRETE IS POURED.

C. SUBMITTALS:
1. SHOP DRAWINGS:
a. DETAIL REINFORCING IN ACCORDANCE WITH ACI 315. INDICATE REINFORCEMENT SIZES, SPACINGS, LOCATIONS AND QUANTITIES OF REINFORCING, BENDING AND CUTTING SCHEDULES, SPLICING, AND SUPPORTING AND SPACING DEVICES.
b. INDICATE EMBEDDED ITEMS.
c. SHOW CONCRETE CONFIGURATIONS.
d. SLAB LAYOUTS: DIMENSION LOCATIONS OF CONTROL, EXPANSION, AND CONSTRUCTION JOINTS. RELATE TO BUILDING GRID LINES.
2. PRODUCT DATA: SUBMIT DATA FOR EACH ACCESSORY, ADMIXTURE, AND CURING MATERIAL PROPOSED FOR THE WORK.
3. MIX DESIGNS: PRIOR TO CONCRETE WORK, SUBMIT MIX DESIGNS FOR APPROVAL.

D. MATERIALS:
1. UNLESS SPECIFIED OTHERWISE, CONFORM TO ACI 301.
2. CONCRETE MATERIALS:
a. CEMENT: ASTM C150, NORMAL – TYPE 1 PORTLAND CEMENT; GREY COLOR.
b. NORMAL WEIGHT FINE AND COARSE AGGREGATES: ASTM C33; SEVERE WEATHER EXPOSURE.
3. FLY ASH: ASTM C618, CLASS C OR F; LOSS ON IGNITION (LOI) NOT TO EXCEED 1 PERCENT. USE FLY ASH FROM ONE SINGLE SOURCE FOR THE WHOLE PROJECT.
4. FORM MATERIALS:
a. PLYWOOD: APA RATED HIGH DENSITY OVERLAY, PLYFORM CLASS 1. EXT. OR APA B-B PLYFORM CLASS 1, EXT.
b. FORM TIES: SNAP-OFF METAL; METAL WASHER ENDS.
c. CHAMFERS AND RUSTICATION STRIPS: WOOD OR PLASTIC; FABRICATE TO THE SHAPES INDICATED.
5. REINFORCING:
a. REINFORCING STEEL: ASTM C615, GRADE 40, UNLESS INDICATED OTHERWISE.
b. CHAIRS, BOLSTERS, BAR SUPPORTS, AND SPACERS: SIZED AND SHAPED FOR STRENGTH AND SUPPORT OF REINFORCEMENT DURING INSTALLATION AND PLACEMENT OF CONCRETE.
6. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
7. ADMIXTURES
a. AIR-ENTRAINMENT: ASTM C 260.
b. WATER REDUCER NORMAL: ASTM C 494, TYPE A.
c. ACCELERATOR: ASTM C 494, TYPE C OR E, NON-CORROSIVE, NON-CHLORIDE.
d. HIGH RANGE WATER REDUCER (SUPERPLASTICIZER): ASTM C 494, TYPE F OR G AND SHALL BE OF THE SECOND OR THIRD GENERATION TYPE. SHALL BE BATCH PLANT ADDED TO EXTEND PLASTICITY TIME, AND REDUCE WATER 20 TO 30 PERCENT.
e. FREEZE PROTECTION ADMIXTURE: ASTM C 494, TYPE E.
8. ACCESSORIES:
a. PREFORMED JOINT FILLERS: ASTM D1751; THE BURKE COMPANY "FIBER EXPANSION JOINT", OR APPROVED. AT JOINT LOCATIONS TO RECEIVE SEALANT USE BURKE "JOINT CAP", OR APPROVED, TO FORM RECESS AND BOND BREAK FOR SEALANT INSTALLATION.
b. BONDING AGENT: A TWO COMPONENT MOISTURE INSENSITIVE, 100% SOLIDS EPOXY ADHESIVE WITH A SHEAR BOND TO CONCRETE STRENGTH OF OVER 1400 PSI.
c. NON-SHRINK GROUTS: NON-CATALYZED NATURAL AGGREGATE GROUT; MINIMUM 7000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
d. FORM RELEASE AGENT: THAT WILL NOT BOND WITH, STAIN OR ADVERSELY AFFECT CONCRETE SURFACES, AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES WHEN APPLIED TO MOST FORMS OR FORM LINERS.
e. PREFABRICATED CONTROL JOINT: BURKE "PLASTIC ZIP STRIP JOINT FORMER", OR EQUAL.
f. CURING MATERIALS:
1) WATERPROOF SHEET MATERIAL: ASTM C171; MINIMUM 4 MIL POLYETHYLENE SHEET OR REINFORCED WATERPROOF KRAFT PAPER.
2) CURING COMPOUND: ASTM C309; CLEAR OR TRANSLUCENT WITH FUGITIVE DYE; MOISTURE LOSS NOT MORE THAN 0.055 GR./SQ.CM. WHEN TESTED IN ACCORDANCE WITH ASTM C156 AND APPLIED IN A SINGLE COAT AT THE MANUFACTURERS RECOMMENDED RATE. EUCLID CHEMICAL CO. "SUPERFLOOR COAT" OR "FLOORCOAT," OR APPROVED.

E. CONCRETE MIX:
1. MIX CONCRETE IN ACCORDANCE WITH ASTM C94, MINIMUM 3000 PSI 28 DAY COMPRESSIVE STRENGTH.
2. ALL CONCRETE SHALL CONTAIN THE SPECIFIED WATER REDUCING OR HIGH RANGE WATER REDUCING ADMIXTURE.
3. ALL SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES F SHALL CONTAIN THE SPECIFIED ACCELERATOR.
4. ALL CONCRETE REQUIRED TO BE AIR ENTRAINED SHALL CONTAIN AIR ENTRAINING ADMIXTURE TO PRODUCE 4% TO 6% AIR.
5. ALL ARCHITECTURAL CONCRETE, AND CONCRETE WITH A REQUIRED WATER/CEMENT RATIO OF 0.45 OR LOWER SHALL CONTAIN A SUPERPLASTICIZER.
6. ALL CONCRETE PLACED IN AMBIENT TEMPERATURES FROM 40 DEGREES F TO 20 DEGREES F SHALL CONTAIN A FREEZE PROTECTION ADMIXTURE AT THE MANUFACTURER'S REQUIRED DOSAGE.

F. FORMWORK ERECTION:
1. USE PLYWOOD FORMS, UNLESS SPECIFIED OR APPROVED OTHERWISE.
2. TOLERANCES: COMPLY WITH ACI 301, TABLE 4.3.1 – TOLERANCES FOR FORMED SURFACES.

G. REINFORCEMENT:
1. FABRICATE AS INDICATED AND IN ACCORDANCE WITH ACI 315.
2. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT.
3. LOCATE REINFORCING SPLICES NOT INDICATED ON THE DRAWINGS AT POINTS OF MINIMUM STRESS.

H. SUBSEQUENT TREATMENT FOR FORMED SURFACE:
1. SANDBLAST ARCHITECTURAL CONCRETE SURFACES. REMOVE SURFACE MORTAR ONLY FOR PAINT ADHERENCE. EXACT DEGREE OF BITE SHALL BE DETERMINED BY THE ARCHITECT.
2. WHERE FLUID APPLIED WATERPROOFING IS SCHEDULED OR INDICATED, GROUT FILL ALL ROCK POCKETS, TIE HOLES, AND OTHER SURFACE IMPERFECTIONS TO CREATE A SMOOTH SURFACE READY TO RECEIVE THE WATERPROOF MEMBRANE. GRIND CONCRETE FINS AND OTHER SURFACE PROJECTIONS FLAT WITH ADJACENT SURFACES.

I. SLABS:
1. EXPANSION JOINTS:
a. PLACE EXPANSION JOINTS WHERE EXTERIOR SLABS ABUT CONCRETE WALLS, THE BUILDING PERIMETER, AND OTHER FIXED OBJECTS ABUTTING OR WITHIN THE SLAB AREA. AT EXTERIOR SIDEWALKS, PLACE EXPANSION JOINTS AT MAXIMUM 20 FOOT INTERVALS UNLESS OTHERWISE INDICATED.
b. PLACE PERPENDICULAR TO LONGITUDINAL AXIS OF WALL AND CURBS.
c. FORM EXPANSION JOINTS WITH JOINT FILLER. RECESS JOINT FILLER 1/2 INCH BELOW FINISHED CONCRETE SURFACE TO RECEIVE SEALANT SPECIFIED IN SECTION 079200.
d. TOOL EXPANSION JOINTS TO 1/4 INCH RADIUS.
e. DISCONTINUE REINFORCING AT THE EXPANSION JOINT. USE GREASED OR SLEEVED REINFORCING AT THE JOINT.
2. CONTROL JOINTS:
a. MAKE JOINTS STRAIGHT; PERPENDICULAR OR PARALLEL TO BUILDING LINES AND SLAB EDGES, AS APPROPRIATE.
b. CONTROL JOINTS SHALL BE SAW CUT OR TOOLED, UNLESS INDICATED OTHERWISE.
c. RADIUS TOOLED CONTROL JOINTS TO MATCH EXPANSION JOINTS.
d. CONTROL JOINTS SHALL PENETRATE THE SLAB A MINIMUM OF 1/4 THE THICKNESS OF THE SLAB AND SHALL BE 3/16 INCH IN WIDTH MINIMUM; 1/4 INCH WIDTH IN SIDEWALKS.
e. LOCATE CONTROL JOINTS AT LOCATIONS INDICATED. WHEN NOT INDICATED, SPACE AT 32 TIMES THE SLAB DEPTH.
f. ALIGN JOINTS WITH COLUMN LINES WHEN EVER POSSIBLE. JOINTS SHALL FORM RECTANGULAR PANELS WITH THE LONG SIDE LESS THAN 1-1/2 TIMES THE LENGTH OF THE SHORT SIDE. PROVIDE CIRCULAR OR DIAMOND SHAPED JOINT LINES AROUND COLUMNS. LOCATE CONTROL JOINTS AT REENTRANT CORNERS. COORDINATE WITH PLACEMENT OF JOINTS IN TILE SURFACES.
3. CONSTRUCTION JOINTS: PLACE AT EITHER EXPANSION OR CONTROL JOINT LOCATIONS.
4. SLAB FINISHES:
a. FULL TROWEL FINISH: INTERIOR FLOOR SLAB SURFACES, UNLESS SPECIFIED OTHERWISE.
b. LIGHT STEEL TROWEL FINISH: INTERIOR FLOOR SLAB SURFACES SCHEDULED TO RECEIVE TILE, TERRAZZO, OR OTHER SIMILAR BONDED MATERIALS.
c. BROOM FINISH: EXTERIOR SLABS, SIDEWALKS, AND CURBS.
d. CURED SLABS INDICATED TO BE EXPOSED IN THE FINISH WORK SHALL BE RESURFACED AND FINISHED IN ACCORDANCE WITH SECTION 030103.
5. SLAB TOLERANCES: SLABS: CLASS B IN ACCORDANCE WITH ACI 301.

J. CURING:
1. MOISTURE CURE ALL CONCRETE FOR A MINIMUM OF 7 DAYS, UNLESS APPROVED OR SPECIFIED OTHERWISE.
2. A CURING COMPOUND MAY BE USED ON ALL EXTERIOR SLABS, SIDEWALKS, AND CURBS.
3. A CURING COMPOUND MAY BE USED ON SURFACES TO RECEIVE SUBSEQUENT BONDED FINISH MATERIALS, PROVIDED THE CURING COMPOUND IS APPROVED IN WRITING BY THE MANUFACTURER OF THE ADHESIVE OR THE BONDING FINISH MATERIAL. OR IS MECHANICALLY REMOVED PRIOR TO FLOOR INSTALLATION.
4. APPLY ALL CURING COMPOUNDS AND CURING COMPOUNDS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

030103 CONCRETE RESURFACING

A. SECTION INCLUDES:
1. PREPARING EXISTING CONCRETE.
2. APPLICATION OF CONCRETE DENSIFIER AND STAIN RESISTANT SURFACE TREATMENT .

B. SUBMITTALS:
1. PRODUCT DATA: SUBMIT MANUFACTURER'S LITERATURE FOR EACH PRODUCT LISTED.
2. VOC CERTIFICATION: SUBMIT CERTIFICATION THAT PRODUCTS FURNISHED COMPLY WITH REGULATIONS CONTROLLING USE OF VOLATILE ORGANIC COMPOUNDS (VOC).
3. CERTIFICATES: CERTIFICATES BY MANUFACTURER STATING THAT INSTALLER IS LISTED APPLICATOR OF SPECIAL CONCRETE FINISHES, AND HAS COMPLETED THE NECESSARY TRAINING PROGRAMS.
4. FLOOR PROTECTION PLAN.
5. CLOSEOUT SUBMITTALS: SUBMIT THE FOLLOWING:
6. a.MAINTENANCE INSTRUCTIONS: OPERATION AND MAINTENANCE INSTRUCTIONS FOR INSTALLED CONCRETE FLOORING PRODUCTS IN ACCORDANCE WITH DIVISION 1 CLOSEOUT SUBMITTALS SECTION. INCLUDE METHODS FOR MAINTAINING FINAL FINISH GLOSS AND CLEANLINESS OF CONCRETE SLAB SURFACE.

C. PROJECT CONDITIONS
1. ENVIRONMENTAL CONDITIONS: WHERE AMBIENT AIR TEMPERATURE DOES NOT FALL WITHIN THE RANGE OF 40 TO 90 DEGREES FAHRENHEIT, OR IN CONDITIONS WITH EXTREMELY HIGH RELATIVE HUMIDITY, SPECIAL APPLICATION PRODUCTS AND METHODS MAY BE REQUIRED. CONTACT MANUFACTURER FOR SPECIFIC JOB CONDITIONS AND TECHNICAL SUPPORT.
2. INSTALLER IS REQUIRED TO VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
3. PERMANENT LIGHTING SHALL BE IN PLACE AND OPERATIONAL PRIOR TO COMMENCEMENT OF THE WORK OF THIS SECTION.
4. VARIATIONS IN CONDITIONS MAY REQUIRE MODIFICATION TO PREPARATION AND INSTALLATION REQUIREMENTS; FAILURE TO VERIFY MODIFICATIONS MAY RESULT IN AN UNACCEPTABLE FINISH.

D. QUALITY ASSURANCE:
1. INSTALLER QUALIFICATIONS:
a. APPLICATOR TO BE FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF WORK OF THIS SECTION. APPLICATOR MUST HAVE AVAILABILITY OF PROPER EQUIPMENT TO PERFORM WORK WITHIN SCOPE OF THIS PROJECT ON A TIMELY BASIS. APPLICATOR SHOULD HAVE SUCCESSFULLY PERFORMED A MINIMUM OF 5 PROJECTS OF SIMILAR SCOPE AND COMPLEXITY.
2. PRE-INSTALLATION MEETING:
a. CONVENE BEFORE THE START OF WORK ON NEW CONCRETE SLABS, PATCHING OF EXISTING CONCRETE SLABS AND START OF APPLICATION OF CONCRETE FINISH SYSTEM.
b. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING WORK OF THIS SECTION, INCLUDING THE OWNER'S REPRESENTATIVE, CONTRACTOR, ARCHITECT, CONCRETE INSTALLER, AND APPLICATOR. MEETING SHOULD ONLY CONVENE WHEN REQUIRED PARTIES ARE PRESENT. REVIEW THE FOLLOWING:
1) PHYSICAL REQUIREMENTS OF COMPLETED CONCRETE SLAB AND SLAB FINISH.
2) LOCATIONS AND TIME OF TEST AREAS.
3) PROTECTION OF SURFACES NOT SCHEDULED FOR FINISH APPLICATION.
4) SURFACE PREPARATION.
5) APPLICATION PROCEDURE.
6) QUALITY CONTROL.
7) CLEANING.
8) PROTECTION OF FINISH SYSTEM.

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ARCHITECT
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Date: 2022.01.05 17:41:41 -05'00'

MOD LEES SUMMIT
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LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-901
ARCHITECTURAL SPECIFICATION

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

9) COORDINATION WITH OTHER WORK.
3. MOCK-UP: ON SITE, PRIOR TO THE FIRST APPLICATION OF THE DENSIFIER.
a. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING WORK OF THIS SECTION, INCLUDING THE CONTRACTOR, ARCHITECT, APPLICATOR, AND OWNER'S REPRESENTATIVE.
b. NOTIFY THE ABOVE PARTIES ONE WEEK IN ADVANCE OF DATE AND TIME WHEN MOCK-UP WILL BE COMPLETED.
c. DEMONSTRATE THE MATERIALS, EQUIPMENT AND APPLICATION METHODS TO BE USED FOR WORK SPECIFIED HEREIN IN PRE-APPROVED LOCATION APPROXIMATELY 50 SQ. FT. IN AREA OR AS DIRECTED BY [ARCHITECT][OWNER'S REPRESENTATIVE].
d. RETAIN APPROVED MOCK-UP DURING CONSTRUCTION AS A STANDARD FOR JUDGING THE COMPLETED WORK. AREAS MAY REMAIN AS PART OF THE COMPLETED WORK.
E. PRE-DENSIFIER CONCRETE CLEANER: CLEANER TO REMOVE DIRT, OIL, GREASE, AND OTHER STAINS FROM EXISTING SLAB SURFACE.
1. PRODUCT: CONSOLIDECK CLEANER/DEGREASER MANUFACTURED BY PROSOCO, INC., LAWRENCE, KS, (800) 255-4255, WWW.PROSOCO.COM.
F. PENETRATING DENSIFIER: "CONSOLIDECK LS/CS" BY PROSOCO, INC. (800-255-4255); NO SUBSTITUTIONS.
G. STAIN RESISTANT SURFACE TREATMENT: "CONSOLIDECK POLISH GUARD" BY PROSOCO, INC. (800-255-4255); NO SUBSTITUTIONS.
H. CONCRETE MAINTENANCE CLEANER: LITHIUM SILICATE CONCENTRATED MAINTENANCE CLEANER TO KEEP MAINTAIN CONCRETE SURFACE SHEEN AND REMOVE DIRT AND SOILS.
1. CONSOLIDECK LSKLEAN ULTRA 30, PRE-MEASURED 4 OZ PACKS, MANUFACTURED BY PROSOCO, INC.; NO SUBSTITUTIONS.
I. FLOOR MAINTENANCE PADS:
1. WHITE FLOOR MAINTENANCE PADS.
J. SPILL CLEAN-UP KIT: PROVIDE CRITICAL CLEANING ITEMS TO REMOVE SPILLS FROM CONCRETE FLOORS. SPILL CLEAN-UP KIT SHOULD INCLUDE THE FOLLOWING:
1. ONE QUART OF CONSOLIDECK CLEANER DEGREASER, ONE QUART OF CONSOLIDECK OIL AND GREASE REMOVER, TWO POUND SPILL GUARD NEUTRALIZER ABSORBENT, ONE PACKAGE OF MULTI ABSORBENT SHOP TOWELS, ONE SMALL PLASTIC SCRAPER, ONE HAND BROOM AND DUST PAN, A COLLAPSIBLE WARNING SIGN, 50 WASTE BAGS LINERS FOR 24 X 24 CAN LINER, AND ONE BOX OF GENERAL PURPOSE VINYL GLOVES.
K. EXAMINATION
1. EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH CONCRETE RESURFACING WILL BE PERFORMED FOR COMPLIANCE WITH REQUIREMENTS FOR APPLICATIONS OF FLOORING MATERIALS. DO NOT PROCEED WITH APPLICATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. START OF ANY OF THE RESURFACING WORK WILL BE CONSTRUED AS THE APPLICATOR'S ACCEPTANCE OF THE FLOOR AND ENVIRONMENT CONDITIONS.
2. CONDITION OF SUBSTRATE: VERIFY THAT ALL JOBSITE CONDITIONS ARE WITHIN THE PRODUCT MANUFACTURER'S DATA SHEET PARAMETERS. REPORT DISCREPANCIES TO THE ARCHITECT.
a. SURFACE TEMPERATURE OF SLAB MUST BE AT LEAST 40 DEGREES F. AND NO MORE THAN 90 DEGREES F. FOR CRACK AND JOINT FILLERS AND COATING.
b. IF THERE ARE ANY INDICATIONS OF A MOISTURE PROBLEM, CONTACT THE ARCHITECT.

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L. PREPARATION
1. COMPLY WITH THE CONCRETE COATING MANUFACTURER RECOMMENDATIONS AND AS FOLLOWS: PREPARED SURFACE SHALL BE SMOOTH AND FREE OF RIDGES AND IRREGULARITIES INCLUDING THOSE OCCURRING IN CONCRETE AND FROM MASTICS.
2. INITIAL CONCRETE SLAB PREPARATION: PROVIDE INITIAL PREPARATION OF CONCRETE SURFACE AS FOLLOWS.
a. REMOVE DIRT, OIL, SOAP, GREASE, MASTIC, AND OTHER BOND-BREAKING CONTAMINANTS.
b. SURFACE SHALL BE SMOOTH AND FREE OF UNWANTED RIDGES FROM BY EITHER MASTICS OR CONCRETE.
3. SURFACE REPAIR: FILL HOLES, SPALLS, CRACKS, VOIDS AND JOINTS AS RECOMMENDED BY THE SYSTEM MANUFACTURER WITH MINIMAL RESIDUE ON SURROUNDING SURFACE AND AS REQUIRED TO PROVIDE A SMOOTH, LEVEL AND EVEN SUBSTRATE.
a. SPALLS 1 TO 3 INCHES IN DIAMETER SHALL BE STRUCK FLUSH WITH PATCHING COMPOUND SPECIFIED IN SECTION 035416.
b. SPALLS LARGER THAN 3 INCHES IN DIAMETER AND AREAS REQUIRING LEVELING OR RESURFACING SHALL BE FILLED WITH SELF-LEVELING COMPOUND AS SPECIFIED IN SECTION 035416.
4. FINAL PREPARATION: SURFACES TO BE TREATED SHALL BE CLEAN, DRY AND ABSORBENT. CONFIRM SURFACE ABSORBENCY WITH A LIGHT WATER SPRAY. IF SURFACE DOES NOT WET UNIFORMLY, USE THE APPROPRIATE SURFACE PREPARATION METHOD FROM APPROVED MOCK-UP TO REMOVE REMAINING SURFACE CONTAMINANTS.
G. SANDING
1. SAND CONCRETE USING AN ORBITAL SANDER WITH 220-GRIT TO CREATE SUITABLE BONDING SURFACE FOR CONCRETE SEALER.
2. REPEAT SANDING PROCESS USING 400- OR 420 GRIT PAPER.
3. SAND ENTIRE SLAB, AS REQUIRED TO MATCH APPROVED MOCK-UP OR CONTROL SAMPLE.
4. PROVIDE SLAB SANDING AT ALL INSIDE CORNERS TO MATCH FLOOR FIELD AND APPROVED MOCK-UP OR CONTROL SAMPLE.
5. THE FINISHED SURFACE SHALL BE CLEAN AND POROUS WITH ABRADED ROUGHNESS OF LIGHT GRIT SANDPAPER.
6. THE SANDED FLOOR SHALL BE SWEPT USING A FINE-BRISTLED PUSH BROOM. AFTER BROOMING, VACUUM ENTIRE FLOOR TO REMOVE ALL DUST AND DEBRIS.
7. DAMP MOP AND/OR WET VACUUM AS NECESSARY TO ATTAIN A PROPERLY CLEANED SURFACE.
8. MAINTAIN SLAB FREE OF TRAFFIC BETWEEN SANDING AND APPLICATION OF CONCRETE COATINGS.
H. APPLICATION OF DENSIFIER
1. REMOVE ALL DIRT, DEBRIS, OR CURING COMPOUNDS USING SURFACE PREPARATION CLEANERS AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS. ALLOW CLEANING WATERS USED IN SURFACE PREPARATION TO DRY.
2. THE PREPARED SURFACE MUST WET UNIFORMLY. CONFIRM SURFACE ABSORBENCY WITH A LIGHT WATER SPRAY. IN HOT, DRY WEATHER, PRE-WET THE CONCRETE WITH FRESH WATER. ALLOW ANY STANDING WATER TO EVAPORATE.
3. APPLY A SINGLE COAT OF DENSIFIER USING A LOW PRESSURE SPRAYER FITTED WITH A 0.5 GPM SPRAY TIP. APPLY SUFFICIENT MATERIAL TO WET THE SURFACE WITHOUT PRODUCING PUDDLES. USE A CLEAN, SOFTBRISTLE PUSH BROOM OR MICROFIBER PAD TO SPREAD PRODUCT EVENLY AND ENSURE UNIFORM WETTING.
4. AVOID SPREADING ONCE DRYING BEGINS. SCRUBBING IS NOT NECESSARY. IF SURFACES DRY IMMEDIATELY, APPLY MORE PRODUCT. SURFACE SHOULD REMAIN WET FOR 5-10 MINUTES. ADJUST RATE OF APPLICATION TO ELIMINATE PUDDLES.
5. ALLOW TREATED SURFACES TO DRY.
6. REMOVE ANY DRIED POWDER RESIDUE USING STIFF BROOM, POWER SWEEPER OR FLOOR SCRUBBING MACHINE.
7. DO NO SUBSEQUENT BUFFING OR BURNISHING OF SLAB.
O. APPLICATION OF CONCRETE SEALER:
1. LIGHTLY WET A CLEAN MICROfiBER PAD WITH SEALER, LEAVING THE PAD DAMP.
2. SPRAY-APPLY SEALER USING A CLEAN, PUMP-UP SPRAYER fiTTED WITH A 0.5 GPM CONICAL OR FAN SPRAY TIP. WORK FROM ONE CONTROL JOINT TO ANOTHER.
3. SPREAD WITH THE DAMP MICROfiBER PAD. MAINTAIN A THIN, EVEN COATING AND WET EDGE. STOP SPREADING ONCE DRYING BEGINS. DO NOT OVERLAP.
4. USE TWO PEOPLE – ONE SPRAYING AND ONE SPREADING – FOR BEST RESULTS.
5. ALLOW TO DRY TACK FREE, TYPICALLY 20-60 MINUTES.
6. REPEAT STEPS 1-4 FOR A SECOND COAT.
7. DO NO FURTHER BUFFING OR BURNISHING OF CURED SEALER.
8. FINISH: PROVIDE UNIFORM FINISHED SATIN SURFACE FREE OF STREAKS AND MARKS.
P. FINISHING REQUIREMENTS:
1. INTERIOR EXPOSED FINISHED SLAB AREAS SHALL COMPLY WITH THE FOLLOWING:
a. SLAB SURFACE SHALL MEET THE DESIRED SHEEN, AS DISCUSSED IN PRE-INSTALLATION MEETING AND BE CONSISTENT WITH APPROVED MOCK-UP.
b. SLAB SURFACE SHALL HAVE A CONSISTENT LOOK AND EXHIBIT A FINISH THAT HAS NO EVIDENCE OF STREAKING OR BURNISH MARKS.
c. WHITE RESIDUE OR HAZY APPEARANCE IS NOT ACCEPTABLE.
d. EXPOSURE OF AGGREGATE BEYOND CPAA CLASS B- FINE AGGREGATE IS NOT ACCEPTABLE.
2. INTERIOR EXPOSED FINISHED SLAB AREAS SHALL CONSIST OF THE FOLLOWING CPAA GLOSS LEVEL:
a. FINISHED GLOSS LEVEL 2 – MEDIUM GLOSS APPEARANCE.
Q. CLEAN-UP
1. DURING PROGRESS OF WORK, REMOVE FROM SITE DISCARDED MATERIALS, RUBBISH, CANS AND RAGS AT END OF EACH WORK DAY.
2. UPON COMPLETION OF WORK, CLEAN SPATTERED SURFACES. REMOVE SPATTERED COATING BY PROPER METHOD OF WASHING AND SCRAPING, USING CARE NOT TO SCRATCH OR OTHERWISE DAMAGE FINISHED SURFACES.
R. PROTECTION
1. PROTECT COMPLETED CONCRETE COATING WORK AGAINST DAMAGE.
2. CLOSE APPLICATION AREA AFTER COMPLETION OF EACH STAGE FOR A MINIMUM OF 48 HOURS AND LONGER IF REQUIRED BY THE MANUFACTURER.
3. PROTECT COATINGS FROM GENERAL CONSTRUCTION WHEN TACK-FREE WITH ¼ INCH TEMPERED HARDBOARD, SMOOTH SIDE DOWN. REMOVE PRIOR TO COMPLETION OF PROJECT.
CORRECT DAMAGE BY CLEANING, REPAIRING OR REPLACING, AND REFINISHING, AS ACCEPTABLE TO THE ARCHITECT.

035416 HYDRAULIC CEMENT UNDERLAYMENT
A. SUMMARY:
1. CEMENTITIOUS UNDERLAYMENTS AS NECESSARY FOR LEVELING OF NEW OR EXISTING CONCRETE FLOOR SUBSTRATES, AS NECESSARY TO MEET SPECIFIED TOLERANCES.
2. CEMENTITIOUS TOPPINGS AS NECESSARY FOR LEVELING NEW OR EXISTING SLABS AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER ONLY.
3. RAMPS AND TAPERS AS NECESSARY TO ALIGN LEVELS BETWEEN DISSIMILAR FINISHES.
B. ENVIRONMENTAL REQUIREMENTS
4. MAINTAIN SURFACE AND AMBIENT TEMPERATURE OF BETWEEN 50 AND 80 DEGREES F FOR 24 HOURS BEFORE, DURING, AND 24 HOURS AFTER UNDERLAYMENT INSTALLATION.
5. KEEP TRAFFIC OUT OF AREA IN WHICH UNDERLAYMENT IS BEING APPLIED OR CURED.
C. UNDERLAYMENT AND TOPPING SYSTEMS:
1. SELF LEVELING UNDERLAYMENT SYSTEM: SELF-LEVELING, POURABLE, CEMENT BASED MATERIAL, MINIMUM 28 DAY COMPRESSIVE STRENGTH 2,000 PSI; MINIMUM BOND STRENGTH 200 PSI; ONE OF THE FOLLOWING AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS.
a. MAPEI CORPORATION "ULTRAPLAN 1" OR "NOVOPLAN 1 2."
b. ARDEX INC. "K-15" SELF-LEVELING UNDERLAYMENT CONCRETE
c. LATICRETE INTERNATIONAL, INC. "LATICRETE 86 LATILEVEL THIN POUR UNDERLAYMENT."
2. TROWELABLE UNDERLAYMENT SYSTEM: AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS:
d. MAPEI CORPORATION "MAPACEM 100" OR "PLANITOP 10".
e. ARDEX INC. "SD-P" FAST-SETTING UNDERLAYMENT.
f. LATICRETE INTERNATIONAL, INC. "LATICRETE 220 MEDIUM BED MORTAR MIXED WITH "LATICRETE 3701 LATEX MORTAR ADMIX."
3. CEMENTITIOUS TOPPINGS: FOR REPAIR OF CONCRETE SURFACES AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER OR NOT OTHERWISE COVERED BY FLOORING MATERIAL:
a. SELF-LEVELING TYPES:
1) MAPEI CORPORATION "ULTRATOP". SELF-LEVELING ABRASION-RESISTANT TOPPING.
2) ARDEX INC. "K-500" SELF-LEVELING CONCRETE TOPPING.
b. TROWELABLE TYPES:
1) MAPEI CORPORATION "MARECEM 100" FAST-SETTING TOPPING MORTAR
2) ARDEX INC. "CD" SELF-DRYING CONCRETE DRESSING.
D. ACCESSORIES: FURNISH PRIMERS, PATCHING COMPOUNDS, AND SAND FILLERS AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE CONDITIONS OF THE PROJECT.
E. THOROUGHLY MIX UNDERLAYMENT MATERIALS FOR EACH TYPE OF PRODUCT IN PROPER PROPORTIONS TO ACHIEVE SMOOTH HOMOGENEOUS MIX, FREE OF LUMPS.
F. PREPARATION
1. INSPECT FLOOR TO VERIFY THAT DEMOLITION IS COMPLETE TO THE POINT WHERE WORK MAY PROGRESS.
2. SURVEY FLOOR AS NECESSARY TO SET SCREEDS AND REFERENCE POINTS. IDENTIFY CONSTRUCTION JOINTS. PREPARE FOR UNDERLAYMENT AT ALL LOCATIONS WHERE FLOOR DOES NOT MEET SPECIFIED TOLERANCE REQUIREMENTS.
3. ENSURE THAT SUBFLOOR IS CLEAN, DRY, HARD, SOUND, AND FREE OF OILS, OR OTHER SUBSTANCE THAT WOULD AFFECT PROPER BONDING AND CURING.
4. VERIFY THAT ALL AREAS TO BE LEVELED ARE AT OR BELOW FINAL DESIGN ELEVATION. GRIND DOWN HIGH SPOTS AS NECESSARY TO MEET SPECIFIED TOLERANCE REQUIREMENTS.
G. APPLICATION
1. INSTALL TROWELABLE UNDERLAYMENT AT LOCATIONS WHERE SLOPES ARE INDICATED AND AT OTHER LOCATIONS WHERE TAPERED FILL IS NECESSARY TO ALIGN THE FINISHED SURFACES OF THE VARIOUS FLOOR FINISH MATERIALS.
2. INSTALL SELF-LEVELING UNDERLAYMENT AT EXISTING CONCRETE SLAB SURFACES TO CORRECT SLAB FLATNESS AND LEVELNESS.
3. PROVIDE CEMENTITIOUS TOPPINGS AT LOCATIONS TO REMAIN EXPOSED IN THE FINISHED WORK.
4. SET SCREEDS, MARKERS, AND REFERENCE BLOCKS. SET SCREEDS AT ALL CONSTRUCTION AND CONTROL JOINTS TO ESTABLISH WEAKENED PLANE JOINTS IN UNDERLAYMENT.
5. INSTALL UNDERLAYMENTS AND TOPPINGS IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. WHERE SUBSEQUENT FINISHING OF THE MATERIAL IS REQUIRED, FLOAT TO LEVEL SURFACE. DO NOT TROWEL.
6. APPLY PRIMER TO ALL AREAS TO RECEIVE UNDERLAYMENT AND TOPPINGS; REPEAT APPLICATIONS IF NECESSARY TO ACHIEVE PROPER BUILD.
7. MIX MATERIALS AND POUR OR PUMP AND SQUEEGEE INTO PLACE TO ACHIEVE APPROPRIATE THICKNESS. PROVIDE FILL THICKNESS AS NECESSARY TO FLOOR FINISHES WITH ADJACENT FLOOR SURFACES.
8. FINISH TO A SMOOTH UNIFORM SURFACE.
9. CURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
B. TOLERANCES:
1. VERY FLAT; LEVEL TO WITHIN 1/8" IN 10 FEET FF50, FL30 OVER LEST AREA; FF25, FL15 LOCAL MINIMUM.
2. RAMPS: 1/4" PER FOOT SLOPE.
H. CLEANING: AS WORK PROCEEDS, CLEAN UP EXCESS MATERIALS, RUBBISH, AND SPLASH.

DIVISION 4 – MASONRY

042113 BRICK MASONRY INFILL
A. SUMMARY:
1. FACE BRICK.
2. REINFORCEMENT, ANCHORAGES, AND ACCESSORIES.
3. RELATED FLASHING.
4. BUILDING PAPER.
B. SUBMITTALS:
1. SAMPLES:
a. BRICKS: MINIMUM THREE SAMPLES OF BRICK TYPE PROPOSED FOR THE WORK.
1) FURNISH SAMPLES FROM PROPOSED SUPPLY SOURCE.
2) SUBMIT QUANTITY OF BRICKS AS REQUIRED TO REPRESENT EXTREME RANGE OF COLOR AND FINISH OF BRICK TO BE FURNISHED.
3) WHERE CUSTOM SIZES ARE SPECIFIED, SUBMIT BRICK OF SIMILAR SIZE TO THAT TO BE FURNISHED.
b. MORTAR:
1) THREE CURED SAMPLES OF MORTAR PROPOSED FOR THE WORK.
2) FURNISH CURED SAMPLE OF APPROVED EXTERIOR MASONRY VENEER MORTAR TO SECTION 079200 FOR COLOR MATCHING.
2. SHOP DRAWINGS: INDICATE LOCATIONS AND CONFIGURATIONS OF BRICK, DIMENSION POINTS, LOCATIONS OF ALL FLASHINGS, CRITICAL DETAILS, REINFORCING, SPECIAL SHAPES, AND BRICK SCHEDULE.
3. PRODUCT LITERATURE: FOR ALL ACCESSORY COMPONENTS, MORTAR MIXES, AND ADDITIVES.
4. CERTIFICATIONS:
a. SUBMIT MANUFACTURER'S CERTIFICATE THAT MASONRY, AND REINFORCING, MEET OR EXCEED SPECIFIED REQUIREMENTS.
b. SUBMIT MANUFACTURER'S CERTIFICATION THAT MORTAR AND GROUT MEET THE SPECIFIED REQUIREMENTS.
C. ENVIRONMENTAL CONDITIONS
1. WET WEATHER: PROVIDE SUITABLE COVER OVER WORK EXPOSED TO WEATHER, PROTECT MATERIALS. MAINTAIN COVER OVER FINISHED WORK FOR 48 HOURS AFTER COMPLETION.
2. COLD WEATHER: WHEN OUTSIDE TEMPERATURE IS BELOW 40 DEGREES F, OR IS EXPECTED TO FALL BELOW FREEZING WITHIN 48 HOURS (WEATHER BUREAU FORECAST), HEAT MATERIALS AND PROVIDE SUITABLE ENCLOSURES TO MAINTAIN TEMPERATURES ABOVE 40 DEGREES F IN MASONRY WORK IN PLACE FOR 48 HOURS AFTER COMPLETION. OBTAIN APPROVAL OF METHODS OF PROTECTION BEFORE PROCEEDING.
D. MATERIALS:
1. BRICK:
a. CONFORM TO ASTM C216 TYPE FBX-JOBSITE, GRADE SW.
b. BRICK TYPES: MATCH EXISTING BRICKS.
c. PROVIDE SPECIAL SHAPES AS INDICATED.
2. MORTAR: ASTM C270, TYPE S OR M; CUSTOM COLOR TO MATCH EXISTING.
3. GROUT: IN ACCORDANCE WITH ASTM C476; 2000 PSI COMPRESSIVE STRENGTH.
4. ATTACHMENT SYSTEM FOR FRAMING:
a. FOR ATTACHMENT TO FRAMED WALLS: HOHMANN & BARNARD, INC. "DW-10 SEISMICLIP INTERLOCK SYSTEM", INCLUDING THE FOLLOWING:
1) ANCHOR: "DW-10" ATTACHMENT ANCHOR WITH NEOPRENE GASKET.
2) TIE: "BYNA-TIE," WITH "SEISMICLIP."
3) REINFORCING WIRE: CONTINUOUS 9 GAGE WIRE.
b. FINISHES: HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. FASTENERS: GALVANIZED; FOR ATTACHMENT OF FASTENING SYSTEM THROUGH SHEATHING INTO FRAMING.
6. FLEXIBLE FLASHING: W.R. GRACE "PERM-A-BARRIER" WALL FLASHING.
7. ROPE WEEPS: COTTON ROPE; 3/8 DIAMETER.
8. BUILDING PAPER: DUPONT "TYVEK," OR APPROVED.
9. CLEANING AGENT: ONE OF THE FOLLOWING AS RECOMMENDED BY THE BRICK MANUFACTURER AND THE CLEANER MANUFACTURER AS MOST APPROPRIATE FOR THE BRICK TYPE; PROSOCO, INC. "NO. 600 DETERGENT" OR PROSOCO, INC. "VANA TROL."
10. STAIN REMOVER: AS RECOMMENDED BY THE MANUFACTURER OF THE CLEANING AGENT.
E. MORTAR AND GROUT MIXING:
1. ADD APPROVED ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE UNIFORMITY OF MIX AND COLORATION.
2. DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR OR GROUT.
3. IF WATER IS LOST BY EVAPORATION, RETEMPER MORTAR WITHIN TWO HOURS OF MIXING. DO NOT RETEMPER MORTAR AFTER TWO HOURS OF MIXING.
4. USE NO LIME IN GROUT.
F. INSTALLATION:
1. BUILDING PAPER INSTALLATION:
a. SEQUENCE WITH INSTALLATION OF FLASHING.
b. INSTALL ONE PLY OF BUILDING PAPER OVER SHEATHING OR SUBSTRATE AS DETAILED. LAP VERTICAL JOINTS 8 INCHES, MINIMUM; WEATHERLAP HORIZONTAL JOINTS 4 INCHES, MINIMUM. FASTEN TO SUBSTRATE.
c. LAP OVER THROUGH-WALL FLASHINGS.
d. SEAL AROUND ALL PENETRATIONS.
e. SEAL TO EXISTING BUILDING PAPER WITH TAPE. LAP IN SHINGLE FASHION TO EXISTING. LAP 6 INCHES MINIMUM WITH EXISTING PAPER.
2. ANCHORAGE SYSTEM:
a. INSTALL ATTACHMENT SYSTEM AS INDICATED. WHERE NOT INDICATED, PLACE EACH ATTACHMENT ANCHOR AT 16 INCHES ON CENTER VERTICALLY ALONG EACH STUD FOR STUDS AT 16 INCHES ON CENTER.
b. COORDINATE WITH INSTALLATION OF FLASHING MATERIALS AND RELIEVING ANGLES.
c. FURNISH ADDITIONAL ANCHORS AT TOP COURSES, OPENINGS, CORNERS, AT EACH SIDE OF EXPANSION JOINTS, AND AT OTHER SPECIAL CONDITIONS.
d. SET TIES AND REINFORCING WIRE IN A BED OF MORTAR AND COVER WITH MORTAR FOR SECURE AND COMPLETE EMBEDMENT.
3. TIES:
a. INSTALL TIES AND ANCHORAGE CLIPS IN SEQUENCE WITH MASONRY INSTALLATION.
b. PROVIDE CONTINUOUS 9 GAGE REINFORCING WIRE ENGAGED INTO THE ANCHORAGE CLIPS. LAP 9 GAGE WIRE AS RECOMMENDED BY THE ANCHORAGE SYSTEM MANUFACTURER.
c. SET TIES AND REINFORCING WIRE IN A BED OF MORTAR AND COVER WITH MORTAR FOR SECURE AND COMPLETE EMBEDMENT.
4. COURSING:
a. PLACE MASONRY TO LINES AND LEVELS INDICATED.
b. MAINTAIN MASONRY COURSES TO UNIFORM HEIGHT.
c. LAY BRICK MASONRY UNITS IN RUNNING BOND TO MODULAR DIMENSIONS INDICATED. FORM TOOLED CONCAVE MORTAR JOINTS WHERE EXPOSED IN THE FINISHED WORK; CUT FLUSH AT CONCEALED LOCATIONS, INCLUDING JOINTS CONCEALED IN CAVITIES.
d. PROVIDE CLEANOUTS AT EACH COURSE SUPPORT AS NECESSARY TO MAINTAIN CAVITIES FREE OF DROPPINGS.
5. PLACING AND BONDING
a. LAY MASONRY IN FULL BED OF MORTAR, PROPERLY JOINTED WITH OTHER WORK. BUTTERING CORNERS OF JOINTS, AND DEEP OR EXCESSIVE FURROWING OF MORTAR JOINTS ARE NOT PERMITTED.
b. FULLY BOND INTERSECTIONS, AND EXTERNAL AND INTERNAL CORNERS.
c. DO NOT USE CHIPPED OR BROKEN UNITS.
d. DO NOT SHIFT OR TAP MASONRY UNITS AFTER MORTAR HAS TAKEN INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE MORTAR AND REPLACE.
e. REMOVE EXCESS MORTAR.
f. BONDING FRESH MASONRY TO SET, OR PARTIALLY SET, MASONRY:
1) REMOVE LOOSE MORTAR.
2) CLEAN AND LIGHTLY WET EXPOSED SURFACE OF SET MASONRY PRIOR TO LAYING FRESH MASONRY.
6. CUTTING AND FITTING:
a. CUT AND FIT MASONRY UNITS TO FORM THE CONFIGURATIONS INDICATED, AND AS REQUIRED TO FIT THE WORK OF OTHER SECTIONS. SAW MASONRY UNITS REQUIRING CUTTING WITH A MASONRY SAW. COORDINATE FULLY WITH OTHER SECTIONS OF WORK TO ENSURE CORRECT SIZE, SHAPE AND LOCATION.
b. CUT OR BLOCK OUT CHASES FOR OTHER TRADES AS DIRECTED BY OTHER TRADES AT TIME OF MASONRY WORK.
c. OBTAIN ARCHITECT'S REVIEW PRIOR TO CUTTING OR FITTING ANY AREA WHICH IS NOT INDICATED ON DRAWINGS, OR WHICH MAY IMPAIR APPEARANCE OR STRENGTH OF MASONRY WORK.
d. DO NOT CUT FACES EXPOSED TO WEATHER.
e. MITER CUT BRICKS IN SOLDIER COURSES AT OUTSIDE CORNERS.
7. FLEXIBLE FLASHING:
a. CLEAN SURFACE OF MASONRY SMOOTH AND FREE FROM PROJECTIONS WHICH MIGHT PUNCTURE OR OTHERWISE DAMAGE FLASHING MATERIAL.
b. INSTALL MEMBRANE FLEXIBLE FLASHING AS INDICATED, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
c. AT SUPPORT ANGLES, START FLEXIBLE FLASHING AT EXTERIOR EDGE OF SUPPORT ANGLE AND EXTEND OVER ANGLE AND UP ONTO SUBSTRATE A MINIMUM OF 1-1/2 INCHES ABOVE TOP OF ANGLE VERTICAL LEG.
d. DAM FLASHING AT EXPANSION JOINTS AND AT ENDS OF LINTELS, BY TURNING UP THE FLASHING A MINIMUM OF 4 INCHES.
e. SET BRICK OVER FLASHING IN A BED OF MORTAR.
8. WEEPHOLES:
a. PROVIDE WEEP OPENINGS IN HEAD JOINTS IN FIRST COURSE IMMEDIATELY ABOVE ALL FLASHING.
b. INSTALL ROPE WEEPS AT LOCATIONS INDICATED.
c. MAXIMUM SPACING: 2'-0" O.C.
d. KEEP WEEPHOLES AND AREA ABOVE FLASHING FREE OF MORTAR DROPPINGS.
9. EXPANSION/CONTROL JOINTS:
a. PROVIDE EXPANSION/CONTROL JOINTS AS INDICATED.
b. KEEP JOINTS CLEAR OF MORTAR.
c. PROVIDE EXPANSION JOINTS DIRECTLY BELOW RELIEVING ANGLES.
d. PROVIDE VERTICAL JOINTS AT ALL INSIDE CORNERS IN BRICK VENEER AND AT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS.
e. JOINT WIDTH: MATCH TYPICAL MORTAR JOINT.
f. INSTALLATION OF SEALANTS IS SPECIFIED IN SECTION 079000.
g. DO NOT CONTINUE MASONRY REINFORCING ACROSS EXPANSION/CONTROL JOINTS.
10. BUILD-IN WORK:
a. AS WORK PROGRESSES, BUILD-IN HOLLOW METAL FRAMES, WINDOW FRAMES, STEEL LINTELS, SHELF ANGLES, NAILING STRIPS, ANCHOR BOLTS, PLATES, AND OTHER SIMILAR ITEMS SUPPLIED BY OTHER TRADES.
b. BUILD-IN ITEMS PLUMB AND TRUE.
c. BED ANCHORS OF HOLLOW METAL FRAMES IN MORTAR JOINTS. FILL FRAME VOIDS SOLID WITH MORTAR. FILL MASONRY CORES WITH GROUT MINIMUM 12 INCHES FROM FRAMED OPENINGS.
d. DO NOT BUILD-IN ORGANIC MATERIALS WHICH WILL BE SUBJECTED TO ROT OR DETERIORATION.
11. AT THE END OF EACH DAYS WORK, STOP OFF HORIZONTAL RUNS BY STEPPING BACK EACH COURSE; TOOTHING IS NOT PERMITTED, EXCEPT AT TOOTHED CONTROL JOINTS, WHERE INDICATED.
12. CUT OUT DEFECTIVE JOINTS AND HOLES IN EXPOSED MASONRY AND REPOINT WITH MORTAR.
13. DRY BRUSH MASONRY SURFACE AFTER MORTAR HAS SET AT END OF EACH DAY'S WORK AND AFTER FINAL POINTING.
14. LEAVE WORK AREA AND SURROUNDING SURFACES CLEAN AND FREE OF MORTAR SPOTS, DROPPINGS, AND BROKEN MASONRY.
15. TOLERANCES:
a. MAXIMUM VARIATION FROM PLUMB:
1) IN LINES AND SURFACES OF COLUMNS, WALLS AND ARISES:
a) 1/4 IN. IN 10 FT.
b) 3/8 IN. IN ANY STORY OR 20 FT. MAXIMUM.
c) 1/2 IN. IN 40 FT.
2) FOR EXTERNAL CORNERS, EXPANSION JOINTS AND OTHER CONSPICUOUS LINES:
a) 1/4 IN. IN ANY STORY OR 20 FT. MAXIMUM.
b) 1/2 IN. IN 40 FT.
b. MAXIMUM VARIATION FROM LEVEL OR GRADES FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES, AND OTHER CONSPICUOUS LINES: 1/4 IN. IN ANY BAY OR 20 FT.
c. MAXIMUM VARIATION OF LINEAR BUILDING LINE FROM AN ESTABLISHED POSITION IN PLAN AND RELATED PORTIONS OF COLUMNS, WALLS AND PARTITIONS:
1) 11/2 INCH IN ANY BAY OR 20 FT. MAXIMUM.
2) 3/4 INCH IN 40 FT.
G. CLEANING:
1. PROTECT ADJACENT SURFACES FROM CLEANING OPERATIONS WITH PROTECTIVE COVERING.
2. REMOVE STAINS, EFFLORESCENCE, EXCESS MORTAR, AND OTHER DELETERIOUS MATERIALS IN ACCORDANCE WITH THE CLEANING AGENT AND STAIN REMOVER MANUFACTURER'S INSTRUCTIONS.
3. THE USE OF MURIATIC ACID FOR CLEANING MASONRY SURFACES IS PROHIBITED.

042115 ADHERED BRICK MASONRY VENEER
A. SUMMARY
1. SECTION INCLUDES:
a. MORTAR SET BRICK VENEER.
b. CEMENTITIOUS BACKER BOARD.
B. SYSTEM DESCRIPTION
1. THE SYSTEM CONSISTS OF EXTERIOR THIN BRICK VENEER ADHERED TO APPROVED BACKER BOARD MATERIAL WITH CEMENTITIOUS GROUT OR THIN-SET MORTAR.
2. APPEARANCE: DESIGN EXTERIOR ADHERED MASONRY SYSTEM TO CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING LOCATIONS OF JOINTS, SHAPES AND DIMENSION POINTS.
3. ADHERED MASONRY VENEER: ADHERED (MORTAR-SET) BRICK VENEER SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTION 1405.9.1 AND SECTIONS 6.1 AND 6.3 OF ACI 530 / ASCE 5 / TMS 402.
4. REQUIRED ADHESION: ADHESION DEVELOPED BETWEEN ADHERED BRICK VENEER UNITS AND BACKING SHALL HAVE A SHEAR STRENGTH OF AT LEAST 50 POUNDS PER SQUARE INCH (PSI) (0.34 MPA) BASED ON GROSS UNIT SURFACE AREA, OR SHALL BE ADHERED IN COMPLIANCE WITH ARTICLE 3.3C OF ACI 530.1 / ASCE 6 / TMS 602.
5. DYNAMICS: DESIGN THE SYSTEM TO ACCOMMODATE BUILDING DYNAMICS WITHOUT DAMAGE TO THE ADHERED BRICK VENEER, SEALING SYSTEMS, ANCHORAGES, FASTENING SYSTEMS, OR SURROUNDING CONSTRUCTION. BUILDING DYNAMICS IS DEFINED AS THE SINGULAR AND COMBINED EFFECT OF WIND AND SEISMIC MOVEMENT, THERMAL MOVEMENT, AND FLOOR OR ROOF DECK DEFLECTION.
a. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL BE CALCULATED AS A MAXIMUM STORY DRIFT OF .015 TIMES THE STORY HEIGHT.
b. MAXIMUM FLOOR OR ROOF DEFLECTION SHALL BE CALCULATED AS 1/2 INCH.
c. THERMAL MOVEMENT SHALL BE CALCULATED FOR A TEMPERATURE RANGE OF FROM -20 DEGREES F. TO +140 DEGREES F.
6. WATER PENETRATION: DESIGN EXTERIOR SYSTEM TO REMAIN WATERTIGHT UNDER FULL WIND LOAD CONDITIONS, OR PROVIDE SECONDARY MEANS OF PREVENTING WATER INFILTRATION.
C. REFERENCES
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
a. A108.5 – INSTALLATION OF CERAMIC TILE WITH DRY-SET PORTLAND CEMENT MORTAR OR LATEX-PORTLAND CEMENT MORTAR.
b. A108.10 – INSTALLATION OF GROUT IN TILEWORK.
c. A118.4 – LATEX-PORTLAND CEMENT MORTAR.
D. DEFINITIONS
1. EXPANSION JOINTS: UNLESS OTHERWISE DETAILED, EXPANSION JOINTS IN BRICK FIELDS ARE SEALANT-FILLED JOINTS TO ACCOMMODATE EXPANSION AND CONTRACTION OF BRICK AND POSSIBLE SUBSTRATE MOVEMENT AT SLAB CONTROL AND CONSTRUCTION JOINTS.
E. SUBMITTALS
1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
2. PRODUCT DATA: SUBMIT FOR EACH TYPE OF MORTAR, GROUT, ADDITIVE, ACCESSORY, BACKER BOARD, AND MEMBRANE PROPOSED FOR THE WORK.
3. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND BRICK FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.
4. GROUT SAMPLES: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.
F. GUARANTEE
1. IN ACCORDANCE WITH SECTION 017700, FURNISH FROM THE MORTAR AND GROUT MANUFACTURER, A FIVE YEAR WRITTEN GUARANTEE, EXECUTED TO THE OWNER, AGAINST FAILURE OF MORTAR AND GROUT MATERIALS.
G. BRICK MASONRY
1. MANUFACTURER: THE BELDEN BRICK COMPANY (CANTON, OH; 330-451-2031)
2. TYPE TBS; EXTRUDED THIN BRICK; SMOOTH TEXTURE; STANDARD DIMENSIONS.
3. "RUBIGO RED" SERIES.
4. PROVIDE CORNER PIECES, STRETCHER CAPS AND CORNER CAPS AS REQUIRED.
H. ACCESSORY MATERIALS
1. THINSET MORTAR: "GRANI/RAPID"OR "KERABOND" WITH "UNIVERSAL KERALASTIC" BY MAPEI CORP., "211 CRETE FILLER POWDER" WITH 4237 LATEX THIN-SET MORTAR ADDITIVE," BY LATICRETE INTERNATIONAL, INC., OR APPROVED.
2. CEMENTITIOUS GROUT:
a. STANDARD GROUT: "KERACOLOR" WITH "PLASTJOINTS" BY MAPEI CORP., OR "FLOOR JOINT AND GROUT FILLER" WITH "3701 LATEX MORTAR ADMIXTURE" AND "101 RAPID SET LATEX", BY LATICRETE INTERNATIONAL, INC.
b. COLORS: AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S STANDARD LINE.
3. CEMENTITIOUS BACKER BOARD AND ACCESSORIES:
a. BOARD: 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT PANEL, REINFORCED WITH GLASS FIBER MESH; GLASSCRETE INC."ORIGINAL WONDERBOARD 7/16," USG "DUROCK EXTERIOR," OR APPROVED.
b. TAPE FOR GLASS MESH BOARD: OPEN WEAVE GLASS MESH JOINT TAPE, SELF-ADHESIVE; 2-1/2 INCHES WIDE.
c. FASTENERS: MINIMUM 1-1/4 INCH THICKNESS; ROCK-ON S-12; COATED.
I. EXAMINATION
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
J. PREPARATION
1. CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, CURING AGENTS, AND OTHER MATERIALS THAT WOULD IMPAIR BOND.
K. CEMENTITIOUS BACKER BOARD INSTALLATION
1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.
3. ATTACH UNITS WITH SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.
4. SPACE BOARDS 1/8 TO 3/16 INCH APART. STAGGER BOARD JOINTS WITH THOSE OF ADJACENT ROWS. FILL JOINTS BETWEEN GLASS MESH PANELS WITH BONDING MORTAR, EMBED REINFORCING, COVER OVER WITH MORE BONDING MORTAR AND TROWEL SMOOTH.
L. INSTALLATION OF BRICK VENEER
1. WALL APPLICATION – CEMENTITIOUS BACKER UNIT:
a. TCA SYSTEM: SIMILAR TO W244.
b. INSTALLATION STANDARD: ANSI A108.5.
c. SETTING MATERIALS: THINSET MORTAR.
2. WALL APPLICATION – CONCRETE SUBSTRATE:
a. TCA SYSTEM: SIMILAR TO W202.
b. INSTALLATION STANDARD: ANSI A108.5.
c. SETTING MATERIALS: THINSET MORTAR 118.4.
3. JOINT PATTERN:
a. LAY OUT BRICK PATTERN PRIOR TO COMMENCING BRICK INSTALLATION.
b. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT BRICK AT FIELD EDGES.
c. WHERE CUT BRICK IS NECESSARY, POSITION BRICK SUCH THAT CUT BRICK AT EACH EDGE OF EACH RECTILINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT, UNLESS INDICATED OTHERWISE.
4. BLEND BRICK AS REQUIRED TO AVOID PATTERN REPEATS AND "PATCHES" OF ADJOINING TILES OF DISTINCTIVE COLOR OR CHARACTER WITHIN EACH FIELD AREA. COORDINATE DISTRIBUTION OF BRICK WITH THE ARCHITECT.
5. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.
6. PROVIDE TEMPORARY SETTING BUTTONS AND SHIMS AS NECESSARY TO MAINTAIN WALL BRICK IN POSITION UNTIL SETTING MORTAR HAS SET.
7. TOLERANCES:
a. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.
b. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.
c. NO PORTION OF A BRICK SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.
8. SPECIAL BRICK INSTALLATION REQUIREMENTS:
a. WASH BACKS OF EACH BRICK UNIT TO REMOVE ALL DUST AND SOIL WHICH WOULD COMPROMISE ADHESION.
b. DAMPEN SUBSTRATE AS NECESSARY TO PREVENT EXCESSIVE SUCTION.
c. APPLY MORTAR BOND COAT WITH NOTCHED TROWEL AS REQUIRED FOR PROPER LEVEL.
d. SET BRICK WITHIN TIME SPAN RECOMMENDED BY MORTAR MANUFACTURER.
e. SET BRICK IN ACCURATE ALIGNMENT. BEAT IN WITH A WOOD BLOCK, RUBBER HAMMER, OR TWIST AS NECESSARY TO LEVEL BRICK.
M. EXPANSION JOINTS
1. PLACE EXPANSION JOINTS AT MAXIMUM 15-FOOT INTERVALS FOR EXTERIOR INSTALLATIONS.
2. JOINT SIZES: SET TO MATCH WIDTH OF TYPICAL GROUTED JOINT; BUT IN NO CASE LESS THAN 1/4".
3. LEAVE EXPANSION JOINTS FREE OF MORTAR.
4. SEALANT MATERIALS AND INSTALLATION ARE SPECIFIED IN SECTION 079200.
N. GROUTING
1. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GROUT ALL JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.
3. REMOVE EXCESS GROUT FROM BRICK SURFACES IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.
4. PROTECT ADJACENT SURFACES FROM DAMAGE CAUSED BY CLEANING AGENTS. DO NOT USE CLEANERS THAT WOULD DAMAGE BRICK OR GROUT SURFACES.
5. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH BRICK EDGES.
O. CURING
1. CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT BRICK AND GROUT DURING CURING OPERATIONS.
P. PROTECTION
1. PROTECT BRICK INSTALLATIONS FROM DAMAGE, IN ACCORDANCE WITH SECTION 015000.
2. REPLACE ALL DAMAGED BRICK. PAY ALL ADDITIONAL COSTS INCURRED TO PROCURE ADDITIONAL BRICK MATERIALS.
Q. CLEANING
1. IN ACCORDANCE WITH SECTION 015000 AND SECTION 017700.
2. COORDINATE FINAL CLEANING WITH WORK OF SECTION 079200. DO NOT BEGIN CLEANING OPERATIONS UNTIL TILE EXPANSION JOINTS SEALANTS ARE FULLY CURED.
3. WASH AND THOROUGHLY RINSE ALL BRICK. LEAVE ALL BRICK SURFACES CLEAN.

DIVISION 5 – METALS

051200 STRUCTURAL STEEL FRAMING
A. SUMMARY: STRUCTURAL STEEL ELEMENTS AS INDICATED ON THE DRAWINGS.
B. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, ATTACHMENTS, FASTENERS, CAMBERS, AND LOADS.
b. INDICATE WELDED CONECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
2. CERTIFICATIONS: SUBMIT CERTIFICATION OF MATERIALS WITH COPIES OF MILL REPORTS FOR EACH HEAT OF STEEL USED.
C. QUALITY ASSURANCE:
1. UNLESS SPECIFIED OR INDICATED OTHERWISE, WORK SHALL COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, INCLUDING THE "COMMENTARY OF THE AISC SPECIFICATION."
2. THE WORK OF THIS SECTION IS SUBJECT TO TESTING AND INSPECTION.
3. USE ONLY AWS CERTIFIED WELDERS APPROVED BY JURISDICTIONAL AUTHORITIES.
D. MATERIALS:
1. STEEL PLATE, BARS, SHAPES: ASTM A36.
2. BOLTS AND NUTS: ASTM A307
3. ACCESSORIES:
a. WELDING MATERIALS: AWS D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
b. NON-SHRINK GROUT: MASTER BUILDERS "EMBECO," SONNEBORN "FERROLITH G," OR APPROVED.
4. PRIMERS:
a. STANDARD PRIMER: MODIFIED ALKYD; LEAD AND CHROMATE FREE; ONE OF THE FOLLOWING UNLESS APPROVED OTHERWISE.
1) "AZERON SERIES FD-88" BY TNEMEC COMPANY INC. (816-483-3400).
2) "AMERCOAT 5105" BY AMERON PROTECTIVE COATINGS (714-529-1951).
3) "MULTI-BOND 150" BY CARBOLINE (914-644-1000).
E. FABRICATION:
1. FABRICATE STRUCTURAL STEEL ITEMS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
2. SHOP FABRICATE IN PARTS OR SECTIONS AS LARGE AS PRACTICABLE.
3. ARCHITECTURAL STRUCTURAL STEEL ELEMENTS:
a. COMPLY WITH PROVISIONS OF AISC "CODE OF STANDARD PRACTICE" SECTION 10 "ARCHITECTURAL EXPOSED STRUCTURAL STEEL."
b. GRIND WELDS SMOOTH WITH ADJACENT SURFACES. GRIND BUTT WELDS FLAT AND PERPENDICULAR TO THE WELD DIRECTION.
c. MAKE EXPOSED JOINTS TIGHT, FLUSH, AND HAIRLINE.
d. FILL IMPERFECTIONS WITH PLASTIC AUTO BODY FILLER AS NECESSARY FOR A SMOOTH EVEN FINISH.
e. WELDS SHALL BE CONTINUOUS.
4. STANDARD SHOP PRIMER APPLICATION:
a. PREPARATION: REMOVE RUST AND SCALE BY WIRE BRUSHING, SCRAPING, AND SANDING DOWN TO BARE METAL IN ACCORDANCE WITH SSPC-SP2 AND SP3. WHERE SP2 AND SP3 MEASURES ARE INSUFFICIENT, PROVIDE COMMERCIAL BLAST CLEANING IN ACCORDANCE WITH SSPC-SP6.
b. APPLICATION: SPRAY APPLY PRIMER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, MIL MINIMUM DRY FILM THICKNESS.
c. SHOP PRIMER: SHOP PRIME ALL STEEL EXCEPT:
1) STEEL ENCASED IN CONCRETE.
2) SURFACES TO BE FIELD WELDED.
3) CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
4) MEMBERS TO BE GALVANIZED.
5) MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
6) SURFACES TO RECEIVE SPRAYED FIREPROOFING.
7) SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.]
F. ERECTION:
1. EMBEDDED ITEMS: FURNISH ANCHOR BOLTS AND TEMPLATES, AND OTHER ITEMS AS INDICATED, TO OTHER SECTIONS FOR INSTALLATION PRIOR TO PLACEMENT OF CONCRETE.
2. TEMPORARY SHORING AND BRACING: PROVIDE AS REQUIRED WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
3. TOLERANCES: MAXIMUM DEVIATION FORM PLUMB, LEVEL, AND ALIGNMENT SHALL NOT EXCEED 1 TO 500.
4. BASE PLATE GROUTING: SET ON LEVELING NUTS TO ACCURATE ELEVATIONS AND GROUT SOLID WITH NON-SHRINK GROUT.
5. TOUCH-UP PAINTING: IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS AND ABRADED AREAS. PAINT ALL EXPOSED SURFACES WITH SPECIFIED PRIMER.

055019 ARCHITECTURAL STEEL FABRICATIONS
A. SUMMARY: ARCHITECTURAL FABRICATIONS TO BE EXPOSED TO VIEW IN THE FINISHED WORK AND RECEIVING SPECIAL FINISH COATINGS. WORK UNDER THIS SECTION SHALL INCLUDE THE FOLLOWING:
1. METAL WALL PANELS.
2. SUPPORT BRACKETS.
3. WOVEN WIRE MESH.
4. STEEL TUBE RAILING.
5. STEEL SHELVES AND BRACKETS.
6. STEEL CAPS AND TRIM USED AT CASEWORK.
7. STEEL RAILINGS.
8. STEEL CORNER GUARDS.
9. STEEL FLAT BAR TRIM.
10. PREFABRICATED COMPONENTS
B. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES.
b. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.
c. INDICATE ADJACENT CONSTRUCTION.
d. INDICATE WELDED CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
2. SAMPLES: SUBMIT A STEEL TUBING CONNECTION WITH 12 INCH LEGS; SHOW WELDING AND STEEL FINISHING METHODS; INCLUDE PROPOSED FINISH COATING.
C. MATERIALS:
1. STEEL SHAPES, PLATES, AND BARS: ASTM A36.
2. STEEL TUBING: ASTM A500, GRADE B.
3. WELDING MATERIALS: AWS D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
4. STAINLESS STEEL: ASTM A167 TYPE 302 OR 304.
5. WOVEN WIRE MESH: TYPES AS SCHEDULED ON THE DRAWINGS.
6. CABLE AND FITTINGS:
a. CABLE: ASTM A167 TYPE 302/304 STAINLESS STEEL; 3/16" 7X7
b. FITTINGS: ASTM A167 TYPE 316 STAINLESS STEEL.
1) TOGGLE JAW: *TJ5, SWAGE END.
2) TURNBUCKLE: 8TT5JS; SWAGE END.
7. STAINLESS STEEL SHELVING AND BRACKETS: MINIMUM .0625 INCH THICK.
D. EXTERIOR FINISH MATERIALS:
1. MANUFACTURER: TNEMEC COMPANY INC. (KANSAS CITY, MO; 816-483-3400).
2. EPOXY PRIMER: TNEMEC SERIES 69 EPOXOLINE."
3. FINISH: AS SPECIFIED IN SECTION 099000.
E. PREFABRICATED COMPONENTS:
1. UNISTRUT: UNISTRUT CORPORATION (WAYNE, MI), OR APPROVED. FURNISH MANUFACTURER'S STANDARD COMPONENTS CORRESPONDING TO "P" NUMBERS INDICATED ON THE DRAWING. INCLUDE 1/4 INCH THICK STEEL CONNECTING HARDWARE, AND 1/2" DIAMETER BOLTS, NUTS, AND LOCK WASHERS.
F. FABRICATION:
1. SHOP ASSEMBLY:
a. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
b. FIT AND SHOP ASSEMBLE SECTIONS IN LARGEST PRACTICAL SIZES, FOR HANDLING.
c. GRIND EXPOSED WELDS FLUSH AND SMOOTH WITH ADJACENT FINISHED SURFACE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.

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MOD LEES SUMMIT
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LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-902
ARCHITECTURAL SPECIFICATION

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

d. MAKE EXPOSED JOINTS TIGHT, FLUSH, AND HAIRLINE.
e. FILL IMPERFECTIONS WITH PLASTIC AUTO BODY FILLER AS NECESSARY FOR A SMOOTH EVEN FINISH.
f. WELDS SHALL BE CONTINUOUS.

G. FABRICATION OF ELEMENTS TO RECEIVE GALVANIZED COATINGS:
1. FABRICATE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ASTM A143, A384, AND A385.
2. REMOVE WELDING SLAG AND BURRS PRIOR TO GALVANIZING.
3. AVOID FABRICATION TECHNIQUES WHICH COULD CAUSE DISTORTION OR EMBRITTLEMENT OF THE STEEL.

H. SPECIAL FABRICATION REQUIREMENTS:
1. BIDDER DESIGNED RAILINGS: COORDINATE WITH OTHER FABRICATORS AND INSTALLERS AS NECESSARY TO ACCOMMODATE INSTALLATION OF RAILING SYSTEMS.

I. SHOP FINISHES:
1. HOT DIP GALVANIZING:
a. STEEL FABRICATIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. BOLTS, NUTS, WASHERS, AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH A153.
b. SURFACE FINISH: THE GALVANIZED COATINGS SHALL BE CONTINUOUS, FIRMLY ADHERED, SMOOTH, AND FREE FROM DEFECTS.
c. LOCATIONS: PROVIDE HOT DIP GALVANIZING FOR ALL METAL FABRICATIONS IN EXTERIOR OR MOIST CONDITIONS, UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE APPROVED BY THE ARCHITECT, PLUG AND COLD GALVANIZE VENTILATION AND LIFTING HOLES WHICH WILL BE EXPOSED TO MOISTURE PENETRATION IN THE FINISHED WORK.
2. SHOP FINISHING OF NON-STAINLESS STEEL (CLEAR-COATED HOT-ROLLED STEEL):
a. USE HANDLING METHODS TO PRESERVE HOT ROLLED MILL SCALE TEXTURE AND BLUE-GRAY PATINA.
b. DO NOT CUT STEEL WITH A TORCH; CUT STEEL WITH A BLADE.
c. IF THE METAL IS SCRATCHED OR HAS A POOR PATINA DO THE FOLLOWING:
1) HEAT METAL TO 150° F TO ELIMINATE ANY WATER.
2) ALLOW TO COOL. REMOVE ANY SURFACE RUST WITH A SCOTCH BRITE PAD OR STEEL WOOL.
d. APPLY TWO COATS OF CLEAR URETHANE.
3. SHOP PRIMING OF PAINTED STEEL COMPONENTS:
a. PREPARE SURFACES IN ACCORDANCE WITH THE FINISH COAT MANUFACTURER'S RECOMMENDATIONS, AND AS SPECIFIED BELOW.
b. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1; ABRADE GALVANIZED SURFACES WITH A METAL PREPARATION PAD.
c. SPRAY APPLY PRIMERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY PRIMERS TO RECEIVE FIELD APPLICATION OF FINISH COATS AS SPECIFIED IN SECTION 099000.
d. EXCEPT FOR SURFACES INDICATED TO BE FIELD WELDED, COAT ALL SURFACES OF FABRICATION, WHETHER OR NOT EXPOSED TO VIEW IN INSTALLED POSITION.
e. MAINTAIN AT LEAST ONE COAT OF PRIMER AT ALL TIMES DURING INSTALLATION. IMMEDIATELY PATCH DAMAGED COATINGS.
f. FINISH COAT SHALL BE FREE OF DIRT, FLOW LINES, SAGS, BLISTERS, PINHOLES, AND OTHER SURFACE IMPERFECTIONS.
g. LOCATIONS: PROVIDE AT ALL EXTERIOR METAL FABRICATION EXPOSED TO VIEW, AND OTHER FABRICATIONS AS SCHEDULED. DO NOT PRIME SURFACES TO BE FIELD WELDED.

J. INSTALLATION:
1. INSTALL ALL WORK OF THIS SECTION SECURELY, IN ACCURATE ALIGNMENT, AND AS INDICATED ON THE DRAWINGS AND APPROVED SHOP DRAWINGS.
2. TOUCH-UP ALL SHOP PRIMING COATS DAMAGED DURING TRANSPORTATION AND ERECTION, USING THE PRIMING PAINT SPECIFIED FOR SHOP PRIMING.
3. ADHESIVELY APPLY STAINLESS STEEL PANELS TO PLYWOOD BACKER.

DIVISION 6 – WOOD AND PLASTIC

061000 ROUGH CARPENTRY

A. SUMMARY:
1. BLOCKING.
2. PLYWOOD TERMINAL BACKBOARDS.

B. QUALITY ASSURANCE:
1. REGULATORY REQUIREMENTS: WORK SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

C. DIMENSION LUMBER:
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH WWPA, WCLIB, NLGA, OR SPIB GRADING RULES.
2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.
3. SPECIES: HEM-FIR, SPRUCE-PINE-FIR (SPF), OR DOUGLAS FIR LARCH, UNLESS INDICATED OR SPECIFIED OTHERWISE.
4. ARCHITECTURAL LUMBER GRADES: UNEXPOSED NON-STRUCTURAL WOOD FRAMING AND BLOCKING INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE GRADED AS FOLLOWS:
a. BLOCKING AND NAILERS: "UTILITY – LIGHT FRAMING," OR BETTER.

D. PANEL MATERIALS:
1. PLYWOOD: APA RATED SHEATHING; CD GRADE; EXTERIOR; PLYWOOD; THICKNESSES AS INDICATED.
2. TERMINAL BACKBOARDS: APA AC GRADE EXTERIOR; FIRE RETARDANT TREATED.

E. ACCESSORIES:
1. FASTENERS:
a. HOT-DIPPED GALVANIZED STEEL FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS.

F. WOOD TREATMENT:
1. FIRE RETARDANT TREATMENT:
a. FIRE RETARDANT TREAT ALL INTERIOR CONCEALED LUMBER AND PLYWOOD, AND OTHER WOOD AS INDICATED OR SPECIFIED.
b. PRESSURE TREAT LUMBER IN ACCORDANCE WITH AWPA C-20 AND PLYWOOD IN ACCORDANCE WITH AWPA C-27.
c. ALL FIRE RETARDANT TREATED WOOD SHALL BEAR A UL "FR-S" LABEL, OR A LABEL FROM AN APPROVED INSPECTION AGENCY CERTIFYING THAT THE MATERIAL HAS A FLAME SPREAD RATING NO HIGHER THAN 25 WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TESTED IN ACCORDANCE WITH ASTM E84.
d. SITE TREAT SAWN ENDS WITH APPROVED FIRE RETARDANT TREATMENT.
e. APPROVED PRODUCTS:
1) INTERIOR FIREPROOFING PRODUCTS: CLEAR FINISH PRODUCT, HICKSON CORPORATION "DRICON", HOOVER TREATED WOOD PRODUCTS "PYRO-GUARD," OSMOSE WOOD PRESERVING CO. OF AMERICA, INC. "FLAME PROOF LHC," OR APPROVED.

G. BLOCKING: INSTALL WOOD BLOCKING TO RECEIVE MECHANICAL FASTENERS FOR SUPPORT OF PLUMBING AND ELECTRICAL FIXTURES AND EQUIPMENT, CABINETS, DOOR STOP PLATES, WOOD BASE, WAINSCOTS, COAT HOOKS, TOILET AND BATH ACCESSORIES, KITCHEN EQUIPMENT, AND ALL OTHER WALL AND CEILING MOUNTED COMPONENTS.

H. PLYWOOD TERMINAL BACKBOARDS:
1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.
2. MECHANICALLY APPLY DIRECTLY OVER GYPSUM BACKING BOARD.

064000 ARCHITECTURAL WOODWORK

A. SUMMARY:
1. WOOD STANDING AND RUNNING TRIM.
2. WOOD SCREEN WALL.
3. WOOD SLAT WALL AND CEILING PANELS.
4. CASEWORK.
5. CUSTOM SEAT CUSHIONS.
6. SHOP FINISHING.

B. REFERENCED STANDARDS
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
a. C1036 STANDARD SPECIFICATION FOR FLAT GLASS
b. E84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
2. AMERICAN PLYWOOD ASSOCIATION (APA)
3. ARCHITECTURAL WOODWORK INSTITUTE (AWI):
a. ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM (CURRENT EDITION).
4. WEST COAST LUMBER INSPECTION BUREAU (WCLB)
a. STANDARD GRADING RULES NO. 16
5. U.S. PRODUCT STANDARD (PS)
a. PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD

C. SUBMITTALS:
1. SHOP DRAWINGS. INDICATE MATERIALS, COMPONENTS, PROFILES AND CONFIGURATIONS, DIMENSIONS, FASTENING METHODS, JOINTING DETAILS, COLORS AND FINISHES, AND ACCESSORIES. DETAILS SHALL BE AT A MINIMUM SCALE OF 1-1/2 INCH PER FOOT.
2. SAMPLES:
a. SOLID WOOD WITH TRANSPARENT FINISH: SUBMIT A MINIMUM OF 3 – 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF COLOR AND GRAINING TO BE EXPECTED FOR EACH SPECIES, CUT, AND FINISH COMBINATION SPECIFIED. INCLUDE SAMPLES OF TRANSPARENT FINISH WITH PUTTY FILLED HOLES AND SPECIFIED FIELD APPLIED TOP COAT.
b. OPAQUE FINISH WOOD: SUBMIT A MINIMUM OF 3 – 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF GRAINING AND SURFACE IMPERFECTIONS TO BE EXPECTED.
c. PLASTIC LAMINATE: SUBMIT A MINIMUM 8 X 11 SAMPLE OF EACH COLOR AND PATTERN SPECIFIED.
3. PRODUCT LITERATURE: SUBMIT LITERATURE FOR A SAMPLE OF EACH HARDWARE COMPONENT PROPOSED.
4. CERTIFICATION: SUBMIT CERTIFICATION THAT THE FIRE RETARDANT TREATMENTS USED COMPLY WITH THE SPECIFIED REQUIREMENTS.

D. QUALITY ASSURANCE
1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.
2. ALL ARCHITECTURAL WOODWORK SHALL BE UNDER THE RESPONSIBILITY OF A SINGLE FABRICATOR.
3. QUALIFICATIONS OF INSTALLERS: USE ONLY JOURNEYMAN FINISH CARPENTERS WHO ARE THOROUGHLY TRAINED AND SKILLED IN THE WORK, AND WHO ARE COMPLETELY FAMILIAR WITH THE MATERIALS AND QUALITY STANDARDS SPECIFIED. NO ALLOWANCE WILL BE MADE FOR LACK OF SKILL ON THE PART OF WORKMEN.
4. CONFORM TO AWI CUSTOM GRADE STANDARDS UNLESS SPECIFIED OR INDICATED OTHERWISE.
5. MOCK-UPS: FABRICATE ONE CASEWORK COMPONENT TO RECEIVE TRANSPARENT FINISH AND ONE COMPONENT TO RECEIVE OPAQUE FINISH; COMPLETE WITH HARDWARE AND ALL ELECTRICAL AND MECHANICAL COMPONENTS; AND FINISHED AS SPECIFIED. COMPONENTS SHALL BE SELECTED BY ARCHITECT. COMPONENTS SHALL BE USED TO ESTABLISH LEVEL OF QUALITY FOR THE WORK OF THIS SECTION. COMPONENTS APPROVED BY ARCHITECT MAY BE INCORPORATED INTO THE WORK.

E. MATERIALS:
1. LUMBER:
a. MOISTURE CONTENT: OPTIMUM MOISTURE CONTENT PER AWI RECOMMENDATIONS.
b. TRANSPARENT FINISH LUMBER: TYPES AS SCHEDULED ON THE DRAWINGS.
c. CONCEALED FRAMING LUMBER: AWI GRADE II PINE, FIR, HEMLOCK, OR OTHER SPECIES AS APPROVED.
2. PLYWOOD: APA RATED IN ACCORDANCE WITH PS 1; 3/4 INCH THICK AC EXTERIOR GRADE UNLESS INDICATED OR SPECIFIED OTHERWISE; TOUCH SANDED WHERE PLASTIC LAMINATE VENEERS ARE TO BE APPLIED.
3. HARDWOOD PLYWOOD: STATES INDUSTRIES (EUGENE, OR 800_843_2753) "APPLE PLY"; GRADE A, 1/16 INCH ALDER VENEER CORE; (9 PLY FOR 1/2 INCH THICKNESS, 13 PLY FOR 3/4 INCH THICKNESS); BIRCH VENEER FACES, PLAIN SLICED.
4. PARTICLE BOARD: ANSI A208.1; GRADE M-2 WHERE INDICATED OR SPECIFIED, FIRE RETARDANT TREATED TO A FLAME SPREAD OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE QUALITY ASSURANCE STAMP OR MANUFACTURER'S CERTIFICATIONS AS REQUIRED BY LOCAL JURISDICTIONAL CODE AUTHORITIES.
5. MEDIUM DENSITY FIBERBOARD (MDF): ANSI A208.2 CLASS MD; EXTERIOR GLUE; FORMALDEHYDE FREE.
6. PRE-FINISHED BOARD: LOW PRESSURE MELAMINE OVER PARTICLE BOARD, MDF, OR HARDBOARD CORE; FORMALYDEHYDE FREE; COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.
7. PLASTIC LAMINATE:
a. BRANDS AND COLORS AS SCHEDULED ON DRAWINGS.
b. EXPOSED: NEMA LD-3; GENERAL AND VERTICAL GRADE,
c. BACKING SHEETS: NEMA LD-3; BACKING GRADE; UNDECORATED.
8. SIMULATED STONE:
a. MANUFACTURER: "GRENITE" BY GSS, LLC (METUCHEN, NJ; 732-549-2866).
b. PATTERN/COLOR AS SCHEDULED ON THE DRAWINGS.
c. CUSTOM 3 CM THICKNESS.

F. ACCESSORY MATERIALS:
1. CABINET HARDWARE:
a. PULLS: 4 INCH WIRE PULLS; BRUSHED CHROME FINISH.
b. DRAWER SLIDES: DRAWER SLIDES: FULL EXTENSION BALL BEARING; CLEAR ZINC FINISH; RAIL MOUNT; ACCURIDE, OR APPROVED; LOAD RATING AS REQUIRED FOR THE APPLICATION.
1) LIGHT DUTY RATING (DRAWERS 12 INCHES WIDE OR LESS): ACCURIDE 2632; 65 LB BIFMA LOAD RATING
2) MEDIUM DUTY RATING(DRAWERS 32 INCHES WIDE OR LESS): ACCURIDE 7432; 100 LB BIFMA LOAD RATING.
3) HEAVY DUTY RATING (DRAWERS 42 INCHES WIDE OR LESS): ACCURIDE 3640; 200 LB BIFMA LOAD RATING.
c. DRAWER LOCKS: CORBIN OR APPROVED; CAM LOCKS TO SUIT CONDITION; KEYED ALIKE AS DIRECTED, AND MASTERKEYED; FURNISH TWO KEYS FOR KEYED ALIKE GROUP, AND FOUR MASTERKEYS; FINISH TO MATCH PULLS.
d. CONCEALED HINGES: EUROPEAN STYLE; CONCEALED; SELF-CLOSING; 125 DEGREE OF OPENING, BLUM, GRASS OR HAFELE.
e. CATCH: IVES 327 A92 MAGNETIC CATCH.
f. CABINET SHELF STANDARDS AND BRACKETS: ZINC PLATED; KNAPE AND VOGT NO. 255 AND 256
g. LEVELERS: CAPITOL #1886, OR EQUAL.
h. WIRING GROMMETS: DOUG MOCKETT AND COMPANY, INC. "TG" SERIES, OR APPROVED; SIZE TO MATCH APPLICATION; COLOR AS SELECTED BY ARCHITECT FORM MANUFACTURER'S STANDARD COLORS.
2. WALL SHELF HARDWARE:
a. BRACKETS: KNAPE & VOGT NO. 185 ANOCHROME FINISH; LENGTH AS APPROPRIATE FOR SHELVING INDICATED.
b. STANDARDS: KNAPE & VOGT #85 ANOCHROME FINISH.
3. CONTACT BOND ADHESIVE: WATER BASED TYPE.
4. BANQUETTE CUSHIONS
a. SEAT CUSHION:
1) 2.7# DENSITY FOAM WITH A COMPRESSION RATING OF 40
2) WRAP FOAM FULLY IN 1/2 OZ. FIRE RETARDANT TREATED DACRON.
b. FABRIC: AS LISTED IN THE FINISH LEGEND.
c. CUSHION FABRICATION:
1) COVER FOR TIGHT AND SMOOTH APPEARANCE.
2) FABRICATE FOR TIGHT FIT BETWEEN CUSHIONS AND ADJACENT CONSTRUCTION.
3) PROVIDE BOXED EDGE WITH LUGGAGE STITCH SEAMS.
4) PROVIDE HEAT RESISTANT ZIPPER ALONG LENGTH OF CUSHION AT THE BACKSIDE.
d. CUSHIONS SHOULD BE REMOVABLE FOR CLEANING.
e. ATTACH LOOP PORTIONS OF WOVEN STYLE NYLON HOOK AND LOOP (VELCRO) FASTENER SECTION TO ALIGN WITH HOOK SECTIONS MOUNTED ON THE SUBSTRATE.

G. STANDING AND RUNNING AND TRIM FABRICATION:
1. SHOP CUT AND MILL ALL LUMBER TO THE SHAPES INDICATED.
2. SHOP FIT AND ASSEMBLE TO THE GREATEST EXTENT POSSIBLE.
3. MILL AND ASSEMBLE BUILT-UP SECTIONS. ALL GLUE LINES SHALL BE FREE OF SQUEEZE-OUT WHERE TRANSPARENT FINISHES ARE TO BE APPLIED.
4. TOLERANCES FOR OVERALL ASSEMBLY DIMENSIONS SHALL BE WITHIN 1/32 OF AN INCH.
5. FABRICATE FRAMES FROM SINGLE LENGTH PIECES, WITHOUT JOINTS, FOR EACH STRAIGHT LENGTH.
6. FABRICATE FROM EACH SECTION FROM SOLID STOCK, EXCEPT COMPOSITE CONSTRUCTION CONSISTING OF FABRICATOR SELECTED SOLID WOOD CLAD WITH SPECIFIED TRANSPARENT FINISH VENEER MAY BE USED. EXPOSED EDGES SHALL CONSIST OF MINIMUM 1/8 INCH THICK SOLID WOOD TO MATCH THE VENEER.
7. FABRICATE TO RECEIVE GLAZING WITH PROPER CLEARANCES FOR EXPANSION AND CONTRACTION.
8. BACK OR KERF CUT ALL TRIM GREATER THAN 2 INCH IN WIDTH, EXCEPT TERMINATE BEFORE EXPOSED ENDS.

H. CASEWORK FABRICATION:
1. GENERAL FABRICATION REQUIREMENTS:
a. FABRICATE TO THE CONFIGURATIONS INDICATED, UNLESS APPROVED OTHERWISE ON THE SHOP DRAWINGS.
b. PROVIDE OPENINGS IN CASEWORK FOR THE INCORPORATION OF ALL ELECTRICAL AND MECHANICAL COMPONENTS. OPENINGS FOR ALL PLUMBING EQUIPMENT SHALL BE CUT FROM TEMPLATES OBTAINED FROM THE PLUMBING EQUIPMENT INSTALLER.
c. PROVIDE CONCEALED ACCESS TO CASEWORK ELECTRICAL FIXTURES AND WIRING.
d. UNLESS INDICATED OR APPROVED OTHERWISE, PROVIDE ADJUSTABLE BASE TO PROVIDE LEVEL INSTALLATION WHICH ACCOMMODATES VARIATIONS IN FLOOR LEVELNESS.
e. SHOP ASSEMBLE CASEWORK TO THE GREATEST PRACTICAL EXTENT
f. ADJUSTABLE SHELVES: ALL CASEWORK SHELVES SHALL BE ADJUSTABLE, UNLESS OTHERWISE NOTED. PROVISIONS FOR SHELF ADJUSTMENT SHALL BE BY DRILLINGS AT 2 INCHES ON CENTER IN THE CABINET BODY FOR THE PLACEMENT OF SHELF SUPPORT BRACKETS. PROVIDE 4 SUPPORTS FOR EACH SHELF. DRILLINGS SHALL BE IN STRAIGHT EVEN LINES.
g. PROVIDE ALL HARDWARE, FASTENERS, AND EXPOSED TRIM.
2. PLASTIC LAMINATE CASEWORK CONSTRUCTION:
a. FABRICATE CASEWORK IN ACCORDANCE WITH AWI STANDARD SECTION 400; CUSTOM GRADE.
b. DESIGN: AWI FLUSH OVERLAY DESIGN, UNLESS INDICATED OTHERWISE. JOINT BETWEEN EXPOSED DOORS, DRAWER FACES, AND COUNTERTOP EDGES SHALL BE 1/8 INCH PLUS OR MINUS 1/16.
c. EXPOSED SURFACES: PLASTIC LAMINATE CLAD WITH SELF EDGING, UNLESS OTHERWISE INDICATED; PROVIDE HARDWOOD TRIM AT LOCATIONS INDICATED.
d. "INSIDE" EXPOSED SURFACES OF SHELVING UNITS AND CABINETS WITHOUT DOORS: PLASTIC LAMINATE FINISHED BOARD, WITH EXPOSED EDGES BANDED WITH PLASTIC LAMINATE SELF EDGING OR PVC TAPE TO MATCH FACE COLOR.
e. SEMI-EXPOSED SURFACES: PREFINISHED BOARD, UNLESS INDICATED OTHERWISE.
f. PROVIDE VERTICAL GRADE PLASTIC LAMINATE, EXCEPT USE GENERAL PURPOSE GRADE AT COUNTERTOPS.
g. BACKS OF DOORS AND DRAWERS: PREFINISHED BOARD.
h. PARTICLE BOARD SHALL BE MINIMUM 3/4" THICK UNLESS INDICATED OTHERWISE. SHELVES SHALL BE 1" THICK, MINIMUM.
3. PLANK PANELING: CEDAR PLANK; STRAIGHT EDGE; AWI "PREMIUM" GRADE; 5-1/2 INCH WIDE BY 1-1/4 INCH THICK.
4. FLAT PANEL FABRICATION
a. FABRICATE PANELING TO AWI "PREMIUM" GRADE STANDARDS.
b. FABRICATE PANELS WITH HARDWOOD PLYWOOD CORE UNLESS INDICATED OTHERWISE.
c. PROVIDE SOOTH EDGES WITH NO EDGE TRIM.
d. PANELS SHALL HAVE WOOD VENEER BALANCE SHEETS WITH SEAL COAT ON THE BACK OF EACH PANEL.
e. FABRICATE PANELS WITH JOINTS ACCURATELY MATCHED, TIGHTLY FITTED.
5. TRANSPARENT FINISH WOOD CASEWORK CONSTRUCTION:
a. FABRICATE TRANSPARENT FINISH WOOD CASEWORK IN ACCORDANCE WITH AWI STANDARD SECTION 400; "PREMIUM" GRADE.
b. FABRICATE WOOD CASEWORK WITH WOOD VENEER OVER MEDIUM DENSITY PARTICLE BOARD. PROVIDE SOLID WOOD EDGING AT VENEER PANELS.
c. VENEERS SHALL BE AS FOLLOWS:
1) FABRICATE EACH PANEL FROM SEQUENTIAL FLITCHES.
2) BOOK MATCH VENEERS.
3) PROVIDE NO VENEER END JOINTS WITHIN EACH PANEL.
4) PROVIDE GRAIN DIRECTION AS INDICATED.
d. WHERE VENEERS ARE INDICATED TO BE SINGLE PIECE OR SLIP MATCHED LEAVES FOR EACH PANEL, ADJOINING PANELS SHALL BE END MATCHED AND/OR SLIP MATCHED AS APPROPRIATE.
6. PLASTIC LAMINATE COUNTERTOPS:
a. FABRICATE COUNTERTOPS FROM PARTICLE BOARD AND GENERAL PURPOSE GRADE PLASTIC LAMINATE IN THE SHAPES INDICATED.
b. WHERE COUNTERTOPS ARE INDICATED WITH SINKS, USE EXTERIOR GRADE PLYWOOD IN LIEU OF PARTICLE BOARD.
7. STAINLESS STEEL COUNTERTOPS AND BACKSPLASHES:
a. FABRICATE FROM MINIMUM 16 GAGE TYPE 304 OR 316 STAINLESS STEEL TO THE CONFIGURATIONS INDICATED.
b. FABRICATE EACH COUNTERTOP IN ONE PIECE TO THE GREATEST EXTENT POSSIBLE.
c. PROVIDE WELDED SEAMLESS CORNERS AND JOINTS; GRIND ALL WELDS SMOOTH TO MATCH ADJACENT SURFACES.
d. PROVIDE TURNED DOWN FRONTS AND EXPOSED SIDES; INTEGRAL BACK SPLASHES WITH 3/8 INCH RADIUS.
e. FABRICATE COUNTERTOPS WITH THREE FORMED STAINLESS STEEL CHANNELS WELDED UNDERNEATH FOR SUPPORT.
f. SPRAY ON SOUND DEADENING TO THE UNDERSIDE OF THE COUNTERTOPS.
g. FINISH: #4 FINISH.
8. HARDWARE:
a. UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL DRAWERS SHALL BE EQUIPPED WITH STANDARD FULL EXTENSION SLIDES.
b. INSTALL HARDWARE STRAIGHT AND TRUE AND IN PERFECT ALIGNMENT HORIZONTALLY AND VERTICALLY WITH ADJACENT CASEWORK AND HARDWARE.
c. CAREFULLY FIT AND SECURELY ATTACH CABINET HARDWARE IN ACCORDANCE WITH MANUFACTURERS' PRINTED INSTRUCTIONS, AND EXERCISE CAUTION NOT TO MAR OR INJURE FINISH SURFACES.

I. SHOP FINISHING:
1. SHOP FINISH ALL ARCHITECTURAL WOODWORK WOOD SURFACES.
2. SAND ALL EXPOSED AND SEMI-EXPOSED WOOD SURFACES SMOOTH, ALWAYS SANDING IN THE DIRECTION OF THE WOOD GRAIN.
3. SAND ALL EXPOSED TRANSPARENT FINISH WOOD SURFACES TO AWI "PREMIUM " GRADE STANDARDS. SAND ALL SEMI-EXPOSED TRANSPARENT OR OPAQUE FINISH WOOD SURFACES TO AWI "CUSTOM" GRADE STANDARDS.
4. FILL ALL DEPRESSIONS AND IMPERFECTIONS WITH NON-SHRINK COLOR MATCHED PUTTY, EXCEPT IMPERFECTIONS SHALL NOT EXCEED AWI PREMIUM GRADE STANDARDS.
5. TRANSPARENT FINISH COATING: SPRAY APPLY IN ACCORDANCE WITH AWI FINISHING SYSTEM PREMIUM GRADE (WATERBORNE CONVERSION VARNISH); SATIN SHEEN.

J. STANDING AND RUNNING TRIM INSTALLATION:
1. JOINTING: MAKE ALL JOINTS TO CONCEAL SHRINKAGE; MITER ALL EXTERIOR CORNERS; COPE ALL INTERIOR CORNERS, MITER OR SCARF ALL END-TO-END JOINTS; INSTALL ALL TRIM PIECES AS LONG AS POSSIBLE, JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED. MAKE NO JOINTS CLOSER THAN 4 FEET TO CORNERS.
2. LENGTHS OF MATERIAL: USE RANDOM LENGTHS AND SHOW TYPICAL JOINT LOCATIONS ON SHOP DRAWINGS. THE MINIMUM LENGTH SHALL BE 8 FEET, EXCEPT WHERE SHORT LENGTHS ARE REQUIRED BY INSTALLATION CONDITIONS.
3. FASTENING:
a. INSTALL ALL ITEMS STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE; WHERE BLOCKING OR BACKING IS REQUIRED, COORDINATE AS NECESSARY WITH OTHER TRADES TO ENSURE PLACEMENT OF ALL REQUIRED BACKING AND BLOCKING IN A TIMELY MANNER.
b. UNLESS APPROVED OTHERWISE, USE CONCEALED FASTENING METHODS.
c. WHERE EXPOSED FASTENERS ARE APPROVED, FASTEN TRIM WITH FINISH NAILS OR SCREWS OF PROPER DIMENSION TO HOLD THE MEMBER FIRMLY IN PLACE WITHOUT SPLITTING THE WOOD. ON EXPOSED FINISH WORK, SET ALL NAILS AND SCREWS AND PUTTY. ALIGN EXPOSED FASTENERS FOR UNIFORM PATTERN; RANDOM OR "SHOTGUN" PATTERNS WILL NOT BE ACCEPTED.
4. SELECT AND ARRANGE STANDING AND RUNNING TRIM SO THAT ABUTTING MEMBERS HAVE A SIMILAR GRAIN AND COLOR MATCH TO THE GREATEST EXTENT POSSIBLE.

K. CASEWORK INSTALLATION:
1. COORDINATE CASEWORK INSTALLATION WITH WORK OF OTHER TRADES FOR FINAL ELECTRICAL AND MECHANICAL CONNECTIONS.
2. INSTALL ALL CASEWORK ACCURATELY, SCRIBED PLUMB, SQUARE, AND LEVEL, AND PERMANENTLY SECURED IN PRECISE POSITION AS INDICATED ON THE DRAWINGS.
3. THE CASEWORK INSTALLATION SHALL BE MADE COMPLETE WITH ALL REQUIRED FASTENINGS, CLIP ANGLES, BRACES, ANCHORS, ADJUSTABLE LEVELERS, AND OTHER FITTINGS AS REQUIRED TO RENDER THE WORK RIGID AND SECURE.
4. ALL FASTENERS SECURING CASEWORK SHALL BE IN CONCEALED OR SEMI-CONCEALED LOCATIONS, UNLESS APPROVED OTHERWISE.
5. AVOID DAMAGING FINISHED SURFACES. REPAIR OR REPLACE ALL DAMAGED MATERIALS AND SURFACES IN A MANNER APPROVED BY THE ARCHITECT.
6. UPON COMPLETION OF WORK, AND IN THE ARCHITECT'S PRESENCE, DEMONSTRATE HARDWARE TO WORK FREELY AS INTENDED.

L. PLANK PANELING INSTALLATION:
1. INSTALL IN THE LOCATIONS INDICATED.
2. FASTEN WITH CONCEALED FASTENERS AT MINIMUM 8 INCHES ON CENTER. COORDINATE INSTALLATION OF BLOCKING AS SPECIFIED IN SECTION 061000.
3. ALLOW SPACE FOR EXPANSION AND CONTRACTION.

M. FLAT PANEL INSTALLATION:
1. INSTALL PANELING AS INDICATED IN ACCORDANCE WITH AWI SECTION 500C PREMIUM GRADE STANDARDS.
2. INSTALL WOOD PANELING OVER WALL SURFACES ON 3/4 INCH X 2 INCH PINE NAILING STRIPS, UNLESS APPROVED OTHERWISE.
3. CUT AND FIT EACH PANEL TO ITS PARTICULAR POSITION INCLUDING CUTTING AROUND ITEMS WHICH CANNOT BE REMOUNTED TO PANEL FACE, AND PREDRILLING FOR HOLES FOR WIRE ACCESS FOR ELECTRICAL DEVICES TO BE MOUNTED ON THE PANEL FACE.

N. BANQUETTE INSTALLATION:
1. INSTALL BANQUETTE ACCURATELY, PLUMB, SQUARE, AND LEVEL, AND PERMANENTLY SECURED IN PRECISE POSITION AS INDICATED ON THE DRAWINGS. SCRIBE TO ADJACENT CONSTRUCTION.
2. ALL FASTENERS SECURING BANQUETTE SHALL BE IN CONCEALED OR SEMI-CONCEALED LOCATIONS, UNLESS APPROVED OTHERWISE.
3. AVOID DAMAGING FINISHED SURFACES. REPAIR OR REPLACE ALL DAMAGED MATERIALS AND SURFACES IN A MANNER APPROVED BY THE ARCHITECT.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

070150 MAINTENANCE OF MEMBRANE ROOFING

A. ROOFING MATERIALS: UNLESS APPROVED OTHERWISE, NEW ROOFING MATERIALS SHALL MATCH THE EXISTING MATERIALS.

B. FLASHING MATERIALS:
1. GALVANIZED STEEL SHEET: ASTM A525; G90 GALVANIZED FINISH, EXCEPT PROVIDE A60 WHERE SPECIAL FINISH IS USED.
2. IN ORDER TO MATCH EXISTING COLORS, CONTRACTOR MAY PROVIDE EITHER FACTORY PREFINISHED GALVANIZED STEEL OR SPECIAL FINISH ON GALVANIZED STEEL.
3. FINISHES:
a. FACTORY PREFINISH: FACTORY PREFINISHED WITH 70% RESIN KYNAR 500 OR HYLAR 5000 FLUOROCARBON COATING; COLOR AS SELECTED BY THE ARCHITECT TO MATCH EXISTING FLASHING OR TRIM.
b. SPECIAL FINISH MATERIALS:
1) PRIMER: TNEMEC SERIES N27 "TYPOXY", CARBOLINE 890, OR APPROVED.
2) URETHANE FINISH COATS: TNEMEC SERIES 75 "ENDURA-SHIELD" ACRYLIC POLYURETHANE ENAMEL, CARBOLINE "133HB," OR APPROVED; SEMI-GLOSS OR SATIN SHEEN; CUSTOM COLORS AS SELECTED BY THE ARCHITECT TO MATCH THE EXISTING FLASHING OR TRIM.
4. STAINLESS STEEL SHEET: ASTM A167; TYPE 302 OR 304
5. ACCESSORIES:
a. FASTENERS:
PROVIDE SOFT NEOPRENE WASHERS AT EXPOSED FASTENERS.
GALVANIZED STEEL SHEET: USE GALVANIZED STEEL OR STAINLESS STEEL.
STAINLESS STEEL SHEET: STAINLESS STEEL.
USE SCREWS WHEN FASTENING INTO WOOD OR SHEET METAL.
USE EXPANSION ANCHORS OR DRIVE PINS WHEN FASTENING INTO CONCRETE OR MASONRY.
b. BUTYL RUBBER SEALANT: ONE OF THE FOLLOWING:
1) CURTAIN WALL SEALANT, BY TREMCO;
2) ADCOSEAL BP-400, BY ADCO PRODUCTS, INC.
c. FLEXIBLE FLASHING: W.R. GRACE "PERM-A-BARRIER" WALL FLASHING, OR "ICE AND WATER SHIELD," OR APPROVED.
d. FLEXIBLE BOOT PIPE FLASHING: PORTALS PLUS (708/766-5240; 800/774-5240) "ALUMI-FLASH" WITH EPDM BOOTS, OR APPROVED; SIZED TO MATCH PIPE DIAMETER; SPLIT TYPE WITH SEALING HARDWARE WHERE NECESSARY FOR INSTALLATION AT PENETRATING ITEMS WHICH CANNOT BE DISCONNECTED FOR TOP ACCESS. FURNISH STAINLESS STEEL DRAW BANDS, ADAPTERS, CONNECTION HARDWARE, AND SEALANTS AS NECESSARY FOR A COMPLETE AND WEATHER TIGHT INSTALLATION.

C. PROTECTION:
1. PROTECT EXISTING CONSTRUCTION ADJACENT TO HOIST AND KETTLES PRIOR TO STARTING WORK.
2. LAP SUITABLE PROTECTIVE MATERIAL AT LEAST 3 INCHES.
3. SECURE PROTECTIVE COVERINGS AGAINST WIND.
4. LEAVE PROTECTIVE COVERING IN PLACE FOR DURATION OF ROOFING WORK.
5. LEAVE PROTECTIVE COVERINGS IN PLACE FOR THE DURATION OF THE WORK.
6. RESTORE TO ORIGINAL CONDITION OR REPLACE WORK OR MATERIALS DAMAGED DURING HANDLING OF BITUMENS AND ROOFING MATERIALS.

D. REMOVAL OF EXISTING ROOFING AND FLASHING SYSTEMS:
1. REMOVE EXISTING ROOFING AND FLASHING SYSTEMS TO ACCOMMODATE NEW ROOFING AND FLASHING SYSTEMS.
2. REMOVE EXISTING SYSTEMS TO EXPOSE SUBSTRATES. CLEAN AND PREPARE SURFACES IN MANNER REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
3. REMOVE RESULTING MATERIALS FROM ROOFING AREAS AND JOBSITE ON THE SAME DAY THEY ARE REMOVED. DISPOSE OF IN A LEGAL MANNER.
4. PROVIDE CHUTES, TARPS, AND OTHER MATERIALS TO PREVENT DAMAGING OR STAINING OF BUILDING COMPONENTS THAT ARE TO REMAIN.
5. EXISTING SURFACES SHALL BE MADE SMOOTH, FIRM, DRY, AND FREE FROM DIRT, FOREIGN MATERIALS, SHARP PROJECTIONS, OR VOIDS.

E. PATCHING OF EXISTING ROOF:
1. PROVIDE NEW MATERIALS AS REQUIRED TO FORM A COMPLETE AND CONTINUOUS ROOF ASSEMBLY.
2. PROVIDE ADDITIONAL TAPERED CONSTRUCTION AS REQUIRED TO FORM NEW NON-PONDING DRAINAGE PATTERNS AROUND NEW CONSTRUCTION. COORDINATE THE PLACEMENT OF NEW DRAINS.
3. SEAL OFF ALL ROOF AREAS AT THE END OF EACH WORK DAY.
4. PERFORM WORK IN ACCORDANCE WITH THE GUARANTEE REQUIREMENTS OF THE EXISTING ROOF ASSEMBLY. CONTACT THE OWNER TO VERIFY GUARANTEE REQUIREMENTS.

F. FABRICATION OF FLASHING COMPONENTS:
1. FIELD MEASURE SITE CONDITIONS PRIOR TO FABRICATING WORK; REPLACE EXISTING FLASHING WHICH IS REMOVED WITH NEW FLASHING OF LIKE PROFILE AND DIMENSION, UNLESS INDICATED OTHERWISE.
2. SHOP FINISHES:
a. PREPARE SURFACES IN ACCORDANCE WITH THE SPECIAL FINISH MANUFACTURER'S RECOMMENDATIONS.
b. SPRAY APPLY PRIMER AND FINISH COATS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS; ONE COAT PRIMER; 2 FINISH COATS.
c. FINISH SHALL BE FREE OF DUST, DIRT, FLOW LINES, STREAKS, SAGS, BLISTERS, PINHOLES, RUNS, OR OTHER SURFACE IMPERFECTIONS.
d. PROVIDE SHOP FINISHED SHEET METAL AT ALL FLASHING AND SHEET METAL EXPOSED PORTIONS OF FLASHINGS, COPINGS, AND SCUPPERS.

072100 THERMAL INSULATION

A. MATERIALS:
1. FOIL-FACED BATT AND BLANKET INSULATION: ASTM C665, TYPE III; PREFORMED FOIL-FACED GLASS FIBER ROLL; FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84; FORMALDEHYDE FREE, JOHNS MANVILLE CORP. "THERMAL-SHIELD UNFACED FIBER GLASS COMMERCIAL INSULATION;" OR APPROVED; OVERSIZE WIDTHS FOR FRICTION-FIT BETWEEN METAL FRAMING.
2. BOARD INSULATION: EXTRUDED POLYSTYRENE; DOW CHEMICAL COMPANY "STYROFOAM SM" OR UC INDUSTRIES, INC. "FOAMULAR 250 INSULATING SHEATHING."
3. TAPE: TO MATCH FOIL SCRIM KRAFT FACE; 2 INCH WIDTH.

B. INSTALLATION:
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.
3. INSTALLATION OF THERMAL BATT INSULATION:
a. INSTALL BATT INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
b. INSTALL INSULATION WITHOUT GAPS OR VOIDS.
c. TRIM INSULATION NEATLY TO FIT SPACES. USE BATTS FREE OF DAMAGE.
d. AT METAL STUD FRAMING, INSERT THE INSULATION EDGES TIGHTLY INTO THE STUD CHANNELS FOR A FRICTION FIT. PROVIDE ADDITIONAL SUPPORTS AS NECESSARY TO PREVENT SLIDING OF BATTS IN THE STUD CAVITY.
e. MECHANICAL FASTENING:
1) AT LOCATIONS WHERE NO SUPPORT FRAMING IS PRESENT, PROVIDE METAL IMPALING PINS AND RETAINERS.
2) MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3) SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BATT. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.
f. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.
g. INSTALL FACED INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE AND SEAL TEARS OR CUTS IN VAPOR BARRIER.

076200 JOINT SEALANTS

B. SECTION INCLUDES:
1. CLEANING AND PREPARATION OF JOINT SURFACES.
2. SEALANT AND BACKING MATERIALS.
3. SPECIALTY ADHESIVES.

C. SUBMITTALS:
1. PRODUCT LITERATURE FOR EACH MATERIAL USED.
2. MANUFACTURER'S SURFACE PREPARATION AND INSTALLATION INSTRUCTIONS.
3. SAMPLES:
a. SUBMIT CURED SAMPLES OF EACH SEALANT TYPE AND COLOR PROPOSED FOR THE WORK
b. FOR EACH SEALANT TYPE INDICATED FOR "COLOR AS SELECTED," OR FOR WHICH NO COLOR IS INDICATED, SUBMITS COLOR CARD INDICATING AVAILABLE STOCK COLORS FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS FOR EACH TYPE OF SEALANT.
c. FOR CUSTOM COLORS, REQUEST COLOR SELECTION FROM THE ARCHITECT PRIOR TO SAMPLE SUBMITTAL.
4. SCHEDULE OF SEALANT COLORS AND RESPECTIVE LOCATIONS.

A. QUALITY ASSURANCE:
1. VERIFY THAT SEALANTS ARE COMPATIBLE WITH THE SUBSTRATES AND ACCESSORY MATERIALS PROVIDED UNDER OTHER SECTIONS. NOTIFY ARCHITECT OF EVIDENCE OF INCOMPATIBILITY.

B. GUARANTEE:
1. FURNISH TYPE S SEALANT MANUFACTURER'S 20 YEAR MATERIAL GUARANTEE.

C. SEALANTS:
1. TYPE S – NEUTRAL CURE SILICONE SEALANTS:
a. DOW CORNING, 790 SILICONE BUILDING SEALANT, OR 795 SILICONE STRUCTURAL GLAZING AND WEATHERPROOFING SEALANT.
b. PECORA, 890 ARCHITECTURAL SILICONE SEALANT.
c. SPECTREM 3 BY TREMCO INCORPORATED.
2. TYPE PT: ASTM C920, TYPE M, GRADE P, CLASS 25; TREMCO "THC 900", SONNEBORN "SONOLASTIC PAVING JOINT SEALANT", PECORA "UREXPAN NR-200", OR APPROVED; STANDARD COLORS AS SELECTED.
3. TYPE PTNS: ASTM C920, TYPE M, GRADE NS, CLASS 25; PECORA "DYNATRED," TREMCO "HPL," OR APPROVED; CUSTOM COLORS TO MATCH THE ARCHITECT'S SAMPLES.
4. TYPE A: ASTM C834; TREMCO "ACRYLIC LATEX CAULK," PECORA "AC-20," SONNEBORN "SONOLAC," OR APPROVED; STANDARD COLORS TO MATCH ADJACENT CONSTRUCTION.
5. TYPE SM: MILDEW RESISTANT SILICONE SEALANT: USDA APPROVED; DOW CORNING 786 BY DOW CHEMICAL, GE SANITARY SEALANT OR APPROVED; CLEAR.

D. ADHESIVES:
1. "MASTERSIL 705TC" BY MASTER BOND INC (HACKENSACK, NJ; 201-343-8983); OR APPROVED

E. ACCESSORY MATERIALS:
1. PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.
2. JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS.
3. BACKER ROD: CLOSED OR OPEN CELL FOAM AS RECOMMENDED BY THE SEALANT MANUFACTURER FOR THE APPLICATION; ROUND PROFILE; THICKNESS APPROXIMATELY 130 PERCENT OF JOINT WIDTH.
4. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

F. PREPARATION:
1. CLEAN AND PREPARE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE ANY LOOSE MATERIALS AND OTHER FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION OF SEALANT.
2. APPLY MASKING TIGHTLY AROUND JOINTS TO PROTECT ADJACENT SURFACES FROM EXCESS SEALANT.
3. PRIME AS REQUIRED FOR PROPER BOND TO SUBSTRATE MATERIALS.
4. BACKING MATERIALS:
a. PLACE BACKER ROD TO ACHIEVE PROPER SEALANT WIDTH/DEPTH RATIOS AND TO PREVENT SEALANT SAG.
b. USE BOND BREAKER WHERE THERE IS INSUFFICIENT DEPTH TO USE JOINT FILLER.
c. DO NOT USE BACKER ROD AND BOND BREAKER AT JOINTS TO RECEIVE TYPE PTNS SEALANT.

G. INSTALLATION:
1. PERFORM WORK IN ACCORDANCE WITH ASTM C1193, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
2. JOINT DEPTH:
a. SEALANT BEADS SHALL HAVE A SECTIONAL WIDTH TO DEPTH RATIO OF 2 TO 1, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
b. INSTALL TYPE PTNS SEALANT FULL DEPTH IN TILE EXPANSION JOINTS WITH NO BACKER ROD.
3. APPLY SEALANT WITHIN RECOMMENDED TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN RECOMMENDED TEMPERATURE RANGES.
4. TOOLING:
a. TOOL JOINTS CONCAVE, UNLESS INDICATED OR SPECIFIED OTHERWISE. FINISH FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS.
b. TOOL TYPE PTNS SEALANT TO MATCH GROUT JOINT.
5. APPLY ADHESIVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SUBSTRATE MATERIALS INDICATED.

H. CLEAN-UP:
1. CLEAN ADJACENT SURFACES FREE OF EXCESS SEALANT AS THE WORK PROGRESSES. USE CLEANING AGENTS RECOMMENDED BY THE SEALANT MANUFACTURER.
2. UPON COMPLETION, REMOVE AND DISPOSE OF MASKING.

I. SCHEDULE:
1. TYPE S: PROVIDE AT ALL EXTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE; COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE FOR EACH TYPE OF SEALANT.
2. TYPE PT: PROVIDE AT ALL EXTERIOR AND INTERIOR HORIZONTAL JOINTS SUBJECT TO TRAFFIC AND ABRASION, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS.
3. TYPE PTNS: PROVIDE AT ALL EXPANSION JOINTS IN TILE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS.
4. TYPE A: PROVIDE AT ALL INTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE.
5. TYPE SM: PROVIDE AT JOINTS AROUND COUNTERTOPS IN KITCHEN OR OTHER WET LOCATIONS.

DIVISION 8 – DOORS AND WINDOWS

081113 HOLLOW METAL FRAMES

A. SUMMARY:
1. ROLLED STEEL FRAMES.
2. STAINLESS STEEL FRAMES.
3. ACCESSORIES.

B. REFERENCES:
1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): NFPA 80 – FIRE DOORS AND WINDOWS.
2. STEEL DOOR INSTITUTE (SDI): SDI-105 – RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES.
3. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): A250.8 – SDI-100 RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES.
4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
a. A366 – SPECIFICATION FOR STEEL, CARBON, COLD ROLLED SHEET, COMMERCIAL QUALITY.
b. A569 – SPECIFICATION FOR STEEL, CARBON (0.15 MAXIMUM PERCENT), HOT ROLLED SHEET AND STRIP, COMMERCIAL QUALITY.
c. A653 – SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY HOT-DIP PROCESS.

C. SUBMITTALS:
1. SHOP DRAWINGS:
a. FRAMES: INDICATE CONFIGURATION, ANCHOR TYPES AND SPACINGS, LOCATION OF CUTOUTS FOR HARDWARE, REINFORCEMENT, AND FINISH.
b. DOORS: INDICATE ELEVATIONS, INTERNAL REINFORCEMENT, CLOSURE METHOD, AND CUTOUTS FOR HARDWARE, GLAZING AND LOUVERS.
2. PRODUCT LITERATURE: SUBMIT MANUFACTURER'S PUBLISHED LITERATURE FOR DOORS AND FRAMES.

D. QUALITY ASSURANCE:
1. CONFORM TO REQUIREMENTS OF ANSI A250.8.
2. REGULATORY REQUIREMENTS:
a. INSTALLED FRAME AND DOOR ASSEMBLY SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
b. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED.
c. INCLUDE "S" LABEL ON FIRE RATED DOOR ASSEMBLIES WHICH ARE LOCATED AT 1 HOUR RATED EXIT CORRIDORS.

E. ACCEPTABLE MANUFACTURERS:
1. MEMBERS OF THE STEEL DOOR INSTITUTE AND OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURER'S, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

F. MATERIALS:
1. STEEL SHEET: COLD ROLLED ASTM A366, OR HOT ROLLED PICKLED AND OILED SHEET CONFORMING TO ASTM A569.
2. STAINLESS STEEL FRAMES (AT IMPACT DOOR): ASTM A167, TYPE 304 STAINLESS STEEL AT LOCATIONS SCHEDULED

G. FRAMES:
1. DESIGN: DOUBLE EQUAL RABBET, UNLESS INDICATED OTHERWISE; FULLY WELDED.
2. GAGES:
a. INTERIOR FRAMES: MINIMUM 16 GAGE FOR FRAMES OF DOOR OPENINGS UP TO AND INCLUDING 4 FEET IN WIDTH; 14 GAGE FOR FRAMES GREATER THAN 4 FEET IN WIDTH.

H. ACCESSORIES:
1. GLAZING STOPS: ROLLED STEEL CHANNEL SHAPE, BUTTED CORNERS; PREPARED FOR COUNTERSINK STYLE TAMPERPROOF SCREWS.

I. FINISH:
1. INTERIOR UNITS: MANUFACTURER'S STANDARD RUST INHIBITIVE PRIMER.
2. STAINLESS STEEL FRAMES: NO. 4 SATIN FINISH.

J. INSTALLATION OF FRAMES:
1. INSTALL FRAMES IN ACCORDANCE WITH ANSI A250.11-2012 AND IN ACCORDANCE WITH LABELING REQUIREMENTS.
2. COORDINATE WITH WALL CONSTRUCTION FOR ANCHOR PLACEMENT.
3. COORDINATE INSTALLATION OF GLASS AND GLAZING.
4. COORDINATE FOR INSTALLATION OF ACOUSTICAL INSULATION AT HOLLOW METAL FRAMES AS SPECIFIED IN SECTION 098100.
5. INSTALL ACCESSORIES.
6. INSTALL ROLL FORMED STEEL REINFORCEMENT CHANNELS BETWEEN TWO ABUTTING FRAMES. ANCHOR TO STRUCTURE AND FLOOR.
7. INSTALLATION TOLERANCES; MAXIMUM DIAGONAL DISTORTION: 1/16 INCH MEASURED WITH STRAIGHT EDGE, CORNER TO CORNER.

081400 WOOD DOORS

A. REGULATORY REQUIREMENTS:
1. CONFORM TO REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
2. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED. FIRE RATED ASSEMBLIES SHALL MEET CODE REQUIREMENTS FOR POSITIVE PRESSURE.
3. INSTALLED DOORS AND FRAMES SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.

B. SUBMITTALS:
1. SUBMIT SHOP DRAWINGS AND PRODUCT DATA. INDICATE DOOR SIZES AND THICKNESS, MATERIALS, STILE AND RAIL REINFORCEMENT, INTERNAL BLOCKING FOR HARDWARE ATTACHMENT, CUTOUTS FOR GLAZING AND LOUVERS, LOUVER DETAILS AND GLAZING STOPS.
2. SUBMIT TWO 8 X 10 INCH SAMPLES OF EACH TRANSPARENT FINISH SPECIES AND FINISH COMBINATION PROPOSED. SUBMIT CORE SAMPLES.

C. SOLID CORE FLUSH DOORS:
1. AWI SECTION 1300, PREMIUM GRADE.
2. CORE: SOLID PARTICLE BOARD CORE, UNLESS REQUIRED OTHERWISE FOR FIRE LABELING REQUIREMENTS.
3. AWI PC-5 OR PC-7 (5 OR 7 PLY CONSTRUCTION).
4. PROVIDE LABELED DOORS AS REQUIRED TO MEET THE HOURLY FIRE RATING INDICATED.
5. FACE VENEER:
a. PAINT GRADE VENEER: MEDIUM DENSITY OVERLAY OR PAINT GRADE BIRCH.
6. WHERE INTUMESCENT SEALS ARE REQUIRED TO MEET POSITIVE PRESSURE LABELING REQUIREMENTS, PROVIDE CONCEALED EDGE SEALING SYSTEM BUILT INTO THE DOOR EDGE.
7. 1-3/4 INCH THICK, UNLESS SCHEDULED OTHERWISE.

D. ACCESSORIES:
1. GLASS STOPS: WOOD TYPE, EXCEPT AS REQUIRED TO CONFORM TO LABELING REQUIREMENTS.

E. FABRICATION:
1. FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI STANDARDS SPECIFIED, AND TO FIRE RATED LABELING REQUIREMENTS. ATTACH FIRE RATING LABELS.
2. BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS.
3. BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.
4. PREFIT AND PREMACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6. PREMACHINE FOR HARDWARE SPECIFIED IN SECTION 087000, AND LOCATE AS SPECIFIED IN SECTION 087300.
5. DOORS SHALL BE FACTORY PREFINISHED AS SCHEDULED TO MATCH ARCHITECT'S SAMPLE; AWI PREMIUM GRADE CONVERSION OR UV-CURED POLYURETHANE VARNISH SYSTEM.
6. WHERE REQUIRED TO MEET LABELING REQUIREMENTS, PROVIDE METAL ASTRAGALS TO MEET RATING REQUIREMENTS FOR DOUBLE FIRE DOORS.
7. FACTORY PRE-GLAZE DOORS.
8. FLUSH DOOR BLOCKING: FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL BLOCKING AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED

OWNER

MOD

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Bellevue, WA 98008

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MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-903
ARCHITECTURAL SPECIFICATION

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

ELSEWHERE. BLOCKING FOR FIRE RATED DOORS SHALL MEET THE DOOR MANUFACTURER'S LABELING REQUIREMENTS.

F. INSTALLATION:
1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
2. PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

083100 ACCESS DOORS AND PANELS

A. SUBMITTALS:
1. SUBMIT PRODUCT DATA. INCLUDE SIZES, TYPES, FINISHES, SCHEDULED LOCATIONS, AND DETAILS OF ADJOINING CONSTRUCTION.

B. QUALITY ASSURANCE:
1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

C. ACCEPTABLE MANUFACTURERS:
1. MILCOR, INC., LIMA, OH.
2. J.L. INDUSTRIES, BLOOMINGTON, MN.
3. KARP ASSOCIATES, INC., MASPETH, NY.
4. MM SYSTEMS CORPORATION, TUCKER, GA.
5. NYSTROM, MINNEAPOLIS, MN

D. DOOR TYPES:
1. FIRE RATED METAL ACCESS DOOR:
   a. FLUSH TYPE DESIGN.
   b. 16 GAGE FRAME; MINIMUM 20 GAGE STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER
   c. SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE
   d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
   e. RING TURN LATCH.
2. NON RATED CONCEALED DRYWALL ACCESS DOOR:
   a. RECESSED TYPE DESIGN.
   b. MINIMUM 13 GAGE STEEL FRAME; MINIMUM 16 GAGE STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL.
   c. INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
   d. FULLY CONCEALED PIVOT ROD HINGE.
   e. LATCHES: SCREW DRIVER OPERATED CAM LATCH.
3. TOILET ROOM FAUCET POWER SUPPLY AND MIXING VALVE ACCESS DOORS: NON-RATED WALL TYPE; 12"W X 12" H; STAINLESS STEEL, #4 FINISH; ONE PIECE FRAME; CONCEALED HINGE.

E. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAN ENTRY.

F. INSTALLATION:
1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED, AND FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT.
2. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
3. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

083483 IMPACT DOORS

A. SECTION INCLUDES: IMPACT DOORS AND HARDWARE.

B. SUBMITTALS:
1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.
2. SHOP DRAWINGS: INDICATE DOOR ELEVATIONS, HARDWARE LOCATIONS, VISION LITE LOCATIONS AND SIZES, FRAME REINFORCEMENT REQUIREMENTS, AND FINISHES.

C. MANUFACTURER: ELIASON CORPORATION, EASY SWING DOOR DIVISION, KALAMAZOO, MI (800/828-2655)
1. TYPE: MODEL DSP 3,
2. DOOR BODY: 16 GAUGE STAINLESS STEEL WITH DELTA FORMED VERTICAL EDGES
3. WINDOW: 9" X 14" CLEAR ACRYLIC SET IN BLACK RUBBER MOLDING

D. ACCESSORIES:
1. EDGE CAPS: FORMED STAINLESS STEEL CHANNELS, 18 GAGE, MINIMUM; TYPICAL AT SIDE AND TOP EDGES.
2. BASE (KICK) PLATES: 18 GAGE SATIN FINISH STAINLESS STEEL; DOOR WIDTH X 18 INCHES HIGH; FASTENED WITH STAINLESS STEEL RIVETS.
3. PIVOTS: "EASY SWING" HINGE MECHANISM; STAINLESS STEEL.
4. FASTENERS: AS REQUIRED FOR COMPLETE INSTALLATION OF DOORS AND ACCESSORIES.

E. MAXIMUM DIAGONAL DISTORTION: 1/4 INCH MEASURED WITH STRAIGHT EDGE, CORNER TO CORNER.

F. PRIOR TO INSTALLATION, VERIFY THAT FRAMES ARE PREPARED AND READY TO RECEIVE WORK OF THIS SECTION.

G. INSTALLATION:
1. INSTALL DOORS, HARDWARE, AND ACCESSORIES IN ACCORDANCE WITH SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
2. THE BOTTOM PIVOT ASSEMBLY SHALL BE SECURED TO THE FRAME ONLY. DO NOT SECURE THE BOTTOM FLANGE OF THE PIVOT ASSEMBLY TO THE FLOOR WITH FASTENERS AS INDICATED IN MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS AS THE FASTENERS WILL PENETRATE THE WATERPROOF MEMBRANE INSTALLED BENEATH THE FINISH FLOORING.

H. ADJUST AND CLEAN
1. REPAIR DAMAGE TO DOORS AND ACCESSORIES TO MATCH FABRICATOR'S ORIGINAL FINISH.
2. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.

083613 OVERHEAD SECTIONAL DOORS

A. SYSTEM DESCRIPTION
1. OVERHEAD SECTIONAL DOOR ASSEMBLIES SHALL INCLUDE, WITHOUT LIMITATION, SECTIONAL DOOR, TRACK, HINGES AND FIXTURES, ALL OVERHEAD MOUNTING SUPPORTS, COUNTERBALANCE SYSTEM, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. SUBMITTALS
1. PRODUCT DATA: SUBMIT MANUFACTURER'S COMPLETE PRODUCT LITERATURE INDICATING SPECIFIED ITEMS AND METHOD OF INSTALLATION.
2. SHOP DRAWINGS: INDICATE DETAILS AND DIMENSIONS OF FABRICATION AND INSTALLATION, INCLUDING LOCKS, TRACK MOUNTING, SUPPORTS, AND LOCATION OF OPERATING MECHANISM.

C. QUALITY ASSURANCE
1. INSTALLERS: INSTALLATION SHALL BE PERFORMED BY INSTALLERS EMPLOYED BY A MANUFACTURER'S APPROVED DISTRIBUTOR.

D. OVERHEAD SECTIONAL DOOR: OVERHEAD DOOR COMPANY, 422 SERIES DOOR.
1. PANELS: 20 GAGE EXTERIOR PANELS; 26 GAGE INTERIOR PANELS; ISOCYANURATE FOAM CORE; 16 GAGE STILES; 2 INCH THICK PANELS.
2. GLAZING: MANUFACTURER'S STANDARD INSULATED UNITS; LOW-E COATING ON #2 SURFACE; SAFETY GLAZING WHERE REQUIRED.
3. FACTORY PRIMED FINISH.
4. PROVIDE WEATHER-STRIPPING AT EXTERIOR DOORS; "SUP-UR-SEAL" WEATHERSEAL.
5. HINGES AND FIXTURES: GALVANIZED; CAM-ACTION HARDWARE.
6. TRACK: 3 INCH; "STANDARD HEADROOM" TRACK.
7. LOCK: MANUFACTURER'S STANDARD.
8. PUSH-UP TYPE; PROVIDE ROPE PULL FOR DOORS UP TO 8'-0" WIDE AND CHAIN OPERATED TYPE FOR DOORS WIDER THAN 8'-0".

E. EXAMINATION
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
3. VERIFY OPENINGS ARE CORRECTLY DIMENSIONED WITH HEADERS LEVEL, JAMBS PLUMB, AND FLOOR LEVEL.

F. INSTALLATION
1. INSTALL DOOR ASSEMBLIES AS INDICATED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL DOORS FREE FROM WARP, TWISTS, OR DISTORTION.

G. REPAIR AND ADJUSTMENT
1. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.
2. REPAIR DAMAGE TO OVERHEAD SECTIONAL DOORS TO MATCH MANUFACTURER'S ORIGINAL FINISH. REPLACE COMPONENTS WHICH CANNOT BE PROPERLY REPAIRED.

084013 ALUMINUM ENTRANCES AND STOREFRONTS

A. SUMMARY
1. SECTION INCLUDES
   a. ALUMINUM FRAMED STOREFRONT AND WINDOW SYSTEMS.
   b. ALUMINUM FRAMED GLASS ENTRANCE DOORS INTEGRAL WITH ALUMINUM FRAMED GLAZING SYSTEMS.
   c. ALUMINUM PANEL AND TRIM RELATED TO ALUMINUM FRAMED GLAZING SYSTEMS.
   d. SEALANTS WITHIN ALUMINUM FRAMED GLAZING SYSTEMS.
   e. RELATED FLASHING AND TRIM.
   f. RELATED ANCHOR BRACKETS AND SUPPORTS.
   g. STRUCTURAL DESIGN OF ALUMINUM FRAMED GLAZING SYSTEMS, INCLUDING FRAMING AND ATTACHMENT TO STRUCTURE.
   h. HARDWARE FOR ENTRY DOORS.
2. RELATED SECTIONS:
   a. 079200 – JOINT SEALANTS: PERIMETER JOINT FILLERS.
   b. 087100 – DOOR HARDWARE: DOOR HARDWARE OTHER THAN THAT SPECIFIED IN THIS SECTION; TEMPLATES.
   c. 088000 – GLAZING: GLASS AND GLAZING
   d. DRAWINGS, THE PROVISIONS OF THE AGREEMENT, THE GENERAL CONDITIONS, AND DIVISION 1 SPECIFICATION

B. SYSTEM DESCRIPTION
1. APPEARANCE: SYSTEM SHALL CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING WITHOUT LIMITATION, POSITION, SPACING, AND LOCATION OF FRAMING MEMBERS, PLANE OF GLAZING, EXTERIOR FRAME GENERAL PROFILE AND SHAPE, AND DIMENSION POINTS.
2. THERMAL PERFORMANCE:
   a. SYSTEMS SHALL ACCOMMODATE EXPANSION AND CONTRACTION CAUSED BY A TEMPERATURE RANGE OF -20 DEGREES F. TO + 160 DEGREES F. WITHOUT DETRIMENTAL EFFECTS TO COMPONENTS, SEALING SYSTEMS, AND SURROUNDING CONSTRUCTION.
   b. THERMAL TRANSMITTANCE: MAXIMUM U=0.60 WHEN TESTED IN ACCORDANCE WITH NFRC REQUIREMENTS. PROVIDE CURTAIN WALL SYSTEMS WITH CERTIFICATION STATING THAT THEY HAVE BEEN TESTED IN ACCORDANCE WITH NFRC TO MEET THE SPECIFIED REQUIREMENTS USING GLASS WHICH MATCHES THE GLASS TO BE USED IN THE PROJECT.
3. PERFORMANCE – AIR INFILTRATION:
   a. AIR INFILTRATION STOREFRONT, WINDOW, AND CURTAINWALL SYSTEMS: NOT TO EXCEED 0.06 CFM PER SQUARE FOOT OF FIXED AREA WHEN TESTED IN ACCORDANCE WITH ASTM E283 AT A STATIC PRESSURE DIFFERENTIAL OF 6.24 PSF.
   b. AIR INFILTRATION ALUMINUM ENTRANCE DOORS: LIMIT AIR INFILTRATION THROUGH ASSEMBLY TO 0.05CF./MIN/FT. OF PERIMETER CRACK, MEASURED AT A STATIC DIFFERENTIAL PRESSURE OF 1.57PSF AS MEASURED IN ACCORDANCE WITH ASTM E283.
4. PERFORMANCE – WATER PENETRATION:
   a. DESIGN SYSTEMS TO DRAIN WATER, INCLUDING CONDENSATION, TO THE EXTERIOR.
   b. WATER PENETRATION STOREFRONT AND WINDOW SYSTEMS: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A STATIC PRESSURE DIFFERENTIAL OF 20 PERCENT OF THE DESIGNED WIND PRESSURE.
5. STRUCTURAL DESIGN:
   a. DESIGN AND SIZE MEMBERS TO WITHSTAND POSITIVE AND NEGATIVE WIND LOADS AS INDICATED ON THE STRUCTURAL DRAWINGS.
   b. SYSTEM SHALL LIMIT FRAMING DEFLECTION TO 1/175 OF THE SPAN, AND ALLOWABLE STRESS WITHIN A SAFETY FACTOR OF 1.65, WHICHEVER IS GREATEST, UNDER WIND LOAD LISTED ON THE STRUCTURAL DRAWINGS.
   c. ANCHORAGES AND INSERTS SHALL BE DESIGNED TO RESIST ALL DESIGN AND LIVE LOADS, IN COMBINATIONS AS SPECIFIED, AND INCLUDING A CONTRIBUTION OF 1.25 X THE DESIGN WIND LOAD.
   d. SEISMIC DESIGN: THE INSTALLED SYSTEM SHALL BE CAPABLE OF ACCOMMODATING SEISMIC LOADS IN COMPLIANCE WITH CODE REQUIREMENTS.
6. DYNAMIC MOVEMENT: SYSTEM SHALL ACCOMMODATE THE FOLLOWING WITHOUT DAMAGE TO SYSTEM COMPONENTS OR PERFORMANCE.
   a. MOVEMENT WITHIN THE SYSTEM
   b. MOVEMENT BETWEEN THE SYSTEM AND PERIMETER FRAMING COMPONENTS.
   c. APPLICATION AND RELEASE OF DESIGN LIVE LOADS
   d. DEFLECTION OF STRUCTURAL SUPPORT FRAMING.
   e. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL CALCULATED AS A MAXIMUM STORY DRIFT OF .005 TIMES THE STORY HEIGHT.
7. UNDER NORMAL CIRCUMSTANCES, SYSTEMS SHALL NOT EXHIBIT VIBRATION HARMONICS, WIND WHISTLES, AND NOISES CAUSED BY THERMAL MOVEMENT. UNDER THE FULL RANGE OF DESIGN LOADS AND CONDITIONS, THE SYSTEMS SHALL NOT EXHIBIT LOOSENING, WEAKENING, OR FRACTURING OF ATTACHMENTS OR COMPONENTS OF THE SYSTEM, INCLUDING GLAZING AND SEALANTS.

C. SUBMITTALS
1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
2. PRODUCT DATA: MANUFACTURER'S COMPLETE PRODUCT FOR ALL COMPONENTS AND SYSTEMS PROPOSED.
3. SHOP DRAWINGS:
   a. ELEVATIONS, SYSTEM DIMENSIONS, AND EXPANSION AND CONTRACTION JOINT LOCATION.
   b. ALL SPECIAL AND TYPICAL DETAILS.
   c. FRAMING PROFILES.
   d. MATERIALS AND FINISHES.
   e. ADJACENT CONSTRUCTION.
   f. ANCHORAGE SYSTEM DETAILS.
   g. FASTENING METHODS.
   h. SHOP DRAWINGS SHALL BE STAMPED BY THE DESIGNING STRUCTURAL ENGINEER.
4. SAMPLES:
   a. SUBMIT ONE SAMPLE OF A TYPICAL WINDOW CORNER SECTION WITH MINIMUM 12 INCH LONG LEGS. FINISH TO MATCH ARCHITECT'S SAMPLE. INCLUDE TYPICAL GLASS UNIT AND GLAZING SYSTEM.
5. QUALITY CONTROL SUBMITTALS:
   a. CERTIFICATION: SUBMIT CERTIFICATION THAT THE PRECAST STAIR SYSTEMS HAVE BEEN DESIGNED TO MEET THE SPECIFIED REQUIREMENTS.
   b. TEST REPORTS: SUBMIT COPIES OF TEST REPORTS WHICH VERIFY THAT EACH ALUMINUM FRAMED GLAZING SYSTEM MEETS THE AIR AND WATER INFILTRATION PERFORMANCE REQUIREMENTS SPECIFIED.
6. CLOSEOUT SUBMITTAL:
   a. IN ACCORDANCE WITH SECTION 017700.
   b. SUBMIT DESIGNING ENGINEER'S CERTIFICATION THAT PRODUCTS AND INSTALLATION COMPLY WITH DESIGN REQUIREMENTS.

D. QUALITY ASSURANCE
1. INSTALLERS: UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER OF THE ALUMINUM FRAMED GLAZING SYSTEM.
2. DESIGN: STRUCTURAL DESIGN OF THE ALUMINUM FRAMED GLAZING SYSTEMS SHALL BE BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF WHERE THE PROJECT IS LOCATED.
3. STRUCTURAL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
4. ALL MATERIALS SHALL CONFORM TO THE METAL CURTAIN WALL GUIDE SPECIFICATIONS AS PUBLISHED BY THE ARCHITECTURAL ALUMINUM MANUFACTURER'S ASSOCIATION.

E. MANUFACTURER'S WARRANTY
1. FURNISH MANUFACTURER'S STANDARD FIVE YEAR WRITTEN WARRANTY EXECUTED TO THE OWNER, FROM THE MANUFACTURER OF EACH ALUMINUM FRAMED GLAZING SYSTEM, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, IN ACCORDANCE WITH SECTION 017700.

F. GUARANTEE
1. FURNISH FROM THE INSTALLER, A TWO YEAR WRITTEN GUARANTEE AGAINST DEFECTS IN INSTALLATION IN ACCORDANCE WITH SECTION 017700.

G. MATERIALS
1. EXTRUDED ALUMINUM: ASTM B221; 6063 T5 ALLOY AND TEMPER.
2. SHEET ALUMINUM: ASTM B209; 5005-H32 ALLOY, OR APPROVED.

H. DESIGN:
1. KAWNEER T-451 (NON-INSULATED) AND T-451T (INSULATED) SYSTEMS OR EQUAL. PROVIDE INSULATED SYSTEMS AT ALL EXTERIOR LOCATIONS.

I. COMPONENTS
1. DOOR HARDWARE:
   a. HINGES: MANUFACTURERS STANDARD CENTER PIVOT HINGES.
   b. CONCEALED CLOSERS: LCN 2030 SERIES; 8.5 LBS. FORCE EXTERIOR, 5 LBS. INTERIOR.
   c. RAIL LOCKS: ADAMS RITE MS-18161-01 SINGLE POINT; DESIGNED TO RECEIVE CYLINDER SPECIFIED IN SECTION 087100.
   d. THRESHOLD: EXTRUDED ALUMINUM.
   e. WEATHERSTRIPPING: MANUFACTURER'S STANDARD.
   f. REMAINING HARDWARE IS SPECIFIED IN SECTION 087100.
2. GLAZING BEADS: DENSE CLOSED CELL FOAM TAPE, OR EPDM WITH SILICONE SEALED CORNERS. FURNISH FOR INSTALLATION AS A PART OF THE WORK OF SECTION 088000.
3. GLASS: AS SPECIFIED IN SECTION 088000.
4. SEALANTS: AS SPECIFIED IN SECTION 079200.
5. FASTENERS: ASTM A164; ALUMINUM, STAINLESS STEEL, OR ZINC PLATED STEEL.

J. ALUMINUM FRAMED GLAZING SYSTEMS FABRICATION
1. FABRICATE FRAMES ALLOWING FOR SHIM SPACING AROUND PERIMETER OF ASSEMBLY, YET ENABLING INSTALLATION.
2. IN SO FAR AS PRACTICAL, FITTING AND ASSEMBLY OF THE WORK SHALL BE PERFORMED IN THE SHOP.
3. MAKE JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
4. RIGIDLY FIT JOINTS AND CORNERS. ACCURATELY FIT AND SECURE CORNERS TIGHT. MAKE CORNER JOINTS FLUSH, UNIFORM, HAIRLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
5. PROVIDE DRAINAGE HOLES TO ALLOW WATER TO FLOW TO EXTERIOR.
6. PREPARE COMPONENTS TO RECEIVE ANCHORAGE DEVICES. FABRICATE ANCHORAGE ITEMS.
7. PROVIDE INTERNAL REINFORCEMENT IN MULLIONS WITH MEMBERS TO MAINTAIN RIGIDITY. PROVIDE REINFORCING AT ALL DOOR STRIKE JAMBS.
8. FABRICATE FRAMING SYSTEMS TO ACCOMMODATE HARDWARE USING TEMPLATES FURNISHED FROM THE HARDWARE SUPPLIER.
9. FABRICATE SILL AND OTHER FLASHING TO DIRECT WATER TO THE EXTERIOR.

K. ALUMINUM PANEL FABRICATION
1. FORM PANELS TO THE CONFIGURATIONS INDICATED. USE 0.125 INCH THICK ALUMINUM OR THICKNESSES AS NECESSARY TO PREVENT OIL CANNING AND TO RESIST DAMAGE FROM IMPACT.
2. FABRICATE PANELS WITH CONCEALED ANCHORAGE TO ADJACENT CONSTRUCTION.
3. UNLESS APPROVED OTHERWISE, FABRICATE PANELS WITH BRAKE FORMED CORNERS. BACK ROUTE PANELS THICKER THAN .125 INCH THICKNESS FOR MINIMUM RADIUS AT CORNERS AND WELD TIGHT. WELD EXPOSED FIXED JOINTS CONTINUOUSLY AND GRIND SMOOTH.
4. BASE FABRICATION ON AN ASSUMED DESIGN TEMPERATURE OF 70 DEGREES F. ALLOW FOR AMBIENT TEMPERATURE RANGE AT TIME OF ERECTION.
5. FABRICATE PANELS WITH SHARP AND TRUE LINES, BREAKS AND ANGLES. SURFACE SHALL BE FREE OF OIL CANNING, WARPS, OR BUCKLES. FACTORY CURVE RADIUSED PANELS AND EDGE EXTRUSIONS.
6. PROVIDE STIFFENERS SECURED TO THE REAR FACE OF THE PANELS AND TRIM AS NECESSARY TO RESIST DESIGN LOADS AND TO ELIMINATE OIL-CANNING.
7. ALLOWABLE PANEL TOLERANCES:
   a. FLATNESS: NO POINT ON A SURFACE PLANE SHALL VARY MORE THAN 1/8 INCH UNDER A 10 FOOT STRAIGHT EDGE.
   b. EDGE STRAIGHTNESS: NO POINT ON AN EDGE OR ARRIS SHALL VARY MORE THAN 1/16 INCH UNDER A 10 FOOT STRAIGHT EDGE.
   c. SHAPES: NO SHAPE SHALL VARY FROM ITS PRESCRIBED LOCATION MORE THAN 1/8 INCH IN ANY DIRECTION.
   d. PANEL DIMENSIONS: NOT MORE THAN 1/16 INCH FROM INDICATED DIMENSION.
   e. CURVES: NO POINT ON THE SURFACE OF THE CURVE SHALL VARY FROM THE PRESCRIBED ARC MORE THAN 1 PERCENT OF THE RADIUS.

L. FINISHES
1. FINISH FOR EXPOSED ALUMINUM SURFACES: MINIMUM 70 PERCENT RESIN KYNAR 500 OR HYLAR 5000 PVDF SYSTEM COMPLYING WITH AAMA 2605; CUSTOM NON-EXOTIC COLOR AS LISTED IN THE EXTERIOR FINISH SCHEDULE.
2. STEEL ANCHORAGES AND SUPPORTS: CLEAN AND APPLY RUST RESISTANT PRIMER.
3. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS

M. EXAMINATION
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

N. PREPARATION
1. COORDINATE DIMENSIONS, TOLERANCES, AND METHOD OF ATTACHMENT WITH THE OTHER WORK.
2. FURNISH INSERTS FOR PLACEMENT BY OTHER TRADES. COORDINATE LOCATIONS AND ALIGNMENT.

O. INSTALLATION
1. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPROVED SHOP DRAWINGS.
2. USE ANCHORAGE DEVICES TO SECURELY ATTACH FRAMING SYSTEMS TO STRUCTURE.
3. ALIGN FRAMES PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK.
4. STOREFRONT FRAMING:
   a. INSTALL UNDER SILL ALUMINUM FLASHINGS. SEAL ALL FRAME JOINTS, AND PENETRATIONS IN FLASHINGS.
   b. SUB-SILLS:
      1) PROVIDE EXTRUDED ALUMINUM SUB-SILLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
      2) PROVIDE END DAMS AND SPLICE PLATES SEALED INTO POSITION. END DAMS AND SPLICE PLATES SHALL MATCH THE HEIGHT OF THE SUB-SILL BACK.
      3) SEAL JOINT BETWEEN END DAM AND JAMB.
      4) FASTEN THE SUB-SILL SECURELY TO THE SILL CONSTRUCTION. CAP SEAL TOPS OF FASTENERS.
      5) FASTEN THE STOREFRONT FRAMING INTO THE SUB-SILL. USE MANUFACTURER'S STANDARD INTERLOCKING ANCHORS WHICH ENGAGE THE SUB-SILL AND ALLOW FASTENING OF THE STOREFRONT WITHOUT PENETRATING THE HORIZONTAL PAN OF THE SUB-SILL.
   c. INSTALL WATER DIVERTERS.
   d. COMPENSATION HEADS:
      1) PROVIDE COMPENSATION CHANNELS AT HEAD CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
      2) PROVIDE MANUFACTURER'S STANDARD END CAPS SEALED INTO POSITION. END CAPS SHALL MATCH THE HEIGHT OF THE COMPENSATION CHANNEL AND SHALL BE PRE-FINISHED TO MATCH THE FRAMING AT EXPOSED LOCATIONS.
      3) PROVIDE INTERLOCKING MULLION ANCHORS AT VERTICAL TUBES.
5. PERIMETER SEALANT IS PROVIDED UNDER SECTION 079200 – JOINT SEALANTS.
6. INSTALL HARDWARE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 087100. ADJUST HARDWARE INSTALLED IN THIS SECTION FOR SMOOTH OPERATION.
7. INSTALL ADDITIONAL FRAMING AS NECESSARY TO SUPPORT THE SYSTEM COMPONENTS.
8. PROTECT ALUMINUM FROM DISSIMILAR MATERIALS WITH A COATING OF BITUMINOUS PAINT, PLASTIC SEPARATOR MATERIALS, OR ISOLATION TAPE. KEEP ISOLATION MATERIALS UNEXPOSED TO VIEW.
9. TOUCH-UP ALL DAMAGE COATINGS WITH MATERIALS TO MATCH THE ORIGINAL COATING. REMOVE AND REPLACE WITH NEW ALL DAMAGED COMPONENTS WHICH CANNOT BE REPAIRED AS DETERMINED BY THE ARCHITECT.
10. INSTALLATION TOLERANCES
11. VARIATION FROM PLANE: 0.06 INCHES EVERY THREE FEET MAXIMUM OR 0.25 INCHES PER 100 FEET, WHICHEVER IS LESS.
12. MISALIGNMENT OF TWO ADJOINING MEMBERS ABUTTING IN PLANE: 0.015 INCHES.

P. FIELD QUALITY CONTROL
1. HOSE TEST INSTALLATION IN ACCORDANCE WITH AAMA 501.2 (MODIFIED TO EXCLUDE THE APPEARANCE OF ANY WATER AT THE INTERIOR) AT SELECTED LOCATIONS AS APPROVED BY THE ARCHITECT. HOSE TEST SEPARATELY FOR EACH TYPE OF SYSTEM TO BE PROVIDED.
2. SHOULD TESTING SHOW LEAKAGE, ELIMINATE THE CAUSE OF SUCH LEAKAGE AT NO ADDITIONAL COST TO THE OWNER. REMEDIAL MEASURES SHALL CONFORM TO THE SPECIFIED REQUIREMENTS FOR THE ORIGINAL INSTALLATION.
3. THE TESTING MAY BE WITNESSED BY THE OWNER AND THE ARCHITECT. FURNISH A MINIMUM OF 5 WORKING DAYS NOTICE PRIOR TO TESTING

Q. CLEANING
1. REMOVE PROTECTIVE MATERIAL FROM PREFINISHED ALUMINUM SURFACES IF APPLICABLE
2. WASH DOWN EXPOSED SURFACES USING A SOLUTION OF MILD DETERGENT IN WARM WATER, APPLIED WITH SOFT, CLEAN WIPING CLOTHS. TAKE CARE TO REMOVE DIRT FROM CORNERS. WIPE SURFACES CLEAN.

R. FIELD QUALITY CONTROL
1. THE STRUCTURAL DESIGN ENGINEER OR AN AUTHORIZED REPRESENTATIVE SHALL VISIT THE SITE TO INSPECT THE WORK. VERITY AND CERTIFY THAT THE INSTALLATION HAS BEEN INSTALLED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS.

087100 DOOR HARDWARE

A. SUBMITTALS:
1. HARDWARE SCHEDULE: SUBMIT TO THE ARCHITECT, IN TRIPLICATE, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE OPENING.

B. SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS' HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE TENANT, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE TENANT.

C. PRODUCTS: AS SCHEDULED ON THE DRAWINGS.

D. KEYS & KEYING:
1. ALL CYLINDER ITEMS SHALL BE KEYED TO EXISTING BUILDING AS DIRECTED BY THE TENANT.
2. KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.

E. INSTALLATION:
1. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHES IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
3. HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA). GENERALLY, MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND HANDICAPPED REQUIREMENTS. VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED.
   a. LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB.
   b. DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.
   c. EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR.
   d. PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL.
   e. PUSH PLATE: 1/2 INCH FROM EDGE OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 INCHES WHERE INDEPENDENT OF THE PUSH/PULL.
   f. KICK PLATES: MOUNT AT BOTTOM EDGE OF DOOR AND 1/2 INCH FROM OUTSIDE EDGE OF DOOR.;
   g. TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE.
   h. BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.
   i. CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES.
   j. MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.
   k. WALL STOPS: CENTERLINE OF KNOB OR POINT OF FIRST CONTACT.
   l. THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT SLOPE BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BED OF CAULKING MATERIAL.
   m. CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS.
   n. TRIM/PROTECTION: KICKPLATE SHALL BE 2" LDW X HEIGHT INDICATED.
   o. OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.
4. ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION. CLEAN DOOR AND HARDWARE.

088000 GLAZING

A. SUBMITTALS:
1. SUBMITTALS SPECIFIED IN THIS SECTION MAY BE INCORPORATED INTO SUBMITTAL SPECIFIED IN OTHER SECTIONS, WHERE GLASS IS TO BE PROVIDED IN THOSE SECTIONS.
2. PRODUCT DATA: SUBMIT PRODUCT DATA ON GLASS, GLAZING MATERIALS, AND INSULATING GLASS SYSTEM.

B. GLASS: PROVIDE THE FOLLOWING GLASS AS SCHEDULED AT THE END OF THIS SECTION:
1. CLEAR GLASS: ASTM C1036, TYPE I, CLASS 1, CLEAR, QUALITY Q3 GLAZING SELECT.

C. ACCESSORIES:
1. SILICONE SEALANT: DOW CORNING "795"; CLEAR COLOR.
2. SETTING BLOCKS: COMPATIBLE WITH SILICONE SEALANTS; 70-90 SHORE A HARDNESS.
3. SPACERS: COMPATIBLE WITH SILICONE SEALANT.
4. GLAZING TAPE: TREMCO "CCN" SPONGE, OR APPROVED.
5. GLAZING FILM: 3M "BLOCKOUT 3635-20B"; OR COURTAULDS PERFORMANCE FILMS (LLUMAR WINDOW FILMS) "NRM M PS3"; ZERO VISIBLE LIGHT TRANSMITTANCE; PRESSURE-SENSITIVE ADHESIVE.

D. FABRICATION:
1. INSULATING GLASS UNITS:
   a. DUAL LITE UNITS FABRICATED FROM GLASS AS SCHEDULED; 1/2 INCH NOMINAL AIRSPACE; DUAL SEAL SYSTEM.
   b. TWIN SEALS; POLYISOBUTYLENE PRIMARY SEAL AND SILICONE SECONDARY SEAL. OUTER SEAL SHALL BE COMPATIBLE WITH GLAZING SYSTEM.
   c. SPACER BAR: MILL FINISH ALUMINUM; FILL WITH DESICCANT; CORNERS SHALL BE PARTIALLY MITER CUT AND BENT (NOT CUT THROUGH), OR FORMED WITH CORNER KEYS ULTRASONICALLY SOLDERED IN PLACE.
   d. CERTIFIED THROUGH THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC) IN ACCORDANCE WITH ASTM E773 AND E774; CERTIFIED TO LEVEL CBA.
   e. EACH PIECE SHALL BEAR CERTIFICATION NUMBER, DATE, AND MANUFACTURER'S IDENTIFICATION MARK.
2. TEMPERED AND HEAT STRENGTHENED GLASS:
   a. TEMPERED GLASS: GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 4 TIMES THE ANNEALED STRENGTH; CERTIFIED SAFETY GLASS IN ACCORDANCE WITH ANSI Z97.1.
   b. HEAT STRENGTHENED GLASS: ASTM C1048; GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 2 TIMES ANNEALED STRENGTH.
   c. FABRICATE TEMPERED AND HEAT STRENGTHENED GLASS UNITS SO THAT PRINCIPLE DISTORTION WILL BE IN THE HORIZONTAL DIRECTION IN THE FINISHED INSTALLATION.
   d. UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL, PROVIDE MANUFACTURER'S LABEL ON EACH LIGHT, INDICATING TYPE AND THICKNESS OF GLASS.
   e. COMPLY WITH IBC REQUIREMENTS FOR IDENTIFICATION AND LABELING OF SAFETY-GLAZING MATERIALS IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT LOADS.

E. LOW E COATING: HIGH PERFORMANCE TYPE; APPLIED BY USING SPUTTERED DEPOSITION TECHNOLOGY.
1. BASIS OF DESIGN: PPG (PITTSBURGH PA; 412-434-2858) "SOLARBAN 60."
2. ACCEPTABLE SUBSTITUTION: VIRACON (OTAWANA MN; 800_533_2080) "SOLARSCREEN 2000."

F. PREPARATION:
1. CLEAN CONTACT SURFACES AND WIPE DRY.
2. SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLUG WEEP HOLES.
3. PRIME SURFACES SCHEDULED TO RECEIVE SEALANT, UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.

G. INSTALLATION:
1. UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (GANA): GLAZING MANUAL.
2. SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
3. SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
4. UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
5. GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
   a. GLAZE WITH GLAZING TAPE.
   b. PRE-MEASURE AND CUT TAPES TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
   c. INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
   d. POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINES.
6. GLAZING FOR FIRE RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 80, UNLESS REQUIRED OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
7. ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.

H. SCHEDULE:
1. TYPE 1: CLEAR 1/4 INCH THICK GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED.
2. TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF 1/4 INCH GLASS; OUTER PANE SHALL BE HEAT STRENGTHENED OR TEMPERED GLASS WITH LOW-E COATING ON #2 SURFACE; INNER PANE SHALL BE CLEAR GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. WHERE NOT REQUIRED BY CODE TO BE TEMPERED, PROVIDE ANNEALED, HEAT-STRENGTHENED OR TEMPERED GLASS AS DETERMINED BY GLASS MANUFACTURER'S GLASS ANALYSIS.

I. PROVIDE TEMPERED GLASS IN HAZARDOUS LOCATIONS TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

DIVISION 9 FINISHES

092200 LIGHTGAGE METAL SUPPORT FRAMING

A. SYSTEM DESCRIPTION:
1. STRUCTURAL DESIGN:
   a. SELECT FRAMING SYSTEMS, GAGES, SUPPORTS, BRACING, AND CONNECTIONS AS NECESSARY TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
   b. PARTITION FRAMING SHALL CONFORM TO THE WIDTHS INDICATED, UNLESS APPROVED OTHERWISE. PROVIDE THICKER GAGES AND DECREASED STUD SPACING AS NECESSARY TO MEET THE DESIGN REQUIREMENTS.
2. DESIGN LOADS:
   a. INTERIOR CEILING ASSEMBLIES: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD, PLUS DEAD LOADS.
   b. INTERIOR PARTITIONS: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LATERAL LOAD.
   c. EXTERIOR SOFFITS: 25 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD.
   d. SEISMIC LOADS: CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, SEISMIC ZONE 3.
3. DEFLECTION REQUIREMENTS: MAXIMUM OF 1/240 THE SPAN, EXCEPT MAXIMUM 1/360 AT TILE.

B. CODE REQUIREMENTS:
1. PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BEEN TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
2. FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
3. PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHTGAGE METAL FRAMING INSTALLATION.

C. MATERIALS:
1. LIGHT GAGE METAL FRAMING: ASTM C645; GALVANIZED; PROVIDE "C" SHAPED STUDS, U SHAPED RUNNERS, HAT AND "Z" SHAPED FURRING CHANNELS, AND OTHER SIZES AND SHAPES AS INDICATED ON THE DRAWINGS, AND REQUIRED IN THE STANDARDS REFERENCED. MINIMUM 25 GAGE, EXCEPT PROVIDE THICKER GAGES AS REQUIRED TO MEET DEFLECTION REQUIREMENTS.
2. COLD ROLLED CHANNELS: RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.
3. SCREWS: SELF TAPPING; LOW PROFILE HEAD.
4. PARTITION HEAD COMPENSATING CHANNEL: DESIGN FOR MINIMUM ±1/2 INCH DEFLECTION. PROFILES AS INDICATED; ONE OF THE FOLLOWING.
   a. 20 GAGE DEEP LEG TRACK; 2 INCH LEGS.
   b. SLIP TRACK SYSTEMS INC. (ANAHEIM, CA; 714-761-1921) "SLP-TRK."
5. OTHER FRAMING MATERIALS: FURNISH IN ACCORDANCE WITH ASTM C754.

D. PARTITION FRAMING:
1. RUNNERS:
   a. SECURE RUNNERS WITH FASTENERS AT MAXIMUM 24 INCHES OC.
   b. AT CONCRETE FLOORS, USE POWDER DRIVEN FASTENERS OR DRILLED IN CONCRETE ANCHORS.
   c. WHERE INDICATED, ATTACH TOP TRACK TO ACOUSTICAL CEILING GRID WITH TWO STAGGERED #12-14 SCREWS AT 24 INCHES ON CENTER. PROVIDE SPACER STRIP BETWEEN RUNNER AND CEILING SUSPENSION SYSTEM TO ALLOW TEGULAR OR REVEAL EDGE ACOUSTICAL PANELS TO CLEAR PARTITION. USE MINIMUM 20 GAGE TOP TRACK.
   d. TOP RUNNER: USE PROPRIETARY COMPENSATING CHANNEL OR DEEP LEG TRACK AT CONTRACTOR'S OPTION, AS NECESSARY TO ACCOMMODATE BUILDING DEFLECTION.
   e. UNLESS APPROVED OTHERWISE, AT FIRE RATED PARTITION ASSEMBLIES, USE FIRE RATED TRACKS, FURNISHED FROM SECTION 078500. INSTALL FIRE RATED TRACKS IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY REQUIREMENTS.
   f. ALIGN TO TOLERANCES SPECIFIED.
2. UNLESS INDICATED OTHERWISE, INSTALL STUDS VERTICALLY AT 16 INCHES OC, AND NOT MORE THAN 2 INCHES FROM ABUTTING CONSTRUCTION, AT EACH SIDE OF OPENINGS, AND AT CORNERS.
3. FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS AT SPACING OF WALL STUDS.
4. BRACE PARTITION FRAMING SYSTEM AND MAKE RIGID. PROVIDE DIAGONAL STUD BRACING AT 8 FT ON CENTER AT ALL FRAMING WHICH DOES NOT EXTEND TO STRUCTURE.
5. INSTALL DOUBLE STUDS CONTINUOUS FROM FLOOR TO CEILING TRACK AT THE JAMB OF EACH DOOR FRAME AND CASED OPENING. STUDS SHALL BE THE SAME GAGE AS THE ADJACENT STUDS, BUT NO LESS THAN 20 GAGE. PROVIDE DIAGONAL STEEL STUD BRACING TO STRUCTURE AT EACH JAMB AT PARTITIONS WHICH DO NOT EXTENT TO STRUCTURE.
6. COORDINATE ERECTION OF STUDS WITH INSTALLATION OF SERVICE UTILITIES. ALIGN STUD WEB OPENINGS.
7. COORDINATE ERECTION OF STUD SYSTEM WITH REQUIREMENTS OF DOOR AND WINDOW FRAMES, FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES, ACCESS DOORS, AND OTHER CONSTRUCTION WITHIN MOUNTED PARTITION CONSTRUCTION.
8. COORDINATE THE INSTALLATION OF FRAMING WITH THE GYPSUM BOARD INSTALLER TO ENSURE SUPPORT AT ALL BOARD EDGES. PROVIDE FRAMING IMMEDIATELY EITHER SIDE OF EXPANSION JOINTS.
9. STUD SPLICING NOT PERMISSIBLE.
10. AT NON-LOAD BEARING FULL HEIGHT PARTITIONS SUBJECT TO COMPRESSION CAUSED BY OVERHEAD STRUCTURAL DEFLECTION, CUT STUDS 1/2 INCH SHORT FROM FULL HEIGHT. DO NOT RIGIDLY CONNECT STUD TO TOP RUNNER.
11. STUD BRIDGING:
   a. AT INTERIOR PARTITIONS GREATER THAN 4 FEET IN LENGTH, AND WITH RIGID FACING MATERIAL ON ONE STUD FLANGE ONLY, PROVIDE 3/4" BRIDGING CHANNELS IN HORIZONTAL ROWS AT A MAXIMUM OF 5'-0" ON CENTER FOR THE FULL HEIGHT OF THE PARTITION.
   b. INTERIOR FULL HEIGHT PARTITIONS (STUDS EXTENDING FROM THE FLOOR TO THE STRUCTURE ABOVE) WITH RIGID FACING MATERIAL STOPPING 3'-0" OR MORE BELOW TOP OF STUDS – PROVIDE ONE ROW 3/4" BRIDGING CHANNEL HORIZONTALLY AT TERMINATION OF GYPSUM BOARD MATERIAL, AND ONE ADDITIONAL ROW FOR EACH 5'-0" OF EXPOSED STUDS.
   c. INSTALL STUD BRIDGING CHANNELS IN LONG LENGTHS, WIRE TYING AND LAPPING THE JOINTS A MINIMUM OF 12." ATTACH BRIDGING CHANNEL TO EACH STUD AS SHOWN IN MANUFACTURER'S PRINTED INSTRUCTIONS.

E. CEILING AND SOFFIT FRAMING:
1. COORDINATE LOCATIONS OF HANGERS AND SUPPORTS WITH THE WORK OF OTHER SECTIONS.
2. PROVIDE CEILING AND SOFFIT FRAMING AS INDICATED. WHERE NOT INDICATED PROVIDE, STUD AND RUNNER FRAMING, SUSPENDED FRAMING, OR PROPRIETARY SUSPENDED FRAMING.
3. PROPRIETARY SUSPENDED FRAMING: INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. STUD AND RUNNER FRAMING:
   a. SECURE RUNNERS TO STRUCTURE ABOVE WITH FASTENERS AT A MAXIMUM OF 24 INCHES ON CENTER. SIZE FASTENERS AND USE REINFORCEMENTS AS NECESSARY TO SUPPORT THE DEAD LOADS APPLIED.
   b. SCREW FASTEN FRAMING AT EACH FLANGE JOINT.
   c. SPACE STUDS AT 16 INCHES ON CENTER AT HORIZONTAL LOCATIONS.
   d. SELECT MEMBERS TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
5. LIGHTGAGE SUSPENDED FRAMING:
   a. INSTALL IN ACCORDANCE WITH ASTM C754, UNLESS INDICATED OR SPECIFIED OTHERWISE.
   b. SUSPEND CEILING FROM OVERHEAD STRUCTURAL ELEMENTS ONLY. DO NOT SUPPORT FROM ANY ELECTRICAL, HVAC, PLUMBING, OR SPRINKLER SYSTEM COMPONENTS.
   c. SPACE CARRYING CHANNELS 4 FEET ON CENTER WITH SPLICES LAPPED 12 INCHES AND TIED.
   d. SUPPORT COLD ROLLED CARRYING CHANNELS WITH HANGER WIRES SPACED AT 3 FEET ON CENTER FOR LATH AND PLASTER CEILINGS AND 4 FEET ON CENTER FOR GYPSUM BOARD CEILINGS. LOOP HANGER WIRE AROUND SUPPORT ELEMENT AND TIGHTLY WRAP AROUND VERTICAL WIRE 3 TIMES; CUT OFF NEATLY.
   e. SPACE FURRING CHANNELS 16" O.C. WITH SPLICES LAPPED 12", MINIMUM AND TIED; CLIP OR SADDLE TIE TO RUNNER CHANNELS WITH 16-GAGE TIE WIRE.
   f. WHERE OVERHEAD OBSTRUCTIONS PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSION SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED FRAMING COMPONENTS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
6. STABILIZE SUSPENDED CEILING, SOFFIT, AND FASCIA FRAMING AGAINST LATERAL MOVEMENT BY MEANS OF DIAGONAL BRACING. AT LOCATIONS WHERE PARTITIONS EXTEND TO CEILING, ONLY, INSTALL SUPPLEMENTARY BRACING AT MAXIMUM 8'_0" O.C. ALONG LENGTH OF PARTITION, AND ABOVE EACH DOOR HINGE AND STRIKE JAMB.
7. FORM OPENINGS IN CEILINGS AND FRAME OPENINGS FOR RECESSED LIGHT FIXTURES, AIR DIFFUSERS, ACCESS DOORS, HATCHES, ETC.
8. INSTALL SUPPLEMENTARY HANGER WIRES FOR SUPPORT OF CEILING MOUNTED EQUIPMENT.

F. BACKING:
1. PROVIDE STEEL BACKING WHERE INDICATED. AT THE CONTRACTORS'S OPTION STEEL BACKING PLATES MAY BE SUBSTITUTED FOR WOOD BLOCKING, EXCEPT WOOD BLOCKING SHALL BE USED AT THE FOLLOWING LOCATIONS: HANDRAILS, RRAILINGS AND GRAB BARS.
2. UNLESS INDICATED OTHERWISE, STEEL BACKING SHALL CONSIST OF MINIMUM 4 INCH WIDE 16 GAGE STEEL PLATE SCREWED RIGIDLY TO THE STUDS.

G. INSTALLATION TOLERANCES:
1. INSTALL MEMBERS TO PROVIDE SURFACE PLANE WITH MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET IN ANY DIRECTION.
2. LOCATE ASSEMBLIES WITHIN 1/4 INCH OF REQUIRED LOCATIONS.

092813 – CEMENTITIOUS SHEATHING PANELS

A. SECTION INCLUDES: WOOD FIBER REINFORCED CEMENT BOARD SHEATHING.

B. WOOD FIBER REINFORCED CEMENT BOARD PANELS
1. BOARD MATERIAL: "VIROC CEMENT BONDED PARTICLE BOARD" BY VIROC NY (646-807-9438) 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT AND PINE WOOD FIBER PANEL; UNSANDED; BLACK.
2. FASTENERS: AS RECOMMENDED BY THE BACKER BOARD MANUFACTURER; THREAD FORMING SELF-DRILLING WAFER HEAD SCREWS; POLYMER COATED OR ZINC PLATED; USG "DUROCK SCREWS," "ROCK-ON," OR APPROVED.

C. FINISHING
1. BOARDS SHALL BE FINISHED UNDER SECTION 099000. INITIAL COAT SHALL BE APPLIED TO ALL FACES AND EDGES OF BOARDS PRIOR TO INSTALLATION.

D. EXAMINATION
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE.
2. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
3. DO NOT BEGIN WORK UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

E. INSTALLATION
1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.
3. ATTACH UNITS WITH SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.

INSTALL BOARDS WITH 1/8 TO 3/16 GAPS AT END TO END JOINTS. STAGGER BOARD JOINTS WITH THOSE OF ADJACENT ROWS.

092900 GYPSUM BOARD

A. QUALITY CONTROL: PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED. ASSEMBLIES SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES

B. MATERIALS:
1. GYPSUM BOARD:
   a. 5/8 INCH THICK UNLESS NOTED OTHERWISE; PROVIDE TYPE X IN FIRE RATED PARTITIONS.
   b. STANDARD BOARD: ASTM C36.
   c. WATER RESISTANT BOARD: ASTM C630.
2. ACCESSORIES:
   a. TRIM: CONCEALED FLANGE SCREW-ON TYPE; METAL OR PVC AT CONTRACTOR'S OPTION; GA 216.
   b. JOINT COMPOUND, TAPE, AND FINISHING COMPOUND: ASTM C475 AND GA 216.
   c. SCREWS: ASTM C1002.

C. INSTALLATION:
1. INSTALLATION STANDARD: UNLESS SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH GYPSUM ASSOCIATION 216, "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD."
2. INSTALL MOISTURE RESISTANT BOARD RESTROOM WALLS AS A SUBSTRATE FOR SURFACES SCHEDULED TO RECEIVE CERAMIC TILE IN TOILET COMPARTMENTS.
3. INSTALL MOISTURE RESISTANT BOARD FOR FIRST 24 INCHES AFF IN KITCHEN AND THROUGHOUT IN RESTROOMS EXCEPT WHERE CEMENTITIOUS BOARD TILE SUBSTRATE IS INDICATED.
4. INSTALL ABUSE-RESISTANT BOARD WHERE INDICATED.
5. SCREW FASTEN BOARD TO FRAMING, UNLESS APPROVED OTHERWISE.
6. TRIM:
   a. USE LONGEST PRACTICAL LENGTHS, WITH NO PIECE LESS THAN 2 FEET LONG FOR CONTINUOUS RUNS GREATER THAN 8 FEET. SECURELY FASTEN AND ALIGN TRIM ENDS AT JOINTS.
   b. PLACE CONCEALED FLANGE CORNER BEADS AT ALL EXTERNAL CORNERS. AT ANGLES OTHER THAN 90 DEGREES, BEND THE FLANGE TO CONFORM TO THE ANGLE.
   c. PLACE CONCEALED FLANGE TYPE L TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.

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CONSULTANT

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MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-904
ARCHITECTURAL SPECIFICATION

CHECKED: EM DRAWN: AL

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

d. USE J TRIM AT EXPOSED GYPSUM BOARD EDGES [(INCLUDING LIGHT COVES)]WHERE SEALANT JOINT IS INDICATED.

7. CONTROL JOINTS:

a. POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.

b. POSITION CONTROL JOINTS AT LOCATIONS WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.

c. LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "L," "U," "T," OR OTHER IRREGULARLY SHAPED AREAS.

8. FINISHING:

a. PROVIDE FINISHING IN ACCORDANCE WITH GA 214.

b. WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM BOARD.

c. LEVELS OF FINISH:

1) LEVEL 5: PROVIDE AT THE FOLLOWING LOCATIONS:

a) SURFACES PERPENDICULAR AND ADJACENT TO OR NEAR (WITHIN 24 INCHES OF) EXTERIOR WINDOWS, AND SURFACE MOUNTED LIGHT FIXTURES.

b) SURFACES TO RECEIVE DEEP TONE COLORS.

2) LEVEL 4: PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.

3) LEVEL 3: PROVIDE AT THE FOLLOWING LOCATIONS:

a) SURFACES TO RECEIVE FABRIC WALL COVERING.

b) SURFACES TO RECEIVE TEXTURED FINISHES.

4) LEVEL 2: PROVIDE AT THE FOLLOWING LOCATIONS:

a) STORAGE ROOMS.

b) MECHANICAL ROOMS.

c) JANITORS CLOSETS.

d) SURFACES TO RECEIVE TILE OR OTHER THICK FINISH MATERIALS APPLIED TO GYPSUM BOARD SURFACES.

5) LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:

a) SURFACES OF FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK ("FIRE-TAPING").

b) SURFACES OF ACOUSTICAL ASSEMBLIES CONCEALED FORM VIEW IN THE FINISHED WORK

6) LEVEL 0: PROVIDE AT THE FOLLOWING LOCATIONS:

a) SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK, INCLUDING SURFACES TO BE COVERED BY CASEWORK, WOOD PANELING,

d. LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED AND TOUCH-UP SURFACE DEFECTS.

093000 TILING

A. SUMMARY:

1. INTERIOR WALL TILE.

2. INTERIOR FLOOR TILE.

3. TILE BACKER BOARD.

4. SCREEDS

5. SEALER.

B. SUBMITTALS:

1. SAMPLES:

a. TILE: SUBMIT SAMPLES OF EACH TYPE AND COLOR OF TILE. INCLUDE REPRESENTATIVE RANGE OF COLORS AND FINISHES TO BE EXPECTED.

b. GROUT: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.

c. SCREEDS: SUBMIT SAMPLES OF EACH TYPE AND FINISH OF SCREED; MINIMUM 3 INCH LENGTH.

2. PRODUCT DATA: SUBMIT FOR EACH TYPE OF TILE, GROUT, ADHESIVE, ADDITIVE, ACCESSORY, AND MEMBRANE SPECIFIED.

3. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND TILE FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.

4. SCHEDULE: SUBMIT A SCHEDULE OF EACH TILE TYPE, GROUT, AND JOINT WIDTH COMBINATION PROPOSED.

C. QUALITY ASSURANCE:

1. CONFORM TO ANSI STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE.

D. TILE:

1. TILE TYPES: TYPES AS INDICATED ON THE DRAWINGS.

2. SPECIAL SHAPES: UNLESS OTHERWISE INDICATED OR SPECIFIED, FURNISH SPECIAL SHAPES AS STANDARD WITH THE TILE MANUFACTURER FOR UNIFORM TRANSITIONS AND CONCEALED EDGES IN THE FINISHED INSTALLATION. SPECIAL SHAPES INCLUDE BULLNOSES, DOUBLE BULLNOSES, CORNER BULLNOSES, AND COVE ASSEMBLIES.

E. ACCESSORY MATERIALS:

1. SETTING MATERIALS:

a. THINSET MORTAR: "KERABOND" WITH "UNIVERSAL KERALASTIC" BY MAPEI CORP., "211 CRETE FILLER POWDER" WITH 4237 LATEX THIN-SET MORTAR ADDITIVE," BY LATICRETE INTERNATIONAL, INC., HYDROMENT"TILE-MATE PREMIUM" WITH "447 FLEX-A-LASTIC" BY BOSTIK, OR APPROVED.

b. RAPID-SET THIN BED MORTAR: "GRANI/RAPID" WITH "KER 318" FLEXIBLE ADMIXTURE" BY MAPEI CORP., HYDROMENT "SINGLE FLEX FS," BY BOSTIK, OR "211 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET MORTAR ADDITIVE" AND "101 RAPID SET LATEX"(PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED)," BY LATICRETE INTERNATIONAL, INC..

2. EPOXY GROUT: MAPEI "KERAPOXY," HYDROMENT "COLOR-POXY," BY BOSTIK, LATICRETE INTERNATIONAL INC. "LATAPOXY SP100," OR APPROVED. COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.

3. HIGH HEAT GROUT: TEC ACCUCOLOR EFX® EPOXY SPECIAL EFFECTS GROUT. HTTPS://WWW.TECSPECIALTY.COM/PRODUCTS/GROUTS/ACCUCOLOR-EFX-EPOXY-SPECIAL-EFFECTS-GROUT/

4. TILE BACKER BOARD AND ACCESSORIES:

a. BOARD: 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT PANEL, REINFORCED WITH GLASS FIBER MESH. "WONDERBOARD" BY CUSTOM BUILDING PRODUCTS (800-272-8786), "DUROCK INTERIOR" BY USG, AND GEORGIA PACIFIC "DENS-SHIELD," OR APPROVED..

b. TAPE FOR GLASS MESH BOARD: OPEN WEAVE GLASS MESH JOINT TAPE, SELF-ADHESIVE; 2-1/2 INCHES WIDE.

c. FASTENERS: AS RECOMMENDED BY THE BACKING BOARD MANUFACTURER; THREAD FORMING SELF-DRILLING WAFER HEAD SCREWS; POLYMER COATED OR ZINC PLATED; USG "DUROCK SCREWS," "ROCK-ON," OR APPROVED.

5. CRACK ISOLATION MEMBRANE: ONE OF THE FOLLOWING.

a. "NOBLESEAL CIS," BY THE NOBLE COMPANY; REINFORCED CPE SHEET MEMBRANE; 36" WIDTH; NOBLEBOND 21 ADHESIVE.

b. "DAL-SEAL CIS." BY DAL-TILE CORP.

c. "ECB MEMBRANE," BY N.A.C. PRODUCTS INC.; SELF BONDING REINFORCED MODIFIED ASPHALT SHEET MEMBRANE; 36" WIDTH.

d. "MAPELASTIC SM" BY THE MAPEI CORP.

6. METAL SCREED: AS MANUFACTURED BY SCHLÜTER SYSTEMS, INC. (800/225-8902), OR CERAMIC TOOL COMPANY, (800/236-5230); STAINLESS STEEL TILE EDGING TRIM; SIZES AS REQUIRED FOR INSTALLATION OF TOP OF SCREED FLUSH WITH TOP OF TILE.

F. PREPARATION:

1. CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, AND OTHER MATERIALS WHICH WOULD IMPAIR BOND.

G. CRACK ISOLATION MEMBRANE

1. INSTALL CRACK ISOLATION MEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.

2. PROVIDE CRACK ISOLATION MEMBRANE AT FOLLOWING LOCATIONS:

a. AT CONTROL AND CONSTRUCTION JOINTS IN CONCRETE FLOORS.

b. AT CHANGES IN SUBSTRATE MATERIALS.

c. ON EACH SIDE OF BUILDING FLOOR JOINT COVER ASSEMBLIES INSTALLED IN GROUTED POCKETS; EXTEND A MINIMUM OF 12 INCHES BEYOND GROUTED POCKET.

d. SHRINKAGE CRACKS 1/16 INCH OR LARGER IN SLABS.

3. EXTEND A MINIMUM OF 12 INCHES EACH SIDE OF CRACK OR JOINT.

4. DO NOT APPLY CRACK ISOLATION MEMBRANE AT JOINTS WHICH WILL BE REFLECTED AS EXPANSION JOINTS IN THE TILE.

5. SUBSTRATE EXAMINATION:

a. SUBSTRATES ARE SUBJECT TO EXAMINATION BY THE OWNER AND THE ARCHITECT PRIOR TO INSTALLATION OF TILE OR SLAB LEVELING MATERIALS. FURNISH A MINIMUM OF 7 DAYS NOTICE.

b. THE EXAMINATION WILL DETERMINE THE NEED FOR ADDITIONAL CRACK ISOLATION MEMBRANE AT SHRINKAGE CRACKS AND OTHER SPECIAL CONDITIONS.

H. SLAB LEVELING

1. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ABRUPT CHANGES IN PLANE.

2. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER. SUBMIT MANUFACTURER'S LETTER OF APPROVAL TO THE ARCHITECT, AND THE OWNER'S REPRESENTATIVE.

3. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.

I. TILE BACKER BOARD INSTALLATION:

1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHIMS AS NECESSARY TO ALIGN BACKER BOARD WITH ADJACENT SUBSTRATES.

2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.

3. SCREWS ATTACH UNITS WITH 1 INCH LONG DRYWALL SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.

4. INSTALL FIBERGLASS REINFORCING TAPE AT JOINTS BETWEEN PANELS. COMPLETELY EMBED IN A THIN SET MORTAR BED. TROWEL MORTAR SMOOTH WITH ADJACENT SURFACES.

J. INSTALLATION OF TILE:

1. INTERIOR FLOOR APPLICATION – THINSET OVER CONCRETE SUBSTRATE AND CONCRETE SUBSTRATES WITH WATERPROOF MEMBRANE.

a. TCNA SYSTEM: F113 OR F122 AT WATERPROOF MEMBRANES.

b. INSTALLATION STANDARD: ANSI A108.5.

c. SETTING MATERIALS: THINSET MORTAR; 3/32 INCH MINIMUM THICKNESS.

2. WALL APPLICATION – GYPSUM BOARD SUBSTRATE:

a. TCA SYSTEM: SIMILAR TO W243.

b. INSTALLATION STANDARD: ANSI A108.5.

c. SETTING MATERIALS: THINSET MORTAR.

3. WALL APPLICATION – TILE BACKER BOARD:

a. TCA SYSTEM: SIMILAR TO W244.

b. INSTALLATION STANDARD: ANSI A108.5.

c. SETTING MATERIALS: THINSET MORTAR.

4. JOINT PATTERN:

a. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.

b. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES.

c. WHERE CUT TILES ARE NECESSARY, POSITION TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTILINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT, UNLESS INDICATED OTHERWISE.

5. TILES SHALL BE BLENDED AS REQUIRED TO AVOID PATTERN REPEATS AND "PATCHES" OF ADJOINING TILES OF DISTINCTIVE COLOR OR CHARACTER WITHIN EACH FIELD AREA. COORDINATE DISTRIBUTION OF TILES WITH THE ARCHITECT.

6. TILES WHICH EXHIBIT DIRECTIONAL PATTERNS SHALL BE SET WITH GRAIN DIRECTION AS INDICATED ON THE SHOP DRAWINGS, OR, IF NOT INDICATED, AS DIRECTED BY THE ARCHITECT.

7. INSTALL TILES ALIGNED WITH ADJACENT FINISHES, WHERE INDICATED. PROVIDE MORTAR FILL AS NECESSARY FOR PROPER ALIGNMENT.

8. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.

9. PROVIDE TEMPORARY SETTING BUTTONS AND SHIMS AS NECESSARY TO MAINTAIN A WALL TILE IN POSITION UNTIL SETTING MORTAR HAS SET.

10. TOLERANCES:

a. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.

b. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.

c. NO PORTION OF A TILE SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.

d. INSTALL TILE FIELDS LEVEL TO WITHIN TOLERANCE SPECIFIED FOR FINISHED SUBSTRATE.

11. SPECIAL REQUIREMENTS FOR LARGE FORMAT TILES (8 X 8 INCH SIZE OR LARGER):

a. WASH BACKS OF EACH TILE TO REMOVE DUST AND SOIL THAT WOULD COMPROMISE ADHESION.

b. DAMPEN SUBSTRATE AS NECESSARY TO PREVENT EXCESSIVE SUCTION.

c. KEY THE MORTAR INTO THE SUBSTRATE WITH THE FLAT SIDE OF THE TROWEL.

d. COMB MORTAR OVER THE PREVIOUSLY KEYED SUBSTRATE IN ONE DIRECTION USING THE NOTCH SIDE OF THE TROWEL.

e. FIRMLY PRESS EACH TILE INTO THE MORTAR. PRESS DOWN AND MOVE THE TILE BACK AND FORTH PERPENDICULARLY ACROSS THE RIDGES APPROXIMATELY 1/8 TO 1/4 INCH TO FLATTEN THE RIDGES AND FILL IN THE VALLEYS OF THE COMBED MORTAR.

f. SET TILES IN ACCURATE ALIGNMENT.

12. SCREED INSTALLATION:

a. INSTALL SCREEDS AT TILE FIELD EDGES AT THE LOCATIONS INDICATED.

b. ACCURATELY CUT TO LENGTH FOR FLUSH TIGHTLY BUTTED JOINTS. PROVIDE MITER CUT ANGLE JOINTS. REMOVE BURRS AT FIELD CUTS.

c. INSTALL IN LONGEST POSSIBLE LENGTHS, EXCEPT THAT NO SCREED SECTION SHALL BE LONGER THAN 12 FEET OR SHORTER THAN 4 FEET IN LENGTH FOR CONTINUOUS RUNS GREATER THAN 16 FEET.

d. INSTALL SCREEDS FREE FROM WAVES AND VARIATIONS IN HEIGHT, FLUSH WITH TOP OF ADJACENT TILE SURFACES.

e. SET SCREEDS DIRECTLY IN SETTING BED AS THE TILE INSTALLATION PROCEEDS. COMPLY WITH SCREED MANUFACTURER'S INSTRUCTIONS TO ACHIEVE MORTAR TIGHTLY COMPACTED BETWEEN SCREED AND TILE EDGE.

f. GRIND SCREED JOINTS AS NECESSARY TO CORRECT MINOR MISALIGNMENT AND TO EASE SHARP OUTSIDE CORNERS.

K. GROUTING:

1. COMPLY WITH PROVISIONS OF ANSI A108.10.

2. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3. GROUT ALL JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.

4. REMOVE EXCESS GROUT FROM TILE SURFACES IN ACCORDANCE WITH THE GROUT AND TILE MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.

5. PROTECT ADJACENT SURFACES FROM DAMAGE CAUSED BY CLEANING AGENTS. DO NOT USE CLEANERS WHICH WOULD DAMAGE TILE OR GROUT SURFACES.

6. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS, INCLUDING INSIDE RIGHT ANGLE CORNER JOINTS BETWEEN FLOORS AND WALLS OF COLUMN BASES. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH TILE EDGES.

7. CURED GROUT JOINTS SHALL BE MADE FREE OF EFFLORESCENCE, PRIOR TO SEALING.

L. CURING: CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT TILE AND GROUT DURING CURING OPERATIONS.

M. PROTECTION:

1. PROTECT TILE INSTALLATIONS FROM DAMAGE.

2. REPLACE ALL DAMAGED TILES.

N. CLEANING:

1. IN ACCORDANCE WITH SECTION 015000 AND SECTION 017700.

2. COORDINATE FINAL CLEANING WITH WORK OF SECTION 079200. DO NOT BEGIN CLEANING OPERATIONS UNTIL TILE EXPANSION JOINTS SEALANTS ARE FULLY CURED.

3. PRIOR TO SUBSTANTIAL COMPLETION, WASH AND THOROUGHLY RINSE ALL TILE. LEAVE ALL TILE SURFACES CLEAN.

095123 ACOUSTICAL TILE CEILINGS

A. SUBMITTALS:

1. SUBMIT PRODUCT LITERATURE FOR EACH ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM PROPOSED.

B. QUALITY ASSURANCE:

1. CODES: COMPLY WITH THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

C. PRODUCTS:

1. CEILING TILE: AS SCHEDULED ON THE DRAWINGS.

2. SUSPENSION SYSTEM: EXPOSED T SYSTEM: ASTM C635, HEAVY DUTY CLASSIFICATION; DIRECT HUNG; EXPOSED "T" DESIGN; FACTORY BAKED ON FINISH TO MATCH ACOUSTICAL PANELS. FURNISH STABILIZER BARS, SPLICES, EDGE AND WALL MOLDINGS, AND OTHER ITEMS AS NECESSARY TO COMPLETE SUSPENDED CEILING GRID SYSTEM.

D. INSTALLATION:

1. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.

2. INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. INSTALL GRID TO PRODUCE FINISHED CEILING TRUE TO LINES AND LEVELS INDICATED, WITHIN THE SPECIFIED TOLERANCES. CENTER SYSTEM ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.

4. ANCHORAGE:

a. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM.

b. HANG SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSIONS SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.

c. DO NOT FASTEN TO THE UPPER FLUTES OF METAL DECKING. DO NOT USE FASTENERS IN STEEL DECK WHICH PENETRATE MORE THAN 1 INCH.

5. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. MITER CORNERS. PROVIDE EDGE MOLDINGS AT JUNCTIONS WITH OTHER INTERRUPTIONS. FABRICATE EDGE MOLDINGS TO FIT THE SURFACES ENCOUNTERED.

6. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND MILL RECESSED TEGULAR EDGE INTO PARTIAL BORDER UNITS SUPPORTED AT EDGE BY WALL MOLDING.

7. ADJUST SAGS OR TWISTS WHICH DEVELOP IN THE CEILING SYSTEM AND REPLACE PARTS WHICH ARE DAMAGED OR DEFECTIVE.

8. HOLD-DOWN CLIPS: INSTALL HOLD-DOWN CLIPS WITHIN 20 FEET OF AN EXTERIOR DOOR.

9. TOLERANCES:

a. VARIATION FORM FLAT AND LEVEL SURFACE: 1/8 INCH IN 10 FEET.

b. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: TWO DEGREES MAXIMUM.

095426 – LINEAR WOOD WALL AND SOFFIT PANELS

SECTION INCLUDES: WOOD SLAT WALL AND SOFFIT SYSTEM.

B. SUBMITTALS

1. PRODUCT DATA: MANUFACTURER'S PRODUCT DATA FOR WOOD SLAT SYSTEM.

2. SHOP DRAWINGS: INCLUDE LAYOUT, SLAT PROFILES, ALL TYPICAL AND SPECIAL DETAILS, SUSPENSION DETAILS, END CONDITIONS AND TRIM, AND RELATIONSHIP TO ADJACENT CONSTRUCTION.

3. SAMPLES: SUBMIT APPROXIMATE 9 X 11 INCH SAMPLES OF WOOD SLAT SHOWING PROPOSED WOOD SPECIES AND FINISH. SUBMIT ADDITIONAL SAMPLES AS REQUIRED TO SHOW MAXIMUM RANGE OF COLOR AND GRAIN TO BE EXPECTED.

4. CERTIFICATES: SUBMIT MANUFACTURER'S CERTIFICATION THAT WOOD MATERIALS MEET THE SPECIFIED FLAME SPREAD REQUIREMENTS.

C. QUALITY ASSURANCE

1. INSTALLER QUALIFICATIONS: APPROVED BY THE WOOD SLAT MATERIALS MANUFACTURER.

D. DELIVERY, STORAGE, AND HANDLING

1. DO NOT DELIVER WOOD MATERIALS TO THE BUILDING UNTIL "WET" WORK SUCH AS GYPSUM WALLBOARD WORK HAS BEEN COMPLETED.

E. PROJECT CONDITIONS

1. MAINTAIN UNIFORM 50 – 70 DEGREE F. TEMPERATURE RANGE IN WORK SPACES FOR 24 HOURS PRIOR TO, DURING, AND 24 HOURS AFTER INSTALLATION.

F. MANUFACTURER

1. 9WOOD (SPRINGFIELD OR; 888_767_9990).

G. COMPONENTS

1. CEILING SUSPENSION COMPONENTS: FURNISH EXPOSED "T" BAR SYSTEM AS SPECIFIED IN SECTION 095123

2. WALL ATTACHMENT COMPONENTS: MANUFACTURER'S STANDARD CLIP RAIL AND ATTACHMENT CLIPS. SYSTEM SHALL BE DESIGNED FOR SNAP REMOVAL AND REPLACEMENT OF INDIVIDUAL WOOD SLATS.

3. WOOD SLATS:

a. TYPE: "PANELIZED LINEAR WOOD GRILLE" 2114-3.

b. VERTICAL GRAIN DOUGLAS FIR; SMOOTH TEXTURE.

c. SHOP FINISH: NATURAL FINISH; CLEAR INTUMESCENT FINISH; CLASS I FIRE RATING; FINISHED 4 SIDES AND EDGES.

d. TOLERANCES:

1) CROOK: 1/4 INCH IN 8 FEET.

2) WARP: 1/4 INCH IN 8 FEET.

3) TWIST: 1/8 INCH IN 8 FEET.

4. ACOUSTIC INSULATION: MANUFACTURER'S STANDARD ACOUSTIC FABRIC BACKER.

H. FABRICATION

1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

I. EXAMINATION

1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.

2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

J. SUSPENSION SYSTEM INSTALLATION

1. INSTALL SUSPENSION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 095123, AND AS REQUIRED TO ACCOMMODATE WOOD SLAT CEILING SYSTEM.

K. WOOD SLAT PANEL INSTALLATION

1. INSTALL WOOD SLAT PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH THE LAYOUT APPROVED ON THE SHOP DRAWINGS.

2. INSTALL LEVEL, FLUSH, PLUMB, AND IN STRAIGHT LINE COURSES WITH EVENLY SPACED JOINTS BETWEEN SLATS.

3. NEATLY CUT AROUND AND TRIM OPENINGS.

4. TOLERANCES:

a. FLATNESS: FLAT WITHIN A TOLERANCE OF 1/8 INCH IN 12 FEET, WITH NO ABRUPT VARIATIONS.

CURVATURE: NO MORE THAN 1/8 INCH OUT OF ALIGNMENT OF THE REQUIRED ARC, WITH NO ABRUPT VARIATIONS IN CURVATURE

096500 RESILIENT FLOORING

A. SUMMARY:

1. RESILIENT BASE.

B. SUBMITTALS:

1. SUBMIT PRODUCT LITERATURE FOR EACH PRODUCT PROPOSED, INCLUDING BASE, RESILIENT FLOORING, TRANSITION STRIPS, AND ADHESIVES.

2. SUBMITTALS: SUBMIT SAMPLES OF EACH TYPE OF RESILIENT FLOORING, AND EACH TYPE OF RUBBER BASE FOR COLOR SELECTION BY THE INTERIOR DESIGNER.

C. MATERIALS:

1. RUBBER BASE:

a. MANUFACTURER: ONE OF THE FOLLOWING, SUBJECT TO ARCHITECT'S APPROVAL OF COLOR:

1) ROPPE RUBBER CORP.

2) BURKE FLOORING PRODUCTS / BURKE INDUSTRIES.

3) ALLSTATE RUBBER CORP.

b. RESILIENT BASE: ASTM F1861, TYPE TS, 100 PERCENT VULCANIZED RUBBER; 1/8 INCH THICK; ROLL STOCK; COVED AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

c. ACCESSORIES:

1) PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.

D. RUBBER BASE INSTALLATION:

1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. FIT JOINTS TIGHT, VERTICAL, AND IN ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MINIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 48 INCHES, EXCEPT AS REQUIRED BY WALL CONDITIONS.

3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK TOE KICKS IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.

4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.

5. OUTSIDE CORNERS:

a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.

b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.

c. STRETCH TOE OF COVED BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.

6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.

E. CLEANING

1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.

2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

097733 REINFORCED PLASTIC PANEL WALL COVERINGS

A. SUMMARY: FIBERGLASS REINFORCED POLYESTER PANEL (FRP) WALL COVERING.

B. SUBMITTALS: PRODUCT DATA.

C. PANEL SYSTEM COMPONENTS:

1. PANEL MATERIAL:

a. MARLITE BRAND CLASS I/A FIRE RATED FRP BY MARLITE (DOVER, OH 330/343-6621); COLOR AS SCHEDULED IN THE FINISH LEGEND.

b. PANEL TYPE: FIBERGLASS REINFORCED POLYESTER PANELS, WITH EMBOSSED TEXTURED FACE.

c. THICKNESS: 3/32 INCH.

d. SIZE: 48 INCHES X LENGTH REQUIRED FOR CONDITIONS INDICATED.

e. FIRE RATING: MAXIMUM 25/450 FLAME SPREAD / SMOKE DEVELOPED IN ACCORDANCE WITH ASTM E84.

2. MOLDINGS: MANUFACTURER'S STANDARD PVC CAP, CORNER, AND DIVISION MOLDINGS; COLOR TO MATCH PANELS. OMIT BOTTOM TRIM WHERE PANEL ABUTS FLASH COVED BASE.

3. PANEL AND MOLDING INSTALLATION ADHESIVE: AS RECOMMENDED BY THE FRP PANEL MANUFACTURER.

4. SEALANT: FLEXIBLE WATERPROOF SILICONE SEALANT FOR BEDDING PANEL EDGES; WHITE COLOR.

D. CUTTING AND FITTING

1. CUT PANELS ACCURATELY TO SIZE WITH PROPER ALLOWANCE FOR EXPANSION AND MOLDINGS.

2. SAND OR FILE ALL EDGES SMOOTH WITHOUT CHIPPING.

3. CUT OPENINGS FOR PENETRATIONS IN ACCURATE LOCATION WITH APPROXIMATE 1/8-INCH CLEARANCE AROUND PENETRATIONS.

E. INSTALLATION

1. ESTABLISH CENTERLINE OF EACH DISTINCT FLAT AREA TO BE COVERED. TRIM DIVISION MOLDINGS TO MATE WITH BASE MOLDINGS; INSTALL IN SOLID BED OF ADHESIVE, EITHER ON CENTERLINE, OR OFFSET 24 INCHES FROM CENTER, AS NECESSARY TO MAXIMIZE PANEL WIDTHS AT CORNERS. MOLDING SHALL BE INSTALLED STRAIGHT AND PLUMB.

2. CUT TOP CAP AND DIVISION OR CORNER MOLDINGS TO SHAPE, WITH EDGES TRIMMED TO FIT TO ADJACENT MOLDINGS.

3. APPLY SEALANT INTO INSTALLED MOLDINGS IN SEQUENCE WITH PANEL INSTALLATION.

4. APPLY ADHESIVE TO BACKS OF PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

5. MAINTAIN LINES AND LEVELS OF PANEL EDGES AND MOLDINGS.

6. INSTALL PANELS TIGHT TO FLASH-COVED BASE TRIM.

7. ALLOW 1/8-INCH GAP BETWEEN TOP CAP, CORNER, OR DIVISION MOLDING POSTS, AND PANEL EDGE; ALL EDGES SHALL BE FIRMLY BEDDED TO THE MOLDINGS IN SEALANT.

8. PROMPTLY REMOVE SEALANT SQUEEZE OUT WITH A DAMP CLOTH, AS WORK PROGRESSES; REMOVE ADHESIVE WITH APPROPRIATE SOLVENT.

9. INSTALL SEALANT BEHIND FLANGES AND AT PENETRATIONS THROUGH PANELING, AND BETWEEN TOP CAP OF PANEL AND SUBSTRATE.

F. CLEANING

1. REMOVE EXCESS ADHESIVE FROM FACE OF LAMINATE USING SOLVENT RECOMMENDED BY MANUFACTURER.

099000 PAINTING AND COATING

A. SUMMARY: SITE APPLIED PAINT COATINGS.

B. REFERENCE STANDARDS:

1. MASTER PAINTERS INSTITUTE (MPI): ARCHITECTURAL PAINTING SPECIFICATION MANUAL.

2. STEEL STRUCTURES PAINTING COUNCIL (SSPC).

C. SUBMITTALS:

1. MATERIALS LIST: ORGANIZE TO INDICATE PAINTING SYSTEMS TO BE USED WITH EACH SUBSTRATE. INCLUDE MANUFACTURER'S PRODUCT DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE SPECIFIED REQUIREMENTS. DO NOT INCLUDE MSDS SHEETS.

2. PAINT SAMPLES:

a. SUBMIT SAMPLES OF EACH PAINT FINISH ON AN 8"X10" CARD. REFERENCE MANUFACTURER, TYPE OF PAINT, COLOR, SHEEN, SUBSTRATE, AND APPLICATION.

b. FURNISH ADDITIONAL SAMPLES UNTIL ALL PAINT FINISHES ARE APPROVED.

D. QUALITY ASSURANCE:

1. APPLICATOR: COMPANY SPECIALIZING IN COMMERCIAL PAINTING AND FINISHING WITH A MINIMUM OF THREE YEARS DOCUMENTED EXPERIENCE.

2. VISUAL STANDARDS: EACH DISTINCT AREA OF THE FINISHED WORK SHALL BE FREE OF VARIATIONS IN COLOR AND SHEEN, ORANGE PEEL, RUNS, SAGS, BLISTERING, CHECKING, CRACKING, SCRATCHES, DUST, DIRT, BUGS, AND OTHER CONTAMINANTS.

E. SITE CONDITIONS:

1. WEATHER CONDITIONS:

a. DO NO EXTERIOR WORK ON UNPROTECTED SURFACES WHEN RAINING, OR OTHER MOISTURE IS PRESENT OR EXPECTED, OR BEFORE APPLIED PAINTS CAN DRY OR ATTAIN PROPER CURE.

b. ALLOW WETTED SURFACES TO DRY AND ATTAIN TEMPERATURES AND CONDITION SPECIFIED HEREINAFTER BEFORE PROCEEDING WITH PREVIOUSLY STARTED WORK.

2. TEMPERATURE:

a. DO NO PAINTING WORK WHEN SURFACE AND AIR TEMPERATURES ARE BELOW 40 DEGREES F OR BELOW THOSE TEMPERATURES RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TYPE USED.

b. MINIMUM TEMPERATURES FOR LATEX FINISHES: 45 DEGREES F FOR INTERIOR WORK AND 50 DEGREES F. FOR EXTERIOR WORK, UNLESS APPROVED OTHERWISE.

3. LIGHTING: MAINTAIN A LIGHTING LEVEL OF MINIMUM 50 FOOT-CANDLES ON THE SURFACES TO BE PAINTED OR FINISHED.

4. VENTILATION: PROVIDE ADEQUATE CONTINUOUS VENTILATION.

F. MAINTENANCE:

1. FURNISH OVERAGE OF PAINT MATERIALS EQUAL TO 10 PERCENT MINIMUM OF QUANTITY OF EACH PAINT AND TRANSPARENT FINISH SYSTEM COMPONENT, COLOR AND SHEEN REQUIRED FOR THE WORK, BUT FURNISH NOT MORE THAN FIVE FULL ONE GALLON CANS, NOR LESS THAN TWO FULL ONE QUART CANS, OF EACH TYPE. OVERRUNS IN EXCESS OF FIVE GALLONS MAY BE FURNISHED TO THE TENANT AT THE CONTRACTOR'S OPTION. OVERAGE SHALL BE TAKEN FROM THE BATCH MIX FURNISHED FOR THE WORK. OVERAGE SHALL BE FURNISHED IN COMPLETELY FILLED, PROPERLY LABELED, SEALED CANS.

G. MATERIALS:

1. GENERAL REQUIREMENTS: PAINTS NOT SPECIFICALLY LISTED SHALL BE "FIRST QUALITY" COMMERCIAL PRODUCTS FROM ONE OF THE FOLLOWING:

a. BENJAMIN MOORE PAINT COMPANY. (AVAILABLE NATIONALLY)

b. PITTSBURGH PAINTS. (AVAILABLE NATIONALLY)

c. PRATT & LAMBERT. (AVAILABLE NATIONALLY)

d. THE SHERWIN-WILLIAMS COMPANY. (AVAILABLE NATIONALLY)

e. ICI PAINTS NORTH AMERICA. (AVAILABLE NATIONALLY)

2. GALVANIZED FERROUS METAL – EPOXY/POLYURETHANE SYSTEM: ONE OF THE FOLLOWING

a. MANUFACTURER: TNEMEC COMPANY INC. (KANSAS CITY, MO; 816-483-3400).

1) EPOXY PRIMER: "HI-BUILD EPOXOLINE II" SERIES N69.

2) POLYURETHANE FINISH COATS: SERIES 1075 "ENDURA-SHIELD II"; SATIN SHEEN.

b. MANUFACTURER: CARBOLINE COMPANY (ST. LOUIS, MO; 314-644-1000; 800-848-4645).

1) EPOXY PRIMER: "CARBOLINE 888 "

2) POLYURETHANE FINISH COATS: CARBOLINE 133 HB; SEMI-GLOSS OR SATIN SHEEN.

c. MANUFACTURER: AMERON PROTECTIVE COATINGS (BREA, CA; 714-529-1951).

1) EPOXY PRIMER: "AMERCOAT 385."

2) POLYURETHANE FINISH COATS: AMERCOAT 450SA"; SEMI-GLOSS OR SATIN SHEEN.

d. MANUFACTURER: ICI DEVOE.

1) EPOXY PRIMER: "DEVRAN 224HS," "BAR-RUST 231," OR "BAR-RUST 233H."

2) POLYURETHANE FINISH COATS: "DEVTHANE 378"; SEMI-GLOSS OR SATIN SHEEN.

3. INTERIOR TRIM SYSTEMS – METAL SUBSTRATE: ONE OF THE FOLLOWING.

a. MANUFACTURER: ICI DEVOE

1) METAL PRIMER: "MIRROLAC" DP 8502 WB; DTM WATERBORNE PRIMER.

2) FINISH: DR3349 "WONDERPURE SG."

b. MANUFACTURER: ICI DULUX

1) METAL PRIMER: "DEVFLEX" 4020 DTM WATERBORNE PRIMER.

2) FINISH: LM9200 "LIFEMASTER 2000" S.G.

c. MANUFACTURER: SHERWIN-WILLIAMS

1) METAL PRIMER: "PRO INDUSTRIAL PRO-CRYL B66" UNIVERSAL ACRYLIC PRIMER

2) 2.5 – 5.0 MILS DFT 138 G/L VOC

3) FINISH: PRO CLASSIC WATERBORNE SEMI-GLOSS 1.4 MILS DFT 157 G/L VOC

4) METAL PRIMER: (DTM WATERBORNE). SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS ENAMEL (P29)

5) FINISH: (SEMI-GLOSS) SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS ENAMEL (P29)

d. MANUFACTURER: AMERON INTERNATIONAL.

1) METAL PRIMER: "AMERCOAT 148," WATERBORNE ACRYLIC PRIMER.

2) FINISH: "AMERCOAT 220," WATERBORNE ACRYLIC TOPCOAT; SEMIGLOSS.

4. ACRYLIC WALL SIZE: ONE OF THE FOLLOWING:

a. ICI DEVOE "WONDERPRIME" DR51701 VAPOR BARRIER PRIMER/SEALER.

b. ICI DULUX "ULTRA-HIDE" 1060 VAPOR BARRIER PRIMER/SEALER.

c. SHERWIN-WILLIAMS "HARMONY PRIMER 0 VOC" B11W900 .

d. BENJAMIN MOORE PAINT COMPANY "MOORE'S WALL-GRIP 203."

e. PARKER PAINT MFG. CO., INC. "PERM GARD" INTERIOR LATEX VAPOR BARRIER.

f. ZINSSER CO, INC. (SOMERSET NJ; (732) 469-8100) "SHIELDZ UNIVERSAL PRE-WALL COVERING PRIMER"; ACRYLIC PRIMER/SEALER

5. CEMENTITIOUS SHEATHING PANELS:

a. MANUFACTURER: SHERWIN WILLIAMS.

b. "PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL"

6. INTERIOR WATERBORNE EPOXY SYSTEMS AT GYPSUM BOARD: ONE OF THE FOLLOWING.

a. MANUFACTURER: TNEMEC COMPANY, INC.

1) GYPSUM BOARD PRIMER: "SERIES "151 ELASTO-GRIP"

2) METAL PRIMER: "SERIES 115 UNIBOND WB"

3) FINISH COAT: "SERIES 113 TNEMEC-TUFCOAT".

b. MANUFACTURER: ICI DULUX

1) GYPSUM BOARD PRIMER: "ULTRA-HIDE AQUACRYLIC GRIPPER STAIN KILLER PRIMER-SEALER 3210-1200."

2) METAL PRIMER: "TRU-GLAZE-WB 4030 WATERBORNE EPOXY PRIMER"

3) FINISH COAT: "TRU-GLAZE 4406 WATERBORNE ACRYLIC EPOXY SEMI-GLOSS."

c. MANUFACTURER: SHERWIN-WILLIAMS

1) GYPSUM BOARD PRIMER: "PROMAR 200 ZERO VOC PRIMER""

2) METAL PRIMER: "PROCRYL PRIMER"

3) FINISH COAT: "PRO INDUSTRIAL WB CATALYZED EPOXY"

7. INTERIOR WATERBORNE URETHANE FINISH SYSTEMS AT STEEL COLUMNS: ONE OF THE FOLLOWING.

a. MANUFACTURER: TNEMEC COMPANY, INC.

1) METAL PRIMER: "SERIES 27WB TYPOXY"

2) FINISH COAT: "SERIES 1095 ENDURA SHIELD.

b. MANUFACTURER: SHERWIN-WILLIAMS

1) METAL PRIMER: "PROCRYL PRIMER"

2) FINISH COAT: "PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL

H. SURFACE PREPARATION:

1. PREPARE SURFACES BY REMOVING ALL DIRT, DUST, GREASE, OIL, MOISTURE, AND OTHER CONTAMINANTS WHICH WILL IMPAIR THE PROPER ADHESION OF THE FINISH.

2. FERROUS METAL SHOP PRIMED UNDER OTHER SECTIONS: CLEAN PREVIOUSLY PRIMED SURFACES WITH NON-PETROLEUM BASED SOLVENT TO REMOVE OIL AND GREASE. REMOVE LOOSE RUST, BLISTERED AND PEELING PAINT TO BARE METAL BY SCRAPING, SANDING, AND WIRE BRUSHING IN ACCORDANCE WITH SSPC_SP2 AND SSPC_SP3. IMMEDIATELY APPLY TOUCH UP PRIME DAMAGED OR ABRADED SURFACES. LIGHTLY SAND ALL SHOP PRIME PAINTED SURFACES TO RECEIVE PAINT FINISH.

3. GALVANIZED FERROUS METAL: CLEAN WITH NON-PETROLEUM BASED IN ACCORDANCE WITH SSPC_SP1; ABRADE SURFACE WITH 3M "SCOTCHBRITE HEAVY DUTY" (BROWN) PAD, AS NECESSARY TO ACHIEVE SUFFICIENT PROFILE FOR PAINT ADHESION.

4. UNPRIMED FERROUS METAL:

a. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1.

b. COMMERCIAL BLAST PER SSPC SP6.

5. WOOD – OPAQUE PAINT FINISH:

a. SPOT COAT KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER.

b. FILL ALL NAIL HOLES AND CRACKS. SAND FILLER SMOOTH AND LEVEL WITH WOOD SURFACE.

6. WOOD – TRANSPARENT FINISH: FILL ALL EXPOSED FINISH NAIL HOLES AND CRACKS WITH MATCHING COLOR FILLER AFTER PRIME COAT IS APPLIED. SAND FILLER SMOOTH AND LEVEL WITH ADJACENT SURFACES.

7. GYPSUM WALL BOARD: REMOVE ALL LIGHT DUST AND DIRT.

8. CEMENTITIOUS SHEATHING PANELS: REMOVE ALL CONTAMINANTS BY WASHING WITH LIGHT DETERGENT SOLUTION. DO NOT SAND.

9. EXISTING FINISHED SURFACES TO BE REPAINTED:

a. REMOVE LOOSE, BLISTERED, SCALED, OR CRAZED FINISHES TO BARE SUBSTRATE; FEATHER NEW WORK INTO EXISTING WORK. PREPARE SURFACES TO THE NEAREST BREAK LINE IF NECESSARY TO BLEND NEW FINISHES WITH OLD FINISHES.

b. WASH AND RINSE SURFACES WITH TRISODIUM PHOSPHATE AND WATER OR OTHER SOLUTION REQUIRED TO REMOVE REMAINING FILM, WAX, OIL, GREASE, SMOKE OR FOREIGN MATTER WHICH WILL IMPAIR BOND, OR CAUSE BLEED THROUGH, OF NEWLY APPLIED FINISHES.

c. LIGHTLY SAND, OR APPLY A LIQUID DEGLOSSER ON EXISTING SEMI-GLOSS AND HIGH-GLOSS FINISHES BEFORE REFINISHING

I. SPECIAL APPLICATION REQUIREMENTS:

10. UNLESS SPECIFIED OR INDICATED OTHERWISE, FOLLOW PAINT MANUFACTURER'S LABEL DIRECTIONS FOR GENERAL APPLICATION PROCEDURES AND COVERAGE RATES.

11. DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY. MAKE SURE EACH COAT OF FINISH IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.

12. TINT FILLER TO MATCH STAIN WHEN CLEAR FINISHES ARE SPECIFIED; WORK FILLER WELL INTO GRAIN AND, BEFORE IT HAS SET, WORKING PERPENDICULARLY TO THE GRAIN, WIPE THE EXCESS FROM THE SURFACE.

13. OPAQUE FINISHES:

a. APPLY NUMBER OF COATS SCHEDULED FOR EACH APPLICATION, EXCEPT THAT ADDITIONAL FINISH COATS SHALL BE APPLIED AS NECESSARY FOR COMPLETE HIDING OF SUBSTRATE COLORS.

b. APPLY PRIMER COATS UN-TINTED. WHERE MORE THAN ONE COAT OF PAINT IS REQUIRED, TINT EACH SUCCEEDING COAT UP TO THE FINAL COAT SIMILAR IN TINT, BUT SLIGHTLY LIGHTER IN VALUE (SHADE).

c. SAND LIGHTLY BETWEEN COATS IF NECESSARY TO ACHIEVE REQUIRED FINISH; SAND BETWEEN ALL COATS APPLIED TO WOOD SUBSTRATES.

5. ROLLERS FOR APPLICATION AND BACKROLLING OF LATEX PAINTS SHALL HAVE A NAP OF 3/8 INCH OR LESS.

6. WHERE ROLLER TEXTURE IS SCHEDULED FOR APPLICATION TO GYPSUM BOARD SURFACES, FINISH COATS MAY BE ROLLER-APPLIED, OR SPRAY APPLIED AND BACKROLLED AT CONTRACTOR'S OPTION.

7. FACTORY PRIMED SURFACES: APPLY SCHEDULED FINISH SYSTEM, LESS PRIMER COAT, EXCEPT AS NECESSARY TO FOR PATCHING DAMAGE TO FACTORY PRIME COATING.

J. EXTERIOR SYSTEMS:

1. GALVANIZED METAL – EPOXY/URETHANE SYSTEM:

a. SYSTEM: RETOUCH WELDS AND DAMAGED GALVANIZED COATINGS WITH ZINC PRIMER; APPLY ONE COAT EPOXY PRIMER, AND TWO URETHANE FINISH COATS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. VERIFY COMPATIBILITY WITH SHOP APPLIED PRIMER. APPLY EPOXY PRIMER OVER ALL SHOP APPLIED PRIMERS, UNLESS THE SPECIFIED PRIMER WAS SHOP APPLIED. BRUSH, SPRAY, OR ROLLER APPLY.

b. SHEEN: SATIN, UNLESS INDICATED OTHERWISE.

c. APPLICATION: EXTERIOR GALVANIZED METAL SURFACES.

K. INTERIOR SYSTEMS:

1. GYPSUM BOARD – LATEX SYSTEM:

a. SYSTEM: THREE COATS – FIRST COAT LATEX PRIMER SEALER (UNTINTED), SECOND AND THIRD COAT LATEX PAINT.

b. SHEEN: ROLLER TEXTURE, SATIN SHEEN, EXCEPT PROVIDE FLAT SHEEN AT LIGHT COVES, CEILINGS, SKYLIGHT AREAS, CLERESTORY AREAS, INTERIOR FASCIAS, AND OTHER LIGHT SENSITIVE SURFACES. VERIFY LOCATIONS OF EACH SHEEN WITH ARCHITECT BEFORE PROCEEDING WITH WORK.

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
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PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2006…
ARCHITECT

Digitally signed by David Boyce
Date: 2022.01.05 17:43:17 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-905

ARCHITECTURAL SPECIFICATION

CHECKED: EM DRAWN: AL

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01/04/2022

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

HVAC SPECIFICATION

23 05 01.00 - COMMON REQUIREMENTS FOR HVAC

GENERAL

GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO WORK OF THIS SECTION.

SCOPE

THE BASE BID INCLUDES FURNISHING ALL MATERIALS, LABOR, TOOLS, AND EQUIPMENT AND THE PERFORMANCE OF ALL WORK REQUIRED TO INSTALL A COMPLETE HEATING AND AIR CONDITIONING SYSTEM AS OUTLINED HEREIN.

GUARANTEE

THE CONTRACTOR SHALL PROVIDE A GUARANTEE IN WRITTEN FORM STATING THAT ALL WORK UNDER THIS SECTION SHALL BE FREE OF DEFECTIVE WORK, MATERIALS, OR PARTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNER'S FINAL ACCEPTANCE AND SHALL REPAIR, REVISE OR REPLACE AT NO COST TO THE OWNER ANY SUCH DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD.

CONTRACTOR SHALL ALSO STATE IN WRITTEN FORM THAT ANY ITEMS OR OCCURRENCES ARISING DURING THE GUARANTEE PERIOD WILL BE ATTENDED TO IN A TIMELY MANNER AND WILL IN NO CASE EXCEED FOUR (4) WORKING DAYS FROM DATE OF NOTIFICATION BY OWNER.

QUALITY ASSURANCE

PROVIDE A COMPLETE INSTALLATION IN CONFORMANCE WITH THE FOLLOWING STANDARDS.

ASHRAE: AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION

SMACNA: SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

STATEWIDE BUILDING CODE

IMC: INTERNATIONAL MECHANICAL CODE

PERMITS, FEES, INSPECTIONS, LAWS AND REGULATIONS

PERMITS AND FEES OF EVERY NATURE REQUIRED IN CONNECTION WITH THIS WORK SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR WHO SHALL ALSO PAY FOR ALL THE INSTALLATION FEES AND SIMILAR CHARGES. LAWS AND REGULATIONS, WHICH BEAR UPON OR AFFECT THE VARIOUS BRANCHES OF THIS WORK SHALL BE COMPLIED WITH BY THIS CONTRACTOR AND ARE HEREBY MADE A PART OF THIS CONTRACT. ALL WORK, WHICH SUCH LAWS REQUIRE TO BE INSPECTED, SHALL BE SUBMITTED TO THE PROPER PUBLIC OFFICIAL FOR INSPECTION AND A CERTIFICATE OF FINAL APPROVAL MUST BE FURNISHED.

WORK IN EXISTING SPACES

GENERAL: CARE SHALL BE TAKEN WHEN WORKING IN EXISTING SPACES SO AS NOT TO DAMAGE EXISTING WALLS AND CEILINGS WHERE WORK IS BEING PERFORMED.

CEILINGS: WHERE WORK IS BEING PERFORMED ABOVE CEILINGS, AND THE ARCHITECTURAL DRAWINGS DO NOT INDICATE CEILING MODIFICATIONS BY THE GENERAL CONTRACTOR, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS WHERE WORK IS BEING PERFORMED. IN THOSE INSTANCES, ALL REPAIR AND INSTALLATION OF NEW GRID, CEILING PANELS, ETC SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. MATCH EXISTING FINISHES.

WALLS & FLOORS: IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PATCH EXISTING WALLS AND FLOORS AND MATCH EXISTING FINISHES WHERE WORK IS BEING REMOVED OR INSTALLED AND PATCHING IS BEING PERFORMED, UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

TESTS AND ADJUSTMENTS

NO DUCTS, PIPING, FIXTURES OR EQUIPMENT SHALL BE CONCEALED OR COVERED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY THE ARCHITECT AND THE INSPECTOR WHO SHALL BE NOTIFIED BY THE CONTRACTOR WHEN THE WORK IS READY FOR INSPECTION.

WORK SHALL BE COMPLETELY INSTALLED, TESTED AND LEAK TIGHT BEFORE INSPECTION IS REQUIRED. ALL TESTS SHALL BE REPEATED TO THE SATISFACTION OF THOSE MAKING THE INSPECTION.

23 05 03.00 - SUBMITTALS FOR HVAC

GENERAL

WHERE SUBMITTALS ARE REQUIRED BY THE CONTRACT DOCUMENTS, THEY SHALL BE PREPARED AND SUPPLIED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN ADDITION TO DIVISION 01, THE CONTRACTOR IS ADVISED TO REVIEW AND COMPLY WITH THE REQUIREMENTS ARTICULATED WITHIN EACH DIVISION AND WITHIN EACH SECTION OF THAT DIVISION.

SOME DIVISIONS MAY INCLUDE A DIVISION-SPECIFIC "SUBMITTAL REQUIREMENTS FOR …." SECTION. WHERE THIS SECTION EXISTS, IT ARTICULATES ADDITIONAL REQUIREMENTS FOR SUBMITTALS THAT APPLY TO THE WORK OF THAT DIVISION.

THE FOLLOWING REQUIREMENTS HELP TO IDENTIFY, TRACK AND KEEP THE PROJECT ORGANIZED FOR ALL PARTIES INVOLVED. THEY ARE NECESSARY TO ENSURE A TIMELY TURNAROUND AND AN APPROPRIATE TECHNICAL REVIEW. SUBMITTALS THAT DO NOT CONFORM TO THE ADMINISTRATIVE REQUIREMENTS ARE REJECTED AND RETURNED, WITHOUT TECHNICAL REVIEW.

REQUIREMENTS

SUPPLY SUBMITTALS FOR EACH SECTION: SUBMITTALS SHALL BE SUPPLIED ON A SECTION-BY-SECTION AND TYPE-BY-TYPE BASIS. FOR EXAMPLE, INDEPENDENT PRODUCT DATA SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES PRODUCT DATA SUBMITTALS. INDEPENDENT SHOP DRAWING SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES SHOP DRAWINGS. REFER TO THE SPECIFICATIONS FOR IDENTIFICATION OF WHICH SUBMITTALS ARE REQUIRED FOR THE PROJECT. SEPARATE PDF FILE PACKAGES SHALL BE SUPPLIED FOR EACH SECTION, FOR EACH SUBMITTAL TYPE, WHERE ELECTRONIC SUBMITTALS ARE REQUIRED. EACH PDF SHALL REPRESENT A SINGLE STANDALONE SUBMITTAL.

SEPARATELY BOUND AND IDENTIFIED SUBMITTALS SHALL BE PROVIDED WHERE HARDCOPIES ARE REQUIRED.

INCLUDE A TRANSMITTAL: TRANSMITTALS SHALL ENUMERATE EACH SUBMITTAL FOR EACH SECTION OF EACH TYPE AND ITERATION.

INCLUDE COVER SHEET / TITLE PAGE: THE COVER SHEET SHALL INCLUDE THE INFORMATION IDENTIFIED IN THE CONTRACT DOCUMENTS. IT SHALL BE INCLUDED AS THE FIRST PAGE OF EACH ELECTRONIC AND/OR HARDCOPY DOCUMENT-BASED SUBMITTAL. AN EDITABLE AND PRINTABLE PDF FORM CREATED WITH EDITABLE FIELDS AND SPECIFICATION COMPLIANT APPEARANCE IS AVAILABLE FROM KLH UPON REQUEST. IT IS ALSO DOWNLOADABLE FROM THE KLH WEBSITE AT WWW.KLHENGRS.COM.

INCLUDE AN INDEX: THE INDEX SHALL ENUMERATE THE CONTENTS OF THE SUBMITTAL.

INCLUDE CHECKLISTS: WHERE CHECKLISTS ARE INCLUDED WITH THE SPECIFICATIONS, COMPLETE AND INCLUDE THEM WITHIN THE APPROPRIATE SUBMITTAL. SUPPLY COMPLETE SUBMITTALS: COMPLETE SUBMITTALS OF EACH TYPE ARE REQUIRED. PARTIAL SUBMITTALS WILL BE REJECTED.WHERE A SECTION REQUIRES A PRODUCT DATA SUBMITTAL, ALL PRODUCT DATA FOR THAT SECTION SHALL BE SUPPLIED TOGETHER, AT ONE TIME, AS ONE COMPLETE SUBMITTAL. DO NOT SEND HALF THE PRODUCT DATA AS ONE SUBMITTAL AND THE OTHER HALF AS A SEPARATE ONE. WHEN RESUBMITTAL IS REQUIRED (E.G. REVISE AND RESUBMIT) THE REVISED SUBMITTAL SHALL BE MORE COMPLETE, MORE ACCURATE AND MORE CONTRACT-COMPLIANT THAN ITS REJECTED PREDECESSOR. THE SUBMITTAL NUMBER (FOR EACH SECTION AND TYPE) SHALL INCREMENT FOR EACH SUBSEQUENT SUBMITTAL (00 - ORIGINAL SUBMISSION, 01 - FIRST RESUBMISSION, 02 - SECOND RESUBMISSION, ETC…). RESUBMITTALS SHALL INCLUDE A COPY OF THE REVIEWERS COMMENTS SUPPLIED WITH THE PRIOR SUBMITTAL REJECTION AND SHALL BE AMENDED WITH A DESCRIPTION OF THE SPECIFIC ACTION TAKEN TO COMPLY WITH THE REVIEWER'S COMMENTS. THE ABSENCE OF THIS ON RESUBMITTAL IS CAUSE FOR REJECTION.

NAME ELECTRONIC FILES TO MATCH THE SUBMITTAL ID AND COVER SHEET: THE ELECTRONIC FILE NAME OF SUBMITTALS SHALL MATCH THE SUBMITTAL ID INCLUDED ON THE SUBMITTALS COVER PAGE. FOR EXAMPLE:THE ORIGINAL/FIRST PRODUCT DATA SUBMITTAL FOR SECTION 234116 WOULD BE LABELED AS "234116.00-PD-00"; THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-PD-01". THE ORIGINAL/FIRST SHOP DRAWINGS SUBMITTAL FILE FOR THE SAME SECTION WOULD BE LABELED "234116.00-SD-00"; THE FIRST RESUBMITTAL OF SAME SHALL BE LABELED "234116.00-SD-01".

USE OF ELECTRONIC DRAWINGS FROM THE OWNER'S DESIGN TEAM

PLAN DRAWINGS FOR THE PROJECT WERE CREATED WITH AUTOCAD.

IF EXPRESSLY PERMITTED BY THE OWNER AND THE TERMS OF THE CONTRACT, EDITABLE ELECTRONIC VERSIONS OF STANDARD-SCALE, AUTOCAD-BASED PLAN DRAWINGS MAY BE MADE AVAILABLE FOR THE CREATION OF SHOP AND AS-BUILT DRAWINGS.

DUE TO THE PROPRIETARY NATURE OF INTERNAL DESIGN SYSTEMS, EDITABLE NATIVE-SOFTWARE VERSIONS OF SOME DRAWINGS, INCLUDING BUT NOT LIMITED TO SYSTEM DIAGRAMS AND DETAILS WILL NOT BE MADE AVAILABLE IN AN EDITABLE FORM. IN THESE CASES, ELECTRONIC VERSIONS OF THE DRAWINGS MAY BE MADE AVAILABLE ONLY IN PDF, JPG OR SIMILAR NON-EDITABLE ELECTRONIC FORM, AT THE SOLE DISCRETION OF THE DESIGN PROFESSIONAL.

THE REQUEST DRAWINGS FORM CAN BE ACCESSED, FILLED OUT AND SUBMITTED AT THE FOLLOWING INTERNET ADDRESS (SCROLL DOWN TO BOTTOM OF HOME PAGE): HTTP://WWW.KLHENGRS.COM.

23 05 29.00 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

GENERAL

SUPPORT ALL PIPING, DUCTWORK AND EQUIPMENT BY HANGERS OR BRACKETS. FURNISH STRUCTURAL STEEL MEMBERS WHERE REQUIRED TO SUPPORT PIPING AND EQUIPMENT. NO PORTION OF PIPING OR VALVES SHALL BE SUPPORTED BY EQUIPMENT.

DUCTWORK - SUPPORT BY MEANS OF HANGERS AS FOLLOWS:

DUCT WIDTH HANGER SIZE AND TYPE MAX. SPACING

30 OR LESS (#16 GAGE) 8

A PAIR OF HANGERS SHALL BE LOCATED AT EVERY TRANSVERSE JOINT AND ELSEWHERE ACCORDING TO THE TABLE.

23 05 93.00 - TESTING, ADJUSTING AND BALANCING FOR HVAC

GENERAL

TEST, ADJUST, AND BALANCE THE FOLLOWING MECHANICAL SYSTEMS:

SUPPLY AIR SYSTEMS

RETURN AIR SYSTEMS.

EXHAUST AIR SYSTEMS.

VERIFY TEMPERATURE CONTROL SYSTEM OPERATION.

TEST SYSTEMS FOR PROPER SOUND AND VIBRATION LEVELS.

QUALITY ASSURANCE

CODES AND STANDARDS:

AABC: "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE".

ASHRAE: ASHRAE HANDBOOK, 2011 APPLICATIONS, CHAPTER 38, TESTING, ADJUSTING, AND BALANCING.

SUBMITTALS

CERTIFIED REPORTS: SUBMIT TESTING, ADJUSTING, AND BALANCING REPORTS BEARING THE SEAL AND SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED; ARE A TRUE REPRESENTATION OF HOW THE SYSTEMS ARE OPERATING AT THE COMPLETION OF THE TESTING, ADJUSTING, AND BALANCING PROCEDURES; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED, TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS. FOLLOW THE PROCEDURES AND FORMAT SPECIFIED BELOW:

FINAL REPORT: UPON VERIFICATION AND APPROVAL PREPARE FINAL REPORTS, TYPE WRITTEN, AND ORGANIZED AND FORMATTED AS SPECIFIED BELOW. SUBMIT 2 COMPLETE SETS OF FINAL REPORT TO THE OWNER.

REPORT FORMAT: REPORT FORMS SHALL BE THOSE STANDARD FORMS PREPARED BY THE REFERENCED STANDARD FOR EACH RESPECTIVE ITEM AND SYSTEM TO BE TESTED, ADJUSTED, AND BALANCED.

QUALIFICATIONS

THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT BALANCE AND TESTING AGENCY, APPROVED BY THE ENGINEER, AND A MEMBER OF ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NEBB, WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS, TO BALANCE, ADJUST AND TEST ALL AIR AND WATER SYSTEMS AND EQUIPMENT AS HEREIN SPECIFIED. ALL WORK BY THIS AGENCY SHALL BE DONE UNDER DIRECT SUPERVISION OF A QUALIFIED HEATING AND VENTILATING ENGINEER EMPLOYED BY THIS AGENCY. ALL INSTRUMENTS USED BY THIS AGENCY SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.

SEQUENCING AND SCHEDULING

TEST, ADJUST, AND BALANCE THE AIR SYSTEMS BEFORE HYDRONIC, STEAM, AND REFRIGERANT SYSTEMS.

TEST, ADJUST AND BALANCE AIR CONDITIONING SYSTEMS DURING SUMMER SEASON AND HEATING SYSTEMS DURING WINTER SEASON, INCLUDING AT LEAST A PERIOD OF OPERATION AT OUTSIDE CONDITIONS WITHIN 5 DEG F WET BULB TEMPERATURE OF MAXIMUM SUMMER DESIGN CONDITION, AND WITHIN 10 DEG F DRY BULB TEMPERATURE OF MINIMUM WINTER DESIGN CONDITION. TAKE FINAL TEMPERATURE READINGS DURING SEASONAL OPERATION.

CHECK ALL FILTERS FOR CLEANLINESS, PROVIDE NEW AS REQUIRED. CHECK DAMPERS (VOLUME AND FIRE) FOR CORRECT AND LOCKED POSITION, AND TEMPERATURE CONTROL FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS. PLACE OUTLET DAMPERS IN FULL OPEN POSITION. LUBRICATE ALL MOTORS AND BEARINGS. CHECK FAN BELT TENSION. CHECK FAN ROTATION.

AIR BALANCE AND TESTING SHALL NOT BEGIN UNTIL THE SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER. THE CONTRACTOR SHALL PUT ALL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING. THE CONTRACTOR SHALL SUBMIT WITHIN 30 DAYS AFTER RECEIPT OF CONTRACT, 8 COPIES OF SUBMITTAL DATA FOR THE TESTING AND BALANCING OF THE AIR CONDITIONING, HEATING, AND VENTILATING SYSTEMS. THE AIR BALANCE AND TESTING AGENCY SHALL PROVIDE PROOF OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE.

THE AIR BALANCING CONTRACTOR SHALL INCLUDE THE ADDITIONAL COST TO CHANGE EVERY FAN FACTORY INSTALLED SHEAVE, PULLEY AND/OR BELT OF IN ORDER TO OBTAIN THE DESIGN AIR FLOWS.

PERFORMING TESTING, ADJUSTING AND BALANCING

PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM IDENTIFIED, IN ACCORDANCE WITH THE DETAILED PROCEDURES OUTLINED IN THE REFERENCED STANDARDS.

CUT INSULATION, DUCTWORK, AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES.

PATCH INSULATION, DUCTWORK, AND HOUSINGS, USING MATERIALS IDENTICAL TO THOSE REMOVED.

SEAL DUCTS AND PIPING, AND TEST FOR AND REPAIR LEAKS.

SEAL INSULATION TO RE-ESTABLISH INTEGRITY OF THE VAPOR BARRIER.

MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS; VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS. MARK WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIALS.

RETEST, ADJUST, AND BALANCE SYSTEMS SUBSEQUENT TO SIGNIFICANT SYSTEM MODIFICATIONS, AND RESUBMIT TEST RESULTS.

23 07 13.00 - DUCT INSULATION

PROVIDE INSULATION ON ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.

RIGID FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 612, TYPE IB, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM. INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.

FLEXIBLE FIBERGLASS DUCTWORK INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH VAPOR BARRIER ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM. INSULATION SHALL HAVE A MINIMUM R VALUE AS REQUIRED BY CODE.

VAPOR BARRIER MATERIAL FOR DUCTWORK: PAPER-BACKED ALUMINUM-FOIL, EXCEPT AS OTHERWISE INDICATED; STRENGTH AND PERMEABILITY RATING EQUIVALENT TO FACTORY-APPLIED VAPOR BARRIERS ON ADJOINING DUCTWORK INSULATION, WHERE AVAILABLE; WITH FOLLOWING ADDITIONAL CONSTRUCTION CHARACTERISTICS:

HIGH PUNCTURE RESISTANCE: LOW VAPOR TRANSMISSION (FOR DUCTS IN EXPOSED AREAS: MECH. ROOMS, ETC.)

MODERATE PUNCTURE RESISTANCE: MEDIUM VAPOR TRANSMISSION (FOR DUCTS IN CONCEALED AREAS).

23 09 93.00 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PACKAGED ROOFTOP UNIT

1. STARTUP

THE UNIT SHALL OPERATE ON A 7 DAY/NIGHT PROGRAMMABLE THERMOSTAT.

DURING STARTUP, THE FAN SHALL RUN WITH THE DAMPERS IN THE FULL RECIRCULATION POSITION.

PROVIDE OCCUPIED CHANGEOVER SEQUENCE WITH OPTIMUM START FUNCTION. WHEN THE RETURN AIR TEMPERATURE REACHES OCCUPIED SETPOINT (ADJUSTABLE), THE MINIMUM OUTSIDE AIR DAMPER SHALL OPEN TO THE CONTROLLED MINIMUM OUTDOOR AIR POSITION.

2. SUPPLY FAN CONTROL

THE SUPPLY FAN SPEED SHALL BE CONSTANT AND SET TO THE REQUIRED CFM.

3. SPACE TEMPERATURE CONTROL

PROVIDE LOCAL WALL MOUNTED ROOM TEMPERATURE THERMOSTAT WITH DIGITAL DISPLAY OF ROOM TEMPERATURE AND SETPOINT (+/- DEG. F. ADJUSTABLE), AND OVERRIDE FEATURE.

4. MINIMUM OUTSIDE AIR CONTROL

DURING OCCUPIED MODE THE MINIMUM OUTSIDE AIR DAMPER SHALL BE OPEN. PROVIDE MOTORIZED OUTDOOR AIR DAMPER.

5. ECONOMIZER CONTROL

PROVIDE DUAL ENTHALPY ECONOMIZER CONTROL. ECONOMIZER CONTROL SHALL BE ENABLED WHENEVER THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE RETURN AIR ENTHALPY. ENTHALPY SHALL BE CALCULATED FROM SENSORS WHICH ARE TIED TO THE SAME CONTROLLER FOR ACCURACY. DURING ECONOMIZER MODE, THE OUTSIDE AIR DAMPER SHALL MODULATE TO 100% OPEN. THE ECONOMIZER DAMPER SHALL MODULATE OPEN ON A CALL FOR COOLING AND MODULATE CLOSED ON A CALL FOR HEATING. THE RETURN DAMPER SHALL MODULATE INVERSELY WITH THE ECONOMIZER DAMPER. ECONOMIZER SHALL HAVE POWERED RELIEF.

6. COOLING CONTROL

COOLING SHALL BE CONTROLLED TO MAINTAIN SPACE TEMPERATURE SETPOINT. ON A CALL FOR COOLING THE HEATING SHALL BE OFF. ON A FURTHER CALL FOR COOLING, ENABLE THE ECONOMIZER MODE. ON A FURTHER CALL FOR COOLING, DISABLE THE ECONOMIZER MODE AND THE MECHANICAL COOLING SHALL BE STAGED ON.

7. HEATING CONTROL

HEATING SHALL BE CONTROLLED TO MAINTAIN SPACE TEMPERATURE SETPOINT. ON A CALL FOR HEATING, THE MECHANICAL COOLING SHALL BE OFF. ON A FURTHER CALL FOR HEATING, THE ECONOMIZER MODE SHALL BE DISABLED. ON A FURTHER CALL FOR HEATING THE GAS HEATING SHALL BE STAGED ON.

8. SMOKE DETECTOR

WHEN THE SMOKE DETECTOR IS ALARMED, THE SYSTEM SHALL BE ALARMED AND THE AIR HANDLER SHALL FAIL SAFE WITH MANUAL RESET. ELECTRICAL CONTRACTOR SHALL FURNISH, HVAC CONTRACTOR SHALL MOUNT & ELECTRICAL CONTRACTOR SHALL WIRE A UL LISTED PHOTOELECTRIC SMOKE DETECTOR PER LOCAL CODE AUTHORITY HAVING JURISDICTION.

9. UNOCCUPIED MODE

DURING THE UNOCCUPIED MODE OF OPERATION, THE RTU SHALL GO INTO NIGHT SETBACK MODE.

10. NIGHT SETBACK/SHUTDOWN

AT NIGHT SETBACK/SHUTDOWN THE RTU SHALL GO TO FAIL SAFE POSITION. FAIL SAFE POSITION IS DEFINED BY THE FOLLOWING: THE SUPPLY FAN IS OFF, THE OUTDOOR AIR INTAKE DAMPER IS CLOSED, THE HEATING IS OFF AND THE MECHANICAL COOLING IS OFF. THE SUPPLY FAN SHALL CYCLE IN CONJUNCTION WITH EITHER THE HEATING OR COOLING SYSTEM TO MAINTAIN A MINIMUM/MAXIMUM SPACE TEMPERATURE DEPENDING ON THE SEASON.

TOILET EXHAUST FANS (MANUAL)

EXHAUST FANS SHALL BE CONTROLLED BY PROGRAMMABLE TIMER FURNISHED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. WHEN ACTIVATED, EXHAUST FAN MOTOR DAMPER SHALL OPEN AND FAN SHALL START.

(INDICATED BY EC ON HECS SCHEDULE)

PIZZA OVEN EXHAUST FAN (TYPE I)

THE EXHAUST FAN SHALL BE CONTROLLED BY PROGRAMMABLE TIMER FURNISHED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. WHEN ACTIVATED, EXHAUST FAN MOTOR DAMPER SHALL OPEN AND FAN SHALL START.

CONTROLS

ELECTRICAL CONTRACTOR WILL PROVIDE POWER WIRING. HVAC CONTRACTOR SHALL PROVIDE ALL THE LOW VOLTAGE WIRING OF HVAC UNITS AND CONTROLS, THERMOSTATS AND CONTROLLERS.

THERMOSTAT SHALL BE BY THE MANUFACTURER OF THE HVAC UNIT (HEAT/COOL/AUTO/OFF) WITH NIGHT SETBACK. PROVIDE PLASTIC PROTECTIVE COVER FOR ALL THERMOSTATS.

LOW VOLTAGE THERMOSTATS

LOW VOLTAGE THERMOSTATS SHALL BE FURNISHED, INSTALLED AND WIRED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4" SQUARE X 1- 1/2" DEEP WALL OUTLET BOXES (WITH SINGLE-GANG RINGS) FOR ALL THERMOSTATS/SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 3/4" EMPTY CONDUIT FROM EACH THERMOSTAT/SENSOR LOCATION, TURNED OUT ABOVE ACCESSIBLE CEILINGS (IN JOIST SPACE OR AGAINST OVERHEAD SLAB/DECK). THE HVAC/TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL OTHER NECESSARY CONDUIT, RACEWAY AND WIRING RELATED WORK. CONDUIT SHALL BE IDENTIFIED IN CEILING CAVITY AND SHALL BE PROVIDED WITH SWEEP BENDS, BUSHINGS AND DRAGLINE.

THE HVAC/TEMPERATURE CONTROL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THERMAL ENVELOPE IS MAINTAINED AT THESE LOCATIONS.

GENERAL CONTROL WIRING REQUIREMENTS AND INSTALLATION METHODS

EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ABOVE, THE HVAC/TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WORK AS REQUIRED FOR ALL TEMPERATURE CONTROL RELATED WIRING (I.E. CONDUIT, RACEWAY, OUTLET BOXES, JUNCTION BOXES, WIRING, ETC.) IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS REQUIREMENTS. ALL CONDUIT SHALL BE 3/4" MINIMUM.

COORDINATE ALL THERMOSTAT/SENSOR LOCATIONS IN FIELD (CASE BY CASE) WITH ARCHITECT, OWNER AND ELECTRICAL CONTRACTOR TO ENSURE THAT THEY ARE PLACED IN LOCATIONS THAT WILL NOT INTERFERE WITH FURNITURE, EQUIPMENT, ARTWORK, WALL-HUNG SPECIALTIES, ROOM FINISHES, ETC. ALL THERMOSTAT/SENSOR WALL LOCATIONS INDICATED ON HVAC DRAWINGS ARE SCHEMATIC ONLY AND MUST BE VERIFIED CASE-BY-CASE PRIOR TO ROUGH-IN.

ALL ELECTRICAL WORK AS DESCRIBED IN THIS SPECIFICATION SHALL BE PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND PER APPLICABLE STATE AND LOCAL CODES.

WHERE "FREE-AIR" INSTALLATION METHODS (EITHER EXPOSED ABOVE THE CEILINGS, IN BRIDLE RINGS OR IN CABLE TRAYS) ARE PERMITTED UNDER ELECTRICAL SPECIFICATIONS ABOVE CEILINGS, PROVIDE PLENUM-RATED CABLES WHEREVER PLENUM CEILINGS (IF ANY) EXIST AND INSTALL AS DEFINED UNDER ELECTRICAL SPECIFICATIONS. INSTALL LOW VOLTAGE CIRCUITS, LOCATED IN CONCRETE SLABS AND MASONRY WALLS, IN INACCESSIBLE LOCATIONS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRICAL CONDUIT REGARDLESS OF WHAT WIRING METHODS ARE PERMITTED UNDER ELECTRICAL SPECIFICATIONS.

WHERE CABLE TRAYS OR BRIDLE RINGS ARE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR LOW VOLTAGE CABLES, THESE RACEWAYS MAY BE UTILIZED FOR CONTROL WIRING BY THIS CONTRACTOR (PROVIDE SPECIAL COLOR CODED JACKETS, LABEL CABLE JACKETS PER ELECTRICAL SPECIFICATIONS AND GROUP CONTROL WIRING CABLES TOGETHER). PROVIDE CONDUIT DROPS FROM CABLE TRAY/BRIDLE RING PATHS TO WALL OUTLET BOXES AND EQUIPMENT UNLESS DIRECTED OTHERWISE UNDER ELECTRICAL SPECIFICATIONS.

REGARDLESS OF PERMITTED METHODS IN ELECTRICAL SPECIFICATIONS, ALL CABLES/WIRING INSTALLED CONCEALED BY GYPSUM BOARD, MASONRY OR OTHER INACCESSIBLE MATERIALS IN WALLS OR ABOVE CEILINGS SHALL BE INSTALLED IN CONDUIT, 3/4" MINIMUM.

ALL CONDUIT, BRIDLE RINGS, RACEWAY, OUTLET BOXES, ETC. NECESSARY FOR COMPLETE OPERATIONAL INSTALLATION OF CONTROL WIRING SHALL BE PROVIDED (FURNISHED AND INSTALLED) BY THE TEMPERATURE CONTROL CONTRACTOR IN STRICT COMPLIANCE WITH ELECTRICAL SPECIFICATIONS DOCUMENTS. COORDINATE ALL WORK WITH ALL OTHER APPLICABLE TRADES INCLUDING THE ELECTRICAL CONTRACTOR.

PROVIDE ALL REQUIRED CONDUIT WORK TO AND BETWEEN EQUIPMENT IN A MANNER COMPLIANT WITH THAT DESCRIBED ABOVE (I.E. BETWEEN VAV BOXES, TO BOILERS, STARTERS, CONDENSING UNITS, ETC. AS APPLICABLE).

INSTALL CONTROL WIRING WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR-CODED. INSTALL IN NEAT WORKMANLIKE MANNER, SECURELY FASTENED. INSTALL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND PER ELECTRICAL SPECIFICATIONS.

INSTALL CIRCUITS OVER 25 VOLT WITH COLOR-CODED NO. 12 WIRE IN ELECTRICAL METALLIC TUBING, PER ELECTRICAL SPECIFICATIONS. INSTALL CIRCUITS UNDER 25 VOLT WITH COLOR-CODED NO. 18 WIRE WITH 0.031" HIGH TEMPERATURE (105 DEGS. F [41 DEGS C]) PLASTIC INSULATION ON EACH CONDUCTOR AND PLASTIC SHEATH OVER ALL. INSTALL ELECTRONIC CIRCUITS WITH COLOR-CODED NO. 22 WIRE WITH 0.023" POLYETHYLENE INSULATION ON EACH CONDUCTOR WITH PLASTIC-JACKETED COPPER SHIELD OVER ALL.

SMOKE DETECTOR

ALL DUCT SMOKE DETECTORS WILL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY THE HVAC CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR PER LOCAL CODES. HVAC CONTRACTOR WILL INTERLOCK RTU FAN WITH SMOKE DETECTOR.

23 31 13.00 - METAL DUCTS

DUCTWORK MATERIALS

EXPOSED DUCTWORK MATERIALS: WHERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS WHICH ARE FREE FROM VISUAL IMPERFECTIONS INCLUDING PITTING, SEAM MARKS, ROLLER MARKS, STAINS AND DISCOLORATIONS, AND OTHER IMPERFECTIONS, INCLUDING THOSE WHICH WOULD IMPAIR PAINTING. EXPOSED DUCTWORK WHICH IS TO BE PAINTED SHALL HAVE PAINT GRIP APPLIED.

SHEET METAL: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL, LOCK FORMING QUALITY; WITH G 90 ZINC COATING AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. MINIMUM GAUGE SHALL BE 24.

MISCELLANEOUS DUCTWORK MATERIALS

VOLUME DAMPERS: PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS OR AS REQUIRED FOR BALANCING TO REQUIRED AIR FLOWS.

FITTINGS: PROVIDE RADIUS TYPE FITTINGS FABRICATED OF MULTIPLE SECTIONS WITH MAXIMUM 15 DEG. CHANGE OF DIRECTION PER SECTION. UNLESS SPECIFICALLY DETAILED OTHERWISE, USE 45 DEG. LATERALS AND 45 DEG. ELBOWS FOR BRANCH TAKEOFF CONNECTIONS. WHERE 90 DEG. BRANCHES ARE INDICATED, PROVIDE CONICAL TYPE TEES.

DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, TYPE APPLICABLE FOR FABRICATION/INSTALLATION DETAIL, AS COMPOUNDED AND RECOMMENDED BY MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCT CEMENT: NON-HARDENING MIGRATING MASTIC OR LIQUID NEOPRENE BASED CEMENT, TYPE APPLICABLE FOR FABRICATION/INSTALLATION DETAIL, AS COMPOUNDED AND RECOMMENDED BY MANUFACTURER SPECIFICALLY FOR CEMENTING FITTING COMPONENTS, OR LONGITUDINAL SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK.

FLEXIBLE DUCTS

EITHER SPIRAL-WOUND SPRING STEEL WITH FLAMEPROOF VINYL SHEATHING, OR CORRUGATED ALUMINUM. UNLESS SPECIFICALLY MENTIONED, THE MAXIMUM LENGTH OF FLEX DUCT ON THE SUPPLY EQUALS 5 FEET. FLEX IS NOT ALLOWED FOR RETURN, RELIEF OR EXHAUST APPLICATIONS. THE FLEXIBLE DUCTS INDICATED FOR USE IN THE H.V.A.C. SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FOR CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCTS AND SHALL BE SO IDENTIFIED.

WHERE INSTALLED IN UNCONDITIONED SPACES OTHER THAN RETURN AIR PLENUMS, PROVIDE 1" THICK 1-1/2 LB. CONTINUOUS FLEXIBLE FIBERGLASS SHEATH WITH VINYL VAPOR BARRIER JACKET.

INSTALLATION IS NOT PERMITTED ABOVE DRYWALL CEILINGS AND INACCESSIBLE CEILINGS.

FABRICATION

SHOP FABRICATE DUCTWORK IN 4, 8, 10 OR 12-FT LENGTHS, UNLESS OTHERWISE INDICATED OR REQUIRED TO COMPLETE RUNS. ALL DUCTWORK SHALL BE PITTSBURGH CONSTRUCTION WITH A MINIMUM OF THICKNESS OF 24 GAUGE. IN ADDITION, DUCTWORK USED IN SYSTEMS OVER 3" W.G. SHALL HAVE COLD SEALANT APPLIED. SHOP FABRICATE DUCTWORK OF GAUGES AND REINFORCEMENT COMPLYING WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".

LINED DUCT

FABRICATE DUCTWORK WITH DUCT LINER IN EACH SECTION OF DUCT WHERE INDICATED. LAMINATE LINER TO INTERNAL SURFACES OF DUCT IN ACCORDANCE WITH INSTRUCTIONS BY MANUFACTURERS OF LINING AND ADHESIVE, AND FASTEN WITH MECHANICAL FASTENERS. DUCT LINER TO BE 3-LB DENSITY FOR ACOUSTIC REQUIREMENTS 1" THICK OR AS NOTED. SIZE OF DUCTWORK SHOWN ON THE DRAWINGS IS FREE NET AREA, OUTSIDE DIMENSION OF DUCTS WILL NEED TO BE INCREASED IF LINED DUCT IS USED.

SIZE OF DUCTWORK SHOWN ON THE DRAWINGS IS FREE NET AREA, OUTSIDE DIMENSION OF DUCTS WILL NEED TO BE INCREASED IF LINED DUCT IS USED.

DUCT LINER: FIBROUS GLASS OF THICKNESS INDICATED. 3-LB DENSITY. ALL LINERS, INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.

DUCT LINER ADHESIVE

DUCT LINER FASTENERS: COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

INSTALLATION OF METAL DUCTWORK

GENERAL: ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE AIR-TIGHT (5% LEAKAGE FOR SYSTEMS RATED 3" AND UNDER; 1% FOR SYSTEMS RATED OVER 3") AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. INSTALL EACH RUN WITH MINIMUM NUMBER OF JOINTS. ALIGN DUCTWORK ACCURATELY AT CONNECTIONS, WITHIN 1/8" MISALIGNMENT TOLERANCE AND WITH INTERNAL SURFACES SMOOTH. SUPPORT DUCTS RIGIDLY WITH SUITABLE TIES, BRACES, HANGERS AND ANCHORS OF TYPE WHICH WILL HOLD DUCTS TRUE-TO-SHAPE AND TO PREVENT BUCKLING. SUPPORT VERTICAL DUCTS AT EVERY FLOOR.

SEALING: SEAL ALL LONGITUDINAL SEAMS, S'S AND DRIVES AND ALL JOINTS WITH MASTIC OR CEMENT. INSTALL ACCORDING TO SMACNA STANDARDS.

BALANCING DAMPERS: THE SHEET METAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR INSTALLING BALANCING DAMPERS IN THE DUCTWORK, (WHETHER SHOWN ON THE DRAWING OR NOT) IN ORDER TO ARRIVE AT THE INTENDED AIR FLOW. THE BALANCING SUB-CONTRACTOR SHALL PROVIDE DIRECTION AND ASSISTANCE IN DETERMINING LOCATIONS WHERE DAMPERS ARE REQUIRED. ADDITIONAL DAMPERS, IF REQUIRED SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

WALL PENETRATIONS: SEAL AND PACK AROUND ALL DUCTS AND PIPING SLEEVES WHICH PASS THROUGH WALLS THAT EXTEND TO BOTTOM SIDE OF STRUCTURE AND RATED WALLS.

FIELD FABRICATION: COMPLETE FABRICATION OF WORK AT PROJECT AS NECESSARY TO MATCH SHOP-FABRICATED WORK AND ACCOMMODATE INSTALLATION REQUIREMENTS.

ROUTING: LOCATE DUCTWORK RUNS, EXCEPT AS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY AND AVOID DIAGONAL RUNS WHEREVER POSSIBLE. RUN DUCTWORK IN SHORTEST ROUTE WHICH DOES NOT OBSTRUCT USEABLE SPACE OR BLOCK ACCESS FOR SERVICING BUILDING AND ITS EQUIPMENT. HOLD DUCTS CLOSE TO WALLS, OVERHEAD CONSTRUCTION, COLUMNS, AND OTHER STRUCTURAL AND PERMANENT ENCLOSURE ELEMENTS OF BUILDING. LIMIT CLEARANCE TO 1/2" WHERE FURRING IS SHOWN FOR ENCLOSURE OR CONCEALMENT OF DUCTS, BUT ALLOW FOR INSULATION THICKNESS, IF ANY. WHERE POSSIBLE, LOCATE INSULATED DUCTWORK FOR 1" CLEARANCE OUTSIDE OF INSULATION. WHEREVER POSSIBLE IN FINISHED AND OCCUPIED SPACES, CONCEAL DUCTWORK FROM VIEW, BY LOCATING IN MECHANICAL SHAFTS, HOLLOW WALL CONSTRUCTION OR ABOVE SUSPENDED CEILINGS. DO NOT ENCASE HORIZONTAL RUNS IN SOLID PARTITIONS, EXCEPT AS SPECIFICALLY SHOWN.

COORDINATE LAYOUT WITH SUSPENDED CEILING AND LIGHTING LAYOUTS AND SIMILAR FINISHED WORK.

ELECTRICAL EQUIPMENT SPACES: DO NOT ROUTE DUCTWORK THROUGH TRANSFORMER VAULTS AND THEIR ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES.

PENETRATIONS: WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS AND EXTERIOR WALLS, AND ARE EXPOSED TO VIEW, CONCEAL SPACE BETWEEN CONSTRUCTION OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME GAGE AS DUCT. OVERLAP OPENING ON 4 SIDES BY AT LEAST 1-1/2". FASTEN TO DUCT AND SUBSTRATE.

WHERE DUCTS PASS THROUGH FIRE-RATED FLOORS, WALLS, OR PARTITIONS, PROVIDE FIRE DAMPERS AND FIRESTOPPING BETWEEN DUCT AND SUBSTRATE, IN ACCORDANCE WITH REQUIREMENTS OF DIVISION-7 SECTION "FIRESTOPPING".

COORDINATION: COORDINATE DUCT INSTALLATIONS WITH INSTALLATION OF ACCESSORIES, DAMPERS, COIL FRAMES, EQUIPMENT, CONTROLS AND OTHER ASSOCIATED WORK OF DUCTWORK SYSTEM.

INSTALLATION OF DUCT LINER

GENERAL: INSTALL DUCT LINER IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. SIZE OF DUCTWORK SHOWN ON THE DRAWINGS IS FREE NET AREA, OUTSIDE DIMENSION OF DUCTS WILL NEED TO BE INCREASED IF LINED DUCT IS USED.

STORE INTERNALLY LINED DUCTWORK UP OFF OF THE FLOOR. PROTECT INTERNALLY LINED DUCTWORK FROM WATER AND DUST. "BUTTER THE LEADING EDGE OF ALL INTERNAL DUCT LINING WITH THE MANUFACTURER'S RECOMMENDED ADHESIVE.

INSPECT AND REPAIR ALL DAMAGED LINING PRIOR TO INSTALLATION OF DUCTWORK.

INSTALLATION OF FLEXIBLE DUCTS

MAXIMUM LENGTH: FOR ANY DUCT RUN USING FLEXIBLE DUCTWORK, DO NOT EXCEED 5' - 0" EXTENDED LENGTH. INSTALLATION SHALL HAVE SMOOTH FULL RADIUS TURNS DOWN TO DIFFUSER.

INSTALLATION NOT PERMITTED ABOVE INACCESSIBLE CEILINGS.

23 37 13.00 - DIFFUSERS, REGISTERS AND LOUVERS

CEILING AIR DIFFUSERS

DIFFUSER FACES:

DIFFUSER MOUNTINGS:

LAY-IN: DIFFUSER HOUSING SIZED TO FIT BETWEEN CEILING EXPOSED SUSPENSION TEE BARS AND REST ON TOP SURFACE OF TEE BAR.

DIFFUSER DAMPERS:

OPPOSED BLADE DAMPERS: MULTIPLE OPPOSED BLADE DAMPERS CONNECTED TO LINKAGE ADJUSTABLE FROM FACE OF DIFFUSER WITH KEY.

INTEGRAL: COMBINATION VOLUME CONTROL AND PATTERN ADJUSTMENT FOR LINEAR DIFFUSERS.

DIFFUSER ACOUSTIC PERFORMANCE: NC LESS THAN OR EQUAL TO 30

DIFFUSER ACCESSORIES: PLASTER RING: PERIMETER RING DESIGNED TO ACT AS PLASTER STOP AND DIFFUSER ANCHOR.

TITUS TRM FRAME KIT

DIFFUSER FINISHES: WHITE ENAMEL: SEMI-GLOSS WHITE ENAMEL PRIME FINISH.

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DIFFUSERS OF ONE OF THE FOLLOWING:

ANEMOSTAT PRODUCTS DIV., DYNAMICS CORP. OF AMERICA.

METAL-AIRE

TITUS PRODUCTS DIV., PHILIPS INDUSTRIES, INC.

TUTTLE AND BAILEY.

PRICE

CEILING AND WALL REGISTERS & GRILLES

STEEL CONSTRUCTION: MANUFACTURER'S STANDARD STAMPED SHEET STEEL FRAME AND ADJUSTABLE BLADES.

REGISTER DAMPERS:

OPPOSED BLADE: ADJUSTABLE OPPOSED-BLADE DAMPER ASSEMBLY, KEY OPERATED FROM FACE OF REGISTER.

REGISTER AND GRILLE FINISHES: WHITE ENAMEL: SEMI-GLOSS WHITE ENAMEL PRIME FINISH.

REGISTER AND GRILLE ACOUSTIC PERFORMANCE: NC LESS THAN OR EQUAL TO 30

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DIFFUSERS OF ONE OF THE FOLLOWING:

ANEMOSTAT PRODUCTS DIV., DYNAMICS CORP. OF AMERICA.

METAL-AIRE

TITUS PRODUCTS DIV., PHILIPS INDUSTRIES, INC.

TUTTLE AND BAILEY.

PRICE

23 74 33.00 - PACKAGED OUTDOOR ROOFTOP UNITS

WARRANTY

WARRANTY ON COMPRESSOR AND HEAT EXCHANGER: PROVIDE WRITTEN WARRANTY, SIGNED BY MANUFACTURER, AGREEING TO REPLACE/REPAIR, WITHIN WARRANTY PERIOD, COMPRESSORS AND HEAT EXCHANGERS WITH INADEQUATE AND DEFECTIVE MATERIALS AND WORKMANSHIP, INCLUDING LEAKAGE, BREAKAGE, IMPROPER ASSEMBLY, OR FAILURE TO PERFORM AS REQUIRED; PROVIDED MANUFACTURER'S INSTRUCTIONS FOR HANDLING, INSTALLING, PROTECTING, AND MAINTAINING UNITS HAVE BEEN ADHERED TO DURING WARRANTY PERIOD. REPLACEMENT IS LIMITED TO COMPONENT REPLACEMENT ONLY, AND DOES NOT INCLUDE LABOR FOR REMOVAL AND REINSTALLATION.

WARRANTY PERIOD: 5 YEARS FROM DATE OF OWNER ACCEPTANCE.

ROOFTOP UNITS 25 TONS AND UNDER

GENERAL: ROOFTOP UNIT SHALL BE FACTORY-ASSEMBLED AND TESTED, DESIGNED FOR ROOF OR SLAB INSTALLATION AND, CONSISTING OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, CONDENSER AND EVAPORATOR FANS, REFRIGERATION AND TEMPERATURE CONTROLS, FILTERS, AND DAMPERS.

CAPACITIES AND ELECTRICAL CHARACTERISTICS ARE SCHEDULED.

CASING MANUFACTURER'S STANDARD CASING CONSTRUCTION, HAVING CORROSION PROTECTION COATING, AND EXTERIOR FINISH. CASINGS SHALL HAVE REMOVABLE PANELS OR ACCESS DOORS FOR INSPECTION AND ACCESS TO INTERNAL PARTS, A MINIMUM OF 1" THICK THERMAL INSULATION, KNOCKOUTS FOR ELECTRICAL AND PIPING CONNECTIONS, AND AN EXTERIOR CONDENSATE DRAIN CONNECTION, AND LIFTING LUGS.

ROOF CURBS: MANUFACTURER'S STANDARD CONSTRUCTION, INSULATED AND HAVING CORROSIVE PROTECTIVE COATING, COMPLETE WITH FACTORY-INSTALLED WOOD NAILER AND DRAIN NIPPLE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NRCA STANDARDS.

EVAPORATOR FANS: FORWARD-CURVED, CENTRIFUGAL, BELT-DRIVEN FANS WITH ADJUSTABLE SHEAVES; AND PERMANENTLY LUBRICATED MOTOR BEARINGS.

CONDENSER FANS: PROPELLER-TYPE, DIRECT-DRIVEN FANS WITH PERMANENTLY LUBRICATED BEARINGS.

COILS: ALUMINUM PLATE FIN AND SEAMLESS COPPER TUBE TYPE. FINS SHALL HAVE COLLARS DRAWN, BELLED AND FIRMLY BONDED TO THE TUBES BY MEANS OF MECHANICAL EXPANSION OF THE TUBES. NO SOLDERING OR TINNING SHALL BE USED IN THE BONDING PROCESS. COILS SHALL HAVE A GALVANIZED STEEL CASING. COILS SHALL BE MOUNTED IN THE COIL CASING WITH SAME END CONNECTIONS ACCESSIBLE FOR SERVICE. COILS SHALL BE REMOVABLE FROM THE UNIT THROUGH THE ROOF OR THROUGH THE PIPING ENCLOSURE. COIL SECTION SHALL BE OMPLETELY INSULATED.

REFRIGERANT COOLING COILS: HAVE AN EQUALIZING TYPE VERTICAL DISTRIBUTOR TO ENSURE EACH COIL CIRCUIT RECEIVES THE SAME AMOUNT OF REFRIGERANT. COILS SHALL BE PROOF (450 PSIG) AND LEAK (300 PSIG) TESTED WITH AIR PRESSURE UNDER WATER, THEN CLEANED, DEHYDRATED, AND SEALED WITH A HOLDING CHARGE OF NITROGEN.

COMPRESSORS: SERVICEABLE, SEMI-HERMETIC, OR HERMETIC COMPRESSORS WITH INTEGRAL VIBRATION ISOLATORS, AND CRANKCASE HEATERS, WHICH DE-ENERGIZE DURING COMPRESSOR OPERATION.

UNITS SHALL ALSO HAVE:

THERMAL EXPANSION VALVES, FILTER DRYERS, SIGHT GLASSES, COMPRESSOR ISOLATION SERVICE VALVES, LIQUID LINE SERVICE VALVES

MINIMUM OF 2 REFRIGERANT CIRCUITS FOR UNITS HAVING 2 OR MORE COMPRESSORS; SUCTION LINE ACCUMULATORS

SAFETY CONTROLS:

LOW PRESSURE CUTOUT, MANUAL RESET;

HIGH PRESSURE CUTOUT, MANUAL RESET;

COMPRESSOR MOTOR OVERLOAD PROTECTION, MANUAL RESET;

ANTI-RECYCLING TIMING DEVICE;

ADJUSTABLE LOW-AMBIENT LOCKOUT;

OIL PRESSURE SWITCH.

CONTROLS:

REDUNDANT GAS VALVES;

INTERMITTENT PILOT IGNITION;

ELECTRONIC SPARK IGNITION SYSTEM;

HIGH LIMIT CUTOUT;

FORCED DRAFT PROVING SWITCH;

FLAME ROLL-OUT SWITCH.

ECONOMIZER:

ENTHALPY CONTROLLED ECONOMIZER CONTROL:

PROVIDE RETURN AND OUTSIDE AIR DAMPERS, OUTSIDE AIR FILTER, FULLY MODULATING ELECTRIC CONTROL SYSTEM WITH DRY CONTROL, AND ADJUSTABLE MIXED-AIR THERMOSTAT. SYSTEM SHALL BE CAPABLE OF DRIVING 100% CLOSED FOR UNOCCUPIED MODE, MINIMUM OUTSIDE AIR POSITION AND MODULATION TO 100 PERCENT OPEN OUTSIDE AIR CAPABILITY. PROVIDE AUTOMATIC CHANGEOVER THROUGH ADJUSTABLE CONTROL DEVICE.

HEATING TYPES:

GAS FIRED HEAT EXCHANGERS: PROVIDE MANUFACTURER'S CONSTRUCTION OF ALUMINIZED STEEL GAS-FIRED HEAT EXCHANGERS AND BURNERS, DESIGNED FOR MINIMUM OF 2-STAGE OPERATION. PROVIDE SINGLE GAS CONNECTION.

TEMPERATURE CONTROL: FACTORY-INSTALLED, DEMAND-ORIENTED SOLID-STATE CONTROL SYSTEM ABOVE 5 TONS SHALL HAVE MINIMUM OF 2 COOLING STEPS AND 2 HEATING STEPS. CONTROLS SHALL INCLUDE SOLID-STATE THERMOSTATS WITH DEAD-BAND, AND SUB-BASE WITH SYSTEM AND FAN SWITCHES.

RELIEF:

BAROMETRIC RELIEF - SHALL INCLUDE RELIEF DAMPER SECTION WITH MIST ELIMINATOR. DAMPERS OPEN TO RELIEVE POSITIVE PRESSURE WITHIN THE BUILDING. AVAILABLE ONLY WITH ECONOMIZER.

FILTERS SECTION: 2" THICK FIBERGLASS THROWAWAY FILTERS IN FILTER RACK, WITH MAXIMUM FACE VELOCITY OF 300 FPM.

ACCESSORIES: UNITS SHALL INCLUDE THE FOLLOWING ACCESSORIES AS INDICATED OR SCHEDULED:

ANTI-RECYCLING CONTROL TO AUTOMATICALLY PREVENT COMPRESSOR RESTART FOR 5-MINUTES AFTER SHUTDOWN.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ROOFTOP UNITS OF ONE OF THE FOLLOWING:

AAON

BDP CO., DIV OF CARRIER CORP.

CARRIER AIR CONDITIONING, DIV OF CARRIER CORP.

LENNOX INDUSTRIES INC.

TRANE (THE) CO., DIV OF AMERICAN STANDARD INC.

EXAMINATION

EXAMINE AREAS AND CONDITIONS UNDER WHICH ROOFTOP UNITS ARE TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER.

INSTALLATION

GENERAL: INSTALL ROOFTOP UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

THE ROOFTOP UNIT(S) SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM ANY ROOF EDGE REGARDLESS OF LOCATION INDICATED ON PLANS, UNLESS A SCREEN WALL OR RAILING IS INSTALLED PER THE LOCAL BUILDING CODE. SEE THE ARCHITECTURAL PLANS FOR COORDINATION.

SUPPORT: INSTALL AND SECURE ROOF CURB TO ROOF STRUCTURE, IN ACCORDANCE WITH NATIONAL ROOFING CONTRACTOR'S ASSOCIATION (NRCA) INSTALLATION RECOMMENDATIONS AND SHOP DRAWINGS. INSTALL AND SECURE ROOFTOP UNITS ON CURBS AND COORDINATE ROOF PENETRATIONS AND FLASHING.

CONDENSATE PIPING: PROVIDE TYPE L COPPER CONDENSATE PIPING WITH TRAP.

ELECTRICAL CONNECTIONS: REFER TO SECTION 16142 - ELECTRICAL CONNECTIONS FOR EQUIPMENT FOR FINAL CONNECTIONS TO EQUIPMENT AND INSTALLATION OF LOOSE SHIPPED ELECTRICAL COMPONENTS.

DEMONSTRATION

START-UP SERVICES:

PROVIDE THE SERVICES OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO START-UP ROOFTOP UNITS, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN START-UP INSTRUCTIONS. TEST CONTROLS AND DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. REPLACE DAMAGED OR MALFUNCTIONING CONTROLS AND EQUIPMENT.

TRAINING OF OWNER'S PERSONNEL

PROVIDE SERVICES OF MANUFACTURER'S SERVICE REPRESENTATIVE TO INSTRUCT OWNER'S PERSONNEL IN OPERATION AND MAINTENANCE OF ROOFTOP UNITS. TRAINING SHALL INCLUDE START-UP AND SHUT-DOWN, SERVICING AND PREVENTATIVE MAINTENANCE SCHEDULE AND PROCEDURES, AND TROUBLESHOOTING PROCEDURES PLUS PROCEDURES FOR OBTAINING REPAIR PARTS AND TECHNICAL ASSISTANCE. REVIEW OPERATING AND MAINTENANCE DATA CONTAINED IN THE OPERATING AND MAINTENANCE MANUALS SPECIFIED IN DIVISION ONE.

SCHEDULE TRAINING WITH OWNER, PROVIDE AT LEAST 7-DAY PRIOR NOTICE TO THE ARCHITECT/ENGINEER.

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
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PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2016006828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:58:46-05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-911

MECHANICAL SPECIFICATIONS

CHECKED: DAK DRAWN: QN

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

PLUMBING SPECIFICATIONS

GENERAL

THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND INSTRUCTIONS TO BIDDERS SHALL APPLY TO AND BE PART OF THIS SPECIFICATION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES OF INSPECTION AND APPROVALS REQUIRED.

SCOPE OF WORK

WATER PIPING SYSTEMS
NATURAL GAS PIPING SYSTEMS
SOIL, WASTE, AND VENT PIPING SYSTEMS
PLUMBING FIXTURES
PLUMBING EQUIPMENT
PIPE JOINTS AND CONNECTION
PLUMBING INSULATION
INTERRUPTION OF SERVICES
WARRANTY

GENERAL STANDARDS

THE APPLICABLE PROVISIONS OF THE FOLLOWING STANDARDS SHALL GOVERN:

AMERICAN SOCIETY FOR TEST MATERIALS (ASTM);
AMERICAN STANDARDS ASSOCIATION (ASA);
UNDERWRITERS LABORATORIES (UL);
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA);
2012 INTERNATIONAL BUILDING CODE;
2012 UNIFORM PLUMBING CODE.

THE INSTALLATION OF ALL PLUMBING WORK SHALL CONFORM TO THE APPLICABLE LOCAL PLUMBING CODES AND STATUTES.

EXCAVATION AND BACKFILL

DO ALL EXCAVATION AND BACKFILLING, LAY SEWER AND UNDERGROUND PIPING LINES ON 6" COMPACTED SAND, BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.

WATER PIPING SYSTEMS

INTERIOR BACKFLOW PREVENTERS WITH FUNNELS AND DRAINS
DOMESTIC COLD-WATER PIPING
DOMESTIC HOT-WATER PIPING

TRAP PRIMERS FOR FLOOR DRAINS (PROVIDE SHUT-OFF VALVE BEFORE EACH TRAP PRIMER)

INSTALL WATER PRESSURE REGULATORS WHERE NECESSARY TO LIMIT THE INCOMING WATER PRESSURE TO 80 PSI INSIDE THE BUILDING.

INTERIOR WATER PIPING:
TUBE SIZE 2" AND SMALLER: COPPER TUBE.
WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER.
FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS.
TUBE SIZE 2-1/2" AND LARGER: COPPER TUBE.
WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER.
FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS.

REDUCED PRESSURE BACKFLOW PREVENTER (DOMESTIC BUILDING SERVICE):

BACKFLOW PREVENTER (2" AND SMALLER) - PROVIDE AND INSTALL A REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS SERIES 919QT, AND SHALL BE SIZED EQUAL TO THE SIZE OF THE WATER SERVICE. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

NATURAL GAS PIPING SYSTEMS

BUILDING DISTRIBUTION SYSTEM FROM GAS METER TO GAS-FIRED EQUIPMENT CONNECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.

GAS SERVICE PIPING:

ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.

BUILDING DISTRIBUTION PIPING:

ALL PIPING FROM OUTSIDE NEW FOUNDATION WALL TO GAS FIRED EQUIPMENT CONNECTIONS: BLACK STEEL PIPE.

PIPE SIZE 2" AND SMALLER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: MALLEABLE IRON THREADED

PIPE SIZE 2-1/2" AND LARGER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: WROUGHT-STEEL BUTTWELDING

GENERAL: PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT, INCLUDING EQUIPMENT SUPPLIED BY THE HVAC AND ELECTRIC CONTRACTORS; PIPING SHALL BE INSTALLED FULL-SIZE (AS INDICATED ON THE DRAWINGS) TO EACH UNITS GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM SHALL INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ROOF PENETRATION AND SHALL INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE HVAC CONTRACTOR.

SOIL, WASTE AND VENT PIPING SYSTEM

FURNISH AND INSTALL A COMPLETE SOIL, WASTE AND VENT SYSTEM IN THE BUILDING AND ON THE SITE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

ABOVE GROUND SOIL, WASTE AND VENT PIPING WITHIN BUILDINGS INCLUDING SOIL STACKS, VENT STACKS, HORIZONTAL BRANCHES, TRAPS, AND CONNECTIONS TO FIXTURES AND DRAINS.

UNDERGROUND BUILDING DRAIN PIPING INCLUDING MAINS, BRANCHES, TRAPS, CONNECTIONS TO FIXTURES AND DRAINS, AND CONNECTIONS TO STACKS, TERMINATING AT CONNECTION TO EXISTING SANITARY SEWER.

INTERIOR PIPING:

CAST IRON SOIL PIPING AND FITTINGS SERVICE WEIGHT ASTM A-74 WITH ASTM C-564 GASKETED JOINTS.

SCHEDULE 40 PVC PIPE AND FITTINGS SHALL BE USED UNDER SLAB. CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE RATINGS. PIPING SHALL NOT BE RUN IN PLENUM SPACES AND CONTRACTOR SHALL PROVIDE AND INSTALL INTUMESCENT COLLARS WHEN PENETRATING A RATED WALL, FLOOR, OR OTHER ASSEMBLY.

WASTE AND VENT PIPING 2-1/2" AND UNDER - TYPE "M" COPPER ASTM B88.62.

SOIL, WASTE AND VENT PIPING 3" AND OVER IN SIZE AND ALL UNDERGROUND CAST IRON SOIL PIPING AND FITTINGS, ASTM A-74, SERVICE WEIGHT.

NO-HUB CAST IRON PIPE AND FITTINGS MAY BE USED ABOVE FLOOR FOR SOIL, WASTE, AND VENT PIPING.

PIPING ALIGNMENT SHALL BE AS INDICATED ON THE DRAWINGS USING APPROVED Y BRANCHES OR EIGHT BANDS FOR DIRECTION CHANGES AND SHALL BE SURELY SUPPORTED OR SECURED TO MAINTAIN SUCH ALIGNMENT.

PITCH OF PIPING SHALL BE UNIFORM AT A MINIMUM OF 1/4" PER FOOT FOR BUILDING DRAINS AND AS INDICATED ON THE DRAWINGS FOR SEWERS.

PROTECTION SHALL BE GIVEN ALL FOOTINGS, OTHER STRUCTURAL ELEMENTS DURING UNDERGROUND WORK ADJACENT TO SUCH ITEMS. REFER TO STRUCTURAL DRAWINGS.

VENT ALL FIXTURES, CONNECT BRANCH VENTS TO MAIN VENT RISERS AT LEAST THREE FEET AND SIX INCHES ABOVE VENTED FIXTURES. PITCH VENT LINES BACK TO SOIL OR WASTE PIPE, FREE OF DROPS AND SAGS.

CLEANOUTS SHALL BE FULL SIZE OF PIPE UP TO 4", AND 4" FOR LARGER SIZES. FOR UNDERGROUND AND CONCEALED LINES, PROVIDE CLEANOUTS IN ACCESSIBLE POSITIONS AT EACH RIGHT ANGLE TURN AND AT INTERVALS NOT TO EXCEED FIFTY FEET. IN FLOORS, INSTALL FLUSH WITH FINISH FLOOR WITH EXTENSION PIPE FROM CLEANOUT "Y".

CLEANOUTS

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC CLEANOUT MANUFACTURERS AND MODELS.

FLOOR DRAINS

JOSAM, SMITH, WADE, ZURN, WATTS, MIFAB, SIOUX CHIEF, OR OATEY

FLOOR DRAIN TO BE ZURN Z415 WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, CAULKED OUTLET, 6" NICKLE BRONZE STRAINER AND PRIMER CONNECTION.

NOTE: ALL FLOOR DRAINS LOCATED IN ROOMS WHICH HAVE TILE FLOORS SHALL HAVE SQUARE STRAINERS.

THE PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR FLOOR DRAINS, AS INDICATED ON THE DRAWINGS (TP1). TRAP PRIMER SHALL BE EQUAL TO MIFAB MR-500 TRAP PRIMER VALVE.

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC FLOOR DRAIN MANUFACTURERS AND MODELS.

PLUMBING FIXTURES

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS

PLUMBING EQUIPMENT

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

WATER HEATER - REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

CATHODIC PROTECTION

PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.

SHOCK ABSORBERS

REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH VALVE FIXTURES.

VALVES

PROVIDE STOPS ON DOMESTIC WATER SUPPLIES TO ISOLATE HOT AND COLD WATER TO EACH FIXTURE, INCLUDING ALL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHERS.

FIXTURES, ITEM OR UNITS FURNISHED BY THE MANUFACTURER WITH INTEGRAL STOPS OR STOPS SPECIFIED WITH THE FIXTURE ARE CONSIDERED TO BE PROPERLY VALVED OFF AT THE FIXTURES.

ACCESS SHALL BE PROVIDED TO ALL VALVES.

VALVES ON DOMESTIC WATER PIPING SHALL BE BALL VALVES OR BUTTERFLY VALVES DEPENDING ON SIZE.

ALL VALVES INSTALLED ON DOMESTIC WATER PIPING 3" AND SMALLER SHALL BE BALL VALVES.

BALL VALVES - 1 INCH AND SMALLER: 2-PIECE BODY, 600 PSI CWP, 150 PSI SWP, CAST BRONZE BODY, FULL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BRONZE BALL, WITH SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER ENDS. PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 585-70-NS.

BALL VALVES - 1-1/4 INCH TO 3 INCH: 3-PIECE BODY, 600 PSI CWP, 150 PSI SWP, CAST BRONZE BODY, CONVENTIONAL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BRONZE BALL, SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER ENDS. PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 590-Y.
BUTTERFLY

CHECK VALVES

SWING CHECK VALVES - CLASS 125, CAST BRONZE BODY AND CAP, HORIZONTAL SWING, Y-PATTERN, WITH A BRONZE DISC, AND HAVING THREADED OR SOLDER ENDS. PROVIDE SOLDER ENDS FOR DOMESTIC HOT AND COLD WATER SERVICE. PROVIDE EQUAL TO NIBCO S-413.

PIPE JOINTS AND CONNECTION

ALL CUTTING AND PATCHING OF FINISHED CONSTRUCTION OF BUILDING SHALL BE PERFORMED BY THIS CONTRACTOR UNDER THE SECTION OF SPECIFICATIONS COVERING THESE MATERIALS.

ANY MINOR ADJUSTMENT IN LOCATION OF ALIGNMENT OF NEW WORK OR TO CONNECT TO EXISTING UTILITIES SHALL BE PERFORMED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROAD, BUILDING, PIPING SYSTEMS, ELECTRICAL SYSTEMS, AND THEIR EQUIPMENT AND CONTENTS, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED BY HIM. HE SHALL REPAIR AT HIS EXPENSE ALL DAMAGED SO CAUSED. ALL REPAIR WORK SHALL BE DONE AS DIRECTED BY AND IN SUCH MANNER AS SATISFACTORY TO THE ARCHITECT.

OWNER RESERVES THE RIGHT TO MAKE EMERGENCY REPAIRS AS REQUIRED TO KEEP EQUIPMENT IN OPERATION WITHOUT VOIDING THE CONTRACTOR'S GUARANTEE BOND NOR RELIEVING THE CONTRACTOR OF HIS RESPONSIBILITIES DURING THE BONDING PERIOD.

PLUMBING INSULATION

INSULATE DOMESTIC COLD WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1/2" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER RETURN PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE ABOVE FLOOR HORIZONTAL STORM DRAIN PIPING, ROOF DRAIN PANS, AND VERTICAL PIPING FROM ROOF DRAIN PAN TO THE FIRST HORIZONTAL BEND WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING ABOVE CEILINGS THAT RECEIVE CONDENSATE WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING, SUPPLY PIPING, STOPS, AND VALVES UNDER HANDICAP ACCESSIBLE PLUMBING FIXTURES.

FLEXIBLE ELASTOMERIC INSULATION

CLOSED-CELL, SPONGE- OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS.

MANUFACTURERS:
ARMSTRONG ARMAFLEX II
RUBATEX R-180-FS
NOMACO K-FLEX

INSULATION SHALL BE LISTED AND LABELED PER ASTM E 84 FOR PLENUM INSTALLATIONS EMPLOYING SLIP ON TECHNIQUES.

JOINTS SHALL BE SEALED WITH ARMSTRONG #520 OR RUBATEX #373 ADHESIVE OR AS REQUIRED BY MANUFACTURER. PIPE INSULATION EXPOSED OUTSIDE SHALL BE COVERED WITH A VINYL WRAP.

FIBERGLASS INSULATION

FIBERGLASS PIPING INSULATION: ASTM C 547, CLASS 1

ENCASE PIPE FITTINGS INSULATION WITH ONE-PIECE PREMOLDED PVC FITTING COVERS.

VAPOR BARRIER MATERIAL: PAPER-BACKED ALUMINUM FOIL, EXCEPT AS OTHERWISE INDICATED, STRENGTH AND PERMEABILITY RATING EQUIVALENT TO ADJOINING PIPE INSULATION JACKETING.

STAPLES, BANDS, WIRES, AND CEMENT: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

ADHESIVES, SEALERS, AND PROTECTIVE FINISHES: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

MANUFACTURERS:
ARMSTRONG WORLD INDUSTRIES, INC.
OWENS-CORNING FIBERGLASS CORP.
KEENE CORP.
CERTAINTEED.
JOHNS MANVILLE.

INSULATION FOR HANDICAP ACCESSIBLE FIXTURES

ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF202WH OR EQUAL. ABRASION RESISTANT , ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS, THE INSULATION SHALL HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION SHALL HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS SHALL REMAIN SUBSTANTIALLY OUT OF SIGHT.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS:
PROFLO
TRUEBRO
PLUMBEREX

WATER-HAMMER ARRESTERS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
AMTROL, INC.
JOSAM COMPANY.
MIFAB, INC.
PRECISION PLUMBING PRODUCTS, INC.
SIOUX CHIEF MANUFACTURING COMPANY, INC.
SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
TYLER PIPE; WADE DIV.
WATTS DRAINAGE PRODUCTS.
ZURN INDUSTRIES, LLC; PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE PRODUCTS.

STANDARD: ASSE 1010 OR PDI-WH 201.
TYPE: METAL BELLOWS OR COPPER TUBE WITH PISTON.
SIZE: ASSE 1010, SIZES AA AND A THROUGH F, OR PDI-WH 201, SIZES A THROUGH F.

INSTALL WATER-HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201.

INTERRUPTION OF SERVICES

WHEN IT IS REQUIRED TO INTERRUPT EXISTING SERVICES, THIS CONTRACTOR SHALL FIRST NOTIFY THE ARCHITECT THAT AN INTERRUPTION IS REQUIRED. IT SHOULD BE NOTED THAT FACILITIES MUST BY KEPT IN OPERATION AS MUCH AS POSSIBLE.

THIS CONTRACTOR SHALL ADVISE THE ARCHITECT OF THE LENGTH OF TIME THE SERVICE WILL BE INTERRUPTED AND SHALL GET PERMISSION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

WARRANTY

THIS CONTRACTOR SHALL WARRANT THAT ALL WORK UNDER THIS SECTION SHALL BE FREE OF DEFECTIVE WORK, MATERIALS AND PARTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE WORK AND SHALL REPAIR, REVISE, AND REPLACE, AT NO COST TO THE OWNER, ANY SUCH DEFECTS OCCURRING WITHIN THE WARRANTY PERIOD.

OWNER
MOD

2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC

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PERMITTING

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407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2010005828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:58:37-05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED		DATE
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PERMIT SET 09.20.21

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PLUMBING SPECIFICATIONS

CHECKED: DAK DRAWN: QN

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01/04/2022

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As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
02/02/2022

SPECIFICATIONS

260500 – COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK

1. COMPLY WITH THE GENERAL CONDITIONS OF THIS CONTRACT. THE REQUIREMENTS OF THIS SPECIFICATION ARE IN ADDITION TO THE REQUIREMENTS OF THE GENERAL CONDITIONS.

2. UNLESS OTHERWISE NOTED, PROVIDE DEMOLITION OF EXISTING POWER RECEPTACLES, LIGHT FIXTURES, RACEWAYS, WIRING, VOICE/DATA OUTLETS AND VOICE/DATA CABLING. DEMOLISH FIRE ALARM DEVICES AND WIRING WHERE IN CONFLICT WITH NEW WORK.

3. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMPLISH THE WORK SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

4. COORDINATE WORK WITH ALL OTHER TRADES.

5. VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.

6. REMOVE ALL WASTE AND RUBBISH FROM THE SITE ON A DAILY BASIS.

B. WARRANTY: WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. PROVIDE ADDITIONAL WARRANTY FOR VOICE/DATA SYSTEM AS NOTED ELSEWHERE.

C. REGULATIONS

1. ELECTRICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS PRESENTLY APPLICABLE:

a. NATIONAL ELECTRICAL CODE (NEC)

b. ENERGY CODE

c. LOCAL AND STATE CODES AND REGULATIONS

2. PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS.

D. SUBMITTAL AND SHOP DRAWINGS: PRIOR TO INSTALLATION, SUBMIT CATALOG DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW. SUBMIT SHOP DRAWINGS SHOWING COMPLETE TERMINAL–TO–TERMINAL WIRING FOR EACH SIGNAL AND COMMUNICATION SYSTEM. THREE COPIES REQUIRED.

E. OPERATIONS AND MAINTENANCE MANUALS: PROVIDE MAINTENANCE AND OPERATIONS DATA FOR ALL ELECTRICAL EQUIPMENT AND SIGNAL AND COMMUNICATIONS SYSTEMS. THREE COPIES ARE REQUIRED.

F. RECORD DRAWINGS: CORRECTIONS AND CHANGES MADE DURING THE PROGRESS OF THE WORK SHALL BE NEATLY RECORDED AS ACTUALLY INSTALLED FOR AS–BUILT RECORDS. SUBMIT TO THE ARCHITECT UPON PROJECT COMPLETION.

G. CERTIFICATES OF INSPECTION: SUBMIT SIGNED–OFF PERMITS FROM THE CODE ENFORCING AGENCIES TO THE OWNER UPON PROJECT COMPLETION.

H. PRODUCT LISTING OR LABELING: ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES, INC.

I. MATERIAL AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE OR CORROSION.

J. CUTTING AND PATCHING: PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE ELECTRICAL WORK.

K. EXISTING CONDITIONS

1. GENERAL: SPECIFIC SCOPE OF DEMOLITION WORK AND OPERATING CONDITIONS TO BE ENCOUNTERED SHALL BE VERIFIED BY ON–SITE REVIEW PRIOR TO SUBMITTING BID. DEMOLITION WORK IN GENERAL IS NOTED OR SHOWN ON THE DOCUMENTS BASED UPON AVAILABLE "DRAWINGS OF RECORD" AND MAY NOT SHOW THE ACTUAL CONDITIONS AS THEY PRESENTLY EXIST.

2. OWNER–RETAINED EQUIPMENT: THE OWNER MAY WISH TO RETAIN CERTAIN SPECIFIC ITEMS SCHEDULED FOR DEMOLITION. THE CONTRACTOR SHALL CAREFULLY REMOVE THESE ITEMS, PROVIDE PROTECTION AND PACKAGING AS MAY BE REQUIRED TO PROTECT THE EQUIPMENT AND TURN OVER SOLD EQUIPMENT TO THE OWNER AT A PLACE DESIGNATED ON THE JOBSITE. ANY EQUIPMENT THAT THE OWNER DOES NOT DESIRE TO RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

3. UNUSED CONDUIT AND WIRING: ALL UNUSED CONDUCTORS RESULTING FROM THIS PROJECT SHALL BE REMOVED. ALL UNUSED CONDUIT SHALL BE REMOVED EXCEPT WHERE LOCATED IN OR ABOVE EXISTING CONSTRUCTION WHICH IS NOT BEING ALTERED AND WOULD REQUIRE REMOVAL AND REPLACEMENT OF THE EXISTING CONSTRUCTION.

4. EXISTING TEL/DATA CABLES AND OUTLETS: PROVIDE DEMOLITION OF EXISTING VOICE DATA OUTLETS EXCEPT WHERE OTHERWISE SHOWN. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID. PROPERLY SUPPORT AND MAINTAIN IN SERVICE ANY REMAINING VOICE/DATA SYSTEM WIRING INSTALLED EXPOSED ABOVE SUSPENDED CEILINGS WITHIN THE PROJECT AREA. SECURE CABLES TO STRUCTURE ABOVE USING TIE WRAPS SECURED TO INDEPENDENT TIE WIRES SUSPENDED FROM STRUCTURE ABOVE.

5. EXISTING RACEWAYS: PROPERLY SUPPORT ALL EXISTING RACEWAYS ABOVE SUSPENDED CEILINGS WHERE WORK IS TAKING PLACE. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID.

L. CONTINUITY OF SERVICE: PERMANENTLY REROUTE OR RELOCATE EXISTING WIRING AND/OR EQUIPMENT WHICH IS IN CONFLICT WITH EXISTING BUILDING ALTERATIONS AND WHICH IS REQUIRED TO BE MAINTAINED IN USE.

M. REMOVAL AND REPLACEMENT OF EXISTING ACCESSIBLE CEILING PANELS, LIGHTING FIXTURES AND SPEAKERS: REMOVE AND REINSTALL ALL NECESSARY CEILING PANELS, LIGHTING FIXTURES, SPEAKERS AND OTHER EXISTING EQUIPMENT IN EXISTING ACCESSIBLE CEILINGS AS REQUIRED TO INSTALL THE ELECTRICAL WORK.

N. ANCHORAGE AND BRACING: PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR THE LATERAL AND VERTICAL SUPPORT OF CONDUIT AND ELECTRICAL EQUIPMENT AS REQUIRED BY THE INTERNATIONAL BUILDING CODE.

O. FIRESTOPPING: PROVIDE FIRESTOPPING FOR ALL PENETRATION IN RATED WALLS, CEILINGS AND FLOORS.

P. PAINTING: PAINT ALL EXPOSED RACEWAYS, EXCEPT SMR, IN FINISHED AREAS TO MATCH ADJACENT SURFACES.

Q. INSTRUCTION: CONTRACTOR SHALL INSTRUCT THE OWNER IN THE USE AND OPERATION OF ALL SYSTEMS INSTALLED UNDER THE SCOPE OF THIS CONTRACT.

R. OWNER FURNISHED EQUIPMENT: PROVIDE COMPLETE ELECTRICAL SERVICE AND CONNECTION TO ALL OWNER–FURNISHED EQUIPMENT.

260519 – CONDUCTORS AND CABLES

A. WIRE AND CABLE:

1. BRANCH CIRCUITS: TYPE THHN OR THWN, 600–VOLT INSULATION, STRANDED COPPER CONDUCTOR. MINIMUM CONDUCTOR SIZE:

a. NEUTRAL: #12 AWG

b. GROUND: #12 AWG

c. PHASE CONDUCTORS (MORE THAN SIX IN A RACEWAY): #10 AWG

d. PHASE CONDUCTORS (SIX OR LESS IN A RACEWAY): #12 AWG

2. FEEDERS: FEEDERS SHALL BE SIZED AS SHOWN ON THE DRAWINGS AND COLOR–CODED IN ACCORDANCE WITH LIST BELOW. MAKE NO SPLICES UNLESS SHOWN ON THE PLANS.

3. COLOR CODE WIRE IN ACCORDANCE WITH THE CODING SHOWN BELOW. POWER SYSTEMS CONDUCTORS ARE IDENTIFIED AS FOLLOWS:

	208Y/120V	480Y/277V
PHASE A:	BLACK	BROWN
PHASE B:	RED	ORANGE
PHASE C:	BLUE	YELLOW
NEUTRAL:	WHITE	GRAY
GROUND:	GREEN	GREEN

TRAVELERS: YELLOW (FOR 3– AND 4–WAY SWITCHING)
CONTROLS: BLACK WITH WIRE NUMBERS ON EACH CONDUCTOR

4. SPLICES AND TERMINATIONS: LIGHTING AND RECEPTACLE BRANCH CIRCUIT CONDUCTORS UP TO NO. 10 AWG SHALL BE SPLICED WITH WING NUT TYPE CONNECTORS.

260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

A. GENERAL: PROVIDE THROUGH THE ENTIRE ELECTRICAL SYSTEM. A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL LIGHTING AND POWER RACEWAYS

B. BONDING: INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE SWITCHBOARD GROUND BUS OR PANEL GROUND BUS AT BOTH ENDS OF FEEDER RACEWAYS. INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE GROUND BUS OR PANEL ENCLOSURES AT BOTH ENDS OF THE RUNS.

C. NEUTRAL GROUNDING: THE NEUTRAL POINT OF ALL TRANSFORMERS SHALL BE SOLIDLY GROUNDED TO THE GROUNDING SYSTEM AND TRANSFORMER ENCLOSURE WITH CODE SIZE GROUND CONDUCTORS. THE NEUTRAL BUS IN EACH PANELBOARD SHALL BE ISOLATED FROM THE GROUND. THE NEUTRAL SHALL BE GROUNDED ONLY AT A SINGLE POINT AT THE MAIN SWITCHBOARD OR AT SEPARATELY DERIVED SYSTEM TRANSFORMERS.

D. RECEPTACLE GROUNDING: CONNECT THE GROUND TERMINAL OF ALL RECEPTACLES BY UTILIZING A SEPARATE GROUNDING CONDUCTOR BETWEEN THE RECEPTACLE GROUNDING SCREW AND THE GROUND CONDUCTOR PROVIDED IN THE BRANCH CIRCUIT. INTEGRAL MOUNTING STRAPS WITHIN THE RECEPTACLE CONNECTED TO THE DEVICE MOUNTING STRAPS ARE NOT APPROVED AS A GROUNDING METHOD.

E. FLEXIBLE CONDUIT GROUNDING: PROVIDE A SEPARATE GROUNDING CONDUCTOR IN ALL FLEXIBLE CONDUIT RUNS INCLUDING WATERTIGHT FLEXIBLE CONDUIT WITH INTEGRAL GROUNDING STRAPS. INSTALL GROUND CONDUCTOR INSIDE CONDUIT WITH UNGROUNDED CONDUCTORS.

F. GROUND CONNECTIONS: GROUND CONNECTIONS TO BUILDING STEEL, GROUND RODS AND CABLE TOPS SHALL UTILIZE AN EXOTHERMIC WELDING PROCESS. CADWELD, ERICO PRODUCTS, INC., OR APPROVED EQUAL.

260533 – RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

A. RACEWAYS

1. ELECTRICAL METALLIC TUBING (EMT): STEEL–SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET–SCREWS ON EACH SIDE OF THE COUPLING.

2. FLEXIBLE METALLIC CONDUIT: GALVANIZED STEEL, SECURELY INTERLOCKED.

3. MC CABLE – CONCEALED IN WALLS ONLY.

B. FITTINGS

1. ELECTRICAL METALLIC TUBING (EMT): STEEL–SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET–SCREWS ON EACH SIDE OF THE COUPLING.

2. FLEXIBLE METALLIC CONDUIT: STEEL, ONE– OR TWO–SCREW CLAMP TYPE.

3. CONDUIT STRAPS: HEAVY DUTY, TWO–HOLE PRESSED STEEL.

4. OUTLET AND DEVICE BOXES:

a. INTERIOR SURFACE–MOUNTED IN UNFINISHED AREAS: ONE–PIECE PRESSED STEEL, ELECTRO–GALVANIZED, SIZE AND DEPTH REQUIRED BY CODE, EXCEPT 4–INCH SQUARE OR 4–INCH OCTAGONAL MINIMUM.

b. INTERIOR FLUSH–MOUNTED: SAME AS ABOVE EXCEPT PROVED PLASTER RING EXTENSION TO FINISHED SURFACE.

5. JUNCTION AND PULL BOXES FOR INTERIOR AREAS: STEEL, SCREW COVER, CODE GAUGE AND SIZE. LARGE JUNCTION AND PULL BOXES SHALL BE FABRICATED SHEET STEEL WITH BAKED ENAMEL FINISH AND RETURN FLANGE WITH SCREW RETAINED COVER.

C. EXECUTION

1. GENERAL:

a. COORDINATION: THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS, AND ELEVATIONS PRIOR TO ROUGH–IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS AND ELEVATIONS PRIOR TO ROUGH–IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL ASCERTAIN THE PROPER VOLTAGE, LOAD AND CONNECTION REQUIREMENTS PRIOR TO ROUGH–IN.

b. MATERIALS: ALL MATERIALS OF A SPECIFIC TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT.

2. RACEWAYS: INSTALL RACEWAY TYPES AND SIZES AS LISTED BELOW;

a. ELECTRICAL METALLIC TUBING (EMT): ALL INTERIOR AREAS. MAY BE USED FOR FEEDERS WITH INTEGRAL GREEN GROUND CONDUCTOR.

b. FLEXIBLE METALLIC CONDUIT: RECESSED FIXTURE CONNECTIONS, INTERIOR CONCEALED EQUIPMENT CONNECTIONS, EXPANSION JOINTS AND SOUND CONTROL. NOT TO BE USED FOR EXPOSED INSTALLATIONS WITHIN THE FINISHED AREAS OF THE BUILDING.

c. MINIMUM RACEWAY SIZE SHALL BE 3/4 INCH, EXCEPT FOR RACEWAYS WITH NO MORE THAN THREE #12 AWG CONDUCTORS WHICH MAY BE 1/2 INCH.

D. INSTALLATION:

1. CONCEALMENT: ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS. WHERE EXISTING WALL SURFACES ARE INACCESSIBLE, SURFACE METAL RACEWAYS FOR THESE EXCEPTIONS MAY BE PROVIDED WHEN APPROVED.

2. EXPOSED RACEWAYS. INSTALL EXPOSED RACEWAYS AS HIGH AS POSSIBLE, ABOVE DUCTWORK, PARALLEL OR AT RIGHT ANGLES TO BUILDING LINES.

3. EXPANSION AND EARTHQUAKE JOINTS. RACEWAYS SHALL NOT BE INSTALLED IN CONCRETE SLAB OR WALL CONSTRUCTION WHEN PASSING THROUGH ON EXPANSION OR EARTHQUAKE JOINT.

4. ROUTING: ALL RACEWAYS SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO THE BUILDING CONSTRUCTION UNLESS PROHIBITED BY A PHYSICAL OBSTRUCTION.
5. RACEWAY SUPPORTS: RACEWAYS SHALL BE SUPPORTED WITH HEAVY–DUTY, ONE–HOLE, PRESSED STEEL STRAPS ON INTERIOR SURFACES. SUPPORT PENDANT–MOUNTED RACEWAYS ON 3/8–IN ROD WITH PEAR–SHAPED HANGER OR TRAPEZE–TYPE HANGER WITH 3/8–INCH ROD (MINIMUM) AND 1–5/8–INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. PARALLEL, SURFACE–MOUNTED RACEWAYS SHALL BE SUPPORTED FROM 1–5/8–INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. ALL FITTINGS AND SUPPORTS HALL BE HOT–DIP GALVANIZED IN EXTERIOR AREAS.

6. INDEPENDENT SUPPORT: CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM, DUCTS, PIPES OR OTHER SYSTEMS FOREIGN TO THE ELECTRICAL INSTALLATION. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE KEPT INDEPENDENT FROM ANY OTHER TRADE.

7. PULLBOXES WITH COVERS: SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE. ALL PULLBOXES SHALL BE LOCATED SO AS TO BE ACCESSIBLE.

8. FLEXIBLE CONDUIT: SHALL BE USED ONLY FOR LIGHTING FIXTURE PIGTAILS IN ACCESSIBLE CEILINGS, FLUSH–MOUNTED SPEAKER PIGTAILS IN ACCESSIBLE CEILINGS, SOUND CONTROL, MOTOR CONNECTIONS AND AT BUILDING EXPANSION JOINTS AS SPECIFIED. ANY OTHER PROPOSED USE OF FLEXIBLE CONDUIT MUST BE APPROVED PRIOR TO INSTALLATION.

9. EMPTY RACEWAYS: PROVIDE A NYLON PULL STRING IN ALL EMPTY RACEWAYS.

10. BOXES AND FITTINGS:

a. GENERAL: BOXES SHALL BE SUPPORTED SECURELY AND INDEPENDENTLY. MOUNT BOXES ON BUILDING SURFACES OR SUPPORT WITH TRAPEZE HANGER AS DESCRIBED IN RACEWAY INSTALLATION. JUNCTION BOXES SHALL NOT BE USED UNLESS THE NUMBER OF BENDS, PULLING LENGTH, OR CIRCUIT REQUIREMENTS NECESSITATES THEIR INSTALLATION. JUNCTION OR PULLBOX OPENINGS MUST BE ACCESSIBLE.

b. SOUND CONTROL: WHERE BOXES ARE MOUNTED IN A COMMON WALL, THEY SHALL WHEREVER POSSIBLE, BE OFFSET HORIZONTALLY SO THAT THEY ARE NOT MOUNTED BACK–TO–BACK. CONNECT OFFSET BOXES WITH FLEXIBLE CONDUIT NOT TO EXCEED 18 INCHES IN LENGTH.

260553 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. GENERAL: LABEL ALL JUNCTION BOXES, TERMINAL CABINETS, ETC., WITH THE CIRCUIT NUMBER OR LOW–VOLTAGE SYSTEM CONTAINED WITHIN.

B. EQUIPMENT NAMEPLATES: SHALL BE ENGRAVED IN 1/16 INCH THICK PHENOLIC LETTERS A MINIMUM OF 3/16 INCH HIGH. COLORING SHALL BE WHITE LETTERS ON BLACK BACKGROUND.

260923 – LIGHTING CONTROL DEVICES

A. OCCUPANCY SENSOR: DUAL TECHNOLOGY TYPE, CEILING OR WALL SWITCH MOUNTED. USE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC DETECTION METHODS. MANUFACTURER: HUBBELL OR APPROVED EQUAL.

260926 – LIGHTING CONTROL PANELBOARDS

A. GENERAL:

1. THE WORK COVERED IN THIS SECTION IS SUBJECT TO ALL OF THE REQUIREMENTS IN THE GENERAL CONDITIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL OF THE WORK IN THE SECTION WITH ALL OF THE TRADES COVERED IN OTHER SECTIONS OF THE SPECIFICATION TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

2. SYSTEM DESCRIPTION: INSTALL A LIGHTING CONTROL SYSTEM CONSISTING OF RELAY/CONTACTOR PANEL(S), CONTROL SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND OTHER CONTROLLING DEVICES. THE DEVICES ARE CONNECTED BY LOW–VOLTAGE AND LINE–VOLTAGE WIRING. THE GENERAL OPERATION OF LIGHTING AND CONTROLLED LOADS SHALL INCLUDE:

a. INTERIOR LIGHTING, MANUAL SWITCH, PHOTOCELL AND OCCUPANCY SENSOR CONTROL ON/OFF WITH AUTOMATIC TIME SCHEDULED SHUT OFF.

b. SCHEDULED ON–OFF LOADS: TIME ON, TIME OFF BY AUTOMATIC TIME SCHEDULE WITH AFTER HOUR OVERRIDE CAPABILITY AND SHUTOFF.

B. PRODUCTS:

1. RELAY PANELS:

a. DESCRIPTION: LIGHTING CONTROL PANELS SHALL BE UL LISTED AND CONSIST OF THE FOLLOWING:

1) ENCLOSURE/TUB: NEMA 1.

2) COVER: FLUSH, HINGED, LOCKABLE AND SHALL RESTRICT ACCESS TO LINE VOLTAGE SECTION.

3) INTERIOR: BARRIER FOR SEPARATION OF HIGH–VOLTAGE (CLASS 1) AND LOW–VOLTAGE (CLASS 2) WIRING. IT SHALL INCLUDE INTELLIGENCE BOARDS, POWER SUPPLY AND CONTROL RELAYS. CLOCK DISPLAY AND KEYPAD SHALL BE MOUNTED ON INTERIOR CABINET DOOR FOR EASY USER ACCESS AND PROGRAMMING.

b. FEATURES;

1) PANEL SHALL ACCEPT UP TO SIXTEEN SINGLE POLE RELAYS. RELAYS SHALL BE INDIVIDUAL LATCHING RELAYS WITH 20 AMP LOAD CONTACTS FOR BALLAST (INCLUDING HID, MAGNETIC OR ELECTRONIC TYPE BALLASTS), TUNGSTEN AND GENERAL PURPOSE LOADS. PROVIDED ISOLATED AUXILIARY CONTACTS FOR PILOT LIGHT SWITCHING. RELAYS SHALL USE QUICK CONNECTORS AND BE INDIVIDUALLY REPLACEABLE TO FACILITATE EASE OF USE.

2) WHERE INDICATED, PANELS SHALL PROVED SPACE WITHIN THE HIGH VOLTAGE SECTION OF THE ENCLOSURE TO ACCOMMODATE UP TO 12 MULTI–POLE CONTACTORS. TWO SECTIONS OF DIN RAIL MOUNTING SHALL BE PROVIDED AS STANDARD. NO FIELD DRILLING OR FABRICATION SHALL BE REQUIRED FOR MOUNTING CONTACTORS OR OTHER ACCESSORIES WITHIN THE ENCLOSURE.

2. APPROVED MANUFACTURES:

a. RELAY PANEL: HUBBELL CX162S162NM OR APPROVED EQUAL.

b. PHOTOCELL: HUBBELL LUXSTAT–LS

c. OVERRIDE SWITCH: HUBBELL LVSM2PL–COLOR

d. OCCUPANCY SENSOR SWITCH: HUBBELL LHUSS1–COLOR

262726 – WIRING DEVICES

A. WIRING DEVICES

1. APPROVED MANUFACTURES: HUBBELL, P & S OR LEVITON. ALL PART NUMBERS REFER TO HUBBELL.

2. COLOR OF SWITCH HANDLES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE).

3. RECEPTACLE FACES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE) FOR NORMAL POWER.

B. RECEPTACLES

1. DUPLEX RECEPTACLES: SPECIFICATION–GRADE, 20 AMPERE, 125–VOLT, GROUNDED TYPE, HBL5362 SERIES.

2. DOUBLE DUPLEX RECEPTACLES: SPECIFICATION–GRADE, 20–AMPERE, 125–VOLT, GROUNDED TYPE, HBL5362 SERIES.

3. GROUND FAULT INTERRUPTION RECEPTACLE: SPECIFICATION–GRADE, 20–AMPERE, 120–VOLT, CLASS A, 5–MILLIAMPERE SENSITIVITY, GF5362 SERIES.

e. SWITCHES

1. SINGLE–POLE SWITCHES: SPECIFICATION–GRADE, 20AMPERE, 1221 SERIES.

2. THREE–WAY SWITCHES: SPECIFICATION–GRADE, 20–AMPERE, 1223 SERIES.

3. OCCUPANCY WALL SWITCHES: SPECIFICATION–GRADE, 20–AMPERE WITH INTEGRAL PRECISION INFRARED OCCUPANCY SENSOR.

4. LOW VOLTAGE WALL SWITCHES: HUBBELL LOW VOLTAGE SWITCH LVSM SERIES OR APPROVED EQUAL.

5. LINE VOLTAGE DIMMING SWITCHES: SPECIFICATION GRADE, 800W SLIDE DIMMING SWITCH. LEVITON RENOIR SERIES OR APPROVED EQUAL.

6. TIMER SWITCH: LEVITON VPT24–1P.

D. DEVICE PLATES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE), SMOOTH, HIGH–IMPACT THERMOPLASTIC, P&S/SIERRA OR APPROVED EQUAL.

E. EXECUTION

1. GENERAL: INSTALL DEVICES LEVEL, PLUMB AND SQUARE WITH BUILDING LINES.

2. SWITCH LOCATIONS: LOCATE SWITCHES 6 INCHES FROM DOOR CASING.

3. RECEPTACLE MOUNTING HEIGHT: + 18" TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.

4. SWITCHES: + 48" TO THE CENTERLINE OF THE BOX.

262416 – PANELBOARDS

A. 480Y/277V OR 208Y/120V, COPPER BUS BOLT–ON MOLDED CASE THERMAL MAGNETIC TYPE CIRCUIT BREAKERS HAVING A MINIMUM INTERRUPTING RATING OF 14,000 AMPERE FOR 480Y/277V PANELS AND 10,000 AMPERE FOR 208Y/120V PANELS.

B. MOUNTING: WHERE PANELBOARDS ARE TO BE INSTALLED AGAINST PLASTERBOARD WALLS, PROVIDE SEPARATE SUPPORT CHANNELS SECURED TO BLOCKING BETWEEN STEEL STUDS. COORDINATE BLOCKING WORK WITH THE GYPSUM WALLBOARD CONTRACTOR. PANELS SHALL NOT BE SECURED DIRECTLY TO GYPSUM WALLBOARD MATERIAL.

C. PROVIDE SHORT CIRCUIT STUDY OBTAINING AVAILABLE FAULT FROM SERVING UTILITY. PROVIDE DOCUMENTATION TO DEMONSTRATE THAT ALL SUBMITTED EQUIPMENT AND PROTECTIVE DEVICES MEET OR EXCEED AVAILABLE FAULT AT POINT OF APPLICATION. PROVIDE EQUIPMENT IN COMPLIANCE WITH AVAILABLE FAULT.

D. PERFORM AN ARC–FLASH STUDY IN ACCORDANCE WITH THE NEC AND AHJ TO DETERMINE INCIDENT ENERGY EXPOSURE, FLASH PROTECTION BOUNDARY, SHOCK HAZARD APPROACH LIMITS AND REQUIRED PPE LEVELS. PROVIDE REQUIRED DATA FOR APPROVED ARC–FLASH WARNING LABELS ON ALL PANELBOARDS AND DISCONNECT SWITCHES. PROVIDE WARNING LABELS ON ALL PANELBOARDS.

E. PROVIDE NAMEPLATE FOR EACH PANELBOARD PER 260553 ELECTRICAL IDENTIFICATION.

F. APPROVED MANUFACTURER'S: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

G. CURRENT–LIMITING PANELBOARD: LEVITON TRACK LIGHT LIMITING PANEL.

1. PROVIDE LEVITON G16F1–106 CURRENT LIMITING PANELBOARD. BREAKER SIZES INDICATED ON CURRENT–LIMITING PANELBOARD SCHEDULE, SHEET E–601.

262816 – ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. APPROVED MANUFACTURER'S: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

B. SINGLE–PHASE MOTOR: MOTORS 1/3 HP OR LESS PROVIDE WITH TOGGLE–TYPE, 20–AMP, 120–VOLT RATING, SPECIFICATION–GRADE DISCONNECT SWITCHES.
C. THREE–PHASE MOTOR: MOTORS ½ HP AND LARGER PROVIDE WITH AMP AND VOLTAGE RATING AS REQUIRED, SPECIFICATION–GRADE DISCONNECT SWITCHES. NEMA RATED PER ENVIRONMENT.

D. EQUIPMENT DISCONNECTS: SHALL BE FUSED OR NONFUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER, RATED AT 125 PERCENT OF FULL LOAD NAMEPLATE AMPERAGE OR RATED HORSEPOWER, HEAVY–DUTY TYPE.

E. DISCONNECTS: PROVIDE DISCONNECTS AT ALL MOTORS AND OTHER EQUIPMENT ITEMS UNLESS THE EQUIPMENT HAS A SELF–CONTAINED, CODE APPROVED DISCONNECTING METHOD. EQUIPMENT DISCONNECTS SHALL BE FUSED OR NON–FUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

262813 – FUSES

A. MANUFACTURERS: BUSSMAN, FERREZ SHAWMUT.

B. FUSES: PROVIDE 200,0–00 AIC, CURRENT LIMITING, UL TIME DELAY FUSES AS FOLLOWS:

1. FEEDERS 600 AMPS AND LESS: CLASS RK–1, LPN–RK FOR 250–VOLT, DUAL ELEMENT, CLASS RK–1, LPS–RK FOR 600 VOLT, DUAL ELEMENT.

2. MOTOR CIRCUIT 600 VOLTS AND BELOW: CLASS RK–1 OR CLASS J SIZED AT 125 PERCENT FLC OF MOTOR.

C. MOTOR CONTROLS

1. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.

2. MANUAL STARTERS: TOGGLE TYPE, LOCKABLE IN THE OFF POSITION, OVERLOAD PROTECTION, PILOT LIGHT AND NEMA 1 ENCLOSURE.

D. MOTOR CONTROLS AND EQUIPMENT CONNECTIONS:

1. GENERAL: PROVIDE ALL LINE VOLTAGE WIRING AND CONNECTIONS TO EQUIPMENT AND MOTORS AS SHOWN ON THE PLANS, DIAGRAMS OR SPECIFIED HEREIN. OBTAIN ALL NECESSARY ELECTRICAL AND PHYSICAL INFORMATION FROM THE TRADE PROVIDING THE EQUIPMENT, PRIOR TO ROUGH –IN AND ADJUST INSTALLATION REQUIREMENTS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.

2. MOTOR CONTROLS, SEPARATELY MOUNTED; PROVIDE SEPARATELY MOUNTED MOTOR STARTING EQUIPMENT AS SHOWN OR NOTED. COORDINATE LOCATION AND INTERLOCKING WITH TEMPERATURE CONTROLS CONTRACTOR. VERIFY MOTOR HORSEPOWER SIZE OR FULL–LOAD AMPERAGE PRIOR TO ORDERING OVERLOAD HEATERS AND SIZE UNITS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

265100 – INTERIOR LIGHTING

A. GENERAL: REFER TO THE FIXTURE SCHEDULE ON THE CONTRACT DRAWINGS.

B. LABELS: PROVIDE UL LABELS ON ALL NEW FIXTURES. LIGHTING FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL HAVE LABEL "SUITABLE FOR DAMP LOCATIONS" OR "SUITABLE FOR WET LOCATIONS."

C. LAMPS:

1. APPROVED MANUFACTURERS: OSRAM/SYLVANIA, GE, OR PHILIPS. SEE FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2. PROVIDE FOR EACH FIXTURE, NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR AS INDICATED ON THE DRAWINGS.

3. FLUORESCENT: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR INDICATED ON DRAWINGS. LAMP COLOR SHALL BE 3500K WITH A COLOR RENDERING INDEX (CRI) OF 80 OR BETTER. EACH 4' LAMP SHALL HAVE LESS THAN 10 MG OF MERCURY. ALL LAMPS OF A SPECIFIC TYPE ARE TO BE OF THE SAME MANUFACTURER. THERE SHALL BE NO PERCEPTIBLE COLOR DIFFERENCES BETWEEN LAMPS.

4. LED: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY THE FIXTURE OR INDICATED ON THE DRAWINGS.

D. BALLASTS:

1. APPROVED MANUFACTURERS: ADVANCE, MAGNETEK OR LUTRON.

2. ELECTRONIC FLOURESCENT BALLASTS: BALLASTS SHALL BE TYPE REQUIRED FOR THE NUMBER AND TYPE OF LAMPS IN EACH CASE. EACH FIXTURE SHALL HAVE ITS OWN BALLAST. REMOTE, TANDEM OR MASTER/SLAVE–WIRED BALLASTS SHALL NOT BE UTILIZED. ALL BALLASTS SHALL B E HPF – ETL AND UL APPROVED. ALL FLUORESCENT BALLASTS SHALL OPERATE AT 20 KHX OR GREATER AND CLASS P THERMALLY PROTECTED RESET TYPE TO MEET SECTION 410–73 (E) OF THE NATIONAL ELECTRICAL CODE AND BE CSA CERTIFIED. BALLAST FACTOR FOR ALL LAMP/BALLAST COMBINATIONS SHALL EXCEED .90 FOR ALL CASES. BALLAST SHALL COMPLY WITH FCC REQUIREMENTS UNDER PART 18, CLASS A. ALL BALLASTS SHALL BE GUARANTEED BY THE MANUFACTURER FOR A PERIOD OF TWO YEARS AFTER INSTALLATION. RAPID–START BALLASTS SHALL BE CERTIFIED TO HAVE AN "A" SOUND RATING . THE VOLTAGE RATING OF THE BALLAST SHALL BE AS REQUIRED BY THE SERVICE VOLTAGE.

271500 – COMMUNICATIONS HORIZONTAL CABLING

A. SCOPE: CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS FOR A COMPLETE, FUNCTIONAL DATA AND VOICE COMMUNICATIONS SYSTEM INFRASTRUCTURE IN ACCORDANCE WITH THIS SPECIFICATIONS AND THE CONTRACT DRAWINGS.

B. INSTALLATION SHALL INCLUDE CABLE (TWISTED–PAIR COPPER), INTERCONNECT PATCH EQUIPMENT, CONNECTORS, JUMPERS, WIRING BLOCKS AND TELECOMMUNICATIONS OUTLETS.

C. UPON COMPLETION OF INSTALLATION THE CONTRACTOR SHALL TEST ALL COPPER PATHWAYS AND RECORD THE TEST RESULTS.

D. PROVIDE THREE JACKS PER OUTLET LOCATIONS AS SHOWN ON PLANS. USE SINGLE GANG, FLUSH MOUNT FACEPLATES. PROVIDE ONE CATEGORY 5E CABLE PER JACK UNLESS OTHERWISE INDICATED. TERMINATE WITH CATEGORY 5E INSERT JACKS UNLESS OTHERWISE INDICATED. PROVIDE UNIPRISE #CC00205XX (XX=COLOR) MODULAR JACKS FACEPLATES SHALL BE WHITE, COMMSCOPE #108168543.

E. PROVIDE SUPERIOR ESSEX DATA GAIN #66–240–2B DATA STATION CABLE, 4–PAIR, 24AWG, UTP, UO/NEC CMP OR EQUIVALENT.

F. ALL CABLES ROUTED ON BACKBOARDS SHALL BE SUPPORTED USING NYLON ZIP TIE MOUNTS THAT ARE SECURLY MOUNTED TO THE BACK BOARD BY SCREWS IN ADDITION TO THE ADHESIVE BACK.

G. DATA/VOICE TERMINAL BACKBOARD SHALL BE ¾" THICK PLYWOOD, APA EXTERIOR GRADE DOUGLAS FIR A–C, AND FIRE RETARDANT WITH FLAME SPREAD RATING NOT MORE THAN 25 WHEN TESTED ACCORDING TO ASTM E–84.

H. PROVIDE SUPERIOR ESSEX CAT 3 4 PAIR STATION CABLE FOR ALL JACKS LABELED FOR TELEPHONE. PROVIDE # 18–241–43 WHITE, PLENUM RATED OR EQUIVALENT.

I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EMT SLEEVES AT ANY LOCATION WHERE A WALL, PARTITION, FLOOR OR CEILING IS PENETRATED. WHERE A FIRE–RATED WALL, FLOOR OR CEILING IS PENETRATED, SEAL AROUND ALL CABLES WITH UL CLASSIFIED FIRE SEAL SUFFICIENT TO RETURN THE STRUCTURE TO ITS ORIGINAL RATING.

J. PROVIDE PLASTIC BUSHING ON ALL CONDUITS AND SLEEVES PRIOR TO INSTALLING CABLE. CABLE INSTALLED IN CONDUITS OR SLEEVES WITHOUT BUSHINGS SHALL BE REMOVED AND REPLACED.

K. PROVIDE METALLIC RACEWAYS, ABOVE INACCESSIBLE CEILINGS, INSTALLED EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40 PERCENT. MINIMUM RACEWAY SIZE SHALL BE 3/4 INCH.

END OF ELECTRICAL SPECIFICATIONS

OWNER

MOD

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Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
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407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
STACY TREVOR HENSON
NUMBER PE-2016006828
PROFESSIONAL ENGINEER

Digitally signed by Stacy T Henson
Date: 2022.01.04 14:58:30-05'00'

MOD LEES SUMMIT
460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

SP-913
ELECTRICAL SPECIFICATIONS

CHECKED: EAF DRAWN: EAF

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VENDOR LIST

VENDOR NAME/ CATEGORY	PRODUCT DESCRIPTION	CONTACT NAME	TITLE	CONTACT EMAIL	PHONE
ACTIVE VENDORS					
AUDIO + LOW VOLTAGE					
PAR TECH	CASH BOX, POS SCREEN, KDS SCREEN, BUMP BAR, CONTROL UNIT, EMV READER	CHRISTINA GRUCHY	ORDER ADMIN SPECIALIST	CHRISTINA_GRUCHY@PARTECH.COM	(800) 448-6505 X6310
		COREY CONKLIN	PROJECT MANAGER - PAR PAY	COREY_CONKLIN@PARTECH.COM	(561) 448-7381
POSRG	PRINTERS, POWER SOURCE, LOYALTY SCANNER	CONNOR WILFORD	PROJECT MANAGER	CWILFORD@POSRG.COM	(224) 622-8495
		JEREMY VARNEY	DIRECTOR OF RETAIL SALES	JVARNEY@POSRG.COM	(847) 526-9650 EXT.394
RTGPOS	PRINTERS, POWER SOURCE, LOYALTY SCANNER	JUSTIN KEENE		JUSTIN.KEENE@RTGPOS.COM	(314) 926-4663
		DIANA KILLIAN	CUSTOMER RELATIONSHIP MANAGER	DIANA.KILLIAN@RTGPOS.COM	(636) 680-8270
				MODPIZZA@RTGPOS.COM	
BEER					
MICRO MATIC	BEER KEGERATOR	KRISTINE LASCALA		KML1@MICRO-MATIC.COM	(352) 593-2022
		LEAH HAAB		LKH@MICRO-MATIC.COM	
CAMERAS, SECURITY + LOCKSMITH					
DH PACE	SECURITY, RE-KEY	KATIE HANSEN	DEPARTMENT MANAGER	KATIE.HANSEN@DHPACE.COM	(816) 480-2609
			MOD ORDERS	MODPIZZA@DHPACE.COM	(888) 643-3667
			GC ORDERS	SECURITYSOLUTIONS@DHPACE.COM	(855) 237-3667
ENVYSION	SECURITY CAMERAS	HANNAH ROBERTS		HROBERTS@ENVYSION.COM	(720) 862-5481
		JOSHUA COX		JCOX@ENVYSION.COM	
IBEAM SYSTEMS	SECURITY CAMERAS DURING CONSTRUCTION	DEBBIE HARRIS		DEBBIE@IBEAMSYSTEMS.COM	(208) 473-2736
		CODY MECHAM		CODY@IBEAMSYSTEMS.COM	
PROTECTION 1 (ADT)	ALARM MONITORING	HANNAH COOK		HANNAHCOOK@ADT.COM	
		DENNIS SMITH	NATIONAL ACCOUNTS MANAGER	DENNISPSMITH@ADT.COM	(503) 367-0214
		HEIDI THOMPSON	SERVICE MANAGER	HEIDITHOMPSON@ADT.COM	(214) 277-7127
CASEWORK					
FCC	CASEWORK PACKAGE, OAK TABLE TOPS, FURNITURE	CHANDRA COUNTS	PROJECT COORDINATOR	CHANDRA.GRAVES@FCCFURN.COM	(541) 464-5211
				MOD@FCCFURN.COM	
		LAURA COBIAN		LAURA.COBIAN@FCCFURN.COM	(800) 322-7328 EXT. 271
		RUSS COOLEY	VP DEVELOPMENT/DESIGN	RUSS.COOLEY@FCCFURN.COM	(800) 322-7328
		BETH ANDERSON	INTERIOR DESIGNER	BETH.ANDERSON@FCCFURN.COM	(800) 322-7328 X238
		PRESTON O'HARA	GENERAL MANAGER	PRESTON.OHARA@FCCFURN.COM	(800) 322-7328 X284
LOAD KING	CASEWORK PACKAGE	MARLENA SOPIRA	DIRECTOR OF ACCOUNT DEVELOPMENT	MSOPIRA@LOADKING.COM	(904) 633-7409
		PHIL BLACK		PBLACK@LOADKING.COM	
PIN	CASEWORK PACKAGE	CATHY INTIA	ACCOUNT MANAGER	CINTIA@PIN.COM	(972) 621-1200
WISCONSIN BUILT	CASEWORK PACKAGE	DAVID NIEMAN	ACCOUNT MANAGER	DAVIDN@WISCONSIN-BUILT.COM	(608) 764-3396
		JONATHAN UECKER	PROJECT MANAGER	JONATHANU@WISCONSIN-BUILT.COM	(608) 764-8661 EXT. 4335
CONTRACTS + MISC					
AIRGAS	CO2	NANCY DIAZ		MANNIE.DIAZ@AIRGAS.COM	(877) 717-4540 EXT.11254
		KALI KOSTAR		KALI.KOSTAR@AIRGAS.COM	
COCA-COLA	COKE MACHINE	JODIE GARLINGTON	OPERATIONS MANAGER	JGARLINGTON@COCA-COLA.COM	
		HANNAH KELLY	ACCOUNT COORDINATOR	HANKELLY@COCA-COLA.COM	(800) 531-2238 EXT. 2643
DCGONE	BANNERS	KARRI KELLER		KARRI.KELLER@DCGONE.COM	(206) 409-2052
				MODPIZZA@DCGONE.COM	
ECOLAB	DISHWASHER	ANA RODRIGUEZ	INSTALLS/ORDERS	ANA.RODRIGUEZ@ECOLAB.COM	(800) 532-7732 EXT. 6933
KINETICO	WATER FILTRATION		CUSTOMER SUPPORT LINE (ORDERS & SERVICE)	COMMERCIAL@KINETICO.COM	(800) 321-5022
		JESSICA SLUSHER	SYSTEMS 2, 2B & 3 ORDERS	JSLUSHER@KINETICO.COM	(440) 321-6210
			SYSTEM 1 ORDERS FOR ED DON	CUSTOMER-SERVICE@SELECTOINC.COM	(800) 321-5022 #4
		DON GADSDEN	DESIGN & LAYOUT SUPPORT	DGADSDEN@KINETICO.COM	(416) 802-6250
		CASEY ROBINSON	FIELD TECH SUPPORT	CROBINSON@KINETICO.COM	(678) 708-6287
		JONATHON KELLER	FIELD SERVICE DISPATCH	JKELLER@KINETICO.COM	(440) 564-4422
		TOM BEST	DIRECTOR - BUSINESS DEVELOPMENT	TBEST@KINETICO.COM	(630) 306-7670
		SHAY ASHLOCK	DIRECTOR - CUSTOMER EXPERIENCE	SASHLOCK@KINETICO.COM	(678) 899-5219
PFG	PRE-HEALTH	CENA COUPENS		CENA.COUPENS@PFGC.COM	(971) 716-4741
SSDC	CLEANING AGENTS FOR DISHWASHER	STEVEN STRAW	PNW REGIONAL	STEVEN.STRAW@SSDCSOAP.COM	(385) 313-4339
DRIVE THRU SPECIFIC					
ENTOUCH SOLUTIONS	DRIVE THRU LOOP DETECTORS, HEADSETS	ERIC HERN	SALES	ERIC@ENTOUCHSOLUTIONS.COM	(503) 319-5272
EQUIPMENT					
CAPTIVEAIR	OVEN HOOD & DIRECT VENT	JON CLARKE	PROJECT MANAGER	JON.CLARKE@CAPTIVEAIRE.COM	(425) 212-5996 EXT. 2
LENNOX	RTUS	KURT KIZEWSKI	NATIONAL ACCOUNT MANAGER	KURT.KIZEWSKI@LENNOXIND.COM	(719) 440-0827
			EQUIPMENT CUSTOMER SERVICE	LENNOXNATIONALACCOUNTS@LENNOXIND.COM	
			EMERGENCY REPLACEMENTS	NAEMERGENCYREPLACEMENTREQUESTS@LENNOXIND.COM	
			PARTS CUSTOMER SERVICE	CUSTOMERSERVICE@LENNOXIND.COM	
			TECHNICAL SUPPORT	NATIONALACCOUNTSTECHNICALSUPPORT@LENNOXIND.COM	
			BLDG. AUTOMATION TECHNICAL SUPPORT	CCAC@LENNOXIND.COM	
			APPLICATIONS	COMMERCIALAPPLICATIONSSUPPORT@LENNOXIND.COM	
ROLL-A-SHADE	WINDOW SHADES	SHANNEN ALBINA	PROJECT MANAGER	SHANNEN.ALBINA@ROLLASHADE.COM	(951) 245-5077 EXT. 140
		RIC BERG	VP BUSINESS DEVELOPMENT-NATIONAL	RIC.BERG@ROLLASHADE.COM	(951) 245-5077 X113
SMITH & GREENE (ED DON)	FRONT AND BACK OF HOUSE EQUIPMENT, SMALLWARES, SHELVING, FURNITURE	TRINA IVERSON	ACCOUNT MANAGER	TRINAIVERSON@DON.COM	(253) 258-3964
		LUBIA RODRIGUEZ	PROJECT MANAGER	LUBIARODRIGUEZ@DON.COM	(253) 258-3673
WOODSTONE	PIZZA OVEN	TRAVIS WALKER	REGIONAL SALES MANAGER	TRAVISW@WOODSTONE.NET	(360) 920-1060
FINISHES					
2 STONE	PRECAST CONCRETE VENEER	LISE BROWN	MANAGING DIRECTOR - DESIGN	LISE@2STONE.CA	(403) 236-3657
3M	GLAZING FILM	TINA DOMINGUEZ	SPECIALIST; BRANDING; DESIGN	TMDOMINGUEZ@MMM.COM	(415) 246-1847
9WOOD	SUSPENDED WOOD PANEL CEILING	STEVE KOVARIK	SALES & ARCHITECTURAL MGR	SKOVARIK@9WOOD.COM	(888) 767-9990
			ORDERING	SALES@9WOOD.COM	
ANN SACKS TILE	DECORATIVE TILE	CHRISTINE NEELY	ASSOCIATE DESIGN SALES CONSULTANT	CHRISTINE.NEELY@ANNSACKS.COM	(206) 441-8917 EXT. 42235
ANTHOLOGY WOODS	WOOD CLADDING	ANDREA WITKOWSKI	SALES REPRESENTATIVE	ANDREA@ANTHOLOGYWOODS.COM	(541) 227-5238 EXT. 700
ARMSTRONG FLOORING	RUBBER BASE PRODUCTS	STERLING DUNLAP	INSIDE SALES REPRESENTATIVE	SDUNLAP@ARMSTRONGFLOORS.COM	(717) 672-7415
BFC METALS	ONLINE ORDER SHELVING, CORNER GUARDS, CHAIR RAIL, TOP CAPS, TEA DISPENSER TAGS, UTENSIL RACK	KIRK KOONTZ	OWNER	KIRK.KOONTZ@BFCMETALS.COM	(206) 763-0530
		JESSICA SMITH	PROJECT MANAGER	JESSICA@BFCMETALS.COM	(206) 763-0530
BRIDGER STEEL	CORRUGATED METAL	JACOB HOUSMAN	NATIONAL SALES TEAM LEAD	JACOB.HOUSMAN@BRIDGERSTEEL.COM	(406) 813-5632
CEMENT TILE SHOP	CEMENT TILES	JAMIE ADDISON	CUSTOMER SERVICE	CUSTOMERSERVICE@CEMENTTILESHOP.COM	(800) 704-2701
CONSOLIDECK/ PROSOCO	SEALED CONCRETE FLOORS	JOHN MURPHY	TECHNICAL SPECIALIST	JOHN.MURPHY@PROSOCO.COM	(253) 363-2183
CONSTRUCTION SPECIALTIES	FAUX BRICK PANELS	JEN DAVIS	WEST TERRITORY SALES MANAGER	JDAVIS@C-SGROUP.COM	(619) 481-9588
CREATIVE PALETTE	FAUX BRICK PANELS, SUSPENDED CEILING SYSTEMS	VINCE FAIELLA	ACCOUNT MANAGER	VFAIELLA@CREATIVEPALETTEINC.COM	(614) 623-6444
DAL TILE	SUBWAY TILE, FLOOR TILE, DECORATIVE TILE	CARL CHITWOOD	ARCHITECTURAL SALES NW REGION	CARL.CHITWOOD@DALTILE.COM	(206) 854-6930
			NATIONAL ACCOUNTS	NATIONAL.ACCOUNTS@DALTILE.COM	(877) 556-5728
DESIGN & DIRECT SOURCE	DECORATIVE TILE	SUZANNE SANNING	SENIOR VICE PRESIDENT	SSANNING@DESIGNANDDIRECTSOURCE.COM	(503) 388-2044
		NICOLE CARRUTH	ASSOCIATE PROJECT MANAGER - WEST	NICOLE@DESIGNANDDIRECTSOURCE.COM	
EMSER TILE	DECORATIVE TILE	GILLIAN BARDIN	COMMERCIAL TERRITORY MANAGER	GILLIANBARDIN@EMSER.COM	(206) 390-1964
			ORDERS	MODPIZZA@EMSER.COM	
		KYLE STOKLEY	NATIONAL ACCOUNT MANAGER	KYLESTOKLEY@EMSER.COM	
EUROWEST	DECORATIVE TILE	GIUSEPPE COLUCCI	ARCHITECTURAL REPRESENTATIVE	GC@EUROWEST.COM	(714) 310-7934
JAMES HARDIE	HARDIEBACKER CEMENT BOARD	DAVE HUGHES	COMMERCIAL	DAVE.HUGHES@JAMESHARDIE.COM	(253) 315-5317
		JOHANN GUTIERREZ	WESTERN WA SALES MGR	JOHANN.GUTIERREZ@JAMESHARDIE.COM	(425) 306-3910
MARLITE	FRP	TOM LENOX	DIRECTOR OF SALES	TLENOX@MARLITE.COM	(330) 260-7608
MCNICHOLS	WIRE MESH	ALEX VICENS	CUSTOMER SERVICE SPECIALIST	ALEX.VICENS@MCNICHOLS.COM	(800) 237-3859 EXT. 3859
MOUNTAIN LUMBER	WOOD CLADDING	RICHARD BROTHERTON	SALES REPRESENTATIVE	RICHARD@REDSQUIRRELINTERIORS.COM	(360) 819-6085
		JASON EASTMAN	COMMERCIAL CONSULTANT	JASON.EASTMAN@MOUNTAINLUMBER.COM	(434) 985-3646
MUTUAL MATERIALS	SLIM BRICK CLADDING	MATT JOHNSON	RESIDENTIAL SALES REP	MJOHNSON@MUTUALMATERIALS.COM	(425) 452-2303
			ORDERS		(866) 576-8882
NEMO TILE	DECORATIVE TILE	MILTANIA BROWN	A&D SALES SUPPORT SUPERVISOR	MBROWN@NEMOTILE.COM	(212) 477-1425 EXT. 256
		EMILY METRO	QUOTES / PRICING QUESTIONS	EMETRO@NEMOTILE.COM	(913) 485-3295
PANOLAM	RUBBER BASE	SHERIDAN BOTROS	SPECIFICATION MANAGER	SHERIDAN_BOTROS@PANOLAM.COM	(510) 730-9200
PIONEER MILLWORKS	WOOD CLADDING	SIERRA MURPHY	SALES REP	SIERRA@PIONEERMILLWORKS.COM	(585) 737-6137
		ASHLEY SAMUEL	INSIDE SALES PARTNER FOR SIERRA MURPHY	ASHLEY@PIONEERMILLWORKS.COM	(503) 349-6997
SHERWIN WILLIAMS	PAINT	LEANNE DUDLEY	NATIONAL ACCOUNT MANAGER	LEANNE.N.DUDLEY@SHERWIN.COM	(425) 417-1765
SUPERIOR RADIANT INSULATION	SCRIM	LINDA DITTEMORE	CUSTOMER SERVICE	LINDA@SUPERIORRB.COM	(909) 305-1450
SURFACE ART TILE	DECORATIVE TILE	CHAD BALLARD	DIRECTOR COMMERCIAL & ARCH DESIGN SALES	CHADB@SURFACEARTINC.COM	(206) 315-4558 (OFFICE) (206) 514-1590 (CELL)
SUSTAINABLE LUMBER	WOOD CLADDING	RYAN PALMA	SALES REPRESENTATIVE	RYAN@SUSTAINABLELUMBERCO.COM	(406) 642-7120
TERRAMAI	RECLAIMED TABLE TOPS, WOOD CLADDING	MATT NICHOLS	NATIONAL ACCOUNTS WEST	MNICHOLS@TERRAMAI.COM	(206) 450-6712
		JUSTINE BARNHART	INSIDE SALES	JUSTINE@TERRAMAI.COM	(541) 973-2302
UNITED TILE	DECORATIVE TILE	LOIS WALLACE	DIRECTOR OF COMMERCIAL BUSINESS DEVELOPMENT	LOIS@UNITEDTILE.COM	(206) 218-5373
UNITED TILE - CROSSVILLE	LAMINAM TILE	ASHLEY HOLMES	BRAND MANAGER - CROSSVILLE TILE	ASHLEYHOLMES@UNITEDTILE.COM	(425) 241-1986
USG	ACOUSTIC CEILING TILE	BEN BEARDEN	CORPORATE ACCOUNTS	BBEARDEN@USG.COM	
VIROC	CEMENT FIBER BOARD PANELS	STEVE PACKIN	SALES	SPACKIN@INTERNATIONALHARDBOARD.COM	(718) 386-6119
WILSONART	PLASTIC LAMINATE, COUNTERTOPS	BRYNN BISHOP	NATIONAL ACCOUNT MANAGER	BRYNN.BISHOP@WILSONART.COM	(720) 346-4538
WOLF GORDON	WALLCOVERING	GINNY COMBS	SALES REPRESENTATIVE	GINNY.COMBS@WOLFGORDON.COM	(800) 347-0550 EXT. 811
		BRITNI CIEJKA	SALES SUPPORT REP.	BRITNI.CIEJKA@WOLFGORDON.COM	(718) 391-5453
FURNITURE					
CROW WORKS	OAK & WALNUT TABLE TOPS, STRAP BASE, HEX TABLE, TRANSIT SEATING, ONE TON STOOLS, MACHINE BENCH, SHUFFLEBOARD TABLE, GAME TABLE	RACHEL STIENECKER	SENIOR ACCOUNT MANAGER	RACHEL@CROWWORKS.COM	(614) 796-6997
		AUDREY SEMINARA		AUDREY.SEMINARA@CROWWORKS.COM	(614) 301-2938
FOOD SERVICE SEATING (FSS)	PATIO SEATING, AMES CHAIR, TRENTON STOOLS	MEAGAN HSING	SALES SUPPORT	SALES@FOODSERVICESEATING.COM	(909) 755-9657
		GORDIE VERK	OWNER	GORDIE@FOODSERVICESEATING.COM	(416) 574-2124
FRANKFORD UMBRELLAS	PATIO UMBRELLAS	MARC KAUFER	PRESIDENT	MARC@FRANKFORDUMBRELLAS.COM	(856) 222-4134
		ANGELA		ANGELA@FRANKFORDUMBRELLAS.COM	
MILLENNIUM SEATING	VITRO CHAIR	JANET GREGOIRE		JANET@MILLENNIUMSEATING.COM	(866) 379-8422 EXT. 111
		JAMES SAVITSKE	TEAM LEAD	JSAVITSKE@MILLENIUMSEATING.COM	(770) 565-1965 X131
SOFT TOUCH SEATING	SPECIALTY BOOTHS	MEGAN VICKERS	PROJECT MANAGER	MVICKERS@SOFTTOUCHFURNITURE.COM	(330) 545-4204
GRAPHICS + ART					
ADCOLOR	INTERIOR GRAPHICS	LORI MESSNER		LORI.MESSNER@ADCOLORINC.COM	(859) 312-0217
CREO	BADGES + FIXTURES	JUSTIN GREEN		JGREEN@CREO-IA.COM	(425)374-5914
		DANA GRANGE		DGRANGE@CREO-IA.COM	
SANDY ALEXANDER	INTERIOR GRAPHICS	LESLIE TOLBERT		LTOLBERT@SANDYINC.COM	(818) 842-7150
		ANGELA VICKERS		AVICKERS@SANDYINC.COM	
LIGHTING					
CED (STUSSER)	FULL LIGHTING PACKAGE	JANELLE YOSHIMOTO (YOSHI)	CED NATIONAL ACCOUNT	JANELLE.YOSHIMOTO@CED.COM	(206) 694-6534
		ALEX KNIPP	CED NATIONAL ACCOUNT	ALEX.KNIPP@CED.COM	(206) 694-6494
		GREG APPLEGATE	CED NATIONAL ACCOUNT	GREG.APPLEGATE@CED.COM	(206) 623-1501
			ORDERS	MOD@CED.COM	
GRAYPANTS	GRAYPANTS PENDANT	JONATHAN JUNKER	CEO	JON.JUNKER@GRAYPANTS.COM	206-409-5316
NORTH COAST	FULL LIGHTING PACKAGE	CHRIS AUSTIN	ACCOUNT MANAGER	CHRIS.AUSTIN@NORTHCOAST.COM	(206) 305-0677
		JORDAN AKHLAGHI	NATIONAL ACCOUNTS	JORDAN.AKHLAGHI@NORTHCOAST.COM	
RESTROOMS + REGULATORY SIGNAGE					
RESTROOM REMODELS	RESTROOM FIXTURES, REGULATORY SIGNS	KEITH VANDERBILT	SALES	KEITH@RESTROOMREMODELS.COM	(617) 500-2554
		KRISLYNN MACIEL	CUSTOMER SUPPORT	KRIS@RESTROOMREMODELS.COM	(978) 525-0008
SIGNAGE + MENUS					
AGI	EXTERIOR SIGNAGE	ROBERT VOIGT	PROJECT MANAGER	RVOIGT@AGI.NET	(865) 560-6088
		RANDY KERR	VP OF SALES	RKERR@AGISIGN.COM	(865) 692-1242 X3248
		SARAH HOLMES	PROJECT MANAGER II	SHOLMES@AGI.NET	(800) 877-7868 X3204
		GRANT WHITFIELD	DIRECTOR OF PROJECT MANAGEMENT	GWHITFIELD@AGI.NET	(865) 560-6088
ATLAS	EXTERIOR SIGNAGE	LUKE FORD		LUKE.F@ATLASBTW.COM	(561) 863-6659 EXT. 2024
		KAYTLYN SANDMEYER	PROJECT MANAGER	KAYTLYN.S@ATLASBTW.COM	(561) 543-5940

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2000155776
ARCHITECT
Digitally signed by David Boyce
Date: 2022.01.05 17:43:44 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEES SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

V-001
VENDOR LIST

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VENDOR LIST CONT.

		CARRIE KERRICK	PROJECT MANAGER	CARRIE.K@ATLASBTW.COM	(561) 863-6659 X2005
		JANENE SINKS	PROJECT MANAGER	JANENE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		ANNETTE SOUTHERN	PROGRAM MANAGER	ANNETTE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		JILL ADINOLFE	PRESIDENT NORTH EAST DIVISION/CEO	JILL.A@ATLASSIGNINDUSTRIES.US	(561) 863-6659
LOREN	EXTERIOR SIGNAGE, DRIVE THRU MENU BOARDS AND SIGNAGE	DAN LORENZON	PRESIDENT	DAN.L@LORENSIGNS.COM	(562) 328-4800
		CARLA TOLEDO	DIRECTOR OF PROJECT MANAGEMENT	CARLA.T@LORENSIGNS.COM	(562) 946-7545 EXT. 133
VGS	INTERIOR MENU BOARDS	ANDY SCHILLIG	DIRECTOR OF NEW BUSINESS DEVELOPMENT	ASCHILLIG@VGS-INC.COM	(201) 528-9683
		ERICKA MARGARITONDO	ACCOUNT MANAGER	MARGARITONDO@VGS-INC.COM	(201) 528-9651
		ROSE ROMANO		RROMANO@VGS-INC.COM	(201) 528-9112
				MODPIZZA@VGS-INC.COM	
WALTON SIGNAGE	OPEN SIGN, ORDER HERE SIGN, ONLINE PICKUP SIGN, ARROW SIGN	LAURA MONROE	EXECUTIVE VP	LMONROE@WALTONSIGNAGE.COM	(210) 419-9250
		ERIN WADE	VP OF PROGRAM MANAGEMENT	EWADE@WALTONSIGNAGE.COM	(210) 823-2386
		MARISOL JAUREZ	DIRECTOR OF PROGRAM MANAGEMENT	MJUAREZ@WALTONSIGNAGE.COM	(210) 906-5986
		DARIAN BEACHY	VP OF SPECS	DBEACHY@WALTONSIGNAGE.COM	

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

OWNER

MOD

2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
PROJECT NO. 2021.0524

CONSULTANT

SEAL

STATE OF MISSOURI
DAVID G. BOYCE
NUMBER A-2001035
ARCHITECT

Digitally signed by David Boyce
Date: 2022.01.05 17:44:09 -05'00'

MOD LEES SUMMIT

460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
1 BUILDING COMMENTS	10.18.21
2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

V-002
VENDOR LIST

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Development Services Department
Lee's Summit, Missouri
02/02/2022

FOR QUESTIONS, CALL THE
Seattle Office
REGION 85
PHONE: (425) 212-5996
EMAIL: reg85@captiveaire.com

EXHAUST FAN INFORMATION – JOB#5191766

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF	1	CASRE13BD	CAPTIVEAIRE	600	0.200	867	ODP	0.500	0.1020	1	115	7.6	626 FPM	247	5.3

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF	1	RE13BD – HIGH TEMPERATURE HEAT & SMOKE OPTION.
		1	UTILITY SET GREASE CUP.
		1	EXTRA SET OF BELTS.
		1	FAN BASE CERAMIC SEAL – SHIP LOOSE – FOR GREASE DUCTS.
		1	RE11/13 – RAIN CAP ASSEMBLY – INCLUDES HARDWARE AND GASKET.
		1	2 YEAR PARTS WARRANTY.

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF	30 LBS	CURB	19.500"W X 19.500"L X 24.000"H ALONG LENGTH, RIGHT VENTED.

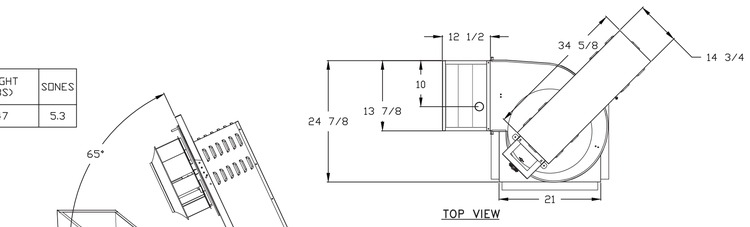
PROCUREMENT

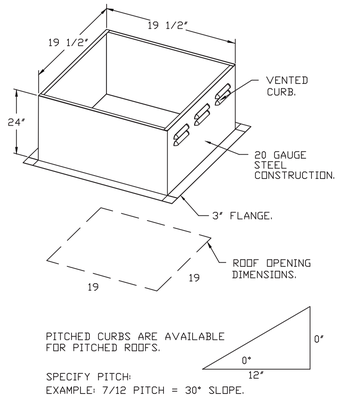
1) OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIRE SYTEMS REGION 85, 425-212-5996, REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED.
2) CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVE AIRE SYSTEMS FOR FABRICATION.
3) FABRICATION AND DELIVERY TAKE FOUR (4) WEEKS MINIMUM< INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY

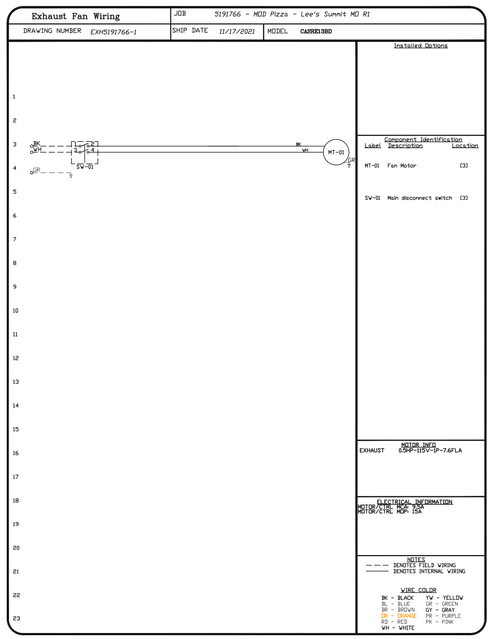
ELECTRICAL

1) CONTRACTOR TO PROVIDE AND INSTALL TOGGLE SWITCH TO CONTROL OPERATION OF EXHAUST FAN
2) SDV COMPLETION IS REQUIRED PRIOR TO OVEN BEING OPERATED

FAN #1 CASRE13BD-DV – EXHAUST FAN (EF)







FEATURES:

- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC-S645.
- HIGH HEAT OPERATION BELT DRIVE 500°F (260°C).
- HEAT SLINGER.
- GREASE CLASSIFICATION TESTING.
- TILT OUT WHEEL.
- LOCKING PIN FOR POWER PACK.
- MOTOR WEATHER COVER.
- INTERLOCKED DISCONNECT SWITCH.
- NEMA 4X SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST BELT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 500°F (260°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST BELT & DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

RE13BD – HIGH TEMPERATURE HEAT & SMOKE OPTION. – 572°F CONTINOUS.
UTILITY SET GREASE CUP.
EXTRA SET OF BELTS.
FAN BASE CERAMIC SEAL – SHIP LOOSE – FOR GREASE DUCTS.
RE11/13 – RAIN CAP ASSEMBLY – INCLUDES HARDWARE AND GASKET.
2 YEAR PARTS WARRANTY.

ROOF/CURB

1) ROOF OPENING BY CONTRACTOR
2) ROOF MEMBRANE PATCH AND REPAIR AS DEFINED ON ARCHITECTURAL DRAWINGS
3) IF ROOF IS PITCHED, CONTRACTOR TO CONFIRM PITCH OF CURB REQUIRED. THIS NEEDS TO BE PROVIDED TO CAPTIVEAIRE PRIOR TO FABRICATION OF MATERIAL

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MOD Pizza - Lee's Summit MO R1
460 Nw Chipman Rd,
Lee's Summit, MO, 64063

DATE: 11/17/2021
DWG.#: 5191766
DRAWN BY: RTB - 85
SCALE: 3/4" = 1'–0"
MASTER DRAWING
SHEET NO. 1

OWNER
MOD

2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD
INTERPLAN
INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE
ENGINEERING
PERMITTING

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PROJECT NO. 2021.0524

CONSULTANT

SEAL

FOR INFORMATION ONLY

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460 NW CHIPMAN RD
LEE'S SUMMIT, MO 64086

ISSUED / REVISED	DATE
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2 DESIGN UPGRADES	10.18.21
3 HOOD REVISION	11.17.21
4 EXISTING CONDITIONS	01.04.21

PERMIT SET 09.20.21

H-001
HOOD DRAWINGS

CHECKED: DAK DRAWN: QN

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
02/02/2022

DUCTWORK #1 PARTS – JOB#5191766 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1229DWLT-2R-S						36.05		1	DOUBLE WALL DUCT - 12" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2	DW1229DWLT-2R-S						36.05		1	DOUBLE WALL DUCT - 12" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3 ASSEMBLED W/P4	DW12DWTEASY-2R-S			1			34.13		1	DOUBLE WALL DUCT - 12" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P3 O=S	DW12DWACCDOORCOV-2R-S						18.57		1	DOUBLE WALL DUCT - 12" INNER ACCESS DOOR & 16" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P5	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P6	DW1247DWAJD-2R-S						83.19		1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL 'V' CLAMPS.
P7	DW1620SADKIT						6.53		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 16" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1620SAD, & HARDWARE BAG 4.
P8	DW1620SADKIT						6.53		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 16" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1620SAD, & HARDWARE BAG 4.
P9 ASSEMBLED W/P10	DW12DWTEASY-2R-S			1			34.13		1	DOUBLE WALL DUCT - 12" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P9 O=S	DW12DWACCDOORCOV-2R-S						18.57		1	DOUBLE WALL DUCT - 12" INNER ACCESS DOOR & 16" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P11	DW1247DWAJD-2R-S						83.19		1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL 'V' CLAMPS.
P12 ASSEMBLED W/P13	DW1235DWLTTP-2R-S						42.19		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P13 ASSEMBLED W/P12	DW1912TP						6.27		1	DUCT TO CURB TRANSITION, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. USED ON BDU11, DU25, 30 & 33.
SYSTEM AT P13							0.00			
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		3	DUCT - 12" DUCT - 16" DOUBLE 'V' CLAMP - 2R INSULATION & SINGLE 'V' CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							481.03			

DOUBLE WALL DUCTING CONFORMS TO NFPA-96 REQUIREMENTS AND COMPLIES WITH UL1978 and UL2221. ETL LISTED UNDER FILE NUMBER 1000082319SAT-006 EEV

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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MOD Pizza - Lee's Summit MO R1
460 NW Chipman Rd,
Lee's Summit, MO, 64063

DATE: 11/17/2021

DWG.#: 5191766

DRAWN BY: RTB - 85

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

MASTER DRAWING

SHEET NO. 3

OWNER

MOD

2035 156th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD

INTERPLAN

INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

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H-002
HOOD DRAWINGS

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DOUBLE WALL FACTORY BUILT DUCTWORK

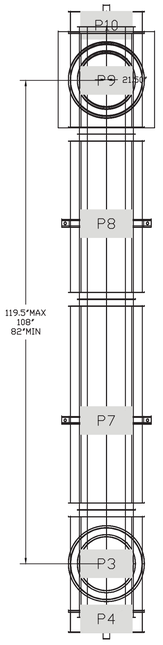
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

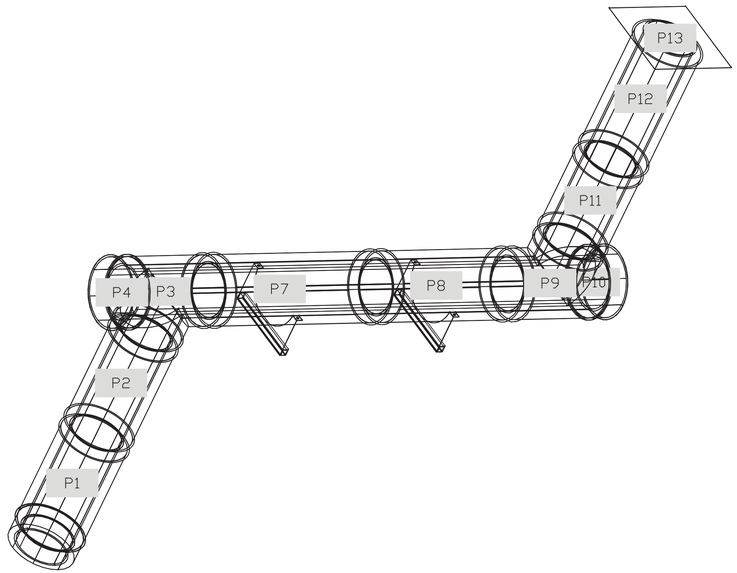
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

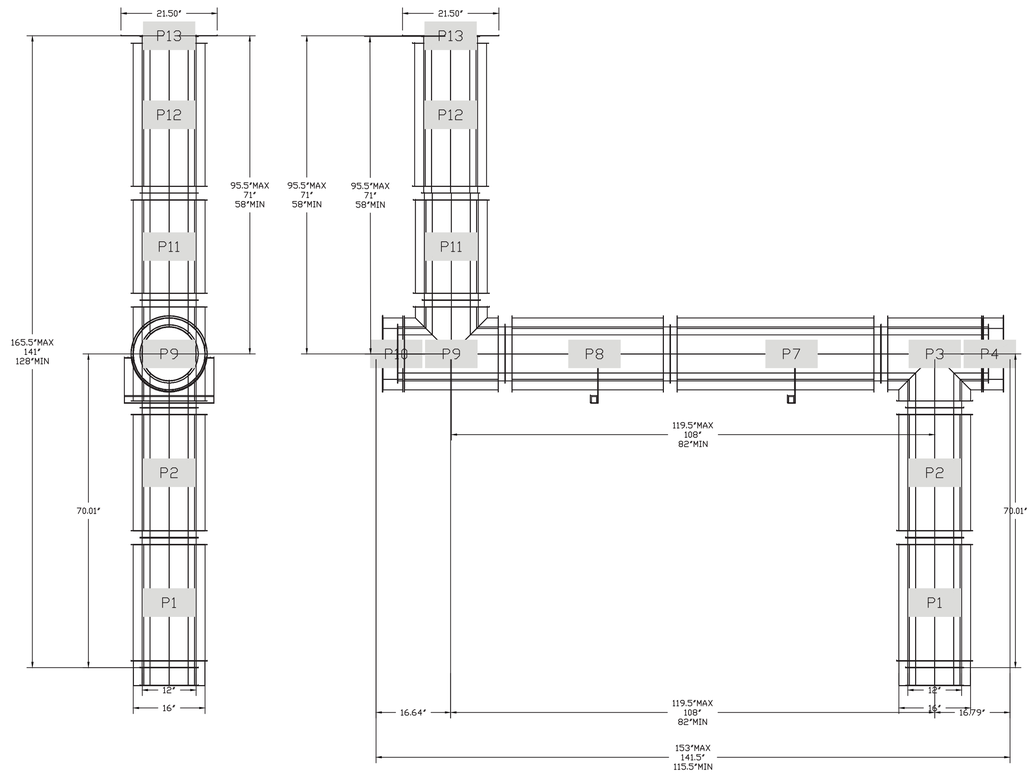
DUCTWORK #1 TOP VIEW



DUCTWORK #1 SE VIEW



DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW



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