

ELECTRICAL COORDINATION SCHEDULE																									
ABBREVIATIONS				CONTRACTOR TYPE				MOTOR CONTROL TYPE										CONTROL TYPE							
DC	LOCAL DISCONNECT			EC	ELECTRICAL CONTRACTOR			CS	COMBINATION STARTER			TC	TIMECLOCK												
MC	MOTOR CONTROL (POWER)			EX	EXISTING			MCC	MOTOR CONTROL STARTER			CPT	CONTROL POWER TRANSFORMER												
SD	DUCT SMOKE DETECTOR			PC	FIRE PROTECTION CONTRACTOR			MS	MAGNETIC STARTER OR CONTACT			BAS	BUILDING AUTOMATION SYSTEM												
GN	CONTROLS			GC	GENERAL CONTRACTOR			MS	MANUAL STARTER			LOW	LOW VOLTAGE CONTROLS												
TS	TOGGLE SWITCH			HVAC	HVAC CONTRACTOR			VFD	VARIABLE FREQUENCY DRIVE			LINE	LINE VOLTAGE CONTROLS												
CB	H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD			MFR	MANUFACTURER			MSR	MANUAL STARTER W/ CONTROL RELAY			RLINE	REVERSE ACTING LINE VOLTAGE THERMOSTAT												
FLA	FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)			PC	PLUMBING CONTRACTOR			OV	OVERCURRENT PROTECTION			MAN	MANUAL												
MCA	MINIMUM CIRCUIT AMPACITY			OR	OWNER OR OTHERS																				
CP	CORD AND PLUG CONNECTION																								
EQUIPMENT MARK	DESCRIPTION	VOLTAGE	PHASE	EMERGENCY	HP	WATTS	HTG KW	FLA	MCA	OCF	FED FROM	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE	FA SHUTDOWN	AVAILABLE FAULT CURRENT	
AC-1-A	Air Curtain w/no Heat	120 V	1					16				EC	EC	EC	MG	MFR	MFR	MFR	LINE	EC	EC	EC	NA	1044	
EF-1-A	HVAC Fan	120 V	1		0.25							EC	EC	EC	MG	MFR	MFR	MFR	MAN	EC	EC	EC	NA	2791	
RTU-1-A	Packaged Rooftop Unit, Gas Heat	208 V	3					124	150			--	--	--	EX	EX	EX	EX	BAS	OR	OR	OR	NA	0	
RTU-2-A	Packaged Rooftop Unit, Gas Heat	208 V	3					124	150			--	--	--	EX	EX	EX	EX	BAS	OR	OR	OR	NA	0	
WH-1-A	Electric Unit Heater	120 V	1				1.5	12.5				EC	EC	EC	MG	MFR	MFR	MFR	INT	MFR	MFR	MFR	NA	1331	
WH-2-A	Electric Unit Heater	120 V	1				1.5	12.5				EC	EC	EC	MG	MFR	MFR	MFR	INT	MFR	MFR	MFR	NA	2125	

DOLLAR TREE PLUMBING ELECTRICAL COORDINATON SCHEDULE

ABBREVIATIONS		CONTRACTOR TYPE				MOTOR CONTROL TYPE				CONTROL TYPE															
DC	LOCAL DISCONNECT	EC	ELECTRICAL CONTRACTOR	CS	COMBINATION STARTER	TC	TIMECLOCK	CPT	CONTROL POWER TRANSFORMER	BAS	BUILDING AUTOMATION SYSTEM	LOW	LINE VOLTAGE CONTROLS	RLINE	REVERSE ACTING LINE VOLTAGE THERMOSTAT										
MC	MOTOR CONTROL (POWER)	EX	EXISTING	MCC	MOTOR CONTROL STARTER	MAN	MANUAL	FLA	FIRE ALARM	CARB	CARBON MONOXIDE SENSOR	INT	INTEGRAL TO EQUIPMENT												
SD	DUCT SMOKE DETECTOR	PC	FIRE PROTECTION CONTRACTOR	MS	MAGNETIC STARTER OR CONTACT	OV	OVERCURRENT PROTECTION																		
GN	CONTROLS	GC	GENERAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE																				
TS	TOGGLE SWITCH	HVAC	HVAC CONTRACTOR	MFR	MANUFACTURER																				
CB	H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD	MFR	MANUFACTURER	MSR	MANUAL STARTER W/ CONTROL RELAY																				
FLUSE	FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)	PC	PLUMBING CONTRACTOR	OR	OWNER OR OTHERS																				
MCA	MINIMUM CIRCUIT AMPACITY																								
CP	CORD AND PLUG CONNECTION																								
EQUIPMENT MARK		DESCRIPTION		VOLTS (V)	PHASE	EMERGENCY	BHP (HP)	HP (HP)	HTG KW (KW)	WATTS (W)	FLA (A)	MCA (A)	OCF (A)	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE
DF1		HOT WATER RECIRCULATING PUMP		120	1				140		52			EC	EC	EC	EC	MG	MFR	MFR	MFR	LINE	PC	PC	PC
WH1		DOMESTIC ELECTRIC WATER COOLER		120	1									EC	EC	EC	EC	MG	MFR	MFR	MFR	INT	MFR	MFR	MFR
WH2		DOMESTIC ELECTRIC TANK-TYPE WATER HEATER		120	1									EC	EC	EC	EC	MG	MFR	MFR	INT	MFR	MFR	MFR	MFR

DOLLAR TREE ELECTRIC REFRIGERATION SCHEDULE

FIXTURE ID	DESCRIPTION	LOAD	POLES	VOLTAGE	OCF	COMMENTS
FREEZER	WALK-IN FREEZER	5719 VA	2	208 V	30	PROVIDE 4"x4" JUNCTION BOX AT 120" AFF WITH 10' WHIP FOR CONNECTION TO EQUIPMENT. NOTE ALL WALK-IN CIRCUITS TO TERMINATE AT THIS JUNCTION BOX. PROVIDE LOCAL DISCONNECT FOR FREEZER REFRIGERATION EQUIPMENT. PROVIDE NEUTRAL FOR BRANCH CIRCUIT. THE MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.
COOLER	WALK-IN COOLER	1548 VA	1	120 V	20	REFER TO FREEZER COMMENTS.
20RC	REACH-IN 2-DR COOLER	3391 VA	2	208 V	20	PROVIDE NEUTRAL FOR BRANCH CIRCUIT. VENDOR PROVIDES DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15' LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.
5DRF	REACH-IN 5-DR FREEZER	6240 VA	2	208 V	30	PROVIDE NEUTRAL FOR BRANCH CIRCUIT. VENDOR PROVIDES DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15' LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.
5DRF	REACH-IN 5-DR FREEZER	6240 VA	2	208 V	30	PROVIDE NEUTRAL FOR BRANCH CIRCUIT. VENDOR PROVIDES DISCONNECT FOR UNIT. PROVIDE JUNCTION BOX AT 100" AFF. PROVIDE 15' LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. THE MANUFACTURER'S REPRESENTATIVE WILL MAKE THE FINAL CONNECTION TO THE INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF START-UP.

ELECTRIC EQUIPMENT SUPPLY SCHEDULE

EQUIPMENT MARK	SUPPLY FROM	CKT	EMERG.	LOAD (KVA)	AVAILABLE FAULT CURRENT	VOLTS	POLE	HTG KW	WATT	HP	FLA (A)	MCA (A)	ROD OCP (A)	BREAKER RATING (A)
AC-1-A	LP2	13		1.73	1044	120 V	1				0.25	16	20	20
EF-1-A	LP1	21		0.70	2791	120 V	1				0.25	16	20	20
WH-1-A	LP2	9		1.50	1331	120 V	1	1.5			12.5		20	20
WH-2-A	LP2	7		1.50	2125	120 V	1	1.5			12.5		20	20

GENERAL ELECTRICAL NOTES

- BEFORE SUBMITTING THE BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH THE JOB CONDITIONS AND VERIFY SERVICE CONNECTIONS, INCLUDING ALL NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUITORS, SWITCH GEAR, METERING, CABLE CHARGES ETC. WHETHER SHOWN ON DRAWINGS OR NOT BUT REQUIRED BY SERVICE UTILITY CO. TO MAKE A COMPLETE AND OPERATING ELECTRICAL SERVICE WITHOUT ADDITIONAL COST TO THE TENANT. VERIFY SERVICES AND CHARGES WITH POWER AND TELEPHONE COMPANIES. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND SPECIFICATIONS, AND SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED BY THE CONTRACTOR FOR COMPLETE INSTALLATION.
- VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT WITH CONTRACTOR, (DOOR HEATERS, UNIT HEATERS, ROOF TOP UNITS, TRANSFER FANS, ETC.).
- ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH LATEST "N.E.C." AND ALL LOCAL CODES AND ORDINANCES. IN CASES OF CONFLICT AMONG REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY.
- ALL CONDUCTORS SHALL BE #12 AWG COPPER, EXCEPT AS OTHERWISE NOTED OR AS REQUIRED FOR VOLTAGE DROP (SEE SPECS.). ALL CONDUIT SHALL BE 1/2" MINIMUM EXCEPT AS OTHERWISE NOTED OR AS REQUIRED FOR CONDUCTORS.
- TENANT'S ELECTRICAL EQUIPMENT SHALL BE RELOCATED AS REQUIRED TO MINIMIZE LENGTH OF CONDUIT/CONDUCTOR BETWEEN SERVICE DISCONNECT SWITCH AND PANEL "MDP". OBTAIN APPROVAL FROM TENANT'S ARCHITECTURAL DEPARTMENT OF PROPOSED LOCATION PRIOR TO INSTALLATION. COST CLAIMS FOR CONDUIT/CONDUCTOR IN EXCESS OF BASE BID WILL NOT BE CONSIDERED IF PANEL RELOCATION IS NOT PROPOSED TO MINIMIZE THESE COSTS PRIOR TO INSTALLATION.
- TELEPHONE: FURNISH AND INSTALL ALL NECESSARY CONDUIT, DEVICE BOXES AND PLATES.
- NEW TELEPHONE SERVICE TO TENANT'S SPACE. NEW TELEPHONE EQUIPMENT BOARD. COORDINATE WITH LANDLORD AND TELEPHONE CO. AS REQUIRED FOR INSTALLING THIS SERVICE.
- FURNISH AND INSTALL 3/4" CONDUIT FROM EACH TELEPHONE OUTLET 1'-0" INTO CEILING CAVITY, OR UP TO JOIST WHERE NO CEILING IS INSTALLED.
- FIRE ALARM SYSTEM:
 - IF THERE IS NO EXISTING FIRE ALARM SYSTEM AND THE NATIONAL, STATE, OR LOCAL CODES OR LOCAL FIRE AUTHORITY HAVING JURISDICTION NOW REQUIRES A FIRE ALARM SYSTEM, FURNISH AND INSTALL DEVICES, COMPONENTS, ETC., AS DIRECTED BY ENFORCING AGENCY.
 - CONNECT ALARM CONTACT(S) OF SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISED VALVE AND AIR DUCT DETECTORS TO FIRE ALARM SYSTEM AS REQUIRED.
 - IF REQUIRED, CONNECT FIRE ALARM DEVICES (AIR DUCT DETECTORS, ETC.) AND ANY OTHER ASSOCIATED EQUIPMENT TO DEDICATED 120V CIRCUIT.
 - PROVIDE LOCAL STATUS INDICATOR AND ALARM FOR ALARM DEVICES WHERE NOT CONNECTED TO FIRE ALARM SYSTEM.
 - VERIFY ALL REQUIREMENTS AND FURNISH AND INSTALL IN ACCORDANCE WITH NFPA, NATIONAL, STATE, LOCAL CODES, LOCAL FIRE AUTHORITY HAVING JURISDICTION AND LANDLORD REQUIREMENTS.

GENERAL POWER PLAN NOTES

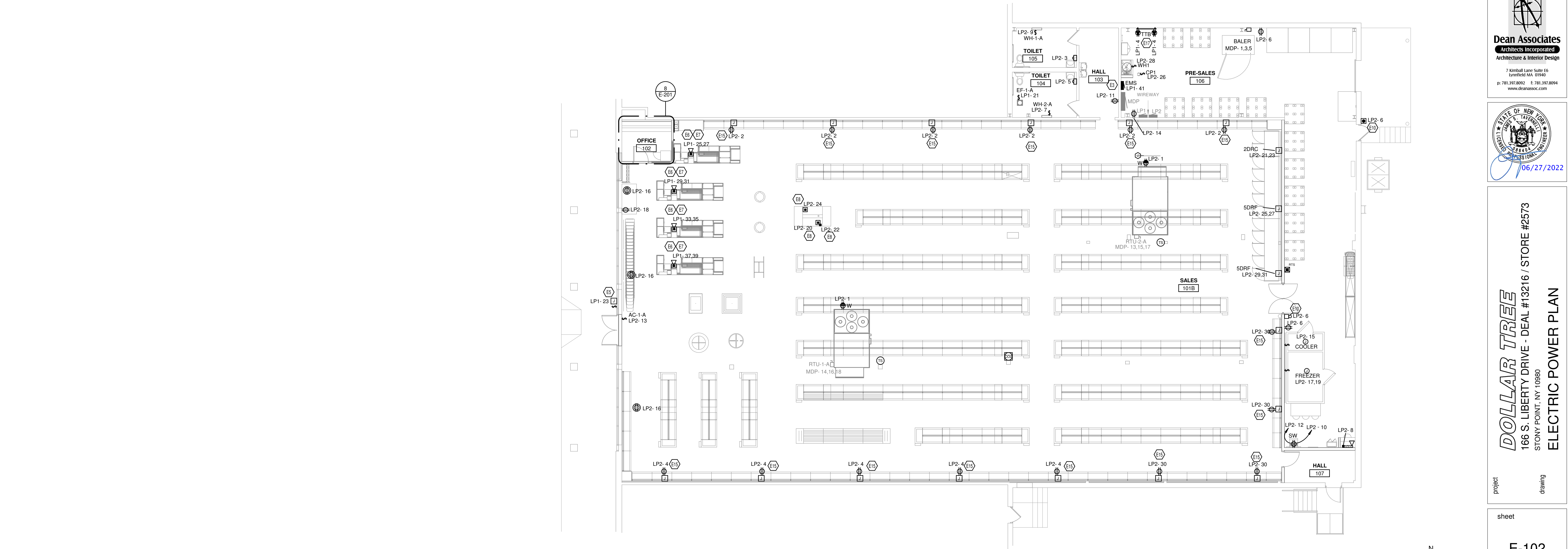
- EQUIPMENT COORDINATION SCHEDULES: REFER TO EQUIPMENT COORDINATION SCHEDULES FOR REQUIREMENTS ASSOCIATED WITH EQUIPMENT CIRCUITING, CONNECTIONS, ANCHORAGE DEVICES AND EQUIPMENT, ETC. COORDINATE EQUIPMENT SUPPLIERS AND INSTALLERS PRIOR TO ORDERING ANY RELATED MATERIALS OR COMMENCING WITH ANY RELATED ROUGH-IN WORK.
- TECHNOLOGY SYSTEMS: PROVIDE RACEWAY AND PATHWAY SYSTEMS FOR ALL TECHNOLOGY WORK. INCLUDE OUTLET BOXES, CONDUITS, RACEWAYS, HOOKS, CABLE TRAY, ETC. AS REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS. COORDINATE ALL RELATED WORK (INCLUDING ASSOCIATED POWER WITH OWNER (INCLUDING OWNERS PROJECT MANAGER), FIELD CONDITIONS, FURNITURE INSTALLERS), TECHNOLOGY INSTALLERS) AND WORK OF OTHER TRADES AND SUPPLIERS/INSTALLERS AS APPLICABLE. TERMINATE ALL CONDUITS FROM OUTLET BOXES TO NEAREST ACCESSIBLE CEILING CAVITY, OR TO OVERHEAD STRUCTURAL SPACE FOR AREAS WITH NO CEILINGS. PROVIDE CONDUITS WITH SWEEP BENDS, PULL STRINGS, PLASTIC BUSINESS AND IDENTIFICATION AT OVERHEAD ENDS. PROVIDE BLANK WALL PLATES TO MATCH WIRING DEVICE WALL PLATES.
- STOREFRONT WINDOWS: INSTALL RECEPTACLE(S) INDICATED ABOVE STOREFRONT WINDOWS WITHIN 18 INCHES OF THE TOP OF STOREFRONT WINDOWS, AND INSTALL COMPLIANT WITH NEC, INCLUDING ARTICLE 210.62.
- GFCI PROTECTION: PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL FOR ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN/FOR THE FOLLOWING LOCATIONS/APPLICATIONS: BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, SINKS (WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FEET FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK), INDOOR WET LOCATIONS, VENDING MACHINES AND AREAS, ELECTRIC WATER COOLERS, LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES, AND GARAGES, SERVICE BAYS, AND SIMILAR AREAS OTHER THAN VEHICLE EXHIBITION HALLS AND SHOWROOMS. PROVIDE GFCI RECEPTACLES AT LOCATIONS THAT ARE AND WILL REMAIN READILY ACCESSIBLE ELSEWHERE PROVIDE GFCI PROTECTION AT THE RESPECTIVE SOURCE CIRCUIT BREAKER.
- TRIM AND DOOR FINISHES: PROVIDE FACTORY-PAINTED OR FIELD-PAINTED TRIMS AND DOORS TO MATCH WALL FINISH COLOR FOR ALL PANELBOARDS AND SIMILAR EQUIPMENT THAT ARE INSTALLED RECESSED IN FINISHED WALLS, IF FIELD-PAINTED, PAINT ALL SIDES AND EDGES WITH TWO COATS OF PAINT BEFORE INSTALLATION, AND LET DRY BEFORE INSTALLING THEM.
- SIGNAGE: COORDINATE ALL SIGNAGE REQUIREMENTS WITH OWNER (INCLUDING OWNERS PROJECT MANAGER), SIGNAGE SUPPLIERS AND INSTALLERS, AND ARCHITECT TO DETERMINE SPECIFICS REGARDING LOCATIONS, POWER, CONTROL, AND OTHER PERTINENT INFORMATION. PROVIDE POWER (ON DEDICATED CIRCUIT(S)) FOR SIGNAGE REQUIRING POWER CONNECTIONS. PROVIDE PHOTOCELL AND TIME-BASED CONTROL, CONFIGURED AS DIRECTED BY OWNER. PROVIDE ALL ELECTRICAL WORK, INCLUDING DISCONNECTING MEANS, COMPLIANT WITH ARTICLE 600 OF NFPA 70, COMPLY WITH LANDLORD REQUIREMENTS WHERE APPLICABLE.

KEYED NOTES

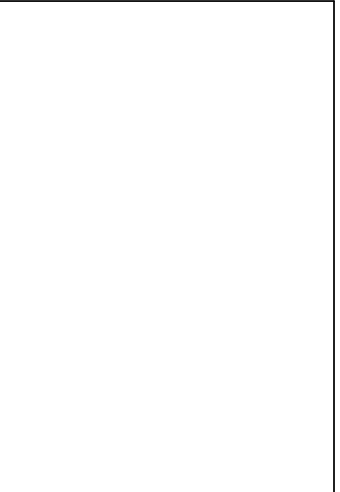
- CONTRACTOR SHALL REFER TO EMS SHEETS FOR INSTRUCTION AND RESPONSIBILITIES FOR INSTALLING TENANT SUPPLIED ENERGY MANAGEMENT SYSTEMS PRIOR TO BIDDING AND INSTALLATION.
- PROVIDE ROUGH IN FOR TENANT STOREFRONT SIGN(S) WHERE APPLICABLE. FINAL CONNECTIONS WILL BE FURNISHED AND INSTALLED BY TENANT'S SIGN CONTRACTOR. FURNISH AND INSTALL DISCONNECT AND JUNCTION BOXES W/ 6" WHIP ON INTERIOR WALL ABOVE ACCESSIBLE CEILING, WHERE INSTALLED OUTDOORS PROVIDE WEATHERPROOF, INSULATED JUNCTION BOX AND WEATHERPROOF DISCONNECT. CONTRACTOR SHALL COORDINATE FINAL EXTERIOR JUNCTION BOX LOCATION WITH SIGN VENDOR. JUNCTION BOXES NEED TO BE WITHIN 5 FEET OF SIGN FOR SIGN VENDOR TO MAKE FINAL ELECTRICAL CONNECTION. IF STORE HAS ADDITIONAL SIDE OR REAR SIGNAGE THE CONTRACTOR SHALL COORDINATE WITH THE SIGN VENDOR FOR ANY ADDITIONAL EXTERIOR SIGNAGE AND THE ASSOCIATED ELECTRICAL REQUIREMENTS. AFTER THE ELECTRICAL DESIGN IS COMPLETE, IT MAY BE DETERMINED THAT CERTAIN SITES REQUIRE SIDE OR REAR SIGNAGE.
- DO NOT CONNECT "ISOLATED" GROUND WIRE TO RACEWAY OR BOX. CONDUIT AND BOX SHALL BE METAL AND METAL-TO-METAL CONNECTORS SHALL BE USED (NO FLEX CONDUIT) TO ESTABLISH GROUND PATH FOR BOX AND RACEWAY. DO NOT RUN ANY CIRCUITS WITH CASH REGISTER OR COMPUTER (IG) CIRCUITS. CASH REGISTER DATA SYSTEM CABLE SHALL BE FURNISHED AND INSTALLED BY OTHERS.
- THREE-CHANNEL TELEPOWER POLE WITH DIVIDER FOR TELEPHONE/DATA, ISOLATED POWER, AND NORMAL POWER. INSTALL TELEPOWER POLE AS SHOWN AT CHECKOUT AREA, WHEN COUNTER IS SET. POWER POLE WILL BE FURNISHED WITH (1) ISOLATED GROUND TWIST LOCK RECEPTACLE (CONNECT ISOLATED GROUND CIRCUIT TO THIS RECEPTACLE) AND (1) DUPLEX RECEPTACLE (CONNECT (1) NORMAL POWER CIRCUIT TO THIS RECEPTACLE).
- POWER POLES ARE OWNER FURNISHED AND CONTRACTOR INSTALLED. PROVIDE ALL NECESSARY MATERIAL TO PROVIDE A COMPLETE INSTALLATION. CONTRACTOR SHALL REFER TO FINAL FIXTURE PLAN FOR SNACK ZONE. CHECKOUT AND ANY OTHER FIXTURE THAT REQUIRES POWER PRIOR TO INSTALLING ELECTRICAL AND DATA.
- SIGNAL SYSTEMS: REAR DOOR BELL AND PUSH-BUTTON: FURNISH AND INSTALL AN EDWARDS #55-6G5, 24V AC "ADAPT-A-BELL" ABOVE CEILING AND A #852 WEATHERPROOF PUSH-BUTTON IN FLUSH (NEW CONST.) SWITCH BOX AT TENANT SPACE BACK DOOR. CONNECT SO THAT BELL SOUNDS WHEN PUSH-BUTTON IS PRESSED.
- MOUNT ON FLOOR AND MAKE MC CONNECTION TO DUPLEX RECEPTACLE INSTALLED IN FIXTURE KICK PLATE. ASSEMBLE JUNCTION BOX AROUND INSTALLED FIXTURE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LANDLORD AND/OR LOCAL UTILITY COMPANY REQUIREMENTS FOR BRINGING A COMPLETE TELEPHONE SERVICE INTO TENANT SPACE.

BID ALTERNATE NOTE

PROVIDE ITEMIZED BID ALTERNATE FOR REMOVING THE FEEDER BETWEEN DISCONNECT D2 AND THE WIREWAY AND RE-FEEDING THE WIREWAY FROM A NEW 200A/3P BREAKER IN PANEL MDP.



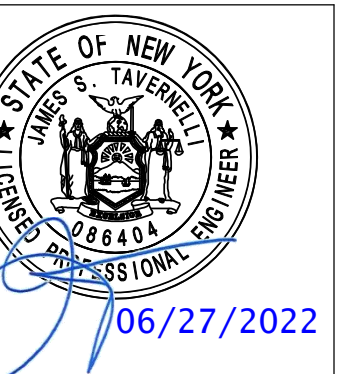
1 ELECTRIC POWER PLAN
1/8" = 1'-0"



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