

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE UNO.
AHJ	AUTHORITIES HAVING JURISDICTION
APPROX	APPROXIMATE
BLDG	BUILDING
CKT	CIRCUIT
CLG	CEILING
CM	STARBUCKS CONSTRUCTION MANAGER
CONST	CONSTRUCTION
CW	COLD WATER
CXA	COMMISSIONING AGENT
DEG	DEGREES
DL	LIGHTS WITHIN DAYLIGHT ZONE
DM	STARBUCKS DESIGN MANAGER
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ECP	EQUIPMENT CONTROL PAC
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EXIST	EXISTING
EXT	EXTERIOR
F&I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HR	HOOR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
LCP	LIGHTING CONTROL PANEL
LL	LANDLORD
LS	LIGHT SENSOR PHOTOCCELL
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
NL	NIGHTLIGHT
NTS	NOT TO SCALE
OCp	OVERCURRENT PROTECTION
REF	REFERENCE
REQ(D)	REQUIRE(D)
REV	REVISION
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATION(S)
SST	STAINLESS STEEL
TEL	TELEPHONE
TEMP	TEMPORARY
Typ	TYPICAL
UNO	UNLESS NOTED OTHERWISE
USB	20A DUPLEX RECEPTACLE WITH USB CHARGING PORT (SEE SPECIFICATION ON THIS SHEET)
WH	WATER HEATER
WP	WEATHER PROOF

ELECTRICAL SYMBOL LEGEND

Ⓜ	JUNCTION BOX	Ⓜ	RECEPTACLE: DUPLEX
\$	SWITCH	Ⓜ	RECEPTACLE: DUPLEX - ONE SWITCHED
\$3	THREE-WAY SWITCH	Ⓜ	RECEPTACLE: QUADPLEX
\$M	MOTION (OCCUPANCY) SENSOR SWITCH	▽	DATA OUTLET
Ⓜ	SWITCHBACK	Ⓜ	RECEPTACLE: FLOOR DUPLEX
▼	TELEPHONE	Ⓜ	GROUNDING ELECTRODE CONNECTION
Ⓜ	THERMOSTAT (EMS)	NL	NIGHTLIGHTING 24HR/DAY
Ⓜ	THERMOSTAT SENSOR (EMS)	DL	PHOTOELECTRIC CELL (EMS)
\$D	DIMMER SWITCH	Ⓜ	SPEAKER
Ⓜ	SPECIAL RECEPTACLE: SEE NOTE/SCHEDULE FOR DETAILS		
Ⓜ	RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. TWO WIRES PLUS GROUND IF NO HASH MARKS SHOWN. LONG HASH MARK DENOTES NEUTRAL. DOT DENOTES GROUND.		

RECEPTACLE WITH USB CHARGING PORT

PROVIDE UL FEDERAL SPECIFICATION CERTIFIED TAMPER-RESISTANT DUPLEX RECEPTACLE WITH USB CHARGING CAPABILITIES. FEATURES SHALL INCLUDE OVERALL 3.1A USB CHARGING CAPABILITY, AUTO GROUND CLIPS, ZINC-PLATED GROUND TERMINAL SCREW AND TRIPLE-WIPE BRASS CONTACTS.
PASS & SEYMOUR #TR5362USB* OR EQUAL
* - FINISH COLOR SHALL BE AS SPECIFIED ON ARCHITECTURAL DRAWINGS OR AS DIRECTED BY OWNER'S REPRESENTATIVE.

CARBON MONOXIDE (CO) DETECTOR NOTES

COORDINATE INSTALLATION OF CARBON MONOXIDE (CO) DETECTOR DEVICE(S) AND LOW VOLTAGE WIRING WITH STARBUCKS SECURITY VENDOR FOR NEW STORES, RELOCATIONS AND MAJOR RENOVATIONS, IF IN VENDOR SCOPE. VENDOR TO PROVIDE AND INSTALL DEVICE(S) IN BOH AND FOH (AS APPLICABLE PER STARBUCKS STANDARDS).

ENERGY MANAGEMENT SYSTEM (EMS)

THE GENERAL CONTRACTOR SHALL INSTALL SURVEYOR EMS. PRIOR TO LAST WEEK OF CONSTRUCTION, IF NEEDED, FURNISH AND INSTALL TEMPORARY THERMOSTATS AND SENSORS, AND ROUTE ALL LOW VOLTAGE WIRING THROUGH EC PROVIDED CONDUITS (COORDINATE WITH ELECTRICAL).

FURNISH AND INSTALL RACEWAYS WITH PULL STRINGS AND JUNCTION BOXES FOR THERMOSTAT(S) AND SENSOR(S).

THE GENERAL CONTRACTOR IS TO COMPLETE FINAL CONNECTION AFTER DATA RACK AND NETWORK INSTALLATION. THE GENERAL CONTRACTOR IS TO CONTACT LCP VENDOR TO VERIFY SYSTEM OPERATION AND TROUBLESHOOT IF REQUIRED.

SECURITY SYSTEM NOTES

STARBUCKS CONTRACTS DIRECTLY WITH SECURITY VENDOR TO SUPPLY AND INSTALL THE SECURITY SYSTEM. CONTRACTOR TO SCHEDULE INSTALLATION OF SECURITY SYSTEM FOR FOUR (4) TIMES;

- MEET TO PLAN SECURITY CABLE PULL WITH SECURITY CABLE INSTALLER PRIOR TO DRYWALL INSTALLATION.
- SECURITY CABLE INSTALLER PULLS SECURITY CABLES, MOUNTS PANEL, KEYPAD AND SENSORS.
- SECURITY EQUIPMENT INSTALL OF CAMERA, NVR AND MONITOR.
- SECURITY MONITORING COMPANY TO BRING SYSTEM ONLINE AND TRAIN PARTNERS AFTER POS INSTALL.

SECURITY VENDOR REQUIRES A MINIMUM TWO (2) WEEKS LEAD TIME FOR EACH INSTALLATION. SECURITY VENDOR WILL COORDINATE REGIONAL INSTALLERS. ALL ADDITIONAL EXPENSES INCURRED DUE TO THE CONTRACTOR'S FAILURE TO SCHEDULE ACCORDINGLY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TELEPHONE SYSTEM NOTES

IF ADDITIONAL TELEPHONE LINES ARE REQUIRED BEYOND THE STANDARD SINGLE LINE (SUCH AS FOR A FIRE ALARM) THE GENERAL CONTRACTOR SHALL CONTACT THE STARBUCKS CONSTRUCTION MANAGER PRIOR TO BEGINNING CONSTRUCTION TO ORDER THE ADDITIONAL TELEPHONE LINE(S). REPORT ANY TELEPHONE INSTALLATION ISSUES IMMEDIATELY TO THE STARBUCKS CONSTRUCTION MANAGER.

CONFIRM PRIOR TO BEGINNING CONSTRUCTION THAT THERE ARE EXISTING, WORKING TELCO FACILITIES TO THE BUILDING OR THAT LANDLORD HAS FURNISHED AND INSTALLED ONE (1) 2" (51MM) MIN. (ENTRANCE) CONDUIT INCLUDING PULL STRING FROM TELCO STREET FEED LINE TO THE BUILDING AS IDENTIFIED BY THE PHONE COMPANY. NOTIFY STARBUCKS CONSTRUCTION MANAGER IMMEDIATELY IF FACILITIES OR CONDUIT AND PULL STRING ARE NOT INSTALLED.

GENERAL CONTRACTOR IS TO ENSURE THAT THERE IS A 2" (51MM) MIN. CONDUIT WITH PULL STRING FROM THE DATA RACK TO THE DEMARC (TELCO TO CUSTOMER HAND OFF EQUIPMENT) WHEN THE DEMARC IS MORE THAN 10' FROM THE DATA RACK. DISTANCES LESS THAN 10' WILL NOT REQUIRE CONDUIT.

FIRE ALARM SYSTEM NOTES

IF STARBUCKS IS REQUIRED TO PROVIDE A FIRE ALARM AND/OR FIRE ALARM MONITORING AND/OR PHONE LINES FOR A FIRE ALARM, AS SPECIFIED IN THE LEASE AGREEMENT, THE CONTRACTOR IS TO NOTIFY GNOC IMMEDIATELY THAT FIRE ALARM LINES ARE NEEDED. STARBUCKS PREFERRED FIRE ALARM SERVICE PROVIDER, STANLEY, IS TO BE CONTACTED BY THE CONSTRUCTION MANAGER TO INSTALL FIRE ALARM PANEL AND/OR MONITORING SERVICE AS REQUIRED.

WIRELESS NETWORK NOTES

CABLING FOR INTERNET SERVICE SHALL BE FURNISHED AND INSTALLED BY THE VENDOR FOR FIBER OR BROADBAND CONNECTIONS. T1 AND ETHERNET EXTENSION CABLING IS PROVIDED BY THE STARBUCKS (TELEPHONE/ NETWORK) CABLING VENDOR. COORDINATE WITH STARBUCKS.

MUSIC SYSTEM NOTES

MOUNT OWNER FURNISHED SPEAKERS WHERE SHOWN ON INTERIOR REFLECTED CEILING PLANS AND IN COORDINATION WITH ALL PLANS, DETAILS AND MANUFACTURER'S INSTALLATION REQUIREMENTS. INSTALL AND CONNECT OWNER FURNISHED WIRING SYSTEM BETWEEN ALL SPEAKERS AND THE OWNER PROVIDED MUSIC SYSTEM. SET WATTAGE TAP ON EACH SPEAKER'S ROTARY SWITCH PER TAP SETTINGS NOTED ON PLANS.

GENERAL ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS. OVERALL CASEWORK COMPONENT DIMENSIONING ON ELECTRICAL DETAILS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE PROJECT MANUAL.
- ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANEL BOARD.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM OUTAGES WITH THE GENERAL CONTRACTOR AND LANDLORD AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT AND J-BOXES TO SUPPORT A COMPLETE SECURITY, PHONE, POS AND DATA SYSTEMS. SEE MANAGER WORKSTATION AND BAR POINT OF SALE (POS) POWER/TELECOM/SECURITY DIAGRAM. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE END-TO-END PULL STRINGS IN ALL CONDUITS. LABEL EACH END OF THE PULL STRING WITH CONDUIT SYSTEM ("SECURITY") AND DESTINATION ("CAFE", "FRONT BAR", ETC.). PROVIDE INSULATED BUSHINGS ON ALL STUBBED-UP AND EXPOSED CONDUIT ENDS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.
- EXPOSED/SURFACE MOUNTED CONDUITS SHALL ONLY BE ALLOWED WHERE NECESSARY IN EXPOSED CEILING AREAS. IF CONDUITS NEED TO BE SURFACE MOUNTED TO WALLS, COORDINATE WITH STARBUCKS CONSTRUCTION MANAGER FOR APPROVAL.
- VERIFY LOCATION OF ALL OUTLETS AND SWITCHES WITH ARCHITECTURAL DRAWINGS, INTERIOR DETAILS, FINISH SCHEDULES, GENERAL CONTRACTOR, EQUIPMENT VENDORS, STARBUCKS AND EXISTING SITE CONDITIONS. VERIFY FINAL DOOR HINGE LOCATION PRIOR TO SWITCH INSTALLATION AND ADJUST SWITCH LOCATION IF NEEDED. DO NOT MOUNT RECEPTACLES/SWITCHES IN LOCATIONS THAT WOULD CONFLICT WITH MIRRORS, SEAMS OF WALLS, WAINSCOTS, TILE TRANSITIONS, ETC...

GENERAL NOTES

SCOPE
THE INTENT OF THE DRAWINGS AND PROJECT MANUAL IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK.

SITE EXAMINATION
THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.

STANDARDS
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF CSA, UL, NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES
ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE PROVINCIAL AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES, THE HIGHEST STANDARD SHALL APPLY. ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.

PERMITS AND FEES
THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.

WARRANTY
THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

LANDLORD REQUIREMENTS

PRIOR TO BID: THE CONTRACTOR SHALL COORDINATE WITH LANDLORD / BUILDING OWNER FOR ANY CONSTRUCTION REQUIREMENTS. IF LANDLORD / BUILDING OWNER DOES HAVE REQUIREMENTS, CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH REQUIREMENTS AND ADHERE TO THEM. WHERE LANDLORD / BUILDING OWNER REQUIREMENTS ARE MORE STRINGENT THAN SHOWN IN THESE PLANS (IN THE OPINION OF THE ENGINEER), LANDLORD / BUILDING OWNER REQUIREMENTS SHALL GOVERN.

WORK DESCRIPTION	RESPONSIBILITY	
	LANDLORD	STARBUCKS
MAIN BUILDING SERVICE AND POWER METER	EXISTING	
ELECTRICAL PANELS AND FEEDERS	X	
TEMPORARY POWER	X	
ELECTRICAL PANEL BREAKERS	X	
ABOVE FLOOR BRANCH CIRCUIT DISTRIBUTION		X
UNDER-FLOOR / SLAB POWER CONDUITS IN BUILDING (WIRING BY STARBUCKS)		X
UNDERGROUND SITE CONDUITS FOR DT, SIGNS, MENU BOARD, DETECTOR LOOP & DCB (WIRING / CABLING BY STARBUCKS)		X
SITE LIGHTING	X	
EXTERIOR BUILDING & PATIO LIGHTING	X	
DATA & PHONE SERVICE, DMARC & (2) 2" CONDUITS TO STARBUCKS SPACE		X
DT WINDOW POWER		X
DT WINDOW EXTERIOR LIGHTS (2 EACH)		X
FIRE ALARM SYSTEM		X


REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005
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11-09-23
BUILDING
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DEPARTMENT

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FOR CONSTRUCTION



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11/06/2023

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PROJECT NAME:
US 17-92 & LAKE MARY BLVD

PROJECT ADDRESS:
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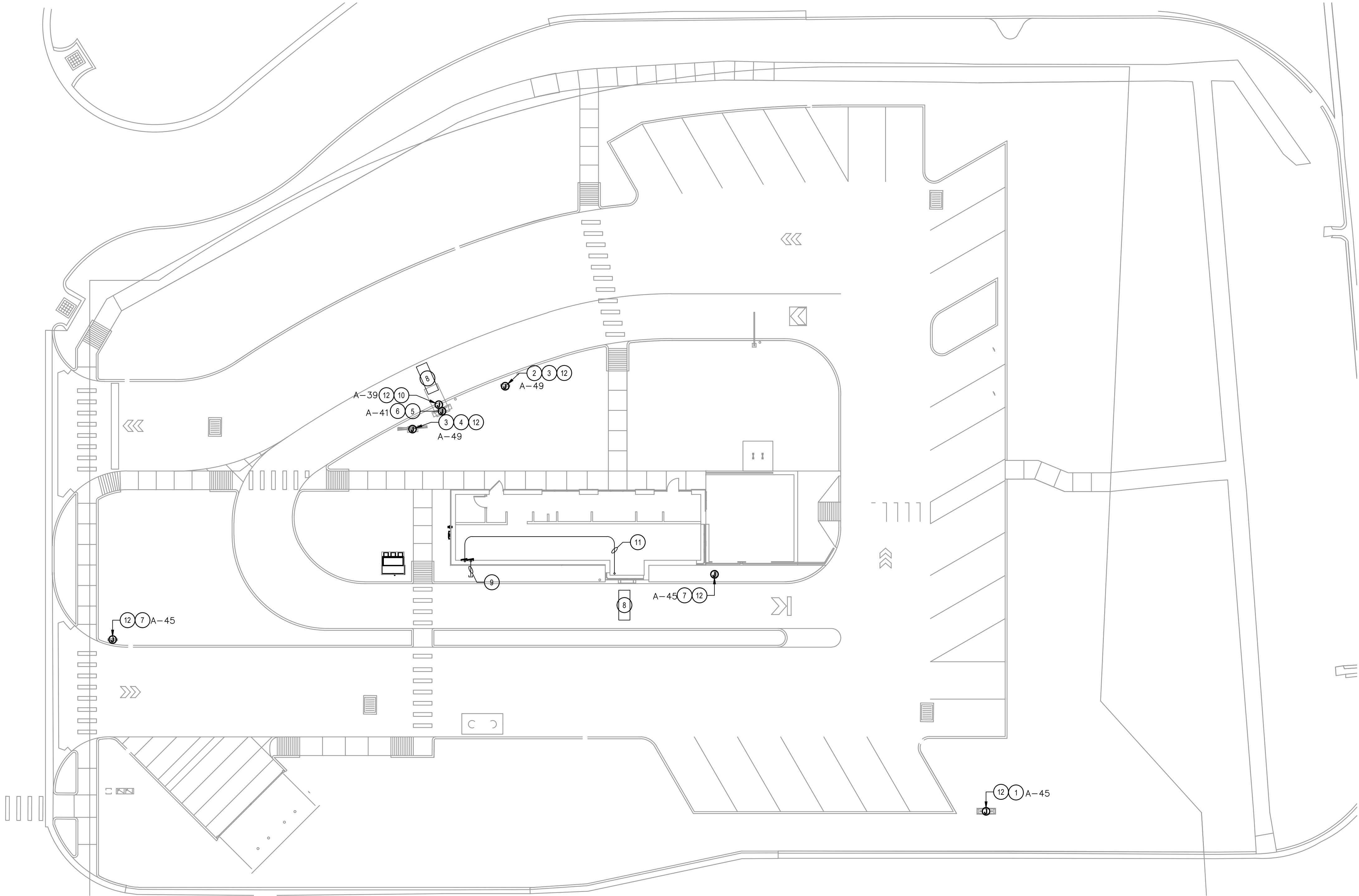
STORE #: 81065
PROJECT #: 98504-001
ISSUE DATE: 08-03-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:
ELECTRICAL NOTES

SCALE: AS INDICATED

SHEET NUMBER:
E-001



1 ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

KEY NOTES: (NOT ALL NECESSARILY USED AT THIS LOCATION)

- 1 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 2 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO PRE-MENU SIGN. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 3 EXISTING (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
- 4 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO MENU SIGN. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 5 PROVIDE DATA IN EXISTING (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW - SEE LOW-VOLTAGE CABLE NOTES.
- 6 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 7 PROVIDE POWER IN EXISTING (1) 1" PVC CONDUIT TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- 8 EXISTING (1) 3/4" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
- 9 EXISTING (1) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF STUB UP WITH TENANT'S REPRESENTATIVE.
- 10 PROVIDE POWER IN (1) 1" PVC CONDUIT TO CANOPY UPLIGHT FROM ELECTRICAL PANEL.
- 11 PROVIDE (1) 1-1/2" CONDUIT FROM DATA RACK AT MANAGER WORKSTATION TO DRIVE-THRU BUMP.
- 12 CIRCUIT SERVING THIS DEVICE SHALL BE AUTOMATICALLY CONTROLLED. FURNISH AND INSTALL ALL CONDUIT, WIRE, CONNECTIONS, AND CONTACTORS NECESSARY TO ENSURE A FUNCTIONAL SYSTEM (SEE LIGHTING CONTROL DIAGRAM ON E-6001).
- 13 PROVIDE POWER IN EXISTING (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

ELECTRICAL SITE PLAN NOTES

- A. VERIFY FULL SCOPE OF WORK WITH LANDLORD WORK LETTER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR THE GC'S FAILURE TO FULLY UNDERSTAND THE SCOPE.
- B. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECTURAL AND CIVIL PLANS, AND OTHER TRADES.
- C. SIGN LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED FROM THE ARCHITECTURAL AND CIVIL PLANS, AND THE CONSTRUCTION MANAGER.
- D. REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.
- E. FOR ALL SIGN / MENU LOCATIONS, VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUCTORS AND OVERCURRENT PROTECTION FOR A COMPLETE INSTALLATION.

REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
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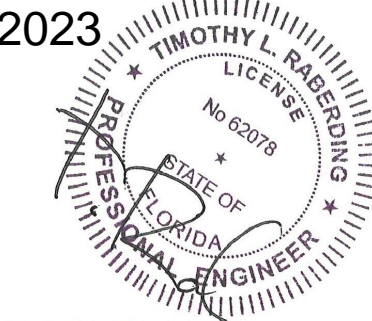
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Revision Schedule		
Rev	Date	Description

SHEET TITLE:
ELECTRICAL SITE
PLAN

SCALE: AS INDICATED

SHEET NUMBER:
E-004



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Revision Schedule		
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SHEET NUMBER:

E-004.1



1. 1" LOOP, SPEAKER, MIC CONDUIT PROVIDE SPEAKER WIRING, (2) 2 PAIR 22 AWG 7x30 INDIVIDUALLY SHIELDED CM CONDUCTORS SHALL BE RATED INDOOR/OUTDOOR WET LOCATION, INSTALL FROM DCB PANEL TO DT POS AREA, VERIFY TERMINATION REQUIREMENT WITH EQUIPMENT INSTALLER.
2. 1" KANEX CAMERA, SPARE CONDUIT PROVIDE (3) DATA CABLE (CAT6) FROM DCB PANEL TO DT POS AREA, PROVIDE 23 AWG CAT6 CONDUCTORS SHALL BE RATED SUITABLE FOR WET APPLICATIONS OUTDOOR DIRECT BURIAL, VERIFY TERMINATION REQUIREMENT WITH EQUIPMENT INSTALLER.

1 DTE CONDUIT SCHEMATIC

- ① (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS MONUMENT SIGNAGE. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- ② (1) 1" PVC CONDUIT FOR POWER CONNECTION TO PRE-MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- ③ (1) 1" PVC CONDUIT FOR FUTURE USE TO MENU SIGN AND TO PRE-MENU SIGN.
- ④ (1) 1" PVC CONDUIT FOR POWER CONNECTION TO MENU SIGN AND (1) 1" PVC CONDUIT WITH PULL STRING CONTINUOUS TO TELEPHONE BOARD FOR DATA CONNECTION. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- ⑤ (2) 1" PVC CONDUITS FROM OCS/SPEAKER POST (AKA DOS/DCB) TO DRIVE-THRU WINDOW - SEE LOW-VOLTAGE CABLE NOTES.
- ⑥ PROVIDE (1) 1" PVC CONDUIT FROM OCS/SPEAKER POST (AKA DOS/DCB) TO ELECTRICAL PANEL. PROVIDE WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- ⑦ (1) 1" PVC CONDUIT FOR POWER CONNECTION TO STARBUCKS DIRECTIONAL SIGNAGE. NOTE THAT UP TO THREE DIRECTIONAL SIGNS CAN BE SERVED BY A SINGLE CIRCUIT. ADDITIONAL SIGNS REQUIRE A NEW DEDICATED CIRCUIT AND CONDUIT. PROVIDE A WEATHERPROOF JUNCTION BOX WITH DISCONNECT SWITCH.
- ⑧ (1) 3/4" PVC CONDUIT FOR EACH OF TWO TENANT-FURNISHED DETECTOR LOOP SETS IN COORDINATION WITH TENANT CONSTRUCTION MANAGER.
- ⑨ (1) SPARE 1" PVC CONDUIT THRU FOUNDATION WALL OUT REAR OF BUILDING, CAPPED AND TERMINATED ABOVE CEILING. VERIFY LOCATION OF STUB UP WITH TENANT'S REPRESENTATIVE.
- ⑩ (1) 1" PVC CONDUIT TO CANOPY UPLIGHT FROM ELECTRICAL PANEL.
- ⑪ (1) 1-1/2" CONDUIT FROM DATA RACK AT MANAGER WORKSTATION TO DRIVE-THRU BUMP.
- ⑫ CIRCUIT SERVING THIS DEVICE SHALL BE AUTOMATICALLY CONTROLLED. (SEE LIGHTING CONTROL DIAGRAM ON E-601).
- ⑬ (2) 1" PVC CONDUIT TO PATIO AREA FROM ELECTRICAL PANEL.

A. VERIFY FULL SCOPE OF WORK WITH LANDLORD WORK LETTER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR THE GC'S FAILURE TO FULLY UNDERSTAND THE SCOPE.

B. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECTURAL AND CIVIL PLANS, AND OTHER TRADES.

C. SIGN LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY, ACTUAL LOCATIONS SHALL BE DETERMINED FROM THE ARCHITECTURAL AND CIVIL PLANS, AND THE CONSTRUCTION MANAGER.

D. REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.

E. FOR ALL SIGN / MENU LOCATIONS, VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUCTORS AND OVERCURRENT PROTECTION FOR A COMPLETE INSTALLATION.

REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A
LICENSE TO PROCEED WITH THE WORK AND NOT AS
AUTHORITY TO VIOLATE, CANCEL, ALTER OR SET
ASIDE ANY OF THE PROVISIONS OF THE TECHNICAL
CODES, NOR SHALL ISSUANCE OF A PERMIT PREVENT
THE BUILDING OFFICIAL FROM THEREAFTER
REQUIRING A CORRECTION OF ERRORS IN PLANS,
CONSTRUCTION OR VIOLATIONS OF THIS CODE.

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BC23-000692

ELECTRICAL DESIGN PLAN NOTES

- A. REFER TO ELECTRICAL DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- B. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT AND PROVIDING BUCK-BOOST TRANSFORMERS AS MAY BE NEEDED FOR CODE. ALL ARE NOT NECESSARILY INDICATED.
- C. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER.
- D. ALL FUTURE EQUIPMENT NEEDED HEREIN SHALL BE PROVIDED WITH AN APPROPRIATE RECEPTACLE AND FULLY WIRED. EVEN IF NOT SPECIFICALLY INDICATED.
- E. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED WHERE REQUIRED BY CODE AND AT ANY FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS.
- F. EQUIPMENT REQUIRES CONNECTION TO THE BUILDING ELECTRICAL SYSTEM. FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, CONNECTIONS, RECEPTACLES AND OVERCURRENT PROTECTION NECESSARY TO ENSURE THE EQUIPMENT FUNCTIONS PROPERLY AND COMPLIES WITH ALL APPLICABLE LOCAL AND NATIONAL CODES. COORDINATE EQUIPMENT REQUIREMENTS WITH MANUFACTURER CUT SHEET PRIOR TO ROUGH-IN.
- G. ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND ONE (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
- H. REFERENCE LANDLORD WORK LETTER FOR DIVISION OF ELECTRICAL SCOPE OF WORK AND COORDINATE WITH STARBUCKS CONSTRUCTION MANAGER.

DEVICE SCHEDULE

DEVICE ID	DESCRIPTION	NEMA	VOLTS	NOTES	QUANTITY
10075	CUP LABELER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	3
10075Q	CUP LABELER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	1
10267	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE @ 26" AFF	7
10312	SERVER STAND	5-15	120V 1P 2W	PROVIDE (1) QUADRAPLEX RECEPTACLE BELOW COUNTER FOR EVERY (4) SERVER STANDS (MAX)	1
10746	DUAL BREWER	14-50	208/120V 2P 3W	SEE DRAWING NOTE	1
10874	INSTA-HOT	5-20	120V 1P 2W	PROVIDE RECEPTACLE 26" AFF ON DEDICATED GFCI PROTECTED CIRCUIT.	1
11083	2-DOOR R-I REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE ON DEDICATED CIRCUIT @ 84" AFF	2
12508	BLENDER	5-15	120V 1P 2W	PROVIDE A DUPLEX FOR EACH BLENDER ON DEDICATED CIRCUIT. MOUNT DUPLEX UNDER COUNTER.	2
12618	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	RECEPTACLE @ 26" AFF	1
13682	2-DOOR R-I FREEZER	5-20	120V 1P 2W	PROVIDE RECEPTACLE ON DEDICATED CIRCUIT @ 84" AFF	2
15186	SANITIZER	14-50R	208/120V 2P 3W		1
15749	INSTA-HOT	5-20	120V 1P 2W	PROVIDE QUAD RECEPTACLE 26" AFF ON DEDICATED GFCI PROTECTED CIRCUIT FOR INSTA-HOT AND U.C. REFRIGERATOR	3
16623	DIGITAL SCALE & GRINDER	5-15	120V 1P 2W	PROVIDE RECEPTACLE BELOW COUNTER	1

DEVICE SCHEDULE

DEVICE ID	DESCRIPTION	NEMA	VOLTS	NOTES	QUANTITY
18846	ICE MACHINE		208V 2P 2W	CONFIRM VOLTAGE CONFIGURATION PRIOR TO ROUGH IN. CONFIRM NEMA CONFIGURATION OF RECEPTACLE OR INSTALL J-BOX AS REQUIRED. CONDENSER UNIT WIRING RUN FROM TERMINAL BLOCK IN INDOOR UNIT TO CONDENSER IF APPLICABLE.	1
19742	ESPRESSO MACHINE	6-50	208/120V 2P 3W	VERIFY FINAL CONNECTION REQUIREMENTS WITH EQUIPMENT MFGR	3
20010	1-DOOR UC REFRIGERATOR	5-15	120V 1P 2W	PROVIDE RECEPTACLE @ 26" AFF	1
20032	TURBOCHEF OVEN	6-30	208/120V 2P 3W	SEE DRAWING NOTE.	2
21679	NITROGEN GENERATOR	5-15	120V 1P 2W	PROVIDE 120V RECEPTACLE	1
X4001	SURFACE MTD HAND DRYER		120V 1P 2W	COORDINATE EXACT VOLTAGE/WIRING REQUIREMENTS WITH VENDOR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1

GROUND FAULT PROTECTION NOTES:

PROVIDE GFCI PROTECTION AS REQUIRED BY NEC 210.8.

CIRCUITS REQUIRING GFCI PROTECTION IDENTIFIED WITH * ON PANEL SCHEDULES (SEE E-601).

ABOVE-COUNTER RECEPTACLES THAT ARE READILY ACCESSIBLE AND WITHIN REACH OF PARTNERS SHALL BE GFCI TYPE.

BELOW-COUNTER RECEPTACLES, OR RECEPTACLES THAT ARE DIFFICULT TO REACH OR REQUIRE MOVING EQUIPMENT TO RESET, AND ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI CIRCUIT BREAKERS.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, CONTACT CIRCUIT BREAKER MANUFACTURER AND PROVIDE GFCI TYPE CIRCUIT BREAKER THAT SERIES RATES WITH PANEL OVER CURRENT PROTECTION IF AVAILABLE.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, AND GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE DEAD-FRONT GFCIS (IN A READILY ACCESSIBLE LOCATION) TO SERVE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE.

KEY NOTES

- DUAL BREWER: PROVIDE NEMA 14-50R RECEPTACLE, HUBBELL HBL9450A SERIES OR EQUAL MOUNTED AT 48" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL. PROVIDE NEMA 14-50P ANGLED PLUG AND CORD, HUBBELL HBL9452C SERIES OR EQUAL.
- ESPRESSO MACHINE: PROVIDE NEMA 6-50R RECEPTACLE, HUBBELL9367 SERIES OR EQUAL MOUNTED AT 30" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL. PROVIDE NEMA 6-50P ANGLED PLUG, HUBBELL HBL9368 SERIES OR EQUAL.
- WARMING OVEN: PROVIDE NEMA 6-30R RECEPTACLE MOUNTED AT 26" AFF AND INSTALL NECESSARY CONDUIT, WIRE AND CONNECTIONS BACK TO SERVING PANEL.
- CUP LABELER OR MOBILE ORDER PRINTER: PROVIDE RECEPTACLE AND BACKBOX FOR DATA OUTLET MOUNTED AT 26" AFF. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
- FLOOR POWER/DATA: SEE PENETRATION PLAN FOR EXACT DIMENSIONING OR LOCATION.
- POS: FURNISH AND INSTALL DOUBLE-DUPLEX MOUNTED AT 18" AFF PROVIDE DEDICATED GROUND WIRE BACK TO SERVING PANEL. INSTALL (1) J-BOX FOR DATA OUTLET AND (1) J-BOX FOR PHONE OUTLET MOUNTED AT 18" AFF. SEE DETAILS ON E-501.
- ALARM KEYPAD AND EMERGENCY CALL PHONE: MOUNT AT 54" AFF. ROUTE CONDUIT IN WALL FROM J-BOX AND STUB ABOVE CEILING.
- ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
- PROVIDE "SHOW WINDOW" RECEPTACLE FLUSH MOUNTED IN CEILING WITHIN 18" OF TOP OF WINDOW, 1 PER 12 LF OF WINDOW OR MAJOR FRACTION THEREOF (NEC 210.62).
- WATER FILTER SYSTEM: PROVIDE GFCI RECEPTACLE MOUNTED AT 78" AFF IF APPLICABLE.
- RECEPTACLE FOR FUTURE USE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE.
- DATA OUTLET FOR FUTURE USE: PROVIDE BACKBOX FOR DATA OUTLET MOUNTED AT 26" AFF. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
- PROVIDE RECEPTACLE FOR RINSE SINK MOUNTED AT 26" AFF. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
- EXHAUST FAN: SHALL BE CONNECTED TO EMS/LIGHTING CONTROL PANEL; FAN TO RUN CONTINUOUSLY DURING OCCUPIED MODE (SEE DETAIL 5 ON E-502). CONFIRM EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT(S) OF ALL CONVENIENCE RECEPTACLES WITH OWNER'S REPRESENTATIVE.
- PROVIDE 4-SQUARE J-BOX FOR FRONT OF HOUSE STROBE LOCATION; SEE DETAIL ON E-501.
- PROVIDE 4-SQUARE J-BOX FOR BACK OF HOUSE STROBE LOCATION; FIELD
- PROVIDE DUPLEX, GFCI TYPE RECEPTACLE FOR RECIRC PUMP. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
- PROVIDE DOUBLE-DUPLEX RECEPTACLE FOR UNDER COUNTER REFRIGERATOR AND FUTURE USE. SEE DETAIL ON E-501.
- SEE SHEET E-102 FOR SWITCHING DESIGNATIONS.
- COORDS. SHALL BE BASED ON A PERMIT PRESENT.
- LOCATION OF EXISTING SERVICE ENTRANCE (DISCONNECT AND METERING) REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.

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BC23-000692

FOR CONSTRUCTION

PROJECT NAME:
US 17-92 & LAKE MARY
BLVD

PROJECT ADDRESS:
3764 ORLANDO DRIVE
SANFORD, FL 32773

STORE #: 81065
PROJECT #: 98504-001
ISSUE DATE: 08-03-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:
ELECTRICAL DESIGN
PLAN

SCALE: AS INDICATED

SHEET NUMBER:

E-101



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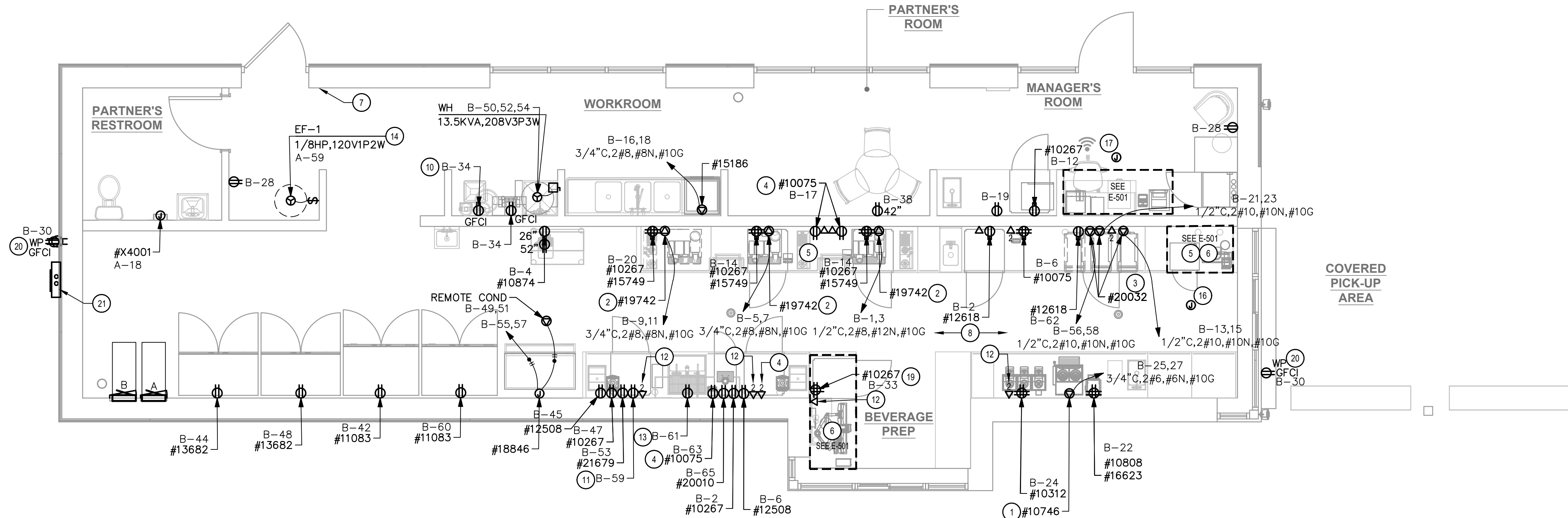
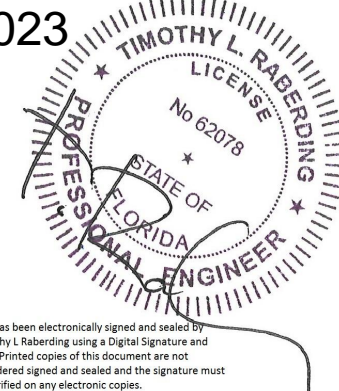
Donald J. Rethman
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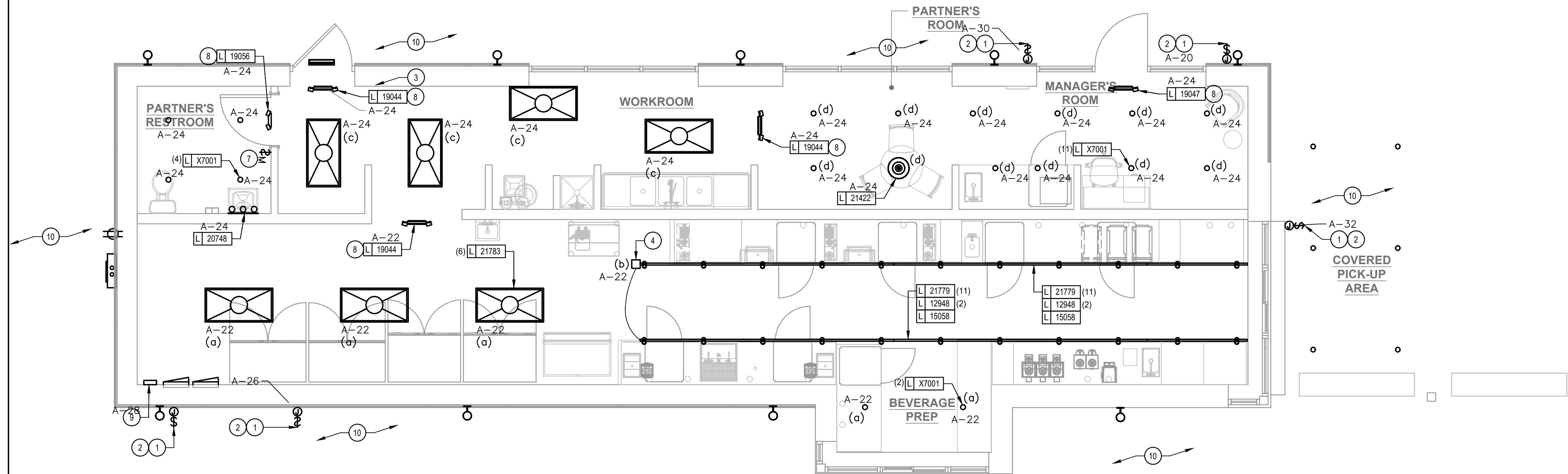
11/06/2023



LIGHTING FIXTURE SCHEDULE 'L'

DESIGN ID	QUANTITY	DESCRIPTION	RESP.	MODEL	LAMP	MAX WATTS	DESIGN ID	QUANTITY	DESCRIPTION	RESP.	MODEL	LAMP	MAX WATTS
12948	4	TRACK – WITH CONNECTORS – 16FT – BLACK	GC-SB	TRACK: (4) JUNO R4BL END FEED CONN: (1) JUNO R38BL MINI CONNECTOR: (3) JUNO R23BL ADJUSTABLE CONN: (1) JUNO R20BL		0	19044	3	LED EXIT SIGN WITH EMERGENCY LIGHT – WHITE AND RED	GC-SB	NAVILITE #NXPCL3RWH	INTEGRAL LED	5
							19047	1	LED EXIT SIGN WITH EMERGENCY LIGHT – BLACK AND GREEN	GC-SB	NAVILITE #NXPCL3GBL	INTEGRAL LED	5
15058	2	TRACK – WITH CONNECTORS – 6FT 183CM – BLACK	GC-SB	TRACK: (1) JUNO R4BL & (1) R2BL END FEED CONN: (1) JUNO R38BL MINI CONNECTOR: (3) JUNO R23BL ADJUSTABLE CONN: (1) JUNO R20BL		0	19056	1	LED EMERGENCY LIGHT DOUBLE – WHITE	GC-SB	CONFIRM MODEL NUMBER WITH VENDOR	INTEGRAL LED	5
							20748	1	SCONCE – KUZCO PLUTO TRIPLE – CHROME	VD	CONFIRM MODEL NUMBER WITH VENDOR	INTEGRAL LED	15
21779	22	TRACK – LED FIXTURE WITH SNOOT – 3IN 75MM – BLACK – 1100LM FLOOD	GC-SB	LEDRA #350440-13LM-30K-90CRI-38DEG-120-ELV-BK 350440/SNOOTBK	INTEGRAL LED	14	21422	1	SOFT CONE PENDANT	GC-SB	REJUVINATION #A2373 – UNGLAZED TOAST-OIL-BUBBED BRONZE	(1) 6W	6
							21783	7	TROFFER – LED RECESSED – 24X48IN – 600X1200MM – WHITE – 3900LM	GC-SB	ILP #PAN24-36WLED-U-35	INTEGRAL LED	36
							X7001	17	CAN – LED ADJUSTABLE RECESSED – 3IN 75MM – BLACK – 800LM FLOOD	GC-SB	LEDRA #NU3-RA-SW-13LM/12W-27K-90CRI-S35-120-DIM10-NC-BK-BK	INTEGRAL LED	12

SB	STARBUCKS
GC	GENERAL CONTRACTOR
VD	VENDOR
LL	LANDLORD



1 LIGHTING PLAN

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

- A. ALL FIXTURES IN WORK ROOM, BACK AND FRONT LINE, ABOVE CONDIMENT CART, AND ANY OTHER AREAS WHERE EXPOSED FOOD, CLEAN EQUIPMENT OR UTENSILS, OR UNWRAPPED SINGLE SERVICE ITEMS WILL BE EXPOSED, SHALL HAVE SHATTERPROOF LAMPS IF THE FIXTURE IS NOT LENSED. THE ARCHITECT OF RECORD SHALL BE REQUIRED TO INCLUDE APPROPRIATE LAMPS' FIXTURES ON DRAWINGS AND SCHEDULES, AND COMPLY WITH ANY ADDITIONAL JURISDICTIONAL LIGHTING REQUIREMENT.
- B. PROVIDE GROMMET AT ALL CEILING PENETRATIONS FOR FIXTURES/SUPPORTS.
- C. CENTER EMERGENCY/EXIT LIGHTS ABOVE DOORS, UNLESS OTHERWISE NOTED.
- D. ADJUST FOCUS OF ALL TRACK AND RECESSED DIRECTIONAL LIGHTING TO FULLY ILLUMINATE ALL ARTWORK, MENU BOARDS, AND MERCHANDISE BAYS.
- E. IF PENDANT CYLINDERS CAN SUSPENDED LENGTH EXCEEDS 48" (1220MM) FROM CEILING, REPLACE WITH SURFACE MOUNTED CYLINDER CANS AND SUSPEND WITH GENERAL CONTRACTOR SUPPLIED CONDUIT AND J-BOX TO DIMENSIONED HEIGHT.
- F. REFER TO POWER PLAN FOR PANELBOARD LOCATIONS.

- 1 ELECTRICAL CONTRACTOR TO VERIFY THAT A WEATHERPROOF SWITCH IS PROVIDED BY THE SIGN COMPANY. IF NOT ONE MUST BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2 ELECTRICAL CONTRACTOR TO PROVIDE DIRECT ACCESSIBLE POWER FOR ALL ELECTRICAL SIGNAGE WITHIN 6'-0" OF THE SIGN LOCATION PROVIDE CONDUIT AND STUB THRU WALL, J-BOX AND ANY REQUIRED O.C.P. CIRCUIT THROUGH NEW LIGHTING CONTROL PANEL (SEE DETAILS ON E-502 AND E-601).
- 3 SWITCH BANK LOCATION: SEE CONTROL ZONE DETAIL ON THIS SHEET AND LIGHTING CONTROL DIAGRAM ON E-601. SWITCHES SHALL SERVE AS LOCAL OFF SWITCH.
- 4 PROVIDE 4A CURRENT LIMITING DEVICE (CLD) #RCLF11WH-TCL4WH. ALL SALES/SEATING TRACK SHALL BE CIRCUITED VIA THIS CLD.
- 5 LED LIGHT STRIP: REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL LIGHTING INFORMATION.
- 6 PROVIDE 120V CONNECTION TO MOP SIGNAGE; CONTROL WITH ACCENT LIGHTS.
- 7 WALL MOUNTED OCCUPANCY SENSOR (LEVITON IPS02 1LW) SHALL CONTRL THE LIGHTS IN THIS ROOM. SET FOR 5 MINUTE TIME DELAY.
- 8 EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CIRCUITED TO LOCAL CIRCUIT AHEAD OF ANY CONTROLS.
- 9 LOCATION OF LIGHTING CONTROL PANEL (SEE CONTROL ZONE SCHEDULE THIS SHEET AND DETAILS ON E-502 AND E-601).
- 10 EXISTING EXTERIOR NORMAL AND EMERGENCY EGRESS LIGHTING TO REMAIN: MAINTAIN EXISTING CIRCUITING AND CONTROLS.

a - BACK ROOM/PREP AREA	\$ ^a	Ø ^b	\$ ^T
b - BACKBAR/PREP TRACK LIGHTS*			
c - WORK ROOM LIGHTS			
d - BACK OF HOUSE			
e - EXTERIOR RECEPTACLES	\$ ^c	\$ ^d	\$ ^e
T - 2 HR MAX TIMED OVERRIDE			

* PROVIDE COMPATIBLE DIMMER FOR SALES/SEATING
REVIEWED LIGHTING LAYOUT AND DIMMER DIMMER REQUIREMENTS
(WITH VENDOR) 11-09-23

Wayne T. ...
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A
LICENSE TO PROCEED WITH THE WORK AND NOT AS
AN ENDORSEMENT OF THE QUALITY OF THE WORK.
FOR MORE INFORMATION, CONTACT THE PERMIT
DIVISION OF THE CITY OF SANFORD.
2. LIGHTING SWITCH BANK DETAIL
THE BUILDING OFFICIAL FROM THEREAFTER
REQUIRING A CORRECTION OF ERRORS IN PLANS,
CONSTRUCTION OR VIOLATIONS OF THIS CODE.

SANFORD
DEPARTMENT

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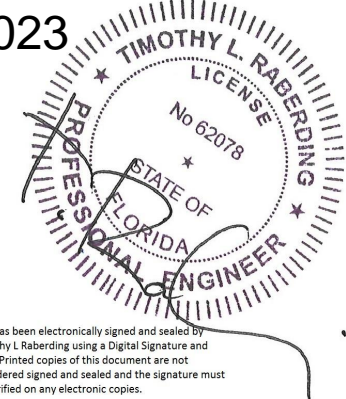
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Design Forum Architects Inc.

Design Forum Engineering

11/06/2023



PROJECT NAME:
US 17-92 & LAKE MARY
BLVD

PROJECT ADDRESS:
3764 ORLANDO DRIVE
SANFORD, FL 23773

STORE #:	81065
PROJECT #:	98504-001
ISSUE DATE:	08-03-2023
DESIGN MANAGER:	PAULINA LOPEZ
PRODUCTION DESIGNER:	ANDY MCLOUD
CHECKED BY:	DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:
LIGHTING DESIGN
PLAN

SHEET NUMBER:

E-102

DATA DEVICE SCHEDULE - "A"					
DESIGN ID	COUNT	DESCRIPTION	FURN. BY	INST. BY	COMMENTS
AUDIO VISUAL					
10005	1	MUSIC SYSTEM	SB	GC	
10010	1	DT ORDER MONITOR	SB	GC	
10012	1	DT COMMUNICATION SYSTEM	SB	GC	
10013	4	DT QUEUE CAMERA	SB	GC	
10015	3	SPEAKER RECESSED - WHITE	SB	GC	
12336	1	DT TIMER SYSTEM	SB	GC	
14676	1	DT POS MONITOR ARM DOUBLE SURFACE MOUNTED	SB	GC	
19339	1	AMPLIFIER - 40W	SB	GC	
DATA					
10000	1	PHONE 1 LINE	SB	GC	@ POS
10002	1	COMPUTER MANAGER WORKSTATION	SB	GC	
10007	1	PRINTER MANAGER WORKSTATION	SB	GC	
18744	1	EQUIPMENT RACK WITH LOCK - 24IN 610MM	SB	GC	
20294	4	IOT MODULE	SB	GC	
POINT OF SALE					
10008	2	POS - REGISTER WITH COMPACT CASH DRAWER	SB	GC	
10014	4	POS PRINTER	SB	GC	
10022	1	MONEY COUNTER	SB	GC	
10029	6	POS BANK	SB	GC	
10075	4	CUP LABELER	SB	GC	
14677	1	POS - DT TENDERING REGISTER	SB	GC	PART OF RETAIL IT EQUIPMENT PACKAGE
14678	1	POS - DT EXPEDITER	SB	GC	PART OF RETAIL IT EQUIPMENT PACKAGE
SECURITY					
10024	1	SAFE LH - 20X18X26IN 510X455X660MM	SB	GC	
10028	1	SAFE BASE	SB	GC	

RESPONSIBILITY LEGEND	
SB-GC	FURNISHED BY STARBUCKS - INSTALLED BY GENERAL CONTRACTOR
SB-SB	FURNISHED BY STARBUCKS - INSTALLED BY STARBUCKS
GC-GC	FURNISHED BY GENERAL CONTRACTOR - INSTALLED BY GENERAL CONTRACTOR
LL-LL	FURNISHED BY LANDLORD - INSTALLED BY LANDLORD
NOTE: ALL RESPONSIBILITIES TO BE CONFIRMED WITH STARBUCKS DESIGN MANAGER PRIOR TO ORDERING/CONSTRUCTION.	

SECURITY NOTES

- ENTRY CAMERA: CAPTURE ENTRY DOORWAY AND CUSTOMER TOP OF HEAD TO KNEES. PROVIDE (1) CAMERA AT EACH ENTRY.
- POS CAMERA: PRIMARY OBJECTIVE IS CUSTOMER; SECONDARY IS TRANSACTION PLANE. CAPTURE MULTIPLE POS LOCATIONS.
- SAFE CAMERA: POSITION TO VIEW FROM HANDLE SIDE OF DOOR. POS CAMERA CAN BE USED WHEN SAFE IS LOCATED BELOW TERMINALS.
- DRIVE THRU CAMERA: PRIMARY OBJECTIVE IS CUSTOMER; SECONDARY IS POS. IDEAL PLACEMENT WOULD CAPTURE BOTH.
- BOH CAMERA: CAPTURES CASH HANDLING.
- CARBON MONOXIDE: AT LEAST ONE CARBON MONOXIDE (CO) DETECTOR TO BE LOCATED IN THE BACK OF HOUSE. PROVIDE SECOND DETECTOR IN CAFE IF SPACE INCLUDES A FIREPLACE.

MUSIC SYSTEM NOTES

- GC SHALL INSTALL SPEAKERS AND WIRING PER DRAWING.
- SPEAKER PLACEMENT: LOCATE (1) PER 250 SF OF CAFE SPACE @ 14'-0" MIN TO 18'-0" MAC [4267-5486MM] O.C.
- SPEAKER PAINTING: SPEAKER GRILLS CAN BE PAINTED. NOTE: GRILL HOLES SHALL REMAIN OPEN.
- G.C. SHALL INSTALL MUSIC SYSTEM, CONNECT WIRING, AND TEST.

ELECTRICAL DESIGN PLAN NOTES

- FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK.
- DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED.
- REFER TO DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT AND PROVIDING BUCK-BOOST TRANSFORMERS AS MAY BE NEEDED FOR CODE. ALL ARE NOT NECESSARILY INDICATED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER.
- ALL FUTURE EQUIPMENT NEEDED HEREIN SHALL BE PROVIDED WITH AN APPROPRIATE RECEPTACLE AND FULLY WIRED, EVEN IF NOT SPECIFICALLY INDICATED.
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED WHERE REQUIRED BY CODE AND AT ANY FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS.
- EQUIPMENT REQUIRES CONNECTION TO THE BUILDING ELECTRICAL SYSTEM. FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, CONNECTIONS, RECEPTACLES AND OVERCURRENT PROTECTION NECESSARY TO ENSURE THE EQUIPMENT FUNCTIONED PROPERLY AND COMPLIES WITH ALL APPLICABLE LOCAL AND NATIONAL CODES. COORDINATE EQUIPMENT REQUIREMENTS WITH MANUFACTURER CUT SHEET PRIOR TO ROUGH-IN.
- ALL BACK BAR AND FRONT BAR J-BOXES AND OUTLETS SHALL BE SURFACE MOUNTED. PROVIDE CONDUITS AS NEEDED AND (1) ADDITIONAL SPARE CONDUIT BETWEEN ALL J-BOXES FOR FUTURE ELECTRICAL REQUIREMENTS. ALL J-BOXES SHALL BE POSITIONED TO AVOID OBSTRUCTION OF ANY EQUIPMENT SUCH AS REFRIGERATORS AND DISHWASHERS.
- STUB-UP POWER, DATA, AND PHONE CONDUITS 6" AFF IN THIS LOCATION. ROUTE POWER CONDUCTORS IN FLEXIBLE METAL CONDUIT TIGHT TO WALL FROM RECEPTACLES TO NEARBY RIGID STUB-UP AND BACK TO SERVING POWER PANEL. ROUTE DATA AND PHONE CONDUITS UNDER FLOOR BACK TO DATA RACK NEAR MANAGER'S WORKSTATION. LABEL DATA AND PHONE CONDUITS "FOR DATA CABLING". PROVIDE INSULATED BUSHINGS, AND PROVIDE PULL STRING FROM END TO END.
- COORDINATE ALL CONCRETE TRENCHING/CORE DRILLING TO ENSURE THAT ANY UNDER SLAB UTILITIES, ETC., ARE NOT DAMAGED DURING FLOOR CUT AND OR CORE DRILLING. PRIOR APPROVAL AND COORDINATION WITH PROPERTY MANAGEMENT IS REQUIRED FOR ALL CONCRETE WORK. EC SHALL PROVIDE PATCHING/REPAIR TO CONCRETE AND VAPOR BARRIER AS REQUIRED.

KEY NOTES

- SAFE: PROVIDE RECEPTACLE ON DEDICATED CIRCUIT. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR SECURITY ALARM JACK AND ROUTE CONDUIT BACK TO SECURITY PANEL J-BOX. REFER TO MANAGERS DESK DETAIL AND POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- POS: PROVIDE RECEPTACLE ON DEDICATED CIRCUIT. ADJACENT TO RECEPTACLE, PROVIDE J-BOXES FOR TELEPHONE AND DATA. ROUTE CONDUIT(S) BACK TO MANAGERS DESK. REFER TO MANAGERS DESK DETAIL AND POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- STUB UP POWER, DATA PHONE AND/OR SECURITY CONDUITS 6" AFF TO SERVE NEARBY DEVICES IN THIS LOCATION. ROUTE POWER CONDUCTORS IN FLEXIBLE METAL CONDUIT CONCEALED OR TIGHT-TO-WALL FROM RECEPTACLES TO NEARBY RIGID STUB UP AND BACK TO SERVING POWER PANEL. ROUTE DATA, PHONE AND SAFE CONDUITS UNDER FLOOR BACK TO DATA RACK NEAR MANAGER WORKSTATION. PROVIDE AN END-TO-END PULL STRING IN ALL DATA PHONE AND SAFE CONDUITS. LABEL EACH END OF PULL STRING WITH CONDUIT SYSTEM ("POS", "SECURITY", ETC.) AND DESTINATION ("DRIVE-THRU", "FRONT BAR", ETC.). PROVIDE INSULATED BUSHINGS ON ALL STUBBED-UP AND EXPOSED CONDUIT ENDS. REFER TO ARCHITECTURAL PENETRATION PLAN FOR ADDITIONAL INFORMATION.
- CUP LABELER AND/OR MOBILE ORDER PRINTER: PROVIDE RECEPTACLE AND ADJACENT DATA BACKBOX AT SAME MOUNTING HEIGHT - COORDINATE LOCATION AND MOUNTING HEIGHT WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGERS WORKSTATION.
- DT POS AND EXPEDITER TILL MONITOR: PROVIDE DOUBLE DUPLEX RECEPTACLE ON DEDICATED CIRCUIT. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR DATA. ROUTE CONDUIT BACK TO MANAGER'S DESK. REFER TO MANAGER'S DESK DETAIL AND DRIVE-THRU POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- DT EXPEDITER MONITOR: PROVIDE DOUBLE DUPLEX RECEPTACLE. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR DATA. ROUTE CONDUIT BACK TO MANAGER'S DESK. REFER TO MANAGER'S DESK DETAIL AND DRIVE-THRU POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- DT TIMER CONTROL UNIT AND MONITOR: PROVIDE DOUBLE DUPLEX RECEPTACLE. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR DATA. ROUTE CONDUIT BACK TO MANAGER'S DESK. REFER TO MANAGER'S DESK DETAIL AND DRIVE-THRU POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- DT TIMER SIGNAL PROCESSOR: PROVIDE DUPLEX RECEPTACLE. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR DATA. ROUTE CONDUIT BACK TO MANAGER'S DESK. REFER TO MANAGER'S DESK DETAIL AND DRIVE-THRU POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- WIRELESS HEADSET BASE STATION: PROVIDE DUPLEX RECEPTACLE. ADJACENT TO RECEPTACLE, PROVIDE J-BOX FOR DATA. ROUTE CONDUIT BACK TO MANAGER'S DESK. REFER TO MANAGER'S DESK DETAIL AND DRIVE-THRU POS DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- TELEPHONE AND DATA OUTLETS FOR MANAGER'S DESK: REFER TO MANAGER'S DESK DETAIL ON E-501 FOR ADDITIONAL INFORMATION.
- CARBON MONOXIDE DETECTOR AND THERMOSTATS FOR ROOF TOP HVAC UNITS: COORDINATE INSTALLATION AND CONNECTION WITH MECHANICAL CONTRACTOR. COORDINATE LOCATION(S) WITH OWNER'S REPRESENTATIVE. VERIFY LOCATIONS/CONNECTIONS PRIOR TO INSTALLATION.
- DATA OUTLET FOR FUTURE USE: PROVIDE BACKBOX MOUNTED AT 26" AFF. ROUTE 3/4" CONDUIT FROM BACKBOX TO DATA RACK NEAR MANAGER'S WORK STATION. LABEL CONDUIT FOR DATA CABLING AND PROVIDE PULL STRING FROM END TO END.
- NOT USED
- SECURITY CAMERA: CEILING MOUNT TYPICAL; IN OPEN CEILING CONDITION, LOCATE 6 O. CAMERA AT SAME HEIGHT AS STORE LIGHTING.
- DRIVE THRU CAMERA: LOCATE 6'-0" TO 8'-0" [1825-2440MM] FROM WINDOW WITH CLEAR VIEW OF CUSTOMER AND DT POS.
- RECESSED SPEAKER. COLOR: WHITE.
- AMPLIFIER: LOCATE ON SHELVING ABOVE MANAGER'S WORKSTATION (SEE DETAIL ON E-501).

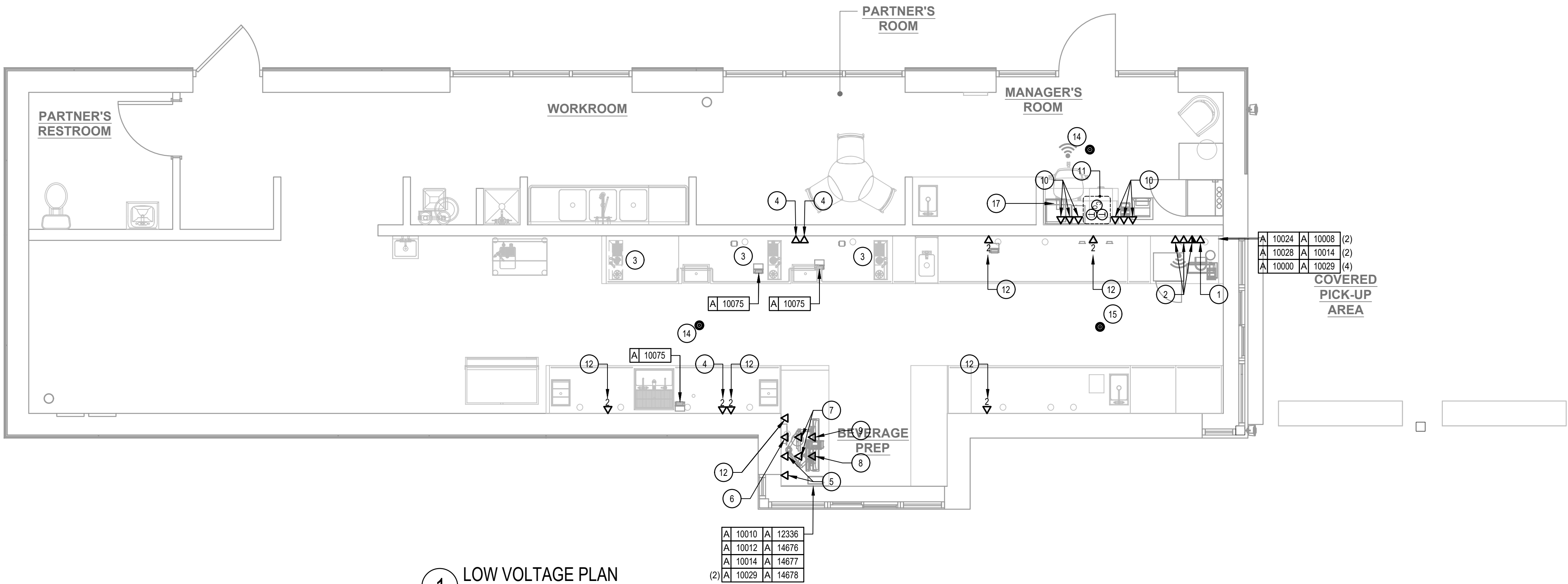
ELECTRICAL SYMBOLS LEGEND

- | | |
|---------------------------|-------------------|
| ▼ TELEPHONE | ● SECURITY CAMERA |
| ▽ DATA | ⊙ SPEAKER |
| ⊙ THERMOSTAT | ⊙ JUNCTION BOX |
| ⊙ CARBON MONOXIDE MONITOR | |

REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK AND NOT AS AUTHORITY TO VIOLATE, CANCEL, ALTER OR SET ASIDE ANY OF THE PROVISIONS OF THE TECHNICAL CODES. NOR SHALL ISSUANCE OF A PERMIT PREVENT THE BUILDING OFFICIAL FROM THEREAFTER REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.

BUILDING
SANFORD
DEPARTMENT

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1 LOW VOLTAGE PLAN
SCALE: 1/4" = 1'-0"



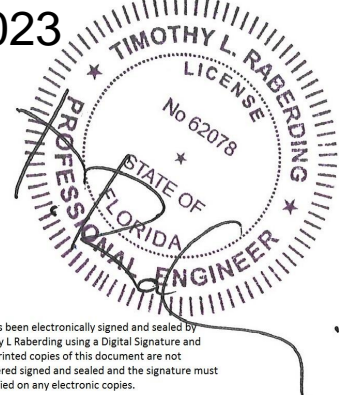
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Timothy L. Raberding, PE
Professional Engineer

11/06/2023



PROJECT NAME:
US 17-92 & LAKE MARY BLVD

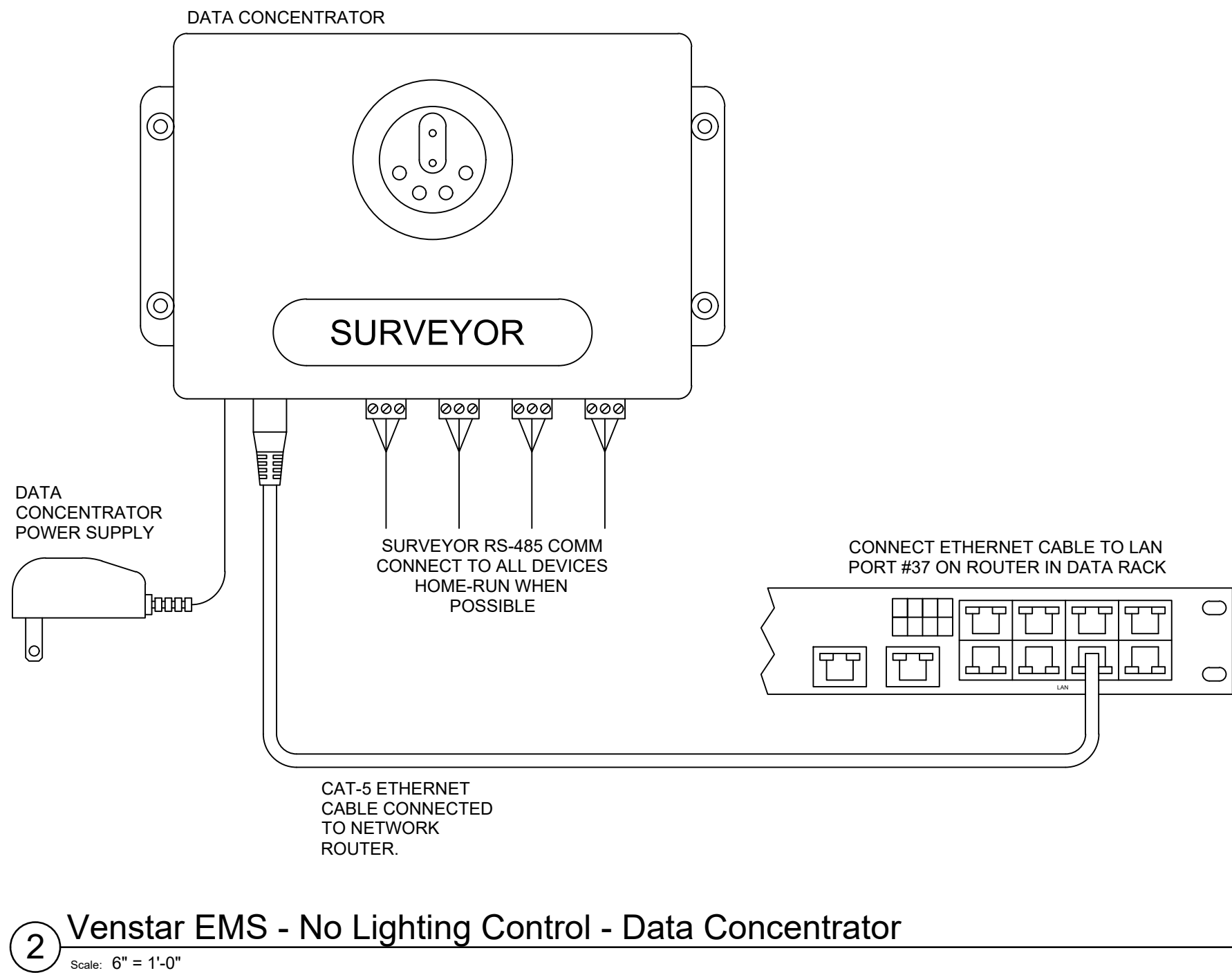
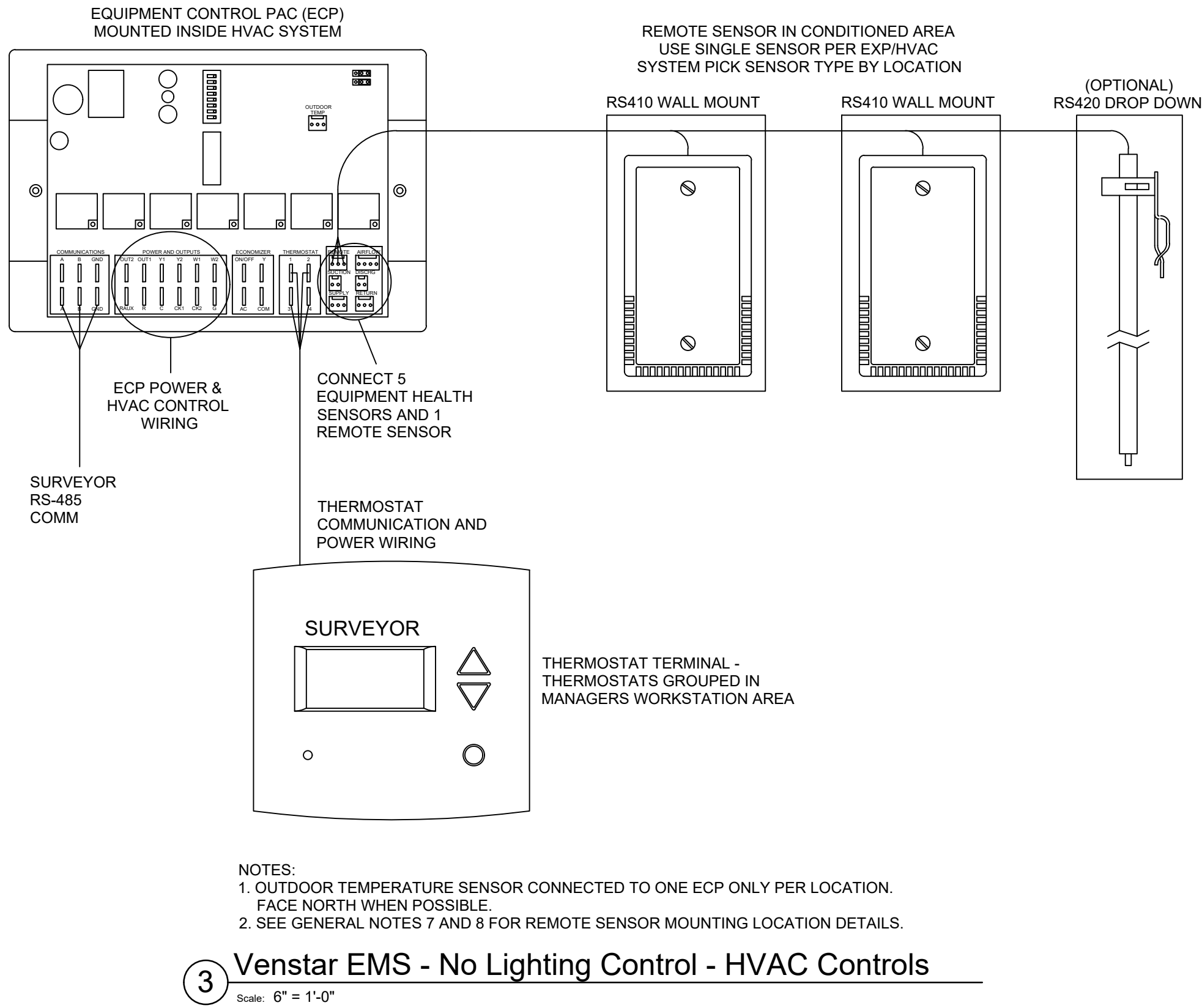
PROJECT ADDRESS:
**3764 ORLANDO DRIVE
SANFORD, FL 23773**

STORE #: 81065
PROJECT #: 98504-001
ISSUE DATE: 08-03-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:
LOW VOLTAGE DESIGN PLAN
SCALE: AS INDICATED

SHEET NUMBER:
E-103

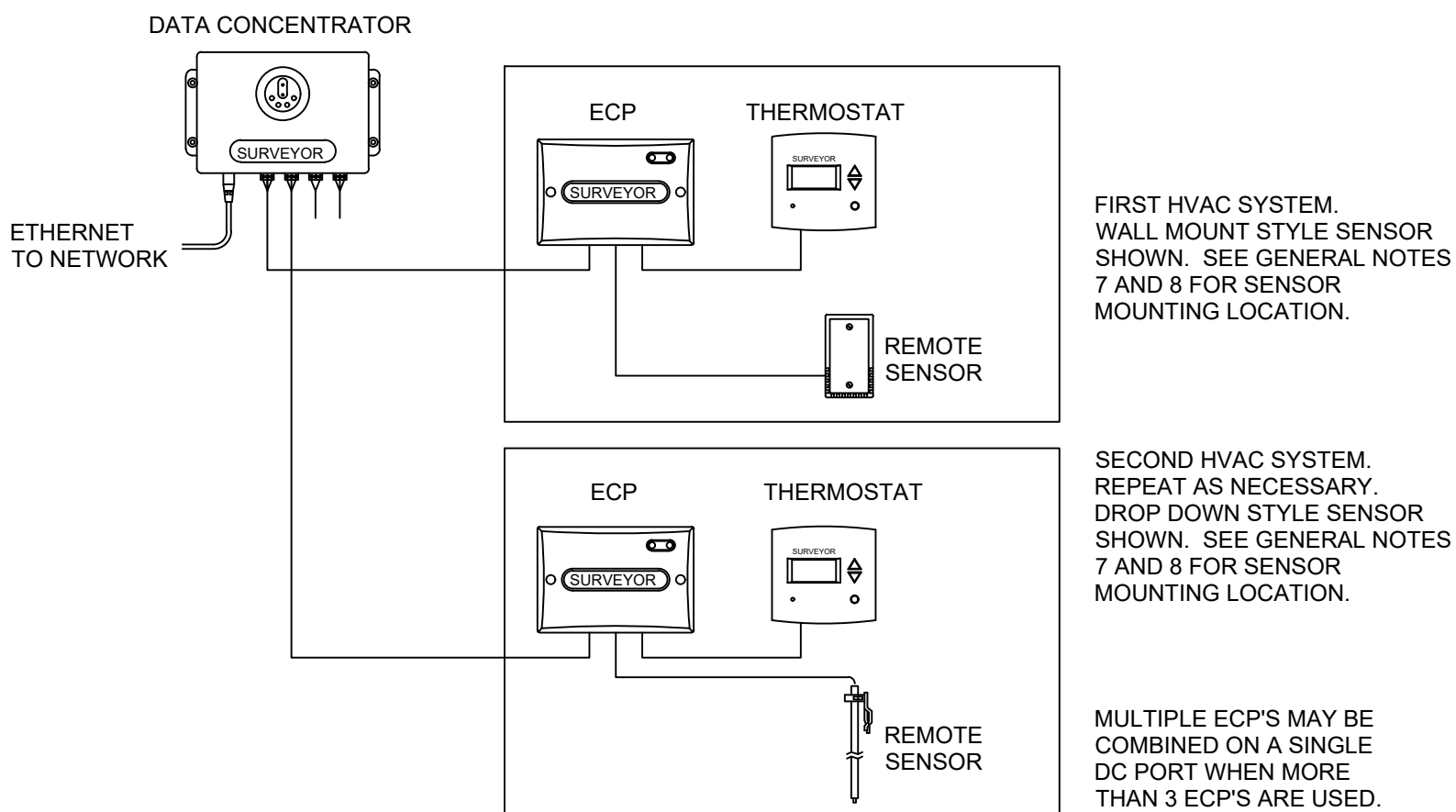


GENERAL NOTES

1. SURVEYOR ENERGY MANAGEMENT SYSTEM HARDWARE IS SUPPLIED BY STARBUCKS.
2. DRAWING FOR GENERAL INFORMATION, DESIGN INTENT, AND COORDINATION ONLY.
3. LOCAL BUILDING CODES TAKE PRECEDENCE OVER THIS DOCUMENT.
4. NOT ALL WIRING IS SHOWN ON THIS DRAWING. FOR CLARITY, ONLY ONE EXAMPLE OF EACH TYPE OF DEVICE IS SHOWN.
5. REFER TO THE SURVEYOR INSTALLATION INSTRUCTIONS FOR EACH COMPONENT FOR DETAILED WIRING AND ADDITIONAL CRITICAL INFORMATION.
6. CAUTION! INSTALLATION REQUIRES THE REMOVAL OF SAFETY COVERS AND EXPOSE THE INSTALLER TO HIGH VOLTAGE AND ELECTRICAL HAZARDS. USE OF A LICENSED ELECTRICIAN IS REQUIRED. FOLLOW ALL APPROPRIATE SAFETY PRECAUTIONS. ADDITIONAL SAFETY INFORMATION IS IN THE SURVEYOR INSTALLATION MANUALS.
7. WALL MOUNTED REMOTE SENSOR IS MOUNTED ON WALL 4 TO 5 FT AFF. AVOID AREAS WITH DIRECT AIRFLOW FROM SUPPLY REGISTERS.
8. USE A DROP DOWN SENSOR IF A WALL MOUNT SENSOR CANNOT BE INSTALLED DUE TO SPACE CONSTRAINTS (SEE NOTE 7 FOR REQUIREMENTS). THE SENSOR CLIPS TO THE T-BAR GRID AND ADJUSTED SO THE BOTTOM OF THE SENSOR IS 8 TO 9 FT AFF. ALLOW 2 FT OF CLEARANCE FROM METRO SHELVING AND AVOID AREAS WITH DIRECT AIRFLOW FROM SUPPLY REGISTERS.
9. FOR SURVEYOR EMS TECHNICAL SUPPORT AND SYSTEM COMMISSIONING, CONTACT SURVEYOR TECHNICAL SUPPORT, (855) 647-7660, OPTION 1 OR EMAIL INSTALLSUPPORT@VENSTAR.COM. HOURS 6:00 AM TO 8:00 PM PACIFIC, MON-FRI.

SURVEYOR EMS COMPONENTS			
VENSTAR PART	SBUX ITEM #	DESCRIPTION	QUANTITY
DC400	011029485	DATA CONCENTRATOR	1
OTS400	011029487	OUTDOOR TEMPERATURE SENSOR	1
ECP400	011029489	EQUIPMENT CONTROL PAC	1 PER HVAC
CT414	011029490	COMMUNICATING THERMOSTAT	1 PER HVAC
SP400	011029491	SENSOR PAC	1 PER HVAC
RS410	011029492	WALL MOUNT REMOTE SENSOR	1 PER FOH HVAC
OPTIONAL → RS420	011050767	NARROW DROP DOWN SENSOR	1 PER BOH HVAC

OPTIONAL →



REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
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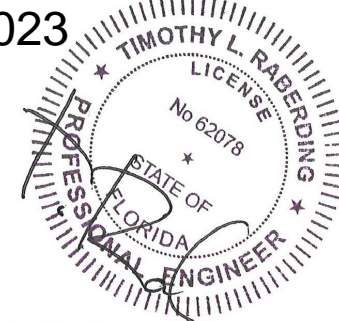
Donald J. Reithman
Architect in Charge

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Timothy L. Raberding, PE
Professional Engineer

11/06/2023



This has been electronically signed and sealed.
Timothy L. Raberding using a Digital Signature and
date. Printed copies of this document are not
considered signed and sealed and the signature must
be verified using electronic copies.

PROJECT NAME:
**US 17-92 & LAKE MARY
BLVD**

PROJECT ADDRESS:
**3764 ORLANDO DRIVE
SANFORD, FL 23773**

STORE #: 81065
PROJECT #: 98504-001
ISSUE DATE: 08-03-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:
**ELECTRICAL DETAILS -
ENERGY MANAGEMENT SYSTEM**
SCALE: AS INDICATED

SHEET NUMBER:
E-502

FOR CONSTRUCTION

B												
ROOM MOUNTING RECESSED FED FROM A		VOLTS 208Y/120V 3P 4W BUS AMPS 225 NEUTRAL 100%					AIC MAIN BKR LUGS		SERIES RATED MLO STANDARD			
CKT #	CIRCUIT DESCRIPTION	KVA LOAD			CKT BKR	CKT BKR	KVA LOAD			CIRCUIT DESCRIPTION	CKT #	
		A	B	C			A	B	C			
1	* ESPRESSO	3.25			30/2	20/1	0.96			* U.C. REFRIGERATOR	2	
3			3.25			20/1		1.48		* INSTA-HOT, PREP TABLE	4	
5	* LEFT ESPRESSO			3.25	40/2	20/1			1.56	* BLENDER, * CUP LABELER	6	
7		3.25				20/1	0			SPARE	8	
9	* RIGHT ESPRESSO		3.25		40/2	20/1		0		SPARE	10	
11				3.25		20/1			0.48	* U.C. REFRIGERATOR	12	
13	*RIGHT TURBOCHEF	3			30/2	20/1	0.96			* U.C. REFRIGERATOR	14	
15			3			40/2		3.9		* SANITIZER	16	
17	* CUP LABELER			0.4	20/1				3.9		18	
19	* FUTURE EQUIPMENT	0.18			20/1	20/1	0.48			* U.C. REFRIGERATOR	20	
21	*RIGHT TURBOCHEF		3		30/2	20/1		0.72		* SCALE/GRINDER	22	
23				3		20/1			0.09	* SERVER STAND	24	
25	* DUAL BREWER	4.17			50/2	20/1	0.72			* MANAGER'S DESK - PC, PRINTER	26	
27			4.17			20/1		0.36		* CONVENIENCE RECEIPT	28	
29	* DT POS - DED. REC			0.36	20/1	20/1			0.36	* EXTERIOR RECEIPT	30	
31	* DT POS REC - FUTURE	0.36			20/1	20/1	0			SPARE	32	
33	* U.C. REFRIGERATOR, FUTURE		0.98		20/1	20/1		0.36		* RCP, WATER FILTER	34	
35	* DT COMMUNICATIONS			0.72	20/1	20/1			0	SPARE	36	
37	* DT TIMER	0.72			20/1	20/1	0.18			* PARTNER WORKSTATION	38	
39	* LEFT POS - DED. REC		0.18		20/1	20/1		0		SPARE	40	
41	* RIGHT POS - DED. REC			0.18	20/1	20/1			1.08	* DOUBLE DOOR REFRIGERATOR	42	
43	* POS REC - MISC EQUIPMENT	0.36			20/1	20/1	1.3			* DOUBLE DOOR FREEZER	44	
45	* BLENDER		1.2		20/1	20/1		0		SPARE	46	
47	* U.C. REFRIGERATOR			0.48	20/1	20/1			1.3	* DOUBLE DOOR FREEZER	48	
49	* REMOTE CONDENSOR	0.144			20/2	50/3	4.5			* WH	50	
51			0.144					4.5			52	
53	* NITRO GENERATOR			0.72	20/1				4.5		54	
55	* ICE MACHINE	1.8			20/2	30/2	0			* FUTURE EQUIPMENT	56	
57			1.8					0			58	
59	* FUTURE EQUIPMENT			0.36	20/1	20/1			1.08	* DOUBLE DOOR REFRIGERATOR	60	
61	* SINK	0.18			20/1	20/1	0.48			* U.C. REFRIGERATOR	62	
63	* CUP LABELER		0.2		20/1	20/1		0		SPARE	64	
65	* U.C. REF			0.48	20/1	20/1			0	SPARE	66	
							27	32.5	27.6	TOTAL CONNECTED KVA		
							229	271	232	TOTAL CONNECTED AMPS		
LOAD TYPE		CONN. KVA	DEMAND KVA		LOAD TYPE		CONN. KVA	DEMAND KVA				
LIGHTING		0	0	(125%)	CONTINUOUS		0	0	(125%)			
LARGEST MOTOR		13.5	16.9	(125%)	HEATING		0	0	(100%)			
OTHER MOTORS		0	0	(100%)	NONCONTINUOUS		0	0	(100%)			
RECEPTACLES		8.52	8.52	(50%>10)	KITCHEN EQUIP		64.7	42.1	(65%)			
					NONCOIN/DIVERSE		0	0	(N/A)			
					TOTAL KVA:		87	67.8				
					TOTAL BALANCED DEMAND AMPS:		188					
NOTES:												
* - PROVIDE GFCI PROTECTION (SEE NOTE)												
** - CIRCUIT CONTROLLED VIA CONTACTOR / *** - EXISTING CIRCUIT TO REMAIN												

THIS SHALL BE A SERIES-RATED SYSTEM BETWEEN THE MAIN CIRCUIT BREAKER AND THE BRANCH BREAKERS WITHIN THE PANELS TO ALLOW FOR 10 KAIC RATED BREAKERS TO BE UTILIZED.

NOTE: PANELS ARE BY LL.
CONTRACTOR SHALL PROVIDE ALL
BREAKERS AS SHOWN ON THESE
SCHEDULES!

GROUND FAULT PROTECTION NOTES:

PROVIDE GFCI PROTECTION AS REQUIRED BY NEC 210.8.

CIRCUITS REQUIRING GFCI PROTECTION IDENTIFIED WITH * ON PANEL SCHEDULES.

ABOVE-COUNTER RECEPTACLES THAT ARE READILY ACCESSIBLE AND WITHIN REACH OF PARTNERS SHALL BE GFCI TYPE.

BELOW-COUNTER RECEPTACLES, OR RECEPTACLES THAT ARE DIFFICULT TO REACH OR REQUIRE MOVING EQUIPMENT TO RESET, AND ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI CIRCUIT BREAKERS.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, CONTACT CIRCUIT BREAKER MANUFACTURER AND PROVIDE GFCI TYPE CIRCUIT BREAKER THAT SERIES RATES WITH PANEL OVER CURRENT PROTECTION IF AVAILABLE.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, AND GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE DEAD-FRONT GFCIS (IN A READILY ACCESSIBLE LOCATION) TO SERVE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE.

CLOSE-OUT NOTES:

- A. WITHIN 30 DAYS OF DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- B. UPON COMPLETION OF PROJECT, PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER. THE MANUALS SHALL CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- C. PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE TO THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.

PROVIDE ARC-FLASH HAZARD
WARNINGS TO METER
ENCLOSURES, PANELBOARDS,
DISCONNECTING MEANS, ETC PER
NEC 110.16 AND 110.21(B)

A												
ROOM MOUNTING RECESSED FED FROM		VOLTS 208Y/120V 3P 4W BUS AMPS 600 NEUTRAL 100%					AIC MAIN BKR LUGS		EXISTING MLO FEEDTHRU			
CKT #	CIRCUIT DESCRIPTION	KVA LOAD			CKT BKR	CKT BKR	KVA LOAD			CIRCUIT DESCRIPTION	CKT #	
		A	B	C			A	B	C			
1	***RTU-1 (EXIST)	7.68			90/3	20/1	0			SPARE	2	
3			7.68			20/1		0		SPARE	4	
5				7.68		20/1			0	SPARE	6	
7	SPARE	0			20/1	20/1	0			SPARE	8	
9	SPARE		0		20/1	20/1		0		SPARE	10	
11	SPARE			0	20/1	20/1			0.12	EMERG/EXIT LIGHTING	12	
13	SPARE	0			20/1	20/1	0			SPARE	14	
15	SPARE		0		20/1	20/1		0.25		LIGHTING CONTROLS	16	
17	SPARE			0		20/1			1.9	HAND DRYER	18	
19	SPARE	0			20/1	20/1	0.26			** DRIVE-THRU SIGN	20	
21	SPARE		0		20/1	20/1		0.497		**BACK BAR/PREP AREA LIGHTING	22	
23	SPARE			0	20/1	20/1			0.365	**BOH & RESTROOM LIGHTING	24	
25	SPARE	0			20/1	20/1	0.96			** WORDMARK SIGN	26	
27	SPARE		0		20/1	20/1		0.26		** DRIVE-THRU SIGN	28	
29	SPARE			0	20/1	20/1			0.96	** WORDMARK SIGN	30	
31	SPARE	0			20/1	20/1	0.26			** LOGO SIGN	32	
33	SPARE		0		20/1	225/3		27		PANEL B	34	
35	SPARE			0	30/1				32.5		36	
37	SPARE	0			20/1		27.6				38	
39	** UPLIGHT		0.2		20/1	30/2		0.35		IRRIGATION PUMP (EXIST)	40	
41	** DT DIGITAL ORDER SCREEN			0.26	20/1				0.35		42	
43	***TIME CLOCK POWER	0.4			20/1	20/1	0.445			***SITE LIGHTING	44	
45	***DRIVE-THRU SIGN, MONUMENT SIGN		1.52		20/1	20/1		0.534		***SITE LIGHTING	46	
47	SPARE			0	20/1	20/1			0.72	***PATIO REC	48	
49	***DT MENU BOARD	0.52			20/1	20/1	0.5			***DRIVE THRU DSC/DCB #1	50	
51	***DRIVE THRU CANOPY		0.4		20/1	20/1		0		SPARE	52	
53	***EXTERIOR BUILDING LIGHT			0.8	20/1	20/1		0		SPARE	54	
55	***DRIVE THRU WINDOW	0.5			20/1	20/1	0			SPARE	56	
57	***DRIVE THRU WINDOW		0.5		20/1	20/1		0		SPARE	58	
59	*** EF-1			0.468	20/1	20/1		0		SPARE	60	
61	DUCT SMOKE DETECT	0.4			20/1	20/3	0			SURGE SUPPRESSOR	62	
63	***RTU SERVICE RECEIPTS (EXIST)		0.36		20/1			0			64	
65	***DRIVE THRU DSC/DCB #2			0.5	20/1				0		66	
							39.5	39.5	46.6	TOTAL CONNECTED KVA		
							330	332	388	TOTAL CONNECTED AMPS		
LOAD TYPE		CONN. KVA		DEMAND KVA		LOAD TYPE		CONN. KVA		DEMAND KVA		
LIGHTING		8.1		10.1 (125%)		CONTINUOUS		0.65		0.813 (125%)		
LARGEST MOTOR		23		5.76 (125%)		HEATING		0		0 (100%)		
OTHER MOTORS		16.1		16.1 (100%)		NONCONTINUOUS		2.16		2.16 (100%)		
RECEPTACLES		10.6		10.3 (50%>10)		KITCHEN EQUIP		64.7		42.1 (65%)		
						NONCOIN/DIVERSE		0		0 (N/A)		
						TOTAL KVA:		126		111		
						TOTAL BALANCED DEMAND AMPS:		307				
NOTES:												
* - PROVIDE GFCI PROTECTION (SEE NOTE)												
** - CIRCUIT CONTROLLED VIA CONTACTOR / *** - EXISTING CIRCUIT TO REMAIN												

INSTALL LOCK OFF PROVISIONS
FOR CIRCUIT BREAKERS SERVING
HAND DRYERS PER NEC 422.31(B)

GROUND FAULT PROTECTION NOTES:

PROVIDE GFCI PROTECTION AS REQUIRED BY NEC 210.8.

CIRCUITS REQUIRING GFCI PROTECTION IDENTIFIED WITH * ON PANEL SCHEDULES.

ABOVE-COUNTER RECEPTACLES THAT ARE READILY ACCESSIBLE AND WITHIN REACH OF PARTNERS SHALL BE GFCI TYPE.

BELOW-COUNTER RECEPTACLES, OR RECEPTACLES THAT ARE DIFFICULT TO REACH OR REQUIRE MOVING EQUIPMENT TO RESET, AND ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI CIRCUIT BREAKERS.

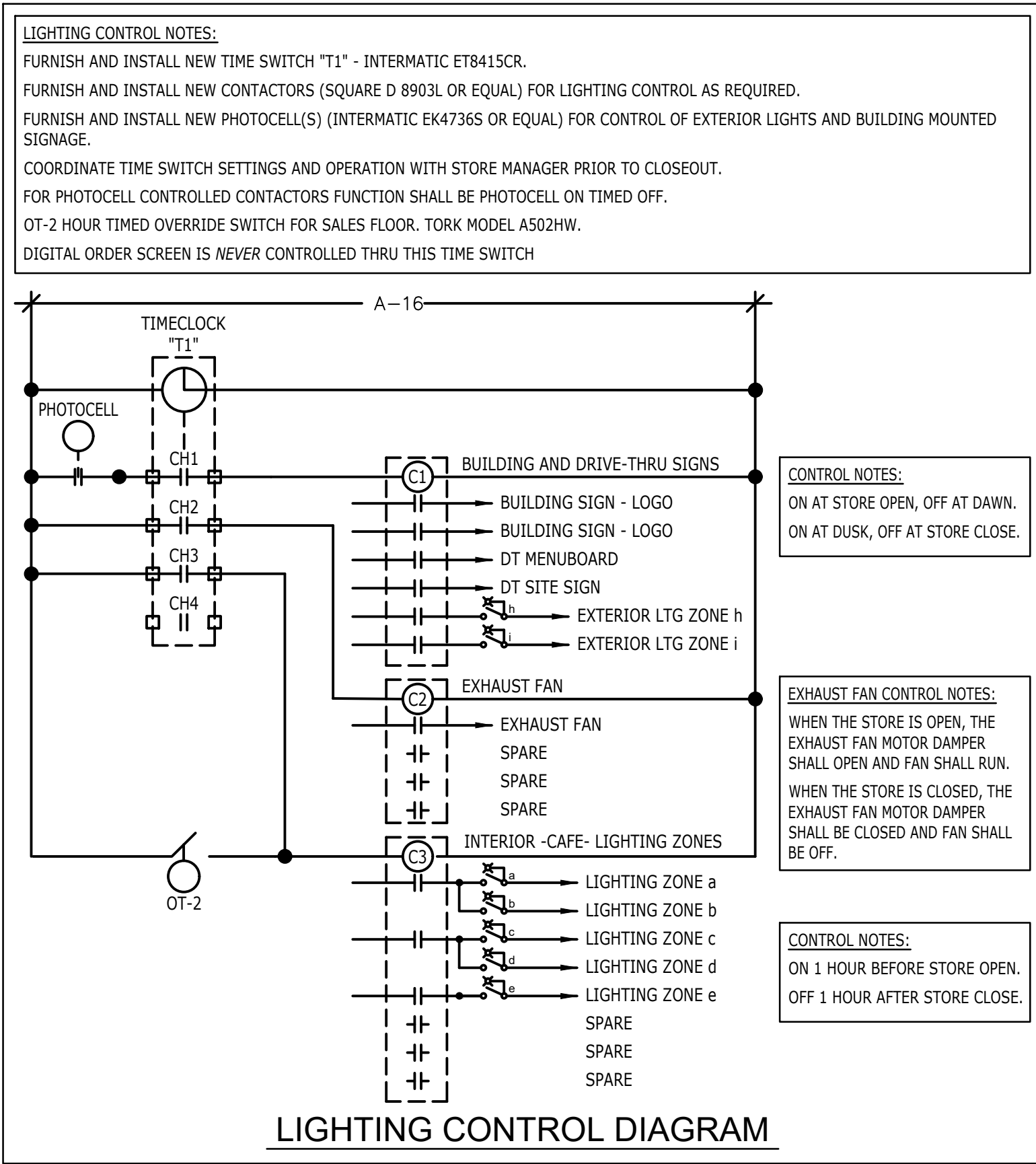
WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, CONTACT CIRCUIT BREAKER MANUFACTURER AND PROVIDE GFCI TYPE CIRCUIT BREAKER THAT SERIES RATES WITH PANEL OVER CURRENT PROTECTION IF AVAILABLE.

WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS 22,000 AMPS AT THE PANELBOARD, AND GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE DEAD-FRONT GFCIS (IN A READILY ACCESSIBLE LOCATION) TO SERVE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE.

CLOSE-OUT NOTES:

- A. WITHIN 30 DAYS OF DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- B. UPON COMPLETION OF PROJECT, PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER. THE MANUALS SHALL CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- C. PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE TO THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.

NOTE: PANELS ARE BY LL.
CONTRACTOR SHALL PROVIDE ALL
BREAKERS AS SHOWN ON THESE
SCHEDULES!



MINIMUM WIRE & CONDUIT SIZES FOR CIRCUIT BREAKERS AND FUSES			
AMPS	FEEDER SIZE	GROUND	CONDUIT
15	#12	#12	3/4"
20	#12	#12	3/4"
25	#10	#10	3/4"
30	#10	#10	3/4"
35	#8	#10	3/4"
40	#8	#10	3/4"
45	#8	#10	3/4"
50	#8	#10	3/4"
60	#6	#10	3/4"
70	#4	#8	1"
80	#4	#8	1"
90	#3	#8	1-1/4"
100	#3	#8	1-1/4"
PROVIDE THE FOLLOWING QUANTITIES:			
1 POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND		3 POLE CIRCUIT - 3 HOT, 1 GROUND	
2 POLE CIRCUIT - 2 HOT, 1 GROUND		1 POLE IG CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND, 1 ISOLATED GROUND.	

REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
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VOLTAGE DROP CALCULATIONS										
						POWER FACTOR (%):		90		
VOLTAGE:			208					CONDUIT MATERIAL:		P
PHASE:			3		MATERIALS:					S=STEEL, P=PVC, A=ALUMINUM
SECTION			WIRE		IMPED.	LOAD(Amps)	VOLTAGE DROP			
							IN SECT.	IN SECT.		
FROM	TO	LENGTH	SIZE	NO./Ø	Ohms/kFt	@POINT	Volts	%		
Service Disc.	Panel A	100	350	4	0.052	307	0.69	0.33		
Panel A	Panel B	100	4/0	4	0.074	188	0.60	0.29		
Panel A	RTU-1	100	3	4	0.245	90	0.96	0.46		
Panel A	Water Heater	50	8	4	0.725	46	0.72	0.35		

VOLTAGE DROP CALCULATIONS										
						POWER FACTOR (%):		90		
VOLTAGE:				208				CONDUIT MATERIAL:		P
PHASE:				1		MATERIALS: S=STEEL, P=PVC, A=ALUMINUM				
SECTION				WIRE		IMPED.	LOAD(Amps)	VOLTAGE DROP		
								IN SECT.	IN SECT.	
FROM	TO	LENGTH	SIZE	NO./Ø	Ohms/kFt	@POINT		Volts	%	
Panel B	B-1,3	100	8	2	0.725	32		2.32	1.11	
Panel B	B-5,7	100	8	2	0.725	32		2.32	1.11	
Panel B	B-9,11	100	8	2	0.725	32		2.32	1.11	
Panel B	B-13,15	100	10	2	1.102	29		3.20	1.54	
Panel B	B-21,23	100	10	2	1.102	29		3.20	1.54	
Panel B	B-25,27	100	8	2	0.725	40		2.90	1.39	
Panel B	B-49,51	100	12	2	1.824	2		0.36	0.18	
Panel B	B-55,57	100	12	2	1.824	17		3.10	1.49	
Panel B	B-16,18	100	8	2	0.725	38		2.75	1.32	
Panel A	A-40,42	75	12	2	1.824	4		0.55	0.26	

VOLTAGE DROP CALCULATIONS									
VOLTAGE: 120 PHASE: 1					POWER FACTOR (%):		90		
					CONDUIT MATERIAL: P				
					MATERIALS: S=STEEL, P=PVC, A=ALUMINUM		VOLTAGE DROP		
SECTION			WIRE		IMPED. Ohms·kft	LOAD(Amps) @POINT	VOLTAGE DROP		
FROM	TO	LENGTH	SIZE	NO.Ø			IN SECT. Volts	IN SECT. %	
Panel A	A-39	200	10	2	1.102	2.2	0.48	0.40	
	A-41	200	10	2	1.102	2.2	0.48	0.40	
	A-43	15	12	2	1.824	4	0.11	0.09	
	A-45	200	10	2	1.102	13	2.86	2.39	
	A-49	200	10	2	1.102	5	1.10	0.92	
	A-51	200	10	2	1.102	4	0.88	0.73	
	A-53	200	10	2	1.102	7	1.54	1.29	
	A-55	75	12	2	1.824	5	0.68	0.57	
	A-57	75	12	2	1.824	5	0.68	0.57	
	A-59	75	12	2	1.824	4	0.55	0.46	
	A-61	100	10	2	1.102	4	0.44	0.37	
	A-63	100	10	2	1.102	3	0.33	0.28	
	A-65	200	10	2	1.102	4	0.88	0.73	
	A-12	75	12	2	1.824	1	0.14	0.11	
	A-16	15	12	2	1.824	2	0.05	0.05	
	A-18	75	12	2	1.824	16	2.19	1.82	
	A-20	75	10	2	1.102	2	0.17	0.14	
	A-22	100	10	2	1.102	5	0.55	0.46	
	A-24	100	10	2	1.102	3	0.33	0.28	
	A-26	100	10	2	1.102	8	0.88	0.73	
	A-28	100	10	2	1.102	3	0.33	0.28	
	A-30	100	10	2	1.102	8	0.88	0.73	
	A-32	100	10	2	1.102	3	0.33	0.28	
	A-44	200	10	2	1.102	4	0.88	0.73	
	A-46	200	10	2	1.102	5	1.10	0.92	
	A-48	200	10	2	1.102	6	1.32	1.10	
	A-50	200	10	2	1.102	4	0.88	0.73	
Panel B	B-17	75	12	2	1.824	3.5	0.48	0.40	
	B-29	75	12	2	1.824	3	0.41	0.34	
	B-31	75	12	2	1.824	3	0.41	0.34	
	B-33	75	12	2	1.824	8.2	1.12	0.93	
	B-35	75	12	2	1.824	6	0.82	0.68	
	B-37	75	12	2	1.824	6	0.82	0.68	
	B-39	75	12	2	1.824	1.5	0.21	0.17	
	B-41	75	12	2	1.824	1.5	0.21	0.17	
	B-43	75	12	2	1.824	3	0.41	0.34	
	B-45	75	12	2	1.824	10	1.37	1.14	
	B-47	75	12	2	1.824	4	0.55	0.46	
	B-53	75	12	2	1.824	6	0.82	0.68	
	B-59	75	12	2	1.824	3	0.41	0.34	
	B-61	75	12	2	1.824	1.5	0.21	0.17	
	B-63	75	12	2	1.824	1.5	0.21	0.17	
	B-65	75	12	2	1.824	4	0.55	0.46	
	B-2	75	12	2	1.824	8	1.09	0.91	
	B-4	75	12	2	1.824	12.3	1.68	1.40	
	B-6	75	12	2	1.824	13	1.78	1.48	
	B-12	75	12	2	1.824	4	0.55	0.46	
	B-14	75	12	2	1.824	8	1.09	0.91	
	B-20	75	12	2	1.824	4	0.55	0.46	
	B-22	75	12	2	1.824	6	0.82	0.68	
	B-24	75	12	2	1.824	0.75	0.10	0.09	
	B-26	40	12	2	1.824	6	0.44	0.36	
	B-28	75	12	2	1.824	3	0.41	0.34	
	B-30	100	10	2	1.102	3	0.33	0.28	
	B-34	40	12	2	1.824	3	0.22	0.18	
	B-38	40	12	2	1.824	1.5	0.11	0.09	
	B-42	40	12	2	1.824	9	0.66	0.55	
	B-44	40	12	2	1.824	11	0.80	0.67	
	B-48	40	12	2	1.824	11	0.80	0.67	
	B-60	40	12	2	1.824	9	0.66	0.55	
	B-62	75	12	2	1.824	4	0.55	0.46	


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Wayne Thorne - PX3005
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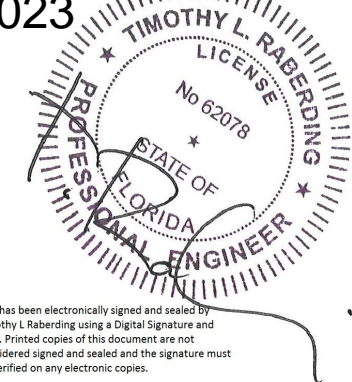
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Timothy L. Raberding, PE
Professional Engineer

11/06/2023



This has been electronically signed and sealed.
Timothy L. Raberding using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PROJECT NAME:
US 17-92 & LAKE MARY BLVD

PROJECT ADDRESS:
**3764 ORLANDO DRIVE
SANFORD, FL 23773**

STORE #: 81065
PROJECT #: 98504-001
ISSUE DATE: 08-03-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description
1	9/15/2023	Revision 1

SHEET TITLE:
VOLTAGE DROP CALCULATIONS
SCALE: AS INDICATED

SHEET NUMBER:
E-602



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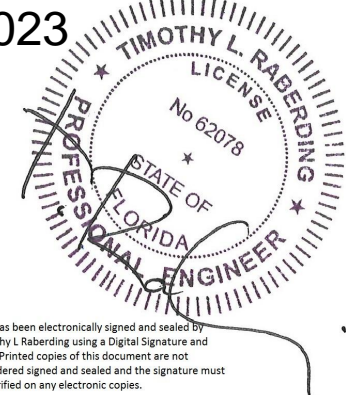
Donald J. Reihman
Architect in Charge

Design Forum Engineering

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Timothy L. Raberding, PE
Professional Engineer

11/06/2023



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Timothy L. Raberding using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PROJECT NAME:
**US 17-92 & LAKE MARY
BLVD**

PROJECT ADDRESS:
**3764 ORLANDO DRIVE
SANFORD, FL 23773**

STORE #: XXXXX
PROJECT #: 98504-001
ISSUE DATE: 03-14-2023
DESIGN MANAGER: PAULINA LOPEZ
PRODUCTION DESIGNER: ANDY MCLOUD
CHECKED BY: DONALD RETHMAN

Revision Schedule

Rev	Date	Description

SHEET TITLE:

**ENERGY
CALCULATIONS**

SHEET NUMBER:

EN-001

FOR CONSTRUCTION

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 2 [EL22]F	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern \geq 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Existing controls to remain.
C405.2.1, C405.2.1.1 1 [EL18]F	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, computer rooms, lounge/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces \leq 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet E-102
C405.2.1 2 [EL19]F	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aiseway independently and do not control lighting beyond the aiseway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: N/A
C405.2.1, open plan office areas. Occupant sensor controls in open office spaces \geq 300 sq ft, have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas \leq 600 sq ft, within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by \geq 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight-responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: N/A	
C405.2.2, 1, C405.2.2.2 2 [EL21]F	Each area not served by occupancy sensors per C405.2.1.1 have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Existing controls meet this requirement and to remain.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: SBX -US 17-92 and Lake Mary Blvd-FL Report date: 03/05/23
Data filename: Page 3 of 5

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, 2 [EL23]F	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.1. Daylight-responsive controls for applicable spaces. C405.2.3.1. Daylight-responsive control function and section C405.2.3.2. Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sidelit zones on first floor in Group A-2 and M occupancies. Location on plans/spec: N/A
C405.2.4 1 [EL26]F	Separate lighting control devices for specific uses installed per approved lighting plans: 1. Display and accent lighting, lighting in display cases, supplemental task lighting and lighting equipment for sale shall have occupancy sensor control. 2) Sleeping units shall have auto off controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Existing controls to remain.
C405.6 1 [EL26]F	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: N/A
C405.7 1 [EL27]F	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: N/A
C405.8.2, C405.8.2.1 1 [EL28]F	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: N/A
C405.5.3 1 [EL29]F	Total voltage drop across the combination of feeders and branch circuits \leq 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet E-601

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: SBX -US 17-92 and Lake Mary Blvd-FL Report date: 03/05/23
Data filename: Page 4 of 5

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2020 Florida Building Code, Energy Conservation

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 1 [PB4]F	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E Series Sheets

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: SBX -US 17-92 and Lake Mary Blvd-FL Report date: 03/05/23
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COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 Florida Building Code, Energy Conservation
Project Title: SBX -US 17-92 and Lake Mary Blvd-FL
Project Type: Alteration

Construction Site: 3764 Orlando Drive Sanford, Florida 23773
Owner/Agent: Starbucks 2401 Utah Avenue South Seattle, Washington 98134 206-318-1575
Designer/Contractor: Tim Raberding Design Forum Engineering 2056 Byers Road Dayton, Ohio 45342 944-804-7700

Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Dining: Bar Lounge/Leisure	1600	0.90	1440
Total Allowed Watts = 1440			

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Dining: Bar Lounge/Leisure (1600 sq ft.)				
LED 1: 20746: Wall Sconce/Vanity Light: Other:	1	1	10	10
LED 2: 21783: 2"x4" Troffer: Other:	1	7	40	280
LED 4: X7001: Recessed Can: Other:	1	17	15	255
CLD 1: 21779: Track Lighting: Wattage based on current limiting device capacity	0	0	360	360
LED 4: 21422: Decorative Pendant: Other:	1	1	6	6
Total Proposed Watts =				911

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: 11/06/2023

Project Title: SBX -US 17-92 and Lake Mary Blvd-FL
Data filename: Report date: 03/05/23
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REVIEWED FOR CODE COMPLIANCE
Wayne Thorne - PX3005 11-09-23
A PERMIT ISSUED SHALL BE CONSTRUED TO BE A LICENSE TO PROCEED WITH THE WORK AND NOT AS AUTHORITY TO VIOLATE, CANCEL, ALTER OR SET ASIDE ANY OF THE PROVISIONS OF THE TECHNICAL CODES, NOR SHALL ISSUANCE OF A PERMIT PREVENT THE BUILDING OFFICIAL FROM THEREAFTER REQUIRING A CORRECTION OF ERRORS IN PLANS, CONSTRUCTION OR VIOLATIONS OF THIS CODE.



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