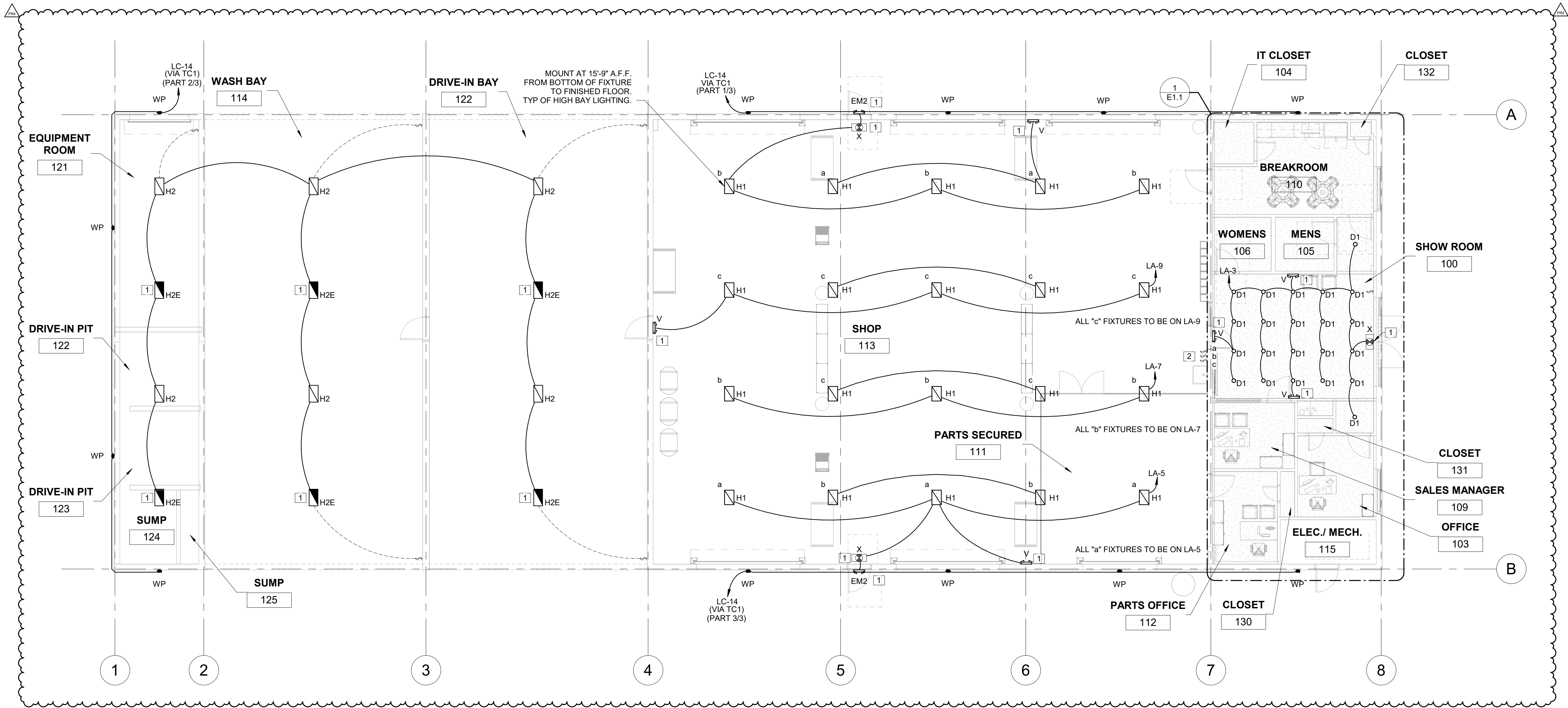


LIGHTING FIXTURE SCHEDULE										
TYPE MARK	VENDOR	MODEL	QTY	VOLTAGE	LAMP SPECIFICATION		MOUNTING	DESCRIPTION		
					LAMP	WATTAGE				
D1	VILLA LIGHTING	SATCO S41826 12-5W LED DLS ACCT SEL 120V	3	120V	LED	44 W	RECESSED	RECESSED LED DOWNLIGHT		
EM2	TRACUTE COOPER LIGHTING SOLUTIONS	WL234-14BL-B5 NFFLD-C40-D-UNV-33	3	120V	LED	29 W	SURFACE POLE	EXTERIOR DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACKUP. MOUNT TO WALL WITH TOP OF FIXTURE 6" ABOVE DOOR.		
FL2	COOPER LIGHTING SOLUTIONS	NFFLD-C40-D-UNV-66	7	120V	LED	128 W	POLE	LED FLOODLIGHT LUMINAIRE		
H1	VILLA LIGHTING	OHB 15HE MFL UNV L840	20	120V	LED	102 W	SUSPENDED	LED HIGH BAY LIGHT		
H2	COOPER LIGHTING SOLUTIONS	VHS-15-PCF-UNV-L840-CD-1-WL-U	6	120V	LED	108 W	SUSPENDED	WET LOCATION RATED LED HIGH BAY LIGHT		
H2E	COOPER LIGHTING SOLUTIONS	VT4S-15-PCF-UNV-L840-EL10W-CD-1-WL-U	6	120V	LED	108 W	SUSPENDED	WET LOCATION RATED LED HIGH BAY LIGHT WITH EMERGENCY DRIVER		
L1	VILLA LIGHTING	8SLSTP1104DD-UNV	1	UNIV	LED	94 W	SUSPENDED	8' LED STRIP LIGHT		
P4	COOPER LIGHTING SOLUTIONS	PRV-C40-D-UNV-T4-BZ	1	UNIV	LED	131 W	POLE	LED SITE LUMINAIRE		
V	EXITRONIX	QMR-WH	14	MVOLT	LED	3 W	SURFACE	INTERIOR DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACKUP. MOUNT TO SURFACE OF FINISHED CEILING OR TO WALL WITH TOP OF FIXTURE 6" BELOW CEILING. SALES FIXTURES TO BE MOUNTED WITH BOTTOM OF FIXTURES AT 12'-0" AFF. ALL OTHER AREAS OPEN TO STRUCTURE TO BE MOUNTED TO BOTTOM OF BARJOIST		
WP	COOPER LIGHTING SOLUTIONS	XTOR3B	12	120V	LED	26 W	WALL MOUNT	CROSSTOUR WALL PACK LED		
	EXITRONIX	VLED-V-WH-ELB08	3	UNIV	LED	22 W	SUSPENDED	MOUNTED AT 9'-0" AFF. CENTERED ABOVE DOOR. ARROWS AS INDICATED OR REQUIRED.		
NOTES: 1. PURCHASE ALL LIGHTING FIXTURES THROUGH VILLA LIGHTING. CONTACT: ANNE VOELKER, PH. 314.833.0554, EMAIL: equipmentshare@villalighting.com										

ELECTRICAL KEYNOTES		GENERAL LIGHTING NOTES	
#	DESCRIPTION		
1	EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTING (NOTED WITH NL) SHALL CONNECT TO THE UNSWITCHED LINE SIDE OF THE LIGHTING CIRCUIT SERVING AREA LIGHTING AND SHALL NOT BE SWITCHED.	A.	THE BRANCH CIRCUIT FEEDING THE EMERGENCY/EXIT LIGHTS SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NIGHT LIGHTING IN THE AREA AND SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES OR CONTACTORS AND PROVIDED WITH A LOCK-ON FEATURE.
2	PROVIDE TRI-LEVEL SWITCHING BY ALTERNATING SWITCH LEGS BETWEEN LIGHT FIXTURES. LOWER CASE LETTERING DENOTES THE LIGHT FIXTURE CONTROLLED BY CORRESPONDING LIGHT SWITCH.	B.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
		C.	ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABELED FOR TYPES OF EQUIPMENT AND MATERIALS FOR WHICH LISTING AND LABELING IS AVAILABLE.
		D.	FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM.
		E.	MINIMUM WIRE SIZE SHALL BE #12 A.W.G. UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH "THWN" INSULATION UNLESS NOTED OTHERWISE.
		F.	ALL WIRE SHALL BE IN CONDUIT UNLESS NOTED OTHERWISE.
		G.	TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
		H.	PROVIDE A SEPARATE GROUND CONDUCTOR FOR ALL FEEDERS AND BRANCH CIRCUITS.
		I.	CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF CIRCUIT. WHERE VOLTAGE DROP IS DETERMINED TO EXCEED THIS VALUE THE CONTRACTOR SHALL INCREASE THE SIZE OF CONDUCTORS AS REQUIRED.
		J.	CONTRACTOR TO BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT UNLESS NOTED OTHERWISE.
		K.	IN AREAS OF OPEN STRUCTURE, MOUNT STRIP FIXTURE TO BOTTOM CHORD OF BAR JOIST, UNLESS NOTED OTHERWISE.
		L.	PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
		M.	EMERGENCY LIGHT FIXTURE INSTALLATION: 1. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE. 2. PENDANT FIXTURE: BOTTOM CHORD OF BAR JOIST OR AT HEIGHT SPECIFIED ON DRAWINGS. 3. REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0", UNLESS NOTED OTHERWISE AND BATTERY PACK MOUNTED ON INTERIOR SIDE OF WALL 12" BELOW FINISHED CEILING OR AT BAR JOIST IN AREAS OF EXPOSED STRUCTURE.
		N.	EXIT SIGN MOUNTING: 1. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING. 2. CEILING FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS. 3. VERIFY MOUNTING HEIGHT WITH AHJ.



1 LIGHTING PLAN
1/8" = 1'-0"

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

pb2

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EQUIPMENT SHARE GROUND-UP

US HWY 90
LAKE CITY, FL 32055

JOB NUMBER: 2023.0377

ISSUE BLOCK

OTP	08.11.2023
PR1 PLAN REV. 1	10.13.2023
PR2 PLAN REV. 2	11.10.2023
PR4 PLAN REV. 4	09.24.2024

CHECKED BY: TJ

DRAWN BY: DR

DOCUMENT DATE: 08.11.2023

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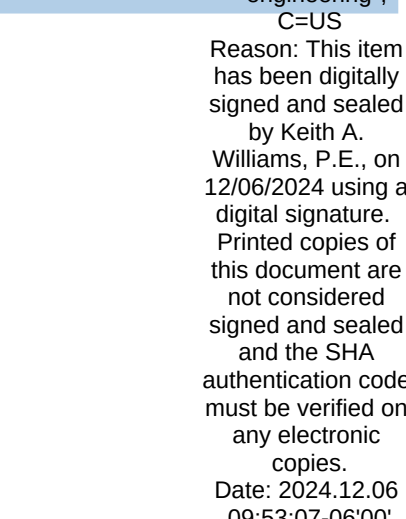
LIGHTING PLAN

SHEET: E1.0

pb2

EQUIPMENT SHARE GROUND-UP	
US HWY 90 LAKE CITY, FL 32055	
JOB NUMBER:	2023.0377

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ENLARGED
LIGHTING
PLANS

SHEET:
E1.1

1 ENLARGED LIGHTING PLAN

AVG.	1.0 fc
MAX	38.8 fc
MIN	0.0 fc
AVG/MIN	N/A
MAX/MIN	N/A

POLE MODEL NUMBERS:

- RTP-T-S11G-35-N-BRZ
- RTP-T-S11G-35-N-BRZ & BKS-PTB-3-BRZ

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US HWY 90
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ELECTRICAL SITE PLAN

SHEET:

E1.2

SITE LIGHTING PHOTOMETRIC PLAN

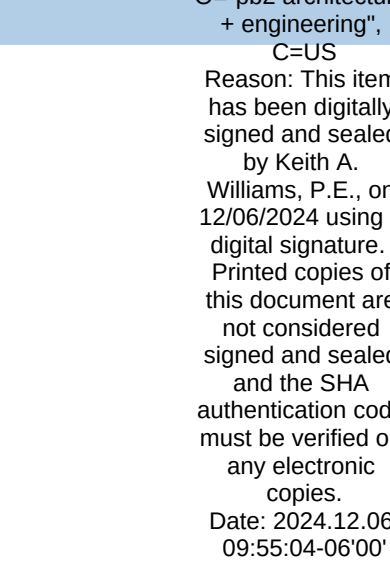
SITE LIGHTING AND POWER PLAN

1" = 40'-0"

pb2

EQUIPMENT SHARE GROUND-UP	US HWY 90 LAKE CITY, FL 32055	JOB NUMBER: 2023.0377
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ENLARGED
POWER PLAN

SHEET:
E2.1



SHEET:
E2.1

GROUND WIRE SIZING CHART

BREAKER AMPACITY	WIRE	WIRE SIZE					
15-20	PHASE	#12	#10	#8	#6	#4	
	GROUND	#12	#10	#8	#6	#4	
25-30	PHASE	#10	#8	#6	#4	#3	
	GROUND	#10	#8	#6	#4	#3	
35-50	PHASE	#8	#6	#4	#3	#2	
	GROUND	#10	#8	#6	#4	#4	
60	PHASE	#6	#4	#3	#2	#1	
	GROUND	#10	#8	#6	#4	#4	
70	PHASE	#6	#4	#3	#2	#1	
	GROUND	#8	#4	#4	#3	#2	
80-90	PHASE	#4	#3	#2	#1	#1/0	
	GROUND	#8	#6	#4	#4	#3	
100	PHASE	#3	#2	#1	#1/0	#2/0	
	GROUND	#6	#6	#4	#4	#3	

WIRE SIZES PER NEC 250.122 (B)

GENERAL NOTES

1. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR FOR A COMPLETE INSTALLATION IN ALL RESPECTS. READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH NEC, NESC, STATE, AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS. PAY ALL NECESSARY FEES AND PERMITS.

A. NO CIRCUITRY SHALL BE ALLOWED TO BE ROUTED ACROSS THE ROOF OR THE EXTERIOR SIDE OF THE EXTERIOR WALL.

B. ALL EQUIPMENT SHALL BE UL LISTED WHERE APPLICABLE.

C. ARRANGE ALL WORK TO MINIMIZE DISRUPTIONS TO BUILDING OPERATIONS. COORDINATE ALL DISRUPTIONS WITH LANDLORD.

D. CONTRACTOR SHALL VERIFY THAT ALL PANELBOARDS HAVE CIRCUIT BREAKER KNOCKOUTS PROPERLY COVERED AND THAT TRIM IS IN GOOD CONDITION, ALLOWING NO ACCESS TO LIVE PARTS.

E. CONTRACTOR SHALL VERIFY THAT ALL PANELBOARDS HAVE CIRCUIT BREAKER KNOCKOUTS PROPERLY COVERED AND THAT TRIM IS IN GOOD CONDITION, ALLOWING NO ACCESS TO LIVE PARTS.

2. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:

A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.

B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL.

C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.

3. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.

4. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:

A. SWITCHES +48"

B. RECEPTACLES +18"

C. VOICEDATA +18"

5. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.

6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES.

7. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).

8. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC. ISOLATED GROUND CIRCUITS SHALL NOT BE ROUTED IN THE SAME CONDUIT AS NORMAL POWER CIRCUITS.

9. PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.

10. ONLY FEEDER CIRCUITS NOTED ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD. PROVIDE EXTERIOR COATED GRC BENDS ON ALL CONDUIT RUNS THAT HAVE 45 DEGREE BENDS OR GREATER. REF SPECIFICATIONS.

11. WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.

12. SEISMIC ZONE REQUIREMENTS: PROVIDE EXPANSION COUPLINGS AND BRACING FOR ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL CODES.

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	LIGHT FIXTURE
	LIGHT FIXTURE, NIGHT LIGHT
	LIGHT FIXTURE, EMERGENCY DRIVER
	EXIT FIXTURE, (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT REMOTE HEADS (WALL MOUNTED/CEILING MOUNTED)
	LIGHT SWITCH - SINGLE POLE WALL SWITCH (NO LETTER DESIGNATION)
	LIGHT SWITCH - TWO POLE WALL SWITCH
	LIGHT SWITCH - THREE-WAY WALL SWITCH
	LIGHT SWITCH - FOUR-WAY WALL SWITCH
	LIGHT SWITCH - WEATHER PROOF
	LIGHT SWITCH - MOTOR RATED SWITCH
	LIGHT SWITCH - KEYED LIGHT SWITCH
	LIGHT SWITCH - DIMMER TYPE SWITCH
	LIGHT SWITCH - VACANCY SENSOR
	LIGHT SWITCH - TWO POLE VACANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	RELAY
	ELECTRICAL JUNCTION BOX
	DUPLEX RECEPTACLE, 3 WIRE GROUND TYPE, 20A
	DUPLEX RECEPTACLE, WEATHERPROOF, 20A
	GROUND FAULT PROTECTED DUPLEX RECEPTACLE, 20A, @40" AFF, UNO
	QUADRUPLEX WALL RECEPTACLE, 20A
	SPECIAL RECEPTACLE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	VOICE/DATA BOX
	LIGHT FIXTURE IDENTIFICATION
	KEYNOTE CALLOUT
	COAXIAL CABLE FOR TELEVISION
	ELECTRICAL DISCONNECT SWITCH - CONFIRM # OF POLES & SIZE WITH MANUFACTURER OF EQUIPMENT BEING SERVED PRIOR TO PULLING WIRE
	ELECTRICAL CONDUIT TRENCH PATH
	COMBINATION RECEPTACLE WITH USB PORT
	FIRE ALARM SYSTEM MANUAL PULL STATION AT +48" A.F.F.
	FIRE ALARM SYSTEM SPEAKER/SSTROBE AT +90" A.F.F. 15 cd UNLESS NOTED OTHERWISE. 'CLG' INDICATES CEILING MOUNTED
	CEILING MOUNTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, 24V DC
	FIRE ALARM SYSTEM STROBE ALARM AT +90" A.F.F. 15 cd
	SPRINKLER SYSTEM TAMPER SWITCH
	SPRINKLER SYSTEM FLOW SWITCH
	FOR ENERGY MANAGEMENT, SENSORS, SWITCHING AND DIMMING SYMBOLS, PLEASE REFER TO THE LIGHT FIXTURE SCHEDULE.

NOTE:
ALL SYMBOLS DO NOT NECESSARILY APPLY MOUNTING HEIGHT TO CENTERLINE - U.N.O.
IN HANDICAPPED AREAS, THE RECEPTACLES AND TELEPHONE OUTLETS SHALL BE MOUNTED AT +24" A.F.F.; THE TOGGLE SWITCHES, THERMOSTATS, AND MANUAL STARTERS SHALL BE MOUNTED AT +42" A.F.F.

ABBREVIATIONS
a, b, c LOWER CASE LETTERS INDICATE
SWITCHING CONFIGURATION
AFF ABOVE FINISHED FLOOR
FGF ABOVE FINISHED GRADE
CCT CONDUIT
EC CIRCUIT
EF ELECTRICAL CONTRACTOR
ETR EXHAUST FAN
ETR EXISTING TO REMAIN
EWC ELECTRIC WATER COOLER
G GROUND
GC GENERAL CONTRACTOR
GFP GROUND FAULT EQUIPMENT PROTECTION
GFI GROUND FAULT CIRCUIT INTERRUPTER
HD HAND DRYER
IG ISOLATED GROUND
NL NIGHT LIGHT
NTS NOT TO SCALE
RH RADIANT HEATER
SC SECURITY CAMERA
TR TAMPER RESISTANT
TYP TYPICAL
UH UNIT HEATER
UNO UNLESS NOTED OTHERWISE
WH WATER HEATER
WP WEATHER PROOF
WR WEATHER RESISTANT

7 LIGHTING CONTACTOR 5

1 1/2" = 1'-0"

PANEL LF
LF-17
120V

LC5

LF-13, 15
SPARE
120V/30A

DYED DIESEL TANK PUMP
SPARE

6 LIGHTING CONTACTOR 4

1 1/2" = 1'-0"

PANEL LF
LF-17
120V

LC4

LF-9, 11
SPARE
120V/30A

CLEAR DIESEL TANK PUMP
SPARE

5 LIGHTING CONTACTOR 3

1 1/2" = 1'-0"

PANEL LF
LF-17
120V

LC3

LF-7
SPARE
120V/30A

GASOLINE TANK PUMP
SPARE

4 LIGHTING CONTACTOR 2

1 1/2" = 1'-0"

PANEL LC
LC-15
120V

LC2

LC-16
SPARE
120V/30A

EQUIPMENT SHARE SIGN
SPARE
SPARE
SPARE

ON - DUSK, OFF- SEE NOTE

3 LIGHTING CONTACTOR 1

1 1/2" = 1'-0"

PANEL LC
LC-15
120V

LC1

LC-11
LC-12
LC-13
LC-14
120V/30A

SITE LIGHTING
SITE LIGHTING
FUEL ISLAND LIGHTING
LTS EXTERIOR

ON - DUSK, OFF- SEE NOTE

2 GROUNDING ELECTRODE SYSTEM

1/2" = 1'-0"

(1) #6 BARE COPPER TO TELEPHONE EQUIPMENT

SERVICE DISCONNECT

EXTERIOR WALL

VERTICAL STEEL BUILDING

BOND TO BUILDING STEEL WITH EXOTHERMIC WELD. BOND AT 8'-4" AFF TO THE INTERIOR FACE OF THE STEEL OF THE EXTERIOR WALL IN THE ELECTRICAL ROOM. REMOVE A 6"x6" PORTION OF GYP AT THE BOND LOCATION SO IT IS VISIBLE AFTER CONSTRUCTION IS COMPLETE.

(1) #3/0 BARE COPPER

GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION

IF WATER SERVICE LINE IS METAL, IT MUST BE BONDED TO GROUNDING ELECTRODE SYSTEM WITH A 3/0 THWN COPPER CONDUCTOR

PROVIDE SLEEVES AS REQUIRED FOR GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 3/8" x 8' LONG CU GROUND ROD WITH LISTED CLAMP.

FINISH GRADE

(1) #3/0 BARE COPPER

EQUIPMENT BONDING JUMPER

EQUIPMENT GROUND BUS

MAIN BONDING JUMPER

NEUTRAL BUS

1 ONE-LINE DIAGRAM

NTS

NEW 600A MANUAL TRANSFER SWITCH/SERVICE DISCONNECT (DT366NRKLC) ADJACENT TO METER AND CT CABINET ON EXTERIOR WALL

2 SETS OF 4" (4)#350 KCMIL CU, EACH

FROM UTILITY COMPANY TRANSFORMER, COORDINATE EXACT LOCATION AND TYPE WITH CIVIL PLANS AND PROVIDER

65,000

GROUNDING ELECTRODE SYSTEM PER NEC, REF 2IE3.0

#2 CU GND PER NEC

NEW MAIN PANELBOARD MDP 277/480V, 3PH, 4W, 600A MLO

55,433

2 SETS OF 3" (4)#350 KCMIL CU, (1)#1 CU GND

1" (3)#3 CU, (1)#6 CU GND

1-1/2" (3)#2/0 CU, (1)#6 CU GND

6,325

5,802

NEW PNLBD LA 400A 208/120V 3PH, 4W MCB

NEW PNLBD LC 200A 208/120V 3PH, 4W MCB

39,338

NEW XFMR TA 480V 112.5KVA 208/120V 3PH

6,624

2 SETS OF 2" (4)#30 CU, (1)#2 CU GND

2" (4)#3/0 CU, (1)#4 CU GND

2" (4)#3/0 CU, (1)#4 CU GND

4,200

PHOTOCELL

TC1

ENCLOSED CONTACTOR 1 NEMA 3R

ENCLOSED CONTACTOR 2 NEMA 3R

NEW PNLBD LC 200A 208/120V 3PH, 4W MCB

4,200

2" (4)#3/0 CU, (1)#4 CU GND

2" (4)#3/0 CU, (1)#4 CU GND

2,217

NEW PNLBD LF 100A 208/120V 3PH, 4W MCB

ENCLOSED CONTACTOR 3 NEMA 3R

ENCLOSED CONTACTOR 4 NEMA 3R

ENCLOSED CONTACTOR 5 NEMA 3R

2" (4)#3/0 CU, (1)#4 CU GND

1-1/4" (4)#3 CU, (1)#6 CU GND

E-STOP

E-STOP BUTTON TO CONTROL SHUNT TRIP MCB FOR SHUT DOWN OF FUEL ISLAND CIRCUITS.

2" (4)#3/0 CU, (1)#4 CU GND

4,468

NEW XFMR TC 480V 75KVA 208/120V 3PH

8,599

SHOP

EXTERIOR

INTERIOR (ELECMECH ROOM)

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EQUIPMENT SHARE GROUND-UP

US HWY 90

LAKE CITY, FL 32055

2023.03/27

JOB NUMBER

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TJ

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DR

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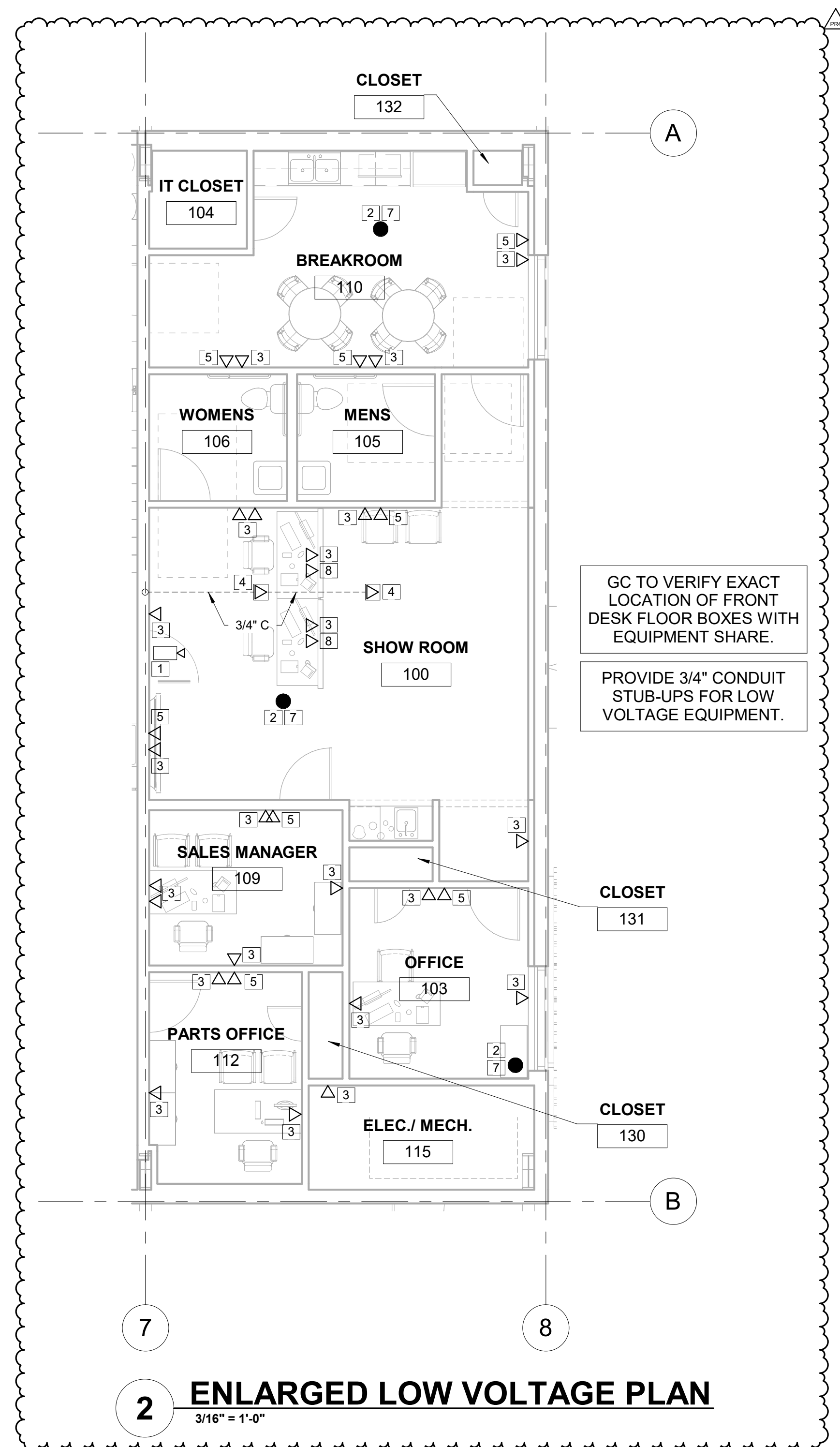
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ELECTRICAL ONE-LINE DIAGRAM AND SYMBOLS LEGEND

SHEET:

E3.0



ELECTRICAL KEYNOTES		LOW VOLTAGE GENERAL NOTES
#	DESCRIPTION	
1	CAT 6 RJ45 (GREEN CABLE FOR SECURITY CAMERAS). PINOUT T-568B. INTERIOR SECURITY CAMERAS TO BE MOUNTED AT +9'-0" A.F.F. EXTERIOR SECURITY CAMERAS TO BE MOUNTED AT +14'-0" A.F.F. SECURITY CAMERAS TO BE WALL MOUNTED UNLESS NOTED OTHERWISE.	1. ALL ETHERNET CABLES AND ALL ETHERNET PATCH-CABLES WILL BE FROM THE MANUFACTURER, VERTICAL CABLE, AND WILL COMPLY WITH THEIR CAT6 UTP STANDARD.
2	CAT 6 RJ45 (ORANGE CABLE FOR APs). AP DEVICES TO BE WALL MOUNTED AT +9'-0" A.F.F. UNLESS NOTED OTHERWISE. PINOUT T-568B.	A. #22 AWG, SOLID COPPER WIRE, 552MM ² , CMR (RISER-RATED), NOISE REDUCING CROSS SEPARATOR).
3	CAT 6 RJ45 (BLUE CABLE FOR DATA PORTS). PINOUT T-568B. DATA PORTS TO BE MOUNTED AT +18" A.F.F.	B. ALL ETHERNET CABLES, KEYSTONES, AND PATCH-CABLES SHALL BE COLOR COORDINATED BASED ON DEVICE TYPE.
4	CAT 6 RJ45 (BLUE CABLE FOR FLOOR BOX DATA PORTS). PINOUT T-568B.	C. GREEN TO BE USED FOR CAMERAS AND CAMERA-RELATED DEVICES.
5	CAT 6 RJ45 (BLUE CABLE FOR TV PORTS). TV PORTS TO BE MOUNTED AT +60" A.F.F.	D. ORANGE TO BE USED FOR CRITICAL CONNECTIONS SUCH AS, UPLINKS, ACCESS POINTS, WAN CONNECTIONS, ETC.
6	CONDUIT THROUGH WALL FOR DOOR ACCESS.	E. BLUE TO BE USED FOR PCs, PHONES, PRINTERS, TVS, AND OTHER PERIPHERALS.
7	DEVICE TO BE CEILING MOUNTED.	
8	DATA PORTS TO BE MOUNTED INSIDE OF KIOSK. ROUTE CONDUIT CONCEALED WITHIN WALL, AND ALONG BACK SIDE OF KIOSK SHELF AS REQUIRED TO SERVE DATA PORTS. COORDINATED EXACT PLACEMENT WITH OWNER PRIOR TO INSTALLATION.	2. SERVICE LOOPS SHALL BE PLACED AT EACH END BEFORE CABLING REACHES THE TERMINATION POINTS.
		A. THE SERVICE LOOP AT THE I.T. RACK SHALL BE APPROXIMATELY 6'-0" IN LENGTH.
		B. THE SERVICE LOOP AT THE DEVICES SHALL BE APPROXIMATELY 3'-0" IN LENGTH.
		3. WHERE ALLOWED BY AHJ, INSTALL 3/4" BLUE, NONMETALLIC, FLEXIBLE TUBING SHALL BE INSTALLED FROM EACH LOW VOLTAGE RECEPTACLE THROUGH THE STUD BAY UP INTO THE CEILING.
		4. INSTALL EMT CONDUIT AND BUSHINGS AS NECESSARY TO PROTECT CABLING RUN THROUGH CEILINGS, WALLS, OR ANY OTHER SPACE REQUIRING PROTECTION OF CABLING.
		5. RJ45 CONNECTORS WILL WORK WITH CAT6 AND CAT6A CABLES, BE INTERNALLY GROUNDED, PROVIDE STRAIN RELIEF, AND SHIELDING WHERE NECESSARY.
		6. ALL ETHERNET TERMINATIONS WILL USE THE EIA/TIA 568B STANDARD.
		7. ALL VISIBLE CABLES WITHIN TERMINATION CABINET WILL BE COMBED AND WELL-MANAGED USING VELLO STRAPS, SPACED 12" APART. NO ZIP TIES ARE ALLOWED, EXCEPT FOR THOSE THAT SECURE THE CABLES TO THE PATCH PANEL, STRAIN-RELIEF BRACKET INSIDE RACKS.

