BUILDING DEVELOPMENT PLANS FOR:

FOOD LION

SHOPPING CENTER

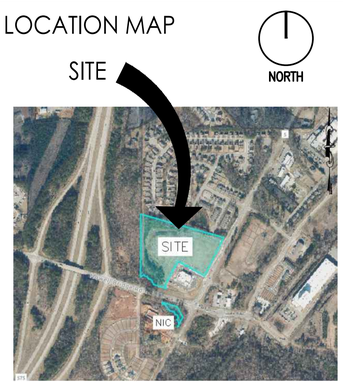
SITE ADDRESS:

8113 BALL GROUND HWY.
BALL GROUND, GA 30107
LAND LOT 79 & 138, 02 DISTRICT
PARCEL ID: 03-0138-0005

VICINITY MAP



LOCATION MAP



CODE / PROJECT DATA

CONSTRUCTION CLASSIFICATION:	
BUILDING CODE:	2024 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS
MECHANICAL CODE:	2024 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS
PLUMBING CODE:	2024 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE WITH GEORGIA AMENDMENTS
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA AMENDMENTS
FIRE CODE:	2024 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS
ACCESSIBILITY CODE:	NFPA 101 LIFE SAFETY CODE WITH GEORGIA AMENDMENTS
USE AND OCCUPANCY CLASSIFICATION:	MIXED USE
CONSTRUCTION TYPE:	B-II
BLDG AREA (ACTUAL):	50,142 SQ. FT.
BLDG AREA (ALLOWABLE):	UNLIMITED
BLDG HEIGHT (ACTUAL):	30'-3"
BLDG HEIGHT (ALLOWABLE):	75'-0"
WIND SPEED:	115 MPH(ULT) / 90 MPH(ASD)
SEISMIC DESIGN CATEGORY:	C
SPRINKLER SYSTEM:	YES _____ NO _____

SITE DATA

PARCEL ID: (REFERENCE):	03-0138-0005
EXISTING LAND USE:	VACANT
PROPOSED LAND USE:	GROCERY STORE WITH RETAIL (SHOPPING CENTER)
CURRENT ZONING:	TND TRADITIONAL NEIGHBORHOOD DEVELOPMENT
PROPOSED ZONING:	NO CHANGE
OVERLAY DISTRICT:	N/A
LOCAL JURISDICTION:	CITY OF BALL GROUND
FLOOD ZONE CLASSIFICATION:	ZONE X
SITE AREA:	7.95 ACRES, PART OF 11.40 ACRES

OWNER & CONSULTANTS

OWNER
TIMBER DEVELOPMENT CORP.
1060 WEST STATE RD. 434, SUITE 156
LONGWOOD, FL 32750
407.227.7277 / 407.830.8863 (24 HR.)
CONTACT: MICHAEL TIMMONS
EMAIL: TIMBERDEV@AOL.COM

ARCHITECT
INTERPLAN LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
CONTACT: DAFNA COSTALES
AOR: LAUREL R. MARTIN

CIVIL ENGINEER (SEPARATE PERMIT)
LJA ENGINEERING
130 E. MAIN STREET, SUITE 204
CANTON, GA 30114
470.863.1070
CONTACT: TERRY BOOMER
EMAIL: TBOOMER@LJA.COM

MECHANICAL ENGINEER
INTERPLAN LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
CONTACT: RYAN NATALE
EOR: STACY HENSON

PLUMBING ENGINEER
INTERPLAN LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
CONTACT: RYAN NATALE
EOR: STACY HENSON

ELECTRICAL ENGINEER
INTERPLAN LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008
CONTACT: BAHAR JAVAN
EOR: STACY HENSON

STRUCTURAL ENGINEER
DANSK CONSULTING, LLC
1673 LAKE BALDWIN LANE
ORLANDO, FL 32814
407.2852.4225
CONTACT: BJARNE MADSEN
EMAIL: BMADSEN@DANSKCONSULT.COM

SCOPE OF WORK

PHASE I – SCOPE CONSISTS OF FOUNDATION PLANS, CONSTRUCTION PLANS, PRELIMINARY EXTERIOR ELEVATIONS FOR REFERENCE FOR THE RETAIL AND FOOD LION ANCHOR TENANT. THIS SET INCLUDES UNDERGROUND UTILITY MEP ROUGH-INS FOR THE RETAIL AND FOOD LION ANCHOR TENANT.

PHASE II – SCOPE CONSISTS OF SHELL CONSTRUCTION PLANS, FOUNDATION PLANS AND EXTERIOR ELEVATIONS FOR THE NEW FOOD LION SHOPPING CENTER. THIS INCLUDES MEP ROUGH-INS FOR THE UNDERGROUND UTILITIES FOR THE RETAIL TENANTS AND FOR THE FOOD LION ANCHOR TENANT.

PROPOSED COMMERCIAL SHOPPING CENTER TO INCLUDE ONE 49,773 SQUARE FOOT BUILDING COMPRISED OF A 36,973 SQUARE FOOT FOOD LION ANCHOR TENANT AND EIGHT RETAIL TENANTS SPACES TOTALING 12,800 SQUARE FEET.

CIVIL DRAWINGS ARE HANDLED UNDER SEPARATE PERMIT.

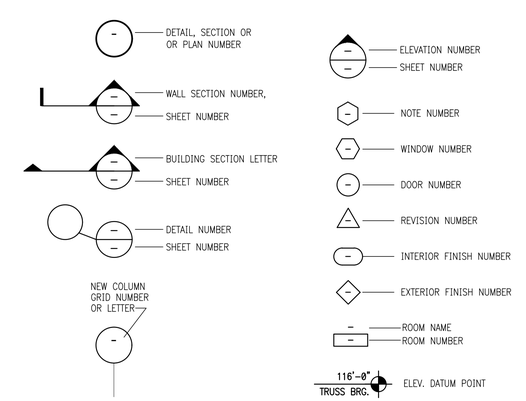
SHEET INDEX

SHT. NO.	DESCRIPTION	PHASE I BLDG. PERMIT SUBMITTAL	PHASE I & II BLDG. PERMIT SUBMITTAL			
	DATE ISSUED	09/30/26	11/2/26			
		REVISION NO.				
	GENERAL ARCHITECTURAL DRAWINGS					
G0.00	COVER SHEET	X				
G1.01	RESPONSIBILITY SCHEDULE		X			
G1.03	OVERALL FIRE SAFETY PLAN – FOOD LION		X			
G1.03a	FIRE SAFETY PLAN – NORTH & SOUTH UNITS		X			
G1.04	ADA SHEET		X			
LS.01	OVERALL EMERGENCY EGRESS PLAN – FOOD LION		X			
LS.01a	EMERGENCY EGRESS PLAN – NORTH & SOUTH UNITS		X			
	STRUCTURAL DRAWINGS					
S0.1	STRUCTURAL NOTES	X	X			
S1.1	FOUNDATION PLAN	X	X			
S1.2	FOUNDATION PLAN	X	X			
S1.3	FOUNDATION PLAN	X	X			
S2.1	ROOF FRAMING PLAN	X	X			
S2.2	ROOF FRAMING PLAN	X	X			
S2.3	ROOF FRAMING PLAN	X	X			
S3.1	STRUCTURAL DETAILS	X	X			
S3.2	STRUCTURAL DETAILS	X	X			
S4.1	FOUNDATION SECTIONS	X	X			
S4.2	FOUNDATION SECTIONS	X	X			
S5.1	FRAMING SECTIONS	X	X			
S5.2	FRAMING SECTIONS	X	X			
S5.3	FRAMING SECTIONS	X	X			
	ARCHITECTURAL DRAWINGS					
A1.0	ARCHITECTURAL SITE PLAN	X				
A1.01a	PROPOSED FIXTURE PLAN – FOOD LION		X			
A1.03	TENANT INFILL FLOOR PLAN – FOOD LION		X			
A1.04a	REFLECTED CEILING PLAN – SOUTH & NORTH UNITS		X			
A1.05a	FLOOR FINISH PLAN – SOUTH & NORTH UNITS		X			
A1.1	OVERALL CONSTRUCTION PLAN	X	X			
A1.1a	CONSTRUCTION PLAN – SOUTH & NORTH UNITS	X	X			
A1.2	OVERALL SLAB PLAN – FOOD LION	X	X			
A1.2a	SLAB PLAN – SOUTH & NORTH UNITS	X	X			
A1.2B	SLAB PLAN – ENLARGED FOOD LION	X	X			
A1.3	OVERALL ROOF PLAN	X	X			
A1.3a	ROOF PLAN – SOUTH & NORTH UNITS	X	X			
A1.3b	ROOF PLAN – ENLARGED FOOD LION	X	X			
A2.0	EXTERIOR ELEVATIONS	X	X			
A3.01	WALL SECTIONS		X			
A3.02	WALL SECTIONS		X			
A3.03	WALL SECTIONS		X			
A3.04	WALL SECTIONS		X			
A3.05	WALL SECTIONS		X			
A3.06	WALL SECTIONS		X			
A3.07	WALL SECTIONS		X			
A3.08	WALL SECTIONS		X			
A3.09	WALL SECTIONS		X			
A3.10	WALL SECTIONS		X			
A4.05a	ENLARGED PLANS & ELEVATIONS – RESTROOMS – SOUTH & NORTH UNITS		X			
A5.03	DETAILS – HEAD, JAMB & SILL		X			
A5.05	DETAILS – ROOF		X			
A5.06	DETAILS – EXTERIOR & SITE		X			
A6.01a	TENANT SCHEDULES – SOUTH & NORTH UNITS		X			
A6.02	WINDOW SCHEDULE & ELEVATIONS – FOOD LION		X			
A6.02a	WINDOW SCHEDULE & ELEVATIONS – TENANT'S		X			
	MECHANICAL DRAWINGS					
M0.01a	MECHANICAL GENERAL NOTES AND LEGEND		X			
M0.02a	MECHANICAL SITE PLAN		X			
M1.1a	MECHANICAL FLOOR PLAN – NORTH AND SOUTH UNITS		X			
M5.01a	MECHANICAL DETAILS		X			
M6.01a	MECHANICAL SCHEDULES		X			
M7.01a	ENERGY COMPLIANCE		X			
M7.02a	ENERGY COMPLIANCE		X			
M8.01a	MECHANICAL SPECIFICATIONS		X			
M8.02a	MECHANICAL SPECIFICATIONS		X			

SHEET INDEX

SHT. NO.	DESCRIPTION	PHASE I BLDG. PERMIT SUBMITTAL	PHASE I & II BLDG. PERMIT SUBMITTAL			
	DATE ISSUED	09/30/26	11/2/26			
		REVISION NO.				
	PLUMBING DRAWINGS					
UGP0.1	UNDERGROUND PLUMBING GENERAL NOTES AND LEGEND	X	X			
UGP1.01	UNDERGROUND PLUMBING SITE PLAN	X	X			
UGP1.01a	UNDERGROUND PLUMBING PLAN – ENLARGED NORTH AND SOUTH UNITS	X	X			
UGP1.01b	UNDERGROUND PLUMBING PLAN – ENLARGED FOOD LION	X	X			
P0.01a	PLUMBING GENERAL NOTES AND LEGEND		X			
P0.02a	PLUMBING SITE PLAN		X			
P1.01a	PLUMBING PLAN – NORTH AND SOUTH UNITS		X			
P1.03a	PLUMBING PLAN – NORTH AND SOUTH UNITS		X			
P1.04a	GAS PIPING PLAN – NORTH AND SOUTH UNITS		X			
P5.01a	PLUMBING ISOMETRICS – NORTH AND SOUTH UNITS		X			
P6.01a	PLUMBING SCHEDULES		X			
P6.02a	PLUMBING DETAILS		X			
P8.01a	PLUMBING SPECIFICATIONS		X			
P8.02a	PLUMBING SPECIFICATIONS		X			
	FIRE SPRINKLER DRAWINGS					
FP0.01a	FIRE SPRINKLER GENERAL NOTES AND LEGEND		X			
FP1.01a	FIRE SPRINKLER PLAN – NORTH AND SOUTH UNITS		X			
	ELECTRICAL DRAWINGS					
E0.1A	ELECTRICAL GENERAL NOTES	X	X			
UGE1.0	ELECTRICAL SITE PLAN		X			
UGE2.0	ELECTRICAL PLAN – ENLARGED		X			
UGE1.1	SITE LIGHTING PLAN		X			
E1.1	ELECTRICAL OVERALL FLOOR PLAN		X			
E2.0	ELECTRICAL POWER PLAN – ENLARGED NORTH AND SOUTH UNITS		X			
E2.1	ELECTRICAL POWER PLAN – FOOD LION		X			
E3.0	ELECTRICAL LIGHTING PLAN – ENLARGED NORTH AND SOUTH UNITS		X			
E3.1	ELECTRICAL LIGHTING PLAN – FOOD LION		X			
E4.0	ELECTRICAL RISER DIAGRAM – NORTH AND SOUTH UNITS	X	X			
E4.1	ELECTRICAL RISER DIAGRAM – FOOD LION		X			
E5.0	ELECTRICAL PANEL SCHEDULE		X			
E5.2	ELECTRICAL DETAILS	X	X			
E6.0	ELECTRICAL SPECIFICATIONS 1		X			
E6.1	ELECTRICAL SPECIFICATIONS 2		X			
E6.2	ELECTRICAL SPECIFICATIONS 3		X			
E6.3	ELECTRICAL SPECIFICATIONS 4		X			
E8.0	ENERGY ENERGY CALCULATIONS		X			

SYMBOLOGY / LEGEND



ABBREVIATIONS

AC	AIR CONDITIONING
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ASPH	ASPHALT
AT	ALUMINUM THRESHOLD
BD	BOARD
BLKT	BLANKET
CJ	CONTROL JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
C/L	CENTER LINE
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWN SPOUT
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV / EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FD	FLOOR DRAIN
FE	IRE EXTINGUISHER
FF	FINISH FLOOR
FR	FIRE RATED
GALV	GALVANIZED
GYPBD	GYPSUM BOARD
HC	HANDICAPPED
HDW	HARDWARE
HM	HOLLOW METAL
HVAC	HEATING, AIR CONDITIONING, & VENT
INFO	INFORMATION
INSUL	INSULATION
LAC	LAY-IN ACOUSTICAL CEILING
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFGR / MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MR	MIRROR/MOISTURE RESISTANT
MT	MARBLE THRESHOLD
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PT	PAINT / PRESSURE TREATED
QT	QUARRY TILE
R	RISER/RADIUS
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCE
REQ'D	REQUIRED
RO	ROUGH OPENING
SB	SPLASHBLOCK
SHLVS	SHELVES
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
SUSP	SUSPENDED
T	TREAD
TELE	TELEPHONE
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VT	VINYL THRESHOLD
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOF
WWF	WELDED WIRE FABRIC
W/	WITH

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS

REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

G0.00
COVER SHEET

CHECKED: DNC DRAWN: WRC

COPYRIGHT © 2026 INTERPLAN LLC RESERVED COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

P:\TimberDevelopmentCorp\2026.0771 - 8113 Ball Ground Highway Road, Ball Ground, GA\3 CAD & Drawings\2 Construction Documents\Phase I & II\2026.0771 G0.00 COVER SHEET.dwg, G0.00, 11/2/2026 11:10:54 AM, DAFCOS, DWG To PDF.pc3, ARCH Full Bleed D (36.00 x 24.00 Inches), 1:1

GENERAL NOTES

1. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, ORDINANCES, ETC.
2. SEE LUMINAIRE SCHEDULE E1.0 FOR INFORMATION.
3. EXIT SIGNS AND EMERGENCY LIGHTS SHALL HAVE THEIR OWN SELF-CONTAINED STANDBY BATTERY POWER SUPPLY. IF LOCAL CODE REQUIRES A DIRECT TAP BEFORE ANY CIRCUIT BREAKERS THEN INCORPORATE INTO THE FEEDER DIAGRAM.
4. PROVIDE EMERGENCY LIGHTING TO MEET THE REQUIRED FOOT CANDLE LEVEL PER LOCAL CODE.
5. LUMINAIRES INSTALLED IN CONTINUOUS ROWS SHALL BE GROUNDED WITH A CONDUCTOR ROUTED FROM LUMINAIRE TO LUMINAIRE, MOUNTED TO EACH WITH GROUNDING LUG OR SCREW. ALIGNING CLIPS ARE NOT ACCEPTABLE. LUMINAIRE GROUNDING SHALL BE INSTALLED IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE, ARTICLE 410-21.
6. CEILING LIGHTS ARE TO BE WIRED TO THE BAR JOIST MEMBERS AT THE DIAGONAL CORNERS.
7. COORDINATE LIGHTING WITH SPRINKLER & MECHANICAL DRAWINGS.
8. REFERENCE TO HEIGHT OF OUTLET OR RECEPTACLE SHALL BE MEASURED FROM FINISHED FLOOR TO CENTER OF OUTLET OR RECEPTACLE.
9. ALL RECEPTACLES SHALL BE GROUNDING TYPE.
10. ALL RECEPTACLES AND SWITCHES SHALL HAVE TWO (2) REVOLUTIONS OF ELECTRICAL TAPE (SCOTCH 33+) OVER ALL THE TERMINALS, TO PREVENT ACCIDENTAL CONTACT WITH THE JUNCTION BOX OR OUTLET BOX.
11. CONDUIT SIZE TO BE PER NEC. PVC CONDUIT AND FITTINGS ARE ACCEPTABLE ONLY BELOW SUBBASE MATERIAL OF GROUND BEARING FLOOR SLABS WHERE SUCH USE IS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
12. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID STEEL (SIZE PER NEC), OR MC CABLE WHERE ALLOWED BY CODE. WHERE MC CABLE IS USED, PROPER SECUREMENT AND SUPPORT (AT INTERVALS NOT EXCEEDING 6 FEET) SHALL BE FOLLOWED PER NEC ART. 330.
13. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX AND CONDUIT STUB-UP ABOVE CEILING FOR ALL LOW VOLTAGE CABLING.
14. DIMENSION IS FROM FINISHED WALL, SEE ARCHITECTURAL FOR WALL THICKNESS.
15. FIELD COORDINATE EXACT LOCATION OF OUTLETS AS DETERMINED BY THE ACTUAL FURNITURE LAY OUT. VERIFY WITH FIXTURE PLAN.
16. COORDINATE WITH OTHER DISCIPLINES FOR ELECTRICAL REQUIREMENTS OF EQUIPMENT NOT SHOWN ON DETAILS (i.e. ROOF-TOP UNITS, UNIT HEATERS, FANS, ETC.).
17. EC SHALL VERIFY IN FIELD ALL KITCHEN EQUIPMENT CONNECTIONS AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION OF DEVICES. VERIFY ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH FOOD SERVICE CONTRACTOR. EC SHALL MAKE ADJUSTMENTS IN FIELD TO MATCH ACTUAL EQUIPMENT BEING INSTALLED, AS DIRECTED BY THE FOOD SERVICE CONTRACTOR.
18. CONTRACTOR IS REQUIRED TO INSTALL STANDARD RECEPTACLES FOR CIRCUITS DEDICATED TO SPECIFIC EQUIPMENT. SUBJECT TO THE APPROVAL OF CODE ENFORCING AGENCY.
19. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION REQUIREMENTS: PROVIDE GFCI PROTECTION IN STRICT ACCORDANCE WITH NEC SECTIONS 210.8(B), 210.8(D), AND 422.5. GFCI PROTECTION SHALL BE OF THE TYPE REQUIRED BY THE NEC FOR THE APPLICABLE RECEPTACLE, BRANCH CIRCUIT, OUTLET, OR APPLIANCE AS DICTATED BY THE GOVERNING CODE EDITION. CLASS A PERSONNEL PROTECTION (4MA-6MA TRIP THRESHOLD) SHALL BE PROVIDED AS MANDATED BY THE APPLICABLE NEC. WHERE CLASS A GFCI PERSONNEL PROTECTION IS REQUIRED, GROUND-FAULT PROTECTION OF EQUIPMENT (GFEP) OR OTHER EQUIPMENT-LEVEL PROTECTION SHALL NOT BE USED AS A SUBSTITUTE. THE CONTRACTOR SHALL CONFIRM ALL INSTALLATION REQUIREMENTS WITH THE MANUFACTURER'S SPECIFICATIONS, PRODUCT LISTINGS, AND LOCAL AMENDMENTS, AND COORDINATE FINAL INSTALLATION WITH THE AUTHORITY HAVING JURISDICTION (AHJ). IF GROUND FAULT TYPE RECEPTACLES ARE NOT AVAILABLE OR NOT READILY ACCESSIBLE, GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE CIRCUIT BREAKER. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL CONDUCTOR (NOT SHARED) TO OPERATE PROPERLY.
20. SERVICE CONDUCTORS ARE DESIGNED BASED ON THE SERVICE DISTANCE OF 100' TO MEET THE 2% VOLTAGE DROP PER NEC.
    IF SERVICE CONDUCTOR IS BETWEEN:
    100' TO 150' – E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN
    150' TO 200' – E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN
    200' TO 250' – E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN
21. BRANCH CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 3% VOLTAGE DROP PER NEC.
    IF BRANCH CONDUCTOR IS BETWEEN:
    100' TO 150' – E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN
    150' TO 200' – E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN
    200' TO 250' – E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN
22. E.C. IS TO VERIFY WITH LOCAL AHJ FOR REQUIREMENT OF EXTERIOR EMERGENCY EGRESS LIGHTING AND ADJUST BID TO INCORPORATE AS NEEDED.
23. A.I.C OF PANELS AND SERVICE ENTRANCE EQUIPMENT IS BASED ON TYPICAL TRANSFORMER SPECIFICATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT UTILITY A.I.C RATING AND MAKE EQUIPMENT ADJUSTMENTS AS REQUIRED IN THE FIELD AT NO EXTRA COST TO OWNER. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY FIELD CHANGES BASED ON UTILITY EQUIPMENT DATA.

LEGEND (NOT ALL SYMBOLS ARE USED WITHIN THIS SET OF DRAWINGS)

LIGHTING

▨	PANELBOARD
	FUSED DISCONNECT SWITCH, RATING AS NOTED.
	NON-FUSED DISCONNECT SWITCH, RATING AS NOTED.

ABBREVIATIONS

WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPT
O.C	ON CENTER
ETR	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR

STANDARD MOUNTING HEIGHTS

A.F.F (IN.)	DESCRIPTION
84"	AUDIBLE APPLIANCES
48"	ALARMS
48"	ANNUNCIATOR PANELS
84"	CLOCK OUTLETS (CENTERLINE)
48"	CONTROLS (CENTERLINE)
80"	EXIT SIGNS (WALL MOUNTED, BOTTOM)
60"	FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)
120"	FIRE ALARM BELL (EXTERIOR)
60"	FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)
36"	INTERCOM (AREA ONLY)
48"	INTERCOMS
72"	PANELS/PANELBOARDS (TOP)
48"	PULL STATIONS (TOP OF BOX)
144"	PHOTOCELLS
18"	RECEPTACLES (CENTERLINE)
24"	RECEPTACLES (EXTERIOR)
26"	RECEPTACLES (GARAGES)
48"	RECEPTACLES IN EQUIPMENT ROOMS
48"	REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)
CEILING	REMOTE INDICATING LIGHT (FINISHED AREAS)
48"	SAFETY SWITCHES
48"	STARTERS
48"	SWITCHES (TOP OF BOX)
1@48" 1@36"	TELEPHONES (PUBLIC)
18"	TELEPHONE DATA OUTLETS (CENTERLINE)
6"	TELEPHONE TERMINAL BOARD (BOTTOM)
18"	TELEVISION OUTLETS
84"	VISIBLE APPLIANCES (CENTERLINE)

INTERPLAN

INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS

REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

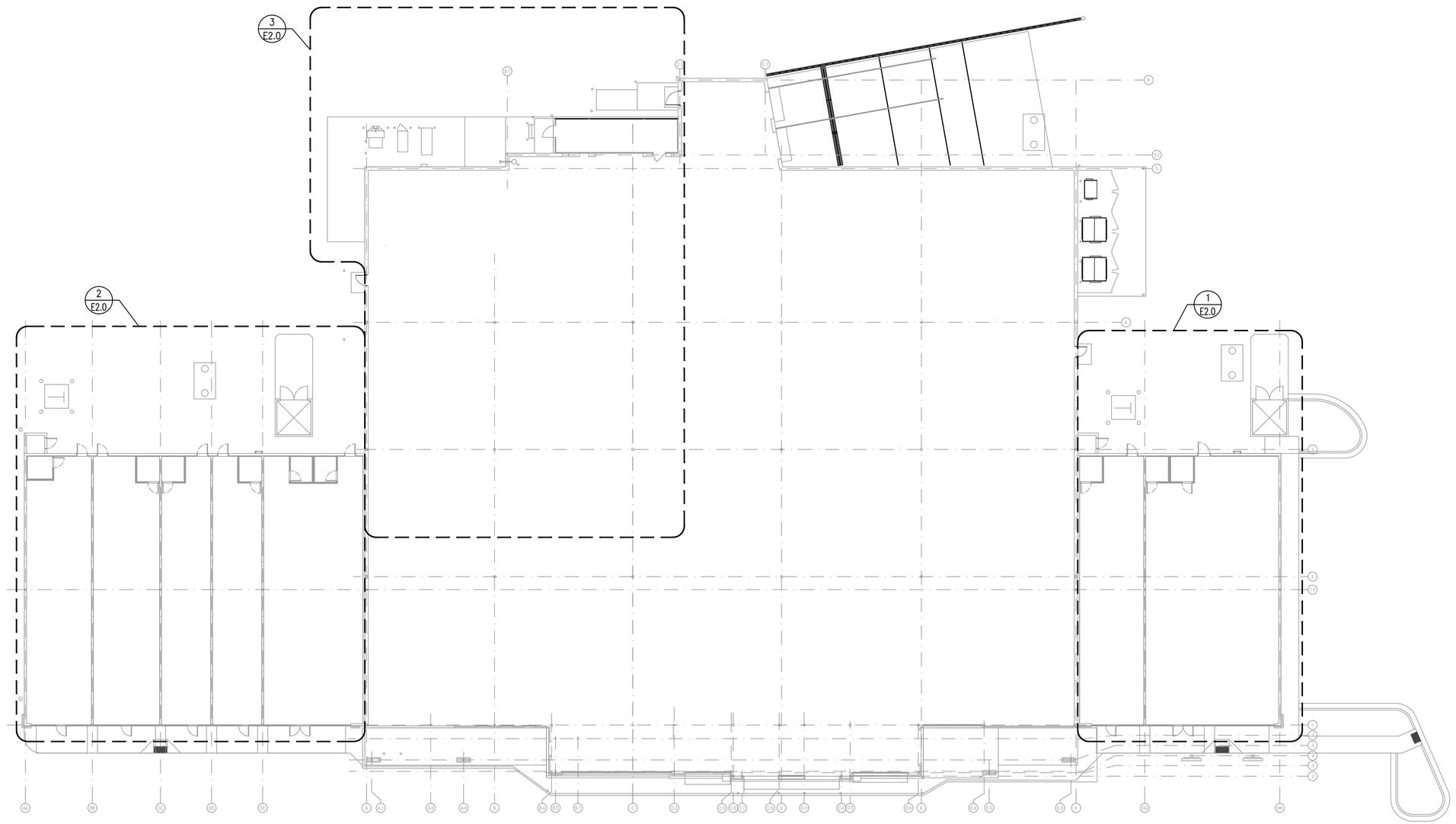
PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E0.1

General notes.dwg

CHECKED: GM DRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SET OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.



1 ELECTRICAL SITE PLAN SCALE: 1/16" = 1'-0"

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

UGE1.0

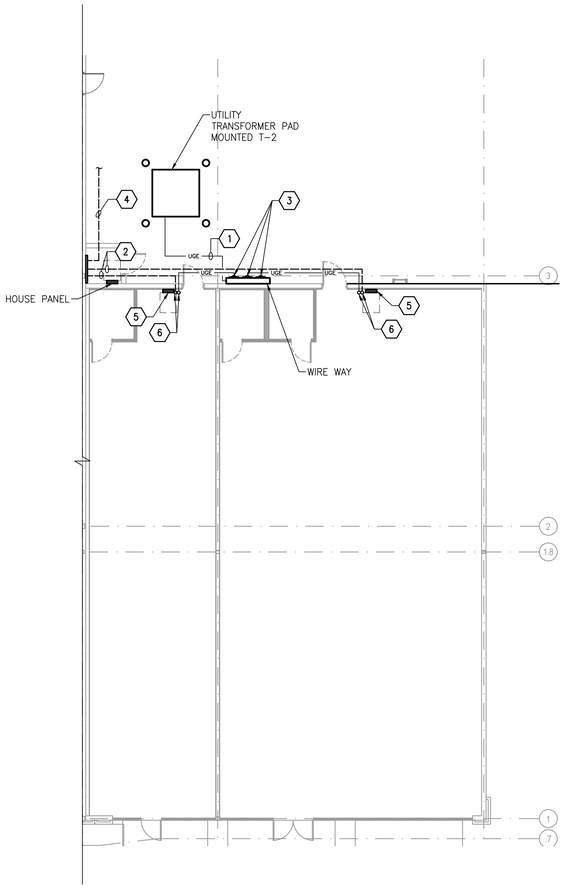
ELECTRICAL SITE PLAN

CHECKED: GMADRAWN: BJ

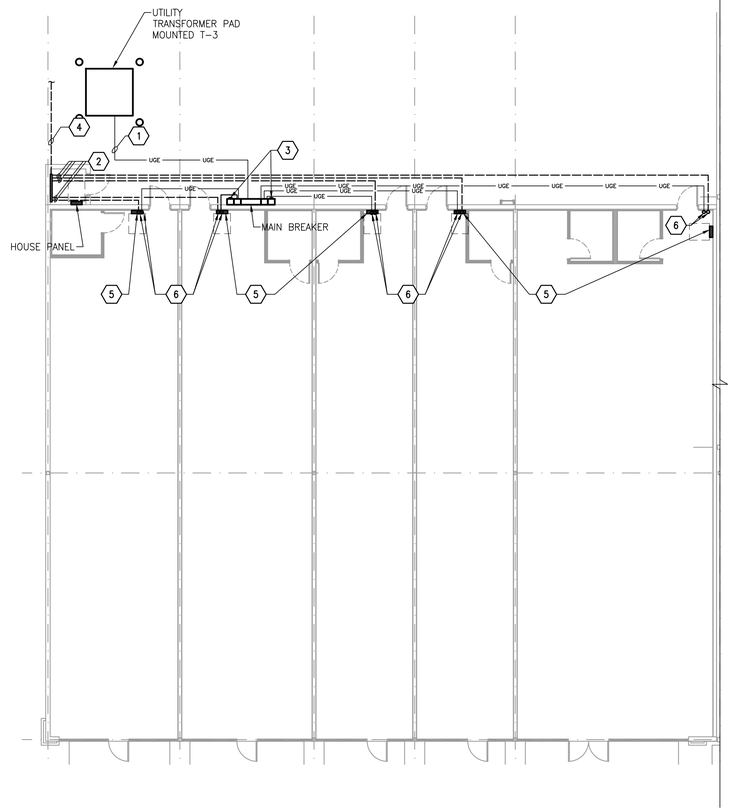
COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

ELECTRICAL KEY NOTES

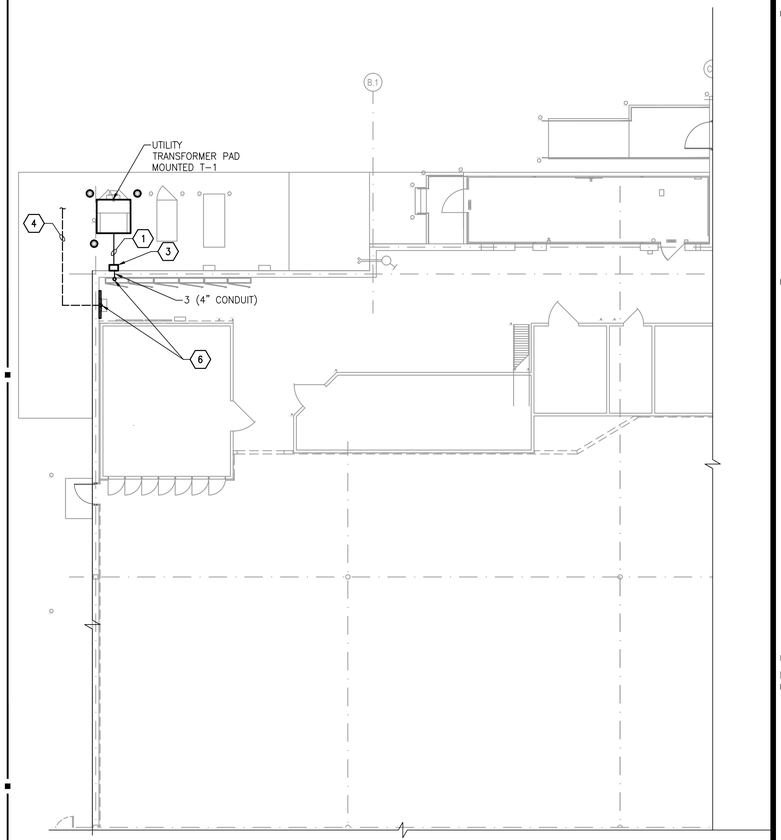
1. SECONDARY SERVICE FEEDER FROM UTILITY TRANSFORMER TO MAIN ELECTRICAL SERVICE. VERIFY EXACT REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION. SEE ELECTRICAL RISER DIAGRAM ON SHEET E4.0 FOR QUANTITY AND SIZE OF CONDUITS.
2. ONE 4" UNDERGROUND PVC CONDUIT WITH PULL STRING PER TELEPHONE UTILITY COMPANY'S SPECIFICATIONS AND REQUIREMENTS FOR TELEPHONE SERVICE. COORDINATE EXACT ROUTING AND STUB-UP LOCATION WITH TELEPHONE UTILITY COMPANY AND CLEARLY MARK STUB-UP LOCATION. STUB-UP LOCATIONS INDICATED ARE BASED ON INFORMATION THAT WAS AVAILABLE DURING DESIGN. SUBMIT A LINEAL FOOT UNIT PRICE WITH BID FOR ADDITIONAL CONDUIT, OF EACH SIZE AND TYPE INDICATED, IN THE EVENT THE FINAL UTILITY COMPANY DIRECTED STUB-UP LOCATION DIFFERS FROM WHAT IS INDICATE.
3. UTILITY METER ON BUILDING EXTERIOR PER LOCAL UTILITY COMPANY REQUIREMENT.
4. TWO 4" UNDERGROUND EMPTY CONDUIT WITH DRAG LINE TO TELEPHONE MANHOLE.
5. PROPOSED LOCATION OF FUTURE TENANT PANEL.
6. CONDUIT STUB-UP 24" ABOVE FLOOR



1 ELECTRICAL PLAN - ENLARGED NORTH UNITS -T-3 3/32" = 1'-0"



2 ELECTRICAL PLAN - ENLARGED SOUTH UNITS - T-2 3/32" = 1'-0"



3 ELECTRICAL PLAN - ENLARGED FOOD LION - T-1 3/32" = 1'-0"

NORTH

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

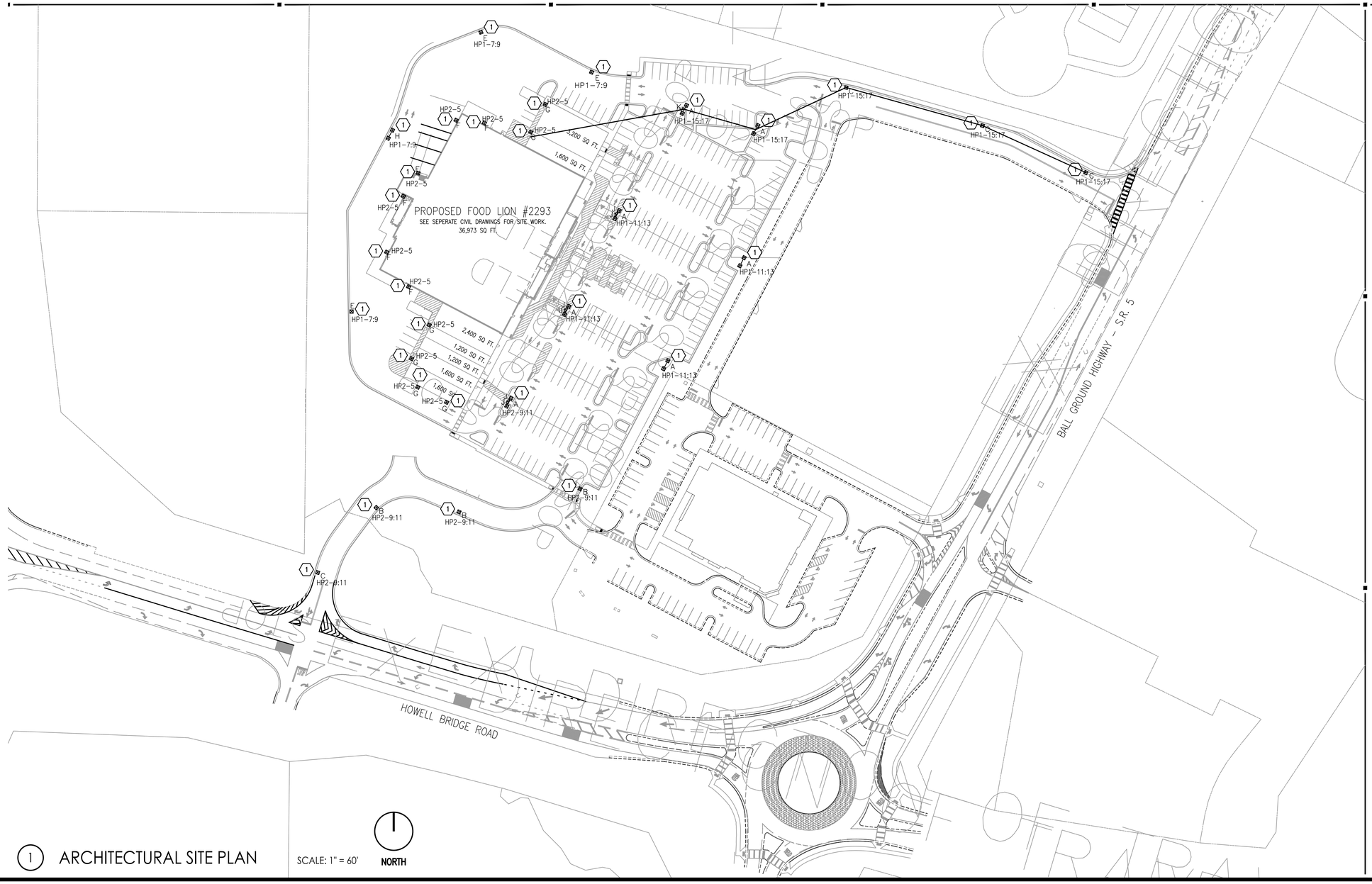
TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

UGE2.0
ELECTRICAL PLAN - ENLARGED

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.



1 ARCHITECTURAL SITE PLAN

SCALE: 1" = 60'

NORTH

GENERAL NOTES:

A. SERVICE CONDUCTORS ARE DESIGNED BASED ON THE SERVICE DISTANCE OF 100' TO MEET THE 2.5% VOLTAGE DROP PER NEC.
IF SERVICE CONDUCTOR IS BETWEEN:
a. 100' TO 150' –ELECTRICAL CONTRACTOR SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN SHOWN ON PLAN.
b. 151' TO 200' –ELECTRICAL CONTRACTOR SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN SHOWN ON PLAN.
c. 201' TO 250' –ELECTRICAL CONTRACTOR SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN SHOWN ON PLAN.

B. BRANCH CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 3% VOLTAGE DROP PER NEC.
IF BRANCH CONDUCTOR IS BETWEEN:
100' TO 150' –E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN
150' TO 200' –E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN
200' TO 250' –E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN.

KEYED NOTES

1. SITE LIGHTING FIXTURE SHALL BE CONTROL BY TIME CLOCK. REFER TO SHEET E5.1a FOR DETAILS.
2. REFER TO CIVIL DRAWINGS FOR SITE LIGHTING FIXTURE SPECIFICATIONS AND PHOTOMETRIC PLAN.

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

FOR REFERENCE ONLY

NO DATE REMARKS
REVISIONS

PHASE I & II –
BUILDING
DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

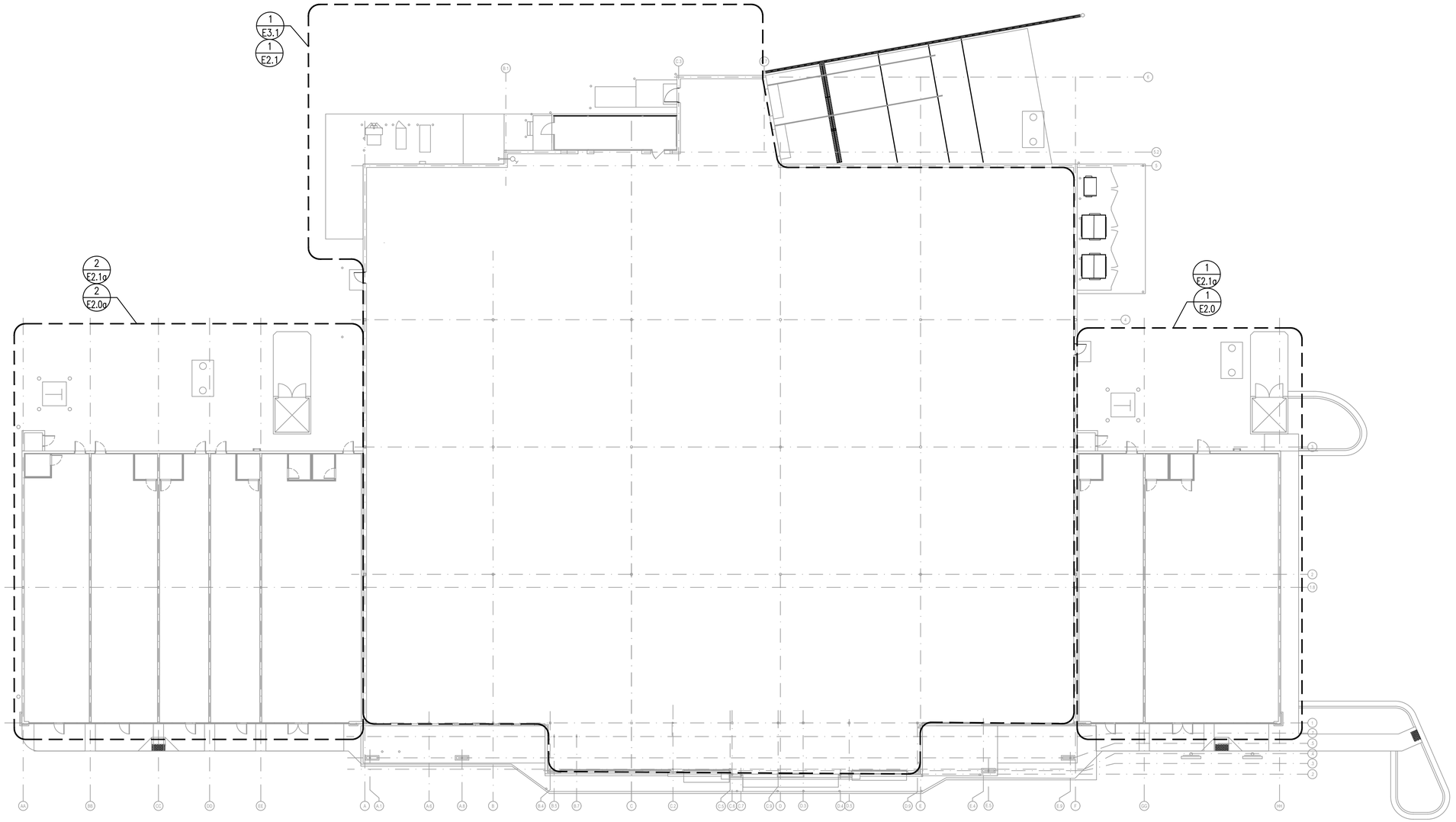
PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

UGE1.1
SITE LIGHTING PLAN

CHECKED: DNC DRAWN: WC

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

NOTES:
A. ELECTRICAL WORK SHOWN WITHIN THE SHADED/DELINEATED AREA IS PROVIDED FOR REFERENCE ONLY. REFER TO THE ENLARGED PART PLAN FOR COMPLETE ELECTRICAL INFORMATION, INCLUDING DEVICES, EQUIPMENT, CIRCUITING, AND INSTALLATION REQUIREMENTS. NO ELECTRICAL WORK IS IMPLIED IN AREAS NOT SPECIFICALLY SHOWN OR IDENTIFIED ON THE ENLARGED PART PLAN.



1 ELECTRICAL SITE PLAN SCALE: 1/16" = 1'-0"

NORTH

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II –
BUILDING
DEVELOPMENT

TIMBER
DEVELOPMENT
CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

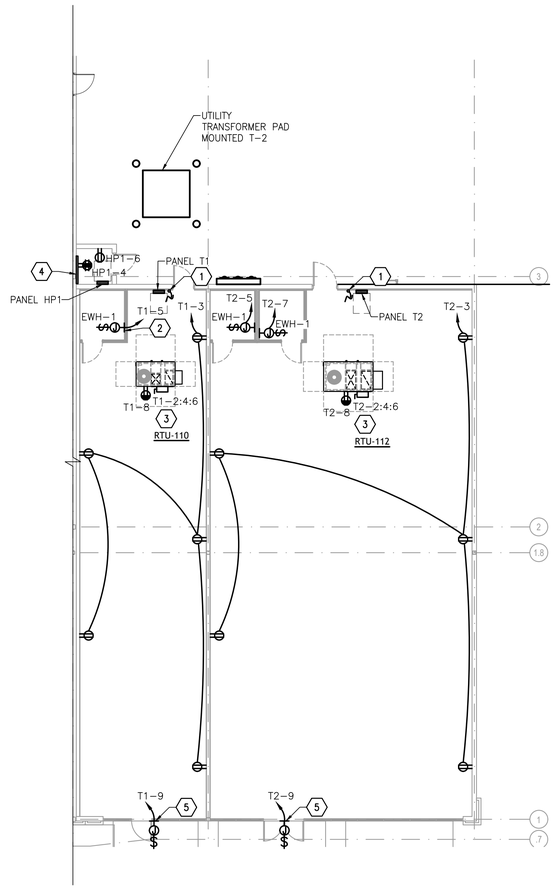
E1.1
ELECTRICAL FLOOR PLAN

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

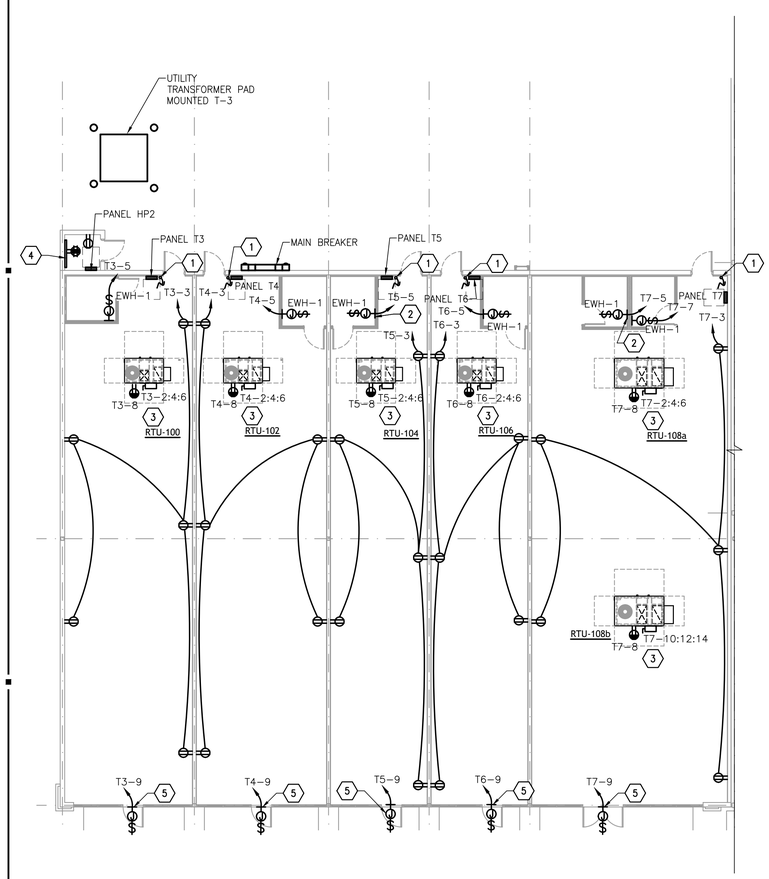
ELECTRICAL KEY NOTES

1. THE CONTRACTOR SHALL PROVIDE 2" EMPTY CONDUIT WITH DRAGLINE FROM LANDLORD'S TELEPHONE ROOM AND STUBBED AND BUSHED INTO ACCESSIBLE CEILING OF EACH TENANT'S SPACE FOR FUTURE COMMUNICATION USE. COORDINATE WORK WITH LANDLORD.
2. PROVIDE (1) JUNCTION BOX AND 1P MECHANICAL TYPE SWITCH FOR NEW WATER HEATER. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE 60A/3P-600V CIRCUIT BREAKER IN NEMA 1 ENCLOSURE AS MEANS OF DISCONNECT FOR THE RTU.
4. PROVIDE A 5'-0"X 5'-0"X3/4" UL-LABELED FIRE RETARDANT PLYWOOD BACKBOARD FOR TELECOMMUNICATION EQUIPMENT. PROVIDE TELECOMMUNICATION GROUND BAR MOUNTED ON BACKBOARD WITH EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO POWER SYSTEMS GROUNDING ELECTRODE.
5. PROVIDE WEATHERPROOF JUNCTION BOX FOR EXTERIOR SIGNAGE FOR TENANT SPACE.



1 ELECTRICAL PLAN - ENLARGED NORTH UNITS -T-3 3/32" = 1'-0"

NORTH



2 ELECTRICAL PLAN - ENLARGED SOUTH UNITS - T-2 3/32" = 1'-0"

NORTH

INTERPLAN

INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS

REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

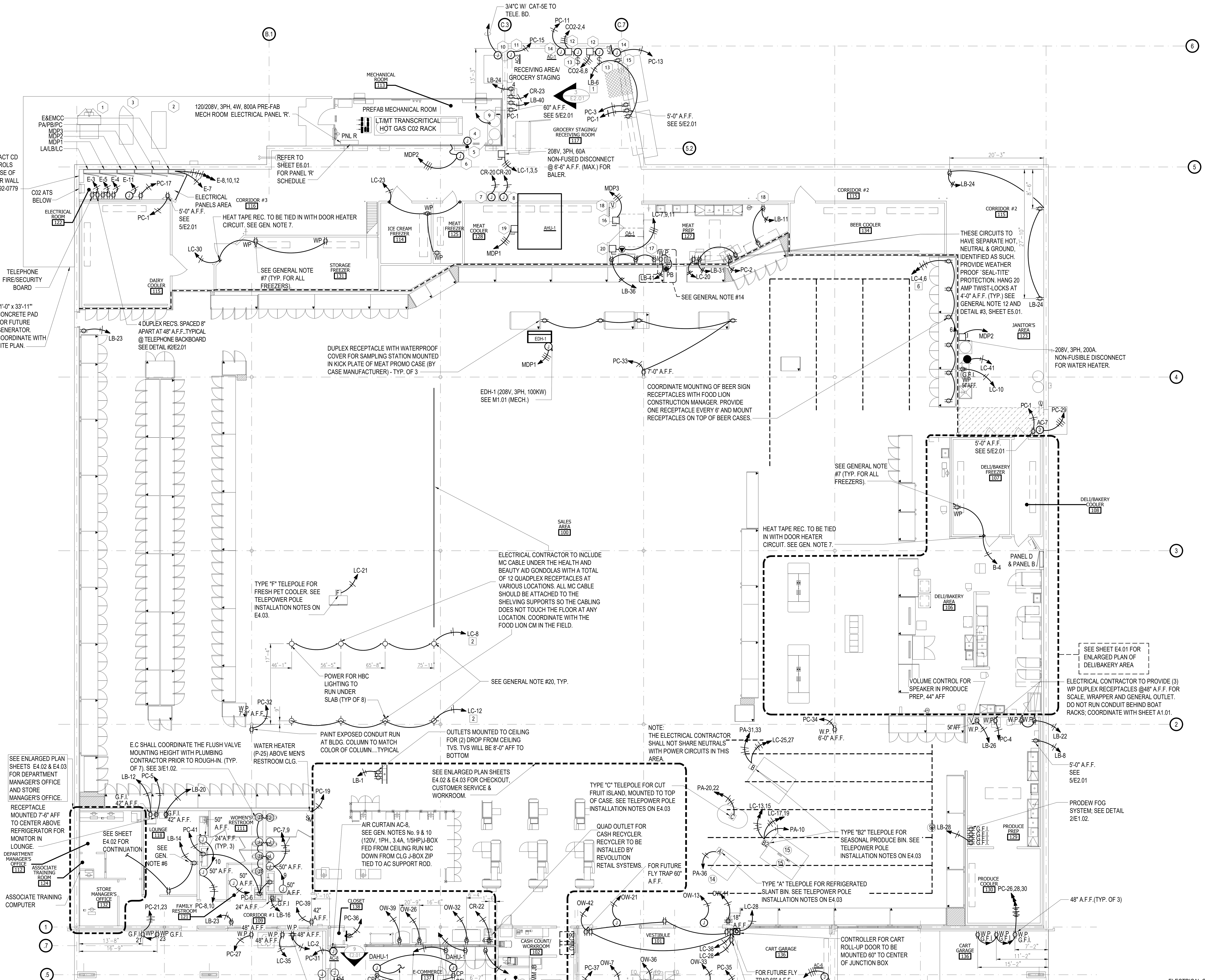
PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E2.0

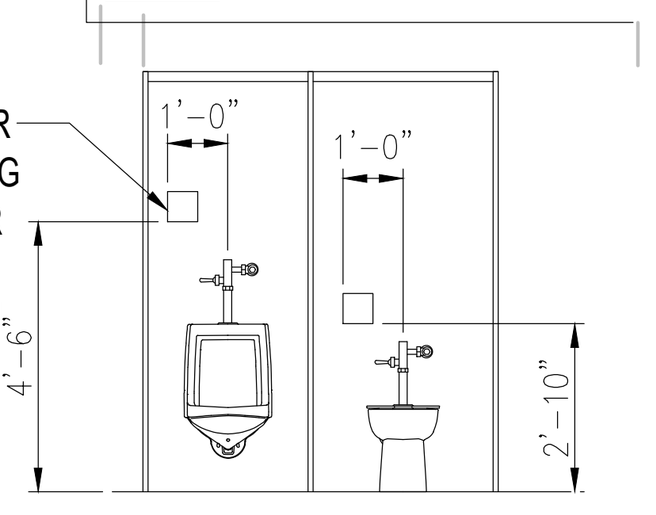
ELECTRICAL POWER PLAN - ENLARGED NORTH AND SOUTH UNITS

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.



01 ELECTRICAL POWER PLAN
SCALE: 3/32" = 1'-0"



03 FLUSH VALVE TRANSFORMER DETAIL
SCALE: 3/32" = 1'-0"

ELECTRICAL POWER PLAN GENERAL NOTES

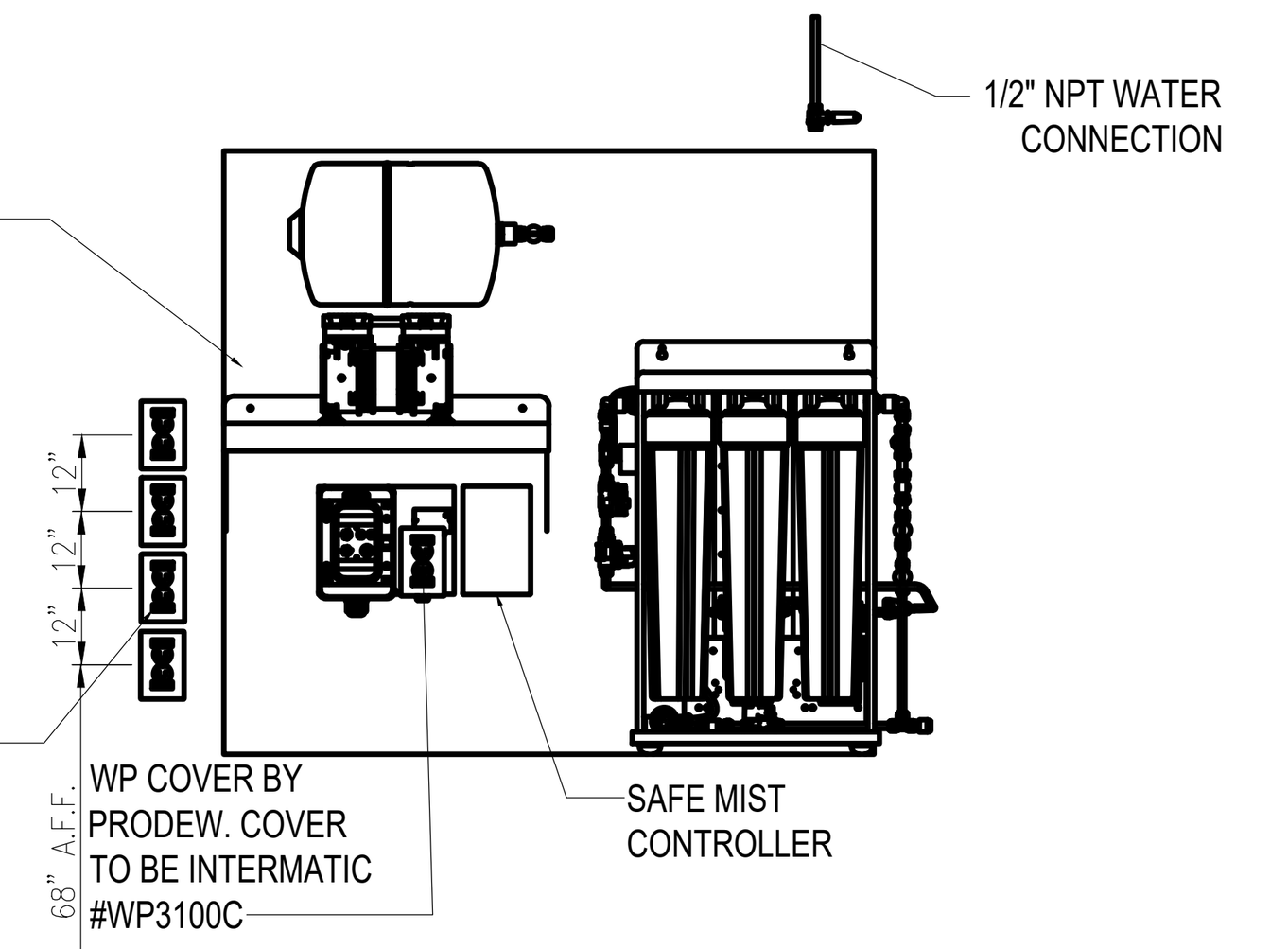
1. ALL RECEPTACLES IN PREP AREAS SHALL BE G.F.I. AND HAVE "IN-USE" WATERPROOF RECEPTACLE COVERS.
2. THE ELECTRICAL CONTRACTOR WILL NOT WIRE THE DOOR OPENER AND AIR CURTAIN ON THE SAME CIRCUIT.
3. DIMENSIONS FOR CONDUIT STUB-UPS IN SALES AREA ARE TO BE HELD WITHIN 1".
4. ANY EXPOSED CONDUIT IN PREP AREAS SHALL BE SECURELY FASTENED IN PLACE AS PER CODE.
5. TELEPOWER POLES TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. FINAL LOCATION TO BE COORDINATED WITH THE FOOD LION CONSTRUCTION MANAGER DURING TIME OR STORE SET. NOTE: TELEPOWER POLES TO BE CLEAR ANODIZED ALUMINUM. PROVIDE SUPPORTS AT BAR JOIST AND AT FIXTURE.
6. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED 16" A.F.F. UNLESS NOTED OTHERWISE.
7. THE CONDENSATION DRAIN HEAT TAPE RECEPTACLES FOR THE ICE CREAM FREEZER, STORAGE FREEZER, MEAT FREEZER AND DELI/BAKERY FREEZER SHALL BE INSTALLED TO CEILING NEAR THE DRAIN END OF EVAPORATOR AFTER THE EVAPORATOR HAS BEEN INSTALLED.
8. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A TWIST LOCK RUBBER CORDSET WITH A FEMALE END FROM THE DISCONNECT. THE DISCONNECT SHALL BE "HUBBELL" MODEL #HBLDS6 OR EQUAL.
9. THE MECHANICAL CONTRACTOR SHALL SUPPLY THE FLY FANS, FLY FAN MOUNTING BRACKETS AND MICRO-SWITCHES.
10. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE THE MICRO-SWITCH FOR FLY FAN CONTROL AND FINAL ELECTRICAL CONNECTIONS. ALL CONDUCTORS TO BE CONCEALED IN CONDUITS AND PAINTED TO MATCH. ALL CONDUITS FOR DISCONNECTS TO BE HIDDEN IN WALL. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR.
11. INSTALL A "KELLEMS" CABLE GRIP TO THE TWIST LOCK CORDSET. THE MALE END, ON THE MIXER/GRINDER, SHOULD BE A "NEMA-L21-30P" HUBBELL #HBL2811SW. THE FEMALE END, FROM THE DISC., SHALL BE "NEMA-L21-30R" HUBBELL #HBL2813SW. CORDSETS TO BE GRAY WITH BLACK SEAL SEAL-TITLE PROTECTORS.
12. TWIST-LOCK RUBBER CORDSETS ARE TO BE SUSPENDED FROM A BELL BOX OVER WEIGH/WRAP STATIONS. SEE FOOD LION CONSTRUCTION MANAGER FOR LOCATION. THE ELECTRICAL CONTRACTOR SHALL INSTALL A "KELLEMS" CABLE GRIP TO THE TWIST LOCK CORDSET. THE ELECTRICAL CONTRACTOR SHALL FURNISH BOTH MALE PLUG AND FEMALE RECEPTACLE (REPLACING THE MALE END FURNISHED WITH THE WEIGH/WRAP STATION). THE MALE END, ON THE WEIGH/WRAP STATION, SHOULD BE A "NEMA 5-20P" HUBBELL #HBL14W47HBK WITH A SEAL-TITLE COVER. THE FEMALE END SHALL BE A "NEMA 5-20R" HUBBELL #HBL15W47HBK WITH A SEAL-TITLE COVER. CORDSETS TO BE GRAY WITH BLACK SEAL-TITLE PROTECTORS.
13. THE PHONE COMPANY IS RESPONSIBLE FOR PHONE LINE TO FOOD LION'S TELEPHONE BACKBOARD.
14. MEAT PREP BELL: MAKE POWER CONNECTION TO PUSH BUTTON BESIDE MEAT PREP DOOR ABOVE ACCENT RAIL. PUSH BUTTON PLATE TO BE EDWARDS #147-1, STAINLESS STEEL WITH AN EDWARDS #690 PUSH BUTTON. PROVIDE 24V BELL, SEE SECTION 262726 OF SPECIFICATIONS. MOUNT 24V BELL @ 9'0" AFF INSIDE MEAT PREP.
15. PRODEW MISTING SYSTEM:
    - PRODEW WILL PROVIDE AND INSTALL ALL EQUIPMENT, CONNECTIONS AND PIPE FITTINGS, INCLUDING THE 48"X48" MOUNTING BOARD.
      - PRODEW TO PULL CABLE & 1/2" PEX WATER LINE.
      - GC TO PROVIDE FOUR (4) GFI/WP DUPLEX RECEPTACLES & CONDUIT.
      - SOLENOID/MANIFOLD BOX WILL HAVE DRAIN TO NEAREST HUB BY PRODEW.
16. GARDEN COOLER:
    B - EXIT LIGHT (12" BELOW CEILING)
    V - VOLUME CONTROL (44" AFF)
    G - CONVENIENCE OUTLET (18" AFF)
    H - WIFI ANTENNA (12" BELOW CEILING)
17. GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED BOXES AND CONDUIT IN THE MEAT PREP AND PRODUCE PREP WHITE.
18. GENERAL CONTRACTOR SHALL NOT INSTALL ANY JUNCTION BOXES/RECEPTACLES OR FIRE PULL STATIONS MOUNTED IN CONFLICT WITH THE ACCENT RAIL (SEE ARCH. DWGS)
19. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION REQUIREMENTS: PROVIDE GFCI PROTECTION IN STRICT ACCORDANCE WITH NEC SECTIONS 210.8(B), 210.8(D), AND 422.5. GFCI PROTECTION SHALL BE OF THE TYPE REQUIRED BY THE NEC FOR THE APPLICABLE RECEPTACLE, BRANCH CIRCUIT, OUTLET, OR APPLIANCE AS DICTATED BY THE GOVERNING CODE EDITION. CLASS A PERSONNEL PROTECTION (4MA-6MA TRIP THRESHOLD) SHALL BE PROVIDED AS MANDATED BY THE APPLICABLE NEC. WHERE CLASS A GFCI PERSONNEL PROTECTION IS REQUIRED, GROUND-FAULT PROTECTION OF EQUIPMENT (GFEP) OR OTHER EQUIPMENT-LEVEL PROTECTION SHALL NOT BE USED AS A SUBSTITUTE. THE CONTRACTOR SHALL CONFIRM ALL INSTALLATION REQUIREMENTS WITH THE MANUFACTURER'S SPECIFICATIONS, PRODUCT LISTINGS, AND LOCAL AMENDMENTS, AND COORDINATE FINAL INSTALLATION WITH THE AUTHORITY HAVING JURISDICTION (AHJ). IF GROUND FAULT TYPE RECEPTACLES ARE NOT AVAILABLE OR NOT READILY ACCESSIBLE, GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE CIRCUIT BREAKER. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL CONDUCTOR (NOT SHARED) TO OPERATE PROPERLY.
20. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 150' OF MC CABLE ATTACHED TO THE UNDERSIDE OF THE HEALTH AND BEAUTY AIDS SHELVING WITH 12 QUADPLEX RECEPTACLES AT VARIOUS LOCATIONS. LOCATION OF CABLING AND RECEPTACLES SHALL BE AS DIRECTED BY THE FOOD LION CONSTRUCTION MANAGER.
21. THE EXTERIOR OUTLET AND WATERPROOF COVERS ON THE FRONT SIDEWALK SHALL BE MOUNTED HORIZONTALLY.

EQUIPMENT SCHEDULE

NO.	DESCRIPTION
*** ELECTRIC CASES ***	
14	REFRIGERATED SLANT BIN CASE
15	REFRIGERATED HIGH BACK SLANT BIN CASE
*** ELECTRIC PREP EQUIPMENT ***	
99	PRODEW FOG SYSTEM
EMS LOAD REFER TO SHEET E6.03 FOR EMS LOAD SCHEDULE #	

ELECTRICAL POWER PLAN KEY NOTES

#	
1	CONCRETE PAD FOR LIGHTSERVE-EPS. COORDINATE LOCATION WITH SITE PLAN. LIGHTSERVE-EPS "QUICK CONNECT" PORTABLE GENERATOR SWITCH SHALL BE PROVIDED AND INSTALLED BY LIGHTSERVE-EPS COMPANY. GENERAL CONTRACTOR SHALL CONTACT LIGHTSERVE-EPS AT (919) 740-8319 PRIOR TO CONSTRUCTION IN ORDER TO COORDINATE INSTALLATION. REFER TO SHEETS E5.02 & E7.01 FOR CONDUITS SIZE AND CONDUCTORS.
2	PAD MOUNTED GENERAC GENERATOR. GENERATOR FURNISHED BY FOOD LION, INSTALLED BY THE ELECTRICAL CONTRACTOR. PAD BY GENERAL CONTRACTOR. COORDINATE WITH SITE PLAN FOR EXACT LOCATION.
3	PAD MOUNTED TRANSFORMER WITH ELECTRIC METER. COORDINATE WITH SITE PLAN AND UTILITY COMPANY FOR EXACT LOCATION, REQUIREMENTS AND CONDUITS SIZE. REFER TO SHEETS E5.02 & E7.01 FOR SECONDARY CONDUITS SIZE AND CONDUCTORS.
4	ELECTRICAL CONTRACTOR SHALL RUN 3/4" CONDUIT FROM JUNCTION BOX DOWN WALL AND STUB THRU WALL PANEL AT 48" A.F.F. (APPROX). 4"x4" JUNCTION BOX SUPPLIED WITH MECHANICAL ROOM, MOUNTED ABOVE DOOR.
5	OCCUPATION OVERRIDE AND BREAK GLASS STATION PROVIDED BY THE MECHANICAL ROOM MANUFACTURER AND MOUNTED AND WIRED BY THE ELECTRICAL CONTRACTOR.
6	ELECTRICAL SERVICE ENTRANCE CHASE AT 5'-4" A.F.F.
7	4x4 JUNCTION BOX, MOUNTED 12'-0" A.F.F. FOR MDF POWER
8	4x4 JUNCTION BOX, MOUNTED 12'-0" A.F.F. FOR IDF POWER
9	RECLAIM WATER HEATERS TO BE ON PANEL "R".
10	4" SQUARE J.B. @48" AFF FOR INTERCOM (FLUSH MOUNT INTO MASONRY).
11	AIR CURTAIN AC-3, SEE GEN. NOTES No. 9 & 10 (120V, 1PH., 7.5A, 3/4 HP) J-box FED FROM CEILING RUN MC DOWN FROM CLG J-BOX ZIP TIED TO AC SUPPORT ROD.
12	208V, 1PH, 30A, NEMA 1 FUSIBLE DISCONNECT FUSED AT 30A FOR HYDRAULIC PIT LEVELER. RUN POWER UNDERSLAB.
13	PROVIDE WALL SWITCH FOR LEVELER OPERATION AND ALL ASSOCIATED CONTROL WIRING AND CONDUIT AS NEEDED PER MANUFACTURER'S DATA SHEET. RUN POWER, UNDERSLAB, TO PIT LEVELER.
14	AIR CURTAIN AC-1 & AC-2, SEE GEN. NOTES No. 9 & 10 (120V, 1PH., 13A, 2 @ 1/2 HP) J-BOX FED FROM CEILING RUN MC DOWN FROM CEILING J-BOX ZIP TIED TO AC SUPPORT ROD.
15	RECEPTACLE FOR DOCK LIGHT 72" A.F.F. ("N1" FIXTURE) TYPICAL OF 2.
16	UNIT MOUNTED 208V, 3PH FUSIBLE DISCONNECT FOR FOR 2 HP. OA-1 .....SEE MECH. DWGS.
17	RECEPTACLES AT PREP TABLES TO BE WP/GFI & MOUNTED @ 45" AFF (TYP.)
18	VOLUME CONTROL FOR SPEAKER & RECEPTACLE @44" AFF.
19	UNIT MOUNTED 208V, 3PH FUSIBLE DISC. FOR 15 HP. AHU-1 ABOVE COOLER. SEE MECH. DWGS.
20	208V, 3PH, 60A. NON-FUSIBLE WP DISCONNECT AT 5'-6" A.F.F. FOR MIXER/GRINDER. SEE NOTES 8 & 11. HANG TWIST LOCK 48" A.F.F.



02 FOG SYSTEM DETAIL
SCALE: NTS

FOOD LION PLAN SHOWN IN PHASE II FOR JURISDICTION REFERENCE

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E2.1
ELECTRICAL POWER PLAN - FOOD LION

CHECKED: GMA DRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

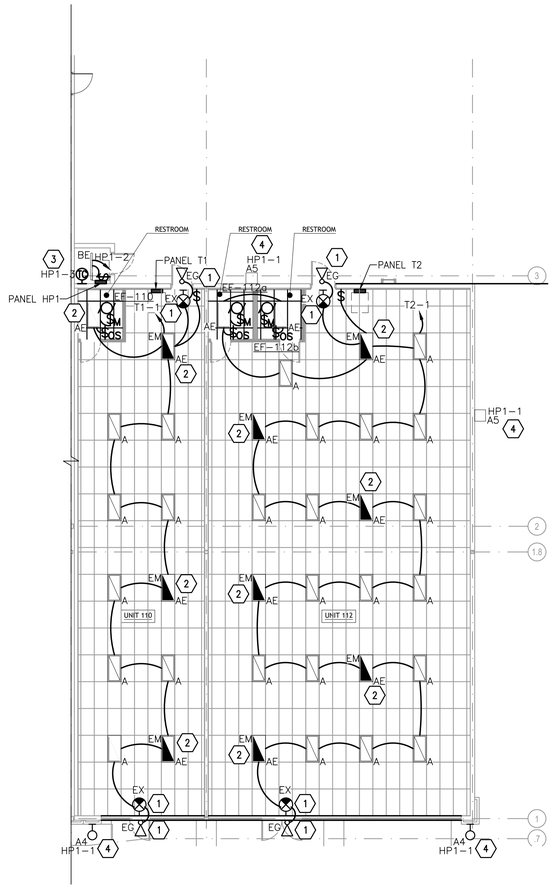
LIGHT FIXTURE SCHEDULE

TYPE	MFG.	PART NO.	DESCRIPTION	VOLTAGE	FIXTURE WATTAGE
A	LITHONIIA	CPX 2X4 4000LMHE 80CRI 35K SWL	2' X 4' FLAT PANEL LED	120	35
AE	LITHONIIA	CPX 2X4 4000LMHE 80CRI 35K SWL WITH BATTERY BACKUP	2' X 4' FLAT PANEL LED FIXTURE	120	35
A4	HI-LITE MFG	H-15312-B-118/6/LED4/35/BCM-M *850 LUMENS-3500K *118-PAINTED ALUMINUM FINISH	LED EXTERIOR SCONCE LIGHT, WAREHOUSE SHADE COLLECTION GOOSENECK	120	21
A5				120	
B	LITHONIIA	CLX L48 4000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	4' LED STRIP LIGHT	120	24
BE				120	24
EG	LITHONIIA	WLTU GY MR	EXTERIOR WALL MOUNTED EGRESS EMERGENCY FIXTURE WITH BATTERY PACK	120	2
EX	NORA LIGHTING	NEX-730-LED-R	EXIT/CEILING MOUNT, 90 MINUTE BATTERY BACK-UP, WHITE, RED LETTERS	120	5
EM	LITHONIA LIGHTING	EU2C HO M6	(2) LED ADJUSTABLE LAMPS. WHITE THERMOPLASTIC HOUSING (MOUNTING AS INDICATED ON PLAN)	120	1

ADDITIONAL NOTES:
1. EMERGENCY BALLASTS IN EMERGENCY LIGHTS, NIGHT LIGHTS, AND EXIT SIGNS SHALL BE WIRED AHEAD OF ALL LOCAL CONTROL (NOT SWITCHED)THE EMERGENCY BALLASTS SHALL PROVIDE A MINIMUM OF NINETY (90) MINUTES OF CODE REQUIRED EMERGENCY LIGHTING. EACH EMERGENCY BALLAST PROVIDED SHALL PRODUCE THE MAXIMAM LUEN OUTPUT AVAILABLE FOR THE LAN USED. EMERGENCY LIGHTING BALLASTS SHALL BE BODINE OR APPROVED EQUAL.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND/OR ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LIGHT FIXTURE REQUIRED FOR THE CEILING CONSTRUCTION PRIOR TO ORDERING THE FIXTURES & PROVIDE FIXTURES THAT ARE COMPATIBLE WITH THE CEILING SYSTEM.
3. ALL FIXTURES ARE TO BE ORDERED BY E.C.
4. EXIT SIGNS COMPLYING WITH 101:5-10 SHALL DEFINE EXITS AND ACCESS TO EXITS WHERE THE EXIT IS NOT IMMEDIATELY APPARENT.

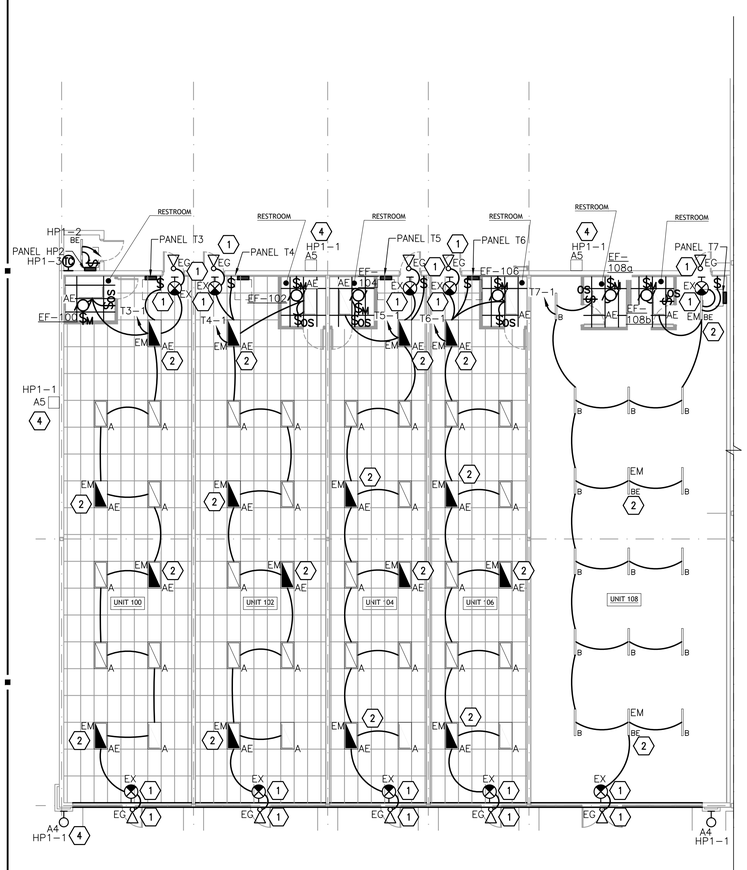
ELECTRICAL KEY NOTES

1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW EXIT LIGHT AND EGRESS LIGHTS AT ALL EXITS AS REQUIRED BY LOCAL CODES. EXIT AND EGRESS LIGHTS SHALL BYPASS SWITCH CONTROL(S).
2. CONNECT ALL EMERGENCY LIGHTS TO CIRCUIT SHOWN (SWITCHED EMERGENCY).
3. PROVIDE AND INSTALL TIME CLOCK. REFER TO DETAIL 5 ON SHEET E4.0 FOR CONTROL WIRING DIAGRAM.
4. EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED WITH TIME CLOCK.



1 ELECTRICAL PLAN - ENLARGED NORTH UNITS -T-3 3/32" = 1'-0"

NORTH



2 ELECTRICAL PLAN - ENLARGED SOUTH UNITS - T-2 3/32" = 1'-0"

NORTH

4 HP1-1 A5

INTERPLAN

INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS

REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E3.0

ELECTRICAL LIGHTING PLAN – ENLARGED NORTH AND SOUTH UNITS

CHECKED: GM DRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVED COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

NOTE: THE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF ALL LIGHT FIXTURES AND CEILING MOUNTED EVAPORATORS IN PREP AREAS. TYPICAL

NOTE: REFER TO SHEET ESL-1 FOR FIXTURE TYPE AND CIRCUITING FOR ALL SITE LIGHTING.

FOR LIGHTING IN ATTIC SPACE ABOVE WORKROOM AND VESTIBULE, SEE DETAILS 3 AND 4 ON THIS SHEET.

ELECTRICAL CONTRACTOR TO EXTEND CIRCUITS FROM THE GENERATOR SUBPANEL TO THE SALES AREA LIGHTING CIRCUITS AND THE GROCERY STAGING LIGHTING CIRCUITS

ELECTRICAL LIGHTING PLAN LEGEND

SYMBOL	DESCRIPTION
	EMERGENCY LIGHTS
	LIGHTS
	NIGHT LIGHTS
	EXIT SIGNS
	ENERGY MANAGEMENT LOAD NUMBER
	EMERGENCY LIGHTS
	EMERGENCY LIGHTS
XX	ENERGY MANAGEMENT LOAD NUMBER

DRAWING LIST

E1.01 ELECTRICAL LIGHTING PLAN
E1.01a ELECTRICAL LIGHT FIXTURE LOCATION PLAN
E1.02 ELECTRICAL POWER PLAN
E1.03 REFRIGERATION WIRING PLAN
E1.03A ELECTRICAL REFRIG. COMMUNICATION PLAN
E1.04 SECURITY PLAN
E1.05 FIRE SYSTEM PLAN
E1.06 COMMUNICATION PLAN
E1.07 ROOF ELECTRICAL PLAN
E2.01 ELECTRICAL ELEVATIONS
E4.01 DELI/BAKERY ELECTRICAL POWER PLAN
E4.02 WORKROOM & REGISTER POWER PLAN
E4.03 WORKROOM & REGISTER COMMUNICATION PLAN
E5.01 ELECTRICAL DETAILS
E5.02 ELECTRICAL ONE LINE DIAGRAM
E5.03 ELECTRICAL CONTROLS DIAGRAM
E6.01 ELECTRICAL PLAN SCHEDULES
E6.02 ELECTRICAL SCHEDULES & DIAGRAMS
E6.03 EMS LOAD & DIMMING SCHEDULE
E7.01 LIGHTSERVE - EPS PLANS & DETAILS
E8.0 ENERGY CALCULATIONS
ESL-1 ELECTRICAL SITE PLAN

REFER TO COVER SHEET FOR NATIONAL ACCOUNTS CONTACTS AND RESPONSIBILITY SCHEDULE.

ELECTRICAL LIGHTING PLAN GENERAL NOTES

1. JANITOR AND RESTROOMS FANS SHALL BE WIRED TO RUN CONTINUOUSLY DURING STORE OPERATING HOURS. REFER TO SHEET SHEET E1.07 FOR POWER CONNECTIONS TO HVAC EQUIPMENT. NOTE: NOT TO BE SWITCHED OPERATED.
2. LIGHT FIXTURES IN GROCERY STAGING/RECEIVING AREA SHALL BE HUNG FROM BAR JOISTS AT 10'-0" A.F.F.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING THE CONDUIT & WIRING FOR THE FREE STANDING FOOD LION, PYLON SIGN. THIS SIGN SHALL BE POWERED OFF APPROPRIATE PANEL IN EQUIPMENT RM. ALL SHOPPING CENTER SIGNS SHALL BE POWERED FROM THE HOUSE PANEL. FOR FL STORES ONLY.
4. ALL LIGHTING FIXTURES SHALL BE FURNISHED BY WESCO LIGHTING SERVICES AND INSTALLED BY THE ELECTRICAL CONTRACTOR (UNLESS OTHERWISE NOTED).
5. EMERGENCY & EXIT LIGHTS SHOWN ARE A MINIMUM. ENGINEER OF RECORD SHALL PROVIDE EMERGENCY LIGHT FIXTURES IN ACCORDANCE WITH LIFE SAFETY CODE 101 SECTION 5-9.
6. THE FOOD LION STOREFRONT SIGN IS FURNISHED & INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE PIG-TAILS, WIRE STOREFRONT SIGN AND WIRE TO APPROPRIATE CIRCUITS.
7. ALL JUNCTION BOXES LOCATED IN COOLERS & FREEZERS ARE TO BE WEATHERPROOF. AFTER WIRING IS COMPLETE, SEAL ALL PENETRATIONS PER NEC 370-15. (SEAL TO PREVENT ANY AIRFLOW.)
8. ALL EXTERIOR LIGHTING SHALL BE ON DEDICATED CIRCUITS.
9. ALL LIGHT SWITCHES ARE TO BE MOUNTED 44" A.F.F. TO THE CENTER OF THE BOX.
10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR RUNNING ALL WIRING TO PANELS & CONNECTION OF ALL FIXTURES.
11. ALL WIRING SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. STANDARDS AND WITH FOOD LION STANDARDS. NO SLOPPY OR HAZARDOUS WORK WILL BE ACCEPTED, NO COLOR CHANGES IN WIRE RUNS, MISLABELED CIRCUITS, ETC.
12. ELECTRICAL CONTRACTOR IS TO MAKE SURE THAT NO MC OR FLEX CABLES ARE USED UNLESS OTHERWISE NOTED. MC OR FLEX CABLES CAN ONLY BE USED IN SHORT RUNS FOR LIGHTING FEEDS. EMT MUST BE USED TO CONNECT PANEL TO JUNCTION BOX AND HAVE COMPRESSION TYPE FITTING. SEE SPECIFICATIONS FOR STANDARDS PRACTICES.
13. ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL END CAPS ON BOTH ENDS OF EVERY LIGHT FIXTURE RUN. NO END CAPS SHALL BE INSTALLED BETWEEN TWO ADJOINING FIXTURES.
14. ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL JUNCTION BOXES ABOVE BAR JOISTS.
15. TYPE "E" FIXTURES OVER CHECK-OUT AND ABOVE SALES AREA FLOOR SHALL MATCH SLOPE OF ROOF AND MOUNTED LEVEL WITH THE BOTTOM CHORD OF THE BAR JOISTS.
16. "NL" INDICATES FIXTURES ON A NIGHT LIGHT CIRCUIT.
17. DECOR CONTRACTOR TO INSTALL AMERLUX SYSTEM. ELECTRICAL CONTRACTOR SHALL POWER AMERLUX SYSTEM.

ENERGY MANAGEMENT NOTES

#	
1	THE ENERGY MANAGEMENT CONTROL CABINET WITH ENVIRONMENTAL CONTROL PANEL SHALL BE PURCHASED FROM SESCO BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PHONE: 1-888-996-2220.
2	ALL CONTRACTORS ARE LABELED PER LOAD NUMBER & MUST BE CROSS REFERENCED WITH THE INDICATED ENERGY MGMT LOAD NUMBERS TO OBTAIN CORRECT INSTALLATION. MAINTAIN ALPHABETICAL AND NUMERICAL ORDER IN BREAKING YOUR CIRCUITS ACROSS EACH LOAD.
3	ALL WIRING WILL BE NEAT & TIE-WRAPPED. EACH CIRCUIT TO LABELED ON THE LINE & LOAD SIDE OF EACH CONTACTOR. MAKE SURE ALL TERMINATIONS ARE CENTERED AND SECURE.
4	ANY ADDITIONAL CONDUCTORS IN AN ENERGY MGMT JUNCTION BOX SHALL BE NEATLY ROUTED TO EXTREME EDGE OF THE ENCLOSURE.
5	ALL COOLER & FREEZER LIGHTING CIRCUITS SHALL BE BROKEN ACROSS LOAD #1 ON 18"X18" CONTACTOR SCREEN & VERIFIED (NO HEAT TAPE RECEPTACLES, DOOR HEATERS OR FANS WILL BE ALLOWED ON THESE CIRCUITS.)
6	CONTROL OF ANY CIRCUIT WHICH IS A DEVIATION FROM THE FOOD LION STANDARD SHALL BE ADDRESSED BY THE ELECTRICAL CONTRACTOR THROUGH COORDINATION WITH FOOD LION ENERGY MANAGEMENT REPRESENTATIVE.
7	ALL CASE LIGHTING CIRCUITS SHALL BE BROKEN ACROSS LOAD #6 ON 18"X18" CONTACTOR SCREEN & VERIFIED (NO FANS OR ANTI-SWEATS).
8	RECLAIM WATER HEATERS LOCATED IN MECHANICAL ROOM SHALL BE BROKEN ACROSS THEIR INDIVIDUAL LOAD #12 CONTACTORS.
9	LIGHT FIXTURE TO BE PROVIDED WITH REMOTE LED EMERGENCY DRIVER. ELECTRICAL CONTRACTOR TO PROVIDE A REMOTE EMERGENCY LED DRIVER, IOTA - ILB CP 10A.

ELECTRICAL LIGHTING PLAN KEY NOTES

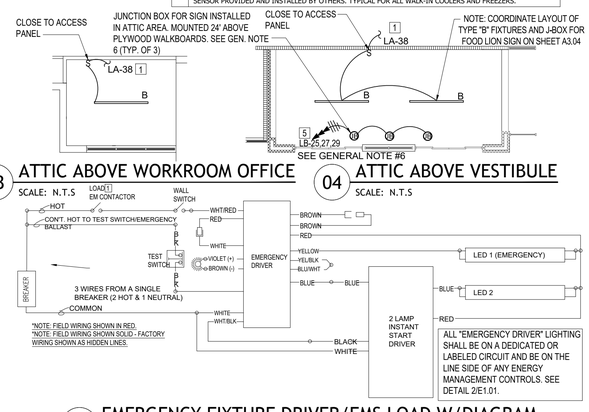
#	
1	LIGHT FIXTURE TO BE PROVIDED WITH REMOTE LED EMERGENCY DRIVER. ELECTRICAL CONTRACTOR TO PROVIDE A REMOTE EMERGENCY LED DRIVER, IOTA - ILB CP 10A.
2	NOT USED.
3	4"x4" J-BOX MOUNTED ABOVE DOOR INSIDE LOUNGE FOR OCCUPANCY SENSOR (SENSOR BY OTHERS).
4	REFER TO DETAIL 3 & 4 ON THIS SHEET.
5	CONNECTION FOR AMERLUX BY ELECTRICAL CONTRACTOR. AMERLUX PROVIDED AND INSTALLED BY VENDOR.
6	TYPE "B1" FIXTURE TO TIE INTO AN OCCUPANCY SENSOR ABOVE COOLER TO SERVICE MECHANICAL EQUIPMENT.
7	4"x4" J-BOX MOUNTED ABOVE DOOR INSIDE WALK-IN BY ELECTRICAL CONTRACTOR FOR OCCUPANCY SENSOR. SENSOR PROVIDED AND INSTALLED BY OTHERS. TYPICAL FOR ALL WALK-IN COOLERS AND FREEZERS.

REF:
REFER TO SHEET E6.02 STRATEGY LIGHT FIXTURE SCHEDULE FOR SPECIFIC LIGHT INFORMATION.

ILB CP10 A EMERGENCY BALLAST FOR FIXTURE S1 WHEN NEEDED

01 ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"

02 EMERGENCY FIXTURE DRIVER/EMS LOAD W/DIAGRAM
SCALE: 3/32" = 1'-0"



03 ATTIC ABOVE WORKROOM OFFICE
SCALE: N.T.S

04 ATTIC ABOVE VESTIBULE
SCALE: N.T.S

FOOD LION PLAN SHOWN IN PHASE II FOR JURISDICTION REFERENCE

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E3.1
ELECTRICAL LIGHTING PLAN-FOOD LION

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

GENERAL NOTES

A. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

B. IF THE EXISTING INSTALLATION DOES NOT MEET THE MINIMUM CRITERIA NOTED ON THE EXISTING RISER DIAGRAM AND WITHIN THE PANEL SCHEDULES, THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY MODIFICATIONS TO BRING THE EXISTING INSTALLATION INTO COMPLIANCE WITH THE MINIMUM SIZES AND/OR RATINGS INDICATED THEREIN AND INCLUDE THE COST OF ANY REQUIRED MODIFICATIONS IN THE INITIAL BID.

C. POST-BID ADDITIONAL COSTS RESULTING FROM AN EXISTING INSTALLATION THAT DOES NOT MEET THE MINIMUM CRITERIA INDICATED WILL NOT BE PERMITTED.

D. IF THE EXISTING INSTALLATION MEETS OR EXCEEDS THE MINIMUM CRITERIA INDICATED, MODIFICATIONS OF THE EXISTING INSTALLATION ARE NOT REQUIRED.

E. PROVIDE ARC-FLASH WARNING MARKINGS (FACTORY OF FIELD APPLIED) TO PANELS, DISCONNECTS AND METERS PER NEC 110.16 AND 110.21(B).

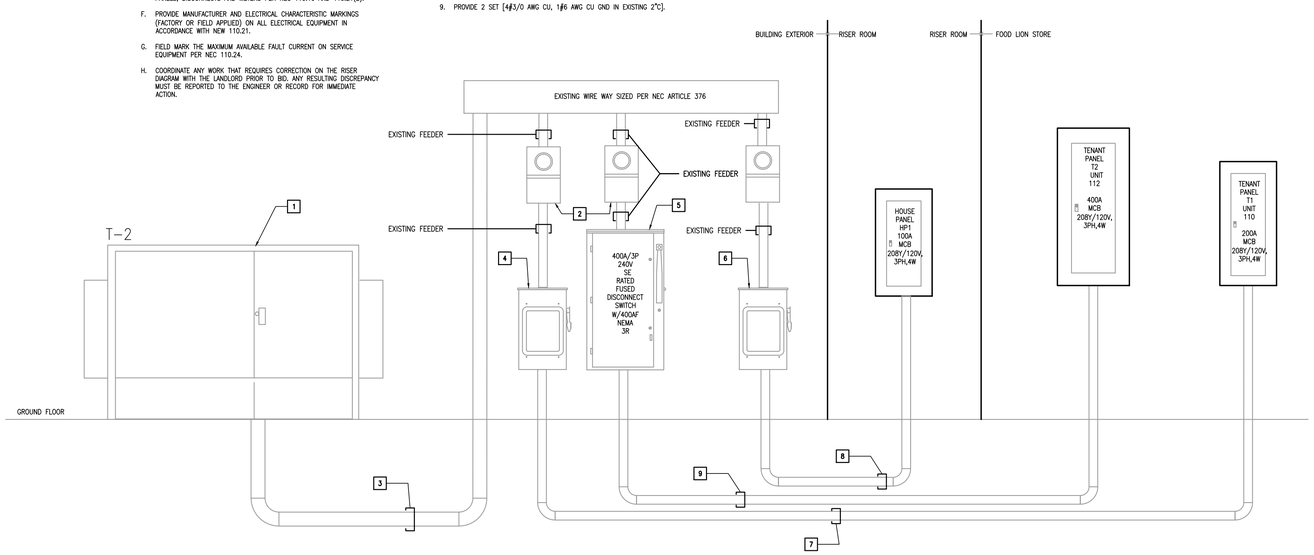
F. PROVIDE MANUFACTURER AND ELECTRICAL CHARACTERISTIC MARKINGS (FACTORY OR FIELD APPLIED) ON ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEW 110.21.

G. FIELD MARK THE MAXIMUM AVAILABLE FAULT CURRENT ON SERVICE EQUIPMENT PER NEC 110.24.

H. COORDINATE ANY WORK THAT REQUIRES CORRECTION ON THE RISER DIAGRAM WITH THE LANDLORD PRIOR TO BID. ANY RESULTING DISCREPANCY MUST BE REPORTED TO THE ENGINEER OR RECORD FOR IMMEDIATE ACTION.

KEYED NOTES [X]

1. EXISTING PAD MOUNTED TRANSFORMER. SIZED PER UTILITY COMPANY.
2. EXISTING UTILITY METER. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.
3. EXISTING SECONDARY SERVICE FEEDER.
4. EXISTING SE RATED FUSED DISCONNECT 200A/3P, 240V, NEMA 3R, WITH 200AF
5. EXISTING SE RATED FUSED DISCONNECT 400A/3P, 240V, NEMA 3R, WITH 400AF
6. EXISTING SE RATED FUSED DISCONNECT 100A/3P, 240V, NEMA 3R, WITH 100AF
7. PROVIDE [4]#3/0 AWG CU, 1]#6 AWG CU GND IN EXISTING 2"C].
8. PROVIDE [4]#3 AWG CU, 1]#6 AWG CU GND IN EXISTING 1-1/4"C].
9. PROVIDE 2 SET [4]#3/0 AWG CU, 1]#6 AWG CU GND IN EXISTING 2"C].



1 ELECTRICAL RISER DIAGRAM - T-2
N.T.S

FAULT CURRENT CALCULATION

TRANSFORMER SIZE (KVA)		800
TRANSFORMER Z (%)		5.3
"C" FACTOR (#600 KCMIL COND.)		20,093
NUMBER OF CONDUCTORS PER PHASE		9
LINE TO LINE VOLTAGE		208
LINE TO NEUTRAL VOLTAGE		120
LENGTH OF SERVICE		100
I=	800 X 1000 / 1.73 X 208	= 2,221
I(sca)=	2221 X 100 / 5.25	= 42,297
F=	42,297 X 1.73 X 100 / 9 X 20,093 X 208	= 0.19
M=	1 / 1+0.19 = 1 / 1.19	= 0.84
Isc AT SERVICE DISCONNECT=	42,297 X 0.84	= 35,482
MAXIMUM AVAILABLE FAULT CURRENT	=	48251.00 AMPERES
☐ FURNISHED BY UTILITY COMPANY ON DATE	=	XX.XX.XXXX
☑ CALCULATED BY ENGINEER ON DATE	=	10.29.2026

ANY CHANGES TO THE SUPPLY POWER, OR INTERNAL ELECTRICAL SYSTEM, THAT COULD CAUSE THIS UTILITY FURNISHED OR CALCULATED VALUE TO INCREASE, SHALL BE EVIDENCE THAT A QUALIFIED PERSON REPEAT THE CALCULATIONS AND MAKE ADJUSTMENTS TO THE SYSTEM IF REQUIRED.
(AFTER REVISIONS, CHANGE THIS LABEL TO REFLECT REVISED DATA AND NEW DATE.)
PLACE ON A VISIBLE SURFACE OF THE SERVICE ENTRANCE DISCONNECT.
USE A LABEL THAT HAS MINIMUM 1/8 HIGH LETTERING AND SUITABLE FOR THE ENVIRONMENT AT THE LOCATION.

FAULT CURRENT CALCULATION

TRANSFORMER SIZE (KVA)		800
TRANSFORMER Z (%)		5.3
"C" FACTOR (#600 KCMIL COND.)		20,093
NUMBER OF CONDUCTORS PER PHASE		9
LINE TO LINE VOLTAGE		208
LINE TO NEUTRAL VOLTAGE		120
LENGTH OF SERVICE		100
I=	800 X 1000 / 1.73 X 208	= 2,221
I(sca)=	2221 X 100 / 5.25	= 42,297
F=	42,297 X 1.73 X 100 / 9 X 20,093 X 208	= 0.19
M=	1 / 1+0.19 = 1 / 1.19	= 0.84
Isc AT SERVICE DISCONNECT=	42,297 X 0.84	= 35,482
MAXIMUM AVAILABLE FAULT CURRENT	=	44683.00 AMPERES
☐ FURNISHED BY UTILITY COMPANY ON DATE	=	XX.XX.XXXX
☑ CALCULATED BY ENGINEER ON DATE	=	10.29.2026

ANY CHANGES TO THE SUPPLY POWER, OR INTERNAL ELECTRICAL SYSTEM, THAT COULD CAUSE THIS UTILITY FURNISHED OR CALCULATED VALUE TO INCREASE, SHALL BE EVIDENCE THAT A QUALIFIED PERSON REPEAT THE CALCULATIONS AND MAKE ADJUSTMENTS TO THE SYSTEM IF REQUIRED.
(AFTER REVISIONS, CHANGE THIS LABEL TO REFLECT REVISED DATA AND NEW DATE.)
PLACE ON A VISIBLE SURFACE OF THE SERVICE ENTRANCE DISCONNECT.
USE A LABEL THAT HAS MINIMUM 1/8 HIGH LETTERING AND SUITABLE FOR THE ENVIRONMENT AT THE LOCATION.

Short-Circuit and Voltage Drop Calculations

FAULT POINT	BUS/FEEDER DESCRIPTION	PHASE	SOURCE POINT	SOURCE ISC (AMPS)	FEEDER: CONDUIT TYPE	MATERIAL CU OR AL	#	WIRE/BUS SIZE	CONDUCTOR 'C' VALUE	BUSWAY 'C' VALUE	L-L VOLTS (E)	CIRCUIT LENGTH (L)	LOAD POWER FACTOR (PF)	CIRCUIT LOAD (A)	CONDUCTOR: RESISTANCE (R)	CONDUCTOR: REACTANCE (X)	KVA	DEGREE RISE	Z	V SEC	F	M	FAULT CURRENT (Isc)	VOLTAGE DROP (RVD)	TOTAL V.D. (RVD CUM)
1	UTILITY SERVICE POINT			65000	AT THE SECONDARY OF THE UTILITY TRANSFORMER 208Y/120V - 3 PHASE																			SOURCE ISC + 6X MOTOR CONTRIBUTION =		
	MOTOR CONTRIBUTION			70																			65420		
2	LANDLORD WIREWAY	3	1	65420	M	CU	2	SET(S) OF 600 KCMIL	22965		208	30	0.9	146.3	0.025	0.048					0.356	0.74	48,251	0.08	0.08
3	EXISTING 200A DISCONNECT	3	2	48251	M	CU	1	SET(S) OF 3/0 AWG	12844		208	10	0.9	63.3	0.079	0.052					0.313	0.76	36,754	0.05	0.13
4	PANEL T1	3	3	36754	M	CU	1	SET(S) OF 3/0 AWG	12844		208	44	0.9	63.3	0.079	0.052					1.048	0.49	17,942	0.22	0.35
5	EXISTING 400A DISCONNECT	3	2	17942	M	CU	1	SET(S) OF 3/0 AWG	12844		208	10	0.9	63.3	0.079	0.052					0.116	0.90	16,072	0.05	0.40
6	PANEL T2	3	5	16072	M	CU	1	SET(S) OF 3/0 AWG	12844		208	37	0.9	63.3	0.079	0.052					0.386	0.72	11,600	0.18	0.58
7	EXISTING 100A DISCONNECT	3	2	11600	M	CU	1	SET(S) OF 3 AWG	4774		208	10	0.9	19.7	0.250	0.059					0.282	0.83	9,648	0.04	0.62
8	PANEL HP1	3	7	17942	M	CU	1	SET(S) OF 3 AWG	4774		208	27	0.9	19.7	0.250	0.059					0.845	0.54	9,725	0.11	0.46
9	RTU-110	3	4	17942	M	CU	1	SET(S) OF 8 AWG	1557		208	25	0.9	43.32	0.780	0.065					2.399	0.29	5,279	0.66	1.00
10	EWH-1	1	4	9648	M	CU	1	SET(S) OF 10 AWG	981		208	17	0.9	29.18	1.200	0.063					1.608	0.38	3,700	0.53	1.15
11	RTU-112	3	6	11600	M	CU	1	SET(S) OF 8 AWG	1557		208	25	0.9	43.32	0.780	0.065					1.551	0.39	4,547	0.66	1.24
12	EWH-1	1	6	5279	M	CU	1	SET(S) OF 10 AWG	981		208	17	0.9	29.18	1.200	0.063					0.888	0.53	2,808	0.53	1.53

Short-Circuit and Voltage Drop Calculations

FAULT POINT	BUS/FEEDER DESCRIPTION	PHASE	SOURCE POINT	SOURCE ISC (AMPS)	FEEDER: CONDUIT TYPE	MATERIAL CU OR AL	#	WIRE/BUS SIZE	CONDUCTOR 'C' VALUE	BUSWAY 'C' VALUE	L-L VOLTS (E)	CIRCUIT LENGTH (L)	LOAD POWER FACTOR (PF)	CIRCUIT LOAD (A)	CONDUCTOR: RESISTANCE (R)	CONDUCTOR: REACTANCE (X)	KVA	DEGREE RISE	Z	V SEC	F	M	FAULT CURRENT (Isc)	VOLTAGE DROP (RVD)	TOTAL V.D. (RVD CUM)
1	UTILITY SERVICE POINT			65000	AT THE SECONDARY OF THE UTILITY TRANSFORMER 208Y/120V - 3 PHASE																			SOURCE ISC + 6X MOTOR CONTRIBUTION =		
	MOTOR CONTRIBUTION			184																			66104		
2	EXISTING 800A BREAKER	3	1	66104	M	CU	2	SET(S) OF 600 KCMIL	22965		208	40	0.9	379.7	0.025	0.048					0.479	0.68	44,683	0.27	0.27
3	EXISTING 200A BREAKER	3	2	44683	M	CU	1	SET(S) OF 3 AWG	4774		208	5	0.9	12.4	0.250	0.059					0.398	0.72	32,153	0.01	0.29
4	PANEL HP2	3	3	32153	M	CU	1	SET(S) OF 3 AWG	4774		208	20	0.9	12.4	0.250	0.059					1.122	0.47	15,155	0.05	0.34
5	EXISTING 200A BREAKER	3	2	15155	M	CU	1	SET(S) OF 3/0 AWG	12844		208	5	0.9	81.3	0.079	0.052					0.049	0.95	14,445	0.03	0.37
6	PANEL T3	3	5	14445	M	CU	1	SET(S) OF 3/0 AWG	12844		208	25	0.9	81.3	0.079	0.052					0.234	0.81	11,705	0.16	0.53
7	EXISTING 200A BREAKER	3	2	11705	M	CU	1	SET(S) OF 3/0 AWG	12844		208	5	0.9	63.3	0.079	0.052					0.038	0.96	11,277	0.02	0.55
8	PANEL T4	3	7	11277	M	CU	1	SET(S) OF 3/0 AWG	12844		208	27	0.9	63.3	0.079	0.052					0.197	0.84	9,418	0.13	0.47
9	EXISTING 200A BREAKER	3	2	9418	M	CU	1	SET(S) OF 3/0 AWG	12844		208	5	0.9	60.3	0.079	0.052					0.031	0.97	9,139	0.02	0.36
10	PANEL T5	3	9	9139	M	CU	1	SET(S) OF 3/0 AWG	12844		208	33	0.9	60.3	0.079	0.052					0.226	0.82	7,455	0.18	0.73
11	EXISTING 200A BREAKER	3	2	7455	M	CU	1	SET(S) OF 3/0 AWG	12844		208	5	0.9	60.3	0.079	0.052					0.024	0.98	7,280	0.02	0.55
12	PANEL T6	3	11	7280	M	CU	1	SET(S) OF 3/0 AWG	12844		208	36	0.9	60.3	0.079	0.052					0.196	0.84	6,086	0.20	0.56
13	EXISTING 200A BREAKER	3	2	6086	M	CU	1	SET(S) OF 3/0 AWG	12844		208	5	0.9	102.1	0.079	0.052					0.020	0.98	5,968	0.04	0.51
14	PANEL T7	3	13	5968	M	CU	1	SET(S) OF 3/0 AWG	12844		208	39	0.9	102.1	0.079	0.052					0.174	0.85	5,082	0.36	0.91
15	RTU-100	3	6	5082	M	CU	1	SET(S) OF 4 AWG	3806		208	32	0.9	61.31	0.310	0.060					0.356	0.74	3,749	0.50	1.23
16	EWH-1	1	6	3749	M	CU	1	SET(S) OF 10 AWG	981		208	17	0.9	29.18	1.200	0.063					0.625	0.62	2,307	0.53	1.04
17	RTU-102	3	8	2307	M	CU	1	SET(S) OF 8 AWG	1557		208	32	0.9	43.32	0.780	0.065					0.395	0.72	1,654	0.84	1.40
18	EWH-1	1	8	1654	M	CU	1	SET(S) OF 10 AWG	981		208	17	0.9	29.18	1.200	0.063					0.276	0.78	1,297	0.53	1.76
19	RTU-104	3	10	1297	M	CU	1	SET(S) OF 8 AWG	1557		208	32	0.9	43.32	0.780	0.065					0.222	0.82	1,061	0.84	1.76
20	EWH-1	1	10	1061	M	CU	1	SET(S) OF 10 AWG	981		208	15	0.9	29.18	1.200	0.063					0.156	0.87	918	0.47	1.87
21	RTU-106	3	12	918	M	CU	1	SET(S) OF 8 AWG	1557		208	32	0.9	43.32	0.780	0.065					0.157	0.86	793	0.84	1.88
22	EWH-1	1	12	793	M	CU	1	SET(S) OF 10 AWG	981		208	15	0.9	29.18	1.200	0.063					0.117	0.90	710	0.47	2.22
23	RTU-108A	3	14	710	M	CU	1	SET(S) OF 8 AWG	1557		208	35	0.9	43.32	0.780	0.065					0.133	0.88	627	0.92	2.68
24	EWH-1	1	14	627	M	CU	1	SET(S) OF 10 AWG	981		208	25	0.9	29.18	1.200	0.063					0.154	0.87	544	0.78	2.66
25	RTU-108B	3	14	544	M	CU	1	SET(S) OF 8 AWG	1557		208	67	0.9	43.32	0.780	0.065					0.225	0.82	444	2.04	4.26
26	EWH-1	1	14	444	M	CU	1	SET(S) OF 10 AWG	981		208	21	0.9	29.18	1.200	0.063					0.091	0.92	407	0.65	3.34

GENERAL NOTES

A. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

B. IF THE EXISTING INSTALLATION DOES NOT MEET THE MINIMUM CRITERIA NOTED ON THE EXISTING RISER DIAGRAM AND WITHIN THE PANEL SCHEDULES, THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY MODIFICATIONS TO BRING THE EXISTING INSTALLATION INTO COMPLIANCE WITH THE MINIMUM SIZES AND/OR RATINGS INDICATED THEREIN AND INCLUDE THE COST OF ANY REQUIRED MODIFICATIONS IN THE INITIAL BID.

C. POST-BID ADDITIONAL COSTS RESULTING FROM AN EXISTING INSTALLATION THAT DOES NOT MEET THE MINIMUM CRITERIA INDICATED WILL NOT BE PERMITTED.

D. IF THE EXISTING INSTALLATION MEETS OR EXCEEDS THE MINIMUM CRITERIA INDICATED, MODIFICATIONS OF THE EXISTING INSTALLATION ARE NOT REQUIRED.

E. PROVIDE ARC-FLASH WARNING MARKINGS (FACTORY OF FIELD APPLIED) TO PANELS, DISCONNECTS AND METERS PER NEC 110.16 AND 110.21(B).

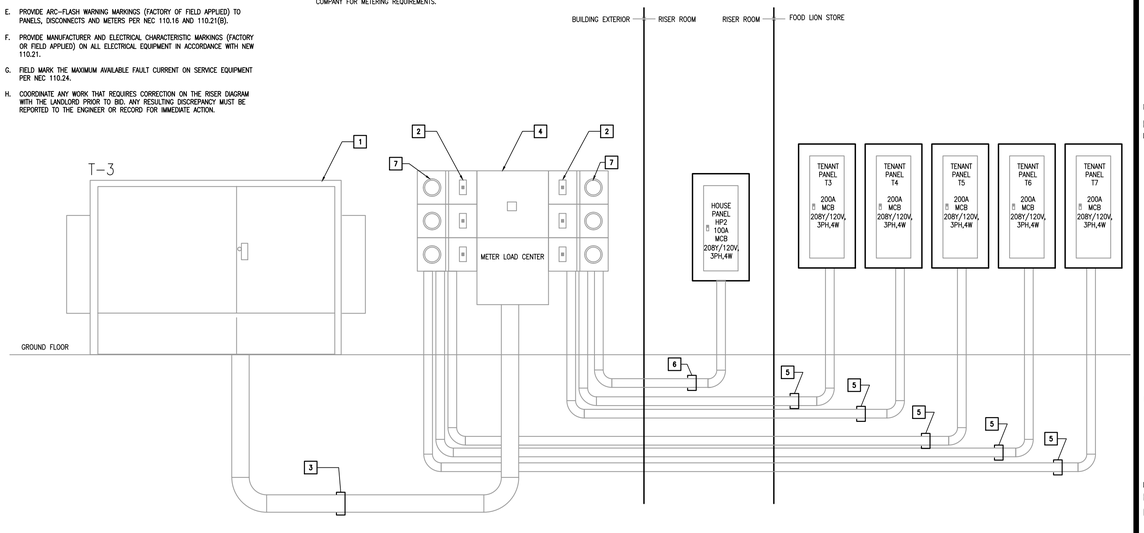
F. PROVIDE MANUFACTURER AND ELECTRICAL CHARACTERISTIC MARKINGS (FACTORY OR FIELD APPLIED) ON ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEW 110.21.

G. FIELD MARK THE MAXIMUM AVAILABLE FAULT CURRENT ON SERVICE EQUIPMENT PER NEC 110.24.

H. COORDINATE ANY WORK THAT REQUIRES CORRECTION ON THE RISER DIAGRAM WITH THE LANDLORD PRIOR TO BID. ANY RESULTING DISCREPANCY MUST BE REPORTED TO THE ENGINEER OR RECORD FOR IMMEDIATE ACTION.

KEYED NOTES [X]

1. EXISTING PAD MOUNTED TRANSFORMER. SIZED PER UTILITY COMPANY.
2. EXISTING 200AMP-3P BRANCH CIRCUIT BREAKER, TYPICAL.
3. EXISTING SECONDARY SERVICE FEEDER.
4. EXISTING 800AMP MAIN METER LOAD CENTER IN NEMA 3R WEATHERPROOF ENCLOSURE.
5. PROVIDE [4]#3/0 AWG CU, 1]#6 AWG CU GND IN EXISTING 2"C].
6. PROVIDE [4]#3 AWG CU, 1]#6 AWG CU GND IN EXISTING 1-1/4"C].
7. EXISTING METER LOAD CENTER METER SOCKET. COORDINATE WITH UTILITY COMPANY FOR METERING REQUIREMENTS.



3 ELECTRICAL RISER DIAGRAM - T-3
N.T.S

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II –
BUILDING
DEVELOPMENT

TIMBER
DEVELOPMENT
CORPORATION

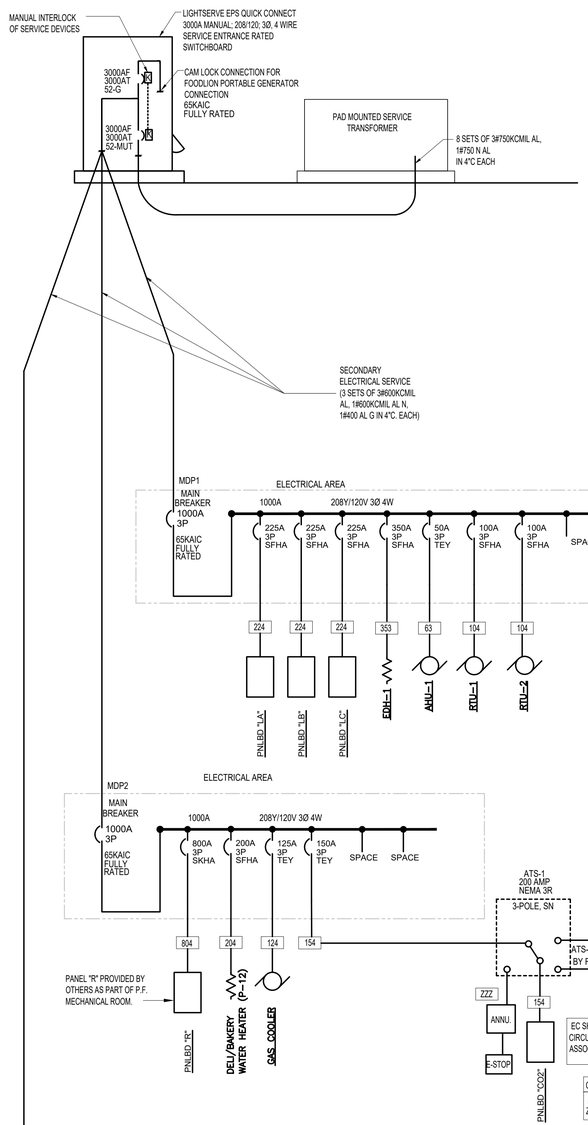
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E4.0
ELECTRICAL RISER DIAGRAM
NORTH AND SOUTH UNITS

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC. RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.



01 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

ALL BREAKER SERVING HVAC EQUIPMENT SHALL BE HACR RATED.

NOTE: REFER TO SHEET E7.01 FOR GROUNDING DETAIL.

NOTE: REFER TO DETAIL 7 ON SHEET E2.01 FOR POWER WALL SYSTEM ELEVATION.

CONTRACTOR SHALL COORDINATE WITH UTILITY (COMPANY NAME)/(PHONE NUMBER), FOR FAULT CURRENT INFORMATION BEFORE INSTALLING ELECTRICAL EQUIPMENT. CONTRACTOR SHALL CONTACT EOR WITH FAULT CURRENT INFORMATION AT THE SECONDARY OF THE UTILITY TRANSFORMER.

CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK.

ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY TO VERIFY VOLTAGE AND ALL UTILITY REQUIREMENTS PRIOR TO PURCHASE OF EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR ELECTRICAL RISER.

TRIP UNITS FOR ALL CIRCUIT BREAKERS 1200A AND LARGER SHALL PROVIDE REAL TIME POWER METERING AND AN INTEGRAL ENERGY REDUCTION MAINTENANCE SWITCH (ERMS) PER NEC 240.87. THE SWITCHBOARD/QUICK CONNECT MANUFACTURER SHALL PROVIDE A LOCKABLE SWITCH AND INDICATING LIGHT, SEPARATE FROM THE TRIP UNIT, FOR ACTIVATING THE ERMS AND CONFIRMING ITS ACTIVATION. TRIP UNITS SHALL BE EQUAL TO SQUARE D MICROLOGIC 5.0P OR 6.0P.

COORDINATE ALL CHANGES OF ELECTRICAL SERVICE AND METERING WITH UTILITY COMPANY.

STORE ADDRESS: FOOD LION STORE
ADDRESS,TOWN
STATE, ZIP CODE

<UTILITY COMPANY> COMPANY NAME
<CONTACT> ENGINEER NAME
<PHONE> (XXX)XXX-XXXX

EMERGENCY GENERATOR: 35 kW, 120Y/208 VOLT, 3 PHASE, 4 WIRE, W/ PROTECTIVE HOUSING.

FACTORY-INSTALLED WEATHER-PROTECTIVE HOUSING OVER GENERATOR & ENCLOSED CIRCUIT BREAKER.

WARNING

Arc Flash and Shock Hazard

Appropriate PPE Required

CAUTION--SERIES COMBINATION SYSTEM RATED. 65KAIC IDENTIFIED REPLACEMENT COMPONENT REQUIRED.

NEC-110.16, 110.22

NOTES:

1. PROVIDE/INSTALL SIGN ON ALL EQUIPMENT PER ANSI, NEC 70E 2012,AND OSHA. ANSI Z535.4-1998, PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR THE DESIGN OF SAFETY SIGNS AND LABELS FOR APPLICATION TO PRODUCTS.
2. REFER TO RISER DIAGRAM FOR SHORT CIRCUIT AMPERAGE INFORMATION.

02 ARC FLASH WARNING SIGN DETAIL

SCALE: NTS

CIRCUIT SCHEDULE		
33	30A	(3)#10, (1)#10G, 1/2" C
43	40A	(3)#8, (1)#10G, 3/4" C
63	60A	(3)#6, (1)#10G, 1" C
93	90A	(3)#3, (1)#8G, 1-1/4" C
104	100A	(4)#3, (1)#8G, 1-1/4" C
124	125A	(4)#1, (1)#6G, 1-1/2" C
154	150A	(4)#1/0, (1)#6G, 2" C
173	175A	(3)#2/0, (1)#6G, 1-1/2" C
204	200A	(4)#3/0, (1)#6G, 2" C
224	225A	(4)#4/0, (1)#4G, 2-1/2" C
254	250A	(4)-250kcmil, (1)#4G, 2-1/2" C
353	350A	(3)-500kcmil, (1)#3G, 3-1/2" C
404	400A	(2) 2" C, EACH W/ (4)#3/0, (1)#3G
804	800A	(3) 3" C, EACH W/ (4)-300kcmil, (1)#1/0G

ALL CONDUCTOR SIZES SHOWN ARE BASED ON CU.

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS AND TYPE THHN/THWN-2 INSULATION. FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

FAULT CURRENT CALCULATION

TRANSFORMER SIZE (KVA)	800
TRANSFORMER Z (%)	5.3
"C" FACTOR (#750 KCMIL COND.)	31,051
NUMBER OF CONDUCTORS PER PHASE	8
LINE TO LINE VOLTAGE	208
LINE TO NEUTRAL VOLTAGE	120
LENGTH OF SERVICE	100

$$I = \frac{800 \times 1000}{1.73 \times 208} = 2,221$$

$$I(sco) = \frac{2221 \times 100}{5.25} = 42,297$$

$$F = \frac{42,297 \times 1.73 \times 100}{8 \times 31,051 \times 208} = 0.14$$

$$M = \frac{1}{1+0.14} = \frac{1}{1.14} = 0.88$$

Isc AT SERVICE DISCONNECT= 42,297 X 0.88 = 37,044

MAXIMUM AVAILABLE FAULT CURRENT = 35415.00 AMPERES

☐ FURNISHED BY UTILITY COMPANY ON DATE = XX.XX.XXXX

☑ CALCULATED BY ENGINEER ON DATE = 10.16.2026

ANY CHANGES TO THE SUPPLY POWER, OR INTERNAL ELECTRICAL SYSTEM, THAT COULD CAUSE THIS UTILITY FURNISHED OR CALCULATED VALUE TO INCREASE, SHALL BE EVIDENCE THAT A QUALIFIED PERSON REPEAT THE CALCULATIONS AND MAKE ADJUSTMENTS TO THE SYSTEM IF REQUIRED.
(AFTER REVISIONS, CHANGE THIS LABEL TO REFLECT REVISED DATA AND NEW DATE.)
PLACE ON A VISIBLE SURFACE OF THE SERVICE ENTRANCE DISCONNECT.
USE A LABEL THAT HAS MINIMUM 1/8" HIGH LETTERING AND SUITABLE FOR THE ENVIORNMENT AT THE LOCATION.

Short-Circuit and Voltage Drop Calculations

FAULT POINT	BUS/FEEDER DESCRIPTION	PHASE	SOURCE POINT	SOURCE ISC (AMPS)	FEEDER: CONDUIT TYPE	FEEDER: MATERIAL CU OR AL	FEEDER: #	FEEDER: WIRE/BUS SIZE	CONDUCTOR 'C' VALUE	BUSWAY 'C' VALUE	L-L VOLTS (E)	CIRCUIT LENGTH (L) **	LOAD POWER FACTOR (PF)	CIRCUIT LOAD (A)	CONDUCTOR: RESISTANCE (R)	CONDUCTOR: REACTANCE (X)	KVA	DEGREE RISE	Z	V SEC	F	M	FAULT CURRENT ISC	VOLTAGE DROP %VD	TOTAL V.D. %VD CUM	FAULT POINT (F#)
1	UTILITY SERVICE POINT		*	37044	AT THE SECONDARY OF THE UTILITY TRANSFORMER 208Y/120V – 3 PHASE SOURCE ISC + 6X MOTOR CONTRIBUTION =																		37650			1
	MOTOR CONTRIBUTION			101																						
2	NEX GEAR	3	1	37650	M	AL	8	SET(S) OF 750 KCMIL	31051		208	50	0.9	2451.3	0.031	0.039					0.063	0.94	35,415	0.57	0.57	2
3	MDP-1	3	2	35415	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	779.7	0.036	0.039					0.171	0.85	30,245	0.53	1.11	3
4	MDP-2	3	2	30245	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	944.9	0.036	0.039					0.146	0.87	26,392	0.65	1.22	4
5	MDP-3	3	2	26392	M	AL	3	SET(S) OF 600 KCMIL	28752		208	50	0.9	806.2	0.036	0.039					0.127	0.89	23,410	0.55	1.13	5
6	PANEL LA	3	3	23410	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	82.7	0.063	0.051					0.259	0.79	18,601	0.11	1.22	6
7	PANEL LB	3	3	18601	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	52.6	0.063	0.051					0.205	0.83	15,431	0.07	1.18	7
8	PANEL LC	3	3	15431	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	155.3	0.063	0.051					0.170	0.85	13,185	0.20	1.31	8
9	EDH-1	3	3	13185	PVC	CU	1	SET(S) OF 500 KCMIL	26706		208	40	0.9	277	0.027	0.039					0.164	0.86	11,323	0.38	1.49	9
10	AHU-1	3	3	11323	PVC	CU	1	SET(S) OF 3 AWG	4811		208	40	0.9	46.8	0.250	0.047					0.784	0.56	6,347	0.38	1.49	10
11	RTU-1	3	3	6347	PVC	CU	1	SET(S) OF 3 AWG	4811		208	40	0.9	93	0.250	0.047					0.439	0.69	4,409	0.76	1.87	11
12	PANEL R	3	4	4409	M	CU	3	SET(S) OF 300 KCMIL	18177		208	50	0.9	618.9	0.072	0.051					0.034	0.97	4,266	0.75	1.97	12
13	WATER HEATER	3	4	4266	M	CU	1	SET(S) OF 4/0 AWG	15082		208	50	0.9	120	0.063	0.052					0.118	0.89	3,816	0.40	1.62	13
14	PANEL PA	3	5	3816	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	61.5	0.063	0.051					0.042	0.96	3,662	0.08	1.21	14
15	PANEL PB	3	5	3662	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	32.4	0.063	0.051					0.040	0.96	3,520	0.04	1.17	15
16	PANEL PC	3	5	3520	M	CU	1	SET(S) OF 4/0 AWG	15082		208	20	0.9	112.5	0.063	0.051					0.039	0.96	3,388	0.15	1.27	16
17	PANEL D	3	5	3388	M	CU	2	SET(S) OF 3/0 AWG	12844		208	200	0.9	232.9	0.079	0.052					0.220	0.82	2,778	1.82	2.94	17
18	PANEL B	3	5	2778	M	CU	1	SET(S) OF 4/0 AWG	15082		208	200	0.9	88.1	0.063	0.051					0.307	0.77	2,126	1.16	2.28	18
19	PANEL CO2	3	3	23410	M	CU	1	SET(S) OF 1/0 AWG	8925		208	50	0.9	65.1	0.120	0.055					1.092	0.48	11,190	0.36	1.47	19

*THE FAULT CURRENT WAS CALCULATED USING INFINITE BUS METHOD UTILIZING TRANSFORMER SIZE OF 800 KVA AND 5.3(%)Z. REFER TO FAULT CURRENT CALCULATIONS TABLE ON THIS SHEET.
**DISTANCES SHOWN IN THESE CALCULATIONS ARE ESTIMATED BASED ON INFORMATION AVAILABLE TO ENGINEER AT TIME OF DESIGN.

FOOD LION PLAN SHOWN IN PHASE II FOR JURISDICTION REFERENCE

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E4.1
ELECTRICAL RISER DIAGRAM - FOOD LION

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

NEW PANEL T1

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 19.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 4200			A	50/3	3/4"	#8	-	#10	RTU-110	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 4200		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 4200	A			#8			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							5340	6300	7701							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	12600	1.0	12600				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 19.3 KVA 53.7 AMPS
TOTAL DEMAND LOAD 22.8 KVA 63.3 AMPS

NEW PANEL T2

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 19.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 4200			A	50/3	3/4"	#8	-	#10	RTU-112	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 4200		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 4200	A			#8			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							5340	6300	7701							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	12600	1.0	12600				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 19.3 KVA 53.7 AMPS
TOTAL DEMAND LOAD 22.8 KVA 63.3 AMPS

NEW PANEL T3

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 400A MLO
SYSTEM: 3ø, 4W
BUS RATING 400A
CONN. LOAD: 25.8 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 6360			A	70/3	1"	#4	-	#8	RTU-100	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 6360		A			#4			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 6360	A			#4			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							7500	8460	9861							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	19080	1.0	19080				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 25.8 KVA 71.7 AMPS
TOTAL DEMAND LOAD 29.3 KVA 81.3 AMPS

NEW PANEL T4

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 19.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 4200			A	50/3	3/4"	#8	-	#10	RTU-102	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 4200		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 4200	A			#8			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							5340	6300	7701							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	12600	1.0	12600				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 19.3 KVA 53.7 AMPS
TOTAL DEMAND LOAD 22.8 KVA 63.3 AMPS

NEW PANEL T5

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 18.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 3840			A	45/3	3/4"	#8	-	#10	RTU-104	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 3840		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 3840	A			#8			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							4980	5940	7341							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	11520	1.0	11520				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 18.3 KVA 50.7 AMPS
TOTAL DEMAND LOAD 21.7 KVA 60.3 AMPS

NEW PANEL T6

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 18.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 3840			A	45/3	3/4"	#8	-	#10	RTU-106	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 3840		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 3840	A			#8			"	6	-
-	7	SPACE	-	-	-	-	-	-	- / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / -		-	-	-	-	-	-	SPACE	10	-
-	11	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							4980	5940	7341							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	3501	1.0	3501
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	11520	1.0	11520				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 18.3 KVA 50.7 AMPS
TOTAL DEMAND LOAD 21.7 KVA 60.3 AMPS

NEW PANEL T7

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 200A MLO
SYSTEM: 3ø, 4W
BUS RATING 225A
CONN. LOAD: 33.3 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
-	1	LIGHTING	3/4"	#12	#12	#12	20/1	L	600 / 3840			A	45/3	3/4"	#8	-	#10	RTU-108a	2	2
-	3	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		900 / 3840		A			#8			"	4	-
-	5	EWH-1	3/4"	#10	#10	#10	30/1	W			3501 / 3840	A			#8			"	6	-
-	7	EWH-1	3/4"	#10	#10	#10	30/1	W	3501 / 540			R	20/1	3/4"	#12	#12	#12	ROOF SERVICE RECEPTACLES	8	-
-	9	SIGNAGE	3/4"	#12	#12	#12	20/1	L		1200 / 3840		A	45/3	3/4"	#8	-	#10	RTU-108b	10	-
-	11	SPACE	-	-	-	-	-	-			- / 3840	A			#8			"	12	-
-	13	SPACE	-	-	-	-	-	-	- / 3840			A			#8			"	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							12321	9780	11181							FROM: SERVICE 200AMP DISCONNECT SWITCH		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	1800	1.25	2250	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	1440	1.0	1440	LARGEST MOTOR	12024	0.25	3006
RECEPTS REMAINING	0	0.5	0	WATER HEATING	7002	1.0	7002
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	23040	1.0	23040				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 33.3 KVA 92.5 AMPS
TOTAL DEMAND LOAD 36.7 KVA 102.1 AMPS

NEW PANEL HP1

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 100A MCB
SYSTEM: 3ø, 4W
BUS RATING 100A
CONN. LOAD: 5.7 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
3	1	EXTERIOR BUILDING LIGHTING	3/4"	#12	#12	#12	20/1	L	180 / 180			L	20/1	3/4"	#12	#12	#12	ELECTRICAL ROOM LIGHTING	2	-
-	3	TIMECLOCK	3/4"	#12	#12	#12	20/1	L		200 / 160		L	20/1	3/4"	#12	#12	#12	TELEPHONE BOARD	4	-
-	5	SPACE	-	-	-	-	-	-			- / 200	L	20/1	3/4"	#12	#12	#12	MAINTENANCE RECEPTACLE	6	-
4	7	SITE LIGHTING	1"	#6	-	#10	20/2	L	632 / -			-	-	-	-	-	-	SPACE	8	3
-	9	"		#6				L		632 / -		-	-	-	-	-	-	SPACE	10	-
4	11	SITE LIGHTING	1"	#6	-	#10	20/2	L			730 / -	-	-	-	-	-	-	SPACE	12	-
-	13	"		#6				L	730 / -			-	-	-	-	-	-	SPACE	14	-
4	15	SITE LIGHTING	1-1/4"	#3	#10	#10	20/2	L		1015 / -		-	-	-	-	-	-	SPACE	16	-
-	17	"		#3				L			1015 / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							1722	2007	1945							FROM: LANDLORD WIREWAY		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	5674	1.25	7093	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	0	1.0	0	LARGEST MOTOR	0	0.25	0
RECEPTS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	0	1.0	0				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 5.7 KVA 15.8 AMPS
TOTAL DEMAND LOAD 7.1 KVA 19.7 AMPS

NEW PANEL HP2

LOCATION: SEE PLANS
VOLTAGE: 208Y/120V
TRIM: SURFACE
MAIN: 100A MCB
SYSTEM: 3ø, 4W
BUS RATING 100A
CONN. LOAD: 3.6 KVA
FEED: TOP
GROUND BUS: YES

NOTES	CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT	NOTES
3	1	EXTERIOR BUILDING LIGHTING	3/4"	#12	#12	#12	20/1	L	180 / 180			L	20/1	3/4"	#12	#12	#12	ELECTRICAL ROOM LIGHTING	2	-
-	3	TIMECLOCK	3/4"	#12	#12	#12	20/1	L		200 / 160		L	20/1	3/4"	#12	#12	#12	TELEPHONE BOARD	4	-
4	5	SITE LIGHTING	1"	#6	-	#12	20/1	L			720 / 200	L	20/1	3/4"	#12	#12	#12	MAINTENANCE RECEPTACLE	6	-
-	7	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	8	3
4	9	SITE LIGHTING	1"	#6	-	#10	20/2	L		964 / -		-	-	-	-	-	-	SPACE	10	-
-	11	"		#6				L			964 / -	-	-	-	-	-	-	SPACE	12	-
-	13	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	14	-
-	15	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	16	-
-	17	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	18	-
-	19	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	20	-
-	21	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	22	-
-	23	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	24	-
-	25	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	26	-
-	27	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	28	-
-	29	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	30	-
-	31	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	32	-
-	33	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	34	-
-	35	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	36	-
-	37	SPACE	-	-	-	-	-	-	- / -			-	-	-	-	-	-	SPACE	38	-
-	39	SPACE	-	-	-	-	-	-		- / -		-	-	-	-	-	-	SPACE	40	-
-	41	SPACE	-	-	-	-	-	-			- / -	-	-	-	-	-	-	SPACE	42	-
		INTERRUPT RATING: 10,000 AIC							360	1324	1884							FROM: LANDLORD WIREWAY		

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	3568	1.25	4460	NON-SEASONAL MOTORS	0	1.0	0
RECEPTS TO 10 KVA	0	1.0	0	LARGEST MOTOR	0	0.25	0
RECEPTS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	0.65	0
AIR CONDITIONING	0	1.0	0				

REMAINING CONTINUOUS LOADS 0 1.25 0
REMAINING NON-CONTINUOUS LOADS 0 1.0 0
MISC. DEMAND LOADS 0 1.0 0
TOTAL CONNECTED LOAD 3.6 KVA 9.9 AMPS
TOTAL DEMAND LOAD 4.5 KVA 12.4 AMPS

CIRCUIT BREAKER / CONDUCTOR TERMINATION NOTE:

1. PROVIDE A 20A, 2-POLE CIRCUIT BREAKER COMPATIBLE WITH THE SPECIFIED PANELBOARD. VERIFY THAT BREAKER TERMINALS ARE LISTED FOR THE INSTALLED CONDUCTOR SIZE. WHERE THE SPECIFIED #2 AWG COPPER CONDUCTORS CANNOT BE TERMINATED DIRECTLY AT THE CIRCUIT BREAKER, PROVIDE LISTED DISTRIBUTION TERMINALS OR CONNECTORS IN AN APPROVED ENCLOSURE, WITH APPROPRIATELY SIZED PIGTAIL CONDUCTORS COMPATIBLE WITH THE BREAKER TERMINALS. ALL TERMINATIONS, CONNECTORS, AND CONDUCTORS SHALL BE LISTED FOR THE APPLICATION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE NEC.

PANELBOARD NOTES

1. PROVIDE LOCKABLE BREAKER(S) FOR CIRCUIT.
2. PROVIDE HACR RATED BREAKER(S) FOR CIRCUIT.
3. CIRCUIT VIA TIMECLOCK.
4. SEE CIRCUIT BREAKER/CONDUCTOR TERMINATION NOTE.

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

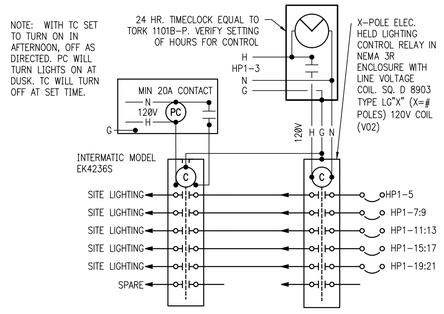
TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

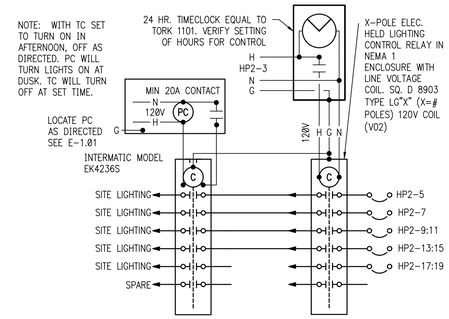
E5.0
ELECTRICAL PANEL SCHEDULES

CHECKED: GMADRAWN: BJ

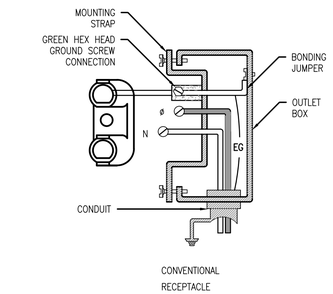
COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.



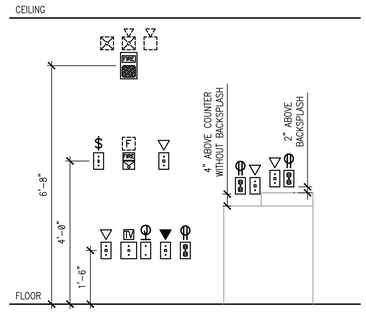
1 HOUSE LIGHTING CONTROL DIAGRAM
NTS



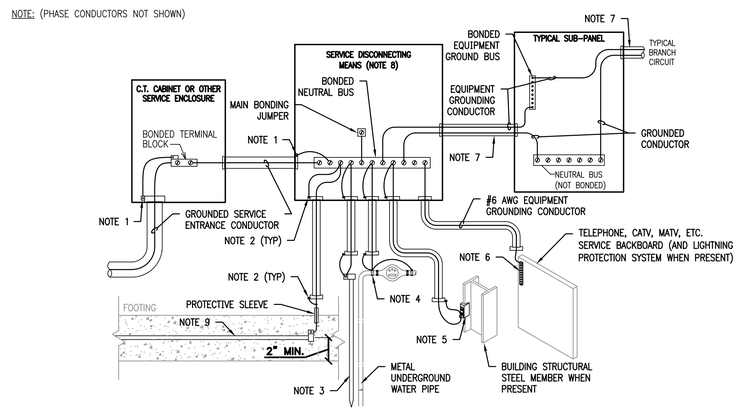
2 SUITE 102 LIGHTING CONTROL DIAGRAM
NTS



3 CONVENTIONAL RECEPTACLE
NTS



4 TYPICAL MOUNTING HEIGHTS
NTS



GROUNDING DETAIL NOTES:

1. ALL METAL CONDUITS ENCLOSING ANY SERVICE CONDUCTORS SHALL BE FITTED WITH A "BONDING BUSHING". SIZE THE JUMPER PER NEC.
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END. SIZE THE JUMPER PER NEC.
3. PROVIDE AT LEAST ONE SUPPLEMENTAL GROUNDING ELECTRODE PER NEC IN THE FORM OF A 10'-0" x 3/4" COPPER CLAD GROUND ROD INSTALLED PER CURRENT NEC REQUIREMENTS.
4. CONNECT TO THE BUILDING'S METAL UNDERGROUND WATER PIPE WITHIN 5'-0" OF ITS ENTRANCE INTO THE BUILDING AND JUMPER ANY WATER METER PER NEC REQUIREMENTS.
5. IF STRUCTURAL STEEL MEMBER IS AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDED LUG.
6. PROVIDE AN EQUIPMENT GROUND BAR AND ATTACH IT TO THE PHONE BOARD.
7. ALL BRANCH CIRCUIT AND FEEDER CONDUITS ARE TO HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR REGARDLESS OF THE CONDUIT MATERIAL.
8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.
9. PROVIDE A GROUNDING ELECTRODE ENCASED IN AT LEAST 2" OF CONCRETE AND LOCATED NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH. GROUNDING ELECTRODE SHALL CONSIST OF AT LEAST 20'-0" OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2" IN DIAMETER OR AT LEAST 20'-0" OF #4 AWG BARE COPPER CONDUCTOR.

5 MAIN SERVICE ENTRANCE GROUND CONNECTIONS
N.T.S

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

**ARCHITECTURE
ENGINEERING
PERMITTING**

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E5.2
ELECTRICAL DETAILS

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

DIVISION 26 - ELECTRICAL SPECIFICATIONS

1. GENERAL INFORMATION

1.1. PROVIDE ALL SUPPLIES, MATERIAL, LABOR, EQUIPMENT, AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION AND FULL OPERATION OF ALL ELECTRICAL AND ELECTRICAL RELATED WORK, INDICATED HEREINAFTER ON DRAWINGS AND SPECIFICATIONS, FOR A SAFE AND FULLY OPERATIONAL SYSTEM.

1.1.1. THE INSTALLED SYSTEM SHALL BE COMPLETE IN EVERY WAY AND FUNCTIONING ACCORDING TO THE DESIGN INTENT, WHETHER OR NOT ALL SUCH MATERIALS AND APPURTENANCES ARE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.

1.2. PERFORM ALL OPERATIONS INCLUDING EXCAVATION & BACKFILLING, SHORING, CUTTING, CHANNELING & CHASING, DE-WATERING, ETC. NECESSARY FOR INSTALLATION OF FULLY OPERATIONAL SYSTEM, WHETHER OR NOT SHOWN ON THE DRAWINGS.

1.3. DEFINITION OF TERMS

1.3.1. FURNISH – SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

1.3.2. INSTALL – OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.

1.3.3. PROVIDE – FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

1.3.4. U.N.O. – UNLESS NOTED OTHERWISE.

1.3.5. M.S.D.S. – MATERIAL SAFETY DATA SHEET

1.3.6. CONTRACTOR – APPEARANCE ON DRAWINGS OR IN SPECIFICATIONS FOR ELECTRICAL WORK SHALL REFER TO ELECTRICAL SUB-CONTRACTOR.

1.3.7. RELOCATE – DISCONNECT ELECTRICAL FEEDER, MAKE SAFE (INCLUDING LOCK OUT/TAG OUT), STORE AND PROTECT DEVICE, REINSTALL, REWORK AND EXTEND CONDUIT & WIRE TO NEW LOCATION, RE-ENERGIZE AND TEST.

1.3.8. EQUAL AND EQUIVALENT – TO MEAN OF THE SAME QUALITY, SIZE, NUMBER, VALUE, DEGREE, INTENSITY AND THE ITEMS ARE SIMILAR IN ALL RESPECTS.

1.3.8.1. THE FINAL DECISION OF ACCEPTANCE OF THESE ITEMS WILL BE MADE BY THE ENGINEER.

1.3.8.2. IT SHALL BE UNDERSTOOD THAT FOR ANY SPECIFIED ITEM ON THE DRAWINGS AND/OR IN THE SPECIFICATION, THIS TERM SHALL APPLY.

1.4. ALL WORK SHALL BE PERFORMED UNDER THE PERSONAL SUPERVISION OF A PROJECT SUPERINTENDENT ON-SITE. MAINTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES DURING THE PROJECT.

1.5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SUITABLE FOR THE CONDITIONS AND DUTIES IMPOSED ON THEM AFTER INSTALLATION.

1.5.1. ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL BEAR THE SEAL OF UNDERWRITERS LABORATORIES INC. (UL), OR A SIMILAR CREDIBLE TESTING AGENCY, LABEL WHERE REGULARLY SUPPLIED.

1.5.2. CERTAIN MANUFACTURERS OF MATERIAL AND EQUIPMENT ARE SPECIFIED AND PLANS ARE DETAILED ACCORDING TO THIS MATERIAL. CONTRACTOR SHALL BASE BID ON FURNISHING AND INSTALLING THIS MAKE OF MATERIAL AND EQUIPMENT.

1.5.3. WHERE MORE THAN ONE MAKE OF MATERIAL OR EQUIPMENT IS SPECIFIED, CONTRACTOR SHALL STATE IN BID WHICH MAKE THEY PROPOSE TO FURNISH. SHOP DRAWINGS SHALL BE SUBMITTED ON MATERIAL AND EQUIPMENT TO BE FURNISHED BY CONTRACTOR FOR ENGINEERS APPROVAL.

1.5.3.1. THIS APPROVAL TO BE OBTAINED PRIOR TO SHIPMENT OF EQUIPMENT.

1.6. COORDINATE CONNECTION OF SECONDARY ELECTRICAL SYSTEMS WITH EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. COMPLY WITH REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES, AND CONTROLLING AGENCIES. PROVIDE REQUIRED CONNECTION FOR EACH SERVICE.

1.6.1. CONTRACTOR SHALL VERIFY TRANSFORMER LOCATION AND METERING SCHEME WITH LOCAL UTILITY CO.

1.7. ALL MATERIALS SHALL BE FABRICATED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

1.7.1. THE OWNER AND ENGINEER SHALL DETERMINE WHETHER WORKMANSHIP IS ACCEPTABLE. NO ALLOWANCES WILL BE MADE FOR REWORK OR DELAY DUE TO POOR WORKMANSHIP, COORDINATION DIFFICULTIES, OR INTERFERENCES BETWEEN INVOLVED TRADES.

1.7.2. PERFORM ALL WORK NECESSARY TO PREPARE THE STRUCTURE FOR THE INSTALLATION OF THE WORK. ALL HOLES, OPENINGS AND DAMAGED MATERIALS CREATED DURING CONSTRUCTION SHALL BE REPAIRED AND FINISHED BY EXPERIENCED WORKMEN.

1.7.3. COORDINATE AND SCHEDULE THE WORK WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE NORMAL OPERATIONS AT THE BUILDING.

1.7.3.1. AFTER HOURS WORK IS REQUIRED ON THIS PROJECT.

1.7.3.2. INCLUDE IN THE CONTRACT PRICE THE COST OF AFTER-HOURS WORK AND TEMPORARY PROVISIONS TO MINIMIZE DOWN TIME AND TO MAINTAIN FACILITY IN OPERATING CONDITION. COORDINATE WITH THE OWNER TO DETERMINE THE EXTENT OF THESE REQUIREMENTS PRIOR TO BID.

1.8. RELATED WORK SPECIFIED ELSEWHERE:

1.8.1. ALL DIVISION 1 REQUIREMENT, AND ALL TERMS AND CONDITIONS OF CONTRACT.

1.8.2. REFER TO MECHANICAL SPECIFICATION FOR MECHANICAL WORK TO BE DONE IN CONJUNCTION WITH THE ELECTRICAL WORK. CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, WIRING, JUNCTION BOXES, ETC., REQUIRED FOR HVAC CONTROLS, UNLESS SPECIFICALLY NOTED OTHERWISE.

1.8.3. ALL ELECTRICAL EQUIPMENT AND WIRING PROVIDED UNDER DIVISION 23 SHALL COMPLY WITH THE ELECTRICAL SYSTEM CHARACTERISTICS INDICATED ON THE ELECTRICAL DRAWINGS AND SPECIFIED DIVISION 26.

1.8.4. ELECTRIC CONTROLS, CONTACTORS, STARTERS, PILOT LIGHTS, PUSH BUTTONS, ETC., SHALL BE PROVIDED COMPLETE AS PART OF THE MOTOR, HEATER OR OTHER EQUIPMENT WHICH IT OPERATES. ALL ELECTRICAL COMPONENTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND DIVISION 26.

1.9. WHERE EQUIPMENT SPECIFICATIONS INDICATE THAT A FACTORY-AUTHORIZED SERVICE ENGINEER OR TECHNICIAN SHALL OBSERVE INSTALLATION, TEST & ADJUST, OR START-UP OF EQUIPMENT, ETC.; SUCH SERVICES WILL BE CONTRACTED BY OWNER AS PART OF THE EQUIPMENT PURCHASE.

1.9.1. CONTRACTOR SHALL ARRANGE FOR, SCHEDULE, AND COORDINATE SUCH FIELD SERVICES AS WORK INCLUDED IN THE CONTRACT.

1.9.2. CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY TO SUPPORT ALL SUCH FACTORY REPRESENTATIVE'S FIELD SERVICES.

1.10. REGULARLY DURING EACH WORKING DAY, REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND LEAVE AREA CLEAN AT END OF THE WORK DAY.

1.10.1. PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INSOFAR AS AFFECTED BY ELECTRICAL WORK.

1.10.2. CLEAN ALL LIGHT FIXTURES, LAMPS AND LENSES PRIOR TO FINAL ACCEPTANCE.

1.10.3. CLEAN THE INTERIOR OF EACH ELECTRICAL COMPONENT OF DIRT AND CONSTRUCTION DUST INCLUDING BUT NOT LIMITED TO PANEL BOARDS, CONTROLLERS AND SWITCHES BEFORE ENERGIZING.

1.10.4. EXPOSED FINISHED MATERIALS AND EQUIPMENT SHALL BE CAREFULLY CLEANED AND WIPED TO REMOVE GREASE, SMUDGES, FINGERPRINTS, DUST AND OTHER SPOTS AND LEFT SMOOTH AND CLEAN.

1.10.5. CLEAN THE EXTERIOR OF ELECTRICAL COMPONENTS PRIOR TO ACCEPTANCE OF WORK.

1.10.6. FOR ALL MATERIALS AND DEVICES REMOVED, THE CONTRACTOR SHALL DISPOSE OFF-SITE IN AN APPROVED MANNER. PROVIDE WRITTEN DOCUMENTATION FOR DISPOSAL OF ALL ITEMS.

1.11. PROVIDE ALL LABOR, INSTRUMENTS, AND OTHER SERVICES REQUIRED FOR COMPLETE AND SATISFACTORY TEST AND ADJUSTMENT OF ELECTRICAL SYSTEMS AND RELATED WORK.

1.11.1. CHECK ALL MOTORS AND ROTATING EQUIPMENT FOR PROPER ROTATION.

1.11.2. TEST ALL FEEDERS WITH MEGGER PRIOR TO ENERGIZING TO ASSURE CODE RESISTANCE IS MET, (AND WITHOUT 'SHORTS' OR 'OPEN CIRCUITS').

1.11.3. CHECK ALL FUSES AND OVERLOADS FOR PROPER SIZING. VERIFY FUSE LABELS ARE VISIBLE.

1.11.4. CHECK ALL ELECTRICAL POWER AND CONTROL WIRING, INTERLOCKS, ETC., RELATED TO MECHANICAL EQUIPMENT TO DETERMINE THAT ALL WIRING IS CORRECT.

1.11.5. IMMEDIATELY REMEDIATE ALL EQUIPMENT PROVIDED UNDER THIS DIVISION THAT TESTS PROVE TO BE DEFECTIVE OR OPERATING IMPROPERLY AS A PART OF THIS CONTRACT.

1.12. GUARANTEE ALL ELECTRICAL SYSTEM EQUIPMENT, MATERIALS, AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING DURING THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION AND TO THE SATISFACTION OF THE ENGINEER AND OWNER'S REPRESENTATIVE.

1.13. ALL EQUIPMENT, ETC., SHALL BE NEW UNLESS OTHERWISE NOTED, AND AS SPECIFIED FREE OF DEFECTS. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. OR E.T.L. LISTED.

2. CODES & PERMITS

2.1. ENTIRE INSTALLATION (INCLUDING EQUIPMENT, DEVICES, AND WIRING) SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 70 & NFPA 101), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.), INTERNATIONAL BUILDING CODE (I.B.C), INTERNATIONAL ENERGY CONSERVATION CODE (I.E.C.C.), AND ALL LAWS & ORDINANCES APPLICABLE TO WORK AT THIS SITE. IN ADDITION, INSTALLATION SHALL MEET APPROVAL OF LOCAL INSPECTION AUTHORITY HAVING JURISDICTION. REFER TO COVER SHEET FOR LIST OF CURRENT APPLICABLE CODE EDITIONS.

2.2. SECURE AND PAY ALL FEES ASSOCIATED WITH ALL PERMITS AND LICENSES REQUIRED FOR EXECUTION OF THE CONTRACT. ARRANGE FOR ALL INSPECTIONS REQUIRED BY CITY, COUNTY, STATE AND OTHER AUTHORITIES HAVING JURISDICTION, AND DELIVER CERTIFICATES OF APPROVAL TO THE ARCHITECT.

2.3. A CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY SHALL BE GIVEN TO THE OWNER BEFORE FINAL ACCEPTANCE WILL BE GIVEN BY OWNERS REPRESENTATIVE.

2.4. THE CODE REQUIREMENTS ARE STRICTLY A MINIMUM AND SHALL BE MET WITHOUT INCURRING ADDITIONS TO THE CONTRACT. WHERE REQUIREMENTS OF THE DRAWINGS OR SPECIFICATIONS EXCEED THE CODE REQUIREMENTS, THE WORK SHALL BE PROVIDED IN ACCORDANCE WITH THESE DRAWINGS OR SPECIFICATIONS. IN THE EVENT OF CONFLICT OR AMBIGUITY BETWEEN THE VARIOUS CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

3. SAFETY

3.1. THE CONTRACTOR SHALL MAINTAIN A SAFE WORK ENVIRONMENT AT ALL TIMES.

3.1.1. COMPLY WITH ALL O.S.H.A., N.I.O.S.H., D.O.T., STATE & LOCAL REQUIREMENTS REGARDING SAFE HANDLING, STORING, TRANSPORTING, AND DISPENSING OF CHEMICALS.

3.1.2. MAINTAIN AND DISPLAY M.S.D.S. INFORMATION FOR ALL CHEMICAL PRODUCTS.

3.1.3. PROVIDE ALL NECESSARY MEANS TO MAINTAIN SAFE WORKING CONDITIONS, INCLUDING VENTILATION FANS, FIRE EXTINGUISHERS, EYE PROTECTION, RESPIRATORS, PROTECTIVE CLOTHING, VENTILATION, ETC.

3.1.4. ALL EQUIPMENT AND MATERIALS USED TO IMPLEMENT THE WORK SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING ALL RECOMMENDED SAFETY PRECAUTIONS.

3.1.5. MAINTAIN A PROPER FIRE WATCH FOR ALL OPERATIONS WHERE SPARKS, FLAMES, OR OTHER SOURCES OF FIRE ARE PRODUCED.

3.1.6. FOR ALL MATERIALS CONTAINING SOLVENTS, MAINTAIN THE RECOMMENDED VENTILATION OF THE AREA TO PREVENT THE ACCUMULATION OF VAPORS WHICH POSE A HEALTH OR FIRE HAZARD.

4. INTENT OF DRAWINGS AND SPECIFICATIONS

4.1. THE IMPLIED AND STATED INTENT OF THE DRAWINGS & SPECIFICATIONS ARE TO ESTABLISH MINIMUM ACCEPTABLE STANDARDS FOR MATERIALS, EQUIPMENT, WORKMANSHIP, AND TO PROVIDE OPERABLE SYSTEMS THAT ARE COMPLETE IN EVERY RESPECT.

4.2. ENGINEERING DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT AND SIZES OF SYSTEM COMPONENTS, AND SHALL NOT BE SCALED.

4.2.1. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL GOVERN SPACE CONSTRAINTS, DIMENSIONS AND FINISHES.

4.2.2. ALL OFFSETS AND FITTINGS THAT SHALL BE NECESSARY TO ACCOMPLISH A FINISHED INSTALLATION SHALL BE PROVIDED AT NO ADDITIONAL COST OR INCREASE THE CONTRACT.

4.2.3. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED COMPLETE AS A REQUIREMENT OF THIS CONTRACT.

4.2.4. LOCATIONS OF EQUIPMENT INDICATED ON PLANS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE PLANS SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER TRADES.

4.2.5. MAINTAIN MINIMUM SERVICE CLEARANCE AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND N.E.C.

4.3. PROVIDE THE OWNER A COMPLETE SET OF RECORD DRAWINGS AT THE END OF THE PROJECT. PROJECT WILL NOT BE COMPLETE UNTIL ACCURATE RECORD DRAWINGS ARE DELIVERED.

4.4. THE RECORD DRAWINGS SHALL BE MACHINE DRAFTED, AND SHALL BE PROVIDED ON MAGNETIC MEDIA CAD FILES TO THE ARCHITECT WHICH REFLECT ALL CHANGES, DEVIATIONS AND REVISIONS MADE TO THE ORIGINAL DESIGN DOCUMENTS.

4.5. LOCATIONS OF ALL UNDERGROUND PIPING AND UTILITIES SHALL BE CLEARLY SHOWN AND DIMENSIONED FROM PERMANENT REFERENCE POINTS SUCH AS BUILDING COLUMN LINES.

4.6. DRAWING FORMAT FOR THIS PROJECT SHALL BE AUTOCAD.

4.7. ALL ITEMS MOUNTED IN OR BELOW THE CEILING, AND ALL ITEMS PENETRATING THE CEILING, SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF ANY ITEMS ARE NOT SHOWN ON THESE PLANS, OR ANY ITEMS NEED TO BE RELOCATED FOR COORDINATION PURPOSES, PREPARE A REFLECTED CEILING PLAN SUBMIT IT TO THE ARCHITECT FOR APPROVAL.

5. EXISTING CONDITIONS

5.1. ATTENTION IS CALLED TO THE FACT THAT THE WORK IS TO BE PERFORMED WITHIN AN EXISTING, OPERATIONAL FACILITY.

5.2. THE FOLLOWING GENERAL PROVISIONS OF THE CONTRACT, INCLUDING THE GENERAL & SUPPLEMENTAL CONDITIONS AND GENERAL REQUIREMENTS, SHALL APPLY TO THE WORK IN THIS DRAWING AND SPECIFICATION SET.

5.2.1. VISIT THE SITE OF THE WORK AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS, AND THOROUGHLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND ADDENDA PRIOR TO BIDDING ON THIS WORK. NO EXTRA PAYMENTS TO THE CONTRACT AMOUNT WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

5.2.2. TAKE MEASUREMENTS AND BE RESPONSIBLE FOR EXACT SIZE AND LOCATIONS OF ALL OPENINGS REQUIRED FOR THE INSTALLATION OF WORK.

5.2.3. FIELD DIMENSIONS ARE REASONABLY ACCURATE AND SHOULD GOVERN IN SETTING OUT WORK.

5.2.4. WHERE DETAILED METHOD OF INSTALLATION IS NOT INDICATED OR WHERE VARIATIONS EXIST BETWEEN DESCRIBED WORK AND APPROVED PRACTICE, DIRECTION OF THE OWNERS REPRESENTATIVE ON JOB SITE SHALL BE FOLLOWED.

5.3. CONTRACTOR SHALL VERIFY PROJECT CONDITIONS TO ENSURE THAT THE WORK WILL FIT INTO THE STRUCTURE IN THE MANNER INTENDED ON THE DRAWINGS.

5.3.1. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO FABRICATION OR PERFORMING ANY WORK IN THE AREA INVOLVING THE DIFFERENCES.

5.3.2. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS OR NOTES RELATING TO THE AREA.

5.4. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND WORKMANLIKE MANNER.

5.4.1. WHERE AN EXISTING STRUCTURE MUST BE CUT OR EXISTING UTILITIES INTERFERE, SUCH OBSTRUCTION SHALL BE BYPASSED, REMOVED, REPLACE OR RELOCATED, PATCH AND REPAIR.

5.4.2. WORK DISTURBED OR DAMAGED SHALL BE REPLACED OR REPAIR TO ITS PRIOR CONDITION.

5.5. PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION, CONTRACTOR SHALL REVIEW THE EXISTING SITE AND SECURE THE SERVICES OF A QUALIFIED, EPA CERTIFIED ASBESTOS ABATEMENT AGENCY IF NEEDED TO CHECK THE EXISTING INSULATION, ETC. FOR ASBESTOS. SHOULD ASBESTOS BE FOUND, DO NOT PROCEED WITH DEMOLITION OR CONSTRUCTION; NOTIFY THE ARCHITECT IN ANY CASE IN WRITING OF THE AGENCY'S FINDING.

5.6. FOR RENOVATION PROJECTS – PROVIDE ALL DEMOLITION, PATCHING, SAW CUTTING, EXCAVATION, TRENCHING, SHORING, COMPACTING, DE-WATERING, ETC. REQUIRED FOR THE PROJECT, WHETHER OR NOT SHOWN ON THE DRAWINGS.

5.6.1. INFORMATION WAS TAKEN FROM VARIOUS ARCHIVE DRAWINGS AND LIMITED FIELD OBSERVATION. FIELD VERIFICATION OF EXISTING CONDITIONS AND POINTS OF CONNECTIONS ARE REQUIRED.

5.7. EXISTING SYSTEMS TO REMAIN – WHERE EXISTING SYSTEMS ARE INDICATED TO REMAIN, THEY SHALL BE ASSUMED TO BE IN GOOD WORKING ORDER REQUIRING NO WORK UNLESS SPECIFICALLY NOTED.

5.7.1. IF DURING THE CONSTRUCTION DEFICIENCIES ARE NOTED, THEN BRING THESE TO THE ATTENTION OF THE OWNER AND SEEK DIRECTION.

6. SHOP DRAWINGS, SUBMITTALS, AND SUBSTITUTIONS

6.1. ENGINEER OF RECORD SHALL BE PROVIDED WITH SHOP DRAWINGS, COORDINATION DRAWINGS, AND MANUFACTURER'S DATA OF ANY CONTRACTOR FURNISHED MATERIALS AND EQUIPMENT, PRIOR TO PURCHASE AND/OR FABRICATION, AND SHALL VERIFY, BY STAMPING AND SIGNING THE DATA AND DRAWINGS BEFORE RETURNING THEM TO THE CONTRACTOR, THAT THE ITEMS FURNISHED BY THE CONTRACTOR FIT THE SPACES AND DIMENSIONS DESCRIBED IN AND CONFORM TO THE SPIRIT AND INTENT OF THE CONTRACT DOCUMENTS.

6.1.1. ENGINEER SHALL, WITHIN FIVE (5) WORKING DAYS OF RECEIPT OF SHOP DRAWINGS AND PRODUCT DATA, NOTIFY THE CONTRACTOR OF ANY DISCREPANCY OR INCOMPATIBILITY WITH THE CONTRACT DOCUMENTS, AND SHALL RETURN THE SHOP DRAWINGS TO THE CONTRACTOR APPROPRIATELY ANNOTATED.

6.1.2. REVIEW OF SUBMITTALS SHALL NOT BE CONSTRUED AS AUTHORIZING ANY DEVIATIONS FROM THE PLANS AND SPECIFICATIONS UNLESS SUCH DEVIATIONS ARE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED IN THE FORM OF A LETTER THAT IS ENCLOSED WITH THE SUBMITTALS.

6.1.3. SUBMIT SHOP DRAWING CUT SHEETS AND TECHNICAL DATA ON THE FOLLOWING ITEMS: LIGHTING EQUIPMENT, PANELS, WIRING DEVICES-SWITCHES AND RECEPTACLES, DISCONNECT SWITCHES/SAFETY SWITCHES, MOTOR STARTERS, TRANSFORMERS, AND ANY OTHER ITEM REQUIRED BY NOTES.

6.1.4. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS, FIELD INSTALLATION DRAWINGS AND CERTIFICATIONS AS REQUIRED FOR COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS OF EQUIPMENT. THE SUBMITTAL DATA SHALL PROVIDE AMPLE, UNQUESTIONABLE COMPLIANCE WITH THE CONTRACT DOCUMENTS.

6.1.5. SUBMIT PROPOSED CONTROL SYSTEM FOR REVIEW BY THE ENGINEER PRIOR TO EQUIPMENT PURCHASE OR FABRICATION. DO NOT PROCEED WITH THE WORK WITHOUT APPROVED SUBMITTALS.

6.1.6. WHERE QUALIFICATIONS AND/OR QUALITY ASSURANCE REQUIREMENTS ARE SPECIFIED, THE SUBMITTAL SHALL INCLUDE EVIDENCE THAT THE STATED REQUIREMENTS HAVE BEEN MET. INCLUDE QUALIFICATIONS AND CERTIFICATIONS OF PROPOSED TEST AND BALANCE SUBCONTRACTOR.

6.1.7. EQUIPMENT PERFORMANCE SHALL BE VERIFIED BY THE EQUIPMENT MANUFACTURER AS PART OF THE SUBMITTAL, PRIOR TO ORDERING.

6.1.8. VERIFY EQUIPMENT VOLTAGE AND ELECTRICAL REQUIREMENTS OF THE EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

6.1.9. SHOP DRAWINGS FOR EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL WIRING CONNECTIONS SHALL INCLUDE COMPLETE WIRING DIAGRAMS.

6.2. REFER TO THE CONDITIONS OF THE CONTRACT (GENERAL AND SUPPLEMENTARY WHEN INCLUDED AND OTHER DIVISIONS) REFERENCING SUBMITTALS FOR SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES FOR SUBMITTAL DEFINITIONS, REQUIREMENTS AND PROCEDURES.

6.2.1. IN ADDITION TO DIVISION 01, THE CONTRACTOR IS ADVISED TO REVIEW AND COMPLY WITH THE REQUIREMENTS ARTICULATED WITH IN EACH DIVISION AND WITHIN EACH SECTION OF THAT DIVISION.

6.3. BEFORE PREPARING SUBMITTALS, STUDY ALL CONTRACTS DRAWINGS AND SPECIFICATIONS IN DETAIL, OBTAIN MANUFACTURER'S RECOMMENDED INSTRUCTIONS, AND HAVE SUBMITTALS PREPARED BASED ON SPECIFIC EQUIPMENT AND MATERIAL PROPOSED FOR INSTALLATION.

6.3.1. AN OFFICER OF THE CONTRACTING FIRM SHALL SIGN ALL SHOP DRAWINGS (CERTIFYING CONFORMANCE WITH PLANS AND SPECIFICATIONS) BEFORE SUBMITTING TO THE ARCHITECT OR RELEASING TO THE FIELD.

6.4. THE SUBMITTAL PROCESS SHALL NOT BE UTILIZED AS AN AVENUE TO SUBSTITUTE AFTER THE EXECUTION OF THE CONTRACT.

6.4.1. SHOULD AN UNSPECIFIED OR UNEQUAL PRODUCT BE SUBMITTED, IT WILL BE REJECTED. IF A SECOND ATTEMPT AT SUBSTITUTION IS MADE DURING THE RE-SUBMITTAL OF THE SAME PRODUCT, THEN NO MORE REVIEWS OF THAT PRODUCT WILL BE PERFORMED WITHOUT DIRECT COMPENSATION TO THE ENGINEER BEING PAID FOR THE ADDITIONAL SERVICES REQUIRED FOR THE THIRD REVIEW AND ANY FURTHER REVIEWS.

6.5. IN ADDITION TO THE OTHER REQUIREMENTS IN PARAGRAPHS ABOVE, THE FOLLOWING APPLIES TO SUBMITTALS OF THIS DIVISION:

6.5.1. DO NOT INSTALL OR ORDER ELECTRICAL EQUIPMENT OR PROCEED WITH THE WORK UNTIL SUBMITTALS HAVE BEEN ACCEPTABLY REVIEWED BY THE OWNER'S REPRESENTATIVE AND STAMPED ACCORDINGLY. EQUIPMENT OR WORK WHICH IS ORDERED OR INSTALLED WITHOUT PRIOR APPROVED SUBMITTALS SHALL, AT THE ENGINEER'S DISCRETION, BE REMOVED AT NO COST TO THE OWNER. NO ALLOWANCES WILL BE MADE FOR REWORK OR DELAY DUE TO NEGLECT OF REQUIRED APPROVAL PROCESS.

6.5.2. MAKE ALL ELECTRICAL SUBMITTALS AT ONE TIME AND WITHIN FOURTEEN (14) CALENDAR DAYS OF OWNER'S "NOTICE TO PROCEED".

6.5.3. SUBMITTAL DATA WILL BE PROVIDED AND REVIEWED IN PDF FORMAT ELECTRONICALLY VIA EMAIL.

6.5.4. SUBMITTAL DATA WILL NOT BE ACCEPTED FOR REVIEW UNLESS THEY:

6.5.4.1. COMPLY WITH THE REQUIREMENTS OF DIVISION 1.

6.5.4.2. INCLUDE COMPLETE INFORMATION PERTAINING TO ALL APPURTENANCE AND ACCESSORIES.

6.5.4.3. ARE SUBMITTED AS COMPLETE PACKAGES WHICH PERTAIN TO ALL RELATED ITEMS IN DIVISION 26.

6.5.4.4. ARE PROPERLY MARKED WITH EQUIPMENT, SERVICE OR FUNCTION IDENTIFICATION AS RELATED TO THE PROJECT AND ARE MARKED WITH PERTINENT SPECIFICATION PARAGRAPH NUMBER.

6.5.5. IF ANY ITEM IN THE SUBMITTAL IS "NOT ACCEPTABLE" FOR ANY REASON, IT AUTOMATICALLY VOIDS THE ENTIRE SET, AND A RE-SUBMIT OF ALL IS REQUIRED TO OBTAIN ACCEPTANCE OF ALL ITEMS.

6.5.6. IN CASE OF DISCREPANCIES BETWEEN SETS OF SUBMITTALS, THE SET RETAINED BY THE OWNER'S REPRESENTATIVE SHALL HAVE PRECEDENCE.

6.6. THE FOLLOWING REQUIREMENTS HELP TO IDENTIFY, TRACK AND KEEP THE PROJECT ORGANIZED FOR ALL PARTIES INVOLVED. THEY ARE NECESSARY TO ENSURE A TIMELY TURNAROUND AND AN APPROPRIATE TECHNICAL REVIEW. SUBMITTALS THAT DO NOT CONFORM TO THE ADMINISTRATIVE REQUIREMENTS ARE REJECTED AND RETURNED, WITHOUT TECHNICAL REVIEW.

6.6.1. SUPPLY SUBMITTALS FOR EACH SECTION: SUBMITTALS SHALL BE SUPPLIED ON A SECTION-BY-SECTION AND TYPE-BY-TYPE BASIS. FOR EXAMPLE, INDEPENDENT PRODUCT DATA SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES PRODUCT DATA SUBMITTALS. INDEPENDENT SHOP DRAWING SUBMITTALS SHALL BE FURNISHED FOR EACH SECTION THAT REQUIRES SHOP DRAWINGS. SEPARATE PDF FILE PACKAGES SHALL BE SUPPLIED FOR EACH SECTION, FOR EACH SUBMITTAL TYPE. EACH PDF SHALL REPRESENT A SINGLE STANDALONE SUBMITTAL.

6.6.2. INCLUDE A TRANSMITTAL: TRANSMITTALS SHALL ENUMERATE EACH SUBMITTAL FOR EACH SECTION OF EACH TYPE AND ITERATION.

6.6.3. INCLUDE COVER SHEET/ TITLE PAGE: THE COVER SHEET SHALL INCLUDE THE INFORMATION IDENTIFIED IN THE CONTRACT DOCUMENTS. IT SHALL BE INCLUDED AS THE FIRST PAGE OF EACH ELECTRONIC AND/OR HARDCOPY DOCUMENT-BASED SUBMITTAL.

6.6.4. INCLUDE AN INDEX: THE INDEX SHALL ENUMERATE THE CONTENTS OF 1HE SUBMITTAL.

6.6.5. INCLUDE CHECKLISTS: WHERE CHECKLISTS ARE INCLUDED WITH THE SPECIFICATIONS, COMPLETE AND INCLUDE THEM WITHIN THE APPROPRIATE SUBMITTAL.

6.6.6. SUPPLY COMPLETE SUBMITTALS: COMPLETE SUBMITTALS OF EACH TYPE ARE REQUIRED. PARTIAL SUBMITTALS WILL BE REJECTED. WHERE A SECTION REQUIRES A PRODUCT DATA SUBMITTAL, ALL PRODUCT DATA FOR THAT SECTION SHALL BE SUPPLIED TOGETHER, AT ONE TIME, AS ONE COMPLETE SUBMITTAL. WHEN RE-SUBMITTAL IS REQUIRED (I.E. REVISE AND RESUBMIT) THE REVISED SUBMITTAL SHALL BE MORE COMPLETE, MORE ACCURATE, AND MORE CONTRACT-COMPLIANT THAN ITS REJECTED PREDECESSOR. THE SUBMITTAL NUMBER (FOR EACH SECTION AND TYPE) SHALL INCREMENT FOR EACH SUBSEQUENT SUBMITTAL (DO – ORIGINAL SUBMISSION , 01 – FIRST RESUBMISSION, 02 –SECOND RESUBMISSION, ETC.). RE-SUBMITTALS SHALL INCLUDE A COPY OF THE REVIEWERS COMMENTS SUPPLIED WITH THE PRIOR SUBMITTAL REJECTION AND SHALL BE AMENDED WITH A DESCRIPTION OF THE SPECIFIC ACTION TAKEN TO COMPLY WITH THE REVIEWER'S COMMENTS. THE ABSENCE OF THIS ON RE-SUBMITTAL IS CAUSE FOR REJECTION.

6.6.7. IF EXPRESSLY PERMITTED BY THE OWNER AND THE TERMS OF THE CONTRACT, EDITABLE ELECTRONIC VERSIONS OF PUBLISHED TWO-DIMENSIONAL PLAN DRAWINGS MAY BE MADE AVAILABLE FOR THE CREATION OF SHOP AND AS-BUILT DRAWINGS.

6.6.8. DUE TO THE PROPRIETARY NATURE OF INTERNAL DESIGN SYSTEMS, EDITABLE NATIVE-SOFTWARE VERSIONS OF SOME DRAWINGS, INCLUDING BUT NOT LIMITED TO SYSTEM DIAGRAMS AND DETAILS WILL NOT BE MADE AVAILABLE IN AN EDITABLE FORM. IN THESE CASES, ELECTRONIC VERSIONS OF THE DRAWINGS MAY BE MADE AVAILABLE ONLY IN PDF, JPG OR SIMILAR NON-EDITABLE ELECTRONIC FORM, AT THE SOLE DISCRETION OF THE DESIGN PROFESSIONAL.

6.7. EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS SPECIFIED STANDARD OF QUALITY.

6.7.1. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

6.7.2. ALL COSTS ARISING FROM A SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR MAKING THE SUBSTITUTION, INCLUDING VERIFICATION OF FIT AND ACCESS, FIELD-INSTALLED ACCESSORIES, SUPPORTS, ELECTRICAL REQUIREMENTS, AND REVISIONS TO DOCUMENTS (DESIGN COSTS).

6.8. WHERE MATERIAL OR EQUIPMENT IS IDENTIFIED BY PROPRIETARY NAME, MODEL NUMBER AND/OR MANUFACTURER, FURNISH THE NAMED ITEM OR EQUAL THEREOF. SUBSTITUTED ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND PERFORMANCE AND MUST BE SUITABLE FOR THE AVAILABLE SPACE, REQUIRED ARRANGEMENT AND APPLICATION.

6.8.1. MANUFACTURER'S NAME, SERIES AND MODEL NUMBERS, AS NOTED OR SPECIFIED, ARE FOR THE PURPOSE OF DESCRIBING TYPE, CAPACITY, AND QUALITY OF EQUIPMENT, MATERIALS AND PRODUCTS TO BE USED.

6.8.2. UNLESS "OR EQUAL" IS SPECIFICALLY STATED, BIDS SHALL BE BASED ONLY ON THE SPECIFIED "BASIS OF DESIGN" MANUFACTURER.

6.8.3. THE LISTING OF A PARTICULAR MANUFACTURER AS AN "EQUAL" OR "ACCEPTABLE SUBSTITUTE" MANUFACTURER SHALL NOT BE MISCONSTRUED AS APPROVING NOR ALLOWING THE SUBSTITUTION OF THAT MANUFACTURER'S STANDARD PRODUCT IN PLACE OF THE BASIS DESIGN.

6.8.4. NO CONSIDERATION WILL BE GIVEN TO A PRODUCT WHICH WOULD REQUIRE DIMENSIONAL, SPATIAL OR AESTHETIC CHANGES TO THE PROJECT. "ACCEPTABLE SUBSTITUTE" AND "EQUAL" MANUFACTURERS SHALL ONLY BID THOSE PRODUCTS WHICH EXACTLY MATCH THE SIZE AND OTHER CHARACTERISTIC OF THE SPECIFIED BASIS OF DESIGN.

6.8.5. ANY CHANGES TO OTHER DISCIPLINES AND TRADES OF WORK REQUIRED BY AN "OR EQUAL" OR "SUBSTITUTE" PRODUCT SHALL BE DULY CONSIDERED AND PRICED ACCORDINGLY PRIOR TO BIDDING OR PRICING.

6.8.6. THE DECISION AS TO WHETHER OR NOT A PROPOSED SUBSTITUTE OR "EQUAL" PRODUCT IS ACTUALLY EQUAL TO THAT SPECIFIED SHALL REST SOLELY WITH THE ENGINEER.

6.8.7. REQUEST TO PROVIDE "EQUAL" PRODUCTS IN LIEU OF THOSE SPECIFIED SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AT LEAST TEN (10) DAYS PRIOR TO FINAL PRICING AND EXECUTION OF THE CONTRACT. NO CONSIDERATION WILL BE GIVEN TO SUBSTITUTE PRODUCTS AFTER FINAL PRICING AND EXECUTION OF THE CONTRACT.

6.8.8. ANY "OR EQUAL" PRODUCT OR PROPOSED PRODUCTION SUBSTATION WHICH WILL CAUSE A CHANGE IN THE APPEARANCE, DIMENSIONS OR DESIGN OF ANY PART OF THE BUILDING, IF STRUCTURE, ELECTRICAL SYSTEM OR ANY OTHER ENGINEERED SYSTEM SHALL BE ACCOMPANIED BY A SCALED DRAWING AND WRITTEN DESCRIPTION OF THE REQUIRED CHANGES(S) FOR APPROVAL BY THE ARCHITECT.

6.8.9. IF DEEMED NECESSARY BY ARCHITECT, DESIGN CHANGES SHALL BE SIGNED AND SEAL BY A REGISTERED PROFESSIONAL ENGINEER, CURRENTLY LICENSED IN THIS STATE.

7. INSTALLATION

7.1. PROVIDE ALL EQUIPMENT FOR THIS CONTRACT NEATLY AND WITH WORKMANSHIP AS DEFINED BY N.E.C.A. "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION", LEVEL AND PLUMB, AND SECURELY SUPPORTED.

7.1.1. THE ENTIRE INSTALLATION, AND MANNER OF INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR IT SHALL BE REMOVED AND REWORKED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AS INCLUDED IN THE CONTRACT AMOUNT.

7.2. CONTRACTOR SHALL CONSULT PLUMBING, HVAC, AND STRUCTURAL PLANS (WHERE APPLICABLE) IN ALL INSTANCES BEFORE INSTALLING WORK SO THAT WORK WILL NOT INTERFERE WITH THOSE BRANCHES.

7.2.1. IN THE EVENT OF A CONFLICT, CONTRACTOR SHALL REPORT TO THE OWNERS REPRESENTATIVE AT ONCE AND DO NO FURTHER WORK UNTIL A SATISFACTORY ARRANGEMENT IS DECIDED UPON.

7.2.2. ANY WORK DONE, OR EQUIPMENT PLACED IN POSITION, BY CONTRACTOR THAT CREATES A CONFLICT IN VIOLATION HEREOF, SHALL BE READJUSTED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR. THE DECISION OF THE OWNERS REPRESENTATIVE SHALL BE FINAL IN REGARD TO CHANGES DUE TO CONFLICTING CONDITIONS.

7.2.3. CONTRACTOR SHALL COMPLETE WORK OR ANY PART THEREOF AT SUCH TIME AS MAY BE DESIGNATED BY THE OWNER, SO THAT IT CAN BE USED FOR TEMPORARY OR PERMANENT USE AND SUCH USE OF THE SYSTEM SHALL NOT BE CONSTRUED AS AN ACCEPTANCE OF SAME BY OWNER.

7.2.4. VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT AND SYSTEMS WITH DIV. 23 CONTRACTOR PRIOR TO ORDERING.

7.2.5. COORDINATION OF SPACE REQUIREMENTS WITH RESPECT TO DIVISION 23 SHALL BE PERFORMED SUCH THAT:

7.2.5.1. NO EQUIPMENT, PIPING OR DUCTWORK, OTHER THAN ELECTRICAL, SHALL BE INSTALLED WITHIN 42" OF SWITCHBOARDS OR PANELBOARDS.

7.2.5.2. NO PIPING OR DUCTWORK WHICH EVER OPERATES AT A TEMPERATURE IN EXCESS OF 120 DEGREES F.

7.3. TWO SETS OF ELECTRICAL DRAWINGS SHALL BE PROVIDED AS RECORD DRAWINGS WHICH SHALL BE SEPARATE, CLEAN, COPIES RESERVED FOR THE PURPOSE OF SHOWING A COMPLETE PICTURE OF THE WORK AS ACTUALLY INSTALLED.

7.3.1. DRAWINGS SHALL ALSO SERVE AS WORK PROGRESS REPORT SHEETS AND THE ELECTRICAL CONTRACTOR SHALL MAKE ANY NOTATIONS, NEAT AND LEGIBLE THEREON DAILY AS WORK PROCEEDS.

7.3.2. DRAWINGS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES AND SHALL BE KEPT AT THE JOB AT A LOCATION DESIGNATED BY THE OWNERS REPRESENTATIVE.

7.3.3. AT THE COMPLETION OF THE WORK, THESE RECORD DRAWINGS SHALL BE SIGNED BY THE ELECTRICAL CONTRACTOR, DATED AND RETURNED TO THE OWNERS REPRESENTATIVE. FINAL PAYMENT OF CONTRACT WILL NOT BE MADE UNTIL RECEIPT AND REVIEW OF SAID DRAWINGS.

7.4. PROVIDE ALL ROOF, WALL, AND FLOOR PENETRATIONS REQUIRED TO COMPLETE INSTALLATION AND REMOVAL OF WORK (MAINTAIN FIRE RATING OF EXISTING STRUCTURE).

7.4.1. ALL PENETRATIONS SHALL BE PATCHED AND FINISHED TO MATCH SURROUNDING SURFACES AND FINISHES.

7.4.2. ALL EQUIPMENT OR PIPE PENETRATIONS THROUGH WALL, ROOF AND FLOORS SHALL BE SLEEVED AND SEALED SO AS TO BE WATER AND AIR TIGHT.

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E6.0
ELECTRICAL SPECIFICATION 1

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

DIVISION 26 - ELECTRICAL SPECIFICATIONS (CONTINUED)

7.4.3. ALL ROOF CUTS AND REPAIRS SHALL BE PERFORMED BY OWNER APPROVED ROOFING CONTRACTOR IN ORDER TO MAINTAIN ROOF WARRANTY.

7.5. CUTTING OF HOLES THROUGH CONCRETE AND MASONRY SHALL BE BY DIAMOND CORE CONCRETE SAW.

7.5.1. PNEUMATIC HAMMER, IMPACT ELECTRIC AND HAND OR MANUAL HAMMER TYPE DRILLS WILL NOT BE ALLOWED, EXCEPT AS PERMITTED BY THE ARCHITECT WHERE REQUIRED BY LIMITED WORKING SPACE.

7.5.2. LOCATE HOLES SUCH THAT THEY WILL NOT AFFECT STRUCTURAL SECTIONS SUCH AS RIBS OR BEAMS. HOLES SHALL BE LAID OUT WELL IN ADVANCE OF THE INSTALLATION. THESE LAYOUT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DRILLING.

7.6. PROVIDE ALL EXCAVATION AND TRENCHING TO THE CORRECT ELEVATIONS, FOR THE INSTALLATION OF ALL PIPING, MANHOLES, CATCH BASINS AND FOUNDATIONS INCLUDED UNDER THIS DIVISION OF THE WORK.

7.7. PROVIDE ALL BACKFILL IN STRICT ACCORDANCE WITH THE EXCAVATION AND BACKFILL SECTION OF DIVISION 1 SPECIFICATIONS.

7.7.1. EXCAVATE PIPE TRENCH. HAND DIG IN ALL AREAS WHERE EXISTING UTILITIES EXIST. HAND TRIM EXCAVATION FOR ACCURATE PLACEMENT OF PIPE TO ELEVATIONS INDICATED.

7.7.1.1. PROVIDE NECESSARY SHEETING AND SHORING TO COMPLY WITH O.S.H.A. REGULATIONS FOR SAFETY IN THE TRENCH.

7.7.2. PLACE BEDDING MATERIAL AT TRENCH BOTTOM, LEVEL MATERIALS IN CONTINUOUS LAYER NOT EXCEEDING 6 INCHES COMPACTED DEPTH, COMPACT TO 95 PERCENT.

7.7.2.1. MAINTAIN OPTIMUM MOISTURE CONTENT OF BEDDING MATERIAL TO ATTAIN REQUIRED COMPACTION DENSITY.

7.7.3. BACKFILL MATERIAL SHALL BE CLEAN EARTH FILL COMPOSED OF SAND, SLIGHTLY SILTY SAND, SAND AND ROCK, CRUSHED ROCK, OR AN APPROVED COMBINATION THEREOF.

7.7.3.1. THE BACKFILL MATERIAL SHALL HAVE NO MORE THAN 12 PERCENT PASSING THE NUMBER 200 SIEVE UNLESS APPROVED BY THE OWNER AND AHJ.

7.7.3.2. WHEN TRENCHES ARE CUT IN PAVEMENTS OR AREAS TO BE PAVED, COMPACTION AS DETERMINED BY ASSHTO SPECIFICATION T–180 (MODIFIED), SHALL BE NOT LESS THAN 98 PERCENT OF MAXIMUM DENSITY. ALL OTHER LOCATIONS SHALL BE 95 PERCENT.

7.7.3.3. DENSITY TESTS FOR CONFORMANCE TO THE COMPACTION REQUIREMENTS SHALL BE MADE BY TESTING LABORATORY SELECTED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR. TESTS SHALL BE MADE EVERY 100 FEET OR LESS, MINIMUM TWO TESTS PER SITE. IF ANY TEST RESULTS ARE UNSATISFACTORY,

7.7.3.4. THE CONTRACTOR SHALL RE–EXCAVATE AND RE–COMPACT THE BACKFILL AT HIS EXPENSE UNTIL THE DESIRED COMPACTION IS OBTAINED.

7.7.4. PAVEMENT OR ROADWAY SURFACES CUT OR DAMAGED SHALL BE REPLACED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL, INCLUDING STABILIZATION, BASE COURSE, SURFACE COURSE, CURB AND GUTTER, OR OTHER APPURTENANCES.

7.7.4.1. WHERE EXISTING PAVEMENT IS REMOVED, THE SURFACING SHALL BE MECHANICALLY SAW CUT PRIOR TO TRENCH EXCAVATION, LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING.

7.7.4.2. THE WIDTH OF THE PAVEMENT REMOVAL SHALL BE THE MINIMAL NECESSARY TO ALLOW FOR INSTALLATION OF THE NEW UTILITIES.

7.7.4.3. THE PAVING WORK SHALL BE GUARANTEED FROM DEFECTS IN WORKMANSHIP, INCLUDING SETTLING, FOR TWO YEARS.

7.8. ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.N.T., BX, NM, ETC. OR PRE–MANUFACTURED CABLE ASSEMBLIES OR ALUMINUM WIRE WILL NOT BE PERMITTED.

7.9. VERIFY FINAL LOCATIONS FOR ROUGH–INS WITH SHOP DRAWING SUBMITTALS, FIELD MEASUREMENTS, AND WITH REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED PRIOR TO ROUGH–IN.

7.9.1. REFER TO EQUIPMENT SPECIFICATIONS AND DIMENSIONS SPECIFIED FOR ROUGH–IN REQUIREMENTS.

7.10. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK.

7.10.1. PATCH EXISTING FINISHED AND DISTURBED NEW FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS & EXPERIENCED INSTALLERS. INSTALLERS' QUALIFICATIONS REFER TO THE MATERIALS AND METHODS REQUIRED OR THE SURFACE AND BUILDING COMPONENTS BEING PATCHED.

7.10.2. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR CUTTING AND PATCHING WORK THAT IS NECESSITATED BY ILL–TIMED, DEFECTIVE OR NON–CONFORMING INSTALLATIONS. ANY DAMAGE DONE BY THIS CONTRACTOR TO THE BUILDING DURING THE PROGRESS OF WORK SHALL BE MADE GOOD AT CONTRACTOR'S OWN EXPENSE.

7.11. EQUIPMENT IDENTIFICATION FOR ELECTRICAL SYSTEMS

7.11.1. PROVIDE MANUFACTURER'S STANDARD SELF–ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS THICK BY 1–1/2" WIDE. WHERE APPLICABLE, INSTALL ON ALL CONCEALED RACEWAYS AT CONNECTION TO ALL JUNCTION BOXES, PULL BOXES, EQUIPMENT, WALL/FLOOR/ROOF PENETRATIONS, ETC. UNLESS OTHERWISE INDICATED OR REQUIRED BY GOVERNING REGULATIONS.

7.11.1.1. PROVIDE ORANGE TAPE WITH BLACK LETTERS.

7.11.1.2. PROVIDE CIRCUIT IDENTIFICATION BANDS FOR ALL CABLES AND CONDUCTORS. PROVIDE MANUFACTURERS STANDARD COLOR CODING FOR CABLE/CONDUCTOR JACKET AND/OR INSULATION FOR ALL CABLES AND CONDUCTORS OF ALL SYSTEMS.

7.11.1.3. MATCH IDENTIFICATION WITH MARKING SYSTEM USED IN EXISTING SYSTEMS (WHERE APPLICABLE), SHOP DRAWINGS, CONTRACT DOCUMENTS, AND SIMILAR PREVIOUSLY ESTABLISHED IDENTIFICATION FOR ELECTRICAL WORK. PROVIDE ON ALL CONDUCTORS OF ALL SYSTEMS.

7.5.1. PROVIDE ENGRAVED PLASTIC–LAMINATE SIGN ON MAJOR UNITS OF ELECTRICAL EQUIPMENT, INCLUDING PANELBOARDS, DISCONNECTS, STARTERS, CONTROL PANELS, ETC. EXCEPT AS OTHERWISE INDICATED,

7.5.1.1. PROVIDE SINGLE LINE OF TEXT, 112" HIGH LETTERING, ON 1–1/2" HIGH SIGN (2" HIGH WHERE 2 LINES ARE REQUIRED).

7.5.1.2. MAKE NAMEPLATES FROM WHITE ENGRAVING STOCK WITH BLACK LETTERS AND BLACK FOUR EDGE BEVEL.

7.5.1.3. WORDING SHALL SUITABLY DESCRIBE ITEMS SUCH AS PANEL ID, SOURCE OVER CURRENT PROTECTION DEVICE, AND VOLTAGE.

7.5.1.4. NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS STEEL BOLTS, LOCK WASHERS AND NUTS. GLUE ON,

7.5.1.5. TAPE ON, OR TAPE TYPE NAMEPLATES ARE NOT ACCEPTABLE FOR THE EQUIPMENT.

7.5.1.6. PROVIDE CIRCUIT NUMBERS (PANEL–#) ON EACH RECEPTACLE USING TAPE TYPE IDENTIFICATION AT EACH RECEPTACLE OR OTHERS WHERE IDENTIFIED.

7.5.1.7. PROVIDE TEXT MATCHING TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.

7.5.1.8. SECURE TO SUBSTRATE WITH FASTENERS, EXCEPT USE ADHESIVE WHERE FASTENERS SHOULD NOT OR CANNOT PENETRATE SUBSTRATE.

7.5.2. ALL EQUIPMENT AND SYSTEM IDENTIFICATION NOMENCLATURE SHOWN ON DRAWINGS OR LISTED HEREIN IS SHOWN FOR GENERAL DESIGN AND INSTALLATION REFERENCE ONLY. THE ACTUAL NAMEPLATE, ETC. NOMENCLATURE FOR THIS PROJECT SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR IN FIELD PRIOR TO FABRICATION AND WHERE APPLICABLE, SHALL BE AN EXTENSION OF EXISTING NOMENCLATURE USED ON THE SITE AS DETERMINED IN FIELD BY ELECTRICAL CONTRACTOR.

7.5.3. EQUIPMENT TO BE LABELED:

7.5.3.1. ALL ENCLOSURES FOR ALL ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED UNDER DIVISIONS 26 AND 28

7.5.3.2. REMOTE–CONTROLLED SWITCHES

7.5.3.3. DIMMER MODULES

7.5.3.4. CONTROL DEVICES VIA ENGRAVED WALL PLATES

7.5.3.5. MISCELLANEOUS CONTROL STATIONS

7.5.3.6. ACCESS DOORS AND PANELS FOR CONCEALED ELECTRICAL ITEMS

7.5.3.7. OTHER SIMILAR EQUIPMENT DESIGNATED BY OWNER'S REPRESENTATIVE, ARCHITECT OR ENGINEER IN FIELD.

7.6. BEARINGS THAT REQUIRE LUBRICATION SHALL BE LUBRICATED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7.7. ALL COILS SHALL BE THOROUGHLY CLEANED AND COMBED PRIOR TO FINAL INSPECTION.

7.8. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR ELECTRICAL INSTALLATIONS.

7.9. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED–IN–PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

7.10. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING.

7.11. THE EXACT MOUNTING HEIGHT OF DEVICES SHALL BE DETERMINED IN THE FIELD WITH RELATION TO ARCHITECTURAL DETAILS AND EQUIPMENT BEING SERVED.

7.11.1. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO COORDINATE OUTLET LOCATION WITH EQUIPMENT. OWNERS REPRESENTATIVE SHALL BE PERMITTED TO RELOCATE ANY OUTLET PRIOR TO INSTALLATION WITHIN A 15 FOOT LIMIT AT NO ADDITIONAL CHARGE IN CONTRACT PRICE.

7.11.2. ALL FASTENERS, HANGERS, AND METHODS OF HANGING EXPOSED WORK IN FINISHED AREAS SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR APPROVAL BEFORE INSTALLATION.

7.11.3. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.

7.12. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.

7.13. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT–OF–WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.

7.14. ALL NEW ELECTRICALLY RELATED WORK SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURAL MEMBERS. NEW ELECTRICAL RELATED WORK SHALL NOT BE SUPPORTED FROM DUCTWORK, DUCTWORK HANGER, CEILING SUPPORTS, EXISTING CONDUIT SUPPORT, ETC.

7.15. TOUCH–UP PAINTING: CLEAN FIELD WELDS AND ABRADED AREAS OF SHOP PAINT. PAINT EXPOSED AREAS IMMEDIATELY AFTER ERECTING HANGERS AND SUPPORTS. USE SAME MATERIALS AS USED FOR SHOP PAINTING.

8. RACEWAYS

8.1. EXTENT OF RACEWAY WORK IS INDICATED DIAGRAMMATICALLY ON THE DRAWINGS OR IN THE SCHEDULES. CONTRACTOR SHALL ONLY PROVIDE TYPE REQUIRED FOR APPLICATION.

8.2. INSTALL ALL WIRING IN CONDUIT (EXCEPT WHERE NOTED UNDER WIRE AND CABLE) AND PROVIDE EMPTY CONDUIT FOR SPECIAL SYSTEMS DESCRIBED ELSEWHERE.

8.3. ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE 3/4" MINIMUM. ALL EXTERIOR UNDERGROUND CONDUIT SHALL BE 1" MINIMUM.

8.4. SUPPORT ALL CONDUIT NOT EMBEDDED IN CONCRETE OR MASONRY SO THAT STRAIN IS NOT TRANSMITTED TO OUTLET BOXES AND PULL BOXES, ETC. SUPPORTS TO BE SUFFICIENTLY RIGID TO PREVENT DISTORTION OF CONDUITS DURING WIRE PULLING.

8.5. WHEN SIZE IS NOT INDICATED ON PLANS, CONDUIT SHALL BE SIZED FOR CONDUCTORS IN ACCORDANCE WITH TABLES 3(A)(B)(C), CHAPTER 9 OF THE N.E.C..

8.6. THE ROUTING AND METHOD OF INSTALLATION OF CONDUITS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT INSTALLATIONS. COORDINATED INSTALLATION SHALL MEET THE COMPLETE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR SHALL BE REINSTALLED AT NO COST TO THE OWNER.

8.7. THE USE OF INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL NON–METALLIC TUBING (ENT), ARMORED CABLE (AC), METAL CLAD (MC), OR MANUFACTURED CABLE ASSEMBLIES SHALL NOT BE INCORPORATED INTO THE WORK, UNLESS NOTED OTHERWISE. SHOULD CONTRACTOR FAIL TO UTILIZE APPROVED RACEWAYS, OWNER'S REPRESENTATIVE CAN REQUEST THE REMOVAL AND REPLACEMENT OF ALREADY INSTALLED RACEWAY AT NO COST TO THE OWNER.

8.8. USE ONLY THE TYPES OF RACEWAYS SPECIFIED HEREIN.

8.8.1. TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

8.8.1.1. ELECTRICAL METALLIC TUBING (EMT); GALVANIZED STEEL; MINIMUM TRADE SIZE 3/4".

8.8.1.2. FLEXIBLE METAL CONDUIT (FMC). MINIMUM TRADE SIZE 3/4".

8.8.1.3. LIQUID–TIGHT FLEXIBLE METAL CONDUIT (LFMC), (SEALTIGHT) MINIMUM TRADE SIZE 3/4".

8.8.1.4. RIGID METALLIC CONDUIT (RMC). MINIMUM TRADE SIZE 3/4".

8.8.1.5. RIGID NON–METALLIC CONDUIT (PVC). SCHEDULE 40, MINIMUM TRADE SIZE 3/4".

8.9. TYPE MC (METAL–CLAD) CABLE: FORM FROM CONTINUOUS LENGTH OF SPIRALLY WOUND, INTERLOCKED ZINC–COATED OR GALVANIZED (INSIDE AND OUTSIDE) STRIP STEEL OR ALUMINUM JACKET, WITH STRANDED COPPER CONDUCTORS WITH 75 DEG. C THHN INSULATION SYSTEM.

8.9.1. PROVIDE FOR FINAL CONNECTIONS TO LIGHT FIXTURES THAT ARE INSTALLED IN ACCESSIBLE TILE CEILING SYSTEMS (LIMITED TO 6' MAXIMUM IN LENGTH AND LIMITED TO "WHIPS" FROM BUILDING ELECTRICAL SYSTEM JUNCTION BOXES DOWN TO LIGHT FIXTURES).

8.9.1.1. DO NOT INSTALL TYPE MC CABLE FROM FIXTURE TO FIXTURE UNLESS A SPECIAL PROPERLY LISTED AND LABELED UL APPROVED SYSTEM IS SPECIFICALLY INDICATED.

8.9.2. PROVIDE FOR NEW 15 AND 20 AMPERE BRANCH CIRCUIT DROPS TO OUTLETS IN EXISTING HOLLOW PARTITIONS FOR REMODELING WORK. THIS APPLIES ONLY UNDER ALL OF THE FOLLOWING CIRCUMSTANCES AND CONDITIONS:

8.9.2.1. BASIS OF DESIGN INCLUDES CUTTING AND PATCHING FOR SUCH APPLICATIONS. TYPE MC CABLE MAY BE USED ONLY WHERE OWNER OR ARCHITECT SPECIFICALLY DIRECTS INSTALLER CASE–BY–CASE NOT TO SLOT WALLS (LIMITED TO 10 FEET MAXIMUM CABLE LENGTH FROM OVERHEAD CONDUIT SYSTEM JUNCTION BOX TO RESPECTIVE WALL OUTLET BOX); PROVIDE ONLY WHERE CONCEALED (INSTALL WIRING FOR EXPOSED APPLICATIONS IN RACEWAY).

8.9.3. PROVIDE FOR NEW 15 THROUGH 30 AMPERE BRANCH CIRCUIT WORK. THIS APPLIES ONLY UNDER ALL OF THE FOLLOWING CIRCUMSTANCES AND CONDITIONS:

8.9.3.1. PROVIDE ONLY WHERE CONCEALED (INSTALL WIRING FOR EXPOSED APPLICATIONS IN RACEWAY)

8.10. RACEWAY FITTINGS

8.10.1. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS. DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE.

8.10.2. FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON.

8.10.3. FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE.

8.10.4. FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE–ON TYPE.

8.11. INSTALLATION OF RACEWAYS

8.11.1. PROVIDE ALL CONDUITS CONCEALED, EXCEPT IN EQUIPMENT ROOM, CHASES OR AS INDICATED ON THE DRAWINGS. ALL CONDUITS, EXPOSED AND CONCEALED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND GROUPED TOGETHER AS MUCH AS POSSIBLE, EVEN ABOVE LAY–IN CEILINGS.

8.11.2. HOLD ROUTING OF NEW RACEWAYS IN NEW AND EXISTING BUILDINGS AS TIGHTLY AS POSSIBLE TO THE STRUCTURE ABOVE. OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. DO NOT INSTALL ANY ELECTRICAL WORK WITHIN 6 INCHES OF ROOF DECKING.

8.11.3. CONDUIT SHALL BE CLEANED INSIDE BEFORE ANY WIRES ARE PULLED. CONDUIT ENDS SHALL BE CAPPED AND PLUGGED WITH STANDARD ACCESSORIES AS SOON AS CONDUIT HAS BEEN PERMANENTLY INSTALLED. ALL RACEWAYS SHALL BE ENTIRELY FREE OF PLASTER, MORTAR, WATER AND OTHER FOREIGN MATTER BEFORE INSTALLING CONDUCTORS OR CABLES.

8.11.4. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL RUNS. WHERE SIZES LARGER THAN #12 AWG ARE REQUIRED BY THE NEC, THE CONDUCTOR SHALL BE SIZED AS INDICATED IN THE NEC. ALL GROUNDING CONDUCTORS SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE OVER THEIR ENTIRE EXPOSED LENGTHS.

8.11.5. ALL JOINTS SHALL BE MADE TIGHT WITH WATERTIGHT COUPLINGS MATCHING CONDUIT AND ALL CORNERS SHALL BE MADE WITH LONG RADIUS ELBOWS. THE ENDS OF ALL CONDUITS SHALL BE CUT SQUARE AND REAMED AND ALL JOINTS BROUGHT TO A SHOULDER. CONDUIT SHALL BE CONTINUOUS BETWEEN OUTLETS LO MAKE A COMPLETE INSTALLATION AND TO PROVIDE A CONTINUOUS GROUND.

8.11.6. MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT BONDS TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.

8.11.7. AVOID USE OF DISSIMILAR METALS THROUGH SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.

8.11.8. PROVIDE EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.

8.11.9. PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS. (MINIMUM 90# TENSILE STRENGTH).

8.11.10. CONDUIT INSTALLATION (EXCEPT AS NOTED) USE:

8.11.10.1. RIGID METAL CONDUIT (RMC) FOR ALL WEATHER EXPOSED WORK, FOR ALL STUB–UPS IN WET/DAMP AREAS, FOR ALL ROOF PENETRATIONS AND FOR ANY FREEZER/ COOLER PENETRATIONS.

8.11.10.2. E.M.T. FOR ALL INTERIOR CONCEALED AND FOR INTERIOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.

8.11.10.3. P.V.C. FOR ALL UNDERGROUND WORK OR WORK INSTALLED IN CONCRETE AND USE RIGID METAL CONDUIT ELBOW AT STUB–UP LOCATIONS.

8.11.10.4. FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION.

8.11.10.5. LIQUID–TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE FOLLOWING CONDITIONS:

8.11.10.5.1. EXTERIOR LOCATION.

8.11.10.5.2. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.

8.11.10.5.3. CORROSIVE ATMOSPHERE.

8.11.10.5.4. SUBJECTED TO WATER SPRAY OR DRIPPING OIL, WATER OR GREASE.

8.11.10.5.5. FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT.

8.11.10.5.6. USE RIGID METALLIC CONDUIT FOR TRANSITION AT ANY STUB–UP LOCATION WHERE PVC ARE INSTALLED FOR UNDERGROUND WORK.

8.11.11. CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS FOR HEAVY WALL CONDUIT DEEP AND CLEAN INTERIOR AND EXTERIOR THREADS, FIELD GALVANIZE THREADS WITH APPROVED COMPOUND FOR THE PURPOSE.

8.11.12. FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE TO PREVENT DISTORTION NOR VARY INTERNAL DIAMETER.

8.11.13. ONLY INSTALL CONDUIT EXPOSED ON ROOFTOPS WHEN IT IS IMPOSSIBLE TO DO OTHERWISE, OR ONLY IF SPECIFICALLY INDICATED FOR SUCH INSTALLATION CASE–BY–CASE ELSEWHERE IN DOCUMENTS. INSTALLATION CONVENIENCE, FINANCIAL CONSIDERATIONS, LACK OF COORDINATION WITH OTHER TRADES AND SIMILAR RATIONALE ARE NOT SUFFICIENT REASONS FOR DOING SO.

8.11.13.1. IN CASES WHERE CONDUITS MUST BE INSTALLED ON ROOFTOPS, DE–RATE CONDUCTORS AND MODIFY CONDUIT SIZES AS NEEDED TO ACCOMMODATE THIS CONDITION.

8.11.13.2. PROVIDE EXPANSION FITTINGS, WHICH ARE UL LISTED AND LABELED FOR THE RESPECTIVE APPLICATIONS, AT ALL BUILDING EXPANSION JOINTS AND AT MAXIMUM DISTANCES OF 100 FEET.

8.11.13.3. PAINT ALL SUCH CONDUITS WITH AT LEAST TWO COATS OF UV–RESISTANT WEATHERPROOF PAINT. PROVIDE WHITE PAINT ON FLAT ROOFTOPS THAT HAVE FINISHES WHITE IN COLOR, AND FOR OTHERWISE–COLORED ROOF FINISHES THAT ARE NOT VISIBLE FROM THE BUILDING INTERIOR OR FROM THE GROUND OUTDOORS. ELSEWHERE SELECT COLORS TO MATCH SURROUNDING SURFACES. SUBMIT COLORS TO ARCHITECT FOR REVIEW IN ADVANCE OF PROCURING PAINT.

8.11.14. CONDUITS PASSING THROUGH STRUCTURAL MEMBERS SHALL BE PROVIDED WITH STUB AND COUPLING OR SLEEVE IN THE MEMBER.

8.11.15. WHERE MOISTURE CONDITIONS ARE ENCOUNTERED, A HOLE SHALL BE DRILLED AT THE LOWEST POINT IN THE CONDUIT RUN.

8.11.16. PROVIDE SLEEVES FOR ALL FIRE WALL AND SMOKE PARTITION PENETRATIONS (SEALED ACCORDINGLY).

8.11.17. OVERHEAD ELECTRIC WORK: INSTALL WORK SO THAT NO RACEWAY OR CABLE IS WITHIN SIX INCHES BELOW ROOF DECK(S). SUSPEND AND SUPPORT OVERHEAD ELECTRICAL WORK FROM ROOF TRUSSES AND JOISTS/JOIST GIRDERS ONLY AT PANEL POINTS, AT TOP CORD ONLY, UNLESS OTHERWISE INDICATED.

8.11.17.1. STRENGTH OF SUPPORT ASSEMBLIES: WHERE NOT INDICATED, SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY PRESENT AND FUTURE STATIC LOADS WITHIN SPECIFIED LOADING LIMITS. MINIMUM STATIC DESIGN LOAD USED FOR STRENGTH DETERMINATION SHALL BE WEIGHT OF SUPPORTED COMPONENTS PLUS 200 LBS.

9. HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

9.1. PROVIDE SUPPORTS FOR MULTIPLE RACEWAYS CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, EQUIPMENT, CONNECTED SYSTEMS AND ASSOCIATED COMPONENTS/CONTENTS. PROVIDE SUPPORTS ADEQUATE IN TENSION, SHEAR, AND PULLOUT FORCE TO RESIST MAXIMUM LOADS CALCULATED OR IMPOSED FOR THIS PROJECT, WITH A MINIMUM STRUCTURAL SAFETY FACTOR OF FIVE TIMES THE APPLIED FORCE.

9.2. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SUPERVISE THE INSTALLATION OF AND PAY FOR ALL ADDITIONAL MATERIAL, WOOD OR METAL, AND LABOR WHICH MAY BE REQUIRED TO SUPPORT ANY TYPE OF PERMANENT OR TEMPORARY ELECTRICAL APPARATUS EMPLOYED IN THE EXECUTION OF THE ELECTRICAL CONTRACTOR'S WORK.

9.3. PROVIDE SUPPORTS, ANCHORS, SLEEVES, AND SEALS FURNISHED AS PART OF FACTORY–FABRICATED EQUIPMENT AS REQUIRED.

9.3.1. ALL CONDUIT SHALL BE SUPPORTED INDEPENDENTLY FROM ALL OTHER BUILDING SYSTEMS AND SHALL BE SUPPORTED DIRECTLY FROM STRUCTURAL COMPONENTS.

9.3.2. ELECTRICALLY RELATED WORK SHALL NOT BE SUPPORTED FROM DUCTWORK, DUCTWORK HANGERS, CEILING SUPPORTS. EXISTING CONDUIT SUPPORTS, ETC.

9.4. ALL PARTS AND HARDWARE USED FOR SUPPORT OF EQUIPMENT, CONDUITS AND FITTINGS, SHALL BE GALVANIZED.

9.5. MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE–TYPE SUPPORTS FABRICATED WITH STEEL SLOTTED "KINDORF" CHANNELS, SIZED SO CAPACITY CAN BE INCREASED BY AT LEAST 50 PERCENT IN FUTURE WITHOUT EXCEEDING SPECIFIED DESIGN LOAD LIMITS. SECURE RACEWAYS AND CABLES TO THESE SUPPORTS WITH TWO–BOLT CONDUIT CLAMPS, SINGLE–BOLT CONDUIT CLAMPS, OR SINGLE–BOLT CONDUIT CLAMPS USING SPRING FRICTION ACTION FOR RETENTION IN SUPPORT CHANNEL AS APPLICABLE.

9.6. CONDUIT SHALL BE SUPPORTED BY APPROVED STRAPS, FASTENERS AND HANGERS.

9.6.1. HANGERS SHALL BE SUSPENDED FROM THREADED RODS.

9.6.2. PERFORATED STRAPS WILL NOT BE ACCEPTABLE.

9.6.3. FASTENERS SHALL BE LEAD EXPANSION SHIELDS IN BLOCK OR CONCRETE, TOGGLE BOLTS IN HOLLOW WALLS, MACHINE SCREWS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION,

9.6.4. FASTEN PIPE STRAPS AND HANGERS TO CONCRETE USING INSERTS OR EXPANSION BOLTS AND TO HOLLOW MASONRY USING TOGGLE BOLTS. WOODEN PLUGS AND SHIELDS WILL NOT BE PERMITTED. ALL SUPPORTS IN BAR JOIST CONSTRUCTION SHALL BE ATTACHED TO THE TOP CORD OF THE JOISTS USING SUITABLE CLAMPS APPROVED FOR THE PURPOSE.

9.7. AT BUILDING EXPANSION JOINTS AND WHERE DEFLECTION IS EXPECTED, CONDUITS SHALL BE PROVIDED WITH EXPANSION FITTINGS WITH BONDING JUMPERS.

9.8. STRUCTURAL STEEL FOR FABRICATED SUPPORTS AND RESTRAINTS: ASTM A 36/A 36M, STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.

9.9. USE OF SYNTHETIC OR PLASTIC "TIE–WRAPS", "ZIP TIES", "WIRE LIES" AND SIMILAR PRODUCTS ARE NOT PERMITTED AS A PERMANENT MEANS OF ANCHORING, SECURING, SUPPORTING OR OTHERWISE INSTALLING ANY CABLES, CONDUCTORS, CONDUITS, RACEWAYS, DEVICES, EQUIPMENT OR OTHER ELECTRICAL WORK.

9.10. CUT, FIT, AND PLACE MISCELLANEOUS METAL FABRICATIONS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION TO SUPPORT AND ANCHOR ELECTRICAL MATERIALS AND EQUIPMENT.

9.11. PLACE AND SECURE ANCHORAGE DEVICES. USE SUPPORTED EQUIPMENT MANUFACTURER'S SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.

9.11.1. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.

9.11.2. PROVIDE FEMALE EXPANSION ANCHORS, AND INSTALL STUDS AND NUTS AFTER EQUIPMENT IS POSITIONED.

9.11.3. PROVIDE BUSHINGS FOR FLOOR/WALL–MOUNTED EQUIPMENT ANCHORS TO ALLOW FOR RESILIENT MEDIA BETWEEN ANCHOR BOLTS/STUDS AND MOUNTING HOLE IN CONCRETE.

9.12. CONCRETE INSERTS: STEEL OR MALLEABLE–IRON, SLOTTED SUPPORT SYSTEM UNITS SIMILAR TO MSS TYPE 18; COMPLYING WITH MFMA–4 OR MSS SP–58.

9.13. MECHANICAL–EXPANSION ANCHORS: INSERT–WEDGE–TYPE1 ZINC–COATED STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS IN WHICH USED.

9.14. CLAMPS FOR ATTACHMENT TO STEEL STRUCTURAL ELEMENTS: MSS SP–58, TYPE SUITABLE FOR ATTACHED STRUCTURAL ELEMENT.

9.14.1. THROUGH BOLTS: STRUCTURAL TYPE, HEX HEAD, AND HIGH STRENGTH. COMPLY WITH ASTM A 325.

9.14.2. TOGGLE BOLTS: ALL–STEEL GALVANIZED SPRINGHEAD TYPE, 3116" X 4".

9.14.3. HANGER RODS: THREADED STEEL, GALVANIZED STEEL RODS; 1/2" DIA MIN.

9.14.3.1. MINIMUM HANGER ROD SIZE FOR RACEWAY: MINIMUM ROD SIZE SHALL BE 1/4 INCH IN DIAMETER.

9.14.4. CLEVIS HANGERS: GALVANIZED STEEL: WITH 1/2" DIA. HOLE FOR ROUND STEEL ROD,

9.14.5. GALVANIZED STEEL ROD REDUCING COUPLINGS, 112" X 5/8".

9.14.6. GALVANIZED STEEL CLAMPS; 112" ROD SIZE

9.14.7. GALVANIZED STEEL CLAMPS, 1–1/4" X 3/16" STOCK; 3/8" CROSS BOLT; FLANGE WIDTH 2". HEXAGON NUTS FOR 112" ROD SIZE;

9.14.8. GALVANIZED STEEL LEAD EXPANSION ANCHORS, 1/2".

9.15. COORDINATE INSTALLATION OF ROOF CURBS, EQUIPMENT SUPPORTS, AND ROOF PENETRATIONS.

9.16. STEEL SLOTTED SUPPORT SYSTEMS COMPLY WITH MFMA–4, FACTORY–FABRICATED COMPONENTS FOR FIELD ASSEMBLY.

9.16.1. CONSTRUCT WITH 9116" DIA. HOLES, NOMINAL 2" O.C. ON TOP SURFACE, WITH STANDARD FACTORY FINISH, AND WITH THE ALL NECESSARY FITTINGS WHICH MATE AND MATCH WITH UCHANNEL.

9.16.2. PROVIDE METALLIC COATINGS THAT ARE HOT–DIP GALVANIZED AFTER FABRICATION AND APPLIED ACCORDING TO MFMA–4.

9.16.3. PROVIDE CHANNEL DIMENSIONS THAT ARE SELECTED FOR APPLICABLE LOAD CRITERIA.

9.16.4. COMPLY WITH NECA 1 AND NECA 101 UNLESS REQUIREMENTS IN THIS OR OTHER SPECIFICATION SECTIONS ARE STRICTER.

9.17. FOR SUPPORTING RIGID METAL:

9.17.1. RISER CLAMPS: GALVANIZED STEEL; WITH 2 BOLTS AND NUTS, AND 4" EARS.

9.17.2. CLEVIS HANGERS: GALVANIZED STEEL WITH 1/2" DIA. HOLE FOR ROUND STEEL ROD.

9.17.3. TWO–HOLE CONDUIT STRAPS: GALVANIZED STEEL; 3/4" STRAP WIDTH; AND 2–1 /8" BETWEEN CENTER OF SCREW HOLES.

9.17.4. OFFSET CONDUIT CLAMPS: GALVANIZED STEEL.

9.18. SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY–FABRICATED ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING WEDGING PLUG OR PLUGS FOR NON–ARMORED ELECTRICAL CONDUCTORS OR CABLES IN RISER CONDUITS. PLUGS SHALL HAVE NUMBER, SIZE, AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED BODY SHALL BE MALLEABLE IRON.

9.19. MOUNTING TO WOOD:

9.19.1. FASTEN WITH LAG SCREWS OR THROUGH–BOLTS.

9.19.2. PROVIDE STANDARD GRADE, LIGHT–FRAMING–SIZE LUMBER OF ANY SPECIES. NUMBER 3 COMMON OR STANDARD GRADE BOARDS COMPLYING WITH WCLIB OR AWPA RULES, OR NUMBER 3 BOARDS COMPLYING WITH SPIB RULES.

9.19.3. LUMBER SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AWPB LP–2, AND KILN DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19 PERCENT.

9.19.4. PROVIDE MARINE GRADE PRODUCTS WHERE SUBJECT TO MOISTURE CONDITIONS.

9.19.5. PROVIDE SIMPSON STRONG TIE (OR EQUAL) EXPANSION SCREW ANCHORS.

9.19.6. CUT, FIT, AND PLACE WOOD GROUNDS, NAILERS, BLOCKING, AND ANCHORAGE ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION TO SUPPORT AND ANCHOR ELECTRICAL MATERIALS AND EQUIPMENT.

9.19.7. SELECT FASTENER SIZES THAT WILL NOT PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS.

9.19.8. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD MEMBERS. ATTACH TO SUBSTRATES AS REQUIRED TO SUPPORT APPLIED LOADS.

9.19.9. ATTACHMENTS TO WOOD STRUCTURAL MEMBERS: PROVIDE BOLTS INSTALLED THROUGH MEMBERS.

9.20. MOUNTING TO NEW CONCRETE: PROVIDE CHANNEL–TYPE CONCRETE INSERTS AND BOLT TO INSERTS, OR PROVIDE EXPANSION ANCHORS FOR APPLICATIONS WHERE INSERTS ARE NOT PRACTICAL.

9.21. MOUNTING TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS. INSTEAD OF EXPANSION ANCHORS, POWDER/GAS–ACTUATED DRIVEN THREADED STUDS PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN EXISTING STANDARD–WEIGHT CONCRETE 4 INCHES THICK OR GREATER. DO NOT USE FOR ANCHORAGE TO LIGHTWEIGHT–AGGREGATE CONCRETE OR FOR SLABS LESS THAN 4 INCHES THICK. DO NOT USE FOR WORK ANCHORED TO NEWLY INSTALLED CONCRETE. ONLY USE THIS METHOD WHERE OTHER METHODS CANNOT OR SHOULD NOT BE USED, AND ONLY AFTER RECEIVING CASE–BY–CASE PERMISSION FROM OWNER AND DESIGN PROFESSIONALS.

9.22. HOLES FOR EXPANSION ANCHORS IN CONCRETE: DRILL AT LOCATIONS AND TO DEPTHS THAT AVOID REINFORCING BARS.

9.23. MOUNTING TO MASONRY: APPROVED TOGGLE–TYPE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS.

9.24. MOUNTING TO STEEL: WELDED THREADED STUDS COMPLYING WITH AWS D11/D1 TM, WITH LOCK WASHERS AND NUTS, OR BEAM CLAMPS (MSS TYPE 19, 21 , 23, 25, OR 27) COMPLYING WITH MSS SP–69, CLAMPED TO FLANGES OF BEAMS OR ON UPPER TRUSS CHORDS OF BAR JOISTS.

9.25. MOUNTING TO LIGHT STEEL: SHEET METAL SCREWS.

9.26. ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING SURFACES: MOUNT CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES ON SLOTTED–CHANNEL RACKS ATTACHED TO SUBSTRATE.

9.27. FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES: WELDED OR BOLTED, STRUCTURAL–STEEL SHAPES, SHOP OR FIELD FABRICATED TO FIT DIMENSIONS OF SUPPORTED EQUIPMENT.

9.28. ROOF DECKS: DO NOT SUSPEND OVERHEAD HANGERS, OR SUPPORT ANY OTHER OVERHEAD ELECTRICAL WORK, FROM ROOF DECKS.

9.29. ACCESS DOORS.

9.29.1. DO NOT USE ACCESS DOORS UNLESS SPECIAL PRIOR WRITTEN PERMISSION IS GRANTED FROM THE OWNER'S REPRESENTATIVE.

9.29.2. INSTALL PULL BOXES, JUNCTION BOXES, ETC. IN AREAS WHICH ARE ACCESSIBLE AFTER COMPLETION OF CONSTRUCTION. DO NOT INSTALL PULL BOXES OR JUNCTION BOXES ABOVE GYPSUM BOARD OR SIMILAR INACCESSIBLE CEILING SYSTEMS.

9.29.3. WHERE THERE IS NO OTHER RECOURSE BUT TO PROVIDE AN ACCESS DOOR/PANEL, AND WHERE APPROVAL OF OWNER'S REPRESENTATIVE HAS BEEN OBTAINED, PROVIDE REQUIRED ACCESS DOORS/PANELS AS REQUIRED FOR A COMPLETE CODE–COMPLIANT ELECTRICAL INSTALLATION.

9.29.4. PROVIDE ACCESS DOORS IN FIRE/SMOKE RATINGS THAT MEET OR EXCEED THE SURROUNDING SURFACE THAT IS BEING PENETRATED.

10. CONDUCTORS

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E6.1
ELECTRICAL SPECIFICATION 2

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

DIVISION 26 - ELECTRICAL SPECIFICATIONS (CONTINUED)

10.1. BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THHN/THWN/THWN-2 INSULATION FOR INTERIOR USE AND EXTERIOR USE WITHIN CONDUIT. PROVIDE TYPE XHHW-2 INSULATION FOR ALL WIRING BELOW GRADE. CONDUCTORS SHALL BE SIZED AND RUN AS INDICATED.

10.2. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY.

10.3. NO WIRE SMALLER THAN NUMBER TWELVE (12) AWG SHALL BE USED UNLESS OTHERWISE INDICATED. USE OF #14 COLOR CODED WIRE WILL BE ALLOWED FOR CONTROL CIRCUITS ONLY.

10.4. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM TERMINAL BOARD TO POINT OF FINAL CONNECTION, AND NO SPLICE SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES.

10.5. KEEP CONDUCTOR SPLICES TO MINIMUM.

10.6. PULL CONDUCTORS SIMULTANEOUSLY WHERE MORE THAN ONE IS BEING INSTALLED IN SAME RACEWAY. USE UL LISTED PULLING COMPOUND OR LUBRICANT.

10.7. WHERE NECESSARY INCREASE WIRE SIZES TO OFFSET VOLTAGE DROP AS/IF REQUIRED.

10.8. ALL CONDUCTORS SHALL BE RATED FOR 75 DEG. C. MINIMUM. PROVIDE WITH FULL PARITY SIZED GREEN INSULATED EQUIPMENT GROUND CONDUCTOR. PROVIDE COMPATIBLE STEEL FITTINGS WITH INTEGRAL RED PLASTIC INSULATED THROAT BUSHINGS. CABLES SHALL BE 90 DEG. C. RATED WITH ALL COMPONENTS AND FITTINGS LISTED FOR GROUNDING AND COMPLIANT WITH THE FOLLOWING: UL STD.4 AND UL STD. 83;ANSI E119 AND E814; NFPA 70.

10.9. INSULATION VALUE OF JOINTS SHALL BE 100%, IN EXCESS OF WIRE. PROVIDE ADEQUATE LENGTH OF CONDUCTORS WITHIN ELECTRICAL ENCLOSURES AND TRAIN THE CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS.

10.10. BUNDLE MULTIPLE CONDUCTORS, WITH CONDUCTORS NO LARGER THAN 10 AWG CABLED IN INDIVIDUAL CIRCUITS.

10.11. DO NOT USE ARMORED AC, BX, NM, OR ANY MANUFACTURED CABLE ASSEMBLY, UNLESS NOTED OTHERWISE.

10.12. ALL WIRING SHALL BE IN CONDUIT, UNLESS NOTED OTHERWISE.

10.13. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS FOR VOLTAGES WHEN PRESENT:

10.13.1. 208Y/120V SYSTEMS:
PHASE A – BLACK
PHASE B – RED
PHASE C – BLUE
NEUTRAL – WHITE
GROUND – GREEN

10.14. AWG #10 AND SMALLER SHALL BE SOLID. AWG #8 AND LARGER SHALL BE STRANDED.

10.15. MAINTAIN A UNIFORM ELEVATION FOR ALL CABLE RUNS WHEREVER POSSIBLE. ALL CABLES SHALL BE SUPPORTED/ANCHORED AT MAXIMUM 4 FOOT INTERVALS AND WITHIN 12" OF BOX OR OUTLET AND SHALL NOT SAG.

10.16. INSTALL CABLES IN A MANNER THAT PREVENTS OVERHEATING.

10.17. CABLES SHALL BE FASTENED DIRECTLY TO THE STRUCTURE USING FACTORY CLAMPS/CLIPS SPECIFICALLY DESIGNED FOR THE RESPECTIVE CABLE.

10.18. WIRE CONNECTIONS

10.18.1. FOR EACH ELECTRICAL CONNECTION INDICATED, PROVIDE COMPLETE ASSEMBLY OF MATERIALS, INCLUDING BUT NOT LIMITED TO, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE-NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES AND TERMINATIONS OF TYPES INDICATED.

10.18.2. ALL FEEDER AND SUB-FEEDER WIRING CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS BY SQUARE D OR ACCEPTABLE EQUIVALENT.

10.18.3. ALL BRANCH WIRING CONNECTIONS SHALL BE 3M SCOTCH LOCK CONNECTORS OR ACCEPTABLE EQUIVALENT.

10.18.4. WHERE CABLE CONNECTIONS REQUIRE INSULATION, SCOTCH #33, ELECTRICAL TAPE SHALL BE USED FOR WRAPPING.

10.18.5. THE CONDUCTORS TERMINATING AT EACH WIRED OUTLET SHALL BE LEFT NO LESS THAN 8" LONG AT THE IR OUTLET FITTINGS TO FACILITATE INSTALLMENT OF DEVICES OR LUMINAIRES.

10.18.6. MAKE TERMINATIONS SO THERE IS NO BARE CONDUCTOR AT THE TERMINAL.

10.19. GROUND AND BONDING CONDUCTORS FOR ELECTRICAL SYSTEMS

10.19.1. ALL METALLIC CONDUIT. SURFACE RACEWAYS, WIREWAYS, SUPPORTS, CABINET AND EQUIPMENT SHALL BE GROUNDED.

10.19.2. PROVIDE GROUNDING ELECTRODE CONDUCTORS FOR SERVICE ENTRANCES AND DERIVED SYSTEMS.

10.19.3. PROVIDE ALL FEEDERS AND BRANCH CIRCUITS WITH INSULATED (GREEN COVERING) EQUIPMENT GROUNDING.

10.19.4. DO NOT SHARE NEUTRALS WHEN AMONGST MULTIPLE BRANCH CIRCUITS OR WITH MULTI-WIRE BRANCH CIRCUITS.

10.19.5. UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS, PROVIDE GROUNDED ("NEUTRAL") CONDUCTORS THAT ARE AT LEAST COMPARABLY-SIZED WITH CORRESPONDING PHASE CONDUCTORS FOR ALL APPLICATIONS.

10.20. NORMAL SYSTEM POWER FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAYS FROM EMERGENCY SYSTEM POWER. ALL WIRING FOR DIFFERENT POWER VOLTAGES SHALL BE INSTALLED IN RACEWAY SYSTEMS SEPARATE FROM EACH OTHER. ALL WIRING FOR THE VARIOUS ELECTRICAL SYSTEMS SHALL BE INSTALLED IN RACEWAY SYSTEMS SEPARATE FROM EACH OTHER.

11. BOXES AND FITTINGS

11.1. EXTENT OF ELECTRICAL BOX AND ASSOCIATED FITTING WORK IS GENERALLY INDICATED BY DRAWINGS AND SCHEDULES.

11.2. PROVIDE BOXES AND FITTINGS FOR ALL WORK.

11.3. GANG TYPE OUTLET BOXES SHALL NOT BE USED.

11.4. THE OUTLET BOX LOCATIONS INDICATED ON DRAWINGS SHALL BE CONSIDERED APPROXIMATE, AND THEREFORE, IT SHALL BE INCUMBENT UPON CONTRACTOR TO STUDY THE GENERAL CONSTRUCTION WITH RELATION TO SPACES AND EQUIPMENT SURROUNDING EACH OUTLET.

11.5. ALL OUTLET, SWITCH, AND JUNCTION BOXES SHALL BE MADE OF CODE COMPLIANT #12 GAUGE STEEL COMPLETE WITH RINGS AND REMOVABLE FRONT FASTENED SCREW COVER PLATES WITH COUNTER SINK HEAD SCREWS.

11.6. OUTLET BOXES

11.6.1. WHERE CONDUIT IS CONCEALED, BOXES SHALL NOT BE LESS THAN 4" SQUARE X 1-1/2" DEEP.

11.6.2. CEILING: 4" SQUARE, 2-1/8" DEEP FOR EXPOSED OR FURRED WORK, 3" DEEP FOR BOXES POURED IN CONCRETE.

11.6.2.1. PROVIDE CONCRETE POUR BOXES OF THE TYPE SPECIALLY DESIGNED FOR THE APPLICATION.

11.6.2.2. PROVIDE PLASTER RINGS OR EXTENSION RINGS WHERE REQUIRED.

11.6.2.3. PROVIDE DEEPER BOXES WHERE REQUIRED.

11.6.3. WALL: 4" SQUARE, 2-1/8" DEEP BOXES.

11.6.3.2. PROVIDE EXTENSION RINGS OR COVERS OF SUFFICIENT DEPTH TO BRING COVERS FLUSH WITH THE FINISHED SURFACE.

11.6.3.3. MASONRY: FOR FLUSH MOUNTED BOXES IN EXPOSED MASONRY OR TILE.

11.6.3.4. PROVIDE COVERS WITH SQUARE CORNERS ON THE RAISED PORTION AND WITH SUFFICIENT DEPTH TO TRIM OUT FLUSH WITH FINISHED SURFACE.

11.6.4. OUTLET BOXES SHALL BE 4" OCTAGONAL FOR LIGHTING FIXTURES WITH APPROVED PLASTER RINGS AND PLATES.

11.7. EXPOSED AND WET OR DAMP AREA AT EQUIPMENT, SUCH AS EXTERIOR, ROOFS OR KITCHENS WHEN PRESENT, PROVIDE FS OR FD BOXES WITH SUITABLE WEATHERPROOF COVERS.

11.8. PROVIDE COVERS OF "IN USE" TYPE COVERS WHERE CORDS/PLUGS ARE INSTALLED AND MUST REMAIN AS "IN USE".

11.9. PULL AND JUNCTION BOXES

11.9.2. PROVIDE BOXES WHERE REQUIRED TO FACILITATE THE PULLING OF WIRES OR CABLES.

11.9.3. BOXES SHALL BE IN ACCORDANCE WITH ARTICLE 370 OF N.E.C.

11.10. ACCESSORIES

11.10.1. PROVIDE CORROSION-RESISTANT KNOCKOUT CLOSURES, CONDUIT LOCKNUTS AND MALLEABLE IRON CONDUIT BUSHINGS, OFFSET CONNECTORS, OF TYPES AND SIZES, TO SUIT RESPECTIVE INSTALLATION REQUIREMENTS AND APPLICATIONS.

11.12. INSTALLATION OF BOXES AND FITTINGS

11.12.1. POSITION RECESSED OUTLET BOXES ACCURATELY TO ALLOW FOR SURFACE FINISH THICKNESS.

11.12.2. FASTEN ELECTRICAL BOXES FIRMLY AND RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY.

11.12.3. ALL BOXES SHALL BE EQUIPPED WITH PROPER COVERS TO BE FLUSH WITH FINISHED WALL SURFACE.

11.12.4. WHERE OUTLET BOXES OCCUR IN BLOCK, CINDER, CONCRETE BLOCK, FACING TILE, OR OTHER MATERIAL WHERE SUCH MATERIALS FORM THE FINISHED WALL SURFACE; THE OPENING FOR THE BOX SHALL BE CUT NEATLY AND OF THE SIZE THAT THE COVER PLATE WILL COVER ALL PARTS OF THE OPENING.

11.12.5. FOR SPECIAL APPLICATION, JUNCTION BOXES SHALL BE NOTED, DETAILED AND/OR SIZED ON THE DRAWINGS OR IN THE FIELD AS REQUIRED.

11.13. LOCATIONS OF OUTLETS

11.13.1. CONTRACTOR SHALL STUDY THE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS COORDINATED WITH DOOR SWINGS, GLASS PARTITIONS, ETC. VERIFY ALL BOX/DEVICE MOUNTING HEIGHTS AND LOCATIONS IN FIELD WITH OWNERS REPRESENTATIVE. THE VARIOUS OUTLETS ARE TO BE LOCATED AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTER LINE OF BOX, UNLESS NOTED OTHERWISE AT AN INDIVIDUAL OUTLET ON THE DRAWINGS, WHEN SCHEDULED, OR IN CASES WHERE USING CENTER OF BOX FOR MEASUREMENT WOULD RESULT IN A DEVICE HAVING AN OPERABLE COMPONENT HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR, INSTALL BOXES LOWER AS NEEDED SO THAT UPPERMOST PART OF OPERABLE COMPONENT IS NO HIGHER THAN 48 INCHES. VERIFY ALL EQUIPMENT REQUIREMENTS BEFORE ROUGH-IN:

11.13.1.2. WALL SWITCHES & PULL STATIONS (VERT. MTD.) 48"

11.13.1.3. RECEPTACLES (VERT. MTD.) 18"

11.13.1.4. TELEPHONE OUTLETS (DESK PHONE) 18"

11.13.1.5. TELEPHONE OUTLETS (WALL PHONE) 46"

11.13.1.6. DATA CABLE OUTLETS 18"

11.13.1.7. OUTLETS ABOVE COUNTERS (HORZ. MTD.) 6" ABOVE BACKSPLASH

11.13.1.8. FIRE ALARM HORNS/STROBES 80" MIN TO 84" MAX TO TOP OF DEVICE.

11.13.2. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS AT OUTLETS TAKE PRECEDENCE. REFER TO DRAWINGS FOR DETAILS OF OTHER EQUIPMENT MOUNTING HEIGHTS. MOUNTING HEIGHTS FOR FLUSH OUTLETS IN BLOCK WALLS MAY BE CHANGED FOR INSTALLATION. CONSULT OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ANY SUCH INSTALLATION.

12. ELECTRICAL SYSTEM GROUNDING

12.1. MAIN SERVICE GROUNDING SYSTEM SHALL CONSIST OF THREE BRANCHES.

12.1.1. GROUNDING CONDUCTOR TO THE WATER PIPING SYSTEM WHICH SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

12.1.2. GROUNDING CONDUCTOR TO THE CONCRETE FOOTING REINFORCING/BUILDING REINFORCING STEEL.

12.1.3. GROUNDING CONDUCTOR TO THE ELECTRODE GROUNDING SYSTEM (DRIVEN GROUND RODS) WHICH SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

12.2. GROUNDING CONDUCTOR SHALL BE BONDED AT BOTH ENDS TO THE CONDUIT IN WHICH IT IS INSTALLED.

12.3. MAIN SERVICE GROUND TO THE WATER PIPING SYSTEM SHALL BE CONNECTED ON THE STREET SIDE OF THE WATER METER, OR ON A COLD WATER PIPE AS NEAR AS PRACTICABLE TO THE WATER SERVICE ENTRANCE TO THE BUILDING.

12.4. BONDING JUMPERS SHALL BE PROVIDED WHERE REQUIRED BY THE NATIONAL ELECTRICAL CODE.

12.4.1. BOND ALL STRUCTURAL STEEL OF THE BUILDING TO THE MAIN SERVICE GROUND BUS.

12.4.2. BOND THE NATURAL GAS SERVICE TO THE GROUND ELECTRODE SYSTEM.

12.5. CONTRACTOR SHALL PROVIDE A GROUNDING SYSTEM CONSISTING OF DRIVEN GROUND RODS WITH INTERCONNECTING CABLES.

12.5.1. GROUND RODS SHALL BE INSTALLED WITH TWO FEET OF COVER AND CABLES EXOTHERMICALLY WELDED.

12.5.2. GROUND RODS SHALL BE 3/4" DIAMETER BY 10 FEET LONG COPPER CLAD STEEL, ONE PIECE, COPPERWELD #9450, OR APPROVED EQUAL.

12.5.3. GROUND GRID CONDUCTORS SHALL BE #1/0 BARE DIRECT BURIED.

12.5.4. GROUND SYSTEM SHALL BE SO CONSTRUCTED THAT THE RESISTANCE BETWEEN THE EQUIPMENT AND THE GROUND SHALL NOT EXCEED 25 OHMS.

12.6. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL RACEWAYS AND CABLES SIZED IN ACCORDANCE WITH THE NEC.

13. WIRING DEVICES

13.1. THE EXTENT OF WIRING DEVICE WORK IS INDICATED BY THE DRAWINGS AND SCHEDULES. COORDINATE PLATE COLORS WITH ARCHITECTURAL REQUIREMENTS.

13.2. PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED.

13.3. ACCEPTABLE MANUFACTURERS

13.3.1. HARVEY HUBBELL CO.

13.3.2. LEGRAND-PASS AND SEYMOUR.

13.3.3. LEVITON MFG. CO.

13.4. FABRICATED WIRING DEVICES

13.4.1. SWITCHES SHALL BE SPECIFICATION GRADE, BACK & SIDE WIRED, RATED 20 AMP. 120/277 VOLT, 1 HP @ 120V, A.G. QUIET TYPE, HUBBELL #1221 – IVORY OR BROWN, COLOR AS DESCRIBED AND/OR SELECTED BY ARCHITECT TO MATCH FINISHES.

13.4.1.1. SNAP SWITCHES

13.4.1.1.1. COMPLY WITH NEMA WD 1 AND UL 20. SILENT MECHANICAL TYPE.

13.4.1.1.2. THREE AND FOUR-WAY SWITCHES SHALL BE OF THE SAME MANUFACTURER AND GRADE.

13.4.1.2. PILOT LIGHT SWITCHES, 20 A:

13.4.1.2.1. SINGLE POLE, WITH NEON-LIGHTED HANDLE, ILLUMINATED WHEN SWITCH IS "ON."

13.4.1.3. SINGLE-POLE, DOUBLE-THROW, MOMENTARY CONTACT, CENTER-OFF SWITCHES, 120/277 V, 20 A; FOR USE WITH MECHANICALLY HELD LIGHTING CONTACTORS.

13.4.1.4. KEY-OPERATED, SINGLE-POLE, DOUBLE-THROW, MOMENTARY CONTACT, CENTER-OFF SWITCHES, 120/277 V, 20 A; FOR USE WITH MECHANICALLY HELD LIGHTING CONTACTORS, WITH FACTORY-SUPPLIED KEY IN LIEU OF SWITCH HANDLE.

13.4.1.5. WALL-BOX DIMMERS

13.4.1.5.1. DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS.

13.4.1.5.2. CONTROL: CONTINUOUSLY ADJUSTABLE SLIDER, TOGGLE SWITCH, OR ROTARY KNOB; WITH SINGLE-POLE OR THREE-WAY SWITCHING. COMPLY WITH UL 1472.

13.4.1.5.3. INCANDESCENT LAMP DIMMERS: 120 V; CONTROL SHALL FOLLOW SQUARE-LAW DIMMING CURVE. ON-OFF SWITCH POSITIONS SHALL BYPASS DIMMER MODULE.

13.4.1.5.4. 600 W; DIMMERS SHALL REQUIRE NO DERATING WHEN GANGED WITH OTHER DEVICES. ILLUMINATED WHEN "OFF."

13.4.2. FAN SPEED CONTROLS

13.4.2.1. MODULAR, 120-V, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES AND AUDIBLE FREQUENCY AND EMI/RFI FILTERS.

13.4.2.1.1. COMPLY WITH UL 1917

13.4.2.1.2. CONTINUOUSLY ADJUSTABLE SLIDER, TOGGLE SWITCH, OR ROTARY KNOB, 5 A OR 1.5 A.

13.4.2.1.3. THREE-SPEED ADJUSTABLE SLIDER OR ROTARY KNOB, 1.5 A.

13.4.3. OCCUPANCY SENSORS

13.4.3.1. WALL-SWITCH SENSORS:

13.4.3.1.1. PASSIVE-INFRARED TYPE, 120/277 V, ADJUSTABLE TIME DELAY UP TO 30 MINUTES, 180-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 900 SQ. FT.

13.4.3.1.2. ADAPTIVE-TECHNOLOGY TYPE, 120/277 V, ADJUSTABLE TIME DELAY UP TO 20 MINUTES, 180-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 900 SQ. FT.

13.4.4. RECEPTACLES SHALL BE HEAVY DUTY GROUNDING TYPE, 20 AMP 125 VOLT RATED, HUBBELL #5362 – IVORY OR BROWN, AND/OR SELECTED BY ARCHITECT TO MATCH FINISHES. FOR OTHER TYPES/STYLES ETC, AND APPLICATIONS SEE DRAWINGS.

13.4.4.1. GFCI RECEPTACLES – STRAIGHT BLADE, FEED OR NON-FEED THROUGH TYPE. COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, AND UL 943, CLASS A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED.

13.4.5. COMMUNICATIONS OUTLETS

13.4.5.1. TELEPHONE OUTLET – SINGLE RJ-45 JACK FOR TERMINATING 100-OHM, BALANCED, FOUR-PAIR UTP; TIA/EIA-568-B.1 COMPLYING WITH CATEGORY 5E. COMPLY WITH UL 1863.

13.4.5.2. COMBINATION TV AND TELEPHONE OUTLET – SINGLE RJ-45 JACK FOR 100-OHM, BALANCED, FOUR-PAIR UTP; TIA/EIA-568-B.1; COMPLYING WITH CATEGORY 5E; AND ONE TYPE F COAXIAL CABLE CONNECTOR.

13.4.6. UNLESS SPECIFICALLY INDICATED OTHERWISE, OR DIRECTED OTHERWISE IN FIELD, PROVIDE WHITE COLOR FOR NORMAL UTILITY WIRING DEVICES.

13.5. PROVIDE SMOOTH FINISH PLATES FOR ALL DEVICES WITH APPROPRIATE MOUNTING ARRANGEMENTS FOR GAUGED DEVICES.

13.5.1. FOR TELEPHONE, COMPUTER, AND MICROPHONE OUTLETS PROVIDE BUSHED HOLE COVER PLATES.

13.5.2. PLATES SHALL BE IVORY, BROWN, OR GRAY STAINLESS STEEL.

13.5.2.1. WALL PLATES IN FINISHED AREAS SHALL BE COMMERCIAL SPECIFICATION GRADE, SATIN FINISH STAINLESS STEEL, WITH BEVELED EDGES, EQUAL TO LEVITON TYPE 430 SERIES.

13.5.3. GRAY STAINLESS STEEL PLATES FOR SERVICE AREAS, KITCHEN STORAGE, AND RESTROOMS.

13.5.4. IVORY DEVICES WHERE 302 STAINLESS STEEL OR IVORY PLATES ARE USED.

13.5.5. IVORY PLATES FOR ALL OTHER AREAS EXCEPT BROWN PLATES ON WOOD OR DARK SURFACES.

13.5.5.1. BROWN DEVICES WHERE BROWN PLATES ARE USED.

13.5.6. PROVIDE WALL PLATES WITH ENGRAVED LEGENDS WHERE INDICATED ON DRAWINGS AND/OR WHERE REQUIRED.

13.5.7. MATERIAL FOR DAMP LOCATIONS – THERMOPLASTIC OR CAST ALUMINUM WITH SPRING-LOADED LIFT COVER, AND LISTED AND LABELED FOR USE IN "WET LOCATIONS."

13.5.8. WET-LOCATION, WEATHERPROOF COVER PLATES – NEMA 250, COMPLYING WITH TYPE 3R WEATHER-RESISTANT, DIE-CAST ALUMINUM OR THERMOPLASTIC WITH HINGED LOCKABLE COVER.

13.5.9. REFER TO ARCHITECTURAL FINISH SCHEDULES AND OWNER REPRESENTATIVE FOR ADDITIONAL INFORMATION.

13.6. FLOOR SERVICE FITTINGS

13.6.1. TYPE – MODULAR, FLUSH-TYPE, FLAP-TYPE, OR ABOVE-FLOOR, DUAL-SERVICE UNITS SUITABLE FOR WIRING METHOD USED.

13.6.2. COMPARTMENTS – BARRIER SEPARATES POWER FROM VOICE AND DATA COMMUNICATION CABLING.

13.6.3. SERVICE PLATE – RECTANGULAR OR ROUND, DIE-CAST ALUMINUM OR SOLID BRASS WITH SATIN FINISH.

13.6.4. POWER RECEPTACLE – NEMA WD 6 CONFIGURATION 5-20R, GRAY FINISH, UNLESS OTHERWISE INDICATED.

13.6.5. VOICE AND DATA COMMUNICATION OUTLET – BLANK COVER WITH BUSHED CABLE OPENING OR TWO MODULAR, KEYED, COLOR-CODED, RJ-45 CATEGORY 5E JACKS FOR UTP CABLE.

13.7. PROVIDE GROUNDED ("NEUTRAL") CONDUCTORS IN ALL WALL SWITCH, DIMMER, AND OTHER LIGHTING CONTROL OUTLET BOXES, EVEN IF NOT IMMEDIATELY UTILIZED.

13.8. ALL DEVICE WALL PLATES SHALL BE STANDARD SIZE: "MIDWAY", "OVERSIZED" ("JUMBO") OR "EXTRA DEEP" WALL PLATES SHALL NOT BE ACCEPTABLE.

13.9. SCREW HEADS COLORED TO MATCH FINISH OF PLATES.

13.10. GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES, OR MULTI-OUTLET ASSEMBLY FOR RECEPTACLES, SO THAT GROUND AND ELECTRICAL SERVICE WILL NOT BE DISTURBED DUE TO OTHER RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT IF RECEPTACLE IS REMOVED.

14. PANEL BOARDS

14.1. PROVIDE PANELS MATCHING VOLTAGES, PHASE AND WIRES AS NOTED ON THE PANEL SCHEDULES.

14.2. AS A BASIS OF DESIGN, USE SQUARE-D TYPE "NQ", "NF" UNLESS OTHERWISE NOTED ON THE PANEL SCHEDULE OR AS A NOTE ASSOCIATED WITH THE PANEL.

14.3. ACCEPTABLE MANUFACTURERS

14.3.1. SQUARE D CO. (BOLT ON BREAKERS)

14.3.2. SIEMENS (BOLT ON BREAKERS)

14.3.3. EATON/CUTLER HAMMER (BOLT ON BREAKERS)

14.4. PROVIDE DEAD-FRONT, SAFETY CONSTRUCTED, FACTORY-ASSEMBLED CIRCUIT BREAKER TYPE PANEL BOARDS IN SIZES AND RATINGS AS INDICATED.

14.4.1. ALL PANEL BOARDS INTERIORS SHALL BE FACTORY ASSEMBLED COMPLETE WITH CIRCUIT BREAKERS AS SCHEDULED ON THE DRAWINGS. ALL CIRCUIT BREAKERS SHALL BE QUICK-MAKE AND SHALL BE TRIP INDICATING.

14.4.2. EACH BOLT-ON PANEL BOARD SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS BONDED TO THE PANEL BACK BOX. IN ADDITION, PROVIDE 200% NEUTRAL BUS AND ISOLATED GROUND BUS WHERE INDICATED.

14.4.3. EQUIP PANEL BOARD UNIT DEVICES WITH TYPES, RATINGS, AND CHARACTERISTICS INDICATED.

14.4.4. BUS STRUCTURE AND MAIN LUGS OR MAIN BREAKER SHALL HAVE CURRENT RATINGS AS SHOWN ON THE PANEL BOARD SCHEDULE.

14.4.4.1. SUCH RATINGS SHALL BE ESTABLISHED BY TEST CONDUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL 67. THE USE OF CONDUCTOR DIMENSIONS WILL NOT BE ACCEPTED IN LIEU OF ACTUAL HEAT TEST.

14.4.5. BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE "PHASE-SEQUENCE" TYPE.

14.4.6. THREE-PHASE, FOUR WIRE BUSSING SHALL BE SUCH THAT ANY THREE ADJACENT SINGLE-POLE BREAKERS ARE INDIVIDUALLY CONNECTED TO EACH OF THE THREE DIFFERENT PHASES IN SUCH A MANNER THAT TWO OR THREE-POLE BREAKERS CAN BE INSTALLED AT ANY LOCATION.

14.4.7. ALL CURRENT CARRYING PARTS OF THE BUSS ASSEMBLY SHALL BE PLATED COPPER WITH CONDUCTIVITY OF NOT LESS THAN 98%.

14.5. PANEL BOARD ENCLOSURE

14.5.1. PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES, IN SIZES AND NEMA TYPES AS INDICATED, CODE GAUGE MINIMUM 16-GAUGE THICKNESS.

14.5.2. ENCLOSURES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE INDICATED.

14.5.3. PANEL BOARDS AND ENCLOSING CABINETS SHALL CONFORM TO STANDARDS ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC., AND REQUIREMENTS OF THE NEC.

14.5.4. CONSTRUCT WITH MULTIPLE KNOCKOUTS AND WIRING GUTTERS.

14.5.5. PROVIDE FRONTS WITH ADJUSTABLE TRIM CLAMPS, AND DOORS WITH FLUSH LOCKS AND KEYS, ALL PANEL BOARD ENCLOSURES KEYED ALIKE WITH CONCEALED PIANO DOOR HINGES.

14.5.6. EQUIP WITH INTERIOR CIRCUIT DIRECTORY FRAME, AND CARD WITH CLEAR PLASTIC COVERING.

14.5.7. PROVIDE BAKED GRAY ENAMEL FINISH OVER A RUST INHIBITOR COATING.

14.5.8. PROVIDE ENCLOSURES FABRICATED BY SAME MANUFACTURER AS PANELBOARDS.

14.5.9. MINIMUM DEPTH OF 5-3/4" & MINIMUM WIDTH OF 20" FOR PANELS.

14.5.10. SEE PANEL SCHEDULE NOTES FOR SPECIFIED ALTERNATE SPECIAL CONDITIONS.

14.6. BALANCE AMPERES OF CIRCUITS AFTER ACTIVE LOADS ARE ENERGIZED TO WITHIN 10% MAXIMUM AND PROVIDE TYPEWRITTEN PANEL BOARD SCHEDULE WITH CORRECTED LOADS.

14.7. PROVIDE PANEL BOARD WITH CIRCUIT BREAKERS HAVING THE SHORT CIRCUIT RATING (SCCR) INDICATED.

14.7.1. PROVIDE CIRCUIT BREAKERS HAVING THE AIC RATING INDICATED AND IF THE PANEL BOARD IS "SERIES RATED", MANUFACTURER SHALL PROVIDE LABELING REQUIRED BY N.E.C. RELATIVE TO THIS RATING.AND SHALL SUBMIT DATA WITH THE PANEL BOARD AND CIRCUIT BREAKER SUBMITTAL.

15. MOTOR LOAD CONNECTIONS

15.1. PROVIDE ALL POWER WIRING AND CONNECTIONS FROM SOURCE TO STARTER, STARTER TO DISCONNECT, AND DISCONNECT TO MOTOR OR DEVICE, EXCEPT WHERE SUCH WIRING IS PROVIDED BY EQUIPMENT MANUFACTURER.

15.2. ALL AUTOMATIC TEMPERATURE CONTROL WIRING SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23 – MECHANICAL, UNLESS INDICATED OR SPECIFIED OTHERWISE. HOWEVER, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL STARTERS AND MAKE ALL POWER CONNECTIONS.

15.3. MANUAL CONTROL SWITCHES SHALL BE FURNISHED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED.

15.4. VARIABLE FREQUENCY DRIVES (VFD) SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.

15.5. FURNISH AND INSTALL A DISCONNECT FOR EACH MOTOR (UNLESS PROVIDED INTEGRAL BY MANUFACTURER).

15.6. DISCONNECTS SHALL BE FUSED OR NON-FUSED SAFETY SWITCHES AS REQUIRED.

15.7. UPON COMPLETION OF MOTOR INSTALLATION WORK, CONTRACTOR SHALL ENSURE PHASES ARE CORRECTLY CONNECTED BY CHECKING ROTATION OF MOTOR.

15.8. DRAWINGS INDICATE MINIMUM MOTOR HORSEPOWER RATINGS.

15.8.1. BRAKE HORSEPOWER SHALL NOT EXCEED MOTOR HORSEPOWER, I.E. MOTORS SHALL NOT OPERATE IN THEIR SERVICE FACTORS.

15.8.2. MINIMUM MOTOR EFFICIENCIES SHALL NOT BE LESS THAN THAT SET FORTH IN THE LOCAL ENERGY CODE.

15.9. MOTOR CHARACTERISTICS, SUCH AS INSULATION CLASS, SPEED/TORQUE CURVE, BEARING DESIGN LIFE, SHAFT MATERIAL, BODY MATERIAL, ETC. SHALL BE SELECTED BY THE EQUIPMENT MANUFACTURER BASED UPON THE INTENDED SERVICE OF THE EQUIPMENT.

15.9.1. MOTORS SHALL BE SELECTED BY THE EQUIPMENT MANUFACTURER SUCH THAT THE MOTOR SURFACE TEMPERATURE IS NOT EXCESSIVE.

15.9.1.1. SURFACE TEMPERATURES OVER 150 DEG F, WITH SURROUNDING AIR OF 100 DEG F SHALL BE CONSIDERED EXCESSIVE AND UNACCEPTABLE.

15.9.1.2. MOTORS FOUND TO OPERATE AT EXCESSIVE TEMPERATURES SHALL BE REPLACED WITH COOLER-RUNNING MOTORS, AT NO ADDITIONAL COST TO THE OWNER.

15.10. PROVIDE INHERENT THERMAL PROTECTION FOR ALL FRACTIONAL HORSEPOWER MOTORS.

15.11. DISCONNECT SWITCHES AND SAFETY SWITCHES

15.11.1. ACCEPTABLE MANUFACTURERS

15.11.1.1. SQUARE D COMPANY

15.11.1.2. EATON-CUTLER HAMMER

15.11.1.3. SIEMENS

15.11.2. FURNISH AND INSTALL SAFETY SWITCHES WHERE INDICATED AND AS REQUIRED FOR MOTOR OUTLETS OR OTHER EQUIPMENT. SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NON-FUSED, AS REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE.

15.11.3. PROVIDE SWITCHES WITH ELECTRICAL CHARACTERISTICS INDICATED:

15.11.3.1. SWITCHES SHALL BE EQUIPPED WITH FUSE CONTACTS AND JAWS WHICH INSURE POSITIVE FUSE AND JAW CONTACT BY MEANS OF REINFORCING SPRING CLIPS OR OTHER APPROVED MEANS.

15.11.3.2. HINGES SHALL BE NON-CURRENT CARRYING.

15.11.3.3. SWITCHES SHALL BE SO DESIGNED THAT THEY CAN BE LOCKED IN EITHER OPEN OR CLOSED POSITION.

15.11.3.4. SWITCHES SHALL HAVE REJECTION CLIP PROVISIONS SO THAT ONLY CLASS RK-1 CURRENT LIMITING FUSES CAN BE INSTALLED.

15.11.3.5. ALL SAFETY SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK, AND HAVE INTERLOCKING COVER WITH HANDLE THAT MAY EITHER BE FRONT OR SIDE OPERATING.

15.11.3.6. SWITCH BLADE SHALL BE VISIBLE IN OFF POSITION WITH THE DOOR OPEN.

15.11.3.7. EQUIP WITH OPERATING HANDLE THAT IS AN INTEGRAL PART OF ENCLOSURE BASE AND WHOSE OPERATING POSITION IS CLEARLY INDICATED AND IS PADLOCKABLE IN THE OFF POSITION.

15.11.3.8. CONSTRUCT CURRENT CARRYING PARTS OF HIGH-CONDUCTIVITY COPPER AND SILVER-TUNGSTEN TYPE SWITCH CONTACTS.

15.11.3.9. PROVIDE NEMA TYPE 1 FOR INTERIOR AND NEMA TYPE 3R FOR EXTERIOR AND PROVIDE TYPE INDICATED FOR SPECIAL CASES.

15.11.3.10. PROVIDE FUSIBLE SWITCHES WITH FUSES REQUIRED.

15.11.3.10.1. FUSES SHALL BE U.L. LISTED CLASS RK-1 CURRENT LIMITING TYPE. PROVIDE BUSSMAN "LOW PEAK" OR APPROVED EQUAL.

15.11.3.11. PROVIDE CONTROL INTERLOCKS WHEN INDICATED.

15.11.4. HEAVY-DUTY SAFETY SWITCHES – PROVIDE SURFACE MOUNTED, HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SWITCHES THAT ARE PAINTED WITH PRIME COATS AND FINAL ENAMEL COATS THAT IS SUITABLE FOR EXPOSURE TO EXTERIOR ELEMENTS WITHOUT CORROSION.

15.12. MOTOR STARTERS

15.12.1. STARTERS AND CONTROL DEVICES FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED UNDER DIVISION 26 – ELECTRICAL WHERE SHOWN ON THE DRAWINGS.

15.12.2. UNLESS SPECIFIED OTHERWISE UNDER OTHER DIVISION 23 SPECIFICATIONS, MECHANICAL DRAWINGS, OR INDIVIDUAL EQUIPMENT SECTIONS, MOTOR STARTERS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

15.12.2.1. STARTERS FOR MOTORS 1/3 HORSEPOWER OR SMALLER SHALL BE MANUAL UNLESS REMOTE OR AUTOMATIC STARTING IS REQUIRED, IN WHICH CASE THE STARTERS SHALL BE MAGNETIC, FULL VOLTAGE, NON-REVERSING, SINGLE-SPEED, UNLESS OTHERWISE INDICATED. ALL OTHER STARTERS SHALL BE MAGNETIC.

15.12.2.2. EACH STARTER FOR A THREE-PHASE MOTOR SHALL BE FURNISHED WITH THREE (3) OVERLOAD RELAYS SIZED FOR THE FULL LOAD RUNNING CURRENT OF THE MOTOR ACTUALLY PROVIDED.

15.12.2.2.1. PROVIDE AN EXTERNAL "HAND-OFF-AUTO SELECTOR SWITCH WITH RED "RUNNING" LIGHT.

15.12.2.2.2. PROVIDE A GREEN LIGHT TO INDICATE MOTOR "STOPPED".

15.12.2.2.3. EACH PILOT LIGHT SHALL HAVE A LEGEND PLATE INDICATING REASON FOR SIGNAL.

15.12.2.3. EACH OVERLOAD RELAY SHALL HAVE A NORMAL OPEN ALARM CONTACT WHICH WILL CLOSE ONLY WHEN ACTUATED BY AN OVERLOAD (NOT TO BE CONFUSED WITH N.O. OR N.C. AUXILIARY CONTACTS). THESE CONTACTS SHALL BE PROPERLY WIRED TO THEIR RESPECTIVE BLUE PILOT LIGHT PROVIDED ON THE STARTER FRONT COVER AND HAVING A "TRIPPED" LEGEND PLATE.

15.12.2.4. INDIVIDUAL MOUNTED MOTOR STARTERS SHALL BE IN A NEMA TYPE 1 GENERAL PURPOSE ENCLOSED IN UNFINISHED AREAS AND SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. ALL STARTERS MOUNTED IN EXTERIOR AREAS SHALL HAVE A NEMA 3R ENCLOSURE. EACH STARTER SHALL HAVE A LAMINATED NAMEPLATE TO INDICATE EQUIPMENT UNIT NUMBER, FUNCTION AND CIRCUIT NUMBER.

15.12.2.5. ALL MOTORS STARTERS, PUSH BUTTONS AND PILOT LIGHTS SHALL BE OF THE SAME MANUFACTURER AS THE SWITCHBOARD.

15.12.3. MOTOR STARTERS FOR THE FOLLOWING EQUIPMENT SHALL BE PROVIDED UNDER DIVISION 23 BY THE MANUFACTURER OF THE EQUIPMENT:

15.12.3.1. PACKAGED AIR CONDITION EQUIPMENT

15.12.3.2. PACKAGED BOOSTER PUMP SYSTEM

15.12.3.3. OTHER EQUIPMENT HEREINAFTER IN OTHER SECTIONS TO BE PROVIDED WITH INTEGRAL STARTERS.

15.13. UNLESS OTHERWISE NOTED OR SPECIFIED IN INDIVIDUAL SECTION, ALL 3-PHASE MOTORS SHALL BE STANDARD NEMA CONTINUOUS DUTY "B" TYPE, WITH CLASS B INSULATION, OPEN DRIP-PROOF FRAME FOR INDOOR SERVICE, TEFC FOR OUTDOOR SERVICES AND A SERVICE FACTOR OF 1.15. ALL MOTORS 5 HP AND LARGER SHALL BE U.S. MOTORS HI-EFFICIENCY MODEL OR RELIANCE XE HI-EFFICIENCY MODEL.

15.14. EQUIPMENT CONNECTION COORDINATION

15.14.1. COORDINATE EXACT LOCATION OF OUTLETS, EQUIPMENT CONNECTIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION OF DEVICES. AS DETERMINED BY THE ACTUAL EQUIPMENT AND FURNITURE LAY OUT. VERIFY WITH FIXTURE PLAN AND EQUIPMENT INSTALLER.

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E6.2
ELECTRICAL SPECIFICATION 3

CHECKED: GMA DRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

15.14.2. COORDINATE ELECTRICAL REQUIREMENTS OF EQUIPMENT NOT SHOWN ON DETAILS, i.e. ROOF-TOP UNITS, UNIT HEATERS, FANS, ETC., AND EQUIPMENT/DEVICES REQUIRING AN ELECTRICAL CIRCUIT AND CONTROL.

16. LIGHTING FIXTURES

16.1. FURNISH AND INSTALL A COMPLETE LIGHTING FIXTURE FOR EACH LIGHTING FIXTURE SYMBOL SHOWN ON THE DRAWINGS, OF THE TYPE AND QUALITY DESCRIBED HEREIN.

16.1.1. FIXTURES SHALL BE INSTALLED COMPLETE WITH LAMPS OF THE WATTAGE INDICATED, SOCKETS, HOUSING, BALLAST (IF REQUIRED), SHADES, DIFFUSERS, SUPPORTS, ETC., AND WIRED FOR OPERATION.

16.2. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE PROPER AND ACCURATE POSITION OF SOCKETS IN ALL FIXTURES SO THAT THE FILAMENT OF THE SIZE AND TYPE LAMPS SPECIFIED, WHEN INSTALLED IN SUCH SOCKETS, WILL BE IN CORRECT RELATION TO THE CENTER OF THE FIXTURE AS SPECIFIED BY THE MANUFACTURER OF THE VARIOUS LIGHTING FIXTURES AND GLASS UNITS SPECIFIED.

16.3. ALL SOCKETS SHALL BE APPROVED BY UNDERWRITERS' LABORATORIES, INC. FLUORESCENT SOCKETS SHALL BE THRU-SLOT TYPE AND INCANDESCENT LAMP SOCKETS SHALL BE 250 VOLT CODE STANDARD, MEDIUM BASE FOR LAMPS UP TO 200 WATTS INCLUSIVE AND MOGUL BASE FOR LAMPS 300 WATTS AND LARGER.

16.4. ALL FIXTURES SHALL BE WIRED FOR POLARIZED SYSTEM WITH ONE WIRE IN EACH FIXTURE TO BE DISTINCTLY MARKED FOR ITS ENTIRE LENGTH.

16.4.1. WIRE SHALL BEAR THE LABEL OF APPROVAL OF THE UNDERWRITERS LABORATORIES, INC.

16.4.2. TYPE AF WIRE SHALL ONLY BE USED FOR INTERIOR INCANDESCENT FIXTURE WIRING.

16.5. ALL FIXTURES SHALL BE IN ACCORDANCE WITH ALL LOCAL MUNICIPAL AND STATE REQUIREMENTS GOVERNING SAME AND SHALL BE U.L. APPROVED.

16.6. EACH FIXTURE SHALL BE COMPLETELY EQUIPPED WITH LAMPS OF THE SIZE, TYPE, WATTAGE AND SHAPE INDICATED AND SPECIFIED.

16.6.1. ALL LAMPS SHALL OF STANDARD SCHEDULE MAKE.

16.6.2. LUMEN OUTPUT AND LIFE OF LAMPS SHALL BE PROPER VOLTAGE FOR THE BUILDING.

16.6.3. EXACT VOLTAGE SHALL BE CHECKED BEFORE ORDERING FIXTURES.

16.7. AT THE LOCATION OF OUTLETS INDICATED ON THE VARIOUS DRAWINGS, THE TYPE OF FIXTURE REQUIRED IS DESIGNATED BY A TYPE LETTER. ALL FIXTURES SHALL BE FURNISHED IN THE QUANTITIES, SIZES AND TYPES AS INDICATED ON THE DRAWINGS.

16.8. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT DAMAGE, BREAKING AND SCORING. DO NOT INSTALL DAMAGED FIXTURES OR COMPONENTS, REPLACE WITH NEW.

16.9. STORE LIGHTING FIXTURES IN A CLEAN DRY PLACE. PROTECT FROM WEATHER, DIRT, FUMES, WATER CONSTRUCTION DEBRIS AND PHYSICAL DAMAGE.

16.10. SHIP FIXTURES FACTORY ASSEMBLED, WITH PARTS REQUIRED FOR A COMPLETE INSTALLATION.

16.11. AT DATE OF SUBSTANTIAL COMPLETION REPLACE LAMPS IN ALL FIXTURES WHICH ARE OBSERVED TO BE INOPERATIVE OR NOTICEABLY DIMMED AFTER CONSTRUCTION USE AS JUDGED BY THE OWNER'S REPRESENTATIVE.

16.12. ALL LUMINAIRES UTILIZED FOR EMERGENCY AND/OR EGRESS LIGHTING SHALL BE CONNECTED AHEAD OF SWITCHING.

16.13. ALL BALLASTS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND CATALOG.

16.14. ALL LAMPS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND CATALOG NUMBER.

16.15. LED (LIGHT EMITTING DIODE) LIGHT FIXTURES

16.15.1. PROVIDE FACTORY INSTALLED LED MODULES THAT ARE SPECIFICALLY DESIGNED FOR, AND MATCHED AND MATED TO, THE RESPECTIVE LUMINAIRE IN WHICH THEY ARE USED.

16.15.1.1. PROVIDE LED MODULES THAT CAN EASILY BE REPLACED IN THE FIELD AND ARE READILY ACCESSIBLE FOR REPLACEMENT.

16.15.1.2. PROVIDE COLOR TEMPERATURE AS INDICATED IN LUMINAIRE SCHEDULE.

16.15.2. PROVIDE FACTORY INSTALLED DRIVER(S) FOR THE LED SOURCE UTILIZED THAT ARE SPECIFICALLY COORDINATED TO THE LED SOURCE AND LUMINAIRE IN WHICH THEY ARE USED.

16.15.2.1. PROVIDE DRIVER(S) HAVING SPECIFIC OPERATING CHARACTERISTICS DEFINED IN THE LUMINAIRE SCHEDULE.

16.15.2.2. PROVIDE DRIVER(S) THAT CAN EASILY BE REPLACED IN THE FIELD AND ARE READILY ACCESSIBLE FOR REPLACEMENT.

16.15.2.3. PROVIDE SPECIFICATION SHEET FOR THE SPECIFIC DRIVER AS PART OF THE LUMINAIRE SUBMITTAL.

16.15.3. PROVIDE TOTAL HARMONIC DISTORTION (THD) RATING OF LESS THAN 20 PERCENT.

16.15.3.1. PROVIDE FACTORY-INSTALLED INTEGRAL FILTERING SYSTEM TO ENSURE THD DOES NOT EXCEED 20 PERCENT REGARDLESS OF QUANTITIES AND/OR MIXES WITH OTHER MANUFACTURED LED SYSTEMS

16.16. INCANDESCENT LIGHT FIXTURES

16.16.1. PROVIDE INCANDESCENT LAMPS IN THE SIZES AND RATED AS INDICATED AND 130 VOLT RATED.

16.17. MOUNTING

16.17.1. ALL SURFACE AND RECESSED CEILING LUM1NAIRES INSTALLED ON GRID OR TILE CEILINGS SHALL BE INSTALLED TO AGREE WITH MODULE OF CEILING EITHER DISPLACING A TILE, OR UNIT ON CENTER OF TILE, OR CENTERED ON GRID LINES.

16.17.2. RECESSED INCANDESCENT AND FLUORESCENT FIXTURES IN CEILINGS MAY NOT BE SUPPORTED FROM THE SUSPENDED CEILING CONSTRUCTION. BOX AND FIXTURE SUPPORTS SHALL BE FASTENED SECURELY TO CONCRETE SLAB OR BAR JOIST EXCEPT AS NOTED. WHERE FIXTURES ARE SURFACE MOUNTED, NEAT HOLES SHALL BE CUT IN THE HUNG CEILINGS AS REQUIRED FOR THE FIXTURE SUPPORTS. ALL SUPPORT HANGERS, CHANNELS, BOLTS, ETC., SHALL BE GALVANIZED OR GALV-KROM.

16.17.3. PROVIDE ADEQUATE SUPPORTS FOR ALL FIXTURES SEPARATE FROM THE SUSPENDED CEILING SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY ACCESSORIES, AS REQUIRED, TO SUPPORT THE FIXTURES. PROVIDE A MINIMUM OF TWO (2) GALVANIZED STEEL #12 GAUGE HANGER WIRES (ALTERNATE CORNERS) ON ALL RECESSED FIXTURES.PROVIDE LUMINAIRES AND/OR LUMINAIRE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT LUMINAIRE WEIGHT. ALL LUMINAIRES INSTALLED IN OR ON SUSPENDED CEILING SYSTEMS SHALL BE ANCHORED DIRECTLY TO THE BUILDING STRUCTURAL SYSTEM ABOVE. SUCH ANCHORING SHALL BE INDEPENDENT OF THE CEILING SUPPORT SYSTEM.

16.17.4. ALL LUMINAIRES SHALL BE INSTALLED PLUMB AND SUPPORT SURFACE MOUNTED LUMINAIRES GREATER THAN 2 FEET IN LENGTH AT A POINT IN ADDITION TO THE OUTLET BOX LUMINAIRE STUD.

16.17.5. INSTALL FLUSH MOUNTED FIXTURES TO ELIMINATE LIGHT LEAKAGE BETWEEN FRAME AND FINISHED SURFACE.

16.17.6. ALL RECESSED LUMINAIRES SHALL BE EQUIPPED WITH NECESSARY PLASTER FRAMES AND SURFACE TRIM.

16.17.7. ALL JUNCTION BOXES AND SERVICEABLE COMPONENTS FOR RECESSED LUMINAIRES SHALL BE READILY ACCESSIBLE FOR SERVICE OR REPLACEMENT FROM BELOW THE CEILING, WITHOUT REMOVING ANY CEILING COMPONENTS (OTHER THAN TILES).

16.17.8. STEM LENGTHS OF ALL PENDANT FIXTURES SHALL BE AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

16.17.9. ALL FASTENERS, HANGERS AND METHOD OF HANGING EXPOSED WORK IN FINISHED AREAS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW BEFORE INSTALLATION.

16.17.10. FASTENERS SHALL BE ZINC-COATED, TYPE, GRADE, AND CLASS AS REQUIRED FOR A NEAT FINISHED INSTALLATION.

16.18. LIGHTING CONTROL DEVICES

16.18.1. OCCUPANCY SENSORS, DUAL TECHNOLOGY WALL SWITCHES:

16.18.1.1. PROVIDE WATTSTOPPER DW-100 WALL SWITCH (OR EQUIVALENT) AND CONFIGURE AS MANUAL ON, AUTO OFF (VACANCY SENSOR) UNLESS OTHERWISE SPECIFIED ON DRAWINGS. PROVIDE WITH TIME DELAY AS SPECIFIED ON DRAWINGS, IF NO TIME DELAY IS SPECIFIED, PROGRAM TO 10 MINUTES.

16.18.2. OCCUPANCY SENSORS, DUAL TECHNOLOGY CEILING SENSORS:

16.18.3. PROVIDE WATTSTOPPER DT-300 CEILING MOUNTED OCCUPANCY SENSOR (OR EQUIVALENT). PROVIDE WITH TIME DELAY AS SPECIFIED ON DRAWINGS. IF NO TIME DELAY IS SPECIFIED, PROGRAM TO 20 MINUTES. ADJUST SENSITIVITY BASED ON FIELD CONDITIONS AND OCCUPANCY OF ROOM TO PROVIDE 100% COVERAGE WITHOUT NUISANCE TRIPPING.

16.18.4. PROVIDE WATTSTOPPER BZ-50 UNIVERSAL VOLTAGE PACK(S} AS REQUIRED TO PROPERLY POWER ALL OCCUPANCY SENSORS AND PROVIDE SWITCHING PER THE DESIGN INTENT.

16.18.5. IN AREAS WHERE MULTIPLE OCCUPANCY SENSORS CONTROL A SINGLE ZONE TOGETHER, INTERLOCK OCCUPANCY SENSORS/POWER PACKS PER MANUFACTURER INSTRUCTIONS TO MEET CONTROL INTENT.

16.19. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING AIMABLE LUMINAIRES TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO PROJECT DURING OTHER-THAN-NORMAL OCCUPANCY HOURS FOR THIS PURPOSE. SOME OF THIS WORK MAY BE REQUIRED AFTER DARK. ADJUST AIMABLE LUMINAIRES IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND DESIGN PROFESSIONALS.

17.0. TELEPHONE/DATA SYSTEM

17.1. PROVIDE WALL AND FLOOR TELEPHONE OUTLET BOXES, CONDUITS, BACKBOARDS, SLEEVES, OUTLET RINGS, PULL STRINGS, RECEPTACLES, AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS FOR USE BY THE TELEPHONE COMPANY AND THE OWNER'S VOICE/DATA VENDOR.

17.2. ALL CHARGES BY THE UTILITY COMPANY SHALL BE PAID BY THE OWNER.

17.3. WALL OUTLETS FOR TELEPHONE/DATA SHALL CONSIST OF A SINGLE GANG RING WITH PULL STRING TO THE CEILING SPACE. IN EXPOSED AREAS OR BLOCK WALLS PROVIDE A 4" SQUARE BOX WITH RAISED SINGLE GANG COVER AND 3/4" EMPTY CONDUIT TO THE NEAREST ACCESSIBLE CEILING OR JOIST SPACE.

17.4. ALL ELBOWS IN CONDUIT RUNS SHALL BE WIDE SWEEP FIELD BENDS. INSTALL PULL BOXES AS REQUIRED AND WHERE DIRECTED BY THE TELEPHONE COMPANY AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

17.5. PROVIDE NYLON PULL WIRE IN ALL CONDUITS LEFT EMPTY. ALL CONDUITS SHALL BE TERMINATED WITH NYLON INSULATING BUSHINGS.

17. TELEPHONE/DATA SYSTEM

17.1 PROVIDE WALL AND FLOOR TELEPHONE OUTLET BOXES, CONDUITS,BACKBOARDS, SLEEVES, OUTLET RINGS, PULL STRINGS, RECEPTACLES, AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS FOR USE BY THE TELEPHONE COMPANY AND THE OWNER'S VOICE/DATA VENDOR.

17.2 ALL CHARGES BY THE UTILITY COMPANY SHALL BE PAID BY THE OWNER.

17.3 WALL OUTLETS FOR TELEPHONE/DATA SHALL CONSIST OF A SINGLE GANG RING WITH PULL STRING TO THE CEILING SPACE. IN EXPOSED AREAS OR BLOCK WALLS PROVIDE A 4" SQUARE BOX WITH RAISED SINGLE GANG COVER AND 3/4" EMPTY CONDUIT TO THE NEAREST ACCESSIBLE CEILING OR JOIST SPACE.

17.4 ALL ELBOWS IN CONDUIT RUNS SHALL BE WIDE SWEEP FIELD BENDS. INSTALL PULL BOXES AS REQUIRED AND WHERE DIRECTED BY THE TELEPHONE COMPANY AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

17.5 PROVIDE NYLON PULL WIRE IN ALL CONDUITS LEFT EMPTY. ALL CONDUITS SHALL BE TERMINATED WITH NYLON INSULATING BUSHINGS.

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION

8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E6.3
ELECTRICAL SPECIFICATION 4

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 2026.0771 - TIMBER DEVELOPMENT-SHELL AND TENANT - BALL GROUND, GA
Project Type: New Construction

Construction Site:
8113 BALL GROUND HWY,
BALL GROUND, Georgia 30107

Owner/Agent:
MICHAEL TIMMONS
TIMBER DEVELOPMENT CORP.
1060 WEST STATE RD. 434, SUITE 156
LONGWOOD, Florida 32750
407-227-7277
TIMBERDEV@AOL.COM

Designer/Contractor:
Interplan LLC
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, Florida 32701
407-645-5008

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-FOODLION STORE (Common Space Types:Sales Area)	12407	1.59	19727
		Total Allowed Watts =	19727

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-FOODLION STORE (Common Space Types:Sales Area)				
LED: A/AE: Other:	1	3	35	105
LED: B/BE: Other:	1	1	24	24
		Total Proposed Watts =		129

Interior Lighting PASSES: Design 99% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design 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 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mina Samaan — Name - Title
Mina Samaan — Signature
10/27/26 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COM*check* 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 [PR4][1]	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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

NO DATE REMARKS
REVISIONS

PHASE I & II – BUILDING DEVELOPMENT

TIMBER DEVELOPMENT CORPORATION
8113 BALL GROUND HWY
BALL GROUND, GA 30107

PROJECT NO: 2026.0771
DATE: NOVEMBER 02, 2026

E8.0
ELECTRICAL ENERGY CALCULATIONS

CHECKED: GMADRAWN: BJ

COPYRIGHT © 2026 INTERPLAN LLC RESERVES COPYRIGHT & OTHER RIGHTS RESTRICTING THESE DOCUMENTS TO THE ORIGINAL SITE OR PURPOSE FOR WHICH THEY WERE PREPARED. REPRODUCTIONS, CHANGES OR ASSIGNMENTS ARE PROHIBITED.