

ELECTRICAL NOTES

1. GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.

THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.

THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.

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

UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY, SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.

2. SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE", "BY OTHERS", OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.

3. EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.

4. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.

5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.

6. CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE, WHERE PVC CONDUIT IS INSTALLED UNDERGROUND. ELBOWS TURNING UP AND CONDUIT ENTERING GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).

ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.

7. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #4 AWG (CU) OR #2 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #8 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS. CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TIGHT TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG AND SMALLER SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33 OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.

8. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.

9. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS.

FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.

10. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.

11. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

NOTE

ANY BREAKER THAT CONTROLS AN EXIT SIGN AND/OR EMERGENCY LIGHT SHALL BE IDENTIFIED. EMERGENCY LIGHTS SHALL BE ON THE NEAREST LIGHTING CIRCUIT.

NOTE

75% OF ALL LIGHTS MUST BE HIGH EFFICIENCY LIGHTING. FDCE 404

NOTE

ACCULITE BRAND #DU50F8-QT EXTERIOR LIGHTING FIXTURE WALL PACK MOUNTED ADJACENT TO EGRESS DOOR SHALL PROVIDE A MINIMUM OF 1 FOOTCANDLE OF ILLUMINATION AT THE FLOOR LEVEL OF THE EXIT DISCHARGE.

NOTE

ALL LIGHTING FIXTURES WILL HAVE AUTOMATIC LIGHTING SHUT OFF OCCUPANCY SENSOR PER FBC ENERGY CONSERVATION CODE SECTION B0522

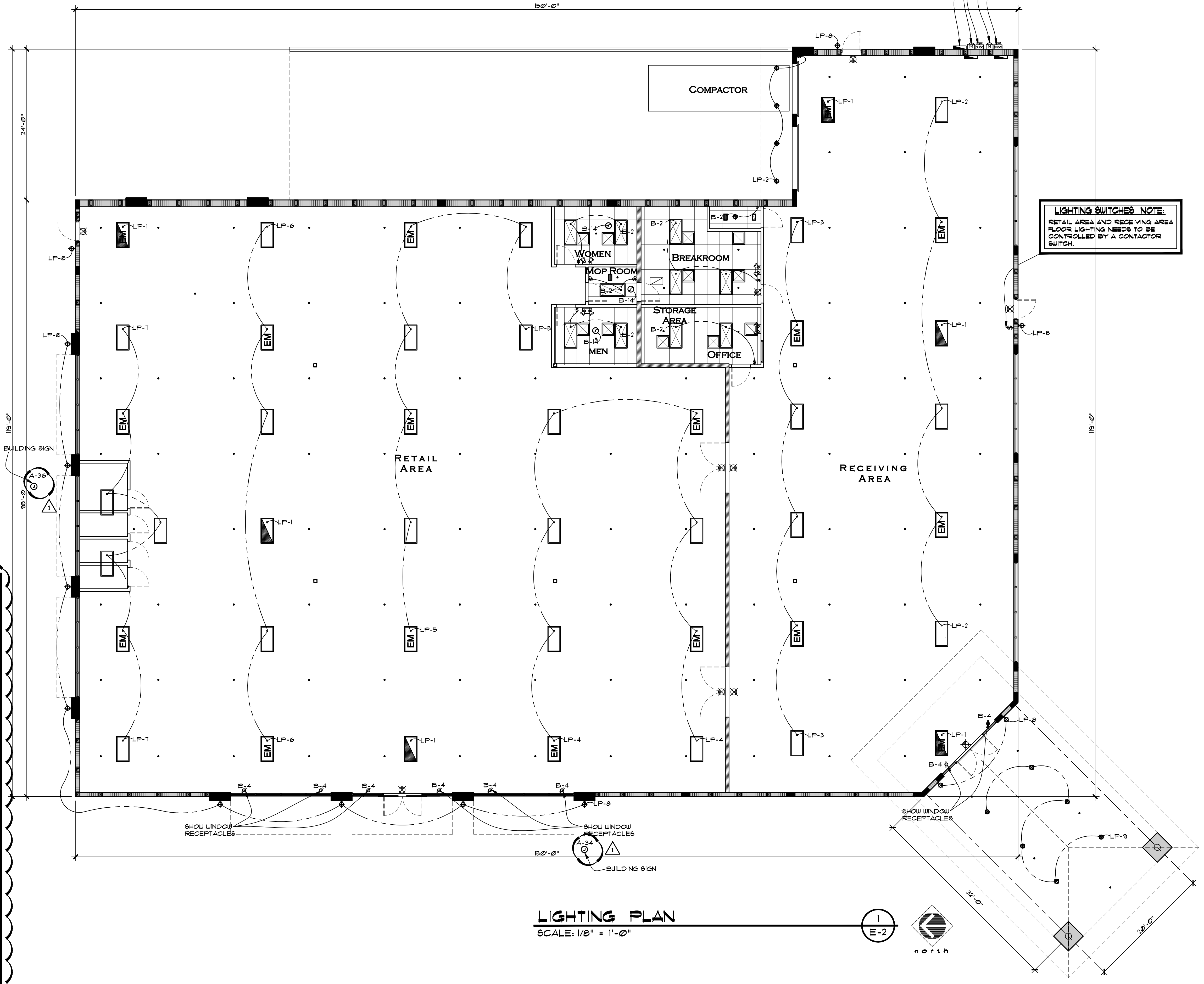
NOTE

RETAIL AND RECEIVING AREA LIGHTING FIXTURES SHALL BE ON A TIMECLOCK

NOTE

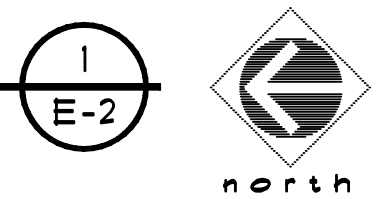
OFFICE SHALL HAVE 50% OF RECEPTACLES MEETING AUTOMATIC RECEPTACLE CONTROL PER C405.1.1 ASHRAE 90.1 SECTION 8.4.2

FIXTURE TAG	QUANTITIES	SYMBOL LEGEND
A	27	INDICATES HE WILLIAMS MODAL GL-4-6-32-UD-VBY-2-EB3/3-UNV 2X4 6 LAMP T8 FIXTURE
A-EM	17	INDICATES HE WILLIAMS MODAL GL-4-6-32-UD-VBY-2-EB3/3-UNV / EMBATTERY 2X4 6 LAMP T8 FIXTURE WITH EMERGENCY BATTERY
B	10	INDICATES HE WILLIAMS MODAL 50-G-9-2-4-4-32-9-A1215-EB4-UNV 2X4 T8 4 LAMP FIXTURE
C	10	INDICATES BEGHELLI MODAL V44-R-8A-AT LED EXIT SIGN WITH BATTERY BACKUP
D	4	INDICATES BEGHELLI MODAL 2 LAMP EMERGENCY FLOOD LIGHT WITH BATTERY BACKUP CATALOG NUMBER FEH-AT
E	13	INDICATES KICHLER 19" EXTERIOR LED WALL SCONCE CATALOG NUMBER 49598AZLED
F	--	INDICATES HE WILLIAMS MODAL GL-4-6-32-UD-VBY-2-EB3/3-UNV / 2X4 6 LAMP T8 FIXTURE CIRCUITED FOR CONTINUOUS OPERATION ON LOCKED CIRCUIT (NIGHTLIGHT FUNCTION)
G	10	INDICATES LITON 6" RECESSED LED DOWNLIGHT EXTERIOR RATED UNDER AINING CATALOG NUMBER LRLDH642-UL / LSHLD616C35-UE / LRLDH642C-UL
		INDICATES TYPICAL SWITCH
		INDICATES 3 WAY SWITCH
		INDICATES HIGH CAPACITY EXHAUST FAN
		INDICATES HVAC SUPPLY DIFFUSER
		INDICATES HVAC RETURN AIR GRILLE
		INDICATES ELECTRICAL DISTRIBUTION PANEL
		INDICATES JUNCTION BOX



LIGHTING SWITCHES NOTE:
RETAIL AREA AND RECEIVING AREA FLOOR LIGHTING NEEDS TO BE CONTROLLED BY A CONTACTOR SWITCH.

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



Revisions:
1 9-19-16 OWNER REVISION
2
3
4
5

Project Number
160412

1066 U.S. HIGHWAY 1
NEW RETAIL BUILDING - GOODWILL
1066 U.S. HIGHWAY 1
VERO BEACH, FLORIDA

Project Name
NEW RETAIL BUILDING

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ARCHITECT & DESIGNERS, INC.

CLIENT APPROVAL SET
9-19-16
(NOT FOR CONSTRUCTION)

Drawn By: RSS	Checked By: STB
Scale: SHOWN	Date: 7-29-16

Project Number
160412

Sheet:
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