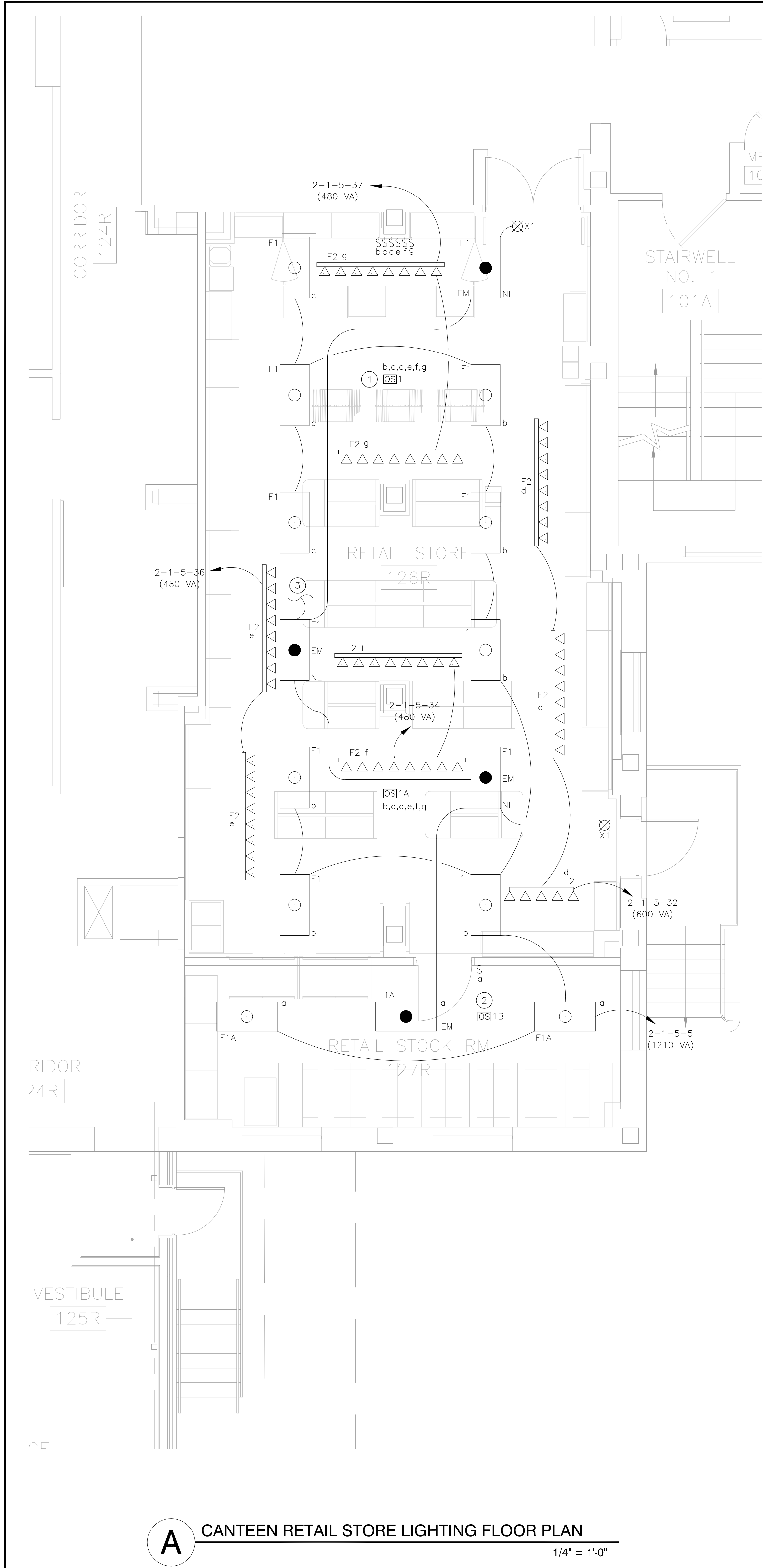


three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one eighth inch = one foot
one eighth inch = one foot
one eighth inch = one foot

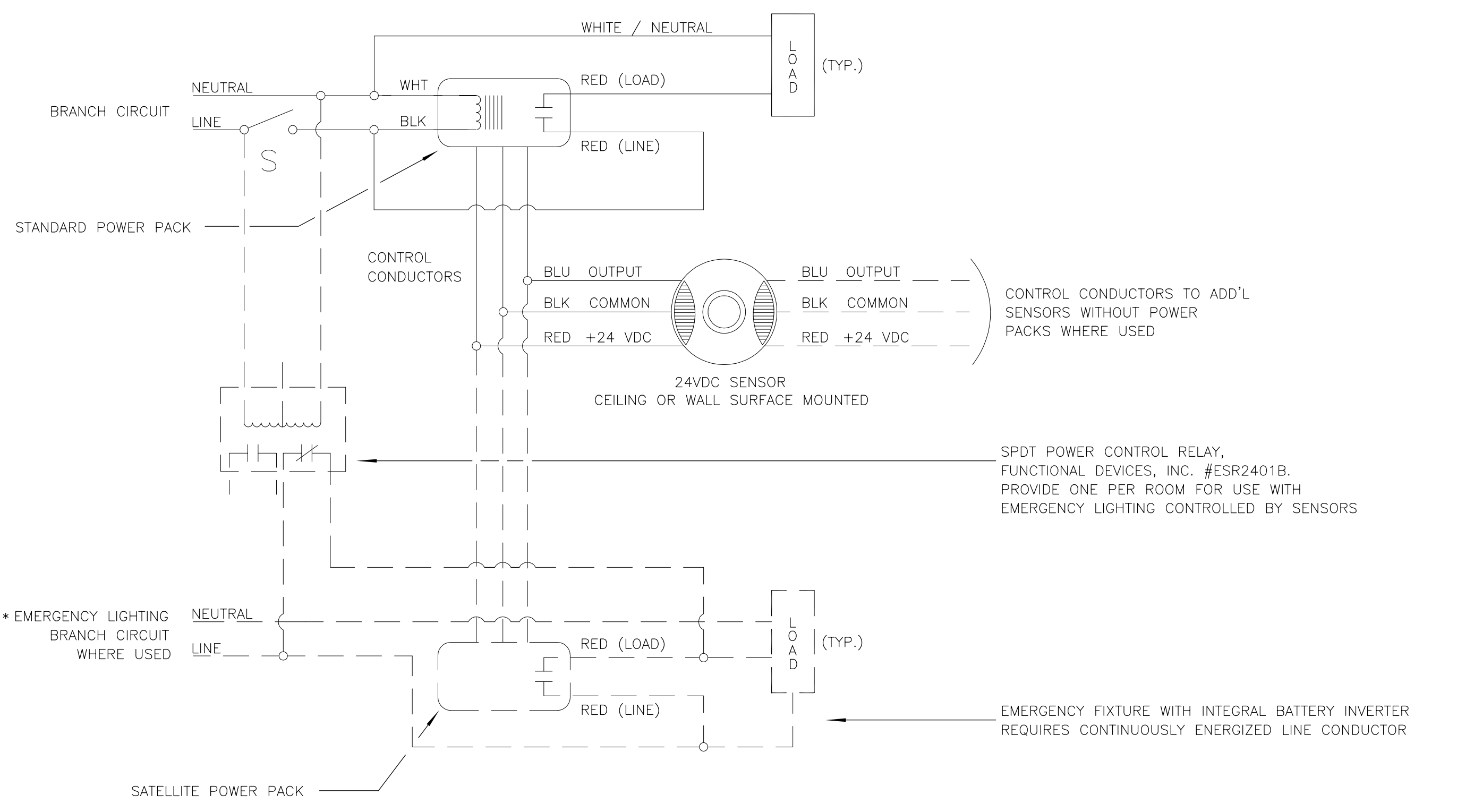


A CANTEEN RETAIL STORE LIGHTING FLOOR PLAN
1/4" = 1'-0"

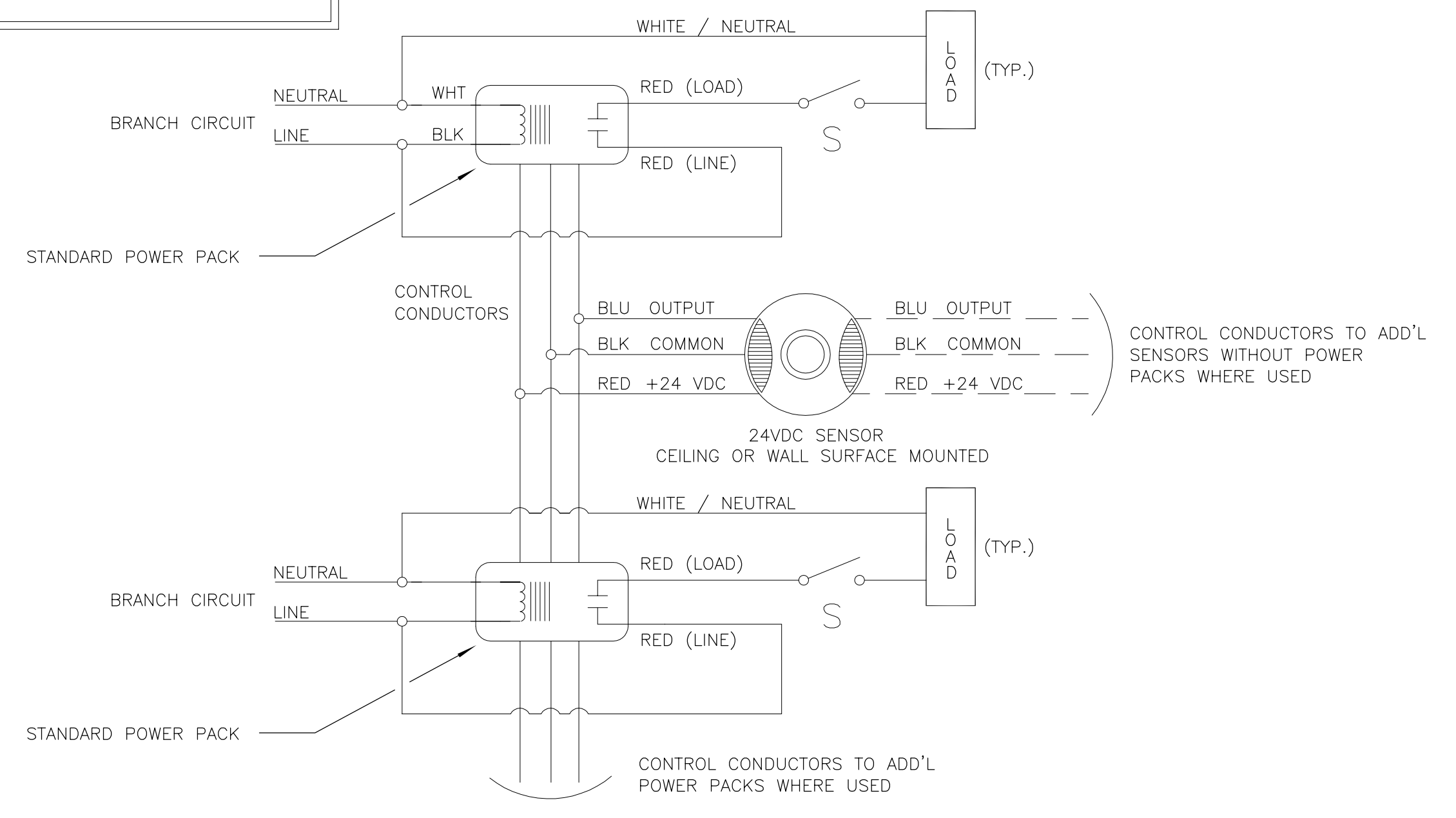
LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER & MODEL NUMBER	MOUNTING	NOMINAL DIMENSIONS	LAMPS	VOLTAGE	BALLAST	DETAILS
F1	WILLIAMS 50G-S24-432-RA19156- EB3/OPLWUNV	RECESSED	24"W X 48"L X 4-3/8"D	4-F32T8/ SPX41/ECO	120	ELECTRONIC ADVANCE IOP-4532- SC	SPECIFICATION GRADE STATIC TROFFER. HOUSING CONSTRUCTED OF 22 GAUGE .028 INCH UNCOATED MINIMUM THICKNESS COLD ROLLED STEEL. MINIMUM LAMP TO LENS DIMENSION NOT LESS THAN 2-3/4" FROM CENTER OF LAMP TO BOTTOM OF LENS. LAMP CENTERS (IN A FOUR LAMP FIXTURE) TO BE AT LEAST 5-1/2" SPACING. FINISHED INTERIOR HOUSING SHALL HAVE A MINIMUM 90% REFLECTANCE. WITH PHOTOMETRICS OF LUMINAIRES CONDUCTED BY AN INDEPENDENT TESTING LAB. REGRESSED ALUMINUM DOOR FRAME WITH MITERED CORNERS, TWO SAFETY T-HINGE ASSEMBLIES AND FULLY ENCLOSED SPRING-LOADED CAM LATCHES, WITH THE OPTION OF HINGING OR LATCHING FROM EITHER SIDE. DOOR FRAME GASKETED TO PREVENT DUST ACCUMULATION AND LIGHT LEAK. PATTERN 19, VIRGIN ACRYLIC LENS WITH A NOMINAL THICKNESS OF .156". GROUNDING SCREWS INSTALLED ON THE INTERIOR OF THE WIREWAY. ALL METAL FIXTURE PARTS TO HAVE ELECTROSTATICALLY APPLIED, BAKED-ON WHITE POLYESTER POWDER COAT FINISH, AFTER FIXTURE FABRICATION.
F1A	WILLIAMS 50G-S24-432-RA19156- EB3/OPLWUNV	RECESSED	24"W X 48"L X 4-3/8"D	2-F32T8/ SPX41/ECO	120	ELECTRONIC ADVANCE IOP-2532- SC	SIMILAR TO F1 EXCEPT TWO-LAMP UNIT.
F2	TRACK LIGHTING ASSEMBLY FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR	SURFACE	LENGTHS AS INDICATED ON PLANS	LAMPS PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR	120	-	TRACK LIGHTING ASSEMBLY PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. INSTALL ALL MOUNTING AND POWER SUPPLY ACCESSORIES FOR FULLY FUNCTIONING TRACK LIGHTING ASSEMBLY. COORDINATE FINAL AIMING OF TRACK FIXTURES WITH OWNER.
X1	BEGHELLI LC1E-HT-LG-1-W-AL	UNIVERSAL SURFACE	8-1/2"W X 12"L X 1-3/4"D	GREEN LED INCLUDED	120	-	LINE VOLTAGE ONLY LED EXIT SIGN WITH WHITE DIE-CAST ALUMINUM HOUSING AND SINGLE DIE-CAST BRUSHED ALUMINUM STENCIL LETTERING PANEL. CANOPY AND MOUNTING HARDWARE INCLUDED FOR WALL, CEILING OR END MOUNTING APPLICATIONS. SNAP OUT DIRECTIONAL CHEVRONS.
EM	EMERGENCY LIGHTING INVERTER	FIXTURE	-	-	120	-	FACTORY INSTALLED SELF-TESTING FLUORESCENT LIGHTING EMERGENCY INVERTER WITH HIGH-TEMPERATURE, MAINTENANCE FREE NICKEL CADMIUM BATTERIES. SELF-DIAGNOSTIC MICROPROCESSOR CONDUCTS INVERTER COMPONENT TESTING AND COMPLIES WITH NFPA LIFE SAFETY CODE 101 UNIT EQUIPMENT TESTING REQUIREMENTS. INVERTER AUTOMATICALLY CONDUCTS A 30 SECOND TEST EVERY THIRTY DAYS AND A 90 MINUTE TEST ANNUALLY. TEST RESULTS AND COMPONENT STATUS CONDITIONS ARE INDICATED THROUGH AUDIBLE ALARM AND LED DISPLAYS. 120/277 DUAL VOLTAGE INPUT. UL LISTED FOR INSTALLATION INSIDE OR OUTSIDE OF FIXTURE. MANUAL TEST SWITCH AND LED INDICATOR CAN BE MOUNTED EITHER REMOTELY OR INSIDE FIXTURE WITH LED READILY VISIBLE. THE TYPE AND MODEL OF INVERTER SHALL COMPLY WITH THE FOLLOWING WIRING CONFIGURATION, LAMP TYPE AND LUMEN OUTPUT WHEN IN EMERGENCY OPERATION. COORDINATE INSTALLATION WITH MANUFACTURERS OF LIGHTING FIXTURE TYPES DESIGNATED WITH "EM" FOR EMERGENCY OPERATION. (1)32 WATT F032 - 1300 LUMENS
				APPROVED EQUALS			
				FIXTURE MANUFACTURERS:		COLUMBIA SPS SERIES, DAYBRITE 2DG SERIES, LUMAX RG SERIES, METALUX GC SERIES	
				BALLAST MANUFACTURERS:		GE, OSRAM SYLVANIA, ULT	
				FIXTURE MANUFACTURERS:		AS LISTED FOR F1	
				BALLAST MANUFACTURERS:		AS LISTED FOR F1	
				FIXTURE MANUFACTURERS:		-	
				MANUFACTURERS:		EMERGLITE LEDP SERIES MCPHILBEN 55L SERIES LIGHTALARMS XLED SERIES	

OCCUPANCY SENSOR SCHEDULE					
TYPE	MANUFACTURER & MODEL NUMBER	MOUNTING	VOLTAGE	DETAILS	APPROVED EQUALS
OS1	HUBBELL BUILDING AUTOMATION OMNIDT2000/(S)UVPP	CEILING	120/24	2000 SQUARE FOOT COVERAGE ULTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR WITH WHITE FINISH AND FIVE 100-277/24 VOLT POWER PACKS. INTEGRAL SELF-ADJUSTING SENSITIVITY MICROPROCESSOR. 360° ULTRASONIC AND PASSIVE INFRARED COVERAGE. FULL FIVE YEAR WARRANTY FURNISHED BY MANUFACTURER.	WATTSTOPPER DT-300 SERIES
OS1A	HUBBELL BUILDING AUTOMATION OMNIDT2000	CEILING	120/24	SIMILAR TO OS2 EXCEPT WITHOUT 100-277/24 VOLT POWER PACK. EXTEND CONTROL CONDUCTORS TO ASSOCIATED SENSORS CONTROLLING COMMON LIGHTING SWITCH LEG(S). FULL FIVE YEAR WARRANTY FURNISHED BY MANUFACTURER.	WATTSTOPPER DT-300 SERIES
OS1B	HUBBELL BUILDING AUTOMATION OMNIDT2000/UVPP/MPSA	CEILING	120/24	SIMILAR TO OS1 EXCEPT WITH SATELLITE POWER PACK FOR NORMAL AND EMERGENCY CIRCUIT OPERATION. PROVIDE EMERGENCY LIGHTING CIRCUIT SHUNT RELAY AS INDICATED ON PLANS. FULL FIVE YEAR WARRANTY FURNISHED BY MANUFACTURER.	WATTSTOPPER DT-300 SERIES

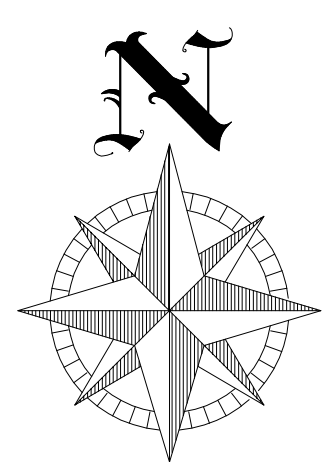
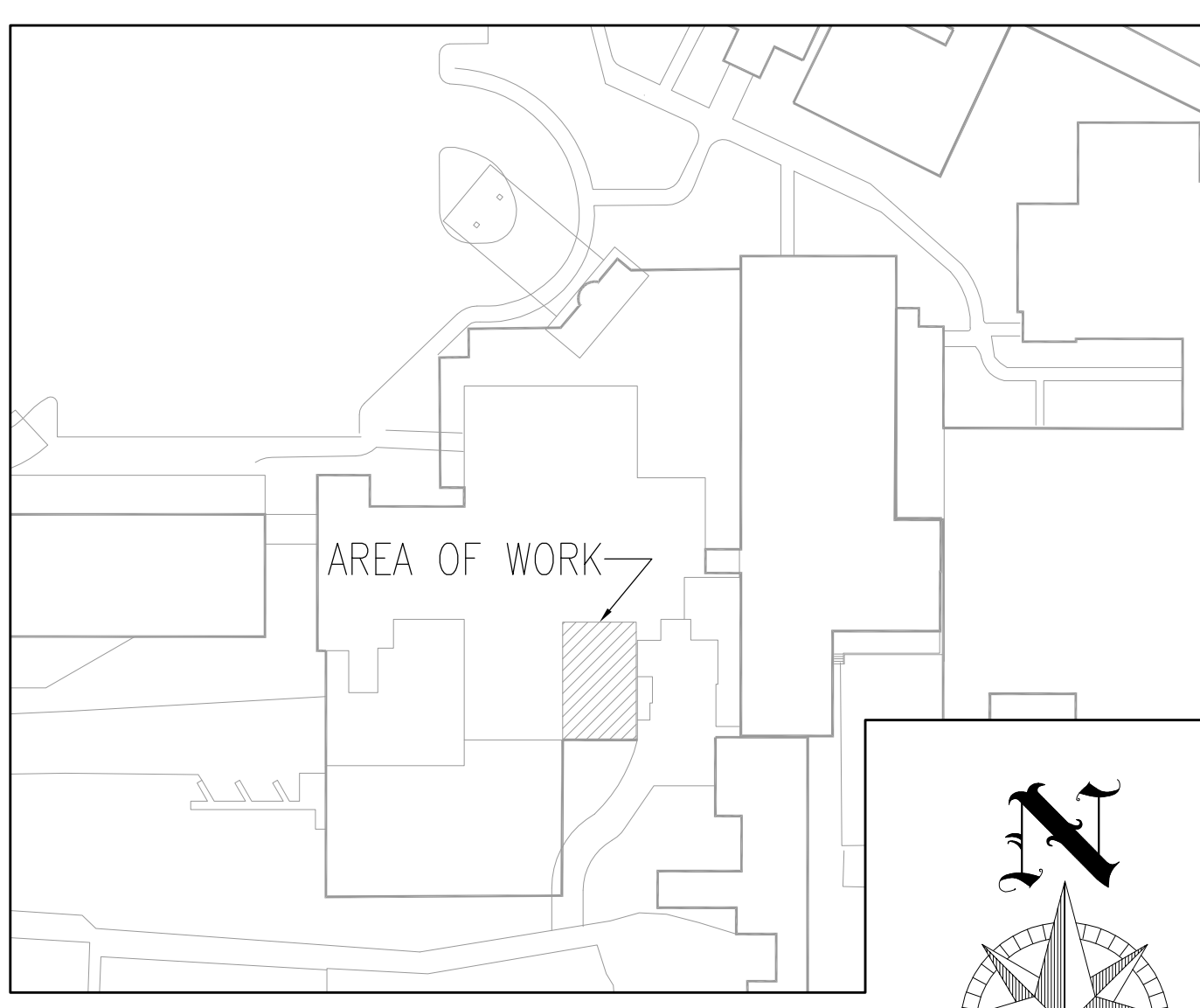
- * OCCUPANCY SENSOR MANUFACTURER SHALL PROVIDE FACTORY AUTHORIZED REPRESENTATIVE FOR PRE-INSTALLATION TRAINING TO CONTRACTOR.
- * OCCUPANCY SENSORS TIMED OFF SETTING TO BE CALIBRATED AT 20 MINUTES MINIMUM AND 30 MINUTES MAXIMUM.



2 MANUAL ON & SENSOR LIGHTING CONTROL WIRING - TYPICAL
NOT TO SCALE



1 MANUAL ON & SENSOR LIGHTING CONTROL WIRING - TYPICAL
NOT TO SCALE



Revisions:	Date:	CONSULTANTS:	BUILDING IS FULLY SPRINKLED	ARCHITECT/ENGINEERS: BROOKS BORG SKILES ARCHITECTURE ENGINEERING LLP 317 6th Avenue, Suite 400 Des Moines, IA 50309-4136 515 244 7167 AE PROJECT NO. 10031	Drawing Title FIRST FLOOR LIGHTING PLAN Scale: AS NOTED Approved: Project Director	Project Title CANTEEN RETAIL STORE Location DES MOINES, IOWA Date 11/01/2011	Project Number 636A6-10-712 Building Number 2 Drawing Number EL101 Dwg. 15 of 16	Department of Veterans Affairs
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