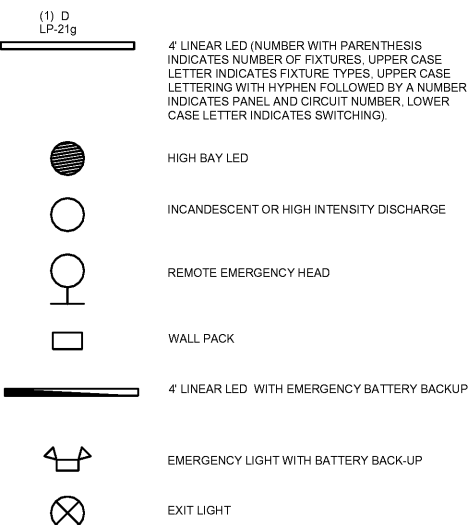


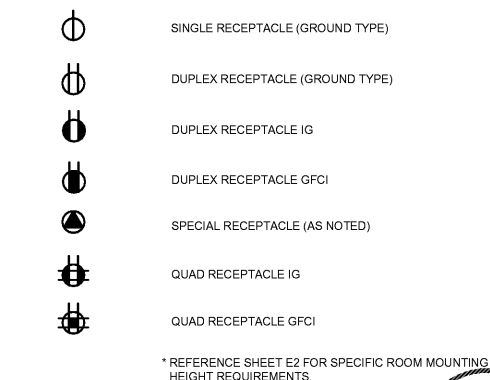
ELECTRICAL SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON DRAWINGS, ALL MOUNTING HEIGHTS ARE TO BE FROM THE CENTER OF THE DEVICE)

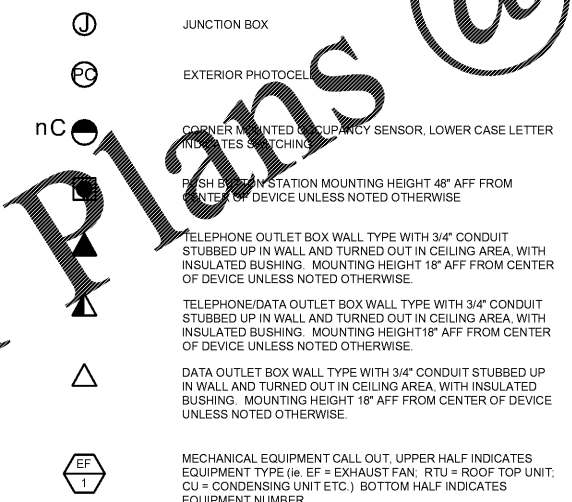
LIGHTING FIXTURES



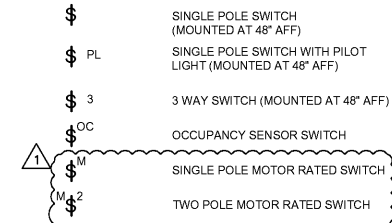
RECEPTACLES



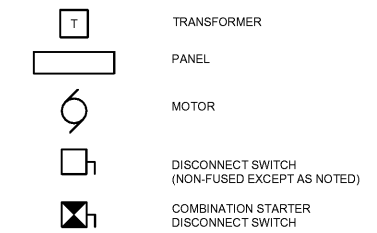
MISCELLANEOUS



SWITCHES



POWER AND CONTROL



ELECTRICAL ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	IC	INTERRUPTING CAPACITY
BFC	BELOW FINISHED CEILING	IG	ISOLATED GROUND
C	CONDUIT	MTD	MOUNT OR MOUNTED
CB	CIRCUIT BREAKER	NC (N.C.)	NORMALLY CLOSED
EC	EMPTY CONDUIT	NF	NON FUSED
EOL	END OF LINE	NIC	NOT IN CONTRACT
(G)	GROUND (EQUIPMENT)	NL	NIGHT LIGHT
GFCI	GROUND FAULT INTERRUPTER	NO (N.O.)	NORMALLY OPEN
SW	SWITCH	UF	UNDER FLOOR
UG	UNDERGROUND	UNO (U.N.O.)	UNLESS NOTED OTHERWISE
WG	WIRE GUARD	WP	WEATHERPROOF
XFMR	TRANSFORMER		

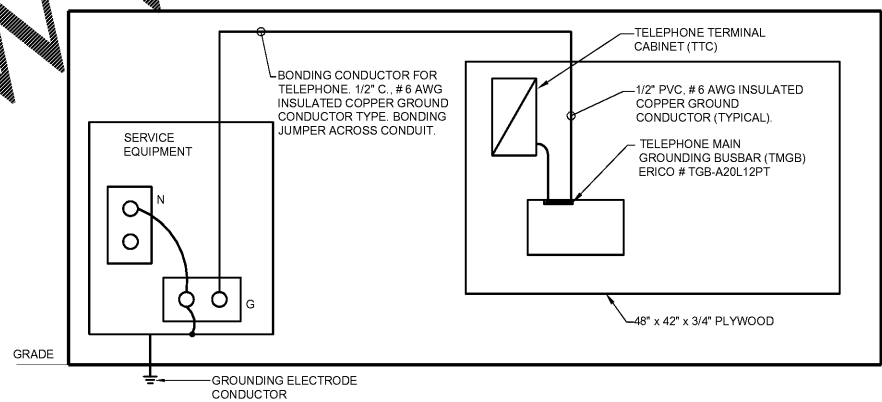
LIGHT FIXTURE SCHEDULE									
FIXTURE TAG	MANUFACTURER	MODEL #	LAMP	VOLTAGE	INSTALLATION	DESCRIPTION	WATTS	QUANTITY	NOTES
A	ALCON	12304	LED BLUB 50W PAR20 EQUIV LED	120V	80" AFF TO BOTTOM CEILING AND SUSPENDED	LED PENDANT	9	7	
D	CREE	LS4C-40L-35K-10V	LED	120V	CEILING AND SUSPENDED	4' LINEAR LED FIXTURE	34	35	5.6,7
DE	CREE	LS4C-40L-35K-10V-EB14	LED	120V	CEILING AND SUSPENDED	4' LINEAR LED FIXTURE WITH EMERGENCY BACKUP	34	10	5.6,7
E	CREE	E.XML1W	LED	120V	SEE NOTES	EMERGENCY LIGHTING UNIT	1.8	10	1
EA	CREE	E.XHL2WW	LED	120V	SEE NOTES	EMERGENCY EXTERIOR REMOTE HEADS	2	3	2
F	CREE	KBL-A-UV-M-40K-8-UL-10V-AP-L1515A CXBA16N-WG-A	LED	120V	13'-0" AFF	HIGH BAY LED LIGHTING FIXTURE	142	21	3
K	PROVIDED BY OWNER	FIRESTONE REEL CORD LIGHT	INTEGRAL	120V	SUSPEND	PROVIDED BY OWNER	5	8	
N	CREE	XSPW-8-WM-3ME-2L-57K-JL	LED	120V	SEE ARCH ELEVATIONS	EXTERIOR LED WALL PACK	19	28	
X	CREE	E.XCLR2RRCW- E.XHL2WW	LED	120V	SEE NOTES	EXIT SIGN WITH REMOTE RESPONSIBILITY	3.4	5	4.8

- NOTES:
- FIXTURE IS TO BE INSTALLED ON WALL OR PENDANT MOUNTED FROM CONDUIT ON CEILING, MINIMUM OF 1'-0" BELOW CEILING IN SERVICE BAY AREA
 - REMOTE HEAD WALL MINIMUM OF 1'-0" ABOVE DOOR JAMB CONNECTED TO BATTERY SIDE OF EXIT LIGHT.
 - INSTALL LIGHTS AT 13'-0" A.F.F. IN THE SERVICE BAY.
 - INSTALL ON WALL 6" ABOVE DOOR OR SURFACE MOUNT ON CEILING AS APPLICABLE.
 - INSTALL LIGHTS AT 8'-0" A.F.F. IN THE FOLLOWING AREAS: UTILITY AREA, BREAK AREA, SHOP TOILET, AND INVENTORY TOILET.
 - FIXTURE TO BE MOUNTED TO BOTTOM OF ROOF PURLIN OR BAR JOIST IN SERVICE BAY AND INVENTORY.
 - INSTALL LIGHTS AT 10'-0" A.F.F. IN THE FOLLOWING AREAS: CUSTOMER SHOW ROOM, AND OFFICE
 - INSTALL PENDANT MOUNTED FROM CONDUIT ON CEILING IN INVENTORY AREA 36" TOP OF SIGN, 36" BELOW BOTTOM OF ROOF PURLIN OR BAR JOIST.

LIGHTING GENERAL NOTES

- ALL LIGHTING FIXTURES SHALL BE RATED FOR BUILDING SYSTEM VOLTAGE. CONTRACTOR SHALL VERIFY ALL LOCATIONS CONTRACTOR SHALL FINISH AND INSTALL EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.
- VERIFY AND COORDINATE ALL LIGHTING FIXTURE CATALOG NUMBERS AND LOCATIONS WITH THE INTENT OF THE ARCHITECT. VERIFY AND VERIFY FIXTURE DESCRIPTIONS, LISTE AND VERIFY FIXTURE QUANTITIES. FIXTURE QUANTITIES SHOWN ARE FOR INFORMATION ONLY. ANY DISCREPANCY SHALL BE REPORTED IN WRITING TO THE ARCHITECT PRIOR TO INSTALLATION.
- ALL FIXTURES SHALL BE "U.L." LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER OR MOISTURE SHALL BE "WET LOCATION" LABEL, AND LIGHTING FIXTURES EXPOSED TO DAMPNESS SHALL BEAR U.L. "DAMP LOCATION" LABEL.
- ALL EXIT SIGNS SHALL BE INSTALLED COMPLETE WITH ALL INSTALLATION AND HANGING ACCESSORIES TO PROVIDE AN UNOBSTRUCTED VIEW OF EACH SIGN FACE AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND LOCATION OF ALL EXIT SIGNS WITH LOCAL AUTHORITIES. MOUNT SIGNS AT MAXIMUM 8'-0". EXIT SIGNS WILL BE ADJUSTED AS NECESSARY WITHOUT ADDITIONAL COST.
- REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LIGHTING FIXTURES.
- ALL EXIT SIGNS AND BATTERY EMERGENCY UNITS MUST BE APPROVED BY LOCAL CODE, AND MAINTAIN A MINIMUM OF 90 MINUTES OF CONTINUOUS ILLUMINATION, AND SHALL PROVIDE A MINIMUM OF 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL IN SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS. THE CONTRACTOR WILL FURNISH AND INSTALL ANY ADDITIONAL EMERGENCY UNITS AS REQUESTED BY THE LOCAL AUTHORITY HAVING JURISDICTION AT THE FINAL INSPECTION ANY ADDITIONAL COST TO BE APPROVED BY THE OWNER.
- FIELD ADJUST AIMING PATTERN OF EXTERIOR LIGHTS AT NIGHT SESSION. OWNER AND ARCHITECT TO DETERMINE TIME AND DATE.
- ALL WALL WASH LIGHTING TO BE ON SEPARATE SWITCHES.

- NOTES:
- INSULATED # 6 AWG IN 1/2" C. ROUTED OVERHEAD.
 - INCLUDE NONMETALLIC LABEL "WARNING IF THIS CONNECTOR ON CABLE IS LOOSE OR MUST BE REMOVED PLEASE CALL THE BUILDING MANAGER" AT ALL GROUND BARS.
 - RUN CONDUCTOR FROM GROUND TO TELEPHONE TERMINAL CABINET.
 - ALL CONNECTORS TO GROUND BARS SHALL BE 2 HOLE COMPRESSION TYPE.
 - GROUNDING BARS SHALL BE ELECTROLYTIC COPPER, MOUNTED ON FIBERGLASS INSULATORS, AND NEMA BOLT HOLE SIZING AND SPACING.
 - ALL BONDING CONDUCTORS SHALL BE CONTINUOUS AND ROUTED IN THE SHORTEST POSSIBLE STRAIGHT LINE PATH.
 - ROUTE INSULATED # 6 AWG FROM EACH "TMGB" AND "TTC" TO NEAREST VERTICAL STRUCTURAL STEEL MEMBER AND CADWELD.
 - ROUTE CONDUCTOR FROM "TMGB" AND "TTC" TO RELAY RACK IN IT CLOSET AND CADWELD TO RACK.
 - ALL TELEPHONE CLOSETS WITH MULTIPLE WIRE MANAGEMENT RACKS WILL HAVE BONDING JUMPER INSTALLED.



1 TELEPHONE GROUNDING DETAIL AND NOTES
E3 SCALE: NONE

GENERAL ELECTRICAL NOTES

- THESE GENERAL NOTES APPLY TO ALL WORK IN THIS PROJECT, AND THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL GENERAL NOTES WHICH WILL APPLY HERE.
- DO NOT SCALE DRAWINGS, USE FIELD MEASUREMENTS.
- NOTES ON DRAWINGS MAY APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVER PLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED.
- CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALL SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITH OUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY TOTAL CONNECTED LOADS AND HORSE POWER WITH OTHER TRADES CONTRACTORS PRIOR TO WIRING OF ALL EQUIPMENT. MAKE ANY CHANGES TO OVERCURRENT DEVICES OR FEEDER SIZE PER LOCAL ELECTRICAL CODE.
- COORDINATE THE LOCATION OF ALL DETECTORS WITH LIGHT FIXTURES, AND CEILING DIFFUSERS.
- ALL TEMPERATURE CONTROL WIRING AND CONDUIT SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. THIS CONTRACTOR SHALL ADJUST CONDUIT ROUTING TO NOT INTERFERE WITH ANY HANGING SIGNS OR BOARDS. COORDINATE ALL CONDUIT LOCATIONS WITH THE "F1" DRAWING PRIOR TO ROUGH-IN TO ENSURE NO ENCROACHMENT OF CONDUIT OR DEVICE WITH SIGNS OR BOARDS.
- VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS, PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF A HVAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW OR WITHIN 36" OF A SPRINKLER HEAD.
- THE COLOR OF ALL ISOLATED GROUND RECEPTACLES AND COVER PLATES SHALL MATCH THOSE OF OTHER DEVICES ON THE JOB.
- ROUTE ALL CONDUITS CONCEALED ABOVE ALL CEILING TYPES. ONLY IN "SERVICE BAY AREA", AND "INVENTORY AREA" CONDUIT SHOULD BE ROUTED 1-1/2" AWAY OR AS TIGHT AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE, IN A CLEAN AND ORDERLY MANNER, IN AREAS WHERE NO CEILING EXISTS, AND STEEL OPEN WEB JOISTS ARE BEING USED, ROUTE CONDUIT AND UNISTRUT TIGHT TO BOTTOM OF TOP CORD OF JOIST, AND THRU JOIST WEBBING, IN A CLEAN AND ORDERLY MANNER. ABSOLUTELY NO CONDUITS ARE TO BE ROUTED UNDER OR IN THE BUILDING SLAB. SEE ARCHITECTURAL PLANS FOR LOCATION OF ACCESS PANELS IN CEILINGS.
- ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH LATEST "N.E.C." AND ALL LOCAL CODES AND ORDINANCE. IN CASE OF CONFLICT AMONG REQUIREMENTS THE MORE RESTRICTING SHALL APPLY. ALL WORKING CLEARANCES ABOVE AND BELOW PANELS SHALL CONFORM TO NEC ARTICLE 110 WHICH INCLUDES ALL TRADES. CONTRACTOR MAY USE PULL BOXES, WIREWAYS ETC. AS NECESSARY TO MANAGE CONDUIT ROUTING CLEAR OF THE WORK SPACE AS DEFINED BY THE NEC. THIS SHALL BE CONSIDERED "MEANS AND METHODS"

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Firestone COMPLETE AUTO CARE

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2019 JANUARY - SMALL ER
5845 NC HWY 42
GARNER, NC

PROFESSIONAL SEAL
NORTH CAROLINA
SEAL 032801
09/26/19
ACERTUS NORTH CAROLINA
CERTIFICATION NUMBER - P1514

ISSUE BLOCK

09/27/19	ADDENDUM #1
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PROPERTY NO.: 160017
6 DIGIT NO.: 903065
4 DIGIT NO.: 015P
AOR PROJECT NUMBER: 1955801
TO PERMIT: DATE: 07-28-19
TO BID: DATE: ##-##-##

SHEET TITLE:
ELECTRICAL SYMBOLS, NOTES AND SCHEDULES

SHEET NUMBER:
E3

Order Plans @