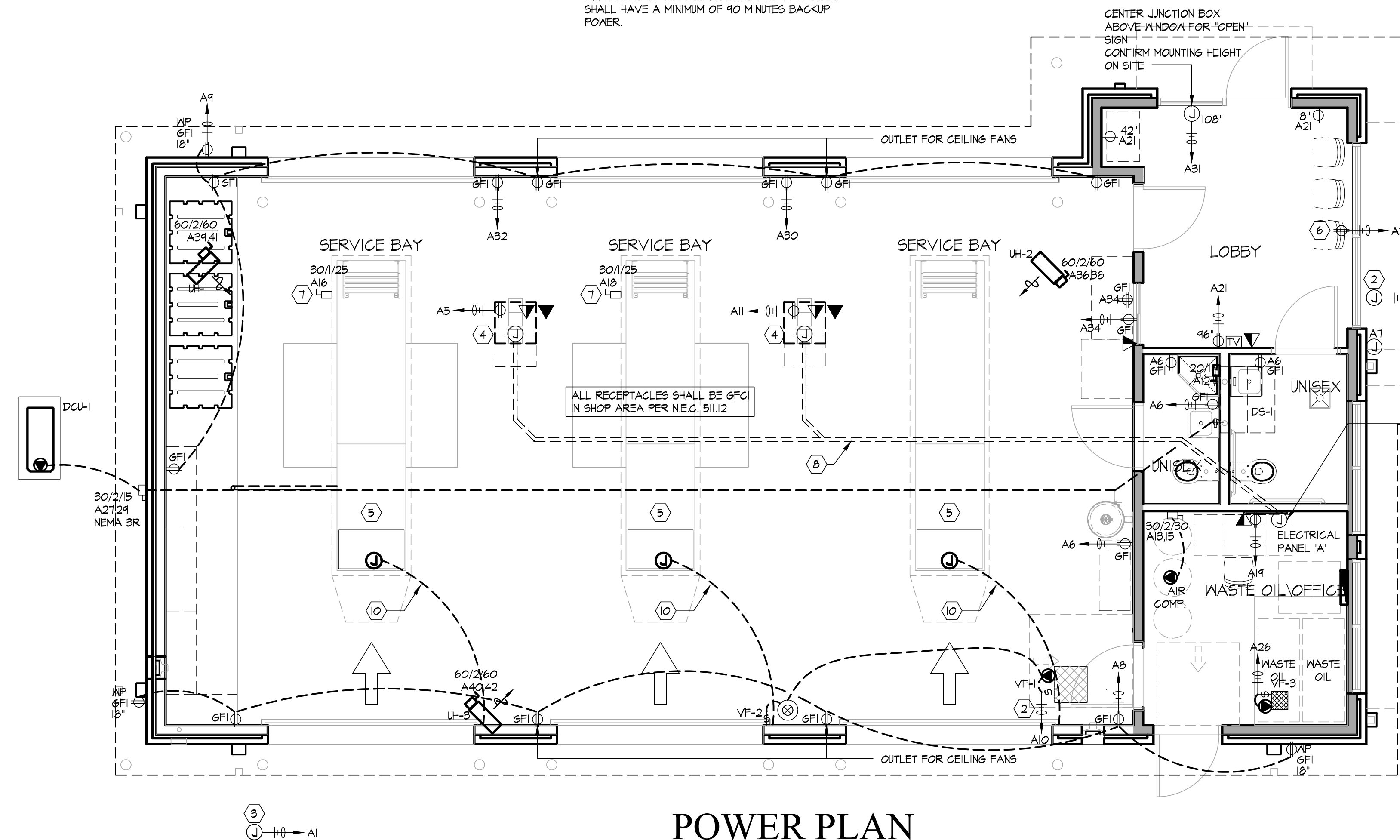


LIGHTING PLAN

ALL MEANS OF EGRESS LIGHTING AND EXIT SIGNS SHALL HAVE A MINIMUM OF 90 MINUTES BACKUP POWER.



POWER PLAN

ELECTRICAL NOTES FOR SERVICE BAYS

BUILDING IS CONSIDERED A "MINOR REPAIR GARAGE PER NEC ARTICLE 511.2 FLAMMABLE LIQUIDS HAVING A FLASH POINT BELOW 100°F SUCH AS GASOLINE, OR GASEOUS FUELS SUCH AS NATURAL GAS OR HYDROGEN, WILL NOT BE DISPENSED OR TRANSFERRED.

ACCORDING TO NEC ARTICLE 511.3(D) THE FOLLOWING LOCATIONS IN THE SERVICE AREAS SHALL BE CONSIDERED CLASS 1 DIVISION 2 LOCATIONS:

- FLOOR AREAS UP TO A LEVEL OF 18" ABOVE THE PITS & EXTENDING A DISTANCE 3' HORIZONTALLY FROM THE EDGE OF ANY PIT.
- PIT AREAS UP TO THE FLOOR LEVEL.

NOTE: CEILING AREAS ARE UNCLASSIFIED SINCE LIGHTER THAN AIR GASES (SUCH AS NATURAL GAS & HYDROGEN) WILL NOT BE TRANSFERRED.

ALL ELECTRICAL WORK IN THESE CLASSIFIED AREAS SHALL CONFORM TO ARTICLE 511.3 DIVISION 2 LOCATIONS. PROVIDE SEALS IN CONDUIT & CABLE SYSTEMS PER ARTICLE 501 IN CLASSIFIED AREAS. NOTE: OFFICE WASTE OIL AND RESTROOM AREAS ARE UNCLASSIFIED SINCE WALLS ARE USED TO EFFECTIVELY CUT OFF/SEPARATE THESE ROOMS FROM AREAS WHERE FLAMMABLE VAPORS ARE LIKELY TO BE RELEASED AND THESE AREAS ARE TYPICALLY OUTSIDE THE 3' HORIZONTAL DISTANCE FROM PIT EDGE.

NOTE:

ALL SWITCHES ARE MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE

KEYED NOTES:

- LUMINAIRE SHALL BE CONNECTED TO UNSWITCHED FOR NIGHT LIGHT OPERATION
- PROVIDE 2-CIRCUIT, 7-DAY ASTRONOMICAL DIGITAL PHOTOCELL (INTERMATIC ET8000 SERIES) FOR CONTROL OF VF-1/VF-2 AND MONUMENTAL SIGN. PROGRAM ONE CIRCUIT TO TURN OFF WHEN BUILDING IS OCCUPIED UNTIL ONE HOUR AFTER BUILDING IS UNOCCUPIED. PROGRAM OTHER CIRCUIT TO CONTROL MONUMENTAL SIGN PER OWNER'S DIRECTION.
- COORDINATE CONNECTION REQUIREMENTS FOR MONUMENT LIGHT AND LOCATION WITH EQUIPMENT PROVIDED. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- FOR COMPUTER PEDESTAL EQUIPMENT, CENTERED BETWEEN PITS. PROVIDE (2) FS BOXES ON 3/4" GRC CONDUITS STUBBED UP 6" ABOVE FLOOR. PROVIDE GFCI QUAD RECEPTACLE IN ONE BOX AND COVERPLATE WITH GROMMETTED OPENING FOR DATA WIRING IN THE OTHER BOX. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH OWNER AND WITH THE EQUIPMENT PROVIDED.
- PIT IS MECHANICALLY VENTILATED BY FAN VF-2 PER N.E.C. 511.3(C), RESULTING IN UNCLASSIFIED DESIGNATION.
- PROVIDE CEILING-MOUNTED SHOW WINDOW RECEPTACLE.
- EC SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND CONNECTIONS FOR THE LIFTS WITH LIFT INSTALLER.
- GC TO PROVIDE 2 UNDER SLAB CONDUITS FOR CAT6 LOW VOLTAGE CABLES AND FOR POWER. COORDINATE EXACT LOCATION OF JUNCTION BOXES WITH OWNER PRIOR TO ROUGH-IN.
- EC TO INSTALL 3/4" CONDUIT & PULL STRINGS TO EACH SIDE OF PITS FOR INSTALLATION OF PIT WELL LIGHTING. LOCATION & CONFIGURATION TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- EC TO INSTALL 3/4" CONDUIT & PULL STING FOR CAT6 CABLE FOR CAMERAS IN EACH PIT. CONFIRM LOCATION & CONFIGURATION PRIOR TO CONSTRUCTION.

2'-0" x 4'-0" TELEPHONE BOARD ANCHORED THROUGH TO STUD FRAMING. LOCATION AND MOUNTING HEIGHT TO BE CONFIRMED ON SITE. INSTALL CONDUIT IN WALL & TERMINATE IN NEAT WORKMAN-LIKE MANNER. SEE TELEPHONE RISER DIAGRAM E2.0 FOR DETAIL.

ELECTRICAL NOTES

1. THE CONTRACTOR INSTALL THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, APPLICABLE REGULATIONS AND ORDINANCES.

2. ALL WORK SHALL BE DONE IN A NEAT, PROFESSIONAL MANNER, BY COMPETENT, LICENSED TRADESMEN.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYING FOR ALL PERMITS AND OBTAINING ALL APPROVALS FROM THE AUTHORITY HAVING JURISDICTION.

4. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE SYSTEM, AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS AND ANY OTHER MEANS BY THE OWNER'S REPRESENTATIVE.

5. ALL MATERIALS USED UNDER THIS CONTRACT TO BE NEW, UL APPROVED AND IN GOOD WORKING ORDER.

6. ALL BUILDING WIRING REQUIRED FOR THIS PROJECT TO BE BASED ON SOFT DRAWN COPPER, CONDUCTIVITY OF NOT LESS THAN THAT OF 99% PURE COPPER, THN 600 VOLT INSULATION, #12 MINIMUM, #12 WIRE MAY BE SOFT AND COLOR CODED AS REQUIRED BY NATIONAL ELECTRICAL CODE. ALL WIRING #10 OR LARGER SHALL BE STRANDED TYPE WITH COLORED TAPE USED AT ALL BOXES TO IDENTIFY EACH PHASE AND CIRCUIT.

7. ALL CONDUIT INSTALLED INDOORS SHALL BE EMT, 1/2" MINIMUM UNLESS WITHIN CLASSIFIED LOCATIONS. ALL CONDUIT INSTALLED UNDERGROUND AND IN SLAB SHALL BE HOT DIPPED RIGID GALVANIZED STEEL. ALL CONDUIT INSTALLED TO EXPOSURE OUTDOORS SHALL BE UNDERGROUND AND IN SLAB SHALL BE HOT DIPPED RIGID GALVANIZED STEEL.

8. CONTRACTOR SHALL PROVIDE FEEDER SERVICE FROM THE TENANT'S POWER LOAD CENTER TO THE MAIN DISCONNECT, METER AND EXISTING WIREWAY OR WEATHERHEAD. VERIFY EXISTING CONDITIONS ON SITE. REFER TO ONE LINE DIAGRAM.

9. CONTRACTOR SHALL PROVIDE A NEAT TYPE WRITTEN SCHEDULE OF EQUIPMENT LOADED ON EACH CIRCUIT. ALL LIGHTS SHALL BE LOCALLY SWITCHED WITH WALL TOGGLE SWITCHES, UNLESS NOTED OTHERWISE.

10. PROVIDE COPPER EQUIPMENT GROUND WIRE TO ALL RECEPTACLES AND ALL DIRECT CONNECTED EQUIPMENT. PROVIDE AN EQUIPMENT GROUND WIRE IN ALL BRANCH CIRCUIT FEEDERS AND SUB-FEEDERS AS SHOWN, BUT IN NO CASE IT BE SMALLER THAN REQUIRED BY CODE.

11. COORDINATE ALL POWER, DATA AND TELEPHONE SERVICE REQUIREMENTS WITH THE LOCAL POWER AND TELEPHONE COMPANIES.

12. PROVIDE EMPTY CONDUIT WITH PULL WIRE FOR ALL TELEPHONE, COMPUTER AND DATA LINES AS INDICATED ON THE DRAWINGS. PROVIDE OUTLET BOXES FOR ALL TELEPHONE OUTLETS COMPLETE WITH CONDUIT AND PULL WIRES TO AN ACCESSIBLE LOCATION.

13. MOUNT ALL RECEPTACLES AND POWER OUTLETS AT 18" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED IN COUNTERS AND PONY WALLS.

14. MOUNT ALL TELEPHONE, DATA AND MODEM OUTLETS AT 18" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. PROVIDE CONDUIT AND WALL BOX WITH PULL WIRE AT AN ACCESSIBLE LOCATION ABOVE CEILINGS THAT ARE NOT ACCESSIBLE.

15. PROVIDE A GROUND FAULT PROTECTED, WEATHERPROOF, DUPLEX RECEPTACLE AS REQUIRED BY THE LOCAL, STATE OR NATIONAL CODES, ADJACENT TO EACH AIR COOLED CONDENSER AND/OR ROOF TOP UNIT.

16. ALL ELECTRICAL HOME RUNS SHALL BE INSTALLED AS TIGHT TO THE UNDERSIDE OF STRUCTURE AS POSSIBLE AND THROUGH THE STRUCTURAL ROOF BEAMS AND JOISTS.

17. ALL BORING, SLAB SAW CUTTING OR INTERRUPTION OF ELECTRICAL SERVICE TO THE BUILDING SHALL BE DONE AFTER HOURS, WITH PRIOR ARRANGEMENT OF THE LANDLORD.

18. CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO OR USE OUTLETS LOCATED IN THE TENANT SPACE. NO TAPPERING IS PERMITTED WITH ANY ADJACENT TENANT SPACES.

19. ALL BREAKERS IN PANEL BOARDS SHALL BE 20A SPARES, UNLESS NOTED OTHERWISE.

NOTE:

ALL EXTERIOR LIGHTS TO BE CONTROL BY TIME CLOCK & PHOTOCELL.

PROVIDE JUNCTION BOX AND LOCAL DISCONNECT SWITCH BEHIND FASCIA FOR BUILDING SIGN. FIELD COORDINATE FINAL SIGN LOCATION WITH ARCHITECTURAL ELEVATIONS & SIGN VENDOR. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO BUILDING SIGN. (TYPICAL 3 PLACES)

PROVIDE JUNCTION BOX AND LOCAL DISCONNECT UNDER SINK FOR INSTANTANEOUS WATER HEATER.

EQUIPMENT SCHEDULE

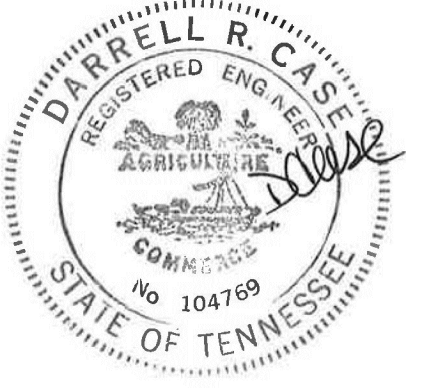
CALLOUT	SYMBOL	NEMA	VOLTS	AMPS	KVA	HP	CIRCUIT
AIR COMPRESSOR			208V 2P 2W	19.62	4.08	3 HP	A-13/5
DCU-1			208V 2P 2W	6.88	1.43		A-21/24
DS-1			208V 2P 2W	0.22	0.05		
EF-1			120V 1P 2W	0.13	0.02		A-4
EF-2			120V 1P 2W	0.13	0.02		A-4
LIFT			120V 1P 2W	20	2.4	1.5 HP	A-16
LIFT			120V 1P 2W	20	2.4	1.5 HP	A-18
MONUMENT SIGN			120V 1P 2W	10	1.2		A-1
WH-1/23			240V 2P 2W	42.0	10.0		
VF-1			120V 1P 2W	4.4	0.53	1/6 HP	A-10
VF-2			120V 1P 2W	0.51	0.06		A-10
WH-1			120V 1P 2W	13.75	1.65		A-12

ELECTRICAL LEGEND

	ELECTRICAL DUPLEX OUTLET HEIGHT AS NOTED
	ELECTRICAL DUPLEX OUTLET - GFI HEIGHT AS NOTED
	ELECTRICAL QUAD OUTLET - FLOOR LOCATION AS DIMENSIONED
	JUNCTION BOX HEIGHT AS NOTED
	THERMOSTAT HEIGHT AS NOTED
	DATA LINE/COMM OUTLET HEIGHT AS NOTED
	TELEPHONE OUTLET HEIGHT AS NOTED
	TELEVISION CABLE OUTLET HEIGHT AS NOTED
	ALARM PANEL HEIGHT AS NOTED
	CENTRAL LIGHTING CONTROL PANEL HEIGHT AS NOTED
	CEILING FAN LOCATION AS DIMENSIONED
	CEILING MOUNTED SMOKE DETECTOR HARD WIRED & INTERCONNECTED WITH BATTERY BACKUP
	CEILING MOUNTED LIGHT FIXTURE - FLUSH LOCATION AS DIMENSIONED
	SUSPENDED DECORATIVE LIGHT FIXTURE OWNER SUPPLIED - CONTRACTOR INSTALLED
	WALL MOUNTED DECORATIVE FIXTURE LOCATION AS DIMENSIONED
	CEILING MOUNTED WALL WASH - FLUSH LOCATION AS DIMENSIONED
	WALL MOUNTED LIGHT SWITCH HEIGHT AS NOTED
	WALL MOUNTED LIGHT DIMMER HEIGHT AS NOTED
	HOSE BIB HEIGHT AS NOTED
	GAS LINE SHUTOFF VALVE LOCATION TO BE COORDINATED ON SITE. HEIGHT AS NOTED
	SWITCH MTD, OCCUPANCY MOTION SENSOR WITH AUTOMATIC SHUTOFF TO TURN LIGHTS OFF WITHIN 30 MINUTES OF OCCUPANTS LEAVING SPACE.
	CEILING MTD, OCCUPANCY MOTION SENSOR WITH AUTOMATIC SHUTOFF TO TURN LIGHTS OFF WITHIN 30 MINUTES OF OCCUPANTS LEAVING SPACE.
	CIRCUIT NUMBER (2) #12 THIN-CU IN 1/2" CONDUIT (1) HOT, (1) NEUTRAL, (1) UNSWITCHED
	FUSED DISCONNECT SWITCH W/ 30A SIZE, 2POLE, 25A FUSES

GENERAL LIGHTING LEGEND

A	LED STRIPLIGHT FIXTURE LITHONIA LIGHTING; ZLIN - 48" 5000LM 40K LITHONIA LIGHTING; ZLIN - 96" 10000LM 40K
B	LED FLAT PANEL LIGHT EELP VLPF6-B-24-SOL-QT-40K
C	EMERGENCY EXIT LIGHT, INDOOR/OUTDOOR - 2.78W HUBBELL - SERIES P6 FINISH WHITE 120VAC WALL MOUNTED LIGHTING & BATTERY BACKUP. CONFIRM MOUNTING HEIGHT ON SITE.
D	BATHROOM EXHAUST - 30-110 CFM GREENHECK - SP-110
E	EXIT SIGN - 3.8W LITHONIA - EC66 LED M6 WITH BATTERY BACKUP. CONFIRM MOUNTING HEIGHT ON SITE. CENTER ABOVE OPENING U.N.O.
F	OUTDOOR LED WALLPACK MET SAFETY RATED - 4.78W - 3000K XLS LIGHTING: XLS-LMNC-1-N-B-T3-C MOUNTING HEIGHT 12'-0" A.F.F.
G	RECESSED LIGHT - 4" 56 LED DOWNLIGHT INTENSE LIGHTING - SS46EDR/IC430
H	WALL MOUNTED LED LINEAR LIGHT FIXTURE SPI LIGHTING SEM 12146 8FT-LI5M
J	LED LINEAR VAPOR LIGHT FIXTURE LITHONIA XVM L48 5000LM 40K
N	EELP VLPF6-B-24-SOL-QT-40K
X	LITHONIA: ELM2-LED-W
XR	LITHONIA: ELMRW REMOTE EMERGENCY EGRESS LIGHT FIXTURE



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ELECTRICAL PLANS