- 1. THESE ELECTRICAL GENERAL NOTES ARE APPLICABLE TO ALL SHEETS IN THIS PROJECT SET. ELECTRICAL WORK ON THESE DRAWINGS ARE GOING TO BE DONE BY THE OWNER'S PERSONNEL AND THE CONTRACTOR, REFER TO THE DRAWINGS FOR FURTHER INFORMATION.
- 2. THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE FOLLOWING CODES:
  - 2008 NATIONAL ELECTRICAL CODE
  - 2009 INTERNATIONAL BUILDING CODE 2009 INTERNATIONAL PLUMBING CODE
  - 2009 INTERNATIONAL MECHANICAL CODE 2009 INTERNATIONAL FIRE CODE
  - 2009 INTERNATIONAL FUEL CODE
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED AND INTERPRETED BY THE STATE OF TEXAS, CITY OF EL PASO AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS, CURRENT ADOPTED EDITIONS REGARDING ELECTRICAL SYSTEMS, FIRE PROTECTION AND ALARM SYSTEMS AND MECHANICAL SYSTEMS.
- 3. THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER ELECTRICAL SERVICES TO AREAS OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT. OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR Phasing of Construction that indicates areas of first priority during each phase AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- 4. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH CODES AND RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEERS FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 5. BIDDERS SHALL VISIT THE SITE AND SHALL BE RESPONSIBLE FOR HAVING ASCERTAINED PERTINENT LOCAL CONDITIONS SUCH AS LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE SITE. THE CHARACTER AND EXTENT OF THE WORK WITHIN THE BUILDING AND TO BECOME FAMILIAR WITH ALL OTHER WORK TO BE PERFORMED AT THIS TIME. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO DETERMINE ALL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- 6. BEFORE YOU DIG ALL EXISTING UTILITIES I.E. WATER, SEWER, GAS, FIRE LINE, ELECTRICITY, TELEPHONE, CABLE, IRRIGATION LINES, SHALL BE LOCATED AND CLEARLY MARKED IN ORDER TO AVOID UNNECESSARY SHUT DOWNS AND EMERGENCY.
- 7. EACH CONTRACTOR SHALL GIVE ALL REQUISITE NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES (INCLUDING UTILITY CONNECTIONS FEES, TAP FEES, ANY UTILITY EXTENSION FEES, IMPACT FEES, AND DEVELOPMENT FEES) NECESSARY FOR THE INSTALLATION OF WORK UNDER THESE NOTES. TWO (2) COPIES OF CERTIFICATES OF APPROVAL SHALL BE OBTAINED FROM ALL AUTHORITIES ISSUING SAME AND SHALL BE TURNED OVER TO OWNER, ARCHITECT, ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 8. REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER OR OWNER. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- 9. ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
- 10. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEERING OFFICES. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES, QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- WHERE STRUCTURE IS ALTERED OR DAMAGED DURING CONSTRUCTION, INSTALLATION AND REMOVAL OF EQUIPMENT OR FIXTURES, THE CONTRACTOR SHALL REPAIR THE AREA TO MATCH SURROUNDING AREA PER ARCHITECTURAL SPECIFICATIONS. CUTTING, TRENCHING, AND PENETRATIONS THROUGH FIRE WALL, CONCRETE AND OTHER STRUCTURES ARE A PART OF THIS PROJECT SCOPE AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL EXCAVATION AND BACKFILING REQUIRED FOR ELECTRICAL WORK IS ALSO INCLUDED AS PART OF THIS CONTRACT AND SHALL BE INCLUDED IN CONTRACTOR'S BID.
- 12. ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
- 13. ALL EQUIPMENT PARAMETERS SHOWN ARE FOR PERFORMANCE AT SITE ALTITUDE. SUPPLIERS SHALL SELECT AND DEMONSTRATE THAT THEIR EQUIPMENT MEETS THE DESIGN CONDITIONS AT
- 14. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL CONTRACTOR.
- 15. SUPPORT SYSTEM FOR EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER VIA ARCHITECT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO WIRE OR PERFORATED STRAP WILL BE PERMITTED FOR ANY
- 16. THE CONTRACTOR SHALL NOT SCALE THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND DO NOT COMPLETELY DEPICT ALL EXISTING CONDITIONS IN
- 17. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT, WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COSTS RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON OTHER DRAWINGS WILL BE INCURRED BY THE CONTRACTOR. SHOULD THE CONTRACTOR ENCOUNTER ANY DISCREPANCIES OR INCONSISTENCIES IN THE CONSTRUCTION DOCUMENTS, THE MORE STRINGENT SHALL GOVERN.
- 18. POSITIONING OF NEW LAY-IN FIXTURES TAKES PRECEDENCE OVER ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO INSTALLATION OF FIXTURES. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF LIGHTS WITH AIR DEVICES AND DUCTWORK, CEILING PANELS, JOIST SPACING AND ARCHITECTURAL REFLECTED CEILING PLAN (REF. MECHANICAL PLANS AND ARCHITECTURAL PLANS).
- 19. PROVIDE OWNER WITH THREE (3) COPIES OF ALL INSTALLATIONS INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS.
- 20. FOR OUTDOOR EQUIPMENT ON GRADE AND INDOOR FLOOR MOUNTED EQUIPMENT. THE CONTRACTOR SHALL CONSTRUCT LEVEL 3000 PSI CONCRETE(28 DAY COMPRESSIVE STRENGTH) SLABS WITH FINISHED EDGES, WIRE REINFORCED MINIMUM 6X6 W1.4/1.4 OR HEAVIER PER ASTM A185, MINIMUM 3 1/2" THICK, AND MINIMUM 6" LARGER ON ALL SIDES THAN THE EQUIPMENT BEING SUPPORTED. THE PAD SHALL BE HAVE 2 COATS OF EPOXY SEALANT TO SEAL THE PAD.
- 21. CONTRACTOR SHALL MAKE NO PENETRATIONS WHATSOEVER OF WALLS FORMING PART OF A STAIRWELL, AN EXIT PASSAGEWAY, OR OTHER TWO-HOUR RATED WALLS. ALL CONDUITS SHALL RUN PARALLEL TO WALLS.
- 22. CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY. REFER TO ARCHITECTURAL SPECIFICATIONS REGARDING PATCHING REQUIREMENTS.
- 23. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION TAGS FOR EQUIPMENT AND CONDUITS PER ASME 13.1 SCHEME OF IDENTIFICATION FOR PIPING. BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE, TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WARNING LEGEND PER ASME A13.1 SCHEME OF IDENTIFICATION FOR PIPING.
- 24. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALTERNATES AND ALLOWANCES FOR THIS PROJECT.
- 25. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND HAVE INSTALLED ANY ACCESS DOOR REQUIRED TO ACCESS ELECTRICAL EQUIPMENT AND/OR JUNCTION BOXES THAT REQUIRES ACCESS BEHIND GYPBOARD OR HARD CEILINGS AND IN WALLS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE GENERAL CONTRACTOR WITH THESE ACCESS DOORS FOR INSTALLATION IN THE CEILING OR WALL, ACCESS DOORS SHALL BE RATED FOR THE WALL, FLOOR, OR CEILING TYPE AND SHALL BE A MINIMUM SIZE OF 12"X12".

- DURING THE COURSE OF THE JOB, THE ENGINEER WILL MAKE SITE VISITS TO OBSERVE WORK IN PROGRESS AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR SHALL PREPARE A WRITTEN AND TYPED RESPONSE WITHIN SEVEN (7) CALENDAR DAYS OF HIS RECEIVING THE SITE VISIT REPORT. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THE FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER. THE GENERAL
- CONTRACTOR SHALL INCLUDE IN HIS RESPONSE TO THE FOLLOWING INFORMATION. DATE OF SITE VISIT BY THE ENGINEER,
- DATE OF RECEIPT OF THE SITE VISIT REPORT, NAME AND TITLE OF THE PREPARER OF THE RESPONSE, 4 AN ITEM NUMBER REFERENCED TO THE SITE REPORT.
- 5 A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM, 6 THE CONTRACTOR OR SUBCONTRACTOR AFFECTED,
- 7 THE PROPOSED COURSE OF ACTION, AND 8 AN EXPECTED TIME OF COMPLETION OF THE ACTION.
- AT THE COMPLETION OF THE JOB, THE ENGINEER WILL MAKE PUNCHLIST SITE VISITS TO OBSERVE COMPLETED WORK AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT PUNCHLIST REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR, UPON COMPLETION OF THE LISTED PUNCHLIST ITEMS, SHALL PREPARE A TYPEWRITTEN RESPONSE TO THE LIST INDICATING COMPLETION OF EACH ITEM. THE CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE RESOLUTION OF EACH ITEM. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER.
- 28. ALL ELECTRICAL CONDUIT AND PANEL OPENINGS SHALL BE CAPPED DURING DEMOLITION AND CONSTRUCTION.
- 29. SUBMITTAL REQUIREMENTS:
  - A. THE INTENT OF THIS SECTION IS TO GIVE GENERAL SUBMITTAL INFORMATION, REFER TO SPECIFIC SUBMITTAL INFORMATION IN THE SUBSEQUENT ELECTRICAL SECTIONS.
  - B. WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE ORDERS ARE PLACED. CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIALS SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAMES OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH OTHER SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION. MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATIONS OR IN SCHEDULES ON THE DRAWINGS.
  - C. REQUIREMENTS FOR EACH SUBMITTAL: BEAR A DATED STAMP OR SPECIFIC WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED AND APPROVED ALL SUBMITTAL PRIOR TO SUBMISSION TO ENGINEER, 2. HAVE ALL INFORMATION DELETED BY CONTRACTOR THAT PERTAINS TO THE MEANS AND METHODS OF CONSTRUCTION OR TO FABRICATION, ASSEMBLY, INSTALLATION, OR
  - SPECIFICALLY NOTED BY ENGINEER). 3. BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH SPECIFIC PIECE OF EQUIPMENT IS BEING SUBMITTED, BY USE OF A PERMANENT MARKER, STAMP, ETC., SO AS TO DISTINGUISH IT FROM OTHER PIECES OF EQUIPMENT THAT MAY OCCUR ON THE SAME PAGE.

ERECTION (APPROVAL BY ENGINEER SHALL NOT EXTEND TO THESE AREAS UNLESS

- 4. BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH AVAILABLE OPTIONS ARE BEING SUBMITTED THAT ARE ASSOCIATED WITH A PIECE OF EQUIPMENT, AND BE COMPLETE WITH RESPECT TO QUANTITIES, DIMENSIONS, SPECIFIC PERFORMANCE, MATERIALS, AND SIMILAR DATA TO ENABLE THE ENGINEER TO REVIEW THE PROPOSED FOUIPMENT.
- 5. OMISSION BY CONTRACTOR OF ANY OF THE ABOVE REQUIREMENTS OR SUBMITTALS WILL SUBJECT SUBMITTAL TO AUTOMATIC REJECTION WITHOUT REVIEW.
- 6. ANY SUBMITTALS RECEIVED BY ENGINEER THAT WERE NOT REQUESTED SHALL BE RETURNED WITHOUT REVIEW OF ANY KIND, SUBMITTALS SHALL INDICATE MINIMUM ACCESS AND SERVICE CLEARANCES IF REQUIRED BY THE SUBMITTED EQUIPMENT.
- D. INSTALLATION INSTRUCTIONS FOR CERTAIN PRODUCTS OR SYSTEMS AS IDENTIFIED IN SUBSEQUENT SPECIFICATIONS SECTIONS OR ON THE DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE SUBMITTAL. WHEN REQUIRED AS SUCH, THE INSTALLATION INSTRUCTIONS ARE CONSIDERED PART OF THE SUBMITTAL AND THEIR OMISSION MAY RESULT IN AUTOMATIC REJECTION OF THE SUBMITTAL. WHERE MORE THAN ONE IDENTICAL DEVICE ARE SCHEDULED, ONLY ONE SET OF INSTALLATION INSTRUCTIONS NEEDS TO BE SUBMITTED, E.G. IF SEVEN 200A 208V/3P PANELS ARE SCHEDULED, ONLY ONE 200A 208V/3P PANELS INSTALLATION INSTRUCTION NEEDS TO BE SUBMITTED. SIMILARLY, IF ONE SET OF installation instructions is identified by the Manufacturer and on the INSTRUCTIONS TO BE APPLICABLE TO MORE THAN ONE TYPE OR SIZE OF DEVICES, E.G. IF ONE SET OF PANEL INSTRUCTIONS IS GOOD FOR 100A, 150, 200A, PANELS, THEN ONLY ONE INSTRUCTION SET IS REQUIRED FOR THESE DEVICES.
- THIS ENGINEER WILL REVIEW THE SUBMITTALS FOR APPROVAL TWICE. ANY ADDITIONAL REVIEWS THAT ARE REQUIRED BY THE ENGINEER FOR WHATEVER REASON AFTER THE INITIAL TWO REVIEWS WILL RESULT IN ADDITIONAL COMPENSATION FOR THE ENGINEER'S TIME BY THE SUBMITTING CONTRACTOR AT THE ENGINEER'S RATE.
- 30. REQUIRED SHOP DRAWING SUBMITTALS:
  - A. LIGHTING FIXTURES (AS NOTED IN LIGHTING FIXTURE SCHEDULE) MAIN DISTRIBUTION PANEL INCLUDING CIRCUIT BREAKERS
  - C. PANELBOARDS INCLUDING CIRCUIT BREAKERS
  - RECEPTACIES AND COVER PLATES DISCONNECTS INCLUDING FUSES OR MAGNETIC STARTERS
  - GROUNDING G. WIRING
  - H. CONDUIT FIRE ALARM SYSTEM
  - ACCESS CONTROL AND SECURITY SYSTEM COMPONENTS K. DATA CABLING, TELEPHONE WIRING, AUDIO-VISUAL CABLING
  - L. JUNCTION BOXES AND ENCLOSURES

#### FI FCTRICAL: 31. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

- 32. PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE TO MATCH ADJACENT SURFACES.
- 33. RECEPTACLE AND DATA OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, ETC.. ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE LOCATION WITH COUNTERTOPS. CHALKBOARDS, TACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 34. ALL RECEPTACLES TO BE 20A SPECIFICATION GRADE, WORY. WALL PLATES TO MATCH. ISOLATED GROUND DUPLEX RECEPTACLES (IG) WILL BE ORANGE BODY AND FACE PLATE. ALL EXTERIOR RECEPTACLE SHALL WEATHERPROOF GFCI AND SHALL HAVE WHILE IN USE METAL. WEATHERPROOF COVERS.
- 35. COORDINATE WORK WITH ALL OTHER TRADES GIVING SPECIAL CONSIDERATION TO WORK DONE ABOVE CEILINGS, OUTLET LOCATIONS AT MILLWORK, AND SWITCH LOCATIONS IN REGARDS TO DOOR SWINGS.
- 36. WIRING SHALL BE #12 AWG, COPPER, IN MINIMUM 3/4" CONDUIT WITH CU. EGC., UNLESS NOTED OTHERWISE. 37. INSTALL WALL MOUNTED LIGHT FIXTURES, SWITCHES, OUTLETS, AND COMMUNICATION DEVICES
- IN STRICT COORDINATION WITH ARCHITECTURAL DETAILS, SECTIONS AND ELEVATIONS, AND ADA 38. FIRESTOPPING OF PENETRATIONS IN FIRE-RATED WALLS, FLOORS, ETC. SHALL BE DONE BY A
- FIRESTOPPING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS IN RATED WALL, FLOORS, ETC. NEATLY AND WITH A CUTTING TOOL, THE CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY, AND THE CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE FIRESTOPPING CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.
- SPECS: PROVIDE 3/4" C. W/ PULLCORD FROM COMMUNICATION OUTLETS TO 6" ABOVE LAY-IN

39. REFER TO SPECIFICATIONS FOR ALL COMMUNICATION SYSTEM REQUIREMENTS. (IN LIEU OF

- 40. SUPPORT ALL FIXTURES FROM STRUCTURE ABOVE CEILING TILES OR PLASTER. CEILING SHALL NOT SUPPORT FIXTURES.
- 41. FINISHED FLOOR ELEVATIONS FOR OUTLETS AND OTHER DEVICES ARE TO CENTER OF BOX. WHERE MILLWORK IS PRESENT. BOTTOM OF BOX SHALL BE MINIMUM OF 2" ABOVE BACK-SPLASH, REGARDLESS OF DIMENSION SHOWN ON DRAWINGS.
- 42. DOUBLE SET SCREW FITTINGS ARE ACCEPTABLE FOR STEEL CONDUIT AND COUPLINGS ONLY.
- 43. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH FOURMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT. TRASH, WATER (EXCEPT AS REQUIRED), VERMIN, ETC.

- 43. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO. ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT. TRASH, WATER (EXCEPT AS REQUIRED), VERMIN, ETC.
- 44. DEVICES THAT MIGHT CAUSE OR OPERATE WITH VIBRATION OR NOISE SHALL BE ISOLATED PER MANUFACTURER'S RECOMMENDATIONS AND/OR PER SPECIFICATIONS.
- 45. SWITCHBOARDS, PANEL BOARDS AND TRANSFORMERS SHALL BE CUTLER-HAMMER, SQUARE-D. OR SIMILAR APPROVED BY THE ENGINEER.
- 46. USE THE FOLLOWING WIRING COLOR CODE:
- A. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING:

1. BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS.

- 2. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE. 3. ORANGE, BROWN, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE.
- B. FOR WIRE SIZES 8 AWG AND LARGER, IDENTIFY WIRE WITH COLORED TAPE AT TERMINALS, SPLICES AND BOXES. COLORS ARE AS FOLLOWS:
- BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE. BROWN, ORANGE, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE.

COMcheck Software Version 3.9.2

Certificate

Section 2: Interior Lighting and Power Calculatio

COUNTY TAX & ACPLUTE OFFICES- 1STFLOOR (OSC

COLDITY TAX & AGFI-LIFE OFFICES-2ND FLOOR (Office

COUNTY TAX & AGFILUTE OFFICES- 1ST FLOOR ( Office 18292 to 8

Fixture ID: Description / Lamp / Waitage Por Lamp / Stallan

LED 1: G1: LED DOMALIGHT: LED A Lamb 11W:

LED 3: X1: EMERGENCY EXIT SIGN: LED MR

COUNTY TAX & ACTI-LIFE OFFICES- 2ND FLOOR (Office 5669 so ft

Section 4: Requirements Checklist

Controls, Switching, and Wiring

Section 3: Interior Lighting Fixture Schedule

Linear Fauresceri 1: A2: 2 LAMP 2X4TROFFER: 48" TB 32W: Electroni

Linear Francisceré 5: C2: 2 LANP 2X4 WRAP: 48' TB 32N': Electronic: Linear Flavrescent 6: D1: 1 LAND 4' VANSTY: 40' TB 32W: Electronic

Incomplement 1: H1: 156W ELEVATOR PAT LIGHT: Incombessed 1506

o Faurescent 3: AA: 4 LAMP 2XATROFFER: 48° TO 3XW: Electroni

Linear Faurrescent 4: B4: 4 LAMP 2XA SLERF MODULAR: 48" TB 37AV: Electronic:

or Fluorescent 7: F2: 2 LAMP 4" WALL MOUNT: 48" T8 32W: Electronic

Linear Fluorescent 1 copy 1: A2: 2 LAMP 2XATROFFER: 48" TO 32W: Electronic

Linear Franciscent 5 copy 1: C2: 2 LAMP 2X4 WRAP: 48" TB 32W: Electropic:

LED 2 copy 1: EM1: EMERGENCY EGRESS FIXTURE: LED MR GW: examplion:Exit Signs, Swinty or Emergency Lighting LED 3 copy 1: X1: EMERGENCY EXIT SIGN: LED MR GW:

Lightling Wattago:

I 1. Total proposed watts must be less than or equal to total allowed watts

Unwed Walls Proposed Walls Complex

15335

to have a separate switch for general area lighting.

El 4. Independent controls for each space (switch/occupancy sense

[] 5, Master switch at entry to hotel/motel guest room.

CI G. Individual dwelling units separately metered

Only one luminaire in space.

THE TOTAL GOING PLACES IN THE REPORT OF THE PROPERTY OF THE PR

I 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling

Drylight spaces enclosed by walks or ceiling height partitions and containing two or fewer light fixtures are not required

Cl 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Areas designated as security or emergency areas that must be continuously illuminated. Lighting in stairways or comidors that are elements of the means of egress.

An occupant-sensing device controls the area.

The area is a comidor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft.

[3] 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair

CI 9. Automatic lighting shutoff control in buildings larger than 5,000 so.ft.

C) 10. Photocellastronomical time switch on exterior lights.

Lighting intended for 24 hour use

Section 5: Compliance Statement

Haley A. Rieck, PE

ELIC PROJECT #1200056-A

Perma Tris

Project Notes:

El 7. Medical task lighting or artificiatory display lighting claimed to be exempt from compliance has a control device

independent of the control of the nonexempt lighting.

D B. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lumina.

Steeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

nilly of other lamps, or switching each luminaire or each lamp

2 8 10 Exempt

1 5 5 Exempt

2/14/2014

Linear Fluxrescent 6 copy 1; D1; 1 LAMP 4"VANTY: 48" T8 32N; Electronic.

2009 IECC

Construction Site:

Project Type: Alteration

Section 1: Project Information

Project Title: Ascarate Annex - Tax-April ife Office

**Interior Lighting Compliance** 

BRANCH CIRCUIT CONDUCTORS: INSTALL THREE OR FOUR WIRE HOMERUNS WITH EACH PHASE UNIQUELY COLOR CODED.

NEUTRAL CONDUCTORS: WHITE FOR 208/120V CIRCUITS. GREY FOR 480/277V CIRCUITS.

- FEEDER CIRCUIT CONDUCTORS: UNIQUELY COLOR CODE EACH PHASE. GROUND CONDUCTORS:
- 1. FOR 6 AWG AND SMALLER: GREEN. 2. FOR 4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE
- POINTS INCLUDING JUNCTION BOXES.
- 47. THE ALARM SYSTEMS SHOWN ON THESE PLANS ARE FOR COORDINATION AND BIDDING ONLY. THE INFORMATION SHOWN DOES NOT NECESSARILY REPRESENT THE REQUIRED FINAL ALARM SYSTEM LAYOUT REQUIREMENTS. THE FINAL ALARM SYSTEM LAYOUT IS TO BE SUBMITTED FOR PERMIT PURPOSES, AT A LATER DATE BY LICENSED ALARM SYSTEM INSTALLER. THE ALARM SYSTEM LAYOUT SHOWN IS TO BE VERIFIED WITH THE LICENSED INSTALLER PRIOR TO INSTALLATION OF CONDUIT AND DEVICE BOXES. THE FINAL LOCATION OF ALL DETECTORS (EXISTING AND NEW), AUDIO AND VISUAL ALARMS, AND ANY OTHER ALARM EQUIPMENT IS THE RESPONSIBILITY OF THE LICENSED ALARM SYSTEM INSTALLER. EQUIPMENT SPECIFICATION -TYPE, SIZE, RATING, AND ANY OTHER REQUIRED INFORMATION FOR THE REVIEW OF THE ALARM PLANS FOR PERMIT PURPOSES IS TO BE SUPPLIED BY THE LICENSED ALARM INSTALLER ON THE FINAL ALARM SYSTEM PLANS.

#### SYMBOL LEGEND DESCRIPTION SYMBOL MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL EQUIPMENT SCHEDULE (°P ABOVE FINISH FLOOR DENOTES RED DEVICE FOR EMERGENCY PURPOSES. El.1 EMERGENCY E CR EX EXISTING UNILESS NOTED OTHERWISE ISOLATED GROUND GROUND FAULT CIRCUIT INTERRUPTER SURFACE CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE Bracket light fixture and outlet. Type as indicated in fixture schedule. ROUND RECESSED DOWNLIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE. SCHARE DOWNLIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE. LAY-IN 1X4 FLUORESCENT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE LAY-IN 2X4 FLUORESCENT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE. LIGHTING FIXTURE INDICATED WITH CROSS SHADING IS CONNECTED TO ENERGENCY POWER SOURCE, OR HAS INTEGRAL BATTERY PACK 1100 LUMEN 1881. CELLING MOUNTED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE JUNCTION BOX INSTALLED ABOVE THE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 6"-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH LIGHT POLE AND NUMBER OF LUMINARES SHOWN. TYPE AS INDICATED IN FIXTURE SCHEDULE SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44° UNLESS OTHERWISE INDICATED THREE WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED DIMMER SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED. JUNCTION BOX. 0 DUPLEX CONVENIENCE OUTLET. UP 18" OR AS INDICATED. CROUND QUADRUPLEX OUTLET. UP 18" TO CENTER OF RECEPTACLE OR AS INDICATED. DUPLEX FLUSH FLOOR QUILET OR AS NOTED. VERFY EXACT LOCATION IN FIELD WITH ARCHITECT. Flush floor 2-gang outlet box with receptacle for power and cover FOR TELEPHONE. COMBINATION VOICE/DATA OUTLET FLUSH IN WALL, 4 11/16" SQUARE BOX, 2-1/8" DEEP, ONE DEVICE COVER, UP 18" A.F.F., WITH 2 PORTS. COMBINATION VOICE/DATA OUTLET FLUSH IN WALL, 4 11/16" SQUARE BOX. 4P 2-1/8" DEEP. ONE DEVICE COVER, UP 18" A.F.F., WITH 4 PORTS. Thermostat up 44° unless otherwise indicated. 1 4"x8"x3/4" PLYWOOD TELEPHONE BACKBOARD WITH #6 GROUND. transforwer as noted. -SPECIAL CABINET AS NOTED. PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS. MOTOR CONTROLLER INTEGRAL WITH EQUIPMENT. MOTOR CONTROLLER, PROVIDED AND INSTALLED UNDER DIV. 16. SIZE AND POLES FOR MOTOR SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATING u REQUIRED. TO BE MOUNTED IN NEWA 3R IF INSTALLED OUTDOORS. -EUG-ELECTRICAL UNDERGROUND CIRCUIT, 2°-0° MINIMUM BELOW GRADE. TELEPHONE UNDERGROUND CIRCUIT, 2'-0" MINIMUM BELOW GRADE. PRIMARY SERVICE ELECTRICAL UNDERGROUND CIRCUIT, 2'-0" MINIMUM BELOW Branch circuit in Walls or Ceiling or Exposed on Existing Civil Walls. HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED. TIC MARKS REPRESENT NEUTRAL, HOT, SWITCH LEG, AND GROUND CONDUCTORS RESPECTIVELY. CONDUITS WITH NO TIC MARKS SHALL BE: "A HOT AND NEUTRAL", "A HOT AND SWITCH LEG", "A NEUTRAL AND SWITCH LEG", OR "HOT, NEUTRAL, AND GROUND OR ISOLATED GROUND", AS APPLICABLE. FACP FIRE ALARM CONTROL PANEL ANN FIRE ALARM ANNUNCIATOR

## IT'S THE LAW

NOTE: SOME SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT.

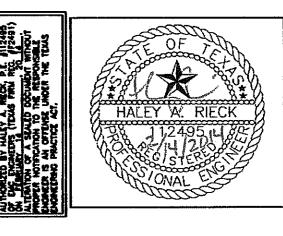
AND IT'S FREE - CALL BEFORE YOU DIG 1-800-344-8377 CALL TWO WORKING DAYS BEFORE YOU DIG IN TEXAS (1-800-DIG-TESS)

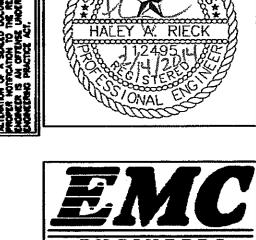
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GRATIS PARA USTED - LLAME ANTES DE ESCARVAR

LLAME 2 DIAS DE TRABAJO ANTES DE ESCARVAR EN TEXAS (1-800-DIG-TESS)







2211 E. MISSOURI AVE. SUITE W-107 EL PASO. TEXAS, 79903 PH: 915-781-2030 FAX: 915-781-2055 TEXAS FIRM REG. #F2491

EMC PROJECT #1308056-A

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ection 2: Exterior Lighting Ar	ea/Surface Power	Calculat	ion			
A Exterior Area/Surface	B Committy	C Allowed Walks / Unit			E ABowed Walts B x C)	F Proposed Whits
LIAIN ENTRY (Calry carepy)	400 ft2	0.4	Yes		160	87
THREE SECONDARY ENTRIES (Other door (main entry))	not 5 ft of door width	20	Yes	•	100	30
BLALDING PERIMETER (IBumineled length of well or staface)	facade540 ft	5	No	:	2700	576
tal Alomed Walts = ish Named Supplemental Walts" = Vallege tradeolis are only allowed between tra A supplemental allowance equal to 1300 walts ection 3: Exterior Lighting Fi	may be applied lowerd com	pleance of both	। गदल-रेट		2960 1300 nd tradabk	e erensissel
ceeding at my control miding in			_	c	_	
A			В		D	E
A ziure ID : Description / Lamp / Watage Per I	.emp / Ballast		amps/		Fixture	(CXD)
			amps/	#di	Fixture	
ANN ENTRY (Entry caregy 400 ft2): Tradable t	Notage		amps/	# of Fixture:	Fixino Walt.	(C X D)
AIN ENTRY (Entry carapy 400 ft2): Tradable 1 LED 1: V1: COMPACT WALLPACK: LED L	Notage		amps/	#di	Fixture	
AM ENTRY (Ersty caregy 400 ftz): Tradable t LED 1: V1: COMPACT WALLPACK: LED L LED 2: W1: WALLPACK: Other:	Wallage Inser 20M:		amps/	# of Fixture:	Fixture : Watt.	(C X D)
AM ENTRY (Erby Carapy 400 ftz): Tradable 1 LED 1: V1: COMPACT WALLPACK: LED L LED 2: W1: WALLPACK: Other: LED 3: EMS: EMERGENCY EGRESS: LED	Wallage Innar 20W; Linear 10W;	1 1 1	amps/ xture	# of Fixture: 1 1 2	Fixture Walk. 19 48 10	(C X O) 19 48
AM ENTRY (Enby carupy 400 ft2): Tradable 1 LED 1: W1: COMPACT WALLPACK: LED LED 2: W1: WALLPACK: Other: LED 3: EMS: EMERGENCY EGRESS: LED FREE SECONDARY ENTRIES (Other door (in	Wallage mear 20W; Linear 10W; ol main entry) 5 fl of door wi	1 1 1	amps/ xture	# of Fixture: 1 1 2	Fixture Walt. 19 48	(C X O) 19 48
AM ENTRY (Erby Caresy 400 ftz): Tradame t LED 1: V1: COMPACT WALLPACK: LED L LED 2: W1: WALLPACK: Other: LED 3: EMS: EMERGENCY EGRESS: LED	Mallage maar 20W; I Linear 10W; of main entry) 5 ff of door wk I Linear 10W;	Fit 1 1 Eth): Tradable 1	amps/ dure	# of Fixture: 1 1 2 9 3	Fixture : Walt. 19 48 10	(C X D)  19 48 20

COMcheck Software Version 3.9.2

Certificate

2009 IECC

Project Type: Afteration

Section 1: Project Information

Project Title: Ascarate Annex - Tax-AgriLife Offices

Exterior Lighting Compliance

Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all radable areas/surfaces, total proposed watts must be less than or equal to total allowed watts Controls, Switching, and Wiring: 🖸 2. All exemption claims are associated with futures that have a control device independent of the control of the nonexempt

[] 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an El 4. Lichling designated for clusk-to-dawn operation is controlled by an astronomical time switch or photosens ELIS. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least

#### Lighting that has been claimed as exempt and is identified as such in Section 3 table above. Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation. Emergency lighting that is automatically off during normal building operation.

ELSC PROJECT #1308056-4

Section 4: Requirements Checklist

Exterior Lighting Efficacy: II 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt

#### Section 5: Compliance Statement

2/14/2014

**ISSUED FOR** CONSTRUCTION

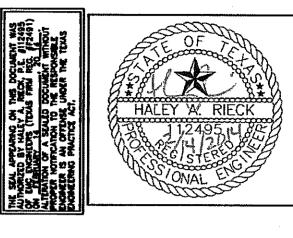
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SHEET:

GENERAL NOTES AND LEGEND

- 1 RENOVATION WORK RELATED TO THE NEW 480Y/277V SERVICE AND RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 THIS PROJECT DOES NOT INCLUDE CHANGES TO THE EXISTING SITE AND PARKING LOT LIGHTING. ALL EXTERIOR POLE MOUNTED FIXTURES TO REMAIN. THE DARK SKIES CALCULATION ON THIS SHEET ONLY INCLUDES THE BUILDING AREA, NOT THE PARKING LOT.







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EL PASO, TEXAS. 79903
PH: 915-781-2030
FAX: 915-781-2055
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EMC PROJECT #1308056-A

THE ASCARATE ANNEX
- PASO COUNTY
DR., EL PASO, TEXAS 79905 REMODELING O FOR THE



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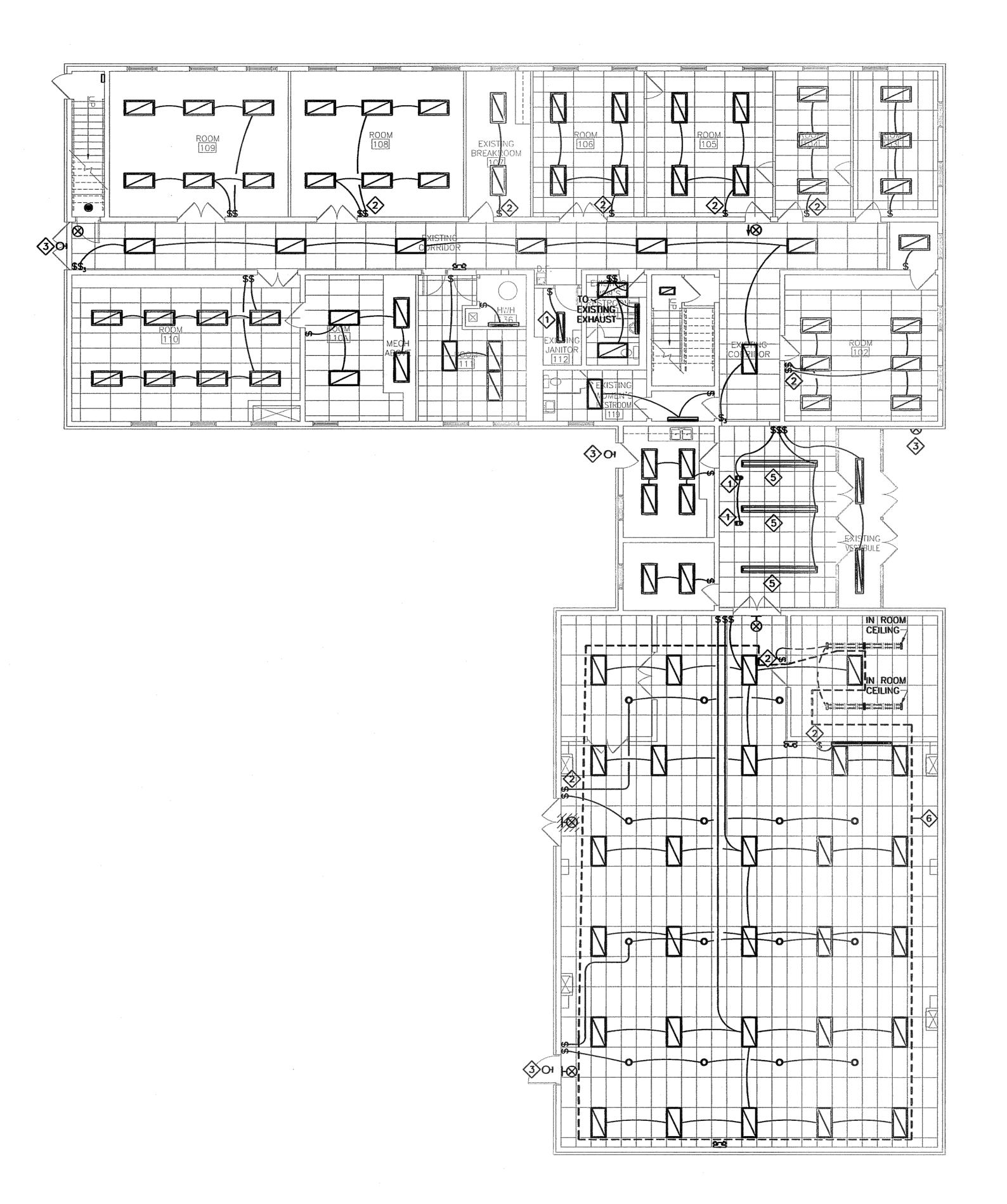
E2.0

ELECTRICAL SITE PLAN

ELECTRICAL KEYED NOTES: (1) 1) EXISTING STREET LIGHT TO REMAIN.

- 2 EXISTING SITE/PARKING LOT LIGHT TO REMAIN.
- 3 SERVICE ENTRANCE LOCATION FOR NEW 480Y/277V, 3 PHASE SERVICE BY ELECTRICAL CONTRACTOR. COORDINATE WITH EL PASO ELECTRIC (EPE CO).
- 4 EL PASO ELECTRIC POLE WITH NEW OVERHEAD SERVICE.
- (5) COEP CREWS TO PROVIDE AND INSTALL NEW 4" CONDUIT IN UNDERGROUND TRENCH FROM EXISTING EL PASO ELECTRIC POLE AS SHOWN TO BUILDING, RISE UP BUILDING, AND ENTER BUILDING ON SECOND FLOOR LEVEL TO TERMINATE AT SECOND FLOOR IT CLOSET PER AT&T REQUIREMENTS. COEP TO COORDINATE NEW AT&T SERVICE AND ENSURE ALL STANDARDS ARE MET.
- (6) NEW LIGHT FIXTURE TYPE "U1" TO ILLUMINATE FLAG AT FLAGPOLE. REFER TO FIXTURE SCHEDULE ON SHEET E5.0. CONTROL LIGHT WITH PHOTOCELL. PER EL PASO DARK SKIES ORDINANCE 18.18.320, "ILLUMINATION OF FLAGS WITH SPOT LIGHTS OR FLOOD LAMPS IS EXEMPT FROM ALL REQUIREMENTS."

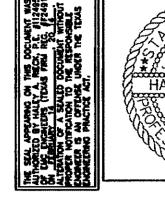
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CUTOFF	LIGH	T CA	<b>LCUL</b>			m marker State of the	THE PERSON NAMED IN	42 M 46%	et all			
						LIGHT FIXTURES	<del></del>	~				7
TYPE	OTY	LAME	The second second second		LAMP TYPE	TOTAL LUMENS						1
EMS	5	1	N	1,000	LED	5,000			ess fixture			]
V1 W1	13	1 1	N N	1,017	19W LED	1,017			CT LED WALLPACK			4
NOTE: N/				3,073	48₩ LED	39,949	LOUIDOOK	GENERA	AL PURPOSE LED WA	LLPACK		ا
-												
TOTAL NE										45,966	LUMENS	
TOTAL EX										+ 0	LUMENS	
TOTAL CA	MOPT L	opa i irac								45.056	LUMENS	
										45,966	LUMENS	
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				ORDINANCE)						E-4		
				+ UNSHIELDED) PER A		KY ORDINANCE)				1,000,000	LUMENS	
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en	E TOTAL	ACDE	\$-	O GE	5 ACRES	LOT SIZE 37,729	-			625,597	LUMENS	
-	JTURE P				D ACRES	31,123	30 F					
Ì		NG PAI	-		1 ACRES	10,478	SO FT					
				50250000	5 ACRES		- "					
ELDED	AND/(	)R U	P LIG	HTING CALCULAT	TON			~~~~~~				
TYPE	OTY	LAMP	N/E	LUMENS/LAMP	PERCENTAGE	LIGHT FIXTURES LAMP TYPE	TAYAR REE	SAFAIC	DESCRIPTION		····	
	4	P'A-robs:	"/"	UP LIGHT PORTION	OF UP LIGHT	CMM. BILC	10IAL LU	SEC 143	DESCRIPTION			
EMS	5	1	N	1000	0.000%	LED	1 0		EMERGENCY EGRESS	FIXTURE		
V1	1	1	N	1017	0.000%	19W LED	0		EXTERIOR COMPACT			
(41	13	1	N	3073	0.000%	48W LED	0		OUTDOOR GEMERAL	PURPOSE LED WALL	LPACK	
TOTAL NE	w line	a OUTP	157							0	LUMENS	
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TOTAL SIT								45.966		GGJUB F	TOMENS	
TOTAL SIT						-₽-		0	_			
TOTAL SIT	E LUMEA	IS (FUI	T COLO	FF + UNSHIELDED)			***************************************	45,966	1	45,986	LUMENS	
				-FULL CUTOPP + UNS						579,631	<b>—</b>	

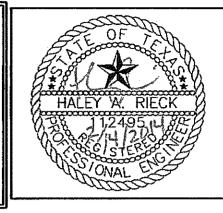




- 1 ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 UNLESS NOTED OTHERWISE, REMOVE ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL PLANS FOR CEILING RENOVATIONS. SALVAGE FIXTURES IN GOOD CONDITION FOR RE-USE IN NEW LIGHTING PLAN ON E5.0.







### ELECTRICAL DEMOLITION KEYED NOTES: �

- (1) EXISTING LIGHTING FIXTURE TO REMAIN.
- DEMO SWITCH IN THIS LOCATION WHERE DOOR WILL BE RELOCATED.
  REFER TO REMODEL PLANS FOR NEW ROOM SWITCHING.
- REMOVE EXISTING EXTERIOR FIXTURE AND PREPARE FOR NEW FIXTURE TO BE INSTALLED IN THIS LOCATION. REUSE EXISTING BRANCH CIRCUIT FOR NEW FIXTURE IF IT IS IN GOOD CONDITION.
- 4 EXISTING LIGHT SWITCH LABELED "OUTSIDE LIGHTS" TO REMAIN.
- 5 ADJUST AND RELOCATE EXISTING LINEAR PENDANT FIXTURES AS NEEDED TO ACCOMMODATE NEW LOBBY CONFIGURATION. REFER TO E5.0.
- EXISTING 4-LAMP 2X4 TROFFERS AND DOWNLIGHTS TO REMAIN IN EXISTING SUSPENDED CEILING. CLEAN AND RELAMP FIXTURES AS NEEDED.



TEXAS FIRM REG. #F2491 EMC PROJECT #1308056-A

ASO COUNTY
EL PASO, TEXAS 79905 REMODE FOF

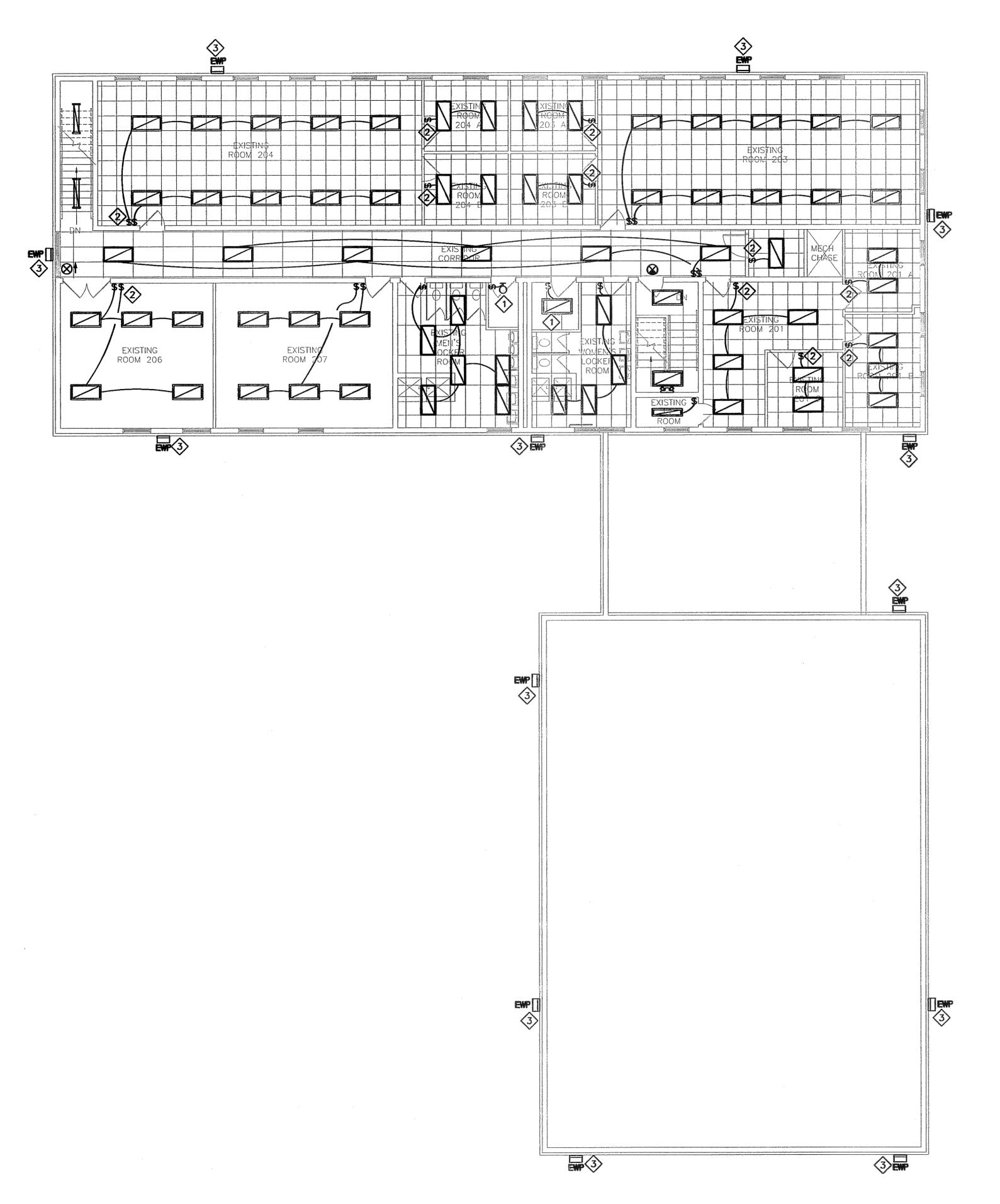


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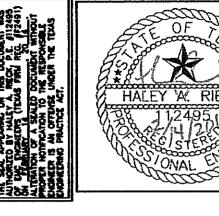
**DEMOLITION LIGHTING** PLAN FIRST FLOOR





- 1 ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO (COEP)
- 2 UNLESS NOTED OTHERWISE, REMOVE ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL PLANS FOR CEILING RENOVATIONS. SALVAGE FIXTURES IN GOOD CONDITION FOR RE-USE IN NEW LIGHTING PLAN ON E6.O.





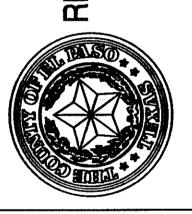
### ELECTRICAL DEMOLITION KEYED NOTES: **(\*)**

- EXISTING LIGHTING FIXTURE TO REMAIN.
- DEMO SWITCH IN THIS LOCATION WHERE DOOR WILL BE RELOCATED OR WALL DEMOLISHED. REFER TO REMODEL PLANS FOR NEW ROOM SWITCHING.
- REMOVE EXISTING EXTERIOR WALLPACK AND PREPARE FOR NEW WALLPACK TO BE INSTALLED IN THIS LOCATION. REUSE EXISTING BRANCH CIRCUIT FOR NEW EXTERIOR WALLPACK LIGHTING IF IT IS IN GOOD CONDITION.



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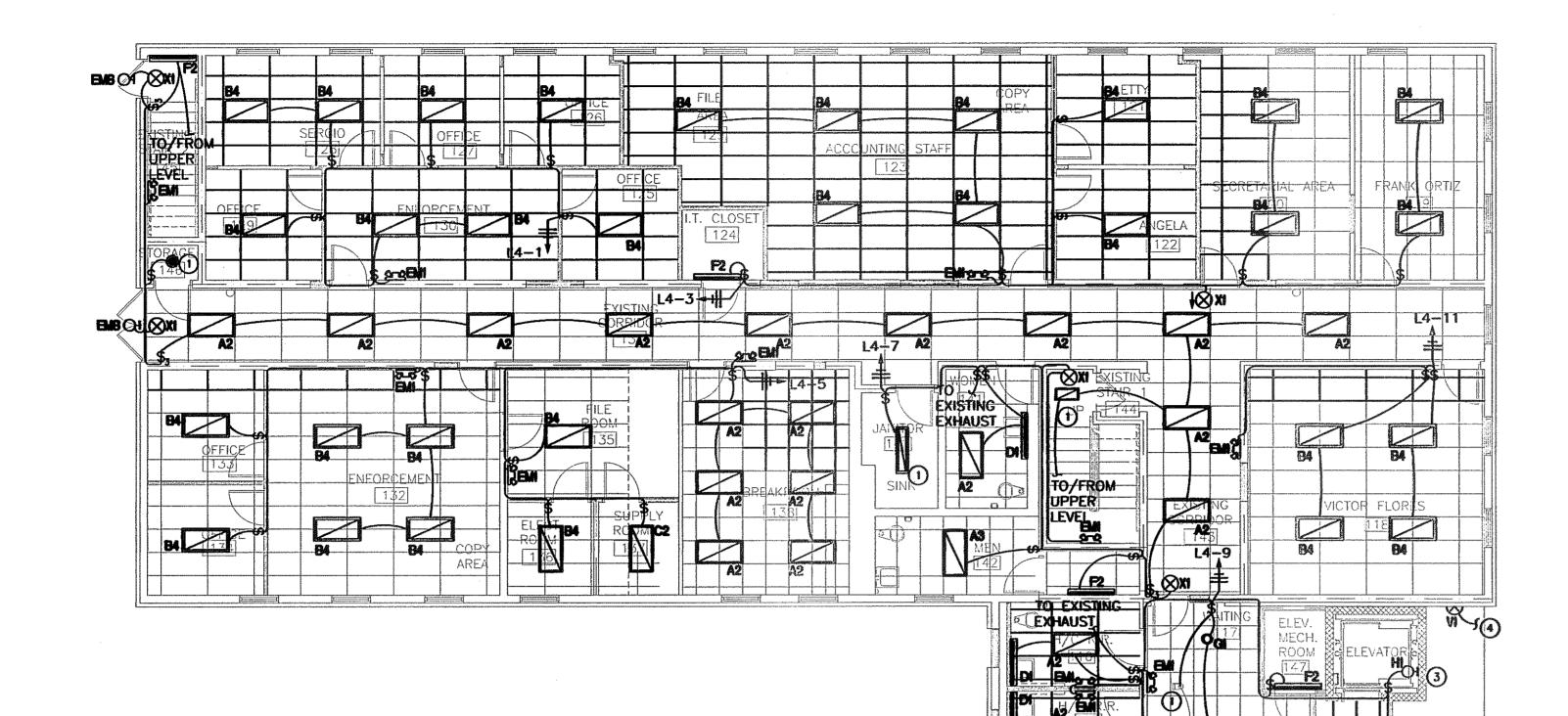
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DEMOLITION LIGHTING PLAN SECOND FLOOR



		LIGHTING F	XTURE	SCHEDULE		
ENE	RAL LIGHTING					
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION
A2	LITHONIA 2GTB 2 32 A12125 MVOLT GEB10IS	(2) 32W T8	MVOLT	SINGLE,	RECESSED,	2'X4' LENSED TROFFER FOR LAY-IN CEILING
				ELECTRONIC	LAY-IN CEILING	
A3	LITHONIA 2GTB 3 32 A12 MVOLT GEB10IS	(3) 32W T8	MVOLT	SINGLE,	RECESSED.	2"X4" LENSED TROFFER FOR LAY-IN CEILING
				ELECTRONIC	LAY-IN CEILING	
A4	LITHONIA 2GT8 4 32 A12 MVOLT GEB10IS	(4) 32W TB	MVOLT	SINGLE.	RECESSED.	2'X4' LENSED TROFFER FOR LAY-IN CEILING,
				ELECTRONIC	LAY-IN CEILING	MATCH EXISTING FIXTURES
B4	LITHONIA 2M 4 32 A12125 MVOLT GEB10IS	(4) 32W TB	MVOLT	SINGLE,	SURFACE,	2'X4' MODULAR COMMERCIAL SURFACE MOUNT
			:	ELECTRONIC	CEILING	FIXTURE WITH HINGED LENS
C2	LITHONIA SB2 32 MVOLT GEB10IS	(2) 32W TB	MVOLT	SINGLE,	SUSPENDED,	2'X4" SQUARE BASKET-WRAP SURFACE MOUNT
				ELECTRONIC	HARD CEILING	FIXTURE WITH HINGED LENS
D1	LITHONIA 11874 MVOLT GEB10IS	(1) 32W T8	MVOLT	SINGLE,	SURFACE, WALL	CONTEMPORARY SQUARE VANITY LIGHT
		1		ELECTRONIC	ABOVE MIRROR	
F2	LITHONIA WC 2 32 MVOLT GEB10IS	(2) 32W T8	MVOLT	SINGLE,	SURFACE, WALL	4' WALL MOUNTED FIXTURE
				ELECTRONIC	UP 8' AFF	
G1	LITHONIA REALG DG (FBA) 1000L 35K .90SC PFWW L7XR	10 W LED-A19 BASE	120V	N/A	RECESSED.	NEW LED DOWNLIGHT OR RELAMP EXISTING
		(100W EQUAL)		,	LAY-IN CEILING	DOWNLIGHT WITH COMPATIBLE LED BULBS
H1	LITHONIA OVT 150	(1) 150W	120V	N/A	ELEVATOR PIT	HEAVY DUTY LOCATION LIGHT WITH GUARD,
		INCANDESCENT	1	·		COORDINATE WITH ELEVATOR REQUIREMENTS
EVTEL	NOR LIGHTING					PM
				T		
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION
U1	LITHONIA OLBF 8 50K DDB	11W LED	MVOLT	N/A	GRADE LEVEL	LED FLOODLIGHT TO LIGHT FLAG WITH
		5000K				5x4 FL009 OPTICS
V١	LITHONIA TWS LED 1 50K PE	19W LED	120V	N/A	SURFACE, WALL,	EXTERIOR COMPACT WALLPACK, DARK SKIES
		5000K			SEE LTG PLAN	COMPLIANT, WITH INTEGRAL PHOTOCELL
W1	LITHONIA OLW 31	48W LED	MVOLT	N/A	SURFACE, WALL,	EXTERIOR WALLPACK, DARK SKIES COMPLIANT,
		5000K			SEE LTG PLAN	WITH INTEGRAL PHOTOCELL
EMER	GENCY LIGHTING					
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION
	LITHONIA EDG (CBA) R EL	5W LED	MVOLT	N/A	SURFACE, WALL	EMERGENCY EXIT SIGN WITH WHITE FACE AND RED
•••	I was to see the second of second or			.,,	OR CEILING	LETTERS, DIRECTIONAL ARROWS AS REQ'D
EM1	LITHONIA ELM2	(2) 5.4W KRYPTON	MVOLT	N/A	SURFACE, WALL	INTERIOR EMERGENCY EGRESS FIXTURE
				.,	OR CEILING	WITH TWO ADJUSTABLE LAMP HEADS
EMS	EMERGENCY AND EXIT LIGHTING PRODUCTS	(2) 6W XENON	MVOLT	N/A	WALL, CENTERED	EXTERIOR RATED EMERGENCY EGRESS FIXTURE
Furn	DEM (CBA) PCLW	AND LED		.,,	ABOVE DOOR	WITH INTEGRAL PHOTOCELL
NOTES	INCH TOWN CENT	7410 240	I	L	TOOTE COOK	I ELICATE TRANSMICTOR TO THE PROPERTY OF THE P

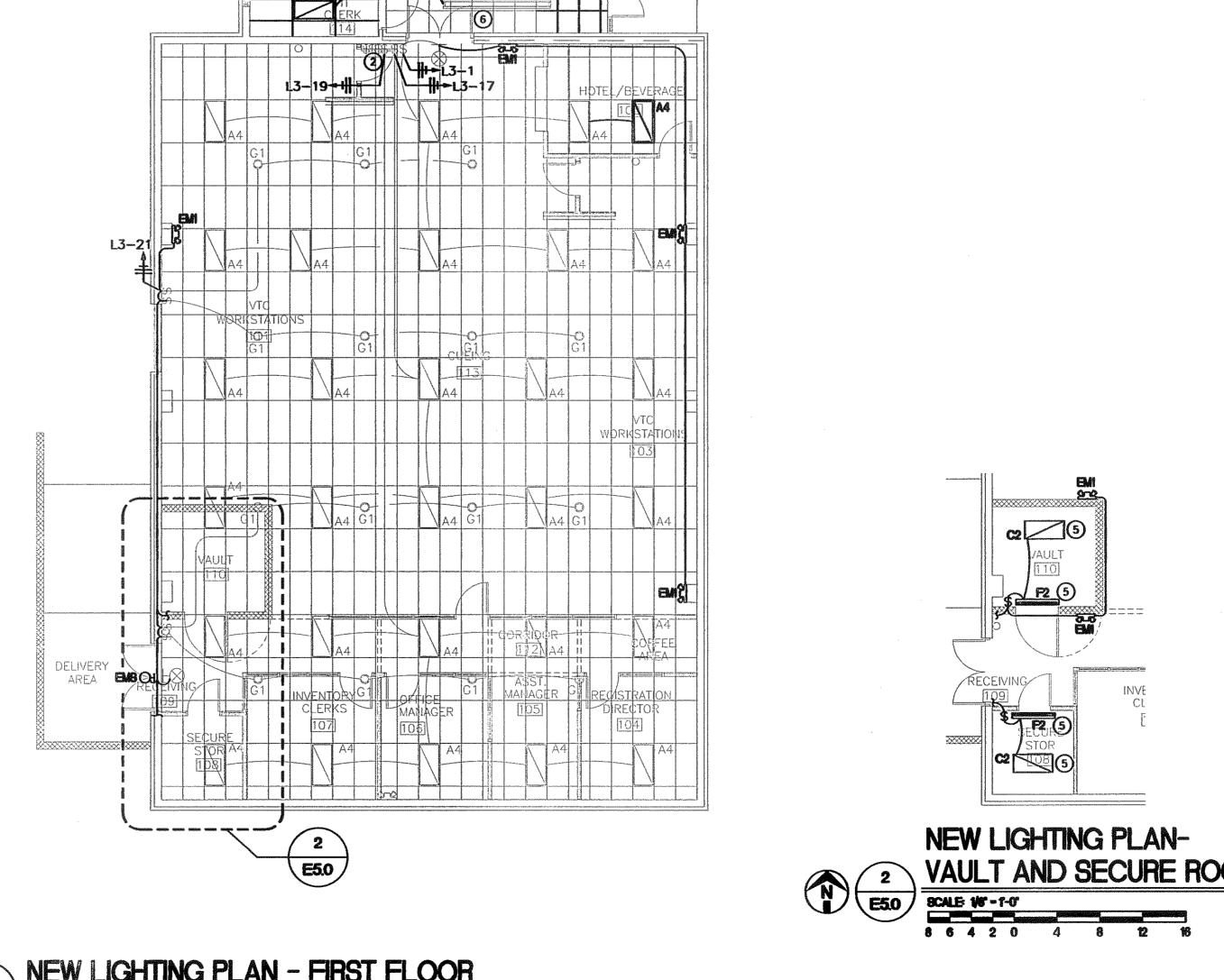
PROVIDE SYLVANIA OCTRON LAMPS WITH ALL FLUORESCENT FIXTURES (UNLESS OTHERWISE INDICATED). LAMPS SHALL BE RATED AT 85 CRI (SYLVANIA "835"). PROVIDE ELECTRONIC BALLASTS WITH TB FLUORESCENT FIXTURES (THD < 15%) UNLESS OTHERWISE INDICATED. EMERGENCY BATTERY PACKS FOR TB FIXTURES SHALL BE BODINE #850 (1350 LUMENS OR APPROVED EQUAL). EMERGENCY BATTERY PACKS FOR COMPACT FLUORESCENTS SHALL BE BODINE #894C OR APPROVED EQUAL.

PROVIDE ELECTRONIC BALLASTS WITH COMPACT FLUORESCENT FIXTURES (UNLESS OTHERWISE INDICATED). ACCEPTABLE BALLASTS ARE "ESB" BALLASTS.

LIGHT FIXTURES SHALL BE AS SPECIFIED AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRIOR APPROVED PER SPECIFICATIONS. ALL FLUORESCENT BALLASTS SHALL BE ENERGY SAVINGS AND CEC LISTED.

REFER TO PLAN FOR TYPES AND QUANTITIES USED. ALL TYPES LISTED ABOVE DO NOT NECESSARILY APPEAR ON PLAN. UPON COMPLETION OF THE PROJECT THE CONTRACTOR IS TO PROVIDE LABOR TO ADJUST THE COMPLETE INTERIOR LIGHTING PER THE DIRECTION OF THE USER,

ARCHITECT AND THIS OFFICE. THIS ADJUSTMENT IS NECESSARY TO FINALIZE THE LIGHTING SYSTEM-"MVOLT" DENOTES BALLAST AS MULTI-TAP FOR 120V, 208V, 240V AND 277V.
"CBA" INDICATES COLOR BY ARCHITECT. "FBA" INDICATES FINISH BY ARCHITECT.

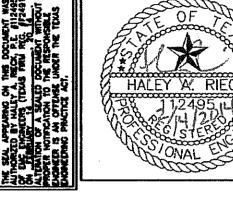




#### **ELECTRICAL GENERAL NOTES:**

- 1 ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 LIGHT FIXTURES OF THE TYPE INDICATED MAY BE RELOCATED EXISTING FIXTURES OF THE SAME TYPE OR NEW FIXTURES ACCORDING TO THE FIXTURE SCHEDULE ON THIS SHEET.
- 3 REFER TO THERMOSTAT MOUNTING SCHEMATIC ON SHEET E11.0.





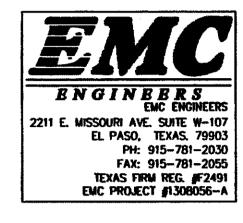
### ELECTRICAL REMODEL KEYED NOTES: (1)

1) EXISTING LIGHT FIXTURE TO REMAIN.

- (2) EXISTING EXTERIOR BUILDING LIGHTING CIRCUITS TO REMAIN AND BE CONTROLLED BY EXISTING SWITCHES IN THIS LOCATION. PHOTOCELLS ON EXISTING FIXTURES ARE OPERATIONAL.
- (3) COORDINATE ELEVATOR PIT LIGHT LOCATION WITH ELEVATOR EQUIPMENT.
- 4 CIRCUIT FIXTURE WITH EXISTING BUILDING EXTERIOR LIGHTING CIRCUIT FOR W1 FIXTURES SHOWN ON E6.0.
- 5 SURFACE MOUNT FIXTURES IN VAULT AND SECURE STORAGE IN COORDINATION WITH SHELVING.
- 6 EXISTING LINEAR PENDANT LIGHTS TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW LOBBY CONFIGURATION.

**NEW LIGHTING PLAN-**

VAULT AND SECURE ROOMS



TEXAS FIRM REG. #F2491 EMC PROJECT #1308056-A ASO COUNTY
EL PASO, TEXAS 79905

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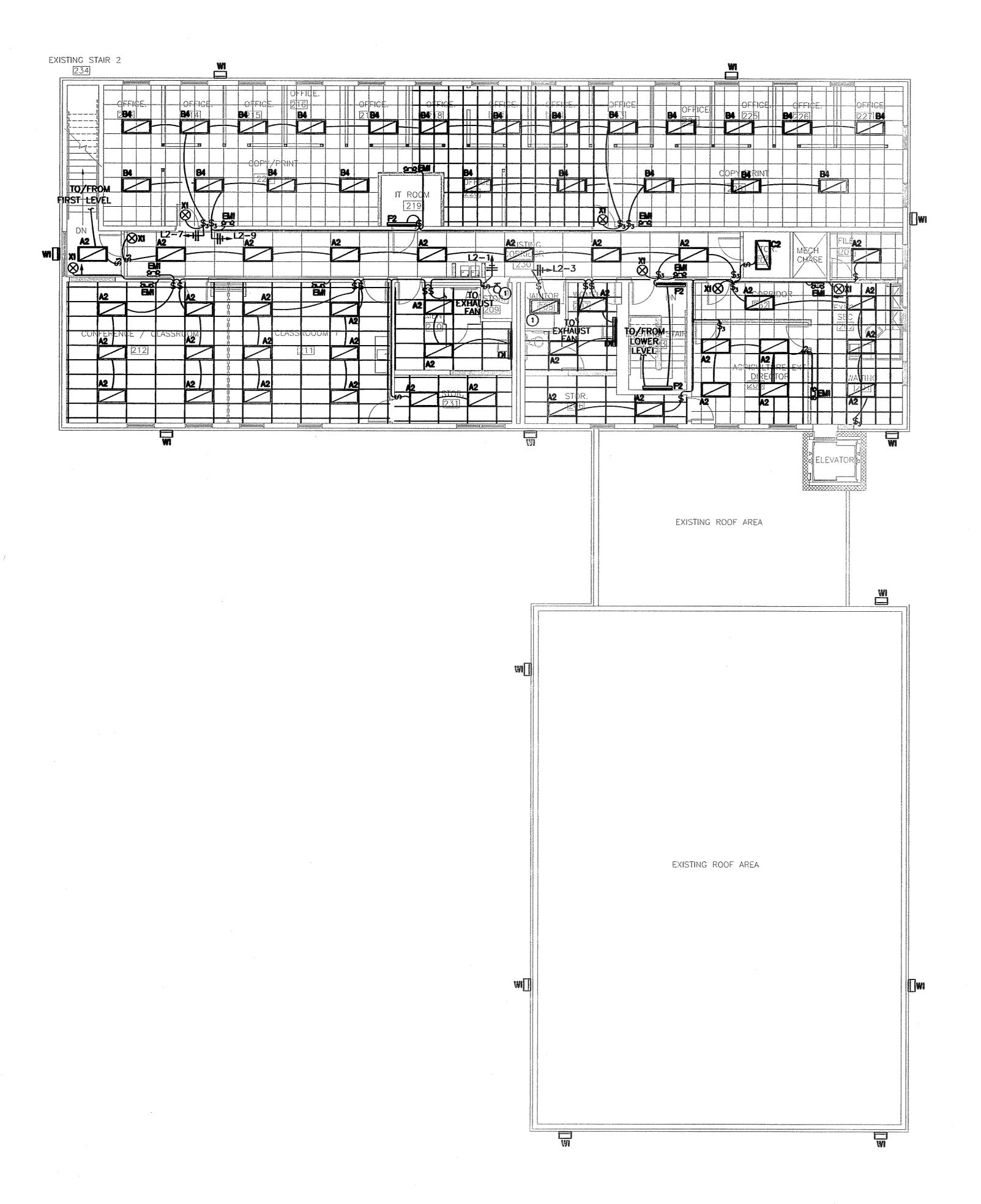


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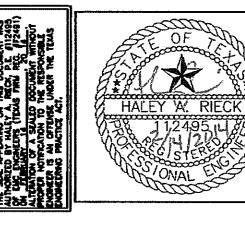
**NEW LIGHTING PLAN** FIRST FLOOR





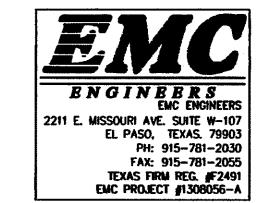
- 1 ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 LIGHT FIXTURES OF THE TYPE INDICATED MAY BE RELOCATED EXISTING FIXTURES OF THE SAME TYPE OR NEW FIXTURES ACCORDING TO THE FIXTURE SCHEDULE ON SHEET E5.O..
- 3 CONNECT NEW EXTERIOR WALLPACK FIXTURES TO EXISTING CIRCUIT ON PANEL L3 AND CONTROL WITH INTEGRAL PHOTOCELLS.
- 4 REFER TO THERMOSTAT MOUNTING SCHEMATIC ON SHEET E11.0.





#### ELECTRICAL REMODEL KEYED NOTES: (1)

1 EXISTING LIGHT FIXTURE TO REMAIN.



REMODELING OF THE ASCARATE ANNEX
FOR THE EL PASO COUNTY
301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905



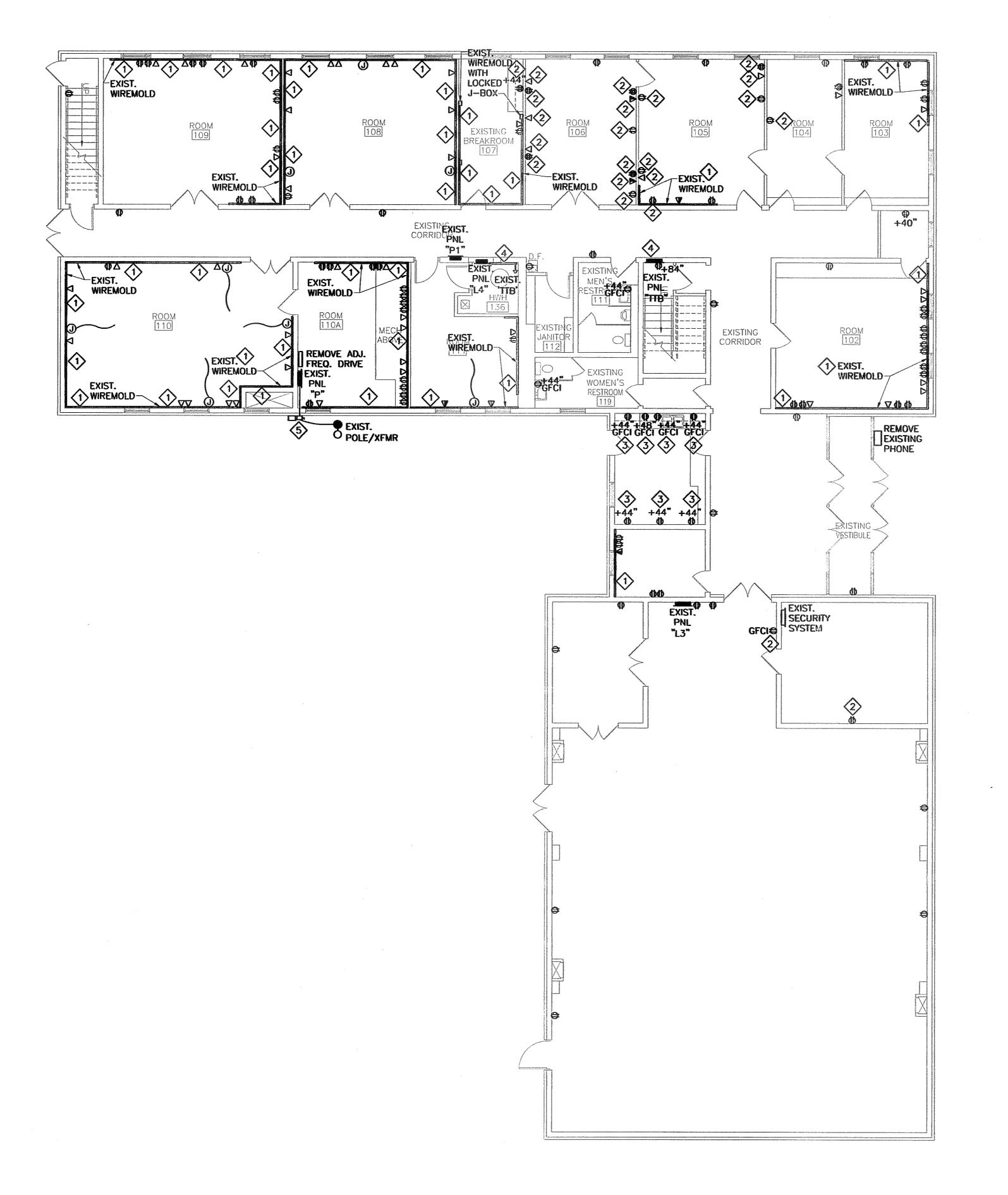
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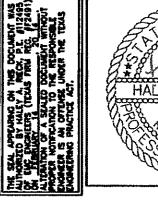
NEW LIGHTING PLAN SECOND FLOOR

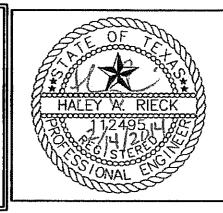




- 1 DEMOLITION WORK RELATED TO THE NEW 480Y/277V SERVICE AND RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 DURING DEMOLITION, TAKE CAUTION TO MINIMIZE DAMAGE TO CMU WALLS TO REMAIN. REFER TO ARCHITECTURAL PLANS.







### ELECTRICAL DEMOLITION KEYED NOTES: �

- (1) REMOVE EXISTING SURFACE MOUNTED RACEWAY AND ASSOCIATED POWER AND DATA OUTLETS. PRESERVE BRANCH CIRCUIT WIRING FOR RECONNECTION OF NEW POWER TO HOMERUN TO PANEL.
- 2 REMOVE POWER/DATA OUTLET ASSOCIATED WITH WALL TO BE DEMOLISHED.
  PRESERVE BRANCH CIRCUIT WIRING FOR RECONNECTION OF NEW POWER TO HOMERUN TO PANEL.
- 3 REMOVE POWER/DATA OUTLET.
- COORDINATE REMOVAL OF EXISTING COMMUNICATIONS EQUIPMENT IN THIS LOCATION VERIES EXISTING STATEMENT IN THIS LOCATION. VERIFY EXISTING ENCLOSURE WAS PREVIOUSLY FEDERAL PACIFIC ELECTRIC PANEL "L1A" AND ABANDON IN PLACE.
- (5) ANY DEMOLITION ASSOCIATED WITH THE NEW 480Y/277V ELECTRICAL SERVICE SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. COORDINATE TIMING WITH REMOVAL OF EXISTING HVAC UNIT AND THE INSTALLATION OF THE NEW HVAC UNIT IN THIS LOCATION.



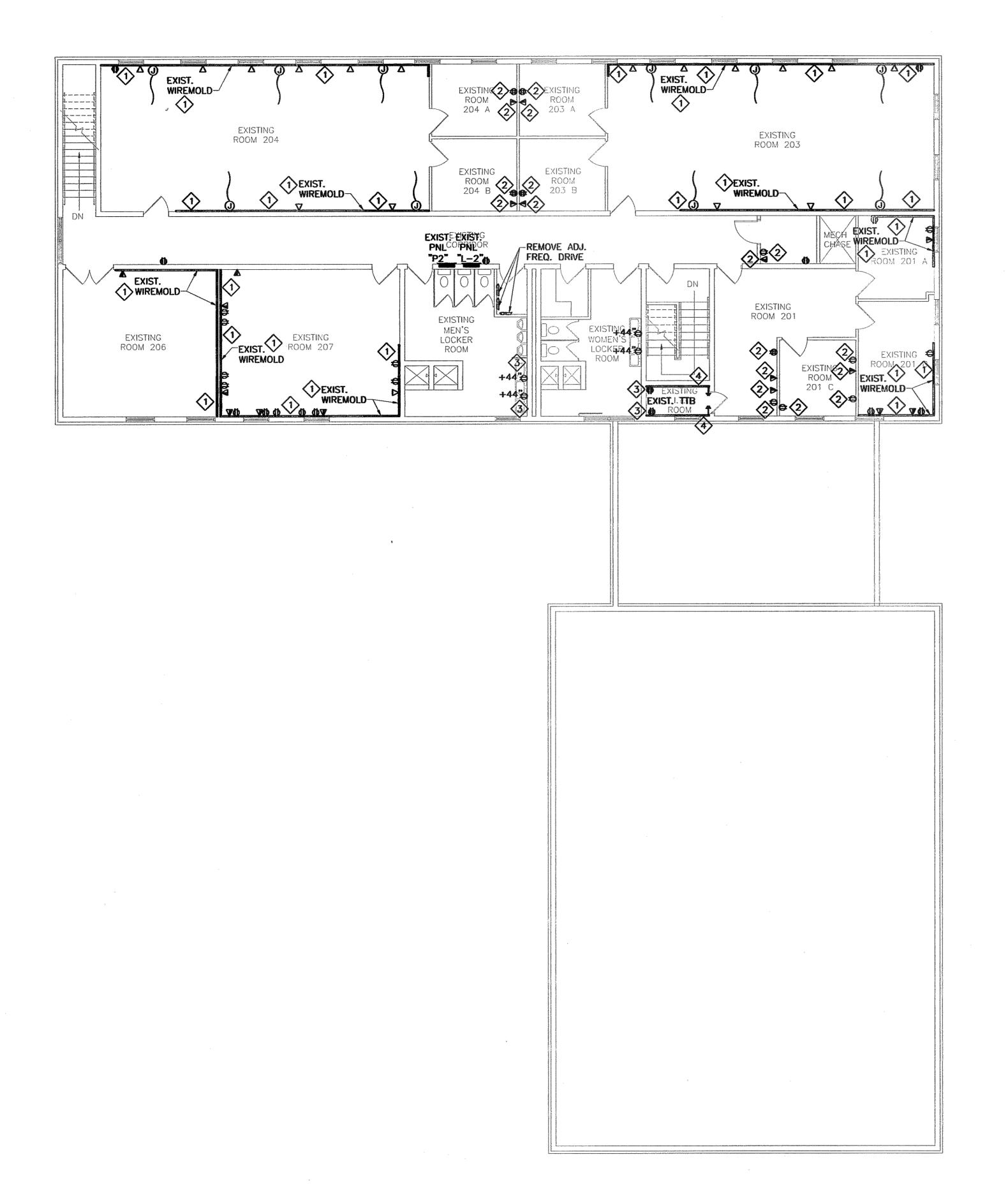
TEXAS FIRM REG. #F2491 EMC PROJECT #1308056-A

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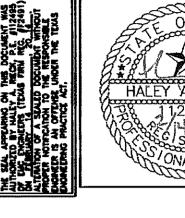
**DEMOLITION POWER PLAN FIRST FLOOR** 

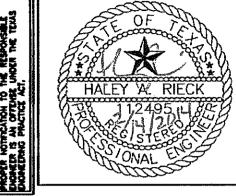




- DEMOLITION WORK RELATED TO THE NEW 480Y/277V SERVICE AND RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 DURING DEMOLITION, TAKE CAUTION TO MINIMIZE DAMAGE TO CMU WALLS TO REMAIN. REFER TO ARCHITECTURAL PLANS.

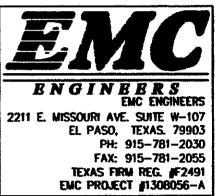






#### ELECTRICAL DEMOLITION KEYED NOTES: �

- 1 REMOVE EXISTING SURFACE MOUNTED RACEWAY AND ASSOCIATED POWER AND DATA OUTLETS. PRESERVE BRANCH CIRCUIT WIRING FOR RECONNECTION OF NEW POWER TO HOMERUN TO PANEL.
- 2 REMOVE POWER/DATA OUTLET ASSOCIATED WITH WALL TO BE DEMOLISHED.
  PRESERVE BRANCH CIRCUIT WIRING FOR RECONNECTION OF NEW POWER TO HOMERUN TO PANEL.
- 3 REMOVE POWER/DATA OUTLET.
- COORDINATE REMOVAL OF EXISTING COMMUNICATIONS EQUIPMENT IN THIS LOCATION.



PH: 915-781-2030 FAX: 915-781-2055 TEXAS FRM REG. #F2491 EMC PROJECT #1308056-A

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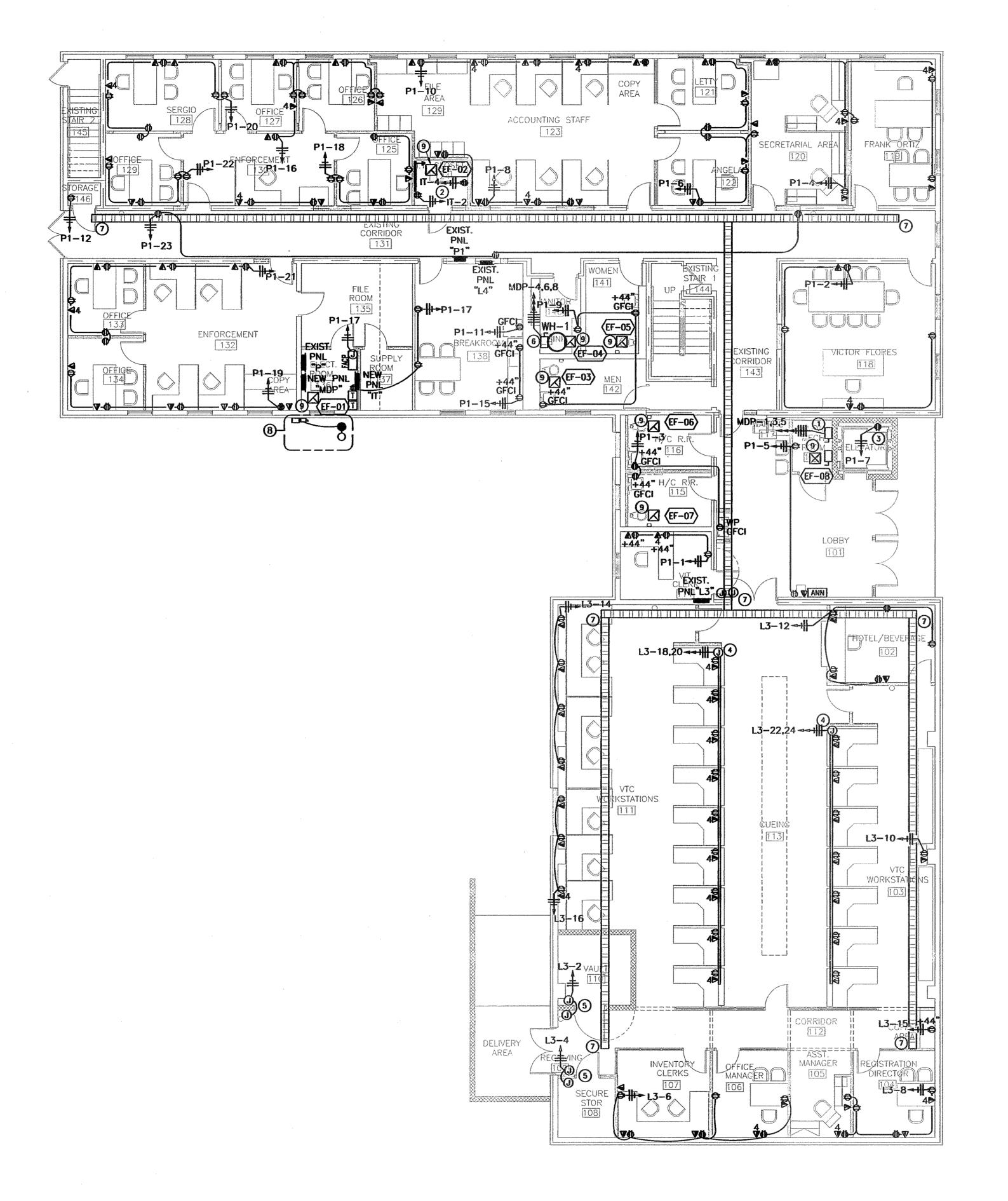


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DEMOLITION POWER PLAN SECOND FLOOR



# NEW POWER DATA AND SPECIAL SYSTEMS PLAN - FIRST FLOOR SCALE V8-1-07 8 6 4 2 0 4 8 12 16

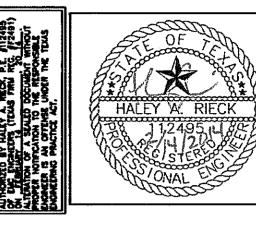
#### ELECTRICAL GENERAL NOTES:

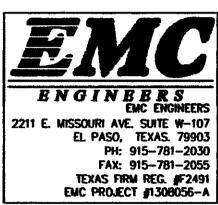
- WORK RELATED TO THE NEW 480Y/277V SERVICE, RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM AND ELECTRICAL ROUGH—IN FOR FUTURE ELEVATOR SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER ELECTRICAL WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 FIRE ALARM SYSTEM TO BE DESIGNED BY LICENSED FIRE ALARM CONTRACTOR AS REQUIRED TO MEET ALL APPLICABLE CODES AND REQUIREMENTS.
  PROPOSED FIRE ALARM CONTROL PANEL AND ANNUNCIATOR LOCATIONS ARE INDICATED ON THIS SHEET. SMOKE DETECTOR WILL BE REQUIRED AT THE TOP OF THE ELEVATOR HOISTWAY.
- 3 CIRCUITS SHALL BE RUN IN EXPOSED, SURFACE MOUNTED CONDUIT FROM OVERHEAD ON EXISTING CMU WALLS AND CONCEALED IN NEW WALLS.
- 4 REFER TO PANEL SCHEDULES ON SHEETS E12.0 AND E12.1.
- 5 REFER TO CONDUIT PENETRATION SCHEMATIC ON SHEET E11.0.
- 6 REFER TO DATA MOUNTING SCHEMATIC ON SHEET E11.0.

#### ELECTRICAL REMODEL KEYED NOTES: (1)

- 1) 600V, 3 POLE, HEAVY DUTY, NEMA 1 FUSIBLE DISCONNECT FUSED AT 60A FOR FUTURE ELEVATOR MOTOR.
- 2 CONFIRM SPECIAL RECEPTACLES FOR IT EQUIPMENT IN IT CLOSET. ALL CIRCUITS TO HOMERUN TO PANEL "IT." REFER TO PANEL SCHEDULE ON E12.0.
- (3) GFCI RECEPTACLE FOR SUMP PUMP. COORDINATE LOCATION WITH PUMP.
- 4 ROUTE POWER AND DATA CABLES TO WORKSTATIONS FROM POWER POLE/COLUMN AND SURFACE MOUNT ON NON-PUBLIC SIDE OF PARTITIONS. PROVIDE MULTIPLE CIRCUITS TO SERVE DESK ROWS AS SHOWN.
- 5 PROVIDE AND INSTALL ALL ELECTRICAL REQUIREMENTS AND DATA ROUGH-IN FOR VAULT AND SECURE STORAGE.
- (6) 480V. 15A. 3 POLE DISCONNECT FOR WATER HEATER WH-1.
- 7 CABLE TRAY FOR COMMUNICATIONS CABLES. COORDINATE LOCATION WITH SUSPENDED CEILINGS, DUCTWORK, LIGHTING AND OTHER EQUIPMENT.
  AT TRANSITION TO DIFFERENT CEILING HEIGHTS, USE CONDUIT OR CABLE TRAY MANUFACTURER—APPROVED METHOD TO PROTECT CABLING FROM DAMAGE.
- 8 REFER TO RISER DIAGRAM FOR NEW 480Y/277V, 3 PHASE SERVICE TO BUILDING. COORDINATE WITH HVAC EQUIPMENT AND DUCTWORK LOCATIONS.
- (9) CIRCUIT EXHAUST FAN WITH ROOM LIGHTS.







REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY 301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905



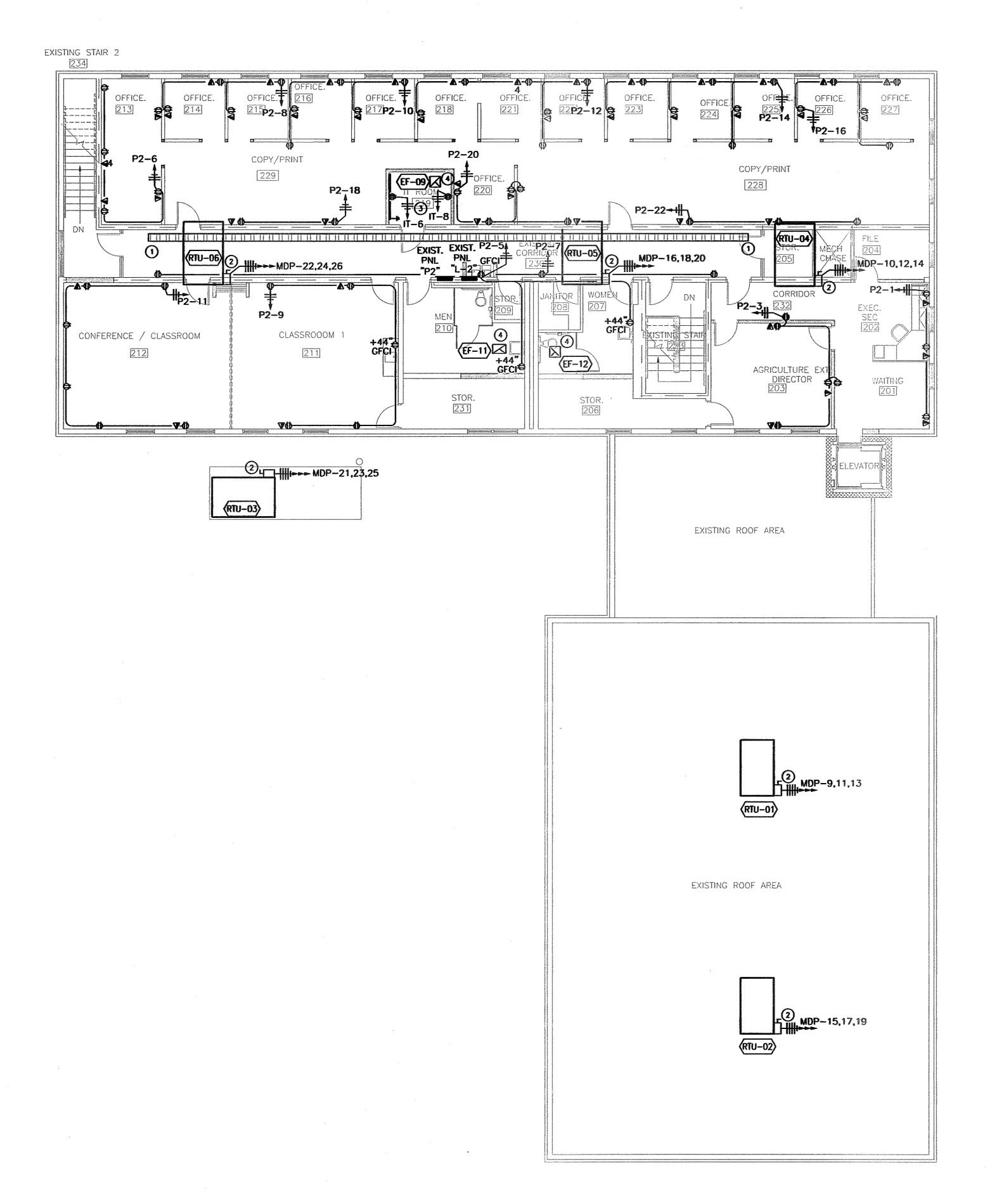
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NEW POWER DATA AND SPECIAL SYSTEMS PLAN FIRST FLOOR



NEW POWER DATA AND SPECIAL SYSTEMS PLAN - SECOND FLOOR 8CALE V6-1-0 8 6 4 2 0 4 8 12 16

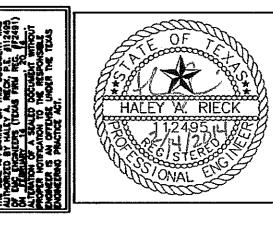
#### **ELECTRICAL GENERAL NOTES:**

- 1 WORK RELATED TO THE NEW 480Y/277V SERVICE, RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM AND ELECTRICAL ROUGH-IN FOR FUTURE ELEVATOR SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER ELECTRICAL WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.
- 2 FIRE ALARM SYSTEM TO BE DESIGNED BY LICENSED FIRE ALARM CONTRACTOR AS REQUIRED TO MEET ALL APPLICABLE CODES AND REQUIREMENTS. PROPOSED FIRE ALARM CONTROL PANEL AND ANNUNCIATOR LOCATIONS ARE INDICATED ON THIS SHEET. SMOKE DETECTOR WILL BE REQUIRED AT THE TOP OF THE ELEVATOR HOISTWAY.
- 3 CIRCUITS SHALL BE RUN IN EXPOSED, SURFACE MOUNTED CONDUIT FROM OVERHEAD ON EXISTING CMU WALLS AND CONCEALED IN NEW WALLS.
- 4 REFER TO PANEL SCHEDULES ON SHEETS E12.0 AND E12.1.
- 5 REFER TO CONDUIT PENETRATION SCHEMATIC ON SHEET E11.0.
- 6 REFER TO DATA MOUNTING SCHEMATIC ON SHEET E11.0.
- 7 ENSURE THERE ARE EXISTING HVAC SERVICE RECEPTACLES WITH WEATHERPROOF COVERS FOR ROOFTOP UNITS WITHIN 50' OF EACH UNIT PER NEC REQUIREMENTS. IF THERE IS NOT, INSTALL RECEPTACLES AS REQUIRED AND CONNECT TO SPARE CIRCUIT ON PANEL P-2.

#### ELECTRICAL REMODEL KEYED NOTES: ①

- 1) CABLE TRAY FOR COMMUNICATIONS CABLES. COORDINATE LOCATION WITH SUSPENDED CEILINGS, DUCTWORK, LIGHTING AND OTHER EQUIPMENT. AT TRANSITION TO DIFFERENT CEILING HEIGHTS, USE CONDUIT OR CABLE TRAY MANUFACTURER-APPROVED METHOD TO PROTECT CABLING FROM DAMAGE.
- (2) HVAC CONTRACTOR TO PROVIDE NEMA 3R DISCONNECTS SIZED FOR THEIR EQUIPMENT AND INSTALL ELECTRICAL CONNECTIONS TO MAIN DISTRIBUTION PANEL AS SHOWN. REFER TO PANEL SCHEDULE ON SHEET E12.0.
- 3 CONFIRM SPECIAL RECEPTACLES FOR IT EQUIPMENT IN IT CLOSET. ALL CIRCUITS TO HOMERUN TO PANEL "IT." REFER TO PANEL SCHEDULE ON E12.0.
- (4) CIRCUIT EXHAUST FAN WITH ROOM LIGHTS.

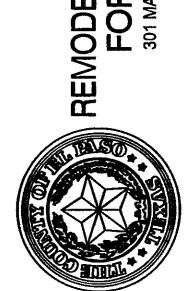






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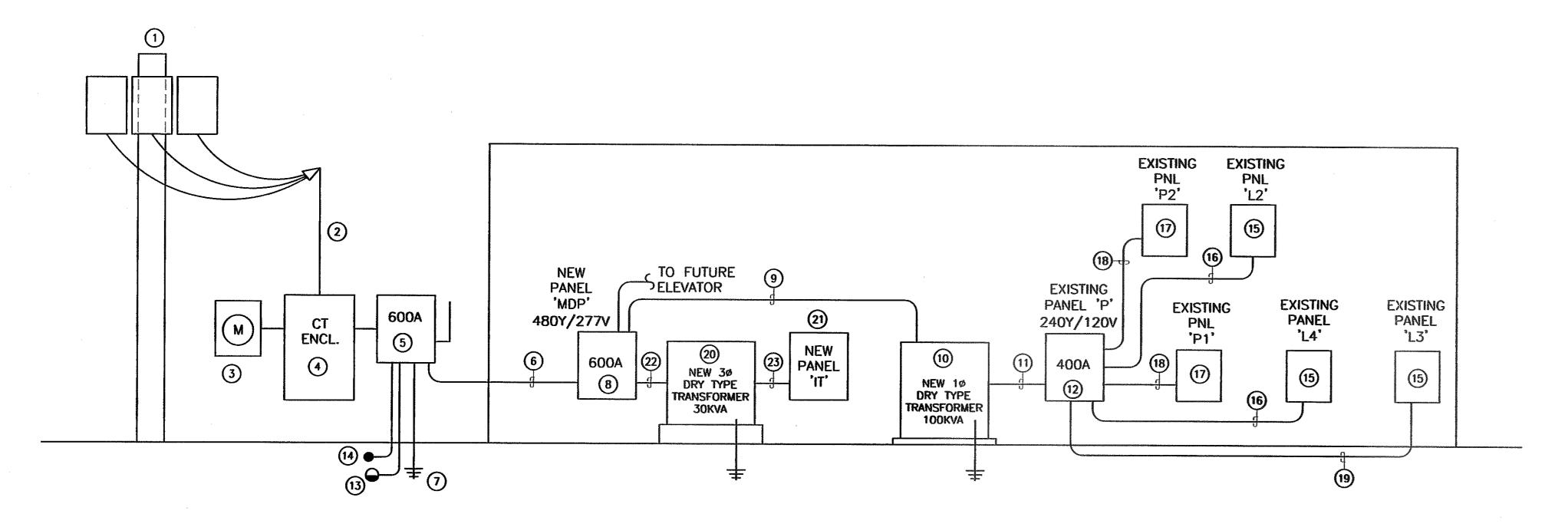


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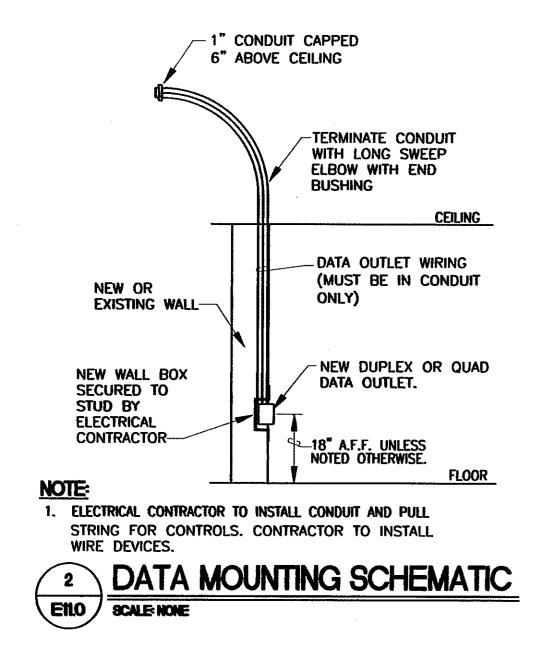
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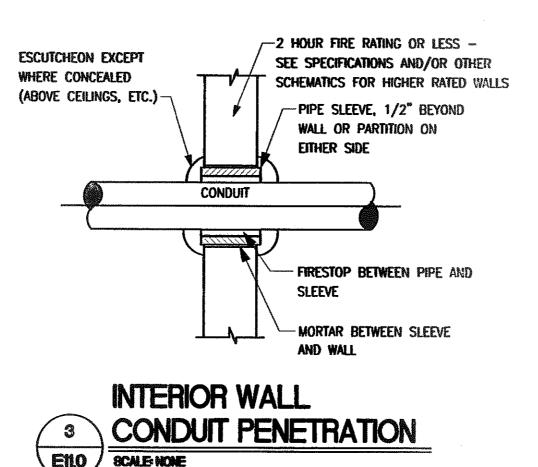
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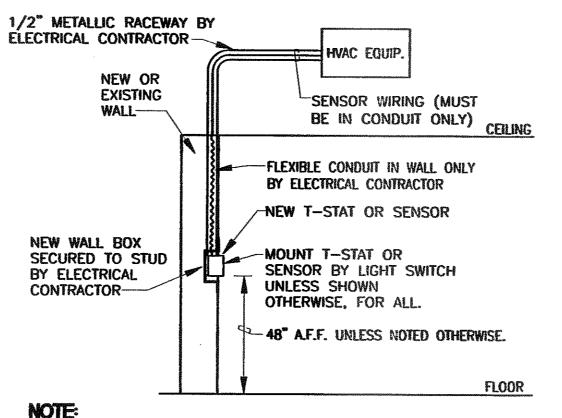
SPECIAL SYSTEMS PLAN ල් SECOND FLOOR



## ELECTRICAL RISER DIAGRAM SCALE:







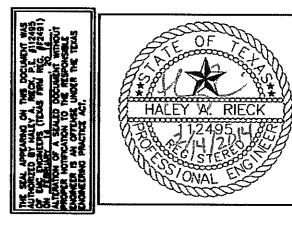
1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT AND PULL
STRING FOR CONTROLS. CONTRACTOR TO INSTALL WIRE DEVICES.

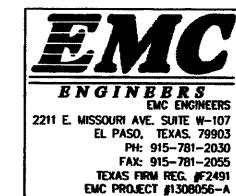




#### **ELECTRICAL GENERAL NOTES:**

- 1 WORK RELATED TO THE NEW 480Y/277V SERVICE, RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM AND ELECTRICAL ROUGH—IN FOR FUTURE ELEVATOR SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER ELECTRICAL WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS. REFER TO KEYED NOTES.
- 2 COEP ELECTRICIANS TO REUSE THE EXISTING FEDERAL PACIFIC ELECTRIC PANEL ENCLOSURES FOR PANELS "L2," "L3," AND "L4" BECAUSE THEY ARE IN EXISTING CMU WALLS. COEP ELECTRICIANS TO REPLACE ALL PANEL INTERIOR COMPONENTS INCLUDING BUSWAY, BREAKERS, AND GROUNDING.





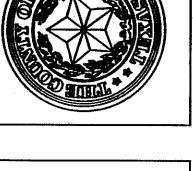
# ELECTRICAL REMODEL KEYED NOTES: (WORK BY ELECTICAL CONTRACTOR)

- OVERHEAD SERVICE WITH NEW POLE-MOUNTED TRANSFORMERS.
- 2 WEATHERHEAD WITH RISER OF (2) 2-1/2" CONDUITS EACH WITH (4) #350 KCMIL CU CONDUCTORS PER EL PASO ELECTRIC STANDARDS.
- (3) NEW METER SOCKET PER EL PASO ELECTRIC STANDARDS.
- (4) CT METERING ENCLOSURE PER EL PASO ELECTRIC STANDARDS.
- (5) 600A HEAVY DUTY, SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH FUSED AT 600A IN NEMA 3R ENCLOSURE.
- (2) 3" CONDUITS EACH WITH (4) #350 KCMIL CU CONDUCTORS AND (1) #1 CU EQUIPMENT GROUNDING CONDUCTOR (EGC).
- 7) #6 CU TO 3/4" X 10" COPPER GROUNDING ROD. PROVIDE AND INSTALL NEW GROUNDING ROD; DO NOT REUSE EXISTING GROUNDING ROD.
- 8 NEW 480Y/277V, 600A, 3 PHASE PANELBOARD. REFER TO PANEL SCHEDULE ON E12.0 FOR FURTHER INFORMATION. PROVIDE AND INSTALL FEEDER AND DISCONNECT FOR FUTURE ELEVATOR IN ELEVATOR MACHINE ROOM.
- 9 2" CONDUIT WITH (2) #300KCMIL CU THWN AND (1) #4 EGC.
- 10 NEW 100KVA, 480V : 240/120V SINGLE PHASE DRY-TYPE TRANSFORMER.
- (1) REFEED EXISTING MAIN 240/120V, SINGLE PHASE PANEL WITH
  (2) PARALLEL 2" CONDUIT EACH WITH (2) #4/0 CU THWN AND (1) #2 EGC.
- (12) DISCONNECT EXISTING 400A, 240/120V, SINGLE PHASE PANEL FROM EXISTING SERVICE AND REFEED DOWNSTREAM OF TRANSFORMER AS SHOWN.
- (13) #2/0 CU GROUNDING ELECTRODE CONDUCTOR (GEC) TO COPPER WATER PIPE.
- (14) #2/0 CU GEC TO BUILDING STEEL.

## ELECTRICAL REMODEL KEYED NOTES: (WORK BY COEP ELECTRICIANS)

- (15) COEP ELECTRICIANS TO REPLACE INTERIOR COMPONENTS OF EXISTING FEDERAL PACIFIC ELECTRIC PANEL AND RETERMINATE ALL BRANCH CIRCUITS. REFER TO GENERAL NOTE #2 AND PANEL SCHEDULE ON SHEET E12.0 FOR FURTHER INFORMATION.
- (16) COEP ELECTRICIANS TO REUSE EXISTING CONDUCTORS TO EXISTING 240/120V PANEL AS SHOWN.
- (17) EXISTING 225A, 240/120V SINGLE PHASE PANELBOARD LOCATED IN THE HALLWAY. REFER TO PANEL SCHEDULE ON SHEET E12.0 FOR FURTHER INFORMATION.
- (18) EXISTING CONDUCTORS TO REMAIN.
- (19) REMOVE EXISTING ALUMINUM FEEDER TO EXISTING PANEL L3. REFEED PANEL WITH NEW COPPER CONDUCTORS IN NEW CONDUIT UNDERGROUND FROM ELECTRICAL ROOM: 1-1/4" CONDUIT WITH (4) #2 CU THWN AND (1) #8 CU THWN.
- 20 NEW 480 : 208Y/120V, 30KVA, 3 PHASE DRY TYPE TRANSFORMER FOR IT EQUIPMENT. THIS TRANSFORMER PROVIDES AN ISOLATED GROUND SYSTEM FOR PANEL "IT."
- (21) NEW 208Y/120V, 100A, 3 PHASE PANEL "IT." REFER TO PANEL SCHEDULES ON SHEET E12.0 FOR FUTHER INFORMATION.
- (22)3/4" CONDUIT WITH (3) #6 CU THWN AND (1) #10 EGC.
- (23)1-1/4" CONDUIT WITH (4) #2 CU THWN AND (1) #8 EGC.

REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY 301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905



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ELECTRICAL RISER DIAGRAM

				<u> </u>	XISTING P	ANEL P	SCHEDU	ILE					
		SERVICE:	240/120	VOLT	1	PHASE		3 WIRE			ENCLOSURE: NEWA 1		
		SIC:	22,000	AIC	MAIN:	400	AMPS	TYPE:	MCB		TYPE: SURFACE MOUNTED		
LC	OCATION	: FIRST PLOOR SERVICE ENTRANCE ROOM			BUS:	400	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT	<u> </u>	LOAD DESCRIPTION	<del></del>								LOAD DESCRIPTION		CK
NO.	TYPE		POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	N
	0	MAIN FIRST FLOOR PANEL P-1	2	225	9,500	17,500		8,000	225	2	MAIN SECOND FLOOR PANEL P-2	0	
	0		<u> </u>	ļ	8,750		16,750	8,000		<u></u>		0	
1	0	MAIN PANEL L-4, MAINTENANCE ROOM	2	100	7,300	14,800		7,500	100	2	MAIN PANEL L-2, SECOND FLOOR	0	1 2
3	0				7,300		15,150	7,850				0	
5	0	MAIN PANEL L-3, FIRST FLOOR GYW	2	100	11,400	11,400			100	2	MAIN PANEL L-1A, FIRST FLOOR	0	[
7	0	<u> </u>			9,780		9,780	0		<u> </u>	(PANEL HAS BEEN REMOVED)	0	
9		_E.V. #1	2	30	900	2,400		1,500	50	2	E.V. //3	1,1	1
11	M				900		2,400	1,500				M	1
13		E.V. #2	2	30	900	1,800		900	30	2	E.V. #4_	M	1
15	M				900		1,800	900				M	1
17	0	SPACE	ļ			0					SPACE	0	1
19	0	SPACE	<u> </u>				0				SPACE SPACE	0	2
21	0	SPACE	<u> </u>	ļ		0		<u> </u>			SPACE SPACE	0	2
23	0	SPACE					0	<u> </u>			SPACE	0	2
25	0	SPACE	<b></b>	ļ	ļ	0	<u> </u>				SPACE	0	2
27	0	SPACE	<del>- </del>			<del></del>	0	- <b> </b>	R-		SPACE	0	2
29	0	SPACE		<b></b>		0	ļ	<u> </u>			SPACE	0	3
31	0	SPACE					0	_[			SPACE	0	]
33	<del></del>	SPACE SPACE				0		<u> </u>			SPACE	0	3
35	0	SPACE	<del>                                     </del>	<u> </u>			0	<u> </u>			SPACE SPACE	<u> 0</u>	3
37		SPACE	<u> </u>	<del> </del>		<u> </u>	<del> </del>				SPACE	0	
39			-	-		<u> </u>	0	<u> </u>			SPACE	0	4
41 BDING		SPACE		601	TATELOGRAPH AVA	0	45.00			L	SPACE	0	4
		NDUITS SHALL BE IN ACCORDANCE WITH L GENERAL NOTES #36 AND #46, UNLESS			INECTED VA	47,900		_			tion of the authors to the contract of the con		
	ectrica OTHERWI	- · · · · · · · · · · · · · · · · · · ·			iected amps inected kva	399.2			/ 5048		UNBALANCE %	4.2	;
		MAY VARY FROM CONNECTED			ERSITY AMPS	93.8 390.8		MAX AMPS	/ PM				
							4						
		F OF CODE DIVERSITIES OF LOAD		IOIVP D	VERSITY KVA	93.8	<u> L</u>	<del></del>		**************************************		ELEKTRISTINI SUKSTRANIA	distantiate and
	HEE U	DESCRIPTION	VA	DEMAND FAC	TAR	DEMAND VA							
	С	CONTINUOUS	0.0			0.0							
	N	NON-CONTINUOUS	0.0			0.0							
	K	KITCHEN	0.0			0.0							
	R	RECEPTACLES	0.0			0.0							
	0	OTHER	85380.0			0.0 85380.0							
	и	MECHANICAL	8400.0			8400.0							
	IĀI	ALT PLANTED	<u> </u>	<u>,</u> 1.00		0700.0	_						

				E	CISTING PA	NEL P1	SCHEDU	JLE					
		SERVICE:	240/120	VOLT	1	PHASE	3	WIRE			ENCLOSURE: NEWA 1	no incomplete delivoration del	
		SIC:	22,000	AIC	MAIN:	225	AMPS	TYPE:	MCB		TYPE: RECESS MOUNTED		
L. LO	OCATION:	: First Floor Corridor			BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT		LOAD DESCRIPTION						l i			LOAD DESCRIPTION		CKT
NO.	TYPE		POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	NO.
1		PRINTER ROOM 105	1	20	750	1,500		750	20	1	PRINTER ROOM 104	R	2
3		WORKSTATION 105	1	20	500		1,000	500	20	1	WORKSTATION	R	4
5	I	WORKSTATION 105	11	20	500	1,000		500	20	1	WORKSTATION	R	6
7		PRINTER ROOM 106	1	20	750		1,250	500	20	1	WORKSTATION	R	8
9		WORKSTATION 106	11	20	500	1,000		500	20	1	WORKSTATION	R	10
11		WORKSTATION 106	1	20	500		1,000	500	20	1	WORKSTATION	R	12
13		WORKSTATION 106	1	20	500	1,250		750	20	1	PRINTER ROOM 104C	R	14
15		WORKSTATION 106	1	20	500		1,000	500	20	1	WORKSTATION	R	16
17		WORKSTATION 106	1 1	20	500	1,000		500	20	1	WORKSTATION	R	18
19		WORKSTATION 102	11	20	500		1,000	500	20	1	WORKSTATION	R	20
21		PRINTER ROOM 110	1	20	750	1,500		750	20	1	PRINTER ROOM 108	R	22
23		WORKSTATION 110	1	20	750		1,250	500	20	1	WORKSTATION 108	R	24
25		WORKSTATION 110	1	20	500	1,000		500	20	1	WORKSTATION	R	26
27		WORKSTATION 117	1	20	500		1,000	500	20	1	WORKSTATION	R	28
29		WORKSTATION 117	1	20	500	1,250		750	20	1	WORKSTATION 114	R	30
31		WORKSTATION 117	1	20	500		1,250	750	20	į	COPIER 107	Ð	32
33	0	SPACE			,	0					SPACE	0	34
35	0	SPACE					0				SPACE	0	36
37	0	SPACE		<u> </u>		0					SPACE	0	38
39		SPACE					0				SPACE	0	40
41		SPACE	<u> </u>			0					SPACE	0	42
		NDUITS SHALL BE IN ACCORDANCE WITH		CON	INECTED VA	9,500	8,750			30.00			
		l general notes #36 and #46, unless			(ECTED AMPS	79.2	72.9				unbalance 3	7.0	1
NOTED (					INECTED KVA	18.3	79.2	MAX AMPS	/ PH		•		
DEMAND	LOADS	MAY VARY FROM CONNECTED		DIV	ersity amps[	76.0		-					
		OF CODE DIVERSITIES		TOTAL DI	VERSITY KVA	18.3							
	TYPE O												
ļ		DESCRIPTION	VA	DEMAND FAC	TOR	DEMAND VA							
	C	CONTINUOUS	0.0	1.25	•	0.0							
	N	NON-CONTINUOUS	0.0	1.00	i	0.0							
l	K	KITCHEN	0.0	0.65		0.0							
1	R	RECEPTACLES	18250.0	1.00		18250.0							
	0	OTHER	0.0	1.00		0.0							
	M	MECHANICAL	0.0	1.00	,	0.0					•		
1		TOTAL	0.0		•	18250.0	•						
i			0										

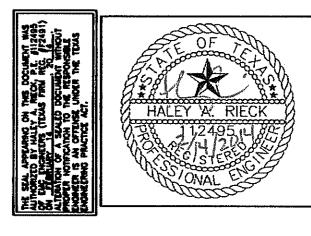
				E)	KISTING PA	anel "P2	" SCHED	ULE					
		SERVICE:	240/120		1	PHASE		3 WIRE			ENCLOSURE: NEMA 1		
		SIC:	22,000	AIC	MAIN:	225	AMPS	TYPE:	MCB		TYPE: RECESS MOUNTED		
L	OCATION:				BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT	<u> </u>	LOAD DESCRIPTION	N			f					LOAD DESCRIPTION		CKI
NO.	TYPE	SERVICE	POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	NO.
1		PRINTER ROOM 201	1 1	20	750	1,500		750	20	1	COPIER ROOM 214		2
		WORKSTATION 201	11	20	500		1,000	500	20	1	WORKSTATION ROOM 213 A & B		4
5		WORKSTATION 204	1	20	500	1,250		750	20	1	PRINTER ROOM 213B	R	6
7		WORKSTATION 204	11	20	500		1,250	750	20	1	PRINTER ROOM 213C	R	8
9		WORKSTATION 204	1	20	500	1,250	•	750	20	1	PRINTER ROOM 2130	R	10
11		PRINTER ROOM 204	1	20	750		1,250	500	20	1	WORKSTATION 213 C & D	R	12
13		WORKSTATION 202	1	20	500	1,000		500	20	1	WORKSTATION 202 A & B	R	14
15		WORKSTATION 202	1	20	500		1,000	500	20	1	WORKSTATION 212 A & B	R	16
17	R	WORKSTATION 202	1	20	500	1,000		500	20	1	WORKSTATION 212	R	18
19	R	PRINTER ROOM 202	1	20	750		1,250	500	20	1	WORKSTATION 212	R	20
21	R	WORKSTATION 202	1	20	500	1,000		500	20	1	WORKSTATION 212	R	22
23	R	WORKSTATION 202	1	20	500	·	1,250	750	20	1	PRINTER ROOM 212	R	24
25	R	WORKSTATION 203	1	20	500	1,000		500	20	1	WORKSTATION 212	R	26
27	R	WORKSTATION 203	1	20	500		1,000	500	20	1	WORKSTATION 212	R	28
29	0	SPACE				0					SPACE	0	30
31		SPACE					0				SPACE	0	32
33		SPACE				0			***************************************		SPACE	0	34
35		SPACE					0				SPACE	0	36
37		SPACE				0					SPACE	0	38
39		SPACE					0				SPACE	0	40
41	0	SPACE				0		1			SPACE	0	42
VIRING	AND CON	NDUITS SHALL BE IN ACCORDANCE WITH		C01	NNECTED VA	8,000	8,00	0					a construction
1.0 EL	ECTRICAL	GENERAL NOTES #36 AND #46, UNLESS		CONI	NECTED AMPS	66.7	66.	7			undalance 3	0.0	)
NOTED (	OTHERWIS	SE.		TOTAL CO	NNECTED KVA	16.0	66.	MAX AMPS	/ PH				
DEMAND	LOADS	MAY VARY FROM CONNECTED		DIV	ERSITY AMPS	66.7							
OADS I	BECAUSE	OF CODE DIVERSITIES		TOTAL D	IVERSITY KVA	16.0	i						
	TYPE OF	F LOAD						<u></u>	**************************************		COMMUNICATION CONTRACTOR CONTRACT		
		DESCRIPTION	VA	DEMAND FAC	TOR	AV GMAMAG							
	C	CONTINUOUS	0.0	1.25	•	0.0	•						
	N	NON-CONTINUOUS	0.0	1.00	)	0.0	•						
	K	KITCHEN	0.0	0.65	<b>;</b>	0.0							
	R	RECEPTACLES	16000.0	1.00	}	16000.0							
	0	OTHER	0.0	1.00	)	0.0	)						
		MECHANICAL	0.0			0.0							
		TOTAL	0.0		•	16000.0	<b>2</b>				÷		
			0.0			. 0000.0							

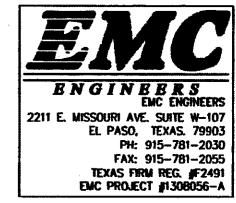
				E	XISTING P	ANEL "L2"	" SCHEDU	JLE	ioalianocoaeaooansiineksiiniiniiniiniiniiniiniinii				
		. SERVICE:	240/120	VOLT	1	PHASE		3 WIRE			ENCLOSURE: NEMA 1		
		SIC:	22,000	A!C	MAIN:	225	AMPS	TYPE:	MO		TYPE: RECESS MOUNTED		
L(	CATION:	SECOND PLOOR CORREDOR			BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT		LOAD DESCRIPTION							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONTRACTOR OF THE PROPERTY OF	LOAD DESCRIPTION		CKT
NO.	TYPE		POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	NO.
1		LIGHTS 201	1	20	800	1,600		800	20	1	LIGHTS 203	C	2
3		LIGHTS 204	1	20	800		1,600	800	20	1	LIGHTS 206	C	4
5		LIGHTS 202	ą.	20	800	1,300		500	20	1	RM 209 OUTLET UNDER LIGHT	R	6
7		RECPT. 202	Ę	20	500		1,300	800	20	1	LIGHTS 212	C	8
9		HALL LIGHTS	1	20	800	1,300		500	20	î	RECPTS. 212	R	10
11		LIGHTS 209	1	20	800		1,050	250	20	1	Ext. Fans		12
13		LIGHTS 205-208	1	20	800	1,300		500	20	1	COMPUTER ROOM 211	R	14
15		LIGHTS 211-213	1	20	800		1,300	500	20	1	RECPT. 206	R	16
17		TELEPHONE RECEPT.	· ·	20	500	1,000		500	20	1	SPARE	0	18
19		UNIT HEATERS	4	20	800		1,600	800	20	1	Unit heaters	M	20
21		RECPT. HALL	1	20	500	1,000		500	20	1	RECEPT 204	R	22
23		COMPUTER ROOM 211 ADDITION	1	20	500		1,000	500	20	1	RECEPT 201	R	24
		VOUITS SHALL BE IN ACCORDANCE WITH	and the second s	CO	NNECTED VA	7,500							· · · · · · · · · · · · · · · · · · ·
		. GENERAL NOTES #36 AND #46, UNLESS			nected amps						Unbalance %	4.5	•
NOTED (					nnected kva			MAX AMPS	/ PH				
R		MAY VARY FROM CONNECTED			versity amps								
Benediction		OF CODE DIVERSITIES	2 24 m. 224 24 CO 24 pm 25 pm 25 pm 27 24 pm 27	TOTAL E	AVA YTIERBYI	17.4							
	TYPE O												
		DESCRIPTION	VA	DEMAND FAI	TOR	DEMAND VA							
SWARDOW S	_	CONTINUOUS	8000.0	1.2	5	10000.0							
	N	NON-CONTINUOUS	0.0	1.0	)	0.0							
	K	KITCHEN	0.0	0.69	5 ´	0.0							
	R	RECEPTACLES	5000.0	1.0	)	5000.0							
	0	OTHER	500.0	1.0	)	500.0							
trodustro.	M	MECHANICAL	1850.0	1.0	)	1850.0	_						
		TOTAL	0.0	•		17350.0	•						•
			0	1									

CKT			240/120	VOLT	基	PHASE		3 WIRE			ENCLOSURE: NEWA 1		
CKT		SIC:	22,000	ac	MARY:	225	AMPS	TYPE:	MIO		TYPE: RECESS MOUNTED		
	ATION:	FIRST FLOOR GYM			BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
NO.		LOAD DESCRIPTION									LOAD DESCRIPTION		CKT
	TYPE	SERVICE	POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	NO.
1	0	UNLABELED LOAD	1	20	800	1,300		500	20	1	UNLABELED LOAD	0	2
3	0	UNLABELED LOAD	2	20	500		1,000	500	20	1	UNLABELED LOAD	0	4
5	0			an Anna	500	1,000		500	20	1	UNLABELED LOAD	0	6
7		UNLABELED LOAD	1	20	800		980	180	20	1	RECEPTACLE BY PANEL	R	8
9	0	UNLABELED LOAD	2	30	1,500	2,000		500	20	1	UNLABELED LOAD	0	10
11	0				1,500		2,000	500	20	1	UNLABELED LOAD	0	12
13		UNLABELED LOAD	ŧ	20	800	1,600		800	20	1	. HEATER	M	14
15		UNLABELED LOAD	q.	20	800		1,600	800	20	1	HEATER	M	16
17		UNLABELED LOAD	1	20	800	1,300		500	20	1	UNLABELED LOAD	0	18
19	0	UNLABELED LOAD	2	30	1,500		2,000	500	20	2	UNLABELED LOAD	0	20
21	0			NA STEEL	1,500	2,000		500	1			0	22
23	0 ]	UNLABELED LOAD	2	15	500		1,000	500	20	1	UNLABELED LOAD	0	24
25	0		***		500	1,000		500	20	1	UNLABELED LOAD	0	26
		SPACE			0		1,200	1,200	20	1	ICE MACHINE	K	27
		SPACE			0	1,200		1,200	20	1	MICROWAVE	K	29
		DUITS SHALL BE IN ACCORDANCE WITH		CO	NNECTED VA	11,400	9,78						4
		GENERAL NOTES #36 AND #46, UNLESS		CON	nected amps						unbalance x	14.2	
TED OTI				TOTAL CO	nnected kva	21.2		MAX AMPS	/ PH				
		MAY VARY FROM CONNECTED			PERSITY AMPS			-					
		OF CODE DIVERSITIES		TOTAL D	IVERSITY KVA	20.3							
TY	YPE OF												2
		DESCRIPTION	VA	DEMAND FAC		DEMAND VA							
		CONTINUOUS	0.0	1.25	5	0.0							
		NON-CONTINUOUS	0.0	1.00	)	0.0							
	K	KITCHEN	2400.0	0.65	5	1560.0							
		RECEPTACLES	180.0	1.00	)	180.0							
	0	OTHER	17000.0	1.00	)	17000.0							
	k#	WECHANICAL _	1600.0	1.00	)	1600.0							
		TOTAL	0.0	)	-	20340.0	ı						

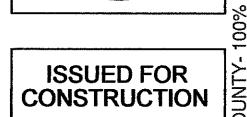
				EX	ISTING P	ANEL "IA"	" SCHEDU	JLE		Section State to the Company of the			
		SERVICE:	240/120	VOLT	1	PHASE		3 WIRE	<del>i i ji ili da ili da a a a da ila a a a di ila a a da ila a da il</del>		ENCLOSURE: NEMA 1		
		SIC:	22,000	AIC .	main:	225	AMPS	TYPE:	MLO		TYPE: RECESS MOUNTED		
LC	CATION	FIRST FLOOR MAINTENANCE ROOM			BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT		LOAD DESCRIPTION			O TO TO SECURITION OF THE PROPERTY OF THE PROP					· · · · · · · · · · · · · · · · · · ·	LOAD DESCRIPTION		CKT
NO.	TYPE		POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	NO.
1		LTS. 119 KIT.	4	20	800	1,600		800	20	1	LTS. MECH. RM 108	С	2
3	С	LTS. 109-111	1	20	800		1,600	800	20	1	LTS. HALL	С	4
5		LTS. 117	1	20	800	1,600		800	20	1	LTS. 113-114	С	6
7		RECPTS. 117	1	20	500		1,000	500	20	1	RECPTS. 114-113	R	8
9		RECPTS. 110	1	20	500	1,300		800	20	2	AC ROOF	¥	10
11		RECPTS. 112	4	20	500		1,300	800		and the same of th		M.	12
13		LTS. 106	1	20	800	1,300	<b>l</b>	500	20	99	RECPT.& EXT. FAN 104	R	14
15		LTS. 105	1	20	800		1,300	500	20	9	WATER COOLER	M	16
17		RECPTS. HALL	1	20	500	750		250	20	1	Ext. fan 2nd flr.	M	18
19		EXT. FAN LOBBY	1	20	250		500	250	20	1	Ext. fan 2nd flr.	M	20
21		EXT. FAN LOBBY	1	20	250	750		500	20	1	RM 108 OUTLETS (7 EA)	R	22
23		UNIT HEATERS	1	20	800		800	0			SPACE	0	24
		NDUITS SHALL BE IN ACCORDANCE WITH		CON	NECTED VA	7,300	6,500	)					
		L GENERAL NOTES #36 AND #46, UNLESS		CONN	ECTED AMPS	60.8		2			unbalance 2	11.0	
NOTED (		<del></del>		TOTAL CON	nected kva	13.8		MAX AMPS	/ PH				
DEMAND	LOADS	MAY VARY FROM CONNECTED		DIV	ersity amps	64.2		_					
LOADS E	BECAUSE	OF CODE DIVERSMES		TOTAL DI	versity kva	15.4	]						
	TYPE 0	F LOAD									200		
		DESCRIPTION	VA	DEMAND FAC	<b>TOR</b>	DEMAND VA							
	C	CONTINUOUS	6400.0	1.25		8000.0							
	N	NON-CONTINUOUS	0.0	1.00		0.0				-			
	K	KITCHEN	0.0	0.65		0.0							
	R	RECEPTACLES	3500.0	1.00		3500.0							
	0	OTHER	0.0	1.00		0.0							
	M	MECHANICAL	3900.0	1.00		3900.0	_						ł
		TOTAL	0.0	•	•	15400.0							į
			0										







REMODELING OF THE ASCARATE AN FOR THE EL PASO COUNTY 301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905



NO.	DATE:	REVISION:	
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DATE	: FEBRUA	ARY 17, 2014	E THE ASCADATE ANNEY FOR

HEET:

E12.0

ELECTRICAL EXISTING

						NEW PAN	vel "mdp" s	CHEDULE						
	10	CATION: BLECTRICAL ROOM	SERVICE: 480/277 SIC: 14,000		3 WARK: BUS:		AMPS AMPS	WAE TYPE: TYPE:	MCB COPPER		ENCLOSURE: TYPE: NONG BUS:	RECERSED MOUNTED	·	2004
WIRE / CONDUIT	CKT		LOAD DESCRIPTION				LOAD IN VA				LOAD DESCR		CKT	WIRE / CONDUIT
WINE / COILDON		CODE SERVICE	POLE	AMP	VA VA	PH "A"	PHE	PH "C"	VA [	ALEP	POLE		ODE NO.	
	1	N			6,173	6,173	3						0 2	
	3	N FUTURE ELEVATOR	3	45*	6,173		9,173		3,000		***************************************		M 4	
	5	N			6,173			9,173	3,000	15	3	ELECTRIC VENTER WHILL	¥ 6	er e
	7	N *SHUNT TRIP BREAKER			0	3,000			3,000				8 4	
	9	¥	<u> </u>		2,387		5,038		2,651				M 10	
3/4" C. WITH (3) #10 CU THIN	11	M ROOFTOP UNIT RTU-01	3	25	2,387			5,038	2,651	30	3	0.007TOP URIT RTU-04	W 12	3/4" C. WITH (3) #10 CU T
AND (1) \$10 CU EGC	13	4			2,387	5,038	8		2,651	I			¥ 14	AND (1) \$10 CU EGC
	15	u .			2,387		5,038		2,651			L.	W 16	
3/4" C. WITH (3) #10 CU THWN	17	M ROOFTOP UNIT RTU-02	3	25	2,387			5,036		30	3		¥ 18	3/4" C. WITH (3) #10 CU T
AND (1) #10 CU EGC	19			L	2,387	6,038			2,651				₩ 20	AND (1) #10 CU EGC
	21	M			2,651		5,302		2,651		_	I	¥ 22	
3/4" C. WITH (3) #10 CU THWN	23	M ROOFTOP UNIT RTU-03	3	30	2,651			5,302		30	3		¥ 24	3/4" C. WITH (3) #10 CU T
AND (1) #10 CU EGC	25	<u> </u>			2,651	5,309			2,651			1	¥ 26	AND (1) #10 CU EGC
	27	0	_		7,380		49,440		42,069	250	2		0 28	REFER TO RISER ON E11.
REFER TO RISER ON E11.0	29	O 30 KYA TRANSFORMER FOR IT SYSTEM	3	45	7,580	-		49,449	42,069				0 30	<b>.</b>
	31	0		<b></b>	6,610	6,610			<b>  </b>	1		l land	0 32	-
!		O SPACE		1			<u> </u>		<b></b>	1			0 34	ļ
	35	0		<u> </u>	<del>                                     </del>			U	<b> </b>			**************************************	0 38	
	37 39	O SPACE	1	ŀ	<b></b>		4		<b> </b>			1	0 40	u de la companya de l
	41	0 SPACE		l	-				<del> </del>	1			0 42	Į
		NO CONDUITS SHALL BE IN ACCORDANCE WITH		L	CONNECTED VA	31,160	73,968	73,908	<u> </u>	1			<u> </u>	Lancaria de la companya de la compan
		DECTRICAL GENERAL NOTES \$36 AND \$46, UNLESS			DESCRIPTION AMPS	1311			ĺ		67.89%	Unbalance %		
		THERMISE.			MINECIED KVA	179.2			MAX. AMPS					
		LOADS MAY VARY FROM CONNECTED	***************************************		VERSITY AMPS	112.0								
	LOADS B	ECAUSE OF CODE DIVERSITIES			DIVERSITY VA	31,160	73,998		ļ					
				TOTAL	DIVERSITY KVA	179.2	2 480.0	215.5	DIVERSITY AN	4P8				
	TYPE OF			VA		TOTAL	DEMAND		DIVERSITY VA		DIVERSITY			
		DESCRIPTION	PH "A"	PH B	PH "ር"	VA	FACTOR	PH "A"	PH "B"	PH "C"	WA			
		CONTINUOUS	0.0		.0 0.0 .6 6,172.6		) 1.25 9 1.00	6.33.6	0.0 6,172.5	0.0 6,172.6	0.0 18,517.9			
		Non-Continuous Kitchen	6,172,6 0.0								0.0			
		RECEPTACLES	0.0						0.0	0.0	0.0			
		OTHER	6,610.0			105,507.3				49,44B.7				
		MECHANICAL	18,377.2			55,131.5			18,377.2	18,377.2				
		TOTAL KVA	31,159.8			179,156.7		31,159,8		73,998.5				

					EMODEL P								
		SERVICE: SIC:	240/120 <b>22,00</b> 0	VOLT AIC	WAR:	PHASE 400	AMPS AMPS	WRE TYPE: TYPE:	MCB COPPER		ENCLOSURE: NEMA 1 TYPE: SURFACE MOUNTED		
	DEATHUR	PIRST PLOOR SERVICE ENTRANCE ROOM			BUS:	400	- AMP-3	TIPE	CUPPER		CROUNDING BUS: COPPER LOAD DESCRIPTION		CK
CKT	-	LOAD DESCRIPT		4445	T VA	PH "A"	PH "C"		T ALE	POLE	SERVICE	TYPE	I NO
NO.	TYPE	SERVICE	POLE	AMP			PHI C						
	0	MAIN FIRST FLOOR PANEL P-1	2	225	11,420	21,900		10,480	225	2	MAIN SECOND FLOOR PANEL P-2	<del>-</del>	╂
	0			·	11,990		21,610	9,620	<del>                                     </del>	<del> </del>	1410 DATE: 2 CERTIFIC COR		┺
1_	0	MAIN PANEL L-4, MARITENANCE ROOM	2	100	5,858	11,070		5,212	_  100	2	MARN PANEL L-2, SECOND FLOOR	<u> </u>	1 - 2
3	0				4,869		9,007	4,138	<del> </del>	<del> </del>		<u> </u>	1-1
5	0	MAIN PANEL L-3, FIRST FLOOR GYM	2	100	10,993	10,993	<del></del>	0	_  100	2	RELABEL AS "SPARE"	0	
7	0				9,558		9,558	0		<u> </u>		<u> </u>	1 8
9	0	RELABEL AS "SPARE"	2	30	0	0		0	_  50	2	RELABEL AS "SPARE"	0_	1 19
11	0			<u> </u>	0		0	0				<u> </u>	1
13	0	RELABEL AS "SPARE"	2	30	0	0		0		2	RELABEL AS "SPARE"	0	14
15	0				0		0	0		<u> </u>		0	11
17	0	SPACE			İ	C			<u> </u>	1	SPACE	0	1 11
19	0	SPACE					0				SPACE	0	2
21	0	SPACE				0					SPACE	0	Z
23	0	SPACE					0	1			SPACE	0	2
25	0	SPACE		1		0					SPACE	0	20
27	C	SPACE		T			0	1		]	SPACE	0	21
29	o	SPACE				0		1		1	SPACE	0	34
31	o	SPACE		1			0		1	1	SPACE	0	3
33	ō	SPACE		<del></del>		0	<del>1</del>	<b>†</b>	1	1	SPACE	0	3
35	ō	SPACE		<del>                                     </del>			0	†	<del>                                     </del>	1	SPACE	0	3
37		SPACE		<del> </del>	1	0	<del> </del>	<del>                                     </del>	1	1	SPACE	ō	1 3
39	ŏ	SPACE	<del></del>	·	<del></del>		0	<del>                                     </del>	<del>†                                    </del>	<del> </del>	SPACE	ō	4
41		SPACE		<del> </del>	<del>                                     </del>		<del> </del>	· <del> </del> · · · · · · · · · · · · · · · · · · ·	· <del>[</del>	<del> </del>	SPACE	<del>-</del>	4
		NOUTS SHALL BE IN ACCORDANCE WITH	L		NNECTED VA	43,963	40,17	K	<u> </u>	1			
					MECTED AMPS	366.4	4				Undalance %	8.6	
		L GENERAL NOTES #36 AND #46, UNLESS			NNECTED KVA	84.1		BOMA XAMPS	/ max		ONDALANCE A	6,6	•
	OTHERW				VERSITY AMPS	350.6		MAN WELD	/ PR				
		MAY VARY FROM CONNECTED					<b></b>						
DADS		OF CODE DWERSITIES		TUTAL (	IVERSITY KVA	84.	1						
	TYPE 0	FLOAD											
		DESCRIPTION	WA	DEMAND FA		DEMAND VA							
	C	CONTINUOUS	0.0	-		0.0							
	N	NON-CONTRUOUS	0.0			0.0							
	K	KITCHEN	0.0			0.0							
	R	RECEPTACLES	0.0		_	0.0	-						
	0	OTHER	84137.	3 1.0	0	84137.3	5						
	M	MECHANICAL	0.0	1.0	0 .	0.0	<u>)</u>						
		TOTAL.	84137.	₹		84137.3	₹						

					emodel p	ANEL "P1	" SCHED	ULE					
		SERVICE:	240/120		1	PHASE		3 WIRE			ENCLOSURE: NEMA 1		
		SIC:	22,000	AIC	MAIN:	225	AMPS	TYPE:	MCB		TYPE: RECESS MOUNTED		
	CATION:				BUS:	225	AUPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
CKT		LOAD DESCRIPT						<del>- </del>			LOAD DESCRIPTION		CX
	TYPE	the state of the s	POLE	ALEP	VA	PH "A"	PH "C"	<u>va</u>	AMP	POLE		TYPE	NO
1		RECEPT CLERK 114		20	540	1,260		720	20	1	RECEPT- OFFICE 118		1 2
3		RECEPT- LOBBY RESTROOMS AND ENC	1 1	20	1,160	L	2,240	1,080	20	1 1	RECEPT- OFFICES 119, 120		1.
5		RECEPT- LOBBY, ELEV MACH RM	1	20	680	1,940	<u> </u>	1,260	20	1 1	RECEPT- OFFICES 121, 122		6
7		RECEPT- ELEV SUMP PUMP	1	20	1,000		1,540	540	20	1	RECEPT- ROOM 123	R	8
9		RECEPT- RESTROOMS, JAN CLOSET	1	20	540	1,620		1,080	20	1 1	RECEPT- ROOM 123	R	10
31		BREAKROOM FRIDGE	1	20	1,250	ļ	1,750	500	20	1	IRRIGATION CONTROLLER RECEPT	R	12
13		RECEPT- BREAKROOM, ELEC RM	1	20	900	1,400		500	20	1	SPARE	R	14
15		RECEPT- BREAKROOM	1 1	20	360		1,620	1,260	20	1	RECEPT- OFFICES 126, 127	R	16
17		FIRE ALARM CONTROL PANEL	1	20	500	1,400	<u> </u>	900	20	1 1	RECEPT- OFFICE 125	R	18
19		RECEPT- OFFICES 132, 134	1	20	720		1,600	1,080	20	1 1	RECEPT- OFFICES 127, 128	R	20
21		RECEPT- OFFICES 133, 134	1	20	720	1,800	ļ	1,080	20	1	RECEPT- OFFICES 129, 130	R	22
23		CORRIDOR RECEPTACLES		20	540	<u> </u>	1,040	500	20	11	SPARE	0	24
25		SPARE	1	20	500	1,000	<u> </u>	500	20	1	SPARE	0	20
27		SPARE	1	20	500	1	1,000	500	20		SPARE	0	_28
29		SPARE	11	20	500	1,000		500	20	1	SPARE	0	30
31		SPARE	1	20	500		1,000	500	20	1	SPARE	0	32
33		SPACE				0	<u> </u>				SPACE	0	34
35	0	SPACE					0	<u> </u>		1	SPACE	0	36
37		SPACE		<u> </u>		0					SPACE	0	38
39	0	SPACE					0		1		SPACE	0	40
41	0	SPACE				0				i	SPACE	0	47
TRING AN	ND CO	NOUTS SHALL BE IN ACCORDANCE WITH		œ	NNECTED VA	11,420	11,99	0					
1.0 ELEC	CTRICAL	. General notes #36 and #46, unless		CON	NECTED AMPS	95.2					unbalance %	4.8	į
OTED OT	THERWI	SE.		TOTAL CO	KNECTED KVA	23.4	99.	S MAX AMPS	/ PH				
EMAND I	LOADS	MAY VARY FROM CONNECTED		DI	ERSITY AMPS	95.7	'						
DADS BE	ECAUSE	OF CODE DIVERSITIES		TOTAL D	IVERSITY KVA	23.0							
T	YPE O	F LOAD		-									
		DESCRIPTION	AV	DEMAND FAC	TOR	DEMAND VA							
	C	CONTINUOUS	0.0	1.25	5	0.0	)						
	N	NON-CONTRIDOUS	0.0	1.00	•	0.0	•						
	K	KITCHEN	1250.0	0.63	5	812.5	i						
	R	RECEPTACLES	17160.0	1.00	)	17160.0	)						
	0	OTHER	5000.0		)	5000.0	•						
	ŭ	MECHANICAL	0.0			0.0							
	-	TOTAL	0.0		-	22972.5							

				R	EMODEL PA	NEL P2	" SCHEDU	JLE					
CKT	OCATION	SERVICE: SIC: : SECOND FLOOR CORRIDOR LOAD DESCRIPTI	240/120 22,000		MAIN: BUS:	PHASE 225 225		WIRE TYPE: TYPE:	MCB COPPER		ENCLOSURE: NEMA 1 TYPE: RECESS MOUNTED GROUNDING BUS: COPPER LOAD DESCRIPTION		
NO.	TYPE	SERVICE SERVICE	POLE	AMP	T VA	PH "A"	PH "C"	₩ VA	AMP	POLE	SERVICE	TYPE	
1	R	RECEPT- WATING 201	1	70	540	1.040	1111	500	20	1	SPARE	0	╁
3	R	RECEPT- AG DIRECTOR 203	<del>                                     </del>	20	900	-,,,-,-,	1,400	500	20	<del>                                     </del>	SPARE		+
5	R	RECEPT- RESTROOMS, EWC	<del></del>	20	1,160	1,880	******	720	20	<del>                                     </del>	RECEPT - OFFICE 213		+
<del>;</del>	R	RECEPT- CORRIDOR	<del></del>	20	540		1,440	900	20	<del>† i</del> –	RECEPT- OFFICES 214, 215		+
9	R	RECEPT- CLASSROOM 211	+ ;	20	900	1,800	1,110	900	20	1	RECEPT- OFFICES 216, 217		+
11	R	RECEPT- CLASSROOM 212	<del>-  </del>	20	1,080	1,000	2,160	1.080	20	<del>                                     </del>	RECEPT- OFFICES 218, 221, 222		
13	Ö	SPARE	<del>                                     </del>	20	500	1,760		1,260	20	1	RECEPT- OFFICES 223, 224, 225		
15	⊢ŏ-	SPARE	- <del>                                     </del>	20	500		1,400	900	20	1 1	RECEPT- OFFICES 226, 227		╅
17	Ö	SPARE	<del>  </del>	20	500	1,500	1	1,000	20	1 1	RECEPT- ROOM 229		+
19	ŏ	SPARE	<del>                                     </del>	20	500		1,220	720	20	1	RECEPT- OFFICE 220		+
<del>12</del> 21	Ö	SPARE	<del></del>	20	500	1,500	1	1,000	20	1 1	RECEPT- ROOM 228		1
23	ŏ	SPARE	<del>                                     </del>	20	500		1,000	500	20	1	SPARE	0	+
25	<del>  ö</del>	SPARE		20	500	1,000		500	20	1	SPARE		†
27	ō	SPARE	<u> </u>	20	500		1,000	500	20	1 i	SPARE	0	+
29	ō	SPACE		<del> </del>		0		1		1	SPACE	0	+
31	ō	SPACE		<del>                                     </del>	<del> </del>		0	<del>                                     </del>	<b>†</b>		SPACE	0	7
33	ō	SPACE		1	<u>-</u>	0		1	1	1	SPACE	0	T
35	ō	SPACE			1		0	1	<b>-</b>	1	SPACE	0	T
<del>57</del>	ō	SPACE				0		1	1	1	SPACE	0	T
39	ō	SPACE		<del> </del>			0				SPICE	0	T
41		SPACE	_ <del> </del>		11	O			1	1	SPACE	0	7
		NOUTS SHALL BE IN ACCORDANCE WITH	_	CO	MINISCTED VA	10,480	9,620	7		<del>1</del>			
		L GENERAL NOTES #36 AND #46, UNLESS		CON	NECTED AMPS	87.3	80.2	2			Unralance %	8.2	2
	OTHERW			TOTAL CO	NINECTED KVA	20.1	87.2	MAX AMPS	/ PH				
MANE	LOADS	MAY VARY FROM CONNECTED		Df	VERSITY AMPS	83.8		-	-				
ADS	BECAUSE	OF CODE DIVERSITIES		TOTAL D	IVERSITY KVA	20.1	1						
	TYPE O	F LOAD			· - · · ·								
		DESCRIPTION	VA	DEMAND FA	CTOR	AV CHALCEC							
	C	CONTRIUOUS	0.0	1.2	5	0.0							
	N	MON-CONTINUOUS	0.0	1.0	0	0.0	•						
	ĸ	KITCHEN	0.0	0.6	5	0.0	•						
	R	RECEPTACLES	13600.0	1.00	9	13600.0	}						
	0	OTHER	6500.0	1.00	9	6500.0	<b>;</b>						
	M	MECHANICAL.	0.0	1.0	) _	0.0	<u>1</u>						
		TOTAL	0.0		•	20100.0	<del>,</del>						

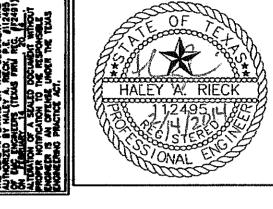
and the same of th	Avenueseite	SENTE:	360/180		EMODEL P	PHASE		3 WARE			DICLOSURE: NEW 1		
		SC	22.000	AE.	MAIN:	225	AMPS	TYPE:	MAO		TYPE: RECESS MOUNTED		
2.6	CATON:		e e constant	Page 1	BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER		
KT	PLANELLE.	LOAD DESCRIPTION			6U3.	1 200	MAT-3	1100	COTTO	<del></del>	LOAD DESCRIPTION		
<b>10.</b>	TYPE	SERVICE SERVICE	POLE	I AMP	T VA	PH "A"	PH "C"	- VA	ALSP	POLE	SERVICE	TYP	xe T
*		LIGHTS ROOMS 211-212, 231, MEN'S	FURE	20	1,398	1,898	FR C	500	20	1 1	SPAR		
3		LIGHTS ROOMS 201-208, WOMEN'S	· · · · · · · · · · · · · · · · · · ·	20	1,307	1 1,2090	1.807	500	20	<del> </del>	SPAR		
5		LIGHTS 2ND FL CORRIDOR, STARS	**************************************	20 20	885	1,385	1,507	500	20	<del> </del>	· SPAR		_
<del>,</del>		UCHTS NORTH OFFICES	<del>-</del>	20	1.830	1_'	2,330	500	20	1 1	SPAR		$\rightarrow$
9	***************************************	LIGHTS NORTH OFFICES- OPEN AREA	<u>, , , , , , , , , , , , , , , , , , , </u>	20	1.430	1,930	2,350	500	20	<del>                                     </del>	SPAR		
1		SAKE		<u> </u>	1	1.32	- 0	<u> </u>	<del>  ~</del>	-	SPACE SPACE		_
3		SPACE		<del> </del>	-	0	<del></del>	<del></del>	<del> </del>	-	SPAC		_
5		SPACE	**************	<del> </del>	<del>]</del>	<del>  '</del>	C	<del> </del>	<del> </del>	<del> </del>	SPAC		_
7		SPACE		-	1		<del>'</del>	<del></del>	<del> </del>	<del></del>	SPAC		_
9		SPACE		<del> </del>	<del></del>	<del></del>	0	1	<del></del>	<del> </del>	SPAC		
21		SPACE		<del> </del>	<del> </del>		<del></del>	<del></del>	<del> </del>	·	SPAC		
23		SPACE		<del> </del>	+	<del>                                     </del>	0	<del>-}</del>	1	<del> </del>	SPAC		
		DUITS SHALL BE BY ACCORDANCE WITH			MECTED VA	5,212		***************************************	J	<u> </u>			_
		CEDERAL NOTES \$36 AND \$45, UNLESS			MICTED AMPS						UMBALANCE	£ 26	0.6
	DHERES				MIRCTED KVA			HAN AMPS	/ P38			_	
		UARY VARY FROM COMMETTED			PERSONY AMPS				,				
		OF CODE DWERSTIES			IVERSITY KVA								
THE PARTY OF THE	TYPE OF			39244					######################################	eniparquiperantesiament en sommana	vaccareorumano		-
		DESCRIPTION	VA	DEMAND FA	TOR	DEMAND VA							
		CONTINUOUS	6849.8			8562_3							
	-	tions-contenious	0.0			0.0							
		MOEN	0.0			0.0							
		RECEPTACIES	0.0			0.0							
	O	CTHEST	2500.0		-	2500.0							
	t.s	LECHARCAL	0.0		-	0.0							
	-44	TOTAL	0.0	a	•	11062.3	•				•		
			••••	,									

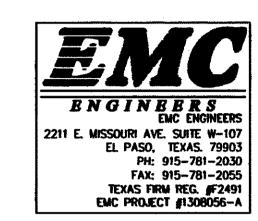
				R	emodel P	ANEL 13	" SCHEDU	JLB					
	MENSON DESCRIPTION OF THE PERSON OF THE PERS	SERVEE:	240/120	VOLT	1	PHASE	5	WESE.			ENCLOSURE: NEMA 1		
		SIC:	22,000	AC	MARK:	225	AMPS	TYPE:	MID		TYPE: RECESS MOUNTED		
L	ocatecil	FEST FLOOR CYM			BUS:	226	AMPS	TYPE:	COPPER		GROUMDING BUS: COPPER		
CKT		LOAD DESCRIPTION	DAN								LOAD DESCRIPTION		CK
NO.	TYPE	SERVICE	POLE	AMEP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE	TYPE	
1	С	LIGHTING CUENG, VTC WORKSTNS	1	20	1,418	1,668		250	20	1	JUNCTION BOX VAULT	0	2
3	0	SPARE	1	20	500		750	250	20	1	JUNICTION BOX SECURE STORAGE		4
5	C	EXTERIOR PARKING LOT LIGHTING	2	20	1,250	2,530		1,080	20	1	RECEPT- OFFICES 106,107		6
7	С				1,250		2,150	900	20	1	RECEPT DIRECTOR 104, 105		8
9	C	EXTERIOR PARKING LOT LIGHTING	2	20	1,250	1,750		500	20	8	RECEPT- EAST WALL, OPEN AREA		10
81	C		_L_	\$	1,250		2,150	900	20	8	RECEPT- HOTEL/BEVERIGE		12
13	C	STATES EXTENSES TICHLARC	1	20	690	1,410		720	20	1	RECEPT- WEST WALL, OPEN AREA	R	14
15	B	RECEPT- COFFEE AREA	1	20	610		1,150	540	20	1	RECEPT- WEST WALL, OPEN AREA	R	16
17	C	LICHTING CUENG, VTC WORKSTAS	1	20	1,418	2,138		720	20	1	VTC WORKSTATION RECEPTACLES	R	16
19	C	LIGHTING CUENG, VTC WORKSTRS	1	20	1,418		2,138	720	20	1	VTC WORKSTATION RECEPTACLES	R	20
21	C	LIGHTING DOWNLIGHTS, VAULT	1	20	477	1,197		720	20	1	VTC WORKSTATION RECEPTACLES	R	22
23	0	SPARE	1	20	500		1,220	720	20	1 1	VTC WORKSTATION RECEPTACLES	R	24
25	0	SPARE	1	20	500	500				1	SPACE	0	26
27	0	SPACE			0		0		1	1	SPACE	0	28
29	0	SPACE		1	0	0			- 1 curcus - manager - crown - crown		SPACE	0	30
REDIG A	AND COM	MOUNTS SHALL BE ON ACCORDANCE WITH	······································	Ċ	MUNICIPAL VA	10,993	9,550						
1.0 ELI	ECTRICAL	L CENERAL NOTES #35 AND #46, UNLESS		CON	MECTED AMPS	91.6	79.7	ī			Undalance %	13.1	ı
OTED (	OTHERWI	SE.		TOTAL CO	MINECTED KVA	20.6	91.6	MAX AMPS	/ PH				
EMAND	LOADS	MAY VARY FROM COMMECTED		DE	PERSITY AMPS	96.5							
OADS E	BECAUSE	OF CODE DIVERSITIES		TOTAL I	EVERSITY KVA	23.2	1						
	TIPE O	F LOAD	H1111111111111111111111111111111111111						Artes and the Control of the Control				
		DESCRIPTION	VA	DEMAND FA	CTOR	AV CHAMBO							
	C	CONTRACOUS	10420.6	1.2	5	13025.8	}						
	23	LON-CONTABIOUS	0.0			0.0							
	22	KITCHEN	0.0			0.0							
	13	RECEPTACLES	8130.0			8130.0							
	0	OTHER	2000.0		, D	2000.0							
	2.9	NECHANICAL	0.0		-	0.0							
		TOTAL	0.0	45	•	23155.8							
		THE PETER				24,000	•						

				R	MODEL P	ANKL LA	SCHEDE	jik						
-		SERVICE:	240/120	VOLT	1	PHASE		WIRE			enclosure: Newa 1			
		SIC:	22,000	ASC	MAIN:	225	AMPS	TYPE:	MIO		TYPE: RECESS WOUNTED			
	CATRO?	FIRST FLOOR MAINTENANCE BOOM			BUS:	225	AMPS	TYPE:	COPPER		GROUNDING BUS: COPPER			
CKT		LOAD DESCRIPTION									LOAD DESCRIPTION			CKT
NO.	TYPE	SERVICE	POLE	AMP	VA	PH "A"	PH "C"	VA	AMP	POLE	SERVICE		TYPE	NO.
1		LIGHTS- OFFICES 125-130 (EMFORCE)	1	20	1,136	1,636	<u> </u>	500	20	1 1		SPARE		2_
3		LICHTS- OFFICES 119-124 (ACCTG)	1	20	1,621		2,121	500	20	1 1		SPARE		4
5		LICHTS- OFFICES 132-137, BREROOM	1	20	1,711	2,211		500	20	1		SPARE		6
7		luchts- 1st fl common, restrooms	1	20	1,675		2,175	500	20	1 1		SPARE		8
9		LIGHTS LOBBY AREAS, RESTROOMS	1	20	1,511	2.011	<u> </u>	500	20	1 1		SPARE		10
11		LIGHTS OFFICE 118			573		573	<u> </u>		<u> </u>		SPACE		12
13		SPACE				0		<u></u>	1	<u> </u>		SPACE	——	14
15		SPACE		<u> </u>			0	1	.]			SPACE		16
17	~	SPACE		<u> </u>		0			<u> </u>			SPACE		18
19	-	SPACE					0					SPACE		20
21	No.	SPACE				0						SPACE		22
<u>23 [</u>		SPACE					0	<u> </u>	L	1		SPACE	<u> </u>	24
		NUMS SHALL BE BY ACCORDANCE WITH			CHECTED VA	5,858								
		CENERAL NOTES #35 AND #45. UNLESS			HICTED AMPS		40.6		•			untalance x	10.0	
	THERWIS				EXECTED KVA	10.7		MAX AMPS	/ PH					
		MAY VARY FROM CONNECTED			ERSTTY AMPS		l							
		OF CODE DIVERSITIES	***************************************	TOTAL D	ARBRITA KAY	12.8	<u> </u>				**************************************			
Y	TYPE OF													
		DESCRIPTION	VA	DEMAND FAC		AN CHARGED								
		CONTINUOUS	8226.9			10283.6								
		TEDH-CONTRACOUS	0.0			0.0								
		COTCHEN	0.0			0.0								
		RECEPTACLES	0.0			0.0								
		OTHER	2500.0			2500.0								
	£\$	MECHANICAL	0.0	1.00	)	0.0								
		TOTAL	0.0	ī		12783.6	-							

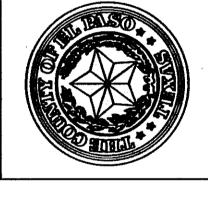
	ALIAN DE COMMON PARA	en commence de la co	MIII 0000 000 000 000 000 000 000 000 00						. "IT" SCHE	DULE	***************************************							
					208/120			PHASE	•	WIFE			ENCLOSURE:					
		APATTA	: SEECTESCAL ROOM	SIC:	14,000	rec	HAD:		AMPS	TYPE:	MCB COPPER	CDC	NDING BUS:	SURPACE MOUNTER	,			
WIRE / CONDUIT	CKT	KAIRW	SLEATERIAL ROUSE	I CAR	DESCRIPTION		BUS:	100	LOAD BY VA	177-2	COPPER		LOAD DESCRI				CKT	WARE / CONDUIT
TIME / CONDON		CODE	SERVICE		POLE	AMP	VA	PH "A"	PH 'B'	PH "C"	VA	AMP	POLE		SERVICE	CODE	NO.	ww.c , co
	1	R					1,500	2,500		**************************************	1.000	20	1		QUAD RECEPT- 1ST FLOOR IT CLOSET		2	
	3	R	IT EQUIPMENT - 3 PHASE (CONFIRM CIRCUIT SIZE)	i	3	20	1,500		2.500		1,000	20	1		QUAD RECEPT- 1ST FLOOR IT CLOSES	4	4	
	5			1			1,500		***************************************	2.603	1,000	20	1		QUAD RECEPT- 2ND FLOOR IT CLOSET	R	6	
	7			1			1,500	2,500			1,000	20	1		QUAD RECEPT- 2ND FLOOR IT CLOSET	R	8	
The second secon	9	R	IT EQUIPMENT - 3 PHASE (CONFIRM CIRCUIT SIZE)	1	3	20	1,500	THE RESERVE THE PROPERTY OF THE PERSON OF TH	3,500		2,000	30	1		IT EQUIPMENT (CONFIRM CIRCUIT SIZE)	R	10	(2)#10CU THIMM#10CU ECC
######################################	11	R	1			l. Î	1,500	majori sojotja argania monomi		3,500	2,000	30	1		IT EQUIPMENT (CONFIRM CIRCUIT SIZE)	R	12	(2)#10CU THRN&#10CU EGG</td></tr><tr><td>A TOTAL CONTROL OF THE PROPERTY OF THE PROPERT</td><td>13</td><td>R</td><td>IT EQUIPMENT (CONFIRM CIRCUIT SIZE)</td><td></td><td>1</td><td>20</td><td>1,500</td><td>3,600</td><td></td><td></td><td>2,000</td><td>30</td><td>1</td><td></td><td>IT EQUIPMENT (CONFIRM CIRCUIT SIZE)</td><td>R</td><td>14</td><td>(2)#10CU THINKE#10CU EGG</td></tr><tr><td></td><td>15</td><td>R</td><td>IT EQUIPMENT (CONFIRM CIRCUIT SIZE)</td><td></td><td>1</td><td>20</td><td>1,500</td><td></td><td>3,500</td><td></td><td>2,000</td><td>30</td><td>1</td><td></td><td>IT EQUIPMENT (CONFIRM CIRCUIT SIZE)</td><td>R</td><td>16</td><td>(2)#10CU THUNAH#10CU EGG</td></tr><tr><td></td><td>17</td><td>R</td><td>IT EQUIPMENT (CONFIRM CIRCUIT SIZE)</td><td></td><td>1</td><td>20</td><td>1,500</td><td></td><td></td><td>2,500</td><td>1,000</td><td>20</td><td>1</td><td></td><td>SPARE</td><td></td><td>18</td><td></td></tr><tr><td></td><td>19</td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td><td>1,000</td><td></td><td></td><td>1,000</td><td>20</td><td>1</td><td></td><td>SPARE</td><td></td><td>20</td><td></td></tr><tr><td></td><td>21</td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>22</td><td></td></tr><tr><td></td><td>23</td><td></td><td>SPACE</td><td></td><td></td><td></td><td>i i</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>24</td><td></td></tr><tr><td></td><td>25_</td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>26</td><td></td></tr><tr><td></td><td></td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>28</td><td></td></tr><tr><td></td><td>29_</td><td></td><td>SPACE</td><td></td><td></td><td></td><td></td><td>nandamur-ontrodesson<del>essaltunesson</del></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td>SPACE</td><td></td><td>30</td><td></td></tr><tr><td></td><td></td><td></td><td>NDUITS SHALL BE IN ACCORDANCE WITH</td><td></td><td></td><td></td><td>ENTECTIED VA</td><td>9,500</td><td>9,500</td><td>8,500</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>L CENERAL NOTES #36 AND #46, UNLESS</td><td></td><td></td><td></td><td>SCTED AMPS</td><td>79.2</td><td></td><td>70.8</td><td colspan=2>i</td><td colspan=2>10.63% Unbalance S</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>NOTED</td><td></td><td></td><td>_</td><td></td><td>Total Control of the /td><td>MECTED KVA</td><td>27.5</td><td></td><td></td><td>MAX. AMPS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>MAY VARY FROM COMMECTED</td><td></td><td></td><td></td><td>RESTLY AMPS</td><td>61.6</td><td></td><td>55.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>LIMES</td><td>RUNN</td><td>OF CODE DIVERSITIES</td><td></td><td></td><td></td><td>WEESTHY VA</td><td>7,380</td><td>7,3<b>60</b> 208.0</td><td>6,610</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>UTAL DE</td><td>ERWYY KVA</td><td>21.4</td><td>2000)</td><td>583</td><td>ENVERSITY A</td><td><b>2</b>3</td><td><del> </del></td><td></td><td></td><td></td><td>•</td><td></td></tr><tr><td></td><td>TYPE O</td><td>TOAD:</td><td></td><td></td><td></td><td>VA</td><td></td><td>TOTAL</td><td>CHAMO</td><td></td><td>DIVERSITY VA</td><td></td><td>DIVERSITY</td><td></td><td></td><td>,</td><td></td><td></td></tr><tr><td></td><td></td><td>DESCRI</td><td></td><td></td><td>PH "A"</td><td>DH B.</td><td>PH "C"</td><td>es.</td><td>FACTOR</td><td>PH "A"</td><td>PH "B"</td><td>PH "C"</td><td>VA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>C</td><td>CONTIN</td><td></td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.25</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>N</td><td>NON-C</td><td>ONTRADOUS</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1,00</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>ĸ</td><td>KITCHE</td><td></td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.65</td><td>0.0</td><td>0.0</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>25</td><td>RECEPT</td><td>ACLES</td><td></td><td>9,500.0</td><td>9,500.0</td><td>8,500.0</td><td>27,500.0</td><td>1.00</td><td>7,380.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>0</td><td>OTHER</td><td></td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.00</td><td>0.0</td><td></td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>£\$</td><td><b>LECHA!</b></td><td>ecal.</td><td>_</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.00</td><td>0.0</td><td>0.0</td><td></td><td>0.0</td><td>•</td><td></td><td></td><td></td><td></td></tr></tbody></table>







REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY 301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905



ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:	
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DATE	: FEBRU	ARY 17, 2014	-

E12.1

NEW ELECTRICAL PANEL SCHEDULES