



Effective 3/01/2022

**Please check the appropriate box(es) and refer to supplemental forms for submittal requirements. All fees must be paid at the time of application.**

|  |  |  |
|--|--|--|
| <b>SUBDIVISIONS</b>  | <input type="checkbox"/> Final Sign off of EPC Site Plan(s) (Forms P2)     | <input type="checkbox"/> Extension of IIA: Temp. Def. of SW (Form V2)        |
| <input type="checkbox"/> Major – Preliminary Plat (Forms S & S1)   | <input type="checkbox"/> Amendment to Site Plan (Forms P & P2)             | <input type="checkbox"/> Vacation of Public Right-of-way (Form V)            |
| <input type="checkbox"/> Major – Bulk Land Plat (Forms S & S1)   | <b>MISCELLANEOUS APPLICATIONS</b>  | <input type="checkbox"/> Vacation of Public Easement(s) DRB (Form V)         |
| <input type="checkbox"/> Extension of Preliminary Plat (Form S1)   | <input type="checkbox"/> Extension of Infrastructure List or IIA (Form S1) | <input type="checkbox"/> Vacation of Private Easement(s) (Form V)            |
| <input type="checkbox"/> Minor Amendment - Preliminary Plat (Forms S & S2)   | <input type="checkbox"/> Minor Amendment to Infrastructure List (Form S2)  | <b>PRE-APPLICATIONS</b>  |
| <input type="checkbox"/> Minor - Final Plat (Forms S & S2)   | <input type="checkbox"/> Temporary Deferral of SW (Form V2)                | <input checked="" type="checkbox"/> Sketch Plat Review and Comment (Form S2) |
| <input type="checkbox"/> Minor – Preliminary/Final Plat (Forms S & S2)   | <input type="checkbox"/> Sidewalk Waiver (Form V2)                         | <input type="checkbox"/> Sketch Plan Review and Comment (Form P2)            |
| <b>SITE PLANS</b>  | <input type="checkbox"/> Waiver to IDO (Form V2)                           | <b>APPEAL</b>  |
| <input type="checkbox"/> DRB Site Plan (Forms P & P2)  | <input type="checkbox"/> Waiver to DPM (Form V2)                           | <input type="checkbox"/> Decision of DRB (Form A)                            |
| <b>BRIEF DESCRIPTION OF REQUEST</b>  |  |  |
| QMD, LLC would like to develop this site for commercial purposes, constructing facilities and leasing space to various vendors for display and sales of arts and crafts. |  |  |

|  |                       |                                    |
|--|-----------------------|------------------------------------|
| <b>APPLICATION INFORMATION</b>   |                       |                                    |
| Applicant/Owner: QMD, LLC / Richard Dobbs  |                       | Phone: 505-898-3488                |
| Address: 9445 Coors Blvd NW  |                       | Email: richard@suncountryplaza.com |
| City: Albuquerque  | State: NM             | Zip: 87114                         |
| Professional/Agent (if any): John Tansey, Architect PA   |                       | Phone: 505-235-1879                |
| Address: P.O. Box 90275  |                       | Email: jrtansey@gmail.com          |
| City: Albuquerque  | State: NM             | Zip: 87199                         |
| Proprietary Interest in Site:  | List all owners:      |                                    |
| <b>SITE INFORMATION (Accuracy of the existing legal description is crucial! Attach a separate sheet if necessary.)</b> |                       |                                    |
| Lot or Tract No.: A  | Block:                | Unit:                              |
| Subdivision/Addition:  | MRGCD Map No.:        | UPC Code:                          |
| Zone Atlas Page(s): C-13-Z   | Existing Zoning: MX-M | Proposed Zoning:                   |
| # of Existing Lots: 1  | # of Proposed Lots:   | Total Area of Site (Acres):        |
| <b>LOCATION OF PROPERTY BY STREETS</b>   |                       |                                    |
| Site Address/Street: 4349 Irving NW  | Between: Coors Blvd   | and: Eagle Ranch Road              |
| <b>CASE HISTORY (List any current or prior project and case number(s) that may be relevant to your request.)</b>       |                       |                                    |

I certify that the information I have included here and sent in the required notice was complete, true, and accurate to the extent of my knowledge.

|                             |  |
|-----------------------------|--|
| Signature:                  | Date: Nov. 7, 2022   |
| Printed Name: RICHARD DOBBS | <input type="checkbox"/> Applicant or <input type="checkbox"/> Agent |

**FORM S2: SUBDIVISION OF LAND – MINOR ACTIONS**

*Please refer to the DRB minor case schedule for meeting dates and deadlines. Your attendance is required.*

**SKETCH PLAT REVIEW AND COMMENT**

Interpreter Needed for Hearing? \_\_\_\_\_ if yes, indicate language: \_\_\_\_\_

- A *Single* PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other on-line resources such as Dropbox or FTP. PDF *shall be organized with the Development Review Application and this Form S2 at the front followed by the remaining documents in the order provided on this form.*
- Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ Letter describing, explaining, and justifying the request
- \_\_\_ Scale drawing of the proposed subdivision plat
- Site sketch with measurements showing structures, parking, building setbacks, adjacent rights-of-way, and street improvements, if there is any existing land use

**MAJOR SUBDIVISION FINAL PLAT APPROVAL**

Interpreter Needed for Hearing? \_\_\_\_\_ if yes, indicate language: \_\_\_\_\_

- \_\_\_ A *Single* PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other on-line resources such as Dropbox or FTP. PDF *shall be organized with the Development Review Application and this Form S2 at the front followed by the remaining documents in the order provided on this form.*
- \_\_\_ Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ Proposed Final Plat
- \_\_\_ Design elevations & cross sections of perimeter walls
- \_\_\_ Landfill disclosure and EHD signature line on the plat if property is within a landfill buffer

**SUBDIVISION OF LAND – MINOR (PRELIMINARY/FINAL PLAT APPROVAL)**

Interpreter Needed for Hearing? \_\_\_\_\_ if yes, indicate language: \_\_\_\_\_

- \_\_\_ A *Single* PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other on-line resources such as Dropbox or FTP. PDF *shall be organized with the Development Review Application and this Form S2 at the front followed by the remaining documents in the order provided on this form.*
- \_\_\_ Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ Letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-6(K)
- \_\_\_ Sites 5 acres or greater: Archaeological Certificate in accordance with IDO Section 14-16-6-5(A)
- \_\_\_ Site sketch with measurements showing structures, parking, building setbacks, adjacent rights-of-way, and street improvements (to include sidewalk, curb & gutter with distance to property line noted) if there is any existing land use
- \_\_\_ Sidewalk Exhibit and/or cross sections of proposed streets
- \_\_\_ Proposed Infrastructure List, if applicable
- \_\_\_ Required notice with content per IDO Section 14-16-6-4(K)
- \_\_\_ Office of Neighborhood Coordination inquiry response and proof of emailed notice to applicable Neighborhood Association representatives, copy of notification letter, completed notification form(s), and proof of additional information provided in accordance with IDO Section 6-4(K)(1)(b)
- \_\_\_ Sensitive Lands Site Analysis for new subdivisions of land in accordance with IDO Section 5-2(C)
- \_\_\_ Landfill disclosure and Environmental Health Department signature line on the plat if property is within a landfill buffer

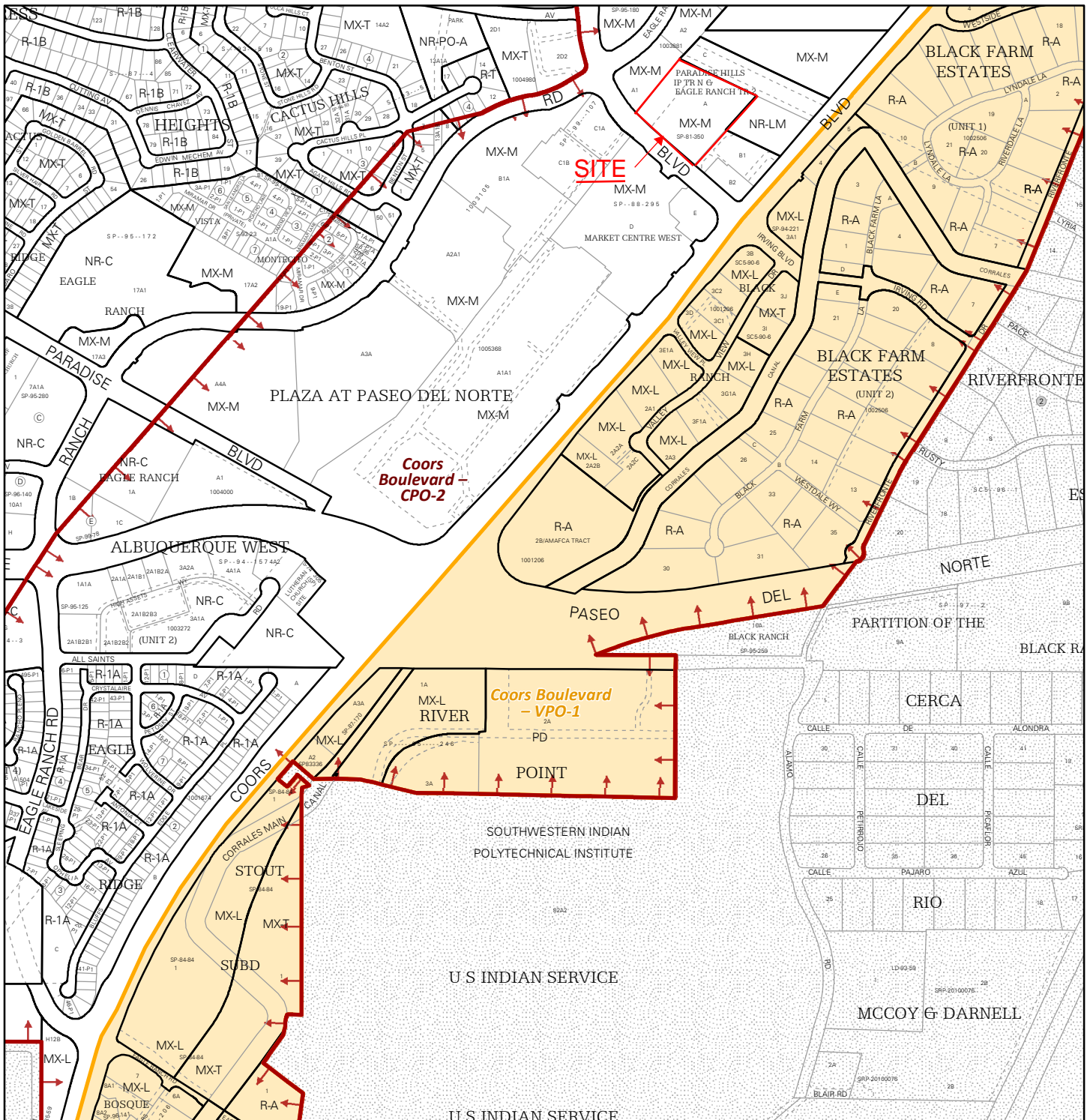
**Note: Any application that requires major public infrastructure must be processed as a Subdivision of Land - Major. See Form S1.**

**MINOR AMENDMENT TO PRELIMINARY PLAT / INFRASTRUCTURE LIST**

Interpreter Needed for Hearing? \_\_\_\_\_ if yes, indicate language: \_\_\_\_\_


- \_\_\_ A *Single* PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other on-line resources such as Dropbox or FTP. PDF *shall be organized with the Development Review Application and this Form S2 at the front followed by the remaining documents in the order provided on this form.*
- \_\_\_ Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ Letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(X)(2)
- \_\_\_ Proposed Amended Preliminary Plat, Infrastructure List, and/or Grading Plan
- \_\_\_ Original Preliminary Plat, Infrastructure List, and/or Grading Plan
- \_\_\_ Infrastructure List, if applicable

**Note: Any application that does not qualify as a Minor Amendment in IDO Section 14-16-6-4(X) must be processed as a Major Amendment. See Form S1.**

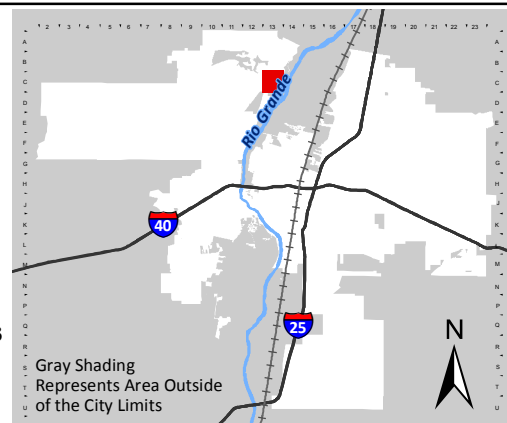


For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

## IDO Zone Atlas May 2018



IDO Zoning information as of May 17, 2018  
The Zone Districts and Overlay Zones  
are established by the  
Integrated Development Ordinance (IDO).



Gray Shading  
Represents Area Outside  
of the City Limits

Zone Atlas Page:  
**C-13-Z**

- Easement
- Escarpment
- Petroglyph National Monument
- Areas Outside of City Limits
- Airport Protection Overlay (APO) Zone
- Character Protection Overlay (CPO) Zone
- Historic Protection Overlay (HPO) Zone
- View Protection Overlay (VPO) Zone

0 250 500 1,000 Feet

# IRVING VILLAGE

## 4349 IRVING BLVD NW

### ALBUQUERQUE, NM

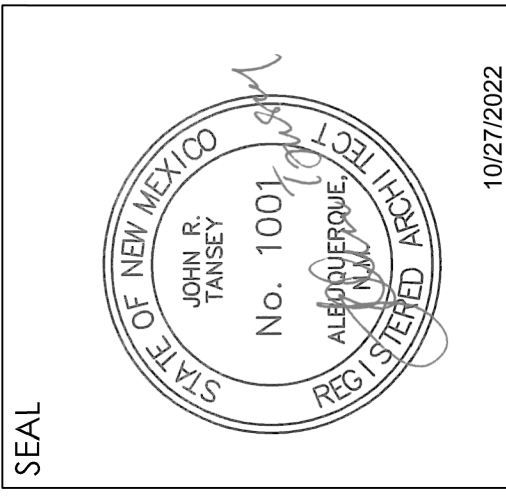


PROJECT TEAM:  
 ARCHITECT: JOHN TANSEY ARCHITECT PA  
 SURVEYOR: THE SURVEY OFFICE LLC  
 ELECTRICAL ENGINEER: INDUSTRIAL ENGINEERING INC.

INDEX TO DRAWINGS:  
 SHEET NUMBER TITLE  
 G101 TITLE SHEET  
 AS101 ARCHITECTURAL SITE PLAN  
 S-100 SITE SURVEY  
 E-000 ABBREVIATIONS, SYMBOLS & NOTES  
 E-101 ELECTRICAL SITE PLAN  
 E-201 ELECTRICAL SCHEDULES & DETAILS  
 E-301 ELECTRICAL SPECIFICATIONS

JOHN TANSEY  
 ARCHITECT PA

P.O. BOX 90275  
 Albuquerque, NM 87199  
 505-235-1879



PROJECT

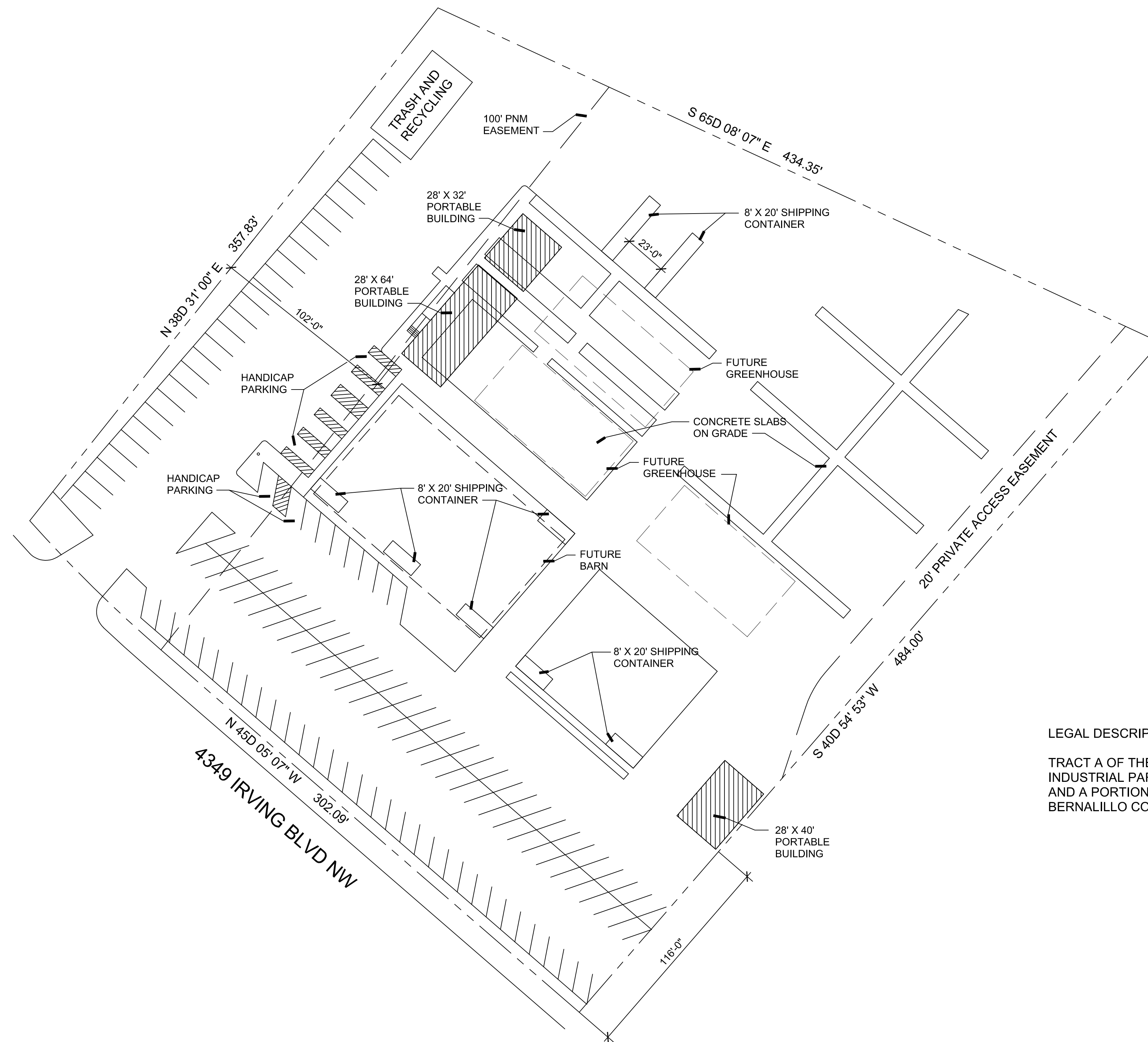
IRVING VILLAGE  
 4349 IRVING BLVD NW  
 ALBUQUERQUE, NEW MEXICO

| REVISIONS | DATE | DESCRIPTION |
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CLIENT PROJ #:  
 ARCHT PROJ #:  
 DRAWN BY: JT  
 CHECKED BY: JT  
 DATE: 7/25/2022

SHEET TITLE  
 TITLE SHEET

G101



LEGAL DESCRIPTION:

TRACT A OF THE SUMMARY PLAT OF TRACT N, PARADISE HILLS INDUSTRIAL PARK, AND A PORTION OF TRACT 2 OF EAGLE RANCH AND A PORTION OF A 100' PNM EASEMENT, PARADISE HILLS, BERNALILLO COUNTY, NEW MEXICO

SITE PLAN

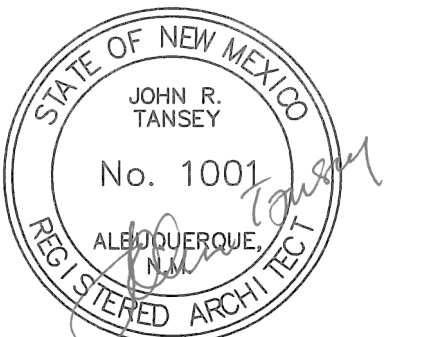
1" = 40'-0"



JOHN TANSEY  
ARCHITECT PA

P.O. BOX 90275  
Albuquerque, NM 87199  
505-235-1879

SEAL



JULY 26, 2022

PROJECT

IRVING VILLAGE  
4349 IRVING BLVD NW  
ALBUQUERQUE, NEW MEXICO

| REVISIONS | DATE | DESCRIPTION |
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| ARCHT PROJ #:  |           |
| DRAWN BY:      | JT        |
| CHECKED BY:    | JT        |
| DATE           | 7/25/2022 |

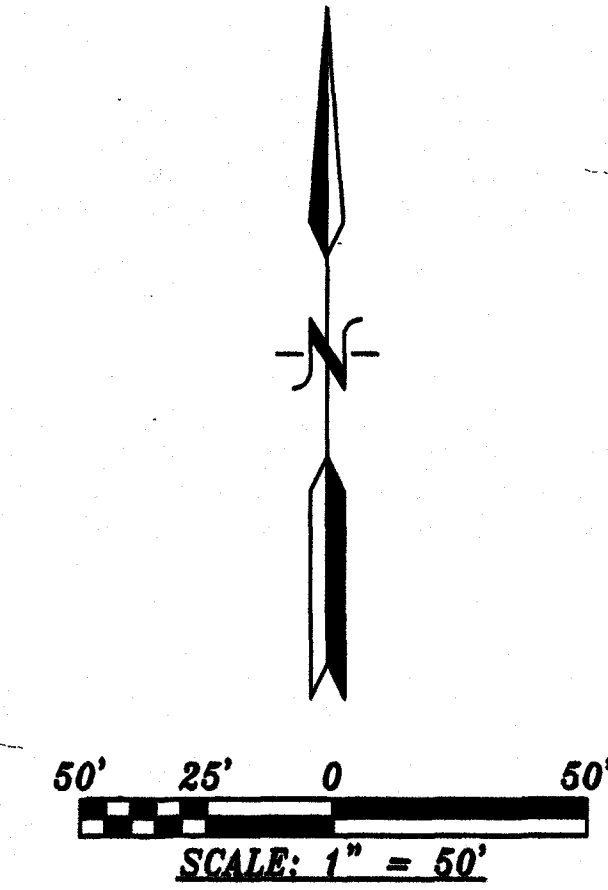
SHEET TITLE  
**SITE PLAN**

**AS101**

**RETRACEMENT SURVEY**  
**OF**  
**TRACT "A"**  
**PARADISE HILLS INDUSTRIAL PARK**  
 WITHIN  
 ALAMEDA GRANT  
 PROJECTED SECTION 18, T. 11 N., R. 3 E., N.M.P.M.  
 CITY OF ALBUQUERQUE  
 BERNALILLO COUNTY, NEW MEXICO  
 NOVEMBER 2018

**LEGAL DESCRIPTION:**

TRACT LETTERED "A" OF THE SUMMARY PLAT OF TRACT N, PARADISE HILLS INDUSTRIAL PARK, AND A PORTION OF TRACT 2 OF EAGLE RANCH AND A PORTION OF A 100' PNM EASEMENT, PARADISE HILLS BERNALILLO COUNTY, NEW MEXICO, SAID SUMMARY PLAT RECORDED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON NOVEMBER 25, 1981 IN VOLUME C19, FOLIO 32.



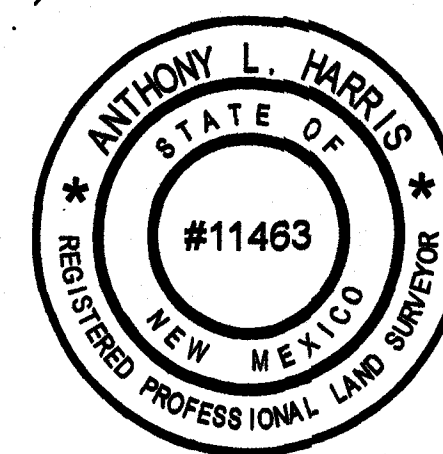
**GENERAL NOTES:**

- 1: OWNER OF RECORD PER OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY TITLE BINDER DATED: OCTOBER 26, 2018 IS L&M9, LLC, A NEW MEXICO LIMITED LIABILITY COMPANY
- 2: LEGAL DESCRIPTION AND EASEMENTS SHOWN WERE PROVIDED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT No. 1806431
- 3: PLATS USED TO ESTABLISH BOUNDARY.
  - A: SUMMARY PLAT PARADISE HILLS INDUSTRIAL PARK FILED: NOVEMBER 25, 1981 IN VOLUME C19, FOLIO 32
  - B: REPLAT TRACT "B" TRACT N PARADISE HILLS INDUSTRIAL PARK FILED: OCTOBER 1, 1990 IN VOLUME 90C, FOLIO 243
- 4: FIELD WORK PERFORMED ON: OCTOBER 30, 2018

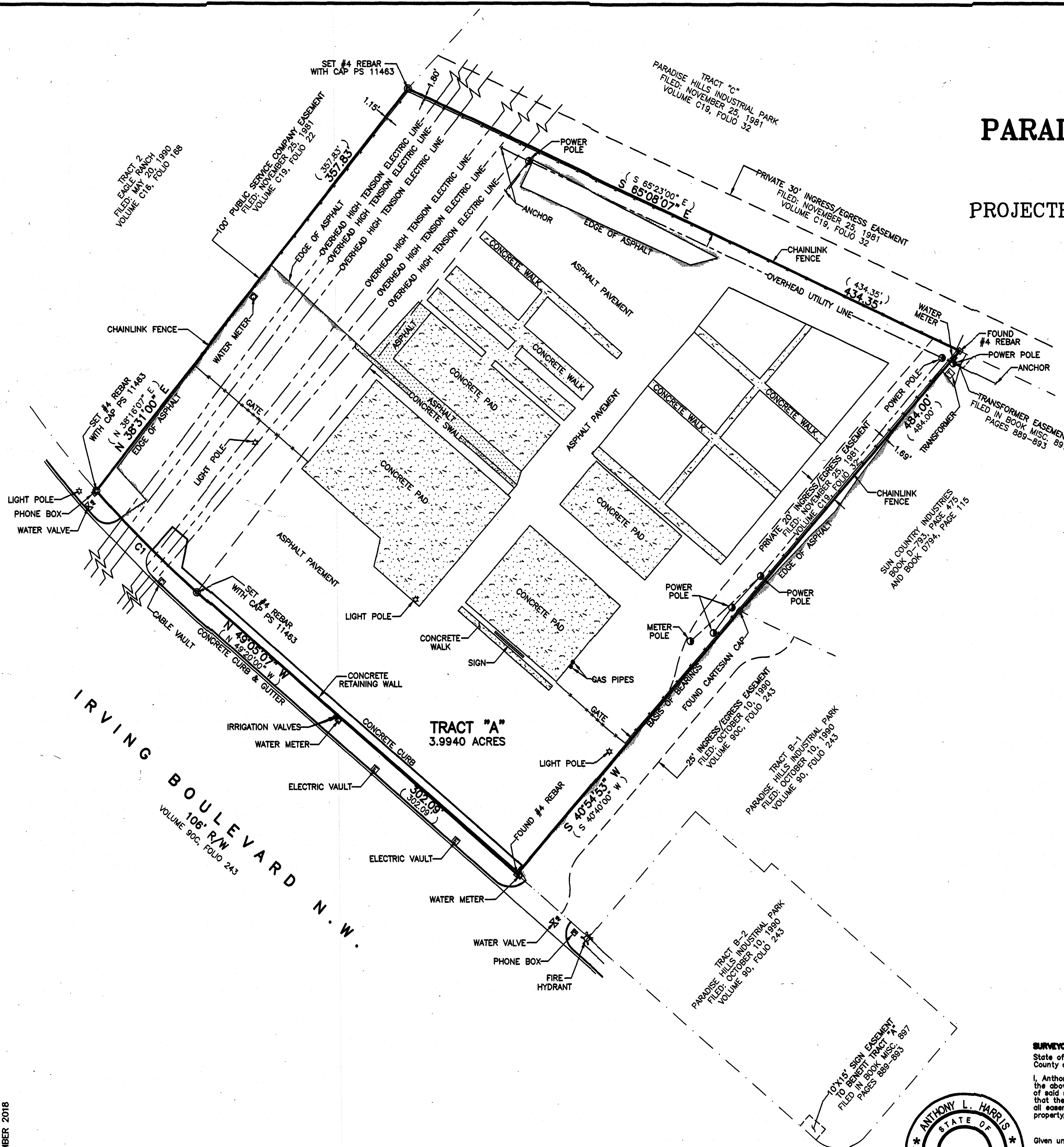
**SURVEYOR'S CERTIFICATE:**  
 State of New Mexico  
 County of Bernalillo ) S.S.

I, Anthony L. Harris, a Professional Surveyor, licensed under the laws of the State of New Mexico, do hereby certify that I have surveyed the above described property and I am responsible for said survey and that the plat hereon drawn is a true and correct representation of said survey, to the best of my knowledge and belief, and meets the minimum standards for land surveys in the State of New Mexico; that the bearings and distances shown hereon are based on the Plat or Deed of Record, unless otherwise indicated herein; that it shows all easements shown on the plat of record; that there are no encroachments from the said property onto adjoining properties onto said property, unless shown hereon and that it shows the location of all permanent improvements pertinent to the said survey.

Given under my hand and seal at Albuquerque, New Mexico, this 14th day of NOVEMBER, 2018



*Anthony L. Harris*  
 Anthony L. Harris, N.M.P.S.#11463 THE SURVEY OFFICE, LLC  
 333 LOMAS BOULEVARD N.E. • ALBUQUERQUE, NEW MEXICO 87102  
 Telephone (505) 998-0303 • FAX (505) 998-0306



**CURVE TABLE**

| CURVE | ARC LENGTH | RADIUS    | DELTA ANGLE | CHORD BEARING   | CHORD LENGTH |
|-------|------------|-----------|-------------|-----------------|--------------|
| C1    | 100.63'    | 790.37'   | 7°17'41"    | N 45°26'16" W   | 100.56'      |
|       | (100.63')  | (790.37') | (7°17'41")  | (N 45°41'09" W) | (100.56')    |



INDUSTRIAL ENGINEERING, INC MECHANICAL-ELECTRICAL CONSULTANTS

3210 23rd AVE SE RIO RANCHO, NM 87124 WWW.IEINM.COM INFO@IEINM.COM



29 AUG, 2022

Table with columns: NO, DATE, REVISION

IRVING VILLAGE

4349 IRVING ROAD ALBUQUERQUE, NM

IRVING VILLAGE

4349 IRVING ROAD ALBUQUERQUE, NM

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ABBREVIATIONS, SYMBOLS & NOTES

DATE: 29 AUG, 2022 DRAWN BY: DAE CHECKED BY: DAE PROJ. NO: 62601 SHEET NO:

E-0.00

ELECTRICAL SYMBOL NOTES

Text and diagrams explaining electrical symbols and notes, including examples for lighting fixtures, transformers, panelboards, and motor connections.

ELECTRICAL SYMBOL LEGEND table with columns: SYMBOL, DESCRIPTION, HT AFF, SYMBOL, DESCRIPTION, HT AFF, SYMBOL, DESCRIPTION

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

ELECTRICAL ABBREVIATIONS LIST

Table listing electrical abbreviations and their corresponding descriptions, such as 1P (1 POLE), AC (AMPERE), and BATT (BATTERY).

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS. A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL. 1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.

GENERAL ELECTRICAL NOTES

A. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. B. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY THE ELECTRICAL CONTRACTOR. C. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES AS REQUIRED FOR REMODELING.

ELECTRICAL DRAWING INDEX table with columns: Sheet Number, Sheet Name



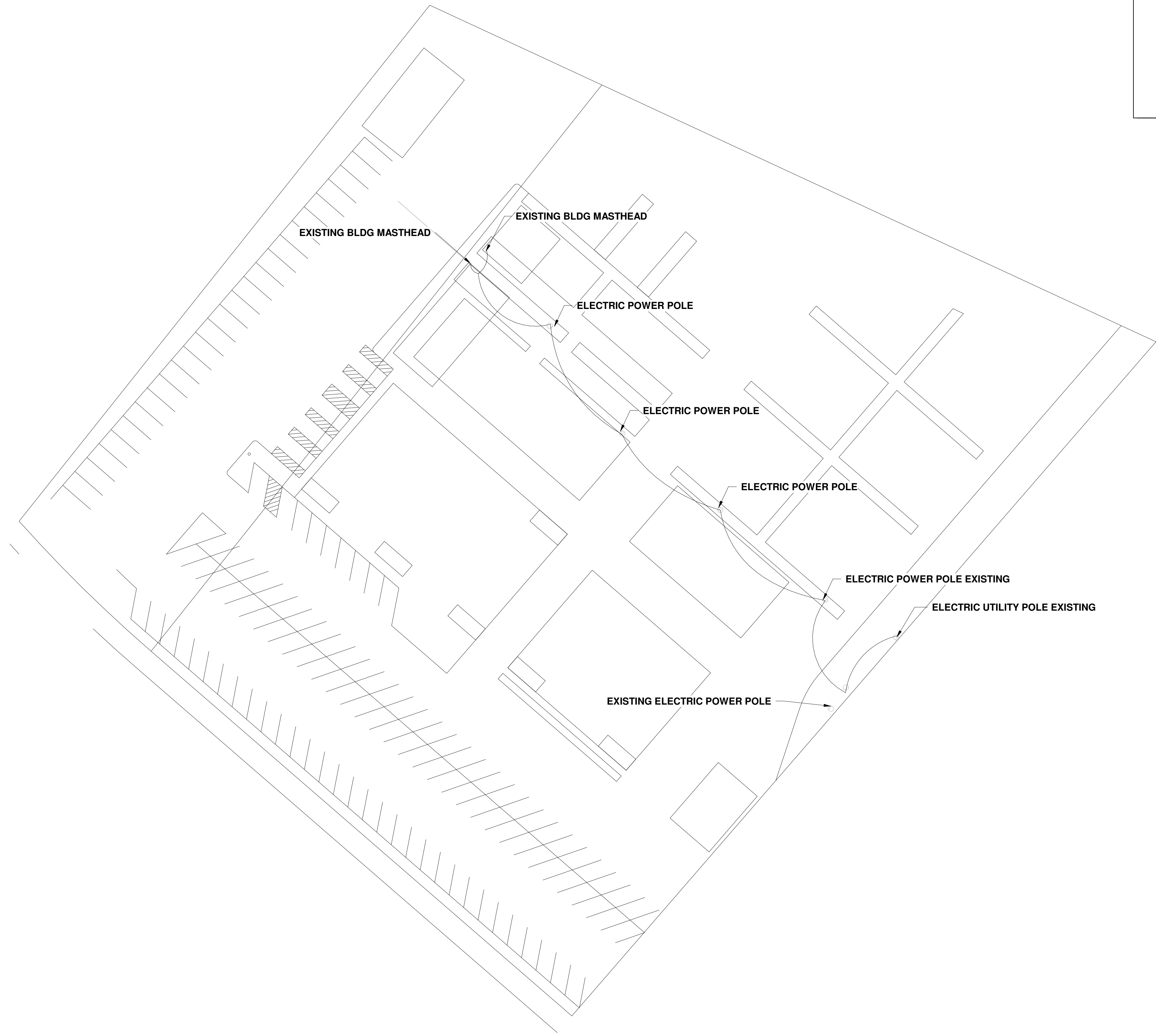
**INDUSTRIAL  
ENGINEERING, INC**

**MECHANICAL-ELECTRICAL  
CONSULTANTS**

3210 23rd AVE SE  
RIO RANCHO, NM 87124  
WWW.IEINM.COM  
INFO@IEINM.COM

**ELECTRICAL SCOPE OF WORK**

1. ELECTRICAL CONTRACTOR SHALL ENERGIZE TWO BUILDINGS FROM EXISTING OVERHEAD ELECTRICAL SERVICE. ESTABLISH POINT OF DELIVERY FOR BOTH BUILDINGS ON NEW MASTHEAD AND VERIFY CLEARANCES PER CODE. CIRCUIT FROM THAT POINT TO MASTHEAD ON EACH EXISTING BUILDING AND EXTEND TO FUSED DISCONNECT ON EXTERIOR OF BUILDING. VERIFY GROUND TO METAL FRAME OF BUILDING AND GROUND RODS AS SHOWN.



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**IRVING VILLAGE**

4349 IRVING ROAD  
ALBUQUERQUE, NM

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**IRVING VILLAGE**

4349 IRVING ROAD  
ALBUQUERQUE, NM

**ELECTRICAL SITE PLAN**

DATE: 29 AUG, 2022  
DRAWN BY: DAE  
CHECKED BY: DAE  
PROJ. NO: 62601  
SHEET NO:

**E-1.01**





**INDUSTRIAL  
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**MECHANICAL-ELECTRICAL  
CONSULTANTS**

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RIO RANCHO, NM 87124  
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29 AUG, 2022

| NO | DATE | REVISION |
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**IRVING VILLAGE**

4349 IRVING ROAD  
ALBUQUERQUE, NM

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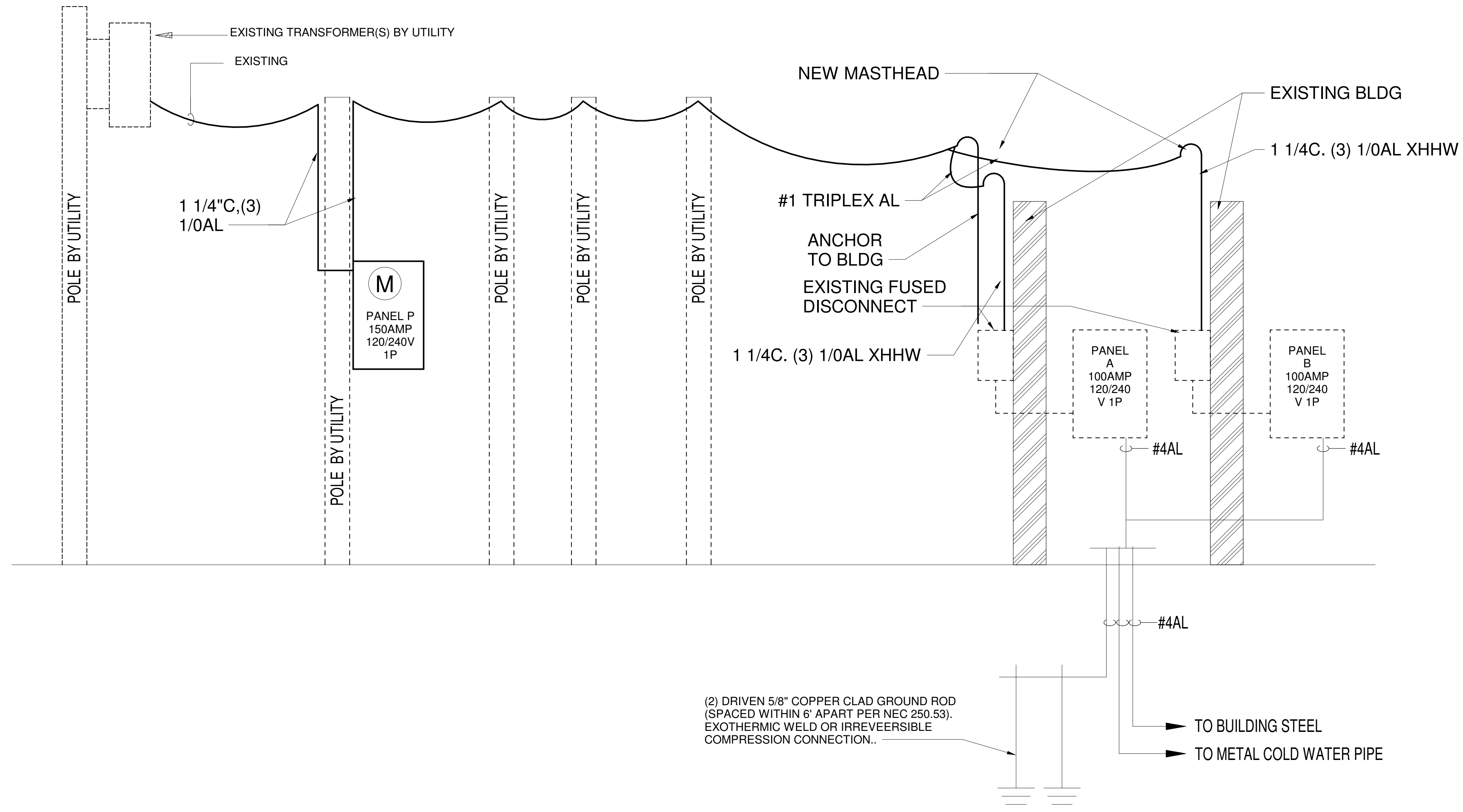
**IRVING VILLAGE**

4349 IRVING ROAD  
ALBUQUERQUE, NM

**ELECTRICAL SCHEDULES &  
DETAILS**

DATE: 29 AUG, 2022  
DRAWN BY: DAE  
CHECKED BY: DAE  
PROJ. NO: 62601  
SHEET NO:

**E-2.01**



8/29/2022 9:11:18 AM



INDUSTRIAL ENGINEERING, INC

MECHANICAL-ELECTRICAL CONSULTANTS

3210 23rd AVE SE
RIO RANCHO, NM 87124
WWW.IEINM.COM
INFO@IEINM.COM



29 AUG, 2022

Table with 3 columns: NO, DATE, REVISION

IRVING VILLAGE

4349 IRVING ROAD
ALBUQUERQUE, NM

IRVING VILLAGE

4349 IRVING ROAD
ALBUQUERQUE, NM

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ELECTRICAL SPECIFICATIONS

DATE: 29 AUG, 2022
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 62601
SHEET NO:

E-3.01

ELECTRICAL SPECIFICATION

GENERAL REQUIRMENTS

BASIC MATERIALS AND METHODS

1. GENERAL:

A. BEFORE SUBMITTING A PROPOSAL FOR THE WORK FOR THESE SPECIFICATIONS AND DRAWINGS, EACH BIDDER SHALL EXAMINE THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS INCLUDING BUT NOT LIMITED TO UTILITY SERVICE, LOCATIONS, MATERIALS, AND DEMOLITION THAT AFFECT THE WORK AND COST THEREOF. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF A MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED OR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

2. DRAWINGS AND SPECIFICATIONS:

A. THESE SPECIFICATIONS AND THE CORRESPONDING DRAWINGS FORM A SET OF PLANS FOR THE ELECTRICAL WORK OF THIS PROJECT AND NEITHER SHALL BE COMPLETE WITHOUT THE OTHER. WHERE AN ITEM IS MENTIONED IN ONE AND NOT THE OTHER, IT SHALL BE CONSIDERED AS BINDING IN THE CONTRACT AS THOUGH MENTIONED IN BOTH.

3. APPROVAL OF MATERIAL:

A. WHERE ONE MANUFACTURER, MODEL OR BRAND NAME IS SPECIFIED ALONE, NO SUBSTITUTION WILL BE ALLOWED, UNLESS SPECIFICALLY STATED. WHERE MORE THAN ONE MANUFACTURER, MODEL OR BRAND NAME IS SPECIFIED FOR THE SAME ITEM, THE CONTRACTOR MAY CHOOSE BETWEEN THEM WHEN ONE OR MORE MANUFACTURERS MODELS OR BRAND NAMES ARE MENTIONED AND FOLLOWED BY THE PHRASE (OR APPROVED EQUAL), IT SHALL BE UNDERSTOOD THAT THE NAMES MENTIONED ARE TO SET A STANDARD, AND ANOTHER MANUFACTURER, MODEL OR BRAND NAME MAY BE USED IF FULLY EQUAL OR SUPERIOR.

4. PERMITS, FEES, LICENSES AND SERVICES:

A. ALL PERMITS, LICENSES, FEES AND SERVICE CHARGES REQUIRED IN CONNECTION WITH THE WORK OF THIS DIVISION SHALL BE SECURED AND PAID FOR BY THIS CONTRACTOR.

5. MAINTENANCE AND OPERATING INSTRUCTIONS:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE OWNER'S DESIGNATED PERSONNEL IN THE MAINTENANCE OF ALL EQUIPMENT AND SPECIAL SYSTEMS INSTALLED AS A PART OF THIS PROJECT. AT THE TIME THAT INSTRUCTIONS ARE BEING GIVEN, THE CONTRACTOR SHALL PRESENT THE OWNERS DESIGNATED PERSONNEL WITH (2) TWO COMPLETE MANUFACTURER'S OPERATING AND MAINTENANCE MANUALS.

6. COORDINATION:

A. CORRELATE WORK WITH THAT OF OTHER CONTRACTORS. ORGANIZE WORK SO THAT IT WILL NOT INTERFERE WITH OR DELAY THE WORK OF OTHER CONTRACTORS.

7. FIRESTOPPING:

A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

8. ELECTRICAL REQUIREMENTS:

A. ELECTRICAL CHARACTERISTICS, SUCH AS VOLTAGE AND PHASE, SHALL BE AS GIVEN IN THE CONTRACT DOCUMENTS. WHERE THIS INFORMATION IS NOT GIVEN, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BIDDING. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO CONTACT THE ENGINEER TO OBTAIN ELECTRICAL CHARACTERISTICS NOT GIVEN.

9. EQUIPMENT CONNECTIONS:

A. VERIFY CONNECTION REQUIREMENTS BEFORE INSTALLATION FOR ALL EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. ACTUAL EQUIPMENT FURNISHED MAY DIFFER AND SHALL BE VERIFIED FROM EQUIPMENT SHOP DRAWINGS OR OTHER PROPER INFORMATION TO ASSURE CORRECT ELECTRICAL PROVISIONS.

10. CUTTING AND PATCHING:

A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.

11. CLEANING AND PROTECTION:

A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS.

12. RELATED WORK:

A. CONCRETE FOUNDATION AND PITS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUITABLE CONCRETE FOUNDATIONS, PADS, PITS, AND NECESSARY ANCHOR BOLTS, TIE PLATES, ETC. FOR HIS SYSTEMS UNLESS OTHERWISE NOTED OR SPECIFIED.

13. GUARANTEE:

A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS, WORKMANSHIP AND THE SUCCESSFUL OPERATION OF ALL APPARATUS FURNISHED AND INSTALLED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE FINAL ACCEPTANCE.

14. EXISTING SYSTEMS

A. THIS CONTRACTOR SHALL MAKE ALL CHANGES TO THE EXISTING SYSTEMS AS REQUIRED TO COMPLETE THE INSTALLATION. THIS CONTRACTOR SHALL RELOCATE, REPLACE OR REMOVE EXISTING ELECTRICAL SYSTEM COMPONENTS AS REQUIRED.

C. WHERE EXISTING COMPONENTS ARE TO BE REMOVED, THEY SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE STORED AT THE JOB SITE AS DIRECTED BY THE OWNERS REPRESENTATIVE. ALL EXISTING CONDUCTORS WHICH ARE ABANDONED SHALL BE REMOVED TO THE NEAREST ACCESSIBLE BOX. WHERE REMOVAL IS NOT PRACTICAL, ABANDONED CONDUCTORS SHALL BE DISCONNECTED AT BOTH ENDS, WITHIN JUNCTION BOXES, AND TAPED AND IDENTIFIED WITH SUITABLE NAME TAGS.

D. THIS CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING AND REFINISHING REQUIRED AS A RESULT OF ELECTRICAL WORK DONE IN AREAS NOT OTHERWISE REMODELED.

E. IT MAY BE FOUND NECESSARY TO INTERRUPT SERVICES TO EXISTING BUILDING OR PORTIONS THEREOF DURING THE PROGRESS OF THIS WORK. WHEN SUCH INTERRUPTIONS ARE LIKELY TO OCCUR, MAKE PREVIOUS ARRANGEMENTS WITH THE OWNER AS TO THE MOST CONVENIENT TIME FOR SUCH INTERRUPTIONS. TEMPORARY SERVICE CONNECTIONS SHALL BE PROVIDED WHERE THE OWNER CANNOT PERMIT SERVICE INTERRUPTIONS. THE EXISTING OR TEMPORARY SERVICES SHALL BE MAINTAINED IN OPERATION UNTIL SUCH TIME THAT THE NEW SERVICES HAVE BEEN INSTALLED AND ARE READY FOR PERMANENT OPERATION.

15. DEMOLITION WORK IN EXISTING BUILDING

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AS REQUIRED. NO ADDITIONAL COMPENSATION SHALL BE GRANTED FOR MISINTERPRETATION OR OVERSIGHT ON BEHALF OF THE CONTRACTOR.

B. ALL FIXTURES AND ELECTRICAL DEVICES REMOVED DURING THE COURSE OF CONSTRUCTION SHALL REMAIN THE PROPERTY OF THE OWNER AND THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

C. DUST, NOISE, VIBRATION AND TRAFFIC SHALL BE CONTROLLED TO A PRE-AGREED MINIMUM.

D. DEVICES, BOXES, CONDUIT AND EQUIPMENT WHICH HAVE SUFFERED PARTIAL REMOVAL OR ABANDONMENT SHALL BE COVERED, CAPPED OR MODIFIED SO AS TO CONFORM WITH ALL CODES AND SHALL PRESENT NO HAZARD FOR THE PRESENT OR THE FUTURE.

E. WHERE THIS PROJECT WILL CONSIST OF ALTERATION WORK WITHIN, AND CONSTRUCTION OF BUILDING ADDITIONS TO AN OPERATING FACILITY, DEMOLITION WORK SHALL BE COORDINATED AND CONDUCTED IN A MANNER THAT WILL NOT INTERFERE WITH NORMAL OPERATION OF THE BUILDING. ALL WORK SHALL BE PLANNED IN ADVANCE WITH THE OWNER AND ARCHITECT.

F. MATERIALS AND EQUIPMENT NOTED TO BE REUSED SHALL BE EXAMINED AND REPAIRED AS REQUIRED SO THAT MATERIALS AND EQUIPMENT WILL BE PRESENTABLE AND IN GOOD WORKING CONDITION.

G. IT MAY BE FOUND NECESSARY TO INTERRUPT SERVICE TO EXISTING BUILDING OR PORTIONS THEREOF DURING THE PROGRESS OF THIS WORK. WHEN SUCH INTERRUPTIONS ARE LIKELY TO OCCUR, MAKE PREVIOUS ARRANGEMENTS WITH THE OWNER AS TO THE MOST CONVENIENT TIMES FOR SUCH INTERRUPTIONS. TEMPORARY SERVICE CONNECTIONS SHALL BE PROVIDED WHERE THE OWNER CANNOT PERMIT SERVICE INTERRUPTIONS. THE EXISTING OR TEMPORARY SERVICES SHALL BE MAINTAINED IN OPERATION UNTIL SUCH TIME THAT THE NEW SERVICES HAVE BEEN INSTALLED AND ARE READY FOR PERMANENT OPERATION.

1. CONDUCTORS AND CABLES:

A. PERMITTED COPPER CONDUCTORS EXCEPT WHERE ALUMINUM CONDUCTORS ARE SPECIFICALLY INDICATED OR PERMITTED FOR SUBSTITUTION. ALUMINUM CONDUCTORS MAY BE SUBSTITUTED FOR CONDUCTORS #6 AND LARGER. CONDUCTOR SIZES INDICATED ARE BASED ON COPPER UNLESS SPECIFICALLY INDICATED AS ALUMINUM. WHERE ALUMINUM CONDUCTORS ARE SUBSTITUTED FOR COPPER, COMPLY WITH THE FOLLOWING:

1) SIZE ALUMINUM CONDUCTORS TO PROVIDE, COMPARABLE TO COPPER SIZES INDICATED, EQUIVALENT OR GREATER AMPACITY AND EQUIVALENT OR LESS VOLTAGE DROP.

2) INCREASE SIZE OF RACEWAYS, BOXES, WIRING GUTTERS, ENCLOSURES, ETC. AS REQUIRED TO ACCOMMODATE ALUMINUM CONDUCTORS.

3) PROVIDE ALUMINUM EQUIPMENT GROUND CONDUCTOR SIZED ACCORDING TO NFPA 70. ALUMINUM CONDUCTORS.

B. CONDUCTORS AND CABLES INSTALLED EXPOSED IN SPACES USED FOR ENVIRONMENTAL AIR SHALL BE PLENUM RATED, LISTED AND LABELED AS SUITABLE FOR USE IN RETURN AIR PLENUMS.

C. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED CONDUIT, BOXES, WIRING, CONNECTORS, ETC. AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

D. UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED WITHOUT SPECIFIC ROUTING, DETERMINE EXACT ROUTING REQUIRED.

E. NONMETALLIC-SHEATHED CABLE MAY BE SUBSTITUTED FOR WIRE IN CONDUIT IF ALLOWED BY CODE. INSTALL NONMETALLIC-SHEATHED CABLE (TYPE NM-B) IN ACCORDANCE WITH NECA 121.

F. MC CABLE MAY BE SUBSTITUTED FOR WIRE IN CONDUIT IF ALLOWED BY CODE. INSTALL METAL-CLAD CABLE (TYPE MC) IN ACCORDANCE WITH NECA 120.

2. GROUNDING AND BONDING:

A. PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDING AND BONDING SYSTEM. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70.

B. PROVIDE CONNECTION TO GROUNDING ELECTRODES FROM THE FOLLOWING METHODS BELOW TO FORM A GROUNDING ELECTRODE SYSTEM.

1) METAL UNDERGROUND WATER PIPES: PROVIDE CONNECTION TO UNDERGROUND METAL DOMESTIC WATER SERVICE PIPE(S) THAT ARE IN DIRECT CONTACT WITH EARTH FOR A LEAST 10 FEET AT AN ACCESSIBLE LOCATION NOT MORE THAN 5 FEET FROM THE POINT OF ENTRANCE TO THE BUILDING.

2) CONCRETE-ENCASED ELECTRODE: PROVIDE CONNECTION TO CONCRETE-ENCASED ELECTRODE CONSISTING OF NOT LESS THAN 20 FEET OF EITHER STEEL REINFORCING BARS OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG EMBEDDED WITHIN CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH IN ACCORDANCE WITH NFPA 70.

3) GROUND ROD ELECTRODE(S): PROVIDE THREE ELECTRODES IN AN EQUILATERAL TRIANGLE CONFIGURATION NOT LESS THAN 10 FEET FROM EACH OTHER.

C. PROVIDE 1/4"x4"x12" GROUND BAR, SEPARATE FROM SERVICE EQUIPMENT ENCLOSURE, FOR COMMON CONNECTION POINT OF GROUND ELECTRODE SYSTEM BONDING JUMPERS AS PERMITTED IN NFPA 70.

D. FOR EACH SERVICE DISCONNECT, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT NEUTRAL (GROUNDED) SERVICE CONDUCTOR TO THE GROUNDING ELECTRODE SYSTEM. PROVIDE A MAIN BONDING JUMPER TO CONNECT THE NEUTRAL (GROUNDED) BUS TO THE EQUIPMENT GROUND BUS WHERE NOT FACTORY-INSTALLED.

E. PROVIDE BONDING FOR EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT GROUND BUSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, AND OTHER NORMALLY NON-CURRENT CONDUCTIVE MATERIALS LIKELY TO BECOME ENERGIZED.

F. PROVIDE INSULATED GREEN GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDING CONDUCTOR WHERE CIRCUIT SIZE ARE INCREASED FOR VOLTAGE DROP, INCREASE SIZE OF EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY IN ACCORDANCE WITH NFPA 70.

G. COMMUNICATIONS SYSTEMS GROUNDING AND BONDING: PROVIDE SIZE 6 AWG BONDING JUMPER IN RACEWAY FROM INTERSYSTEM BONDING TERMINATION TO EACH COMMUNICATIONS ROOM OR BACKBOARD AND PROVIDE GROUND BAR FOR TERMINATION.

H. MAKE GROUNDING AND BONDING CONNECTIONS USING THE FOLLOWING METHODS BELOW:

- 1) EXOTHERMIC WELDS; MAKE CONNECTIONS USING MOLDS AND WELD MATERIALS SUITABLE FOR THE INSTALLATION.
2) MECHANICAL CONNECTORS: SECURE CONNECTIONS ACCORDING TO MANUFACTURER'S TORQUE SETTINGS.
3) COMPRESSION CONNECTORS: SECURE CONNECTIONS USING MANUFACTURERS TOOLS AND DIES.

3. LIGHTING AND POWER PANELBOARDS:

A. NEMA PB1 AS SCHEDULED, 20" WIDE SECTION, 225 AMP BUS (100A BUS PERMITTED IF LESS THAN 30 BRANCH POLES). PROVIDE A GROUND BUS FOR ISOLATED GROUND CIRCUITS. BUS MATERIAL ALUMINUM OR COPPER INSTALL PER NEMA PB1.1 BALANCE PHASE CURRENTS TO 10% MAXIMUM VARIATION. PROVIDE TYPEWRITTEN BRANCH CIRCUIT DIRECTORY, LOCKABLE DOORS, KEYS ALIKE UNLESS NOTED OTHERWISE. SURFACE MOUNTED OR FLUSH MOUNTED ENCLOSURES AS INDICATED.

B. CIRCUIT BREAKERS: NEMA AB1 AS SCHEDULED, PLUG-IN OR BOLT-ON. MULTIPLE POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. PROVIDE CIRCUIT BREAKERS WITH INTERRUPTING CAPACITY NOT LESS THAN THE AVAILABLE FAULT CURRENT AT THE INSTALLED LOCATION AS INDICATED ON THE DRAWINGS.

C. LOAD CENTERS: CIRCUIT BREAKER TYPE, THERMAL MAGNETIC PLUG-IN, FLUSH MOUNTED ENCLOSURE UNLESS OTHERWISE INDICATED.

4. WIRING DEVICES:

A. ALL WIRING DEVICES INSTALLED SHALL BE "SPECIFICATION GRADE" AND MANUFACTURED BY ARROW HART, LEVITON, HUBBEL OR EQUAL.

B. LOCAL SWITCHES SHALL BE TOGGLE TYPE, AC, RATED 20A 125V, QUIET TYPE WITH SILENT OPERATING MECHANISM, TOTALLY ENCLOSED IN A MOLDED COMPOSITION BASE. ALL RECEPTACLES SHALL BE GROUNDING TYPE, UNLESS OTHERWISE INDICATED. LOCAL SWITCHES AND DIMMERS SHALL BE INSTALLED 48 INCHES ABOVE FINISHED FLOOR, RECEPTACLES SHALL BE INSTALLED 18 INCHES ABOVE FINISHED FLOOR OR 6 INCHES ABOVE COUNTER.

C. NEUTRAL CONDUCTORS SHALL NOT BE SHARED ON BRANCH CIRCUITS UTILIZING WALL DIMMERS.

D. GFI DUPLEX RECEPTACLES: NEMA 5-20R CONFIGURATION AND RATING, SELF CONTAINED GROUND FAULT CURRENT INTERRUPTING DUPLEX RECEPTACLE, LISTED AND LABELED AS TAMPER RESISTANT TYPE AND AS WEATHER RESISTANT TYPE COMPLYING WITH UL 498 SUPPLEMENT SE SUITABLE FOR INSTALLATION IN DAMP OR WET LOCATIONS, GRAY COLOR, PROVIDE WITH WEATHERPROOF BOX AND COVER WHERE INDICATED.

E. TAMPER RESISTANT CONVENIENCE RECEPTACLES: COMMERCIAL SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R, LISTED AND LABELED AS TAMPER RESISTANT TYPE.

F. WALL DEVICE AND PLATE COLOR BY ARCHITECT.

5. LIGHTING FIXTURES:

A. SEE LIGHTING FIXTURE SCHEDULE ON THE ELECTRICAL DRAWINGS FOR TYPE AND DESCRIPTION OF LUMINARIES.

B. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT, UNLOADING, STORAGE AND PROTECTION OF LIGHTING FIXTURES. PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE OPERATING SYSTEM.

C. UPON INTERRUPTION OF NORMAL POWER SOURCE, SOLID-STATE CONTROL WILL AUTOMATICALLY SWITCH TO BATTERY POWER WITH CONNECTED LED LAMPS FOR MINIMUM 90 MINUTES OF RATED EMERGENCY ILLUMINATION, AND AUTOMATICALLY RECHARGES BATTERY UPON RESTORATION OF NORMAL POWER SOURCE. UNLESS OTHERWISE INDICATED, CONNECT UNIT TO UN-SWITCHED POWER FROM SAME CIRCUIT FEEDING NORMAL LIGHTING IN SAME ROOM OR AREA. BYPASS LOCAL SWITCHES, CONTACTOR, OR OTHER LIGHTING CONTROLS.

D. EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED WITH LED'S, SINGLE OR DOUBLE FACE AS INDICATED ON THE DRAWING, DIRECTIONAL ARROWS AS INDICATED OR REQUIRED FOR THE INSTALLED LOCATION. UNLESS OTHERWISE INDICATED, CONNECT UNIT TO UN-SWITCHED POWER FROM SAME CIRCUIT FEEDING NORMAL LIGHTING IN SAME ROOM OR AREA. BYPASS LOCAL SWITCHES, CONTACTOR, OR OTHER LIGHTING CONTROLS.

E. LEAVE PROTECTIVE FILM IN PLACE ON FIXTURES UNTIL FINAL CLEAN-UP.

6. LIGHTING CONTROL DEVICES:

A. PROVIDE FACTORY-ASSEMBLED COMMERCIAL SPECIFICATION GRADE OCCUPANCY SENSOR FOR INDOOR USE CAPABLE OF SENSING BOTH MAJOR AND MINOR MOTIONS, ACCORDING TO PUBLISHED COVERAGE AREAS, FOR AUTOMATIC LIGHTING CONTROL. PASSIVE INFRARED OR PASSIVE INFRARED/ULTRASONIC SENSOR TECHNOLOGY.

B. UNLESS OTHERWISE INDICATED, OCCUPANCY SENSORS SHALL BE MANUAL ON/AUTO OFF. WALL SWITCH OCCUPANCY SENSOR SHALL BE DESIGNED FOR INSTALLATION IN A STANDARD WALL BOX WITH A FIELD OF VIEW OF 180 DEGREES, INTEGRATED MANUAL CONTROL CAPABILITY.

C. WHERE INDICATED, INSTALL SEPARATE COMPATIBLE WALL SWITCHES FOR MANUAL CONTROL. INTERFACE WITH DIRECTIONAL OR CEILING MOUNTED OCCUPANCY SENSORS.

7. STRUCTURED CABLING FOR VOICE AND DATA:

A. PROVIDE A COMPLETE PERMANENT SYSTEM OF PATHWAYS FOR VOICE/DATA AND COMMUNICATIONS, INCLUDING CONDUITS AND PULL WIRE, SUPPORT STRUCTURES, ENCLOSURES, CABINETS, AND BACK BOXES.

B. COORDINATE REQUIREMENTS FOR SERVICE ENTRANCE AND ENTRANCE FACILITIES WITH COMMUNICATIONS SERVICE PROVIDER.

8. FIRE DETECTION AND ALARM:

A. FIRE ALARM SYSTEM SHALL BE DESIGN BUILD BY THE ELECTRICAL CONTRACTOR. PRICING SHALL BE INCLUDED IN THE BID.

B. THE SYSTEM SHALL BE ADDRESSABLE BY APPROVED MANUFACTURERS AS FOLLOWS:

- 1) SIMPLEX
2) EDWARDS
3) NOTIFIER
4) PRYOTRONICS
5) FARADAY
6) FIKE
7) GAMEWELL FCI
8) SILENT KNIGHT

9. ENCLOSED SAFETY SWITCHES:

A. QUICK-MAKE, QUICK-BREAK, FUSIBLE OR NON-FUSIBLE, ENCLOSED SAFETY SWITCH LISTED AND LABELED AS COMPLYING WITH UL 98; GENERAL DUTY, RATINGS, AND CONFIGURATION AS INDICATED ON THE DRAWINGS. PROVIDE SAFETY INTERLOCK TO PREVENT OPENING THE COVER WITH THE SWITCH IN THE "ON" POSITION WITH CAPABILITY OF OVERRIDING INTERLOCK FOR TESTING PURPOSES. PROVIDE EXTERNALLY OPERABLE HANDLE WITH MEANS FOR LOCKING IN THE "OFF" POSITION, CAPABLE OF ACCEPTING TWO PADLOCKS.

B. PROVIDE FUSES FOR FUSIBLE SWITCHES AS INDICATED OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

10. FUSES:

A. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE FUSES FOR ALL FUSIBLE EQUIPMENT AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. PROVIDE FUSES OF THE SAME TYPE, RATING, AND MANUFACTURER WITH THE SAME SWITCH.

- 1) FUSIBLE SWITCHES LARGER THAN 600 AMPS: CLASS L, TIME-DELAY.
2) FUSIBLE SWITCHES UP TO 600 AMPS: CLASS RK1, TIME-DELAY.

11. IDENTIFICATION OF ELECTRICAL SYSTEMS:

A. PROVIDE IDENTIFICATION NAMEPLATE TO IDENTIFY EACH PIECE OF ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT. USE SELF-ADHESIVE LAMINATED PLASTIC LABELS; UV, CHEMICAL, WATER, HEAT, AND ABRASIVE RESISTANT. USE FACTORY PRE-PRINTED OR MACHINE-PRINTED TEXT. DO NOT USE HANDWRITTEN TEXT UNLESS OTHERWISE INDICATED.

B. ARC-FLASH HAZARD WARNING: ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE PROVIDED WITH A WARNING SIGN LOCATED CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE SERVICING OR MAINTENANCE OF THE EQUIPMENT. USE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE POLYESTER OR SELF-ADHESIVE VINYL LABELS PRODUCED USING MATERIALS RECOGNIZED TO UL 96.