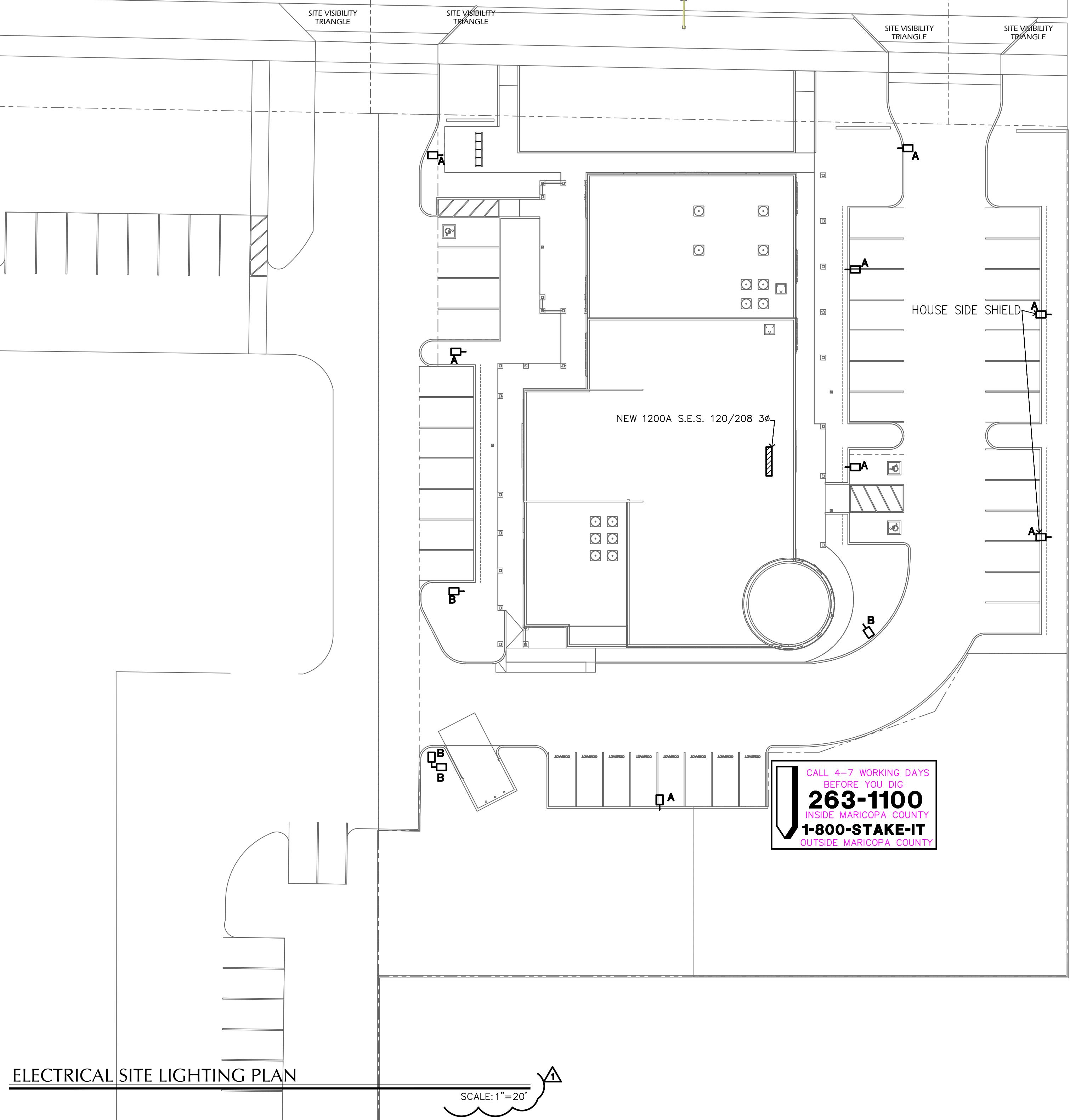


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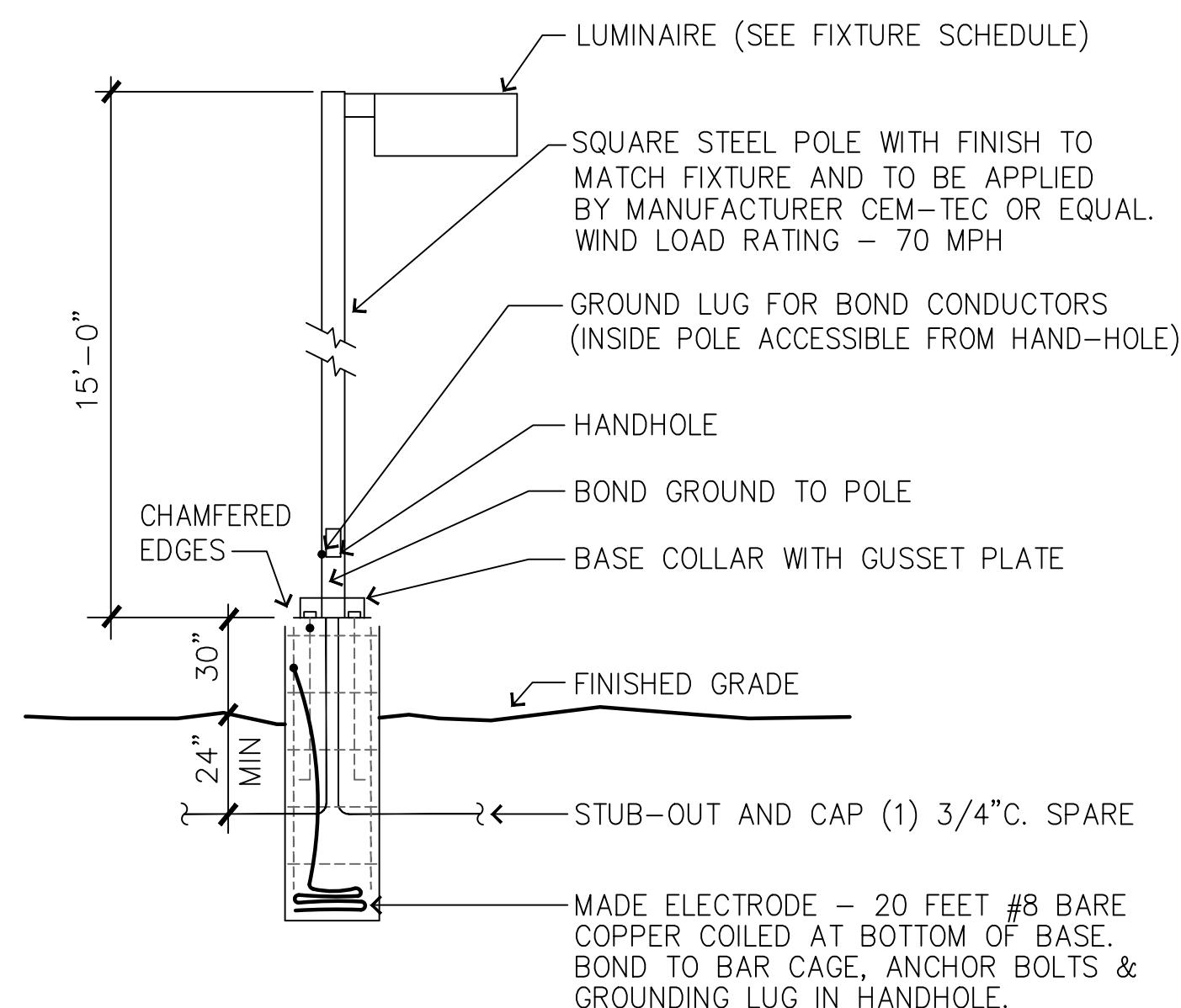


## LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MFR.	CATALOG #	VOLT.	LAMPS		REMARKS
					#	TYPE	
<b>A</b>	LED POLE MOUNTED SITE LIGHTING	HUBBELL OUTDOOR	RAR1-160L-100 3K7-4W-U	208V UNIV.	-	90W LED 3000K	DARK BRONZE SMOOTH FINISH 15' MTG. HEIGHT SEE NOTE #1
<b>B</b>	LED POLE MOUNTED SITE LIGHTING	HUBBELL OUTDOOR	RAR1-160L-100 3K7-5QW-U	208V UNIV.	-	90W LED 3000K	DARK BRONZE SMOOTH FINISH 15' MTG HEIGHT SEE NOTE #1

NOTE 1: PROVIDE HOUSE SIDE SHIELD IF NOTED ON THE PLAN

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## POLE LIGHT FIXTURE 'SA1', 'SA2', DETAIL

N.T.S.

### NOTE:

LIGHT FIXTURE DETAIL SHOWN FOR SCHEMATIC PURPOSES ONLY! GENERAL CONTRACTOR SHALL OBTAIN FINAL, ENGINEERED POLE BASE DETAIL FROM POLE MANUFACTURER OR STRUCTURAL ENGINEER PRIOR TO ANY WORK.

## SITE PLAN KEYED NOTES:

- 1 PROVIDE PRIMARY CONDUITS WITH MULTEAPE FROM PRIMARY SIDE OF UTILITY TRANSFORMER TO UTILITY P.O.C., TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING AND DISTANCE WITH UTILITY PRIOR TO DIGGING.
- 2 PROPOSED RELOCATION OF UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD FOR UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS AND LOCATION. MAINTAIN MINIMUM CLEARANCE IN FRONT, SIDES AND BACK OF UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.
- 3 PROVIDE SECONDARY CONDUIT WITH CONDUCTOR FROM NEW UTILITY COMPANY TRANSFORMER TO S.E.S. UTILITY PULL SECTION VIA SCC. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND UTILITY REQUIREMENTS. TRENCHING, BACKFILL CONDUCTOR PROVIDED BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING. SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION.
- 4 TELE CO. SERVICE CONDUIT BY ELECTRICAL CONTRACTOR. EXTEND (2) 4" + (2) 2" FROM MAIN T.M.B. TO RESPECTIVE TELCO PEDESTAL OR HANDHOLE AS REQUIRED. INSTALL MULTEAPE THROUGHOUT, TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING.
- 5 NEW SERVICE ENTRANCE SECTION 120/208V, 3PH, 4W S.E.S. SEE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 6 PROVIDE NEW SITE POLE LIGHT FIXTURE, ROUTE LIGHTING CIRCUIT THRU TIME CLOCK/LIGHTING CONTACTOR PANEL.

## SITE PLAN KEYED NOTES: (CONT.)

- 7 PROVIDE AND INSTALL (1) 1" CONDUIT LABELED WITH PULL STRINGS FROM DIRECTIONAL SIGN TO ELECTRICAL TENANT PANEL.
- 8 FIELD VERIFY DIRECTIONAL SIGN LOCATION WITH TENANT FIELD REPRESENTATIVE PRIOR TO ROUGH-IN. TYPICAL.
- 9 PROVIDE CONCRETE BOLLARD PROTECTION FOR SERVICE ENTRANCE SECTION AND TRANSFORMER PER UTILITY CO. REQUIREMENTS. COORDINATE LOCATION PRIOR TO ROUGH IN. FIELD VERIFY BOLLARDS CLEAR PATH OF EQUIPMENT SWINGING DOORS.



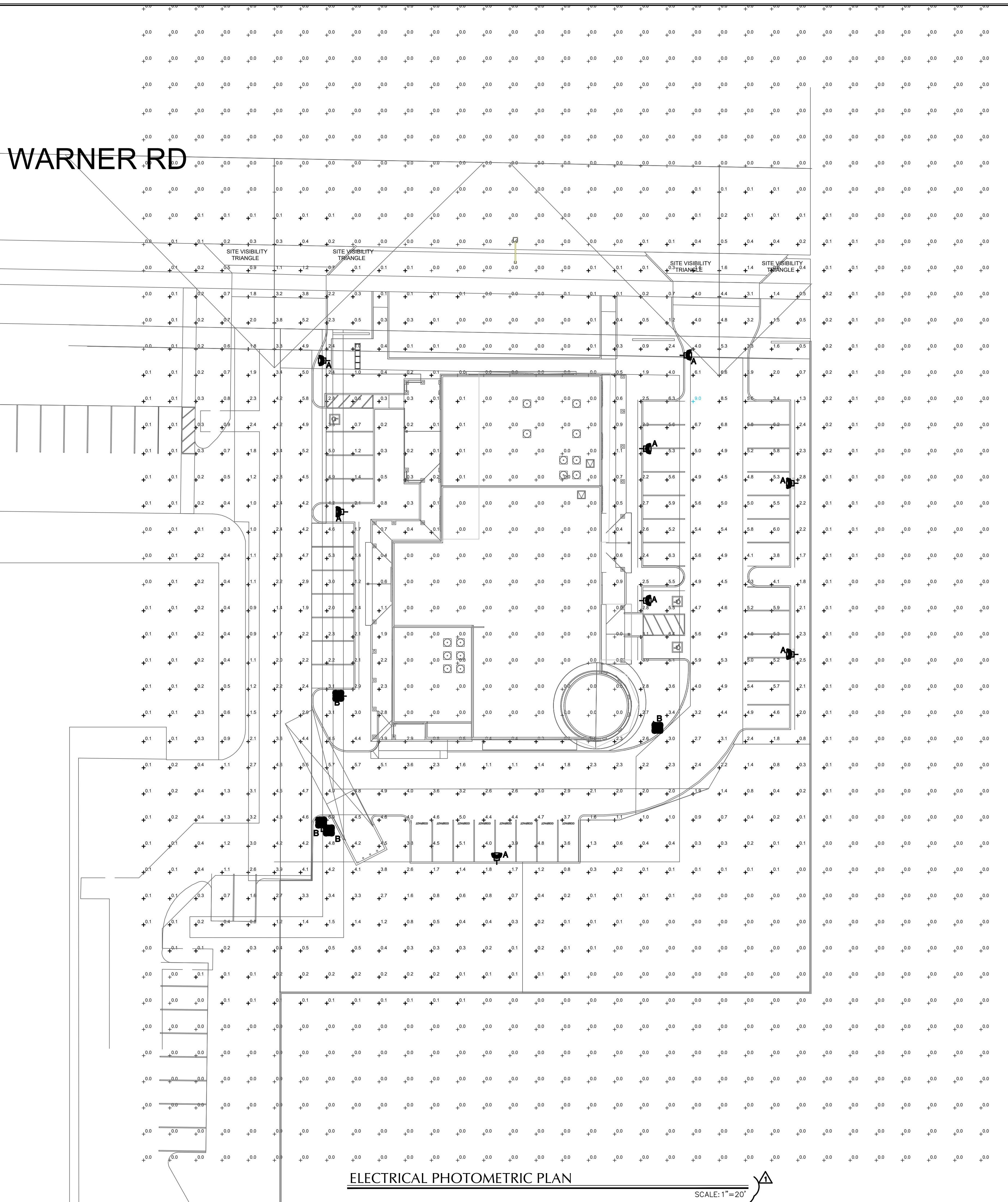
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PAGE FORMAT: 24x36"

ELECTRICAL SITE PLAN

PAGE NUMBER



**LIGHT FIXTURE SCHEDULE**

MARK	DESCRIPTION	MFR.	CATALOG #	VOLT.	LAMPS		REMARKS
					#	TYPE	
<b>A</b>	LED POLE MOUNTED SITE LIGHTING	HUBBELL OUTDOOR	RAR1-160L-100 3K7-4W-U	208V UNIV.	—	90W LED 3000K	DARK BRONZE SMOOTH FINISH 15' MTG. HEIGHT SEE NOTE #1
<b>B</b>	LED POLE MOUNTED SITE LIGHTING	HUBBELL OUTDOOR	RAR1-160L-100 3K7-5QW-U	208V UNIV.	—	90W LED 3000K	DARK BRONZE SMOOTH FINISH 15' MTG. HEIGHT SEE NOTE #1

PROJECT ADDRESS  
E WARNER RD  
MESA, AZ

REVISION HISTORY  
No. Description Date  
MESA BIZ OVERLAY APPLICATION 3/17/25  
EXT LTG COMMENT 12/22/25

ISSUED PLAN SETS  
Description & Date

Professional Engineer  
CERTIFICATE NO.  
31172  
DAVID G. WATSON  
P.E.  
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**BEACON**  
design. performance. technology  
**RATIO Series**  
AREASITE LIGHTER

**FEATURES**

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence<sup>®</sup> and 7-Pin with networked controls
- Best in class surge protection available

**CONTROL TECHNOLOGY**

**SERVICE PROGRAMS**

**STOCK QS10**

**SPECIFICATIONS**

**CONSTRUCTION**

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are angled for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

**OPTICS**

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

**INSTALLATION**

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting blocks for ease of installation during retrofit applications. Available as an option or accessory for square or round poles.
- Knuckle arm fitter option available for 2-3/8" OD fitter. Max 180 degrees with 4 degrees adjustable increments. (Restrictions apply to 7-pin option)

**ELECTRICAL**

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and high PF
- LED drivers have output power over-voltage, over current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20A protection meeting UL IEEE C62.19-2002, UL 1587 and Surge Location Category C3. Automatically takes fixture off-line for protection when device is compromised
- 3G rated for ANSI C36.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product must federal procurement law require use of 20A protection meeting UL IEEE C62.19-2002 and Trade Agreements Act (TAA) See Buy American Act (BAA) and Trade Agreements Act (TAA) [www.buyamerican.gov/resources/buy-america-solutions](http://www.buyamerican.gov/resources/buy-america-solutions)
- Field replaceable optics and 7-pin lock photocoupler or wireless control modules (control accessories sold separately)
- 5000K CCT
- 5-year limited warranty
- See [Hill Standard](http://www.hillstandard.com) Warranty for additional information

**CERTIFICATIONS**

- UL 1598 and CSA C22.2/250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C36.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product must federal procurement law require use of 20A protection meeting UL IEEE C62.19-2002 and Trade Agreements Act (TAA) See Buy American Act (BAA) and Trade Agreements Act (TAA) [www.buyamerican.gov/resources/buy-america-solutions](http://www.buyamerican.gov/resources/buy-america-solutions)
- Field replaceable optics and 7-pin lock photocoupler or wireless control modules (control accessories sold separately)
- 5000K CCT
- 5-year limited warranty
- See [Hill Standard](http://www.hillstandard.com) Warranty for additional information

**WARRANTY**

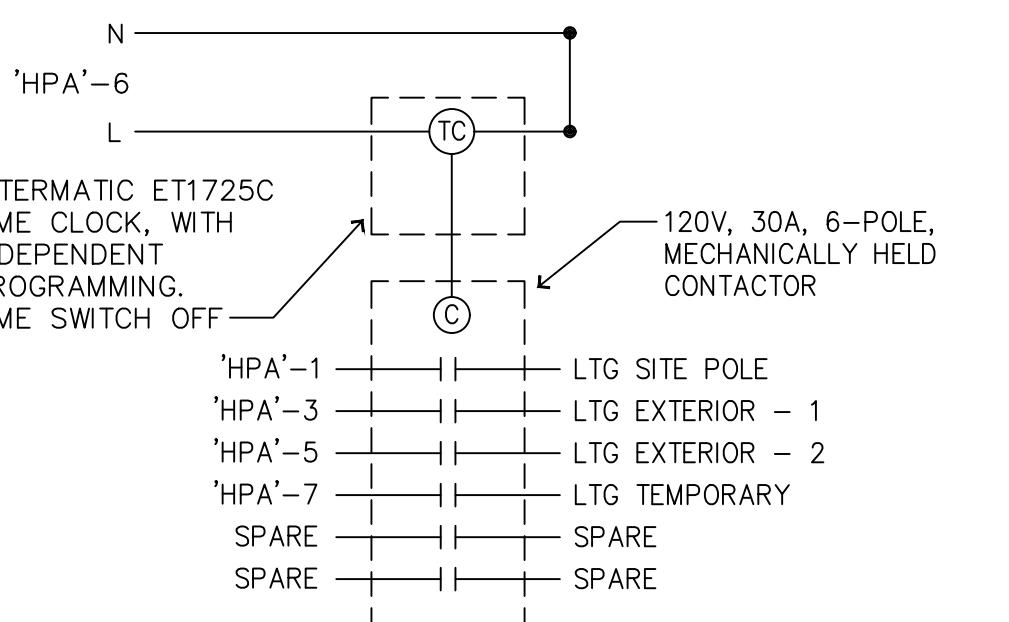
- 5 year limited warranty

**NOTES**

- Mounting: A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-10, A-11, A-12, A-13, A-14, A-15, A-16, A-17, A-18, A-19, A-20, A-21, A-22, A-23, A-24, A-25, A-26, A-27, A-28, A-29, A-30, A-31, A-32, A-33, A-34, A-35, A-36, A-37, A-38, A-39, A-40, A-41, A-42, A-43, A-44, A-45, A-46, A-47, A-48, A-49, A-50, A-51, A-52, A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-60, A-61, A-62, A-63, A-64, A-65, A-66, A-67, A-68, A-69, A-70, A-71, A-72, A-73, A-74, A-75, A-76, A-77, A-78, A-79, A-80, A-81, A-82, A-83, A-84, A-85, A-86, A-87, A-88, A-89, A-90, A-91, A-92, A-93, A-94, A-95, A-96, A-97, A-98, A-99, A-100, A-101, A-102, A-103, A-104, A-105, A-106, A-107, A-108, A-109, A-110, A-111, A-112, A-113, A-114, A-115, A-116, A-117, A-118, A-119, A-120, A-121, A-122, A-123, A-124, A-125, A-126, A-127, A-128, A-129, A-130, A-131, A-132, A-133, A-134, A-135, A-136, A-137, A-138, A-139, A-140, A-141, A-142, A-143, A-144, A-145, A-146, A-147, A-148, A-149, A-150, A-151, A-152, A-153, A-154, A-155, A-156, 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**GENERAL NOTES:**

- a. PROVIDE A WORKING SPACE OF NOT LESS THAN 30 INCHES IN WIDTH, 36 INCHES IN DEPTH AND 78 INCHES IN HEIGHT IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. IF THE ELECTRICAL EQUIPMENT IS WIDER THAN 30 INCHES, THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT. THERE SHALL BE NO STORAGE WITHIN THE DESIGNATED WORK SPACE..
- b. COORDINATION OF OVERCURRENT PROTECTIVE DEVICES SHALL BE BY ELECTRICAL CONTRACTOR AT THEIR OWN EXPENSE, INCLUDING SETTINGS OF CIRCUIT BREAKERS, FUSES AND GROUND FAULT DEVICES. CONTRACTOR SHALL PROVIDE COORDINATION STUDY AND SET ALL CIRCUIT PROTECTIVE DEVICE SETTINGS AS RECOMMENDED AT THE COMPLETION OF THE PROJECT.
- c. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS. NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- d. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RATED WALLS, PARTITIONS, FLOORS, AND CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS AND MATERIALS LISTED FOR THIS PURPOSE. REFER TO NEC ARTICLE 300.21 FOR REQUIREMENTS.
- e. ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING OF THE AVAILABLE FAULT CURRENT FOR EACH PANEL AS NOTED, PER NEC 110.24.
- f. ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING TO INDICATE WHERE EACH PIECE OF EQUIPMENT ORIGINATES, PER 408.4(B).

**LTG CONTACTOR DIAGRAM - LC-1**

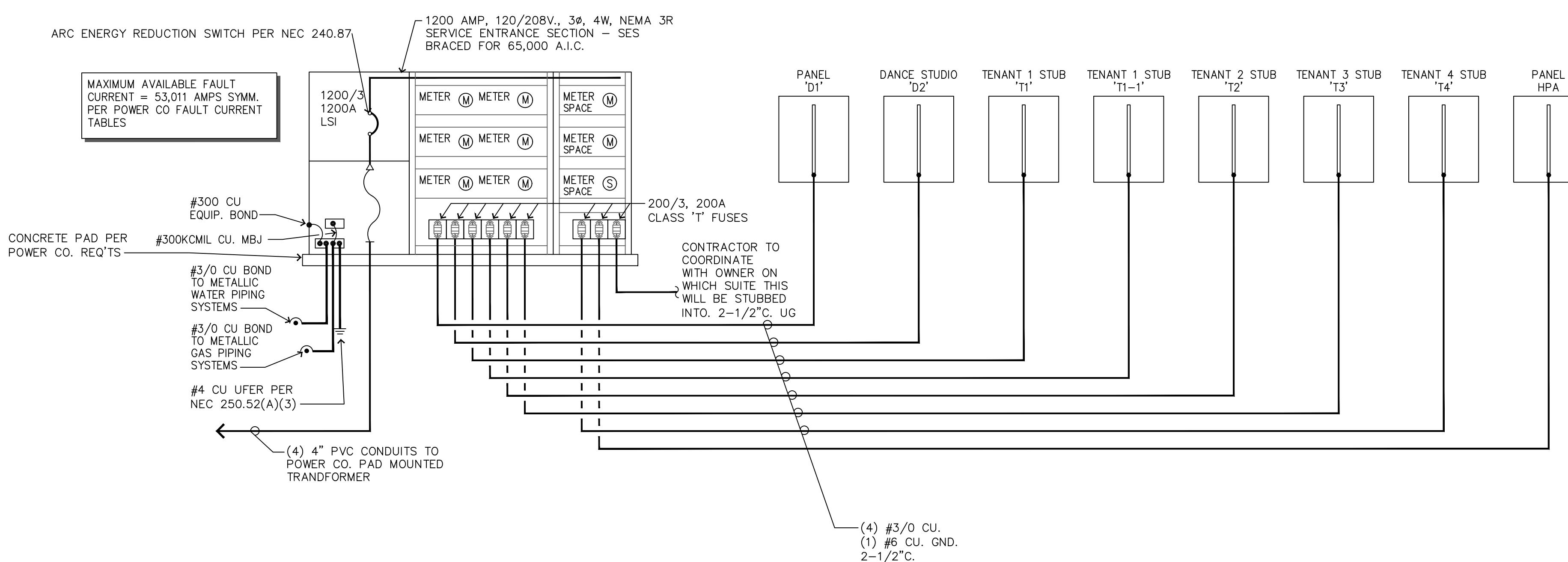
N.T.S.

**LOAD CALCULATION:**SIZED SERVICE 1200A

SUITE D1	=	180 AMPS
SUITE D2	=	112 AMPS
SUITE T1	=	112 AMPS
SUITE T1-1	=	111 AMPS
SUITE T2	=	130 AMPS
SUITE T3	=	184 AMPS
SUITE T4	=	141 AMPS
HOUSE PANEL 'A'	=	12.75 AMPS
<b>TOTAL LOAD ON S.E.S.</b>	<b>=</b>	<b>983 AMPS</b>

PROJECT ADDRESS  
E. WARNER RD  
MESA, AZREVISION HISTORY  
No. Description Date  
MESA BIZ OVERLAY APPLICATION 3/17/25  
EXT LTG COMMENT 12/22/25ISSUED PLAN SETS  
Description & Date

31172  
DAVID G. WATSON  
Electrical  
Engineering  
Certified  
Professional  
Engineer  
State of Arizona  
8/28/2025 9:28:14 PM

**ONE-LINE DIAGRAM - 'SES'**

N.T.S.

1. ALL CONDUCTOR SIZES BASED ON TYPE 'XHHW' & 'THHN/THWN' COPPER.
2. ELECTRICAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY WORK.
3. EVERYTHING IS NEW UNLESS NOTED OTHERWISE.
4. COORDINATION STUDY IS REQUIRED TO PREVENT NUISANCE TRIPPING. MW ENGINEERING, LLC. OFFERS THIS SERVICE. CALL 4807315050 FOR A QUOTE. GEAR MANUFACTURER SUBMITTALS IN PDF REQUIRED FOR QUOTE.

