



Planning Commission Staff Report

TO: PLANNING COMMISSION / DESIGN REVIEW BOARD

FROM: JOSH ROGERS, PLANNER II *JR*
(480) 503-6589, JOSH.ROGERS@GILBERTAZ.GOV

THROUGH: VERONICA GONZALEZ, AICP, PRINCIPAL PLANNER *VG*
(480) 503-6720, VERONICA.GONZALEZ@GILBERTAZ.GOV

MEETING DATE: AUGUST 3, 2022

SUBJECT: DR22-14 JBJ ELECTRIC

STRATEGIC INITIATIVE: Prosperous Community

To allow for the construction of a new office/warehouse building.

RECOMMENDED MOTION

Approve the Findings of Fact and approve DR22-14, JBJ Electric: site plan, landscape, grading and drainage, elevations, floor plans, lighting, colors and materials for approximately 0.98 acres, generally located southwest of the southwest corner of Cooper and Baseline Roads, and zoned Light Industrial (LI) with a Planned Area Development (PAD) overlay.

APPLICANT

Company: Fun Form Architecture
Name: Les Partch
Address: 3545 E. Menlo Cir.
Mesa, AZ 85213

OWNER

Company: JBJ Electric Co.
Name: BJ Roth
Address: 1915 S. Brooks Cir.
Mesa, AZ 85202

Phone: 480-726-0595
 Email: lpartch@funform.net

Email: bjroth@jbjelectric.com

BACKGROUND/DISCUSSION

History

Date	Description
<i>July 8, 2003</i>	Town Council approved Z03-7 (Ordinance No. 1490), rezoning 9.73 acres from (AG) Agricultural to (C-2) General Commercial and 38.41 acres from (AG) Agricultural to (I-1) Garden Industrial, located west of Cooper Road and south of Baseline Road.
<i>September 7, 2004</i>	Town Council approved Z04-20 (Ordinance No. 1593) rezoning approximately 37.32 acres from (I-1) Garden Industrial to (I-1) Garden Industrial with a Planned Area Development (PAD) overlay, located approximately 700 feet west of the Cooper Road and Merrill Avenue intersection.
<i>September 9, 2004</i>	Design Review Board approved the Open Space Plan for the Fuller Commercial Center in S04-12.
<i>October 6, 2004</i>	Planning Commission approved the Preliminary Plat for the Fuller Commercial Center in S04-12.
<i>September 14, 2006</i>	The Town Council approved Final Plat for the Fuller Commercial Center II.

Overview

The applicant is proposing to construct a new 5,000 square foot industrial warehouse/office building and storage yard that will become the primary base of operations for the JBJ Electric contracting company. The subject site is composed of an approximate 1-acre site located on lot 5 in the Fuller Commercial Center and zoned Light Industrial (LI/PAD). The major cross streets are Baseline and Horne.

Surrounding Land Use & Zoning Designations:

	Existing Land Use Classification	Existing Zoning	Existing Use
North	Regional Commercial	Regional Commercial (RC)	Gilbert Commons Shopping Center
South	Light Industrial (LI)	Light Industrial (LI/PAD)	Melody Avenue then Fuller Commercial Center II Lot 8

East	Light Industrial (LI)	Light Industrial (LI/PAD)	Stratton Builders Office Building
West	Light Industrial (LI)	Light Industrial (LI/PAD)	Vacant Land, Fuller Commercial Center II Lot 4
Site	Light Industrial (LI)	Light Industrial (LI/PAD)	Vacant Lot 5

Project Data Table

Site Development Regulations	Required per LDC	Proposed
Maximum Building Height (ft.)/(Stories)	55'/3-Story	23'
Minimum Building Setbacks (ft.)		
Front	25'	25'
Side (Employment)	0'	60'
Rear (Commercial)	0' (gated, fully screened service yard)	102'
Minimum Required Perimeter Landscape Area (ft.)		
Front	20'	20'
Side (Employment, west)	5'	5'
Side (Employment, east)	0' (gated, fully screened service yard)	0'
Rear (Commercial)	0' (gated, fully screened service yard)	0'
Landscaping (% of lot area)	--	18%
Parking Spaces	1,205 office space = 5 3,795 warehouse = 4 9 total spaces	9 spaces

DISCUSSION

Site

The approximately 1-acre subject site is currently vacant land and situated within the established Fuller Commerce Center industrial park located behind the commercial center on the southwest corner of Cooper and Baseline. The site will

have a singular access point off of Melody Avenue and will be shared with the future development on the vacant lot on the western boundary of the site. The development includes gated access from the main parking lot to the rear storage yard located at the west end of the site.

The building will be situated close to Melody Avenue with asphalt parking fields located to the west with the drive aisle continuing north into the secured yard. A fenced contractor's/storage yard with a dust-free, decomposed granite surface is proposed at the north and eastern portions of the site. This yard will consist of outdoor storage of various materials and equipment. Pedestrian access is provided onsite leading from Melody to the building entrance along the western building elevation.

Based on the parking ratios of office/warehouse, nine (9) parking spaces are required and nine (9) spaces are provided. A singular bicycle parking space has been provided at the northwest corner of the building close to the main entrance. Large truck parking and loading will take place at the rear of the site within the enclosed yard, which has two large roll-up doors on the northern building elevation.

Site fencing includes an 8' high wall with smooth face and stained single score CMU around the secured yard area along portions of the south, west, east and northern property boundaries. The proposed wall colors will be Gray for the main color with Umber Brown accent stripping.

Landscape

The landscape plan proposes a varied palette of drought tolerant trees and shrubs. The types of trees include Red Push Pistache, Fruitless Olive, and Texas Mountain Laurel. Site shrubbery and ground cover includes Sierra Apricot Esperanza, Compact Texas Ranger, Blue Ruellia, and Bougainvillea. Foundation landscaping is located along the southern elevation facing Melody Avenue and along the western elevation building. Foundation landscaping will not be provided in the secured area north of the building.

Grading and Drainage

The proposed grading and drainage plan generally meets the requirements of the Town of Gilbert's Engineering Division. Retention capacity for the runoff generated by this and all other lots within the Fuller Commerce Center is provided by a common retention facility located on Tract "A" of the Fuller Commerce Center Final Plat.

Elevations, Floor Plan, Colors and Materials

The proposed building will be one story to a height of 22'-8" and will have a total floor area of approximately 5,000 S.F. consisting of 1,205 S.F. of office and 3,795 S.F. of warehouse. The building walls will be exposed concrete masonry units in a natural gray color with a clear sealer as the primary building material. Accent block with a single score pattern in an umber brown stain color is utilized to provide vertical rhythm and as a horizontal accent band near the top of the wall. Additionally, roof canopies using red standing seam metal are incorporated above the windows. Two high windows with roof canopies have been incorporated along the south elevation within the warehouse space so as to provide additional visual interest and pattern continuity.

Lighting

There are two (2) lighting types proposed, parking lot and wall mounted. Freestanding light poles are proposed on the site within the enclosed storage yard to ensure sufficient site lighting and security. Wall mounted light fixtures are included on the north, east and west elevations of the building. Wall mounted fixtures will be mounted at approx. 14' high. All site lighting will be required to comply with Town codes.

Signage

Signage is not included in this approval. Administrative Design Review approval is required prior to permitting for any new monument signs. Sign permits are required for all signage.

PUBLIC NOTIFICATION AND INPUT

An official notice was posted in all the required public places within the Town and neighborhood notice was provided per the requirements of the Land Development Code (LDC) Section 6.2.6.

Staff has received no comment from the public.

STAFF RECOMMENDATION

Approve the Findings of Fact and approve DR22-14, JBJ Electric: site plan, landscape, grading and drainage, elevations, floor plans, lighting, colors and materials for approximately 0.98 acres, generally located southwest of the southwest corner of Cooper and Baseline Roads, and zoned Light Industrial (LI) with a Planned Area Development (PAD) overlay, subject to conditions:

- a. Construction of the project shall conform to the exhibits approved by the Planning Commission at the August 3, 2022 public hearing.
- b. The construction site plan documents shall incorporate the Standard Commercial and Industrial Site Plan Notes adopted by the Design Review Board on March 11, 2004.

Respectfully submitted,

A handwritten signature in black ink that reads "Joshua Rogers". The signature is written in a cursive, flowing style.

Josh Rogers
Planner II

Attachments and Enclosures:

- 1) Finding of Fact
- 2) Notice of Public Hearing/Vicinity Map
- 3) Site Plan
- 4) Landscape
- 5) Grading and Drainage
- 6) Elevations
- 7) Colors and Materials
- 8) Floor Plans
- 9) Lighting

FINDINGS OF FACT DR22-14, JBJ Electric

1. The project as conditioned is consistent with the applicable Design Guidelines;
2. The project conforms to the General Plan, and specifically to the Land Use, Community Design, and Environmental Planning Elements;
3. The project is consistent with all applicable provisions of the Zoning Code;
4. The project is compatible with adjacent and nearby development; and
5. The project design provides for safe and efficient provisions of public services.

Notice of Public Hearing

PLANNING COMMISSION DATE:

Wednesday, August 3, 2022* TIME: 6:00 PM

LOCATION: Gilbert Police Department Amphitheater
75 E Civic Center Dr., Gilbert, AZ 85296

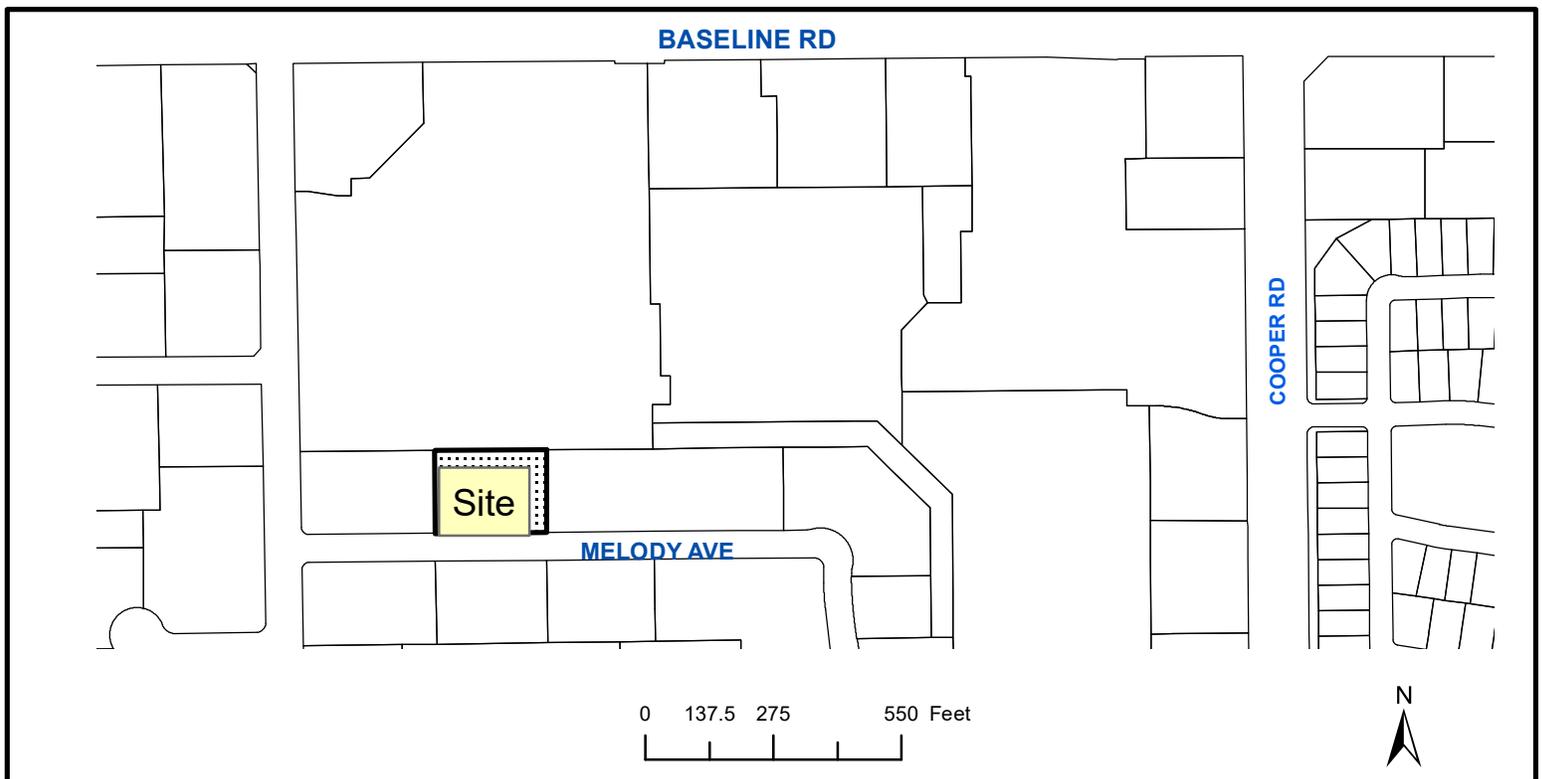
*Call Case Planner to verify date and time: (480) 503-6589

The application is available to the public for review at the Town of Gilbert Planning Division Monday - Thursday 7AM - 6PM. Staff reports and the agenda are available prior to the meeting at www.gilbertaz.gov/departments/development-services/planning/planning-commission

REQUESTED ACTION:

DR22-14 JBJ ELECTRIC COMPANY: Site plan, landscaping, grading and drainage, elevations, floor plans, lighting, and colors and materials for 0.98 acres, generally located southwest of the southwest corner of Cooper and Baseline Roads, and zoned Light Industrial (LI) with a Planned Area Development (PAD) overlay.

SITE LOCATION:

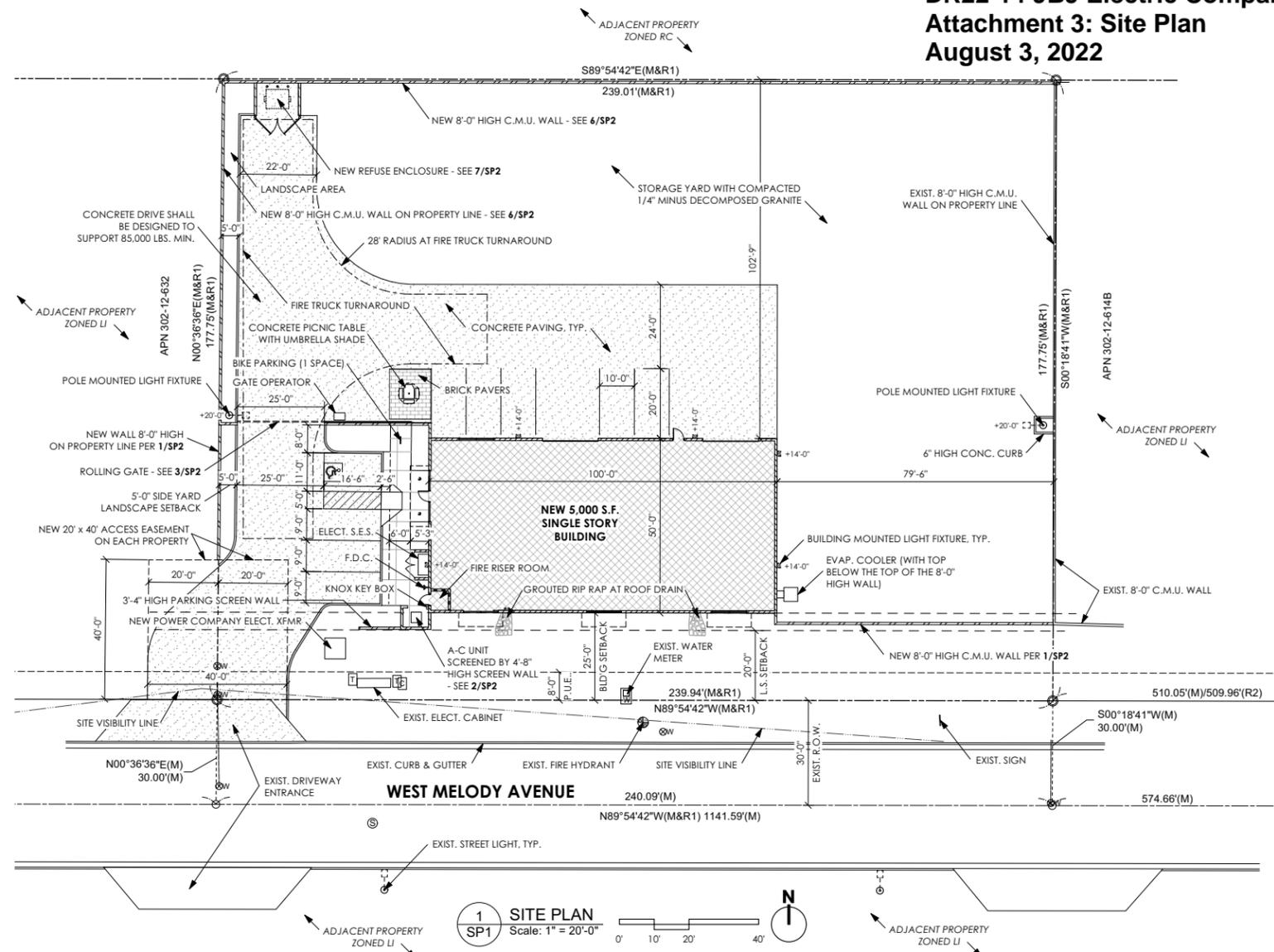


APPLICANT: Functional Formation Architecture
CONTACT: Les Partch
ADDRESS: 3545 Menlo Cir
Mesa, AZ 85213

TELEPHONE: 480-433-7353
E-MAIL: lparch@funform.net



PRELIMINARY
 NOT FOR
 CONSTRUCTION
 OR RECORDING



1 SITE PLAN
 Scale: 1" = 20'-0"

- SITE LIGHTING LEGEND**
- ☉ POLE MOUNTED LIGHT FIXTURE - HEIGHT AS NOTED
 - BUILDING MOUNTED LIGHT FIXTURE
 - SOFFIT MOUNTED DOWN LIGHT

PROJECT DATA:

ADDRESS: 1064 WEST MELODY AVENUE
 GILBERT, AZ 85233

APN: 302-12-633

LEGAL DESCRIPTION: LOT 5 OF FULLER COMMERCIAL CENTER 2

ZONING: LI

ADJACENT ZONING: LI WITHIN 300 FEET, EXCEPT FOR RC LOCATED ALONG NORTH BOUNDARY

NET SITE AREA: 42,566 S.F. (0.977 ± ACRES)

GROSS SITE AREA: 49,767 S.F. (1.142 ± ACRES)

BUILDING AREA: 1,205 S.F. OFFICE AREA
 3,795 S.F. WAREHOUSE
 5,000 S.F. TOTAL

LOT COVERAGE: 11.7%

PARKING RQ'D.: 1,205 S.F. [OFFICE] / 250 = 4.8
 3,795 S.F. [WAREHOUSE] / 1,000 = 3.8

TOTAL VEHICLE PARKING REQUIRED = 9 SPACES

BICYCLE SPACES RQ'D.: 9 / 10 = 1 SPACE

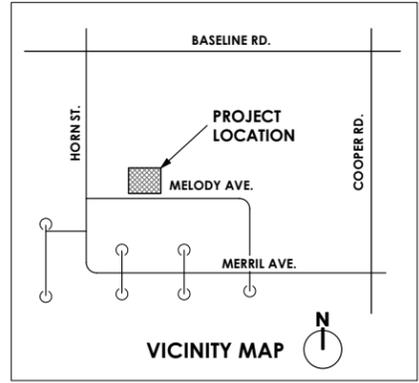
PARKING PROVIDED: 9 [8 STANDARD VEHICLE SPACES, 1 ACCESSIBLE SPACE]
 1 BICYCLE SPACE

ON-SITE LANDSCAPE AREA: 6,474 S.F.

ON-SITE LANDSCAPE COVERAGE: 15.2%

LANDSCAPE AREA IN RIGHT-OF-WAY: 2,607 S.F.

TOTAL LANDSCAPE AREA PROVIDED: 9,081 S.F.



DATE	DESCRIPTION
03/28/22	DRAWING DATE
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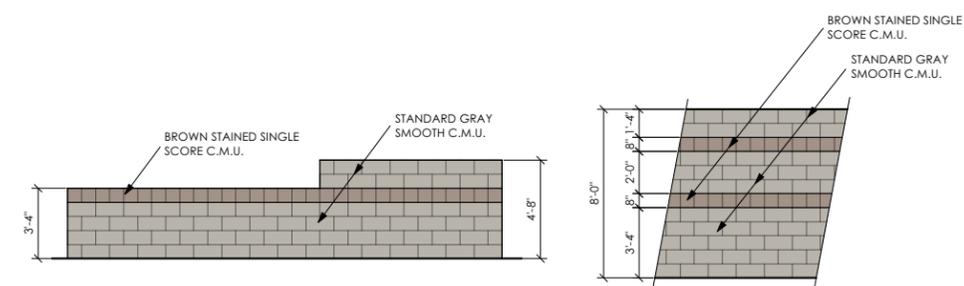
A NEW FACILITY
 FOR
BJJ ELECTRIC COMPANY
 AT
 1064 WEST MELODY AVE.
 GILBERT, ARIZONA

PROJECT
 2124

SHEET NO.
SP1
 OF



**PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING**



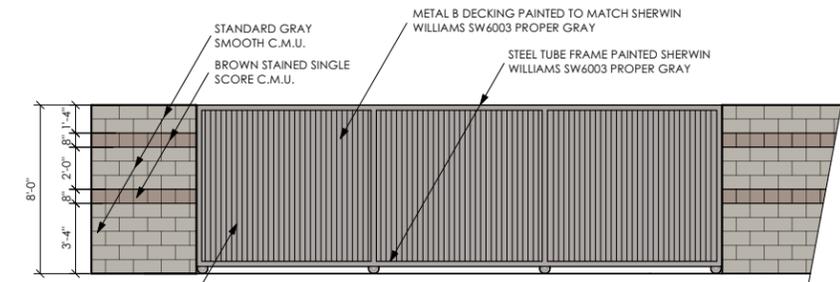
2 SCREEN WALL ELEVATION
SP2 Scale: 1/4" = 1'-0"

1 SITE WALL ELEVATION
SP2 Scale: 1/4" = 1'-0"

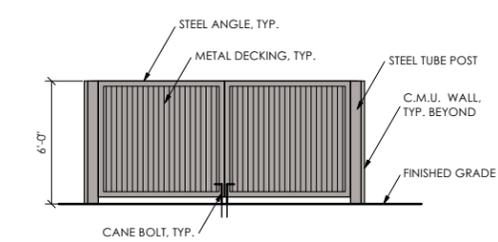
AUTOMATIC GATE SHALL COMPLY WITH FIRE REGULATION 12-503.6

REQUIREMENTS FOR AUTOMATIC GATES:

1. MINIMUM OF 20-FOOT WIDE, CLEAR ACCESS OPENING ON ENTRANCE AND EXIT.
2. GATES SHALL BE OF THE SWINGING OR SLIDING TYPE.
3. GATES INTENDED FOR AUTOMATIC OPERATIONS SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ASTM F 2200.
4. A FIRE DEPARTMENT APPROVED KNOX 3502 SINGLE KEY SWITCH ON A MOUNTING PLATE SHALL BE LOCATED 6 FEET ABOVE GRADE ON THE DRIVER'S SIDE OF ENTRANCE AND EXIT SIDE OF GATES THAT ARE NOT PROVIDED WITH EXIT ACCESS LOOPS.
5. A SIGN PLATE READING: "'F.D. ACCESS'" SHALL BE INSTALLED NO MORE THAN 12 INCHES FROM THE EMERGENCY GATE KEY SWITCH. THE SIGN SHALL BE WEATHER PROOF WITH WHITE LETTERS AND RED REFLECTIVE BACKGROUND. (SEE DETAIL # 1).
6. A TOMAR 1790-1014 STROBE SWITCH SHALL BE INSTALLED ON ENTRANCE AND EXIT SIDES OF GATES THAT ARE NOT PROVIDED WITH EXIT ACCESS LOOPS.
7. EMERGENCY GATE KEY SWITCH AND STROBE SWITCH SHALL OPEN BOTH THE ENTRANCE AND EXIT SIDE OF GATE WHEN ACTIVATED AND BYPASS ALL CONTROLLED ACCESS LOOP SYSTEMS. WHEN THE KEY SWITCH IS RETURNED FROM THE BYPASS POSITION TO ITS ORIGINAL POSITION ALL GATES SHALL RETURN TO THE CLOSED POSITION.
8. BATTERY BACKUP AND/OR MANUAL RELEASE MECHANISM INSTALLED ON ENTRANCE AND EXIT GATES IN CASE OF POWER FAILURE.
9. ELECTRIC GATE OPERATORS SHALL BE LISTED IN ACCORDANCE WITH UL 325.

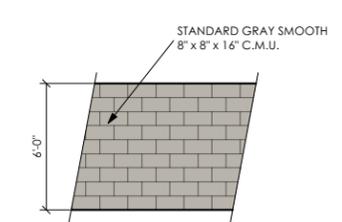


3 GATE ELEVATION
SP2 Scale: 1/4" = 1'-0"



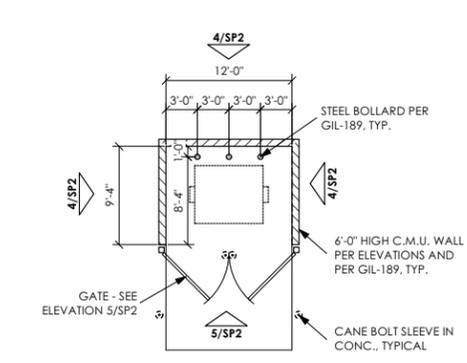
NOTE:

- 1) ALL METAL POSTS, HINGES, FRAMES, METAL DECKING, ETC. SHALL BE PAINTED SHERWIN WILLIAMS SW6003 PROPER GRAY
- 2) PROVIDE HOLES IN PAVING FOR CANE BOLT AT THE FULLY OPEN AND CLOSED POSITIONS FOR EACH GATE LEAF.



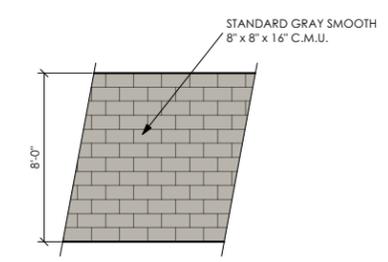
4 REFUSE WALL ELEVATION
SP2 Scale: 1/4" = 1'-0"

5 REFUSE GATE ELEVATION
SP2 Scale: 1/4" = 1'-0"



7 REFUSE ENCLOSURE PLAN
SP2 Scale: 1/8" = 1'-0"

NOTE: SEE GIL-180 FOR ADDITIONAL INFORMATION



6 SITE WALL ELEVATION
SP2 Scale: 1/4" = 1'-0"

03/23/22 DRAWING DATE

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A NEW FACILITY
FOR
JBJ ELECTRIC COMPANY
AT
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT 2124

SHEET NO.
SP2
OF



PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

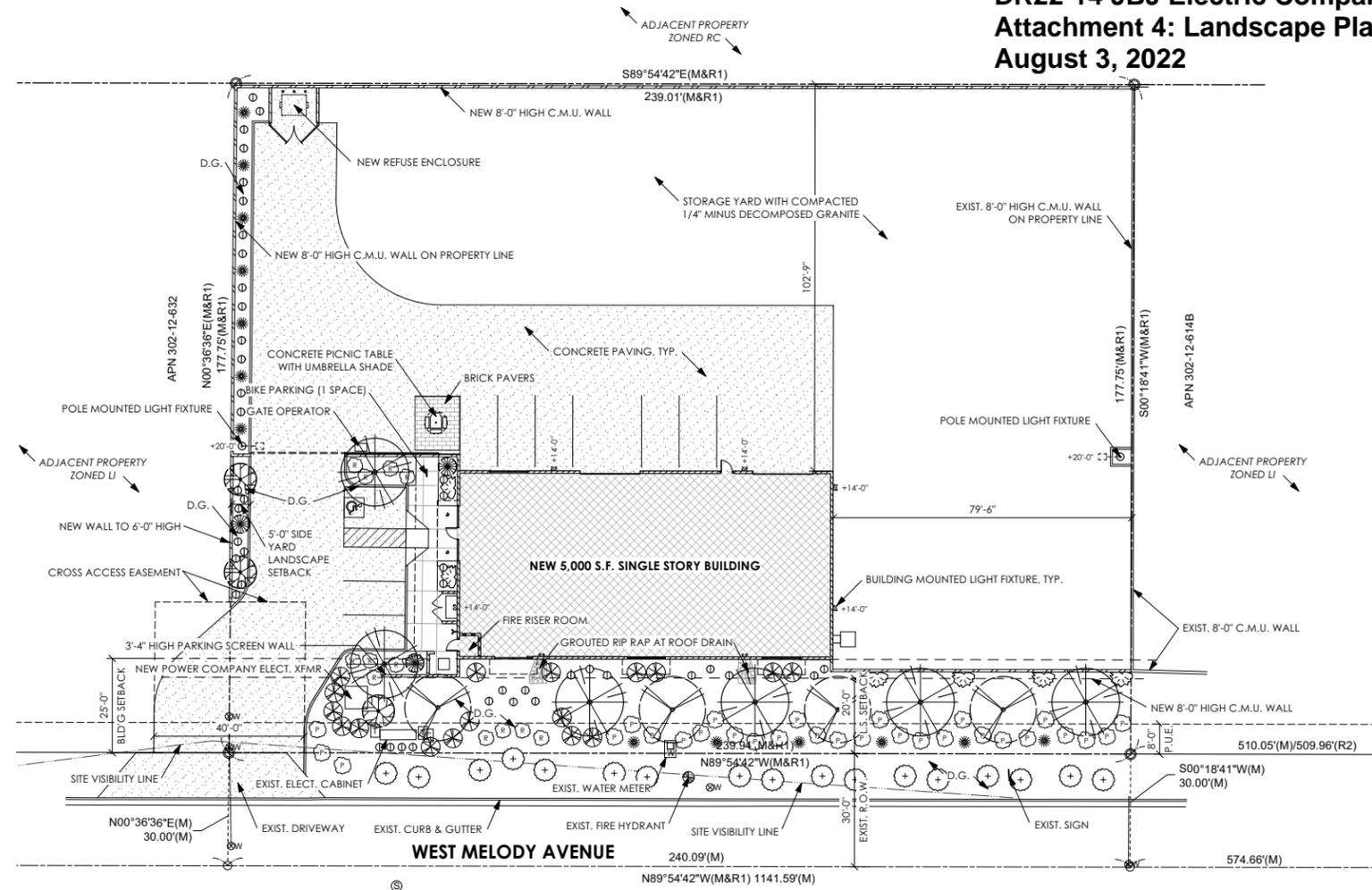
PLANT MATERIALS LEGEND			
SYMBOL	NAME	SIZE	QUANTITY
TREES			
	PISTACIA x "RED PUSH"	24" BOX	6
	RED PUSH PISTACHE		
	OLEA EUROPAEA	24" BOX	4
	FRUITLESS OLIVE		
	TEXAS MOUNTAIN LAUREL	24" BOX	3
	SOPHORA SECUNDIFLORA		
SHRUBS			
	TECOMA X SIERRA APRICOT PP#20246	5 GAL.	3
	SIERRA APRICOT ESPERANZA		
	LEUCOPHYLLUM FRUTESCENS 'COMPACTA'	5 GAL.	17
	COMPACT TEXAS RANGER, TEXAS SAGE		
	RUELLIA BRITTONIANA	5 GAL.	43
	BLUE RUELLIA		
	BOUGAINVILLEA species 'BARBARA KARST'	5 GAL.	6
	BOUGAINVILLEA		
GROUND COVER			
	EREMOPHILA GLABRA 'MINGENEW GOLD'	1 GAL.	17
	OUTBACK SUNRISE EMU		
	DALLAS RED LANTANA	1 GAL.	12
	LANTANA LANTANA CAMARA 'DALLAS RED'		
	PURPLE LANTANA	1 GAL.	29
	LANTANA MONTEVIDENSIS DELICATISSIMA		
ACCENTS			
	HESPERALOE PARVIFLORA	5 GAL.	13
	RED YUCCA		

DG = DECOMPOSED GRANITE - 1/2" SCREENED APACHE BROWN
2" DEPTH IN ALL PLANTING AREAS, TYPICAL.

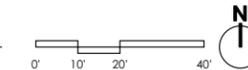
NOTE:

1) ALL LANDSCAPING SHALL COMPLY WITH TOWN OF GILBERT STANDARD DETAIL GIL-212 AT TIME OF INSTALLATION. ALL TREES WITHIN THE SIGHT LINE SHALL CANOPY AT 7' WHEN INSTALLED AND NO VEGETATION OR HARDSCAPE THAT WILL BE ABOVE 24" (AT MATURITY) WILL BE ALLOWED WITHIN THE SIGHT LINE.

2) IRRIGATION CONTROLLER SHALL BE HUNTER MODEL PHC-600.



1 SITE PLAN
LS1 Scale: 1" = 20'-0"



LANDSCAPE DATA:

NET SITE AREA:	42,566 S.F. (0.977 ± ACRES)
GROSS SITE AREA:	49,767 S.F. (1.142 ± ACRES)
ON-SITE LANDSCAPE AREA:	6,474 S.F.
ON-SITE LANDSCAPE COVERAGE:	15.2%
OFF-SITE LANDSCAPE AREA:	2,607 S.F.
TOTAL LANDSCAPE AREA PROVIDED:	9,081 S.F.
OPEN SPACE PROVIDED:	18.2% (9,012 S.F. / 49,767 S.F.)

PERIMETER LANDSCAPE SUMMARY:

STREET FRONTAGE (MELODY AVE.)

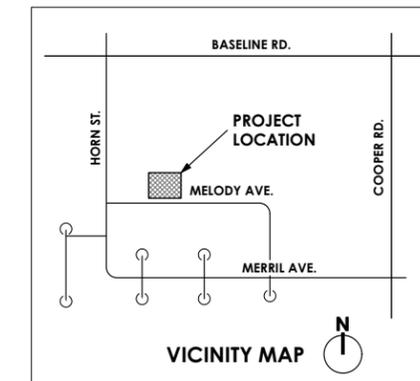
239' - 20" (DRIVE) = 219' LINEAL FEET (4,340 S.F.)

REQUIRED	PROVIDED
TREES: 9 (219' / 25')	9
SHRUBS: 27 (3 PER TREE)	62 (INCLUDING ACCENTS)
GROUND COVER PERCENTAGE INCLUDING SHRUBS:	25%

SIDE YARD (EAST)

35' x 5' = 175 S.F.

REQUIRED	PROVIDED
TREES: 1 (175 S.F. / 1000 x 3)	2
SHRUBS: 2 (355 S.F. / 1000 x 5)	9
GROUND COVER PERCENTAGE INCLUDING SHRUBS:	20%



03/28/22 DRAWING DATE



A NEW FACILITY

FOR

BJB ELECTRIC COMPANY LLC

AT

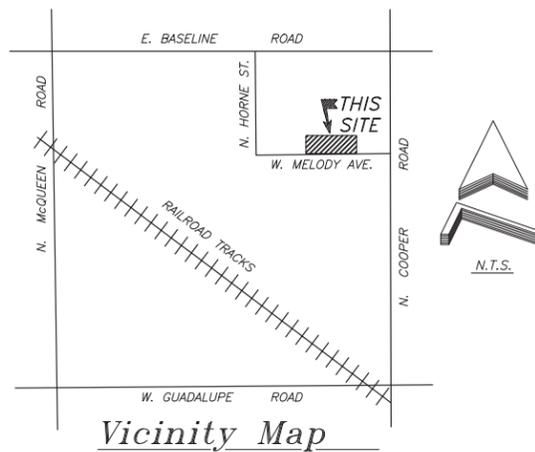
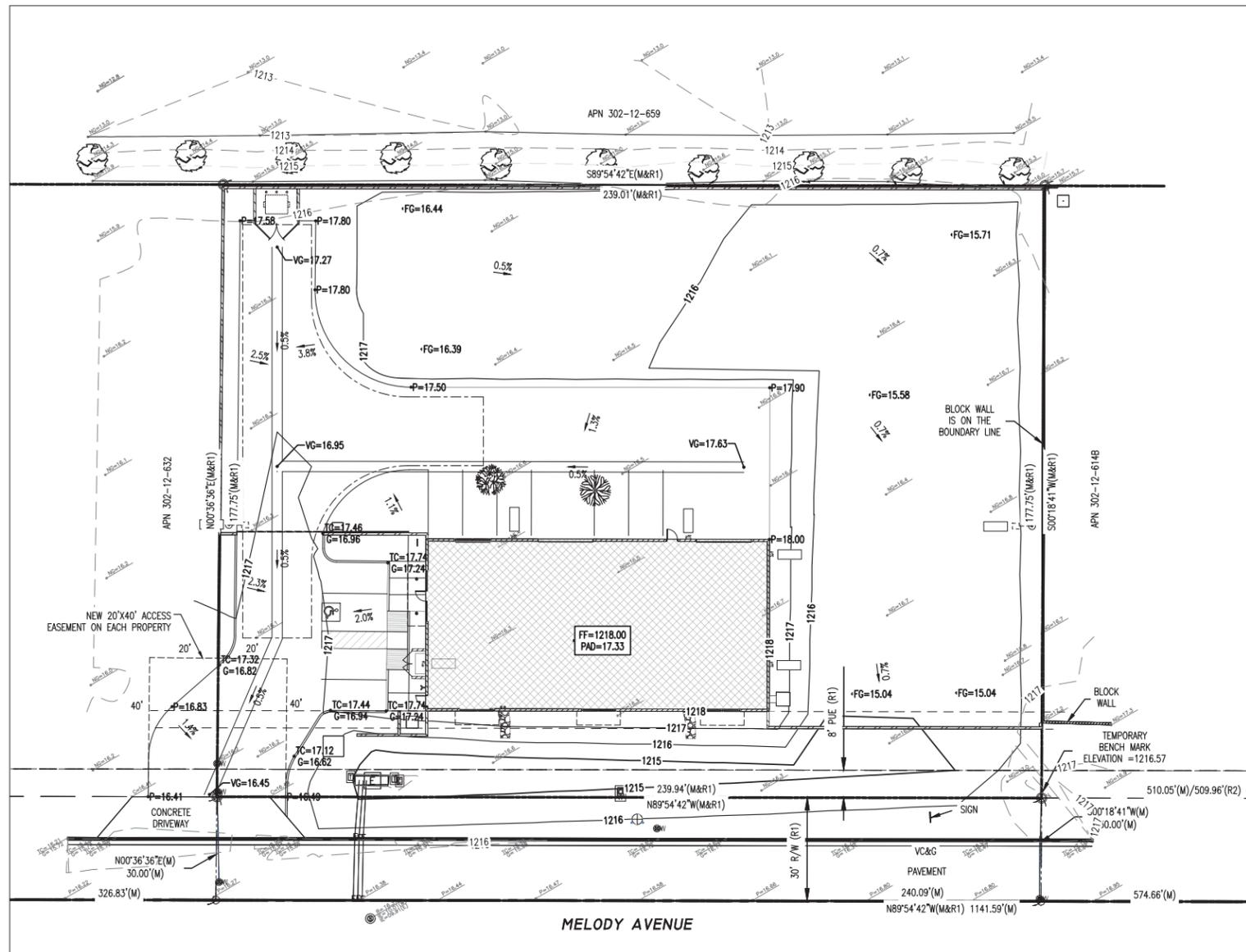
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT 2124

SHEET NO.

LS1

OF

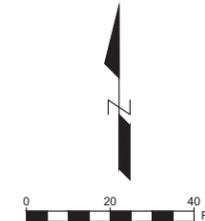


RETENTION CALCULATION
RETENTION CAPACITY FOR THE RUNOFF GENERATED BY THIS AND ALL OTHER LOTS IN "FULLER COMMERCE CENTER" IS PROVIDED BY A COMMON RETENTION FACILITY LOCATED ON TRACT "A" OF FULLER COMMERCE CENTER
II FINAL PLAT.

FEMA FLOOD ZONE:
THIS SITE IS LOCATED IN FLOOD ZONE "X" AS DESIGNATED IN FEMA FLOOD MAP # 04013C2270M, DATED NOVEMBER 4, 2015. ZONE "X" IS DEFINED AS: "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS 1.0% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH AREAS LESS THAN 1 SQUARE MILE; AREAS PROTECTED BY LEVEES FROM 1.0% FLOOD CHANCE."

ENGINEER:
NPS PINAL INC.
2550 S. SANTAN VILLAGE PKWY #4057
GILBERT, ARIZONA 85295
(480)788-6830
NPSPINAL@GMAIL.COM

ARCHITECT:
FUN FORM ARCHITECTURE, PLLC
3545 EAST MENLO CIRCLE
MESA, AZ 85213
PHONE: (480)726-0595
CONTACT: LESLEY PARTCH



REVISIONS:

NPS PINAL INC.
AN ARIZONA NONPROFIT CORPORATION
2550 S. SANTAN VILLAGE PKWY #4057
GILBERT, ARIZONA 85295
(480) 788-6830
NPSPINAL@GMAIL.COM

PRELIMINARY GRADING AND DRAINAGE PLAN

PROJECT:
JBU ELECTRIC COMPANY LLC
1064 WEST MELODY AVENUE GILBERT, AZ 85233

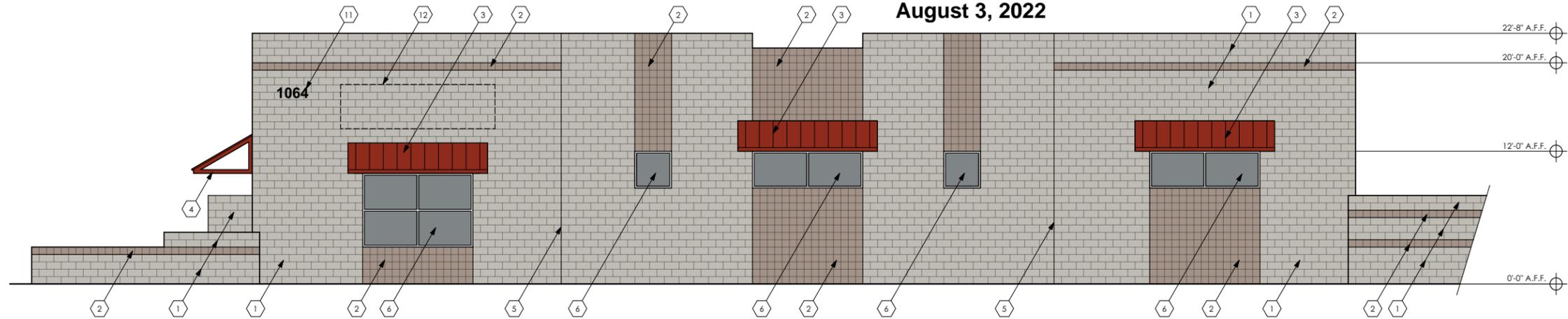


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P21041
DRAWN BY:

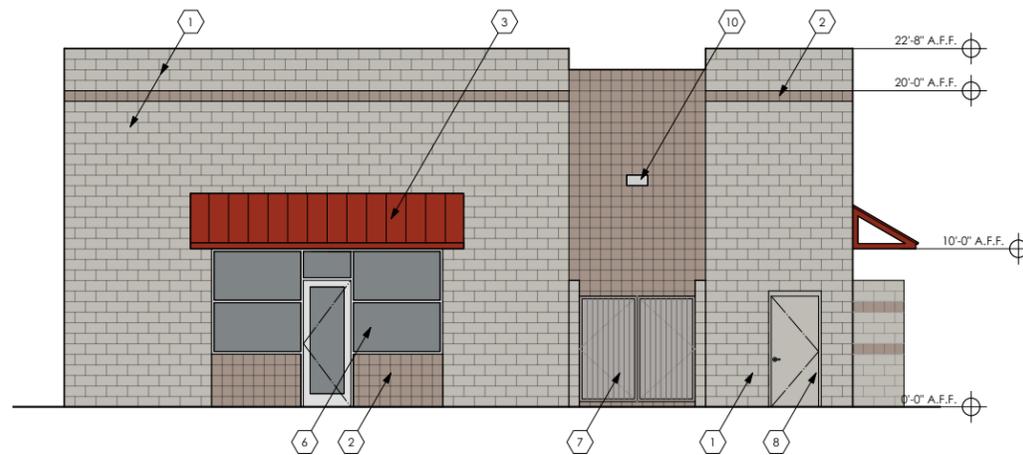
SHEET NO.
C1



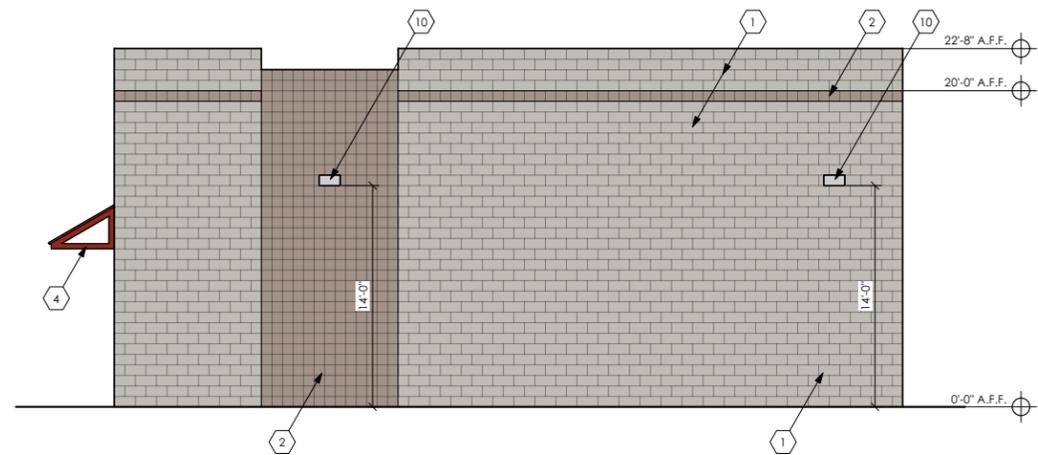
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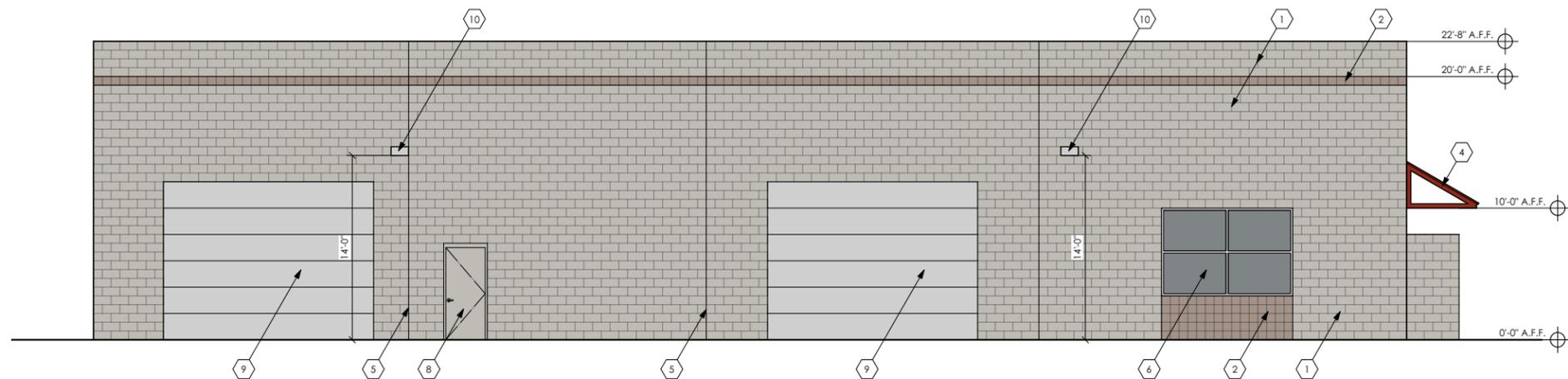
1 SOUTH ELEVATION
A0.3 Scale: 3/16" = 1'-0"



3 WEST ELEVATION
A0.3 Scale: 3/16" = 1'-0"



2 EAST ELEVATION
A0.3 Scale: 3/16" = 1'-0"



4 NORTH ELEVATION
A0.3 Scale: 3/16" = 1'-0"

ELEVATION MATERIAL KEY NOTES:

1. STANDARD GRAY 8" x 8" x 16" C.M.U. WITH CLEAR SEALER, TYPICAL.
2. SINGLE SCORE 8" x 8" x 16" C.M.U. WITH UMBER BROWN STAIN COLOR, TYPICAL.
3. STANDING SEAM METAL ROOF - COLONIAL RED COLOR BY PAC-CLAD.
4. STEEL TUBE FRAME PAINTED TO MATCH METAL ROOF COLOR.
5. C.M.U. CONTROL JOINT, TYPICAL.
6. GLASS WINDOW (VITRO SOLARBAN R100 (2) ON ACUITY) IN CLEAR ANODIZED ALUMINUM FRAME, TYPICAL.
7. METAL B-DECK SCREEN AT ELECTRICAL SES PAINTED TO MATCH SHERWIN WILLIAMS SW6003 PROPER GRAY.
8. METAL DOOR PAINTED TO MATCH SHERWIN WILLIAMS SW6003 PROPER GRAY.
9. METAL OVERHEAD DOOR PAINTED TO MATCH SHERWIN WILLIAMS SW6003 PROPER GRAY.
10. BUILDING MOUNTED LIGHT (NATURAL ALUMINUM FINISH) TYPICAL.
11. BUILDING ADDRESS NUMBERS IN BLACK.
12. LOCATION OF FUTURE SIGN ON BUILDING.

03/23/22 DRAWING DATE

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A NEW FACILITY
FOR
BJJ ELECTRIC COMPANY
AT
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT
2124

SHEET NO.
A0.3
OF

COLOR & MATERIAL BOARD



1 STANDARD GRAY SMOOTH 8"
x 8" x 16" C.M.U.



2 UMBER BROWN STAINED SINGLE
SCORE 8" x 8" x 16" C.M.U.



3 STANDING SEAM METAL ROOF -
COLONIAL RED COLOR BY
PAC-CLAD.

4 STEEL TUBE FRAME PAINTED TO
MATCH COLONIAL RED



6 GLASS WINDOW - VITRO
SOLARBAN R100 (2) ON ACUITY



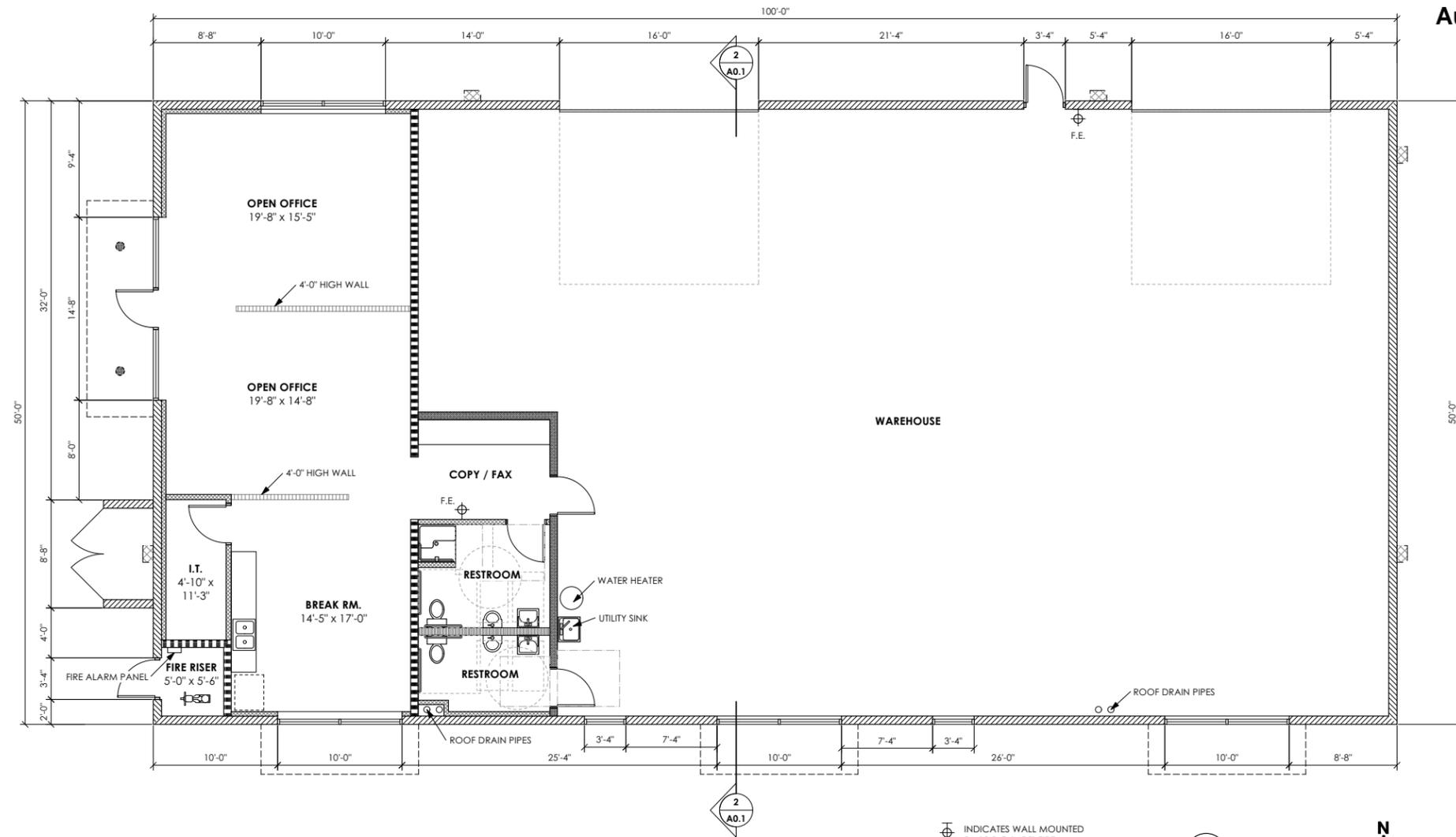
7 METAL B-DECK GATE PAINTED TO MATCH
SHERWIN WILLIAMS SW6003 PROPER GRAY.

8 METAL DOOR PAINTED TO MATCH
SHERWIN WILLIAMS SW6003 PROPER GRAY.

9 METAL OVERHEAD DOOR PAINTED TO MATCH
SHERWIN WILLIAMS SW6003 PROPER GRAY.

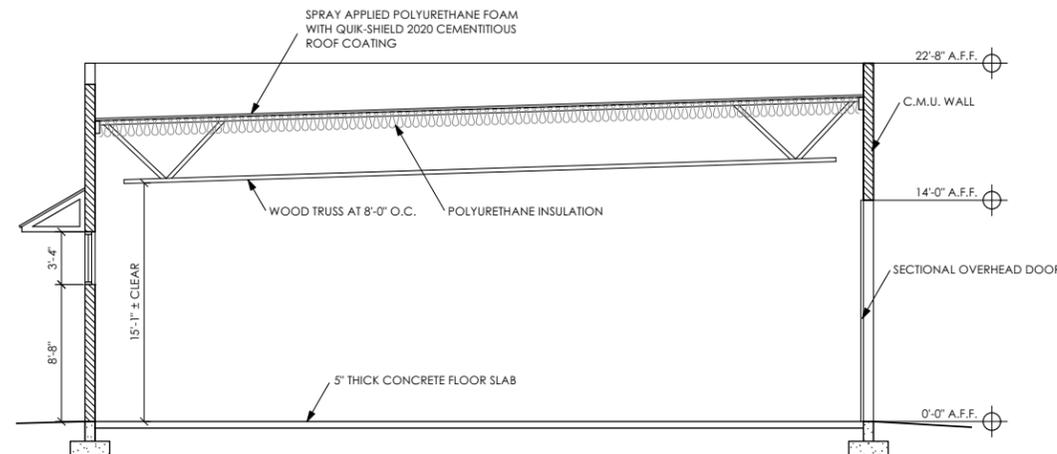


**PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING**



03/23/22 DRAWING DATE

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2 SECTION
Scale: 3/16" = 1'-0"

A NEW FACILITY
FOR
BJJ ELECTRIC COMPANY
AT
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT 2124

SHEET NO.
A0.1
OF

ELECTRICAL SYSTEM SPECIFICATIONS

1.0 GENERAL

1.1 THE WORK SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, CONSTRUCTION FACILITIES AND INCIDENTALS NECESSARY FOR THE COMPLETE AND PROPERLY WORKING INSTALLATION OF THE ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. COMPLY WITH THE LATEST EDITION IN FORCE OF THE NFPA CODES INCLUDING THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES.

1.2 THE CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY EXISTING CONDITIONS THAT MAY INFLUENCE THE BID OR WORK. NO ALLOWANCES SHALL BE MADE FOR THE FAILURE OF THE CONTRACTOR TO ACCOMMODATE ANY EXISTING CONDITIONS IN THE BID. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY CONFLICT IN THE DRAWINGS, SPECIFICATIONS OR DESIGN PRIOR TO THE BID SUBMITTAL IN WRITING WITH THE ENGINEER.

1.3 MAKE APPLICATION AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY MUNICIPAL AND STATE AUTHORITIES.

1.4 DRAWINGS ARE DIAGRAMMATIC. LIGHTING AND OUTLET LOCATIONS ARE APPROXIMATE. REFER TO ARCHITECTURAL, MECHANICAL AND STRUCTURAL PLANS REGARDING AVAILABLE SPACE AND CHECK FIELD CONDITIONS BEFORE MAKING ELECTRICAL INSTALLATIONS. CIRCUIT EQUIPMENT AS SHOWN ON THE DRAWINGS, MAKING REVISIONS ONLY WITH THE EXPRESSED CONSENT OF THE ARCHITECT/ENGINEER.

1.5 ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS OR SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. VERBAL APPROVALS WILL BE PROVIDED IF THE ENGINEER DETERMINES IT TO BE JUSTIFIED AND MUST BE CONFIRMED IN WRITING TO BE FINAL.

1.6 MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CURRENT ELECTRICAL AND MECHANICAL ENGINEERING PRACTICES. PROVIDE NEW, STANDARD PRODUCTS LISTED BY UL. SIMILAR ITEMS OF MATERIAL SHALL BE OF THE SAME TYPE AND MANUFACTURE. ALL EXPOSED CONDUIT AND DEVICES SHALL BE TRUE TO LINE, PLUMB AND ADEQUATELY SECURED IN PLACE. ALL WIRING DEVICES, FIXTURES AND PANELBOARDS SHALL BE PROTECTED FROM MOISTURE, PLASTER AND DUST DURING STORAGE AND BUILDING CONSTRUCTION. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

1.7 THE WORK SHALL BE INSPECTED FOR COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS BY THE OWNER'S REPRESENTATIVE.

2.0 SUBMITTALS

2.1 SUBMIT SIX COPIES OF DESCRIPTIVE BROCHURES FOR ALL LIGHTING FIXTURES AND DETAILED SHOP DRAWINGS OF PANEL, SERVICE ENTRANCE DISTRIBUTION PANEL OR OTHER FABRICATED EQUIPMENT TO THE ARCHITECT PRIOR TO ORDERING AND IN A TIMELY MANNER. NO SUCH EQUIPMENT SHALL BE MANUFACTURED UNTIL APPROVED BY THE ENGINEER AND WHERE APPLICABLE, THE SERVING UTILITY.

2.2 SUBMIT SIX COPIES OF OPERATING AND MAINTENANCE MANUALS. MANUALS SHALL BE ASSEMBLED IN A BINDER WITH A CLEAR TABLE OF CONTENTS, MANUFACTURERS STANDARD PRODUCT DATA, MANUFACTURES CURRENT PRINTED OPERATING AND MAINTENANCE INSTRUCTIONS, LIST OF AVAILABLE SPARE PARTS AND ALL WARRANTY MANUALS.

3.0 WARRANTY

3.1 THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL FURNISHED BY HIM AND ALL WORKMANSHIP UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF WORK UNDER THIS CONTRACT. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS CONTRACT OR WORKMANSHIP PERFORMED HEREUNDER SHALL BE MADE GOOD PROMPTLY AT THIS CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL ACCEPT THIS CONDITION AND FULLY UNDERSTAND ITS PROVISIONS PRIOR TO THIS CONTRACT BEING AWARDED AND NO CLAIM FOR EXTRA COMPENSATION WILL BE ALLOWED FOR CORRECTION OF FAULTY WORK OR REPLACING DEFECTIVE MATERIAL.

3.2 THE WORK SHALL COMPLY WITH UTILITY COMPANY PUBLISHED STANDARDS. COMPLY WITH NFPA 70.

4.0 COORDINATION

4.1 IN GENERAL, COORDINATE WORK THOROUGHLY WITH OTHER TRADES, THE OWNER AND UTILITY COMPANIES TO PROVIDE EFFICIENT FLOW OF WORK AND TIMELY COMPLETION OF THE CONTRACT.

4.2 COORDINATE CHASES, SLOTS, INSERTS, SLEEVES, AND OPENINGS FOR ELECTRICAL SUPPORTS, RACEWAYS, AND CABLE WITH GENERAL CONSTRUCTION WORK.

4.3 SEQUENCE, COORDINATE, AND INTEGRATE INSTALLING ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE INSTALLATION OF LARGE EQUIPMENT THAT REQUIRES POSITIONING BEFORE CLOSING IN THE BUILDING.

4.4 COORDINATE ELECTRICAL SERVICE CONNECTIONS TO COMPONENTS FURNISHED BY UTILITY COMPANIES.

4.5 COORDINATE INSTALLATION AND CONNECTION OF EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES, INCLUDING PROVISION FOR SERVICE ENTRANCES AND ELECTRICITY-METERING COMPONENTS.

4.6 COORDINATE LOCATION OF ACCESS PANELS AND DOORS FOR ELECTRICAL ITEMS THAT ARE CONCEALED BY FINISHED SURFACES.

4.7 WHERE ELECTRICAL IDENTIFICATION DEVICES ARE APPLIED TO FIELD-FINISHED SURFACES, COORDINATE INSTALLATION OF IDENTIFICATION DEVICES WITH COMPLETION OF FINISHED SURFACE.

5.0 PRODUCTS

5.1 RACEWAYS:
EMT: ELECTRICAL METALLIC TUBING; ANSI C80.3, ZINC-COATED STEEL, WITH COMPRESSION FITTINGS.
IMC: INTERMEDIATE METAL CONDUIT; ANSI C80.6, ZINC-COATED STEEL, WITH THREADED FITTINGS.
RMC: RIGID METAL CONDUIT; GALVANIZED RIGID STEEL; ANSI C80.1.
RNC: RIGID NONMETALLIC CONDUIT; NEMA TC2, SCHEDULE 40 PVC, WITH NEMA TC3 FITTINGS.
RACEWAY FITTINGS: SPECIFICALLY DESIGNED FOR RACEWAY TYPE WITH WHICH USED.

5.2 CONDUCTORS, CABLES, AND CONNECTIONS:
CONDUCTORS, NO. 10 AWG AND SMALLER: SOLID COPPER.
CONDUCTORS, LARGER THAN NO. 10 AWG: STRANDED COPPER.
INSULATION: THERMOPLASTIC, RATED 600V, 90° C MINIMUM, TYPE THHN–THWN, XHHW–XHHN OR USE DEPENDING ON APPLICATION.
WIRE CONNECTORS AND SPLICES: UNITS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS SUITABLE FOR SERVICE INDICATED.

5.3 SUPPORTING DEVICES MATERIAL:
COLD-FORMED STEEL, WITH CORROSION-RESISTANT COATING.
METAL ITEMS FOR USE OUTDOORS OR IN DAMP LOCATIONS: HOT-DIP GALVANIZED STEEL.
SLOTTED-STEEL CHANNEL: FLANGE EDGES TURNED TOWARD WEB, AND 9/16-INCH– (14-MM-) DIAMETER SLOTTED HOLES AT A MAXIMUM OF 2 INCHES (50 MM) O.C., IN WEBS. STRENGTH RATING TO SUIT STRUCTURAL LOADING.
SLOTTED CHANNEL FITTINGS AND ACCESSORIES: RECOMMENDED BY THE MANUFACTURER FOR USE WITH THE TYPE AND SIZE OF CHANNEL WITH WHICH USED.
MATERIALS: SAME AS CHANNELS AND ANGLES, EXCEPT METAL ITEMS MAY BE STAINLESS STEEL.

5.4 RACEWAY AND CABLE SUPPORTS:
MANUFACTURE CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING-STEEL LAMPS OR QUICK-TYPE HANGERS.
PIPE SLEEVES: ASTM A 53, TYPE E, GRADE A, SCHEDULE 40, GALVANIZED STEEL, PLAIN ENDS.
CABLE SUPPORTS FOR VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING WEDGING PLUG FOR NON-ARMORED ELECTRICAL CABLES IN RISER CONDUITS. PLUGS HAVE NUMBER AND SIZE OF CONDUCTOR GRIPPING HOLES AS REQUIRED TO SUIT INDIVIDUAL RISERS. BODY CONSTRUCTED OF MALLEABLE-IRON CASTING WITH HOT-DIP GALVANIZED FINISH.
EXPANSION ANCHORS: CARBON-STEEL WEDGE OR SLEEVE TYPE.
TOGGLE BOLTS: ALL-STEEL SPRINGHEAD TYPE.
VERIFY THAT DEVICES BELOW ARE PERMISSIBLE IN PROJECT.
POWDER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL.

5.5 PANELBOARDS:
PANELBOARDS SHALL BE TYPE AS SHOWN ON PLANS, WITH THERMAL MAGNETIC QUICK-BREAK, QUICK-MAKE, FULL SIZE BREAKERS AND SPACES AS INDICATED ON THE DRAWINGS, EQUAL TO SQUARE D, TYPE "QO" LOAD CENTERS, BREAKERS SHALL HAVE 10,000 AIC RATING UNLESS NOTED OTHERWISE ON THE DRAWINGS. DISTRIBUTION PANELBOARDS SHALL BE BOLT ON TYPE; WITH THERMAL MAGNETIC, QUICK-BREAK, QUICK-MAKE, FULL SIZE BREAKERS AND SPARES AS INDICATED ON THE DRAWINGS, EQUAL TO SQUARE D, TYPE NOBIL. BREAKERS SHALL HAVE 10,000 AIC RATING UNLESS NOTED OTHERWISE ON THE DRAWINGS.
FRONTS OF CABINETS SHALL BE FLUSH OR SURFACE MOUNTED AS SHOWN ON DRAWINGS WITH A DIRECTORY CARD NEATLY TYPED OR PRINTED, WHICH IDENTIFIES THE LOADS SERVED. EXTERIOR PANELS SHALL HAVE RAIN-TIGHT ENCLOSURES EQUIPPED WITH A DOOR LOCK.
MANUFACTURERS SHALL BE SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.

5.6 SAFETY SWITCHES:
SHALL BE NEMA, HEAVY DUTY, QUICK-MAKE, QUICK BREAK. SWITCHES EXPOSED OUTDOORS SHALL HAVE NEMA 3R RAIN-TIGHT ENCLOSURES.
MANUFACTURERS SHALL BE SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.

5.7 FUSES:
SHALL BE BUSSMANN FUSETRON, DUAL-ELEMENT AND LOW-PEAK TYPES OR TYPE INDICATED ON DRAWINGS. PROVIDE 3 SPARE FUSES OF EACH TYPE AND RATING USED TO THE OWNER AS SPARES.

5.8 ELECTRICAL IDENTIFICATION:
IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70 AND THESE SPECIFICATIONS.
TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
COLOR-CODING CABLE TIES: TYPE 6/6 NYLON, SELF-LOCKING TYPE. COLORS TO SUIT CODING SCHEME.
UNDERGROUND WARNING TAPE: PERMANENT, BRIGHT-COLORED.
OUTDOOR WARNING TAPE: VINYL TAPE COMPOUNDED FOR PERMANENT DIRECT-BURIAL SERVICE, AND WITH THE FOLLOWING FEATURES:
NOT LESS THAN 6 INCHES WIDE BY 4 MILS THICK (150 MM WIDE BY 0.102 MM THICK).
EMBEDDED CONTINUOUS METALLIC STRIP OR CORE WITH A PRINTED LEGEND THAT INDICATES TYPE OF UNDERGROUND LINE.
ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. INCH AND 1/8-INCH MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
WARNING AND CAUTION SIGNS: PREPRINTED; COMPLY WITH 29 CFR 1910.145, CHAPTER XVII. COLORS, LEGEND, AND SIZE APPROPRIATE TO EACH APPLICATION.
INTERIOR UNITS: ALUMINUM, BAKED-ENAMEL-FINISH, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS.
EXTERIOR UNITS: WEATHER-RESISTANT, NON-FADING, PREPRINTED, CELLULOSE-ACETATE BUTYRATE WITH 0.0396-INCH (1-MM), GALVANIZED-STEEL BACKING, 1/4-INCH (6-MM) GROMMETS FOR CORNERS FOR MOUNTING.
FASTENERS FOR NAMEPLATES AND SIGNS: SELF-TAPPING, STAINLESS-STEEL SCREWS OR NO. 10/32 STAINLESS-STEEL MACHINE SCREWS WITH NUTS AND FLAT AND LOCK WASHERS.

5.9 SERVICE ENTRANCE EQUIPMENT:
THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SERVICE ENTRANCE EQUIPMENT AS INDICATED BY THE DRAWINGS AND REQUIRED TO COMPLETE THE ELECTRICAL SYSTEM FROM THE POINT OF SERVICE BY THE POWER COMPANY.
THE SERVICE SHALL BE UNDERGROUND TO THE ENTRANCE EQUIPMENT AND METERING BY THE POWER COMPANY OR AS OTHERWISE INDICATED. THE SERVICE NEUTRAL SHALL BE GROUNDED WITH CODE SIZE CONDUCTOR.
ALL METERING PROVISIONS AND OTHER SERVICE WORK SHALL MEET REQUIREMENTS OF THE POWER COMPANY. THE CONTRACTOR SHALL PAY ALL CHARGES FOR SERVICE TO THE POWER COMPANY.
APPROVED MANUFACTURERS SHALL BE SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.

5.10 GROUNDING:
PROVIDE GROUNDING CONDUCTOR OF SIZE INDICATED ON DRAWINGS IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES. BOND THE INTERIOR WATER PIPE SYSTEM TO THE MAIN ELECTRICAL GROUNDING SYSTEM.

5.11 CONCRETE BASES:
CONCRETE FORMS AND REINFORCEMENT MATERIALS: AS SPECIFIED IN DIVISION 3 SECTION CAST-IN-PLACE CONCRETE.
CONCRETE: 3000-PSI, 28-DAY COMPRESSIVE STRENGTH.

6.0 EXECUTION

6.1 ELECTRICAL EQUIPMENT INSTALLATION:
HEADROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE MAXIMUM POSSIBLE HEADROOM.

6.2 MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.

6.3 EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.

6.4 RIGHT OF WAY: GIVE TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

6.5 RACEWAY APPLICATION:
OUTDOOR INSTALLATIONS:
EXPOSED: IMC, RMC, RNC,
CONCEALED: IMC, RMC, RNC.
UNDERGROUND, SINGLE RUN: RNC, RMC.
UNDERGROUND, GROUDED: RNC.
BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR TYPE 4, UNLESS OTHERWISE INDICATED.
INDOOR INSTALLATIONS:
EXPOSED: EMT EXCEPT IN WET OR DAMP LOCATIONS, USE IMC.
CONCEALED IN WALLS OR CEILINGS: EMT.
IN CONCRETE SLAB: RNC, IMC, RMC.
BELOW SLAB ON GRADE OR IN CRAWLSPACE: RNC, IMC, RMC.

6.6 BOXES AND ENCLOSURES: NEMA 250, TYPE 1, UNLESS OTHERWISE INDICATED.

6.7 RACEWAY AND CABLE INSTALLATION:
CONCEAL RACEWAYS AND CABLES, UNLESS OTHERWISE INDICATED, WITHIN FINISHED WALLS, CEILINGS, AND FLOORS. KEEP LEGS OF RACEWAY BENDS IN THE SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL. USE RMC ELBOWS WHERE RNC TURNS OUT OF SLAB.
INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED

STEEL OR WOVEN POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES (300 MM) OF SLACK AT EACH END OF CONDUIT. INSTALL TELEPHONE AND SIGNAL SYSTEM RACEWAYS, 2-INCH TRADE SIZE AND SMALLER, IN MAXIMUM LENGTHS OF 150 FEET (45 M) AND WITH A MAXIMUM OF TWO 90-DEG BENDS OR EQUIVALENT. ADD PULL BOXES WHERE NECESSARY TO ACCOMPLISH THIS.

7.0 WIRING METHODS:
7.1 FEEDERS:
EXPOSED FEEDERS: INSULATED SINGLE CONDUCTORS IN RACEWAY.
CONCEALED FEEDERS IN CEILINGS OR WALLS: INSULATED SINGLE CONDUCTORS IN RACEWAY.
CONCEALED FEEDERS IN CONCRETE, BELOW FLOORS ON GRADE OR IN CRAWLSPACES: INSULATED SINGLE CONDUCTORS IN RACEWAY.
UNDERGROUND FEEDERS: INSULATED SINGLE CONDUCTORS IN RACEWAY.

7.2 WIRING INSTALLATION:
MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UN-SPLICED CONDUCTORS.

7.3 ELECTRICAL SUPPORTING DEVICE APPLICATION
DAMP LOCATIONS AND OUTDOORS: HOT-DIP GALVANIZED MATERIALS OR NONMETALLIC, SLOTTED CHANNEL SYSTEM COMPONENTS.
DRY LOCATIONS: STEEL MATERIALS.
STRENGTH OF SUPPORTS: ADEQUATE TO CARRY PRESENT AND FUTURE LOADS, TIMES A SAFETY FACTOR OF AT LEAST FOUR WITH, 200-LB (90-KG) MINIMUM DESIGN LOAD FOR EACH SUPPORT ELEMENT.

7.4 SUPPORT INSTALLATION:
SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE-OR BRACKET-TYPE HANGERS. SIZE SUPPORTS FOR MULTIPLE RACEWAY OR CABLE RUNS SO CAPACITY CAN BE INCREASED BY A 25 PERCENT MINIMUM IN THE FUTURE.
SUPPORT INDIVIDUAL HORIZONTAL SINGLE RACEWAYS WITH SEPARATE, MALLEABLE-IRON PIPE HANGERS OR CLAMPS.
SECURE ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUCTURE, USING THE FOLLOWING METHODS UNLESS OTHER FASTENING METHODS ARE INDICATED:
WOOD: WOOD SCREWS OR SCREW-TYPE NAILS.
GYPSUM BOARD: TOGGLE BOLTS. SEAL AROUND SLEEVES WITH JOINT COMPOUND, BOTH SIDES OF WALL.
MASONRY: TOGGLE BOLTS ON HOLLOW BLOCK AND EXPANSION BOLTS ON SOLID BLOCK. SEAL AROUND SLEEVES WITH MORTAR, BOTH SIDES OF WALL.
NEW CONCRETE: CONCRETE INSERTS WITH MACHINE SCREWS AND BOLTS.
EXISTING CONCRETE: EXPANSION BOLTS OR THREADED STUDS DRIVEN BY POWDER CHARGE AND PROVIDED WITH LOCK WASHERS.
STRUCTURAL STEEL: SPRING-TENSION CLAMPS OR THREADED STUDS DRIVEN BY POWDER CHARGE AND PROVIDED WITH LOCK WASHERS.
COMPLY WITH AWS D1.1 FOR FIELD WELDING.
LIGHT STEEL FRAMING: SHEET METAL SCREWS.
FASTENERS FOR DAMP, WET, OR WEATHER-EXPOSED LOCATIONS: STAINLESS STEEL.
LIGHT STEEL: SHEET-METAL SCREWS.
FASTENERS: SELECT SO LOAD APPLIED TO EACH FASTENER DOES NOT EXCEED 25 PERCENT OF ITS PROOF-TEST LOAD.

7.5 SLEEVES:
INSTALL SLEEVES FOR CABLE AND RACEWAY PENETRATIONS OF CONCRETE SLABS AND WALLS UNLESS CORE-DRILLED HOLES ARE USED. INSTALL SLEEVES FOR CABLE AND RACEWAY PENETRATIONS OF MASONRY AND FIRE-RATED GYPSUM WALLS AND OF ALL OTHER FIRE-RATED FLOOR AND WALL ASSEMBLIES. INSTALL SLEEVES DURING ERECTION OF CONCRETE AND MASONRY WALLS.

7.6 IDENTIFICATION MATERIALS AND DEVICES
SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLYING. TAG AND LABEL CIRCUITS DESIGNATED TO BE EXTENDED IN THE FUTURE. IDENTIFY SOURCE AND CIRCUIT NUMBERS IN EACH CABINET, FULL AND JUNCTION BOX, AND OUTLET BOX. COLOR-CODING MAY BE USED FOR VOLTAGE AND PHASE IDENTIFICATION.
INSTALL CONTINUOUS UNDERGROUND PLASTIC MARKERS DURING TRENCH BACKFILLING, FOR EXTERIOR UNDERGROUND POWER, CONTROL, SIGNAL, AND COMMUNICATION LINES LOCATED DIRECTLY ABOVE POWER AND COMMUNICATION LINES. LOCATE 6 TO 8 INCHES BELOW FINISHED GRADE. IF WIDTH OF MULTIPLE LINES INSTALLED IN A COMMON TRENCH OR CONCRETE ENVELOPE DOES NOT EXCEED 16 INCHES, OVERALL, USE A SINGLE LINE MARKER.
INSTALL WARNING, CAUTION, AND INSTRUCTION SIGNS WHERE REQUIRED TO COMPLY WITH 29 CFR 1910.145, CHAPTER XVII, AND WHERE NEEDED TO ENSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND OF ITEMS TO WHICH THEY CONNECT. INDOORS INSTALL ENGRAVED PLASTIC-LAMINATED INSTRUCTION SIGNS WITH APPROVED LEGEND WHERE INSTRUCTIONS ARE NEEDED FOR SYSTEM OR EQUIPMENT OPERATION. INSTALL METAL-BACKED BUTYRATE SIGNS FOR OUTDOOR ITEMS.
INSTALL ENGRAVED-LAMINATED EMERGENCY-OPERATING SIGNS WITH WHITE LETTERS ON RED BACKGROUND WITH MINIMUM 3/8-INCH– (9-MM-) HIGH LETTERING FOR EMERGENCY INSTRUCTIONS ON POWER TRANSFER, LOAD SHEDDING, AND OTHER EMERGENCY OPERATIONS.

7.7 AS BUILT DRAWINGS:
MAINTAIN ONE SET OF PRINTS ON THE JOB SHOWING LOCATIONS OF UNDERGROUND CONDUITS AND DUCTS. PROVIDE THE ARCHITECT WITH ONE SET OF SUCH "AS-BUILTS" ACCURATE, NEAT AND LEGIBLE DRAWINGS ON COMPLETION OF THE WORK.

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	PARKING LOT FIXTURE, POLE MOUNTED
	DETAIL CALLOUT-SEE DETAIL ON PAGE INDICATED

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE	NEC	NATIONAL ELECTRICAL CODE
AFF	ABOVE FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AWG	AMERICAN WIRE GAUGE	NF	NON FUSED
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CKT	CIRCUIT	NTS	NOT TO SCALE
(D), DEMO	DEMOLISH	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
(E), EXIST	EXISTING	PC	PHOTO CELL
EM	EMERGENCY	PH	PHASE
EMT	ELEC METALLIC TUBING	PNL	PANEL
(F), FUT	FUTURE	(R), RELO	RELOCATED
FLA	FULL LOAD AMPERES	RM	ROOM
FMC	FLEXIBLE METALLIC CONDUIT	RMC	RIGID METALLIC CONDUIT
FU	FUSED	RNC	RIGID NONMETALLIC CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SES	SERVICE ENTRANCE SUBSTATION
GRND	GROUND	SPEC	SPECIFICATION
HP	HORSEPOWER	SW	SWITCH
J, J-BOX	JUNCTION BOX	SWB	SWITCHBOARD
KMIL	1000 CIRCULAR MIL	TC	TIME CLOCK
KV	KILOVOLT	TMB	TELEPHONE MOUNTING BOARD
KVA	KILOVOLT-AMPERE	TP	TYPICAL
LFCM	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT	UG	UNDERGROUND
LGT	LIGHTING	U.N.O.	UNLESS NOTED OTHERWISE
MCB	MAIN CIRCUIT BREAKER	V	VOLT
MLO	MAIN LUGS ONLY	VA	VOLT-AMPERE
(N)	NEW	VP	VANDAL PROOF
N/A	NOT APPLICABLE	W	WATT, WIRE
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

Fun Form
Architecture PLLC
3545 East Menlo Circle
Mesa, Arizona 85213
480-724-0595

DR22-14 JBJ Electric Company
Attachment 9: Photometric Plans
August 3, 2022



10/27/21 DRAWING DATE

A NEW FACILITY
FOR
JBJ ELECTRIC COMPANY LLC
AT
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT 2124

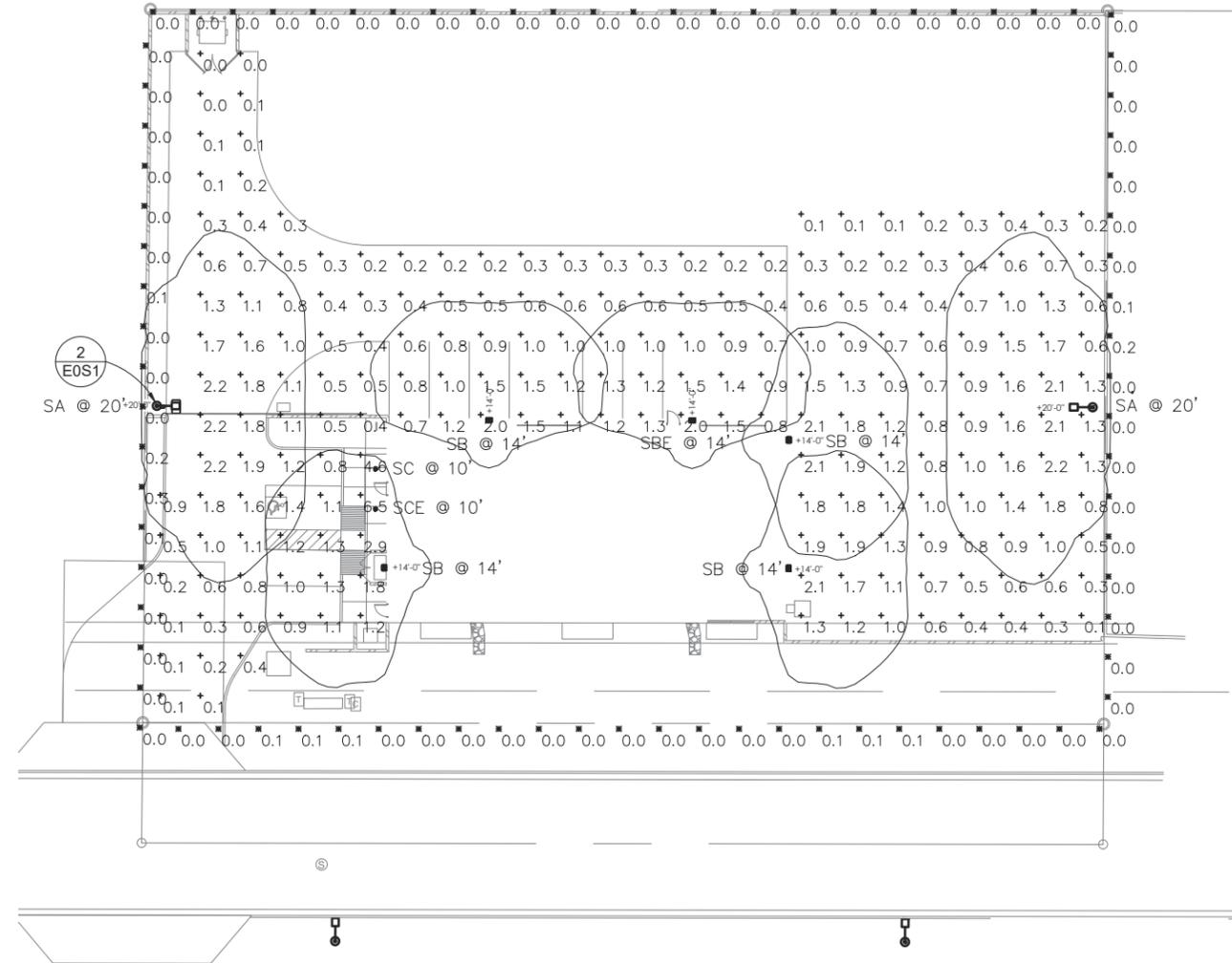
SHEET NO. **EOSO**
OF

AZPE
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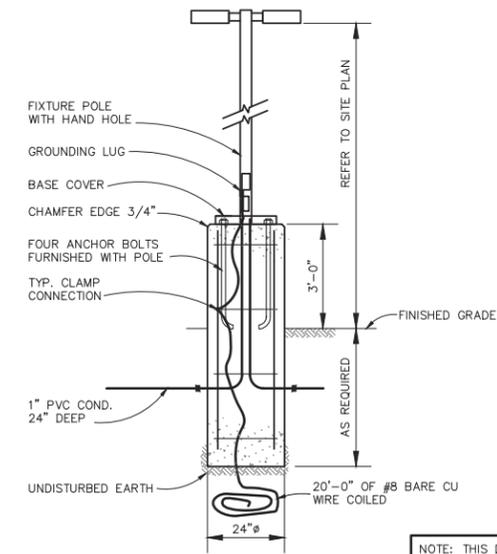
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Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	SA	2	Lithonia Lighting	DSX0 LED P2 40K BLC MVOLT/ SSS 17.5'	DSX0 LED P2 40K BLC MVOLT	LED	DSX0_LED_P2_40K_BLC_MVOLT.ies	4925	0.91	49
	SB	4	Lithonia Lighting	WDGE2 LED P3 40K 80CRI T4M	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 80CRI, TYPE 4 MEDIUM OPTIC	LED	WDGE2_LED_P3_40K_80CRI_T4 M.ies	3147	0.91	32.1375
	SBE	1	Lithonia Lighting	WDGE2 LED P3 40K 80CRI T4M E10WH	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 80CRI, TYPE 4 MEDIUM OPTIC	LED	WDGE2_LED_P3_40K_80CRI_T4 M.ies	3147	0.91	32.1375
	SC	1	Lithonia Lighting	LDN6 40/10 L06AR LSS MVOLT EZ10	6IN LDN, 4000K, 1000LM, 80CRI, CLEAR, SEMI-SPECULAR REFLECTOR	LED - 4000K	LDN6_40_10_L06AR_LSS.ies	1054	0.91	12.75
	SCE	1	Lithonia Lighting	LDN6 40/10 L06AR LSS MVOLT EZ10 EL	6IN LDN, 4000K, 1000LM, 80CRI, CLEAR, SEMI-SPECULAR REFLECTOR W/EM BATTERY PACK	LED - 4000K	LDN6_40_10_L06AR_LSS.ies	1054	0.91	12.75

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1 SITE PLAN
 Scale: 1" = 20'-0"
 0' 10' 20' 40'



2 LIGHT POLE DETAIL
 NTS
 NOTE: THIS DETAIL IS SHOWN FOR ELECTRICAL INFORMATION ONLY. THE POLE/FIXTURE MANUFACTURER SHALL PROVIDE STRUCTURAL CALCULATIONS.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE - FC @ 5' AFG	✕	0.0 fc	0.3 fc	0.0 fc	N/A	N/A
SITE - FC @ GRADE	+	0.9 fc	6.5 fc	0.0 fc	N/A	N/A



10/27/21 DRAWING DATE

A NEW FACILITY
 FOR
JBJ ELECTRIC COMPANY LLC
 AT
 1064 WEST MELODY AVE.
 GILBERT, ARIZONA

PROJECT 2124

SHEET NO. **E0S1**
 OF

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Specifications

EPA: 0.95 ft² (0.09 m²)

Length: 26" (661 mm)

Width: 13" (330 mm)

Height: 3" (76 mm)

Height: 7" (178 mm)

Weight (max): 16 lbs (7.3 kg)

Ordering Information

Model: _____

Finish: _____

Type: _____

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

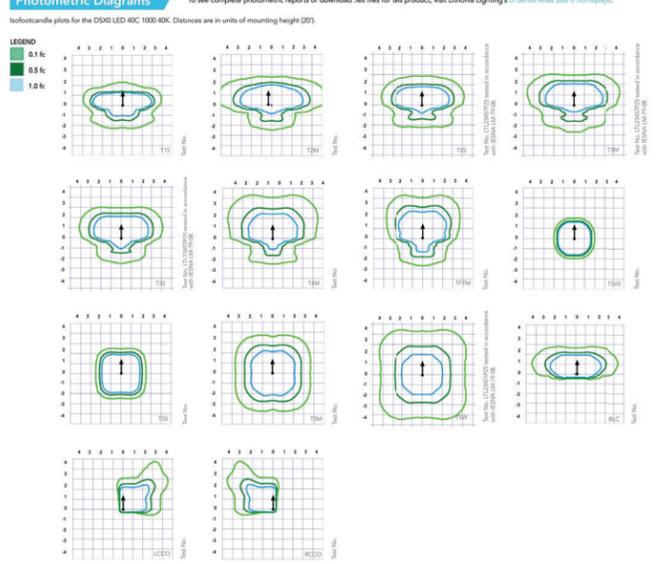
Ordering Information EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DBBX

Series	LEDs	Color temperature	Distribution	Mounting	Shipped included	
DSX0 LED	Forward optics	P1 P5	T15 Type I (short)	T35 Type I (short)	MVOLT (120V-277V) ¹⁶	SPA Square pole mounting
		P2 P6	T25 Type II (short)	T3M Type I (medium)	320*	RPA Round pole mounting
		P3 P7	T35 Type III (short)	T3M Type I (medium)	208*	WBA Wall bracket
		P4	T3M Type III (medium)	LCDO Left corner cutoff ¹⁷	240*	SPUMBA Square pole universal mounting adaptor ¹⁸
		P4*	T3M Type III (medium)	RCCO Right corner cutoff ¹⁷	277*	RPUMBA Round pole universal mounting adaptor ¹⁸
	Rotated optics	PIP ¹⁹ P12 ¹⁹	T35 Type I (short)	T35 Type I (short)	277*	Shipped separately
		PI1 ¹⁹ P13 ¹⁹	T35 Type I (short)	T35 Type I (short)	400*	KNAU DDBX D Metal arm mounting bracket adaptor (specify finish) ¹⁸

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DSX0-LED Rev. 07/19/21 Page 1 of 4

Photometric Diagrams To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.



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DSX0-LED Rev. 07/19/21 Page 3 of 4

Ordering Information

Accessories

1. Not available with P4, P7, and P13.

2. P10, P12, and P13 and related options (100 or 1000 only available together).

3. Any Type 5 distribution with photometric, is not available with WBA.

4. Not available with P1 or P2.

5. Single-lens (SP) requires 120V, 277V or 300V. Double-lens (DP) requires 208V, 240V or 480V. 300V not available with lighting 0 or DP.

6. DMSH L500E P1 Photometric: 3000K, 4000K, 5000K.

7. DMSH L500E P2 Photometric: 3000K, 4000K, 5000K.

8. DMSH L500E P3 Photometric: 3000K, 4000K, 5000K.

9. DMSH L500E P4 Photometric: 3000K, 4000K, 5000K.

10. DMSH L500E P5 Photometric: 3000K, 4000K, 5000K.

11. DMSH L500E P6 Photometric: 3000K, 4000K, 5000K.

12. DMSH L500E P7 Photometric: 3000K, 4000K, 5000K.

13. DMSH L500E P8 Photometric: 3000K, 4000K, 5000K.

14. DMSH L500E P9 Photometric: 3000K, 4000K, 5000K.

15. DMSH L500E P10 Photometric: 3000K, 4000K, 5000K.

16. DMSH L500E P11 Photometric: 3000K, 4000K, 5000K.

17. DMSH L500E P12 Photometric: 3000K, 4000K, 5000K.

18. DMSH L500E P13 Photometric: 3000K, 4000K, 5000K.

19. DMSH L500E P14 Photometric: 3000K, 4000K, 5000K.

20. DMSH L500E P15 Photometric: 3000K, 4000K, 5000K.

21. DMSH L500E P16 Photometric: 3000K, 4000K, 5000K.

22. DMSH L500E P17 Photometric: 3000K, 4000K, 5000K.

23. DMSH L500E P18 Photometric: 3000K, 4000K, 5000K.

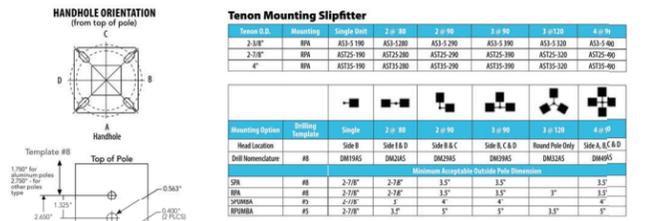
24. DMSH L500E P19 Photometric: 3000K, 4000K, 5000K.

25. DMSH L500E P20 Photometric: 3000K, 4000K, 5000K.

EGS - External Glare Shield



Drilling



DSX0 Area Luminaire - EPA

Includes luminaire and integral mounting arm. Other arms, brackets or other accessories are not included in this EPA data.

Mounting Type	1 @ 10'	2 @ 10'	3 @ 10'	4 @ 10'	5 @ 10'	6 @ 10'
DSX0 LED	0.950	1.900	1.830	2.850	2.830	3.540

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DSX0-LED Rev. 07/19/21 Page 2 of 4

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	52°F	Lumen Multiplier
0°C	52°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data reflects the extrapolated performance projections for the platforms noted in a 20°C ambient, based on 10,000 hours of LED testing (based per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLT, use the Lumen Maintenance Factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Medium Sensor Default Settings

Option	Default State	High Level (Full-on Operation)	Photocell Output	2-wire Time	3-wire Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	ON (12V)	100% (100%)	Enabled at 10%	2 min	3 sec	5 min	5 min
PIRHCIV or PIRHCIVC	ON (12V)	100% (100%)	Enabled at 10%	2 min	3 sec	5 min	5 min

Controls Options

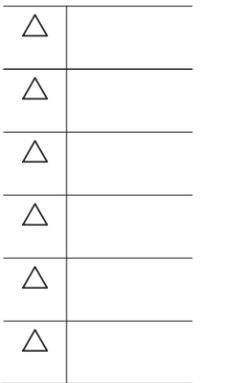
Itemization	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively reducing the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS	Drivers wired independently for 0V/0V luminaire operation.	The luminaire is wired to two separate circuits, allowing for 0V/0V operation.	Independently wired drivers	Requires two separately switched 0V/0V. Consider 4-wire/4-wire as a more effective alternative.
PIR or PIRH	Field back photocell receptor.	Compatible with standard field back photocells for dusk-to-dawn operation, or advanced control modes that provide 0-10V dimming signals.	Field back photocells such as IRL, Elite or advanced control nodes such as RAL.	PIR 4 & 5 to dimming leads on 0V/0V. PIR 6 & 7 are capped inside luminaire.
PIR or PIRH	Motion sensors with integral photocell; PIR or 0-15V mounting; PIRH for 15-30V mounting.	Luminaire dim when no occupancy is detected.	Acuity Controls SSGR	Also available with PIRHCIV when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	Light 88 enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor on-site when wirelessly connected to the Acuity Edge.	Light 88 Acuity Edge	Light 88 sensors can be programmed and commissioned from the ground only the CityLight Pro app.

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DSX0-LED Rev. 07/19/21 Page 4 of 4



10/27/21 DRAWING DATE



A NEW FACILITY
FOR
JBJ ELECTRIC COMPANY LLC
AT
1064 WEST MELODY AVE.
GILBERT, ARIZONA

PROJECT 2124

SHEET NO. **EOS2** OF

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WDGE2 LED
Architectural Wall Sconce
Precision Reflective Optic

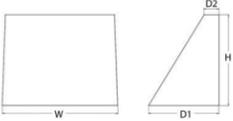


Catalog Number	
Notes	
Type	

Introduction
The WDGE LED family is designed to meet the every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectangular design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision reflective optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

Specifications
Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs (without options)



WDGE LED Family Overview

Luminaire	Optics	Standard ILL, 0°C	Cold ILL, 20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W	18W	Standalone / nLight	750	1,200	2,000	3,000	4,500	6,000	---
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	---	---
WDGE3 LED	Precision Reflective	15W	18W	Standalone / nLight	---	7,500	8,500	10,000	12,000	---	---
WDGE4 LED	Precision Reflective	---	---	Standalone / nLight	---	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	Shipped Separately
WDGE2 LED	P0 ¹	27K	2700K	70CRI ²	T1S	Type I Short	MVOLT
	P1 ³	30K	3000K	80CRI	T2M	Type II Medium	SRM
	P2 ³	40K	4000K	LWF Limited Wavelength	T3M	Type III Medium	ICW
	P3 ³	50K	5000K	---	T4M	Type IV Medium	TFTM
	P4 ²	AMB	Amber	---	TFTM	Forward Throw Medium	---

Shipped Separately: AFW 3/8" Architectural Wall Spacer, P8BW Surface-mounted ball (top, left, right, and bottom entry), or when there is no junction box available.

Options

Option	Description	Finish
E1WH	Emergency battery backup, Certified in CA Title 20 M22B5 (100% VRLA)	DDBXD
E2WC	Emergency battery backup, Certified in CA Title 20 M22B5 (18V, -20°C min)	PHALD
PE ¹	PhotoCell, Bottom Type	PHAYD
DM4 ¹	0-30V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DDBXD
BCE	Bottom conduit entry for back box (P8BW). Total 4x entry points.	DDBXD
	Standalone Sensors/Controls	
	PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	DDBXD
	PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	DDBXD
	PIRHFCV Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	DDBXD
	PIRHFCV Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	DDBXD
	Networked Sensors/Controls	
	NLAI2R PIR nLight® AIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.	PHALD
	NLAI2R PIRH nLight® AIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.	PHALD

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Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	---	---
	9.0	---	---	---	0.031	0.021	---
P1	11.0	0.100	0.064	0.059	0.054	---	---
	14.1	---	---	---	0.046	0.031	---
P2	19.0	0.168	0.106	0.095	0.083	---	---
	22.8	---	---	---	0.067	0.050	---
P3	32.0	0.284	0.163	0.144	0.131	---	---
	37.1	---	---	---	0.107	0.079	---
P4	47.0	0.412	0.234	0.207	0.185	---	---
	53.5	---	---	---	0.153	0.112	---

Lumen Output in Emergency Mode (4000K, 80 CRI, T3M)

Option	Lumens
E1WH	1,358
E2WC	2,230

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0°C/32°F to 40°C/104°F.

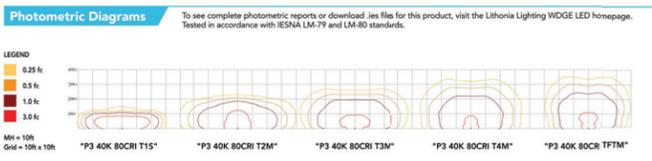
Ambient	Lumen Multiplier	
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hour of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-2-11).

To calculate LLM, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>=0.96	>=0.93	>=0.87



Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC — section 700.16, NFPA 101 Life Safety Code Section 7.9

Option	Dim Level	High Level	PhotoCell	Motion Time (sec)	Range-down Time	Range-up Time
PIR or PIRH	Motion - 3V (37% of full output) PhotoCell - 0V (turned off)	10V (100% output)	Enabled @ 5Lc	5 min	5 min	Motion - 3 sec PhotoCell - 45 sec
PIRHFCV, PIRHFCV	Motion - 3V (37% of full output) PhotoCell - 0V (turned off)	10V (100% output)	Enabled @ 5Lc	5 min	5 min	Motion - 3 sec PhotoCell - 45 sec
NLAI2R PIR, NLAI2R PIRH (out of box)	Motion - 3V (37% of full output) PhotoCell - 0V (turned off)	10V (100% output)	Enabled @ 5Lc	7.5 min	5 min	Motion - 3 sec PhotoCell - 45 sec

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Accessories
Ordered and priced separately.

WDGEW180B0	WDGE 3-Inch Architectural Wall Spacer (per foot)
WDGEW180B0B1	WDGE2 surface-mounted ball box (per foot)

NOTES

- P0 option not available with sensors/controls.
- P1-P4 not available with AMB and LW.
- AMB and LW always go together.
- 70CRI only available with T3M and T4M.
- 347V and 480V not available with E1WH or E2WC.
- Not qualified for DLC. Not available with emergency/battery backup or sensors/controls.
- FE not available in 480V or with sensors/controls.
- DM4 option not available with sensors/controls.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dim. Type	27K (2700K, 80 CRI)				30K (3000K, 80 CRI)				40K (4000K, 80 CRI)				50K (5000K, 80 CRI)				Amber (Lumens Weighting)												
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G				
P0	7W	---	T1S	636	92	0	0	666	97	0	0	699	101	0	0	732	107	0	0	765	110	0	0	798	114	0	0	831	119	0	0
			T2M	462	66	0	0	495	70	0	0	528	76	0	0	561	80	0	0	594	84	0	0	627	88	0	0	660	92	0	0
			T3M	462	66	0	0	495	70	0	0	528	76	0	0	561	80	0	0	594	84	0	0	627	88	0	0	660	92	0	0
			T4M	468	68	0	0	498	71	0	0	534	77	0	0	567	81	0	0	600	86	0	0	633	90	0	0	666	94	0	0
P1	11W	---	PTM	652	95	0	0	685	99	0	0	717	104	0	0	750	108	0	0	783	112	0	0	816	116	0	0	849	120	0	0
			T1S	1,136	99	0	0	1,192	104	0	0	1,245	109	0	0	1,299	114	0	0	1,353	119	0	0	1,407	124	0	0	1,461	129	0	0
			T2M	1,130	103	0	0	1,184	108	0	0	1,236	113	0	0	1,289	118	0	0	1,341	123	0	0	1,393	128	0	0	1,445	133	0	0
			T3M	1,120	101	0	0	1,173	106	0	0	1,225	111	0	0	1,276	116	0	0	1,327	121	0	0	1,378	126	0	0	1,429	131	0	0
P2	19W	---	T4M	1,136	101	0	0	1,179	106	0	0	1,221	111	0	0	1,263	116	0	0	1,305	121	0	0	1,347	126	0	0	1,389	131	0	0
			PTM	1,111	101	0	0	1,154	106	0	0	1,195	112	0	0	1,236	118	0	0	1,277	124	0	0	1,318	130	0	0	1,359	135	0	0
			T1S	1,881	95	1	0	1,966	99	1	0	2,051	104	1	0	2,136	109	1	0	2,221	114	1	0	2,306	119	1	0	2,391	124	1	0
			T2M	1,875	99	1	0	1,960	103	1	0	2,045	108	1	0	2,130	113	1	0	2,215	118	1	0	2,300	123	1	0	2,385	128	1	0
P3	32W	---	T3M	1,836	99	1	0	1,921	103	1	0	1,996	108	1	0	2,071	113	1	0	2,146	118	1	0	2,221	123	1	0	2,296	128	1	0
			T4M	1,836	97	1	0	1,921	101	1	0	1,996	106	1	0	2,071	111	1	0	2,146	116	1	0	2,221	121	1	0	2,296	126	1	0
			PTM	1,847	97	1	0	1,934	102	1	0	2,020	107	1	0	2,095	112	1	0	2,170	117	1	0	2,245	122	1	0	2,320	127	1	0
			T1S	2,289	87	1	0	2,392	92	1	0	2,495	96	1	0	2,598	101	1	0	2,701	106	1	0	2,804	111	1	0	2,907	116	1	0
P4	47W	---	T2M	2,534	93	1	0	2,642	95	1	0	2,750	98	1	0	2,858	101	1	0	2,966	104	1	0	3,074	107	1	0	3,182	110	1	0
			T3M	2,835	91	1	0	2,943	95	1	0	3,051	100	1	0	3,159	103	1	0	3,267	106	1	0	3,375	109	1	0	3,483	112	1	0
			T4M	2,862	89	1	0	2,967	93	1	0	3,072	96	1	0	3,177	99	1	0	3,282	102	1	0	3,387	105	1	0	3,492	108	1	0
			PTM	2,488	90	1	0	2,597	94	1	0	2,706	97	1	0	2,815	100	1	0	2,924	103	1	0	3,033	106	1	0	3,142	109	1	0
P5	47W	---	T1S	3,729	80	1	0	3,864	84	1	0	3,999	88	1	0	4,134	92	1	0	4,269	96	1	0	4,404	100	1	0	4,539	104	1	0
			T2M	3,881	83	1	0	4,063	87	1	0	4,245	91	1	0	4,427	95	1	0	4,609	99	1	0	4,791	103	1	0	4,973	107	1	0
			T3M	3,862	81	1	0	4,065																							

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A NEW FACILITY
FOR
JBJ ELECTRIC COMPANY LLC
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FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.
CONSTRUCTION — Galvanized steel mounting brackets; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs. Vertically adjustable mounting brackets with commercial bar hangers provide 3-1/4" total adjustment. Two conductive 1/2" x 1/4" and three 1/2" knockouts for straight through conduct runs. Capacitor 4.8µF, No. 12 AWG conductors, rated for 90°C. Accommodates 12" x 24" just spacing. Passive cooling thermal management for 23°C standard high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling. Max ceiling thickness 1-1/2".
OPTICS — LEDs are bonded to a 3-step SDCM, 90 CRI minimum, 98 CRI optional. LED light source concealed with diffusing optical lens. General illumination lighting with 1.5:1 CRI and 95° cutoff to source and source image. Self-ranged analyzed reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.
ELECTRICAL — Multi with LED-277V, 50/60Hz 0-100% dimming drivers mounted to junction box, 10k or 7k minimum dimming level available. 0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled. 70% lumen maintenance at 60,000 hours.
LISTINGS — Compliant to UL and Canadian safety standards. Wet location standard (damped ceiling). PFS rated. ENERGY STAR certified product.
BUY AMERICAN — Product with the BLS option is assembled in the USA and meets the Buy American's government procurement requirements under FAR, 25.416 and ECI. Please refer to www.acuitybrands.com/buy-american for additional information.
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

Ceiling Number
Notes
Type



LDN6

6" Open end Wall/Wash LED Non-IC New Construction Downlight



ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: LDN6 35/15 LOGAR ISS MVOLT EZ10

Series	Color temperature	Lumens*	Aperture*/Yim Color	Finish	Voltage	
LDN6 6" round	27/ 2700K	05 500 lumens	25 2500 lumens	LD6 Downlight	AR Clear	120 120V 277 277V 347 347V
	30/ 3000K	07 750 lumens	30 3000 lumens	LWS Wall/wash	WR White	
	35/ 3500K	10 1000 lumens	40 4000 lumens		BR Black	
	40/ 4000K	15 1500 lumens	50 5000 lumens			
	50/ 5000K	20 2000 lumens				

Driver	Options
GZ10 0-10V driver dims to 10%	Single fuse
D10 0-10V driver dims to 1%	TRW ¹ White painted flange
D10 Minimum dimming 10% driver for use with JOT	TRW ¹ Black painted flange
D1 Minimum dimming 1% driver for use with JOT	EL ¹ Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ10 0-10V rdsLED driver with smooth and flicker-free deep dimming performance down to 1%	EL1 ² Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ1 0-10V rdsLED driver with smooth and flicker-free deep dimming performance down to 1%	EL10WCP ³ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDBS
EZ1 0-10V rdsLED driver with smooth and flicker-free deep dimming performance down to 1%	EL10WCP ³ Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDBS
EDAB rdsLED DALI SOLIDDRIVE dim to dark	NPP1AD ⁴ Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDBS
	NPP1DEX ⁴ rLight™ network power/play pack with 0-10V dimming for non-rdsLED drivers (EZ10, EZ1, EL) controls features on emergency circuit.

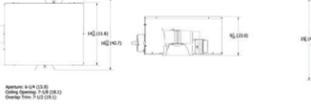
LUMEN OUTPUT MULTIPLIERS - FINISH		LUMEN OUTPUT MULTIPLIERS - CCT						
	Clear (AR)	White (WR)	Black (BR)	2700K	3000K	3500K	4000K	5000K
Specular (LS)	1.0	N/A	N/A	0.90	0.96	1.00	1.025	1.11
Semi-specular (LSS)	0.950	N/A	N/A					
Matte diffuse (LD)	0.85	N/A	N/A					
Painted	N/A	0.87	0.71					

Notes: 1. Tested in accordance with IESNA LM-79-08. 2. Tested to current IES and NEMA standards under stabilized laboratory conditions. 3. CRI: 80 typical. 4. Not available with CE, NPS3EZ, NPS40CR, NPP1AD, NPP1DEX or 840 options. 5. NTA10R2, NTA10R2Z and NTA10R2Z¹⁰ not recommended for metal ceiling installations. 6. Must specify voltage 120V or 277V. 7. Available with clear (AR) reflectors only. 8. 12.5" of plenum depth or tap access required for battery pack maintenance. 9. Specify voltage. ER for use with generator supply EM power. Will require an emergency hot lead and neutral hot lead. 10. Fixture begins at 80% light level. Must be specified with NPS-SHEZ or NPS40CR. Only available with EZ10 and EZ1 drivers. 11. Not available with CE, NPS3EZ, NPS40CR, NPP1AD, NPP1DEX or 840 options. 12. Feature height is 6.5" for all luminaire packages with 840. 13. Must specify voltage for 1000W and above. 5000W with market spacing 24" x 24" W x 14". Not available with emergency battery pack option. 14. Must specify 010 or 01 driver. Not available with rLight™ network power/play pack option. Not available with CE, not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.

DOWNLIGHTING LDN6

LDN6

* All dimensions are inches (centimeters) unless otherwise noted.



Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE
Use the formula below to estimate the delivered lumens in emergency mode
Delivered Lumens = 1.25 x P x LPW
P = Output power of emergency driver. P = 10W for PS10SSCP
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.
The LPW rating is also available at Designlight.Consortium.

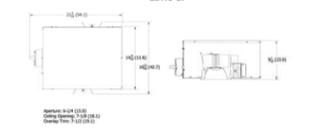
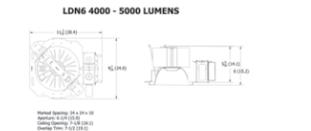
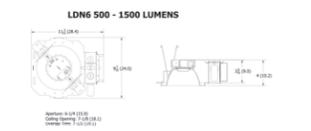
LUMEN OUTPUT MULTIPLIERS - FINISH				LUMEN OUTPUT MULTIPLIERS - CCT				
	Clear (AR)	White (WR)	Black (BR)	2700K	3000K	3500K	4000K	5000K
Specular (LS)	1.0	N/A	N/A	0.90	0.96	1.00	1.025	1.11
Semi-specular (LSS)	0.950	N/A	N/A					
Matte diffuse (LD)	0.85	N/A	N/A					
Painted	N/A	0.87	0.71					

Notes: 1. Tested in accordance with IESNA LM-79-08. 2. Tested to current IES and NEMA standards under stabilized laboratory conditions. 3. CRI: 80 typical.

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LDN6

* All dimensions are inches (centimeters) unless otherwise noted.



Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

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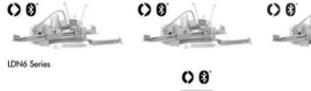
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COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron	Dwa® DTV	
	Dim+® DVCTV	
	Dim+™ MDTV	
	Nowa™ MFTV	
Leviton	AWM4T-70W	CK100
	AWM4G-70W	PE300
	AWM4G-70W	
Synergy™	ESB-RC	RDWPC
	SUB-LPES	
Dauglas Lighting Controls	WVC 0721	
	Tap Glide™ T660P/AM120 (120V)	
Entertainment Technology	Tap Glide™ T660M1A (120V)	
	Tap Glide™ T660M1A (200V)	
Honeywell	EL713A1009	EL705A1010 (optional)
	EL713A1009	
	Present slide: PS-010-0V and PS-030-WB	
HUNT Dimming	Present slide: PS-010-0V and PS-030-WB	
	Present slide, controls: FD-010-P/RC-010-0V and PS-RC-010-WB-120/277V	
	Present slide, controls: FD-010-P/RC-010-0V and PS-RC-010-WB-120/277V	
Lithonia Electronic Products	Solitaire	PBK
	WPC-5721	
PMH Electrical Products	1101 with DALI interface part	
Stanfield Controls	LS-4 used with LED-301 and LED-303	8701 DALI/Net Router
WartStoep™	LS-4 used with LED-301 and LED-303	

Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency.
This luminaire is part of an A+ Certified solution for rLight™ control networks when ordered with drivers marked by a shaded background.
This luminaire is part of an A+ Certified solution for rLight™ control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background.
To learn more about A+, visit www.acuitybrands.com/aplus.
*See ordering tree for details.

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