

HISTORIC AND DESIGN REVIEW COMMISSION

July 17, 2019

HDRC CASE NO: 2019-371
ADDRESS: 2500 E COMMERCE ST
LEGAL DESCRIPTION: NCB 1442 BLK LOT ALL OF NCB
ZONING: C-1
CITY COUNCIL DIST.: 2
APPLICANT: Albert Fernandez/CFZ Group, LLC.
OWNER: EAST END PARK DAWSON CENTER
TYPE OF WORK: Parking improvements
APPLICATION RECEIVED: June 05, 2019
60-DAY REVIEW: August 4, 2019
CASE MANAGER: Adam Rajper
REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to carry out various park improvements, including the reconstruction of the basketball court, installation of a shade canopy over the basketball court, two picnic canopies, and various Americans with Disabilities Act (ADA) improvements.

APPLICABLE CITATIONS:

UDC Sec. 35-641. - Design Considerations for Historic and Design Review Commission Recommendations.

In reviewing an application, the historic and design review commission shall be aware of the importance of attempting to find a way to meet the current needs of the City of San Antonio, lessee or licensee of public property. The historic and design review commission shall also recognize the importance of recommending approval of plans that will be reasonable to implement. The best urban design standards possible can and should be employed with public property including buildings and facilities, parks and open spaces, and the public right-of-way. Design and construction on public property should employ such standards because the use of public monies for design and construction is a public trust. Public commitment to quality design should encourage better design by the private sector. Finally, using such design standards for public property improves the identity and the quality of life of the surrounding neighborhoods.

UDC Sec 35-642. – New Construction of Buildings and Facilities:

In considering whether to recommend approval or disapproval of a certificate, the historic and design review commission shall be guided by the following design considerations. These are not intended to restrict imagination, innovation or variety, but rather to assist in focusing on design principles, which can result in creative solutions that will enhance the city and its neighborhoods. Good and original design solutions that meet the individual requirements of a specific site or neighborhood are encouraged and welcomed.

(a) Site and Setting.

(1) Building sites should be planned to take into consideration existing natural climatic and topographical features. The intrusive leveling of the site should be avoided. Climatic factors such as sun, wind, and temperature should become an integral part of the design to encourage design of site-specific facilities which reinforces the individual identity of a neighborhood and promotes energy efficient facilities.

(2) Special consideration should be given to maintain existing urban design characteristics, such as setbacks, building heights, streetscapes, pedestrian movement, and traffic flow. Building placement should enhance or create focal points and views. Continuity of scale and orientation shall be emphasized.

(3) Accessibility from streets should be designed to accommodate safe pedestrian movement as well as vehicular traffic. Where possible, parking areas should be screened from view from the public right-of-way by attractive fences, berms, plantings or other means.

(4) Historically significant aspects of the site shall be identified and if possible incorporated into the site design. Historic relationships between buildings, such as plazas or open spaces, boulevards or axial relationships should be maintained.

(b) Building Design.

(1) Buildings for the public should maintain the highest quality standards of design integrity. They should elicit a pride of ownership for all citizens. Public buildings should reflect the unique and diverse character of San Antonio and should be responsive to the time and place in which they were constructed.

(2) Buildings shall be in scale with their adjoining surroundings and shall be in harmonious conformance to the identifying

quality and characteristics of the neighborhood. They shall be compatible in design, style and materials. Reproductions of styles and designs from a different time period are not encouraged, consistent with the secretary of the interior's standards. Major horizontal and vertical elements in adjoining sites should be respected.

(3) Materials shall be suitable to the type of building and design in which they are used. They shall be durable and easily maintained. Materials and designs at pedestrian level shall be at human scale, that is they shall be designed to be understood and appreciated by someone on foot. Materials should be selected that respect the historic character of the surrounding area in texture, size and color.

(4) Building components such as doors, windows, overhangs, awnings, roof shapes and decorative elements shall all be designed to contribute to the proportions and scale of their surrounding context. Established mass/void relationships shall be maintained. Patterns and rhythms in the streetscape shall be continued.

(5) Colors shall be harmonious with the surrounding environment, but should not be dull. Choice of color should reflect the local and regional character. Nearby historic colors shall be respected.

(6) Mechanical equipment or other utility hardware should be screened from public view with materials compatible with the building design. Where possible, rooftop mechanical equipment should be screened, even from above. Where feasible, overhead utilities should also be underground or attractively screened. Exterior lighting shall be an integral part of the design. Interior lighting shall be controlled so that the spillover lighting onto public walkways is not annoying to pedestrians.

(7) Signs which are out of keeping with the character of the environment in question should not be used. Excessive size and inappropriate placement on buildings results in visual clutter. Signs should be designed to relate harmoniously to exterior building materials and colors. Signs should express a simple clear message with wording kept to a minimum.

(8) Auxiliary design. The site should take into account the compatibility of landscaping, parking facilities, utility and service areas, walkways and appurtenances. These should be designed with the overall environment in mind and should be in visual keeping with related buildings, structures and places.

FINDINGS:

- a. The property located at 2500 E Commerce, east of Downtown, is a public park with the common name of Dawn Park. The applicant is requesting approval to carry out various park improvements.
- b. PARK IMPROVEMENTS – The applicant has proposed various park improvements, including the reconstruction of the basketball court, installation of a shade canopy over the basketball court, two picnic canopies, and various Americans with Disabilities Act (ADA) improvements.
- c. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

RECOMMENDATION:

Staff recommends approval of the proposed park improvements based on findings a through c with the following stipulation:

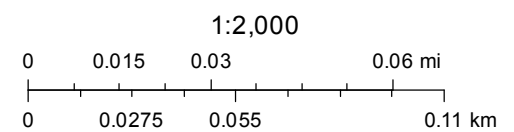
- i. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

2500 E Commerce



July 9, 2019

— User drawn lines





2500 East
Commerce Street

Dawson Park

Bowden Eye Care
& Health Institute

Arena Food Mart

Computer Alliance

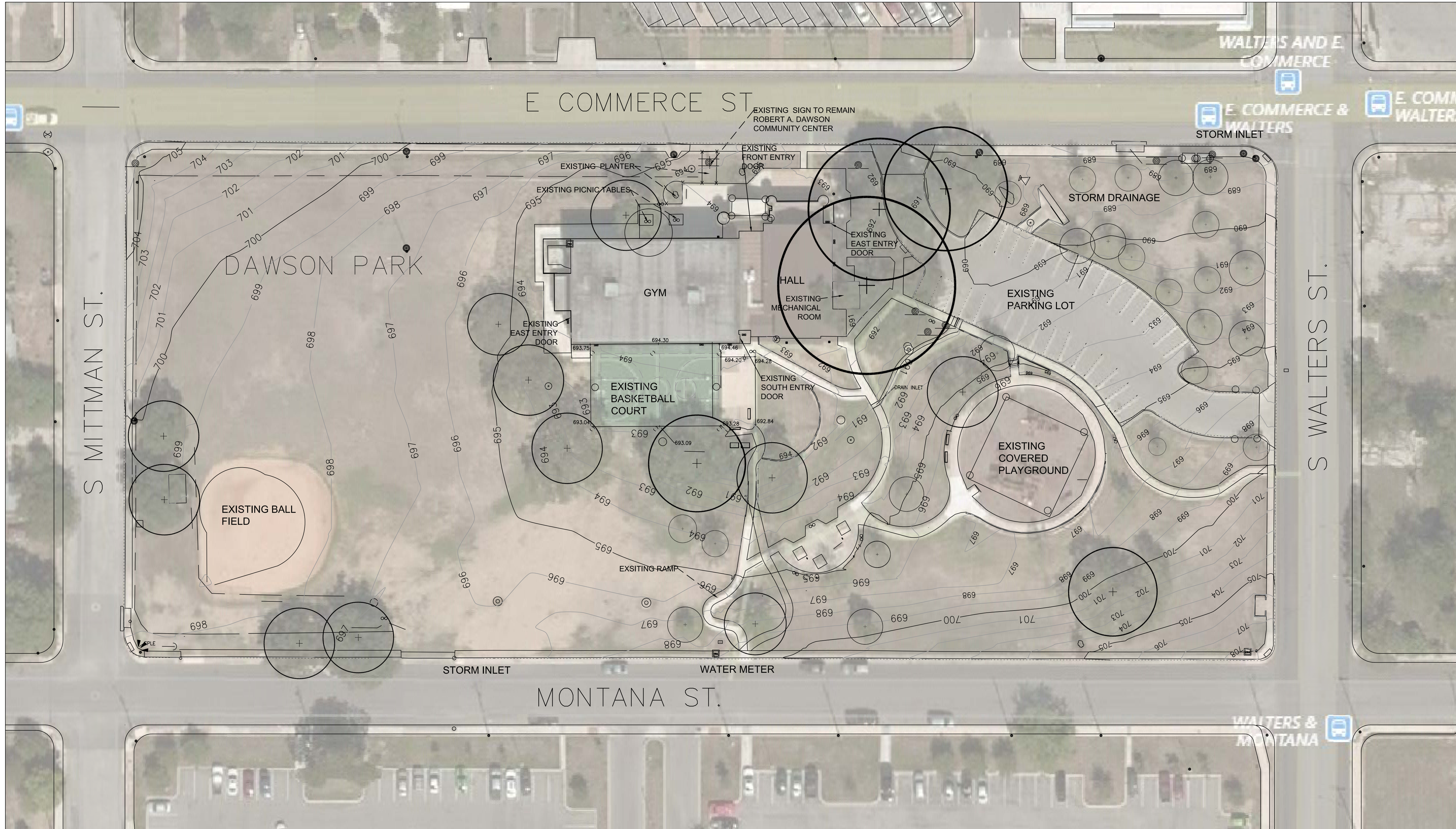
Victory Gospel Chapel

SPC- Child Development
Center (CDC)

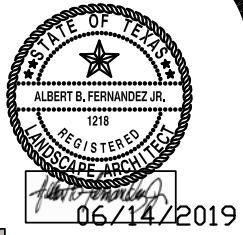
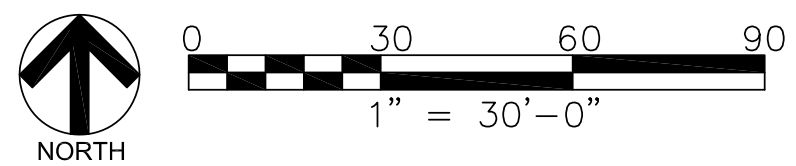
ATM

St. Polo Assn. Outlet

2226 Wyoming



EXISTING CONDITION PLAN



C&FZ GROUP LLC
Landscape Architecture
& Planning
2110 John Smith Suite 208
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax



PARK IMPROVEMENTS
DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX. 78203

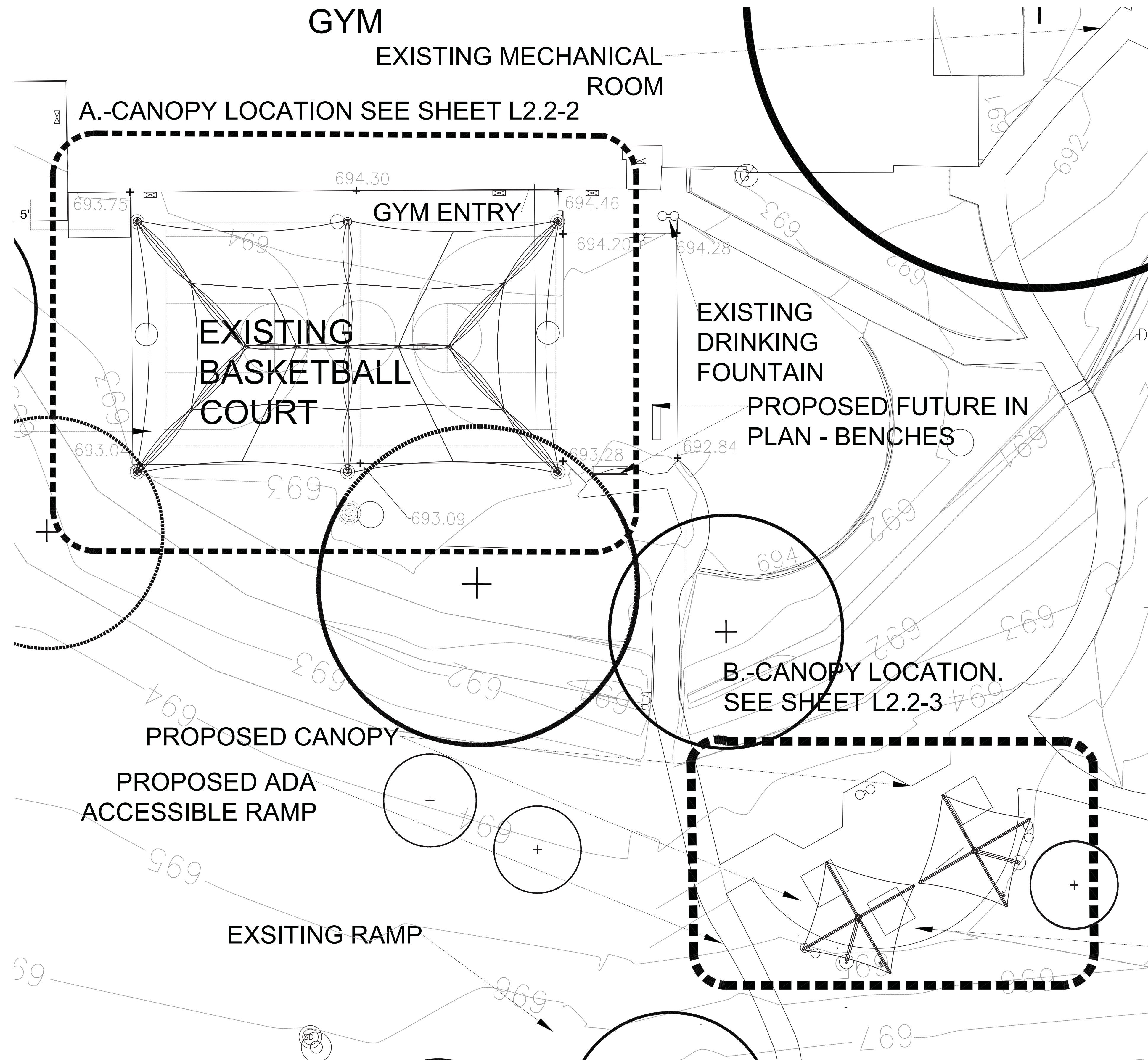


DRAWN: JC
CHECKED: AFJ
DATE: 06-14-19
JOB NO. 17-1131
REVISIONS :

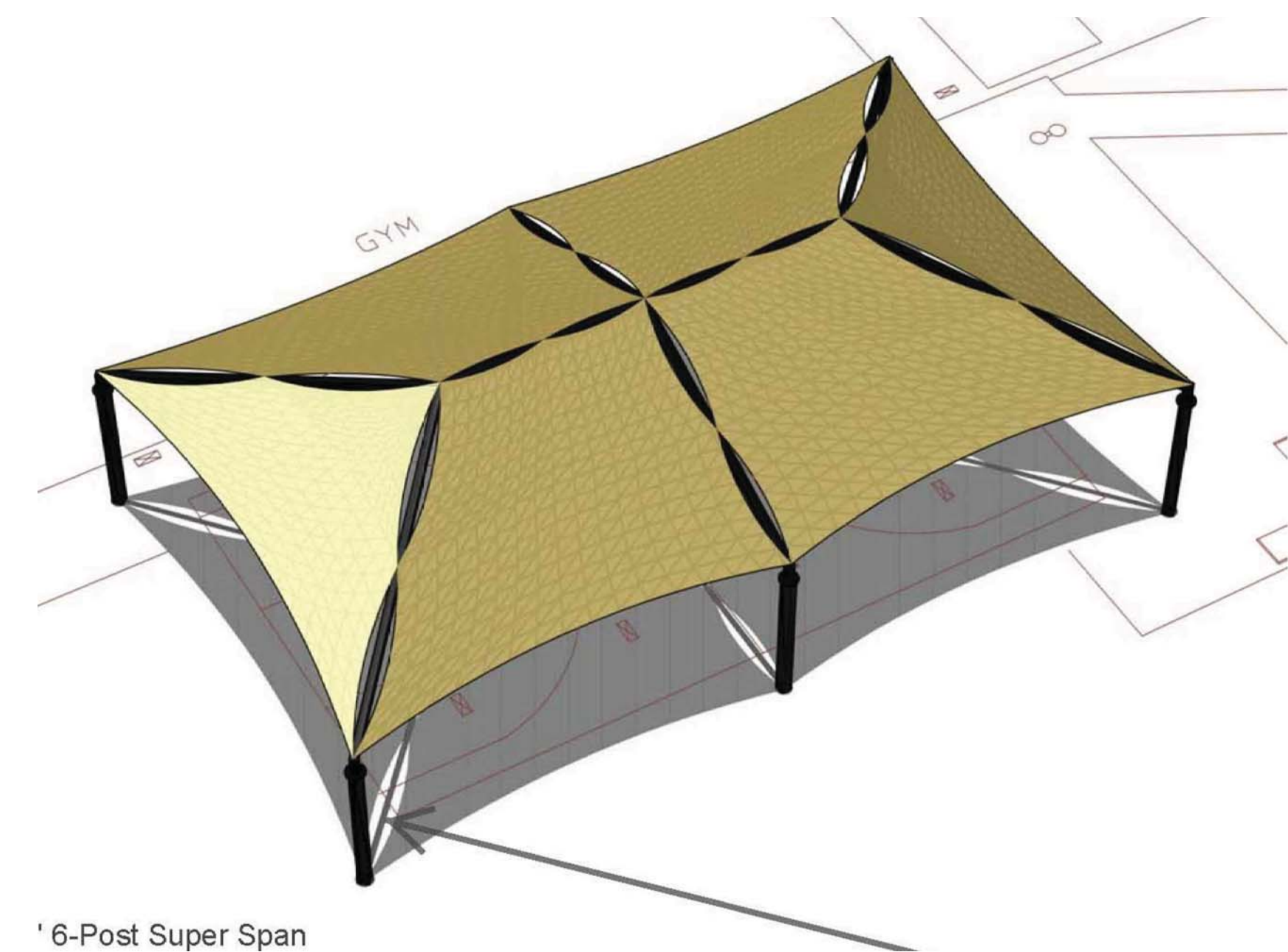
SHEET TITLE
AERIAL PLAN

SHEET NO.
L0.0

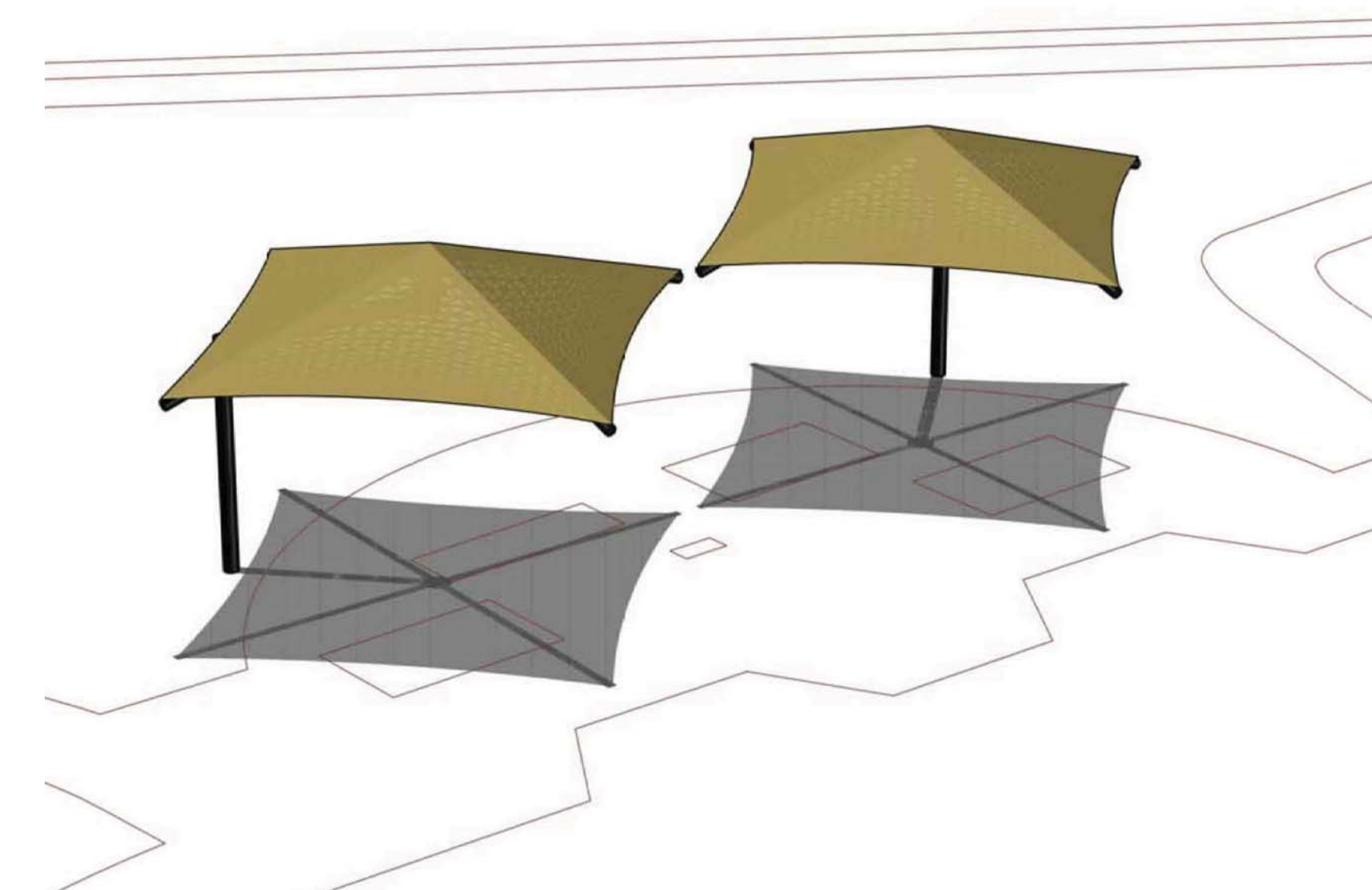
SHEET ____ OF ____



NOTE:
Hand holes and electrical integration pre-fabricated in column for lighting integration. Typical hand hole location ~6" above finished surface.



A.- Shade structure: Single (1) 74' x44" - 6 post Super Span . Refer to sheet L2.2-2 N.I.C by others

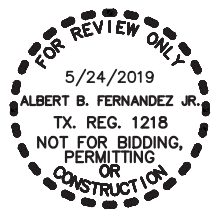
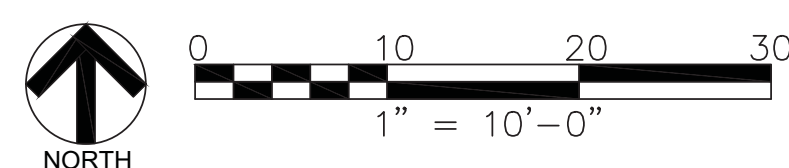


B.- 16'X16' Single Post Cantilevers Refer to sheet L2.2-2 N.I.C by others

LEGEND

- SVC
- WATER METER
- SANITARY SEWER LINES
- EXISTING UTILITY/LIGHT POLE
- EXISTING TRASH RECEPTACLE
- PROPOSED LED FIXTURE
- PROPOSED LED FIXTURE / WI-FI
- EXISTING POST
- PROPOSED POLE LIGHT LED FIXTURE
- PULLBOX

- CONCRETE IMPROVEMENTS
- PROPOSED DRAINAGE SWALE
- PROPOSED MULCH
- HERITAGE TREES



C-F-Z Group LLC
Landscape Architecture
& Planning
1410 Jolly Road, Suite 206
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax



PARK IMPROVEMENTS
DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX. 78203



DRAWN: JC
CHECKED: AFJ
DATE: 04-02-19
JOB NO. 17-1131
REVISIONS :

SHEET TITLE

CANOPY
PLAN

SHEET NO.

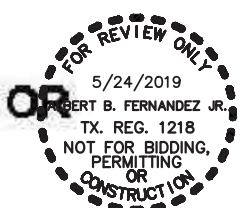
L2.2-1

SHEET ____ OF ____

FILE:

DATE:

NOTES:
-THESE DRAWINGS ARE A PICTORIAL REPRESENTATION OF FABRIC AND STEEL ONLY. NONE OF THE REQUIRED ATTACHMENT OR CONNECTION DETAILS HAVE BEEN DEPICTED.
-ALL DIMENSIONS AND HEIGHTS MUST BE FIELD VERIFIED PRIOR TO ANY FINAL DESIGN, FABRICATION OR INSTALLATION WORK.
-FINAL FOOTING TYPE AND SIZE WILL BE DETERMINED AT ENGINEERING PHASE.

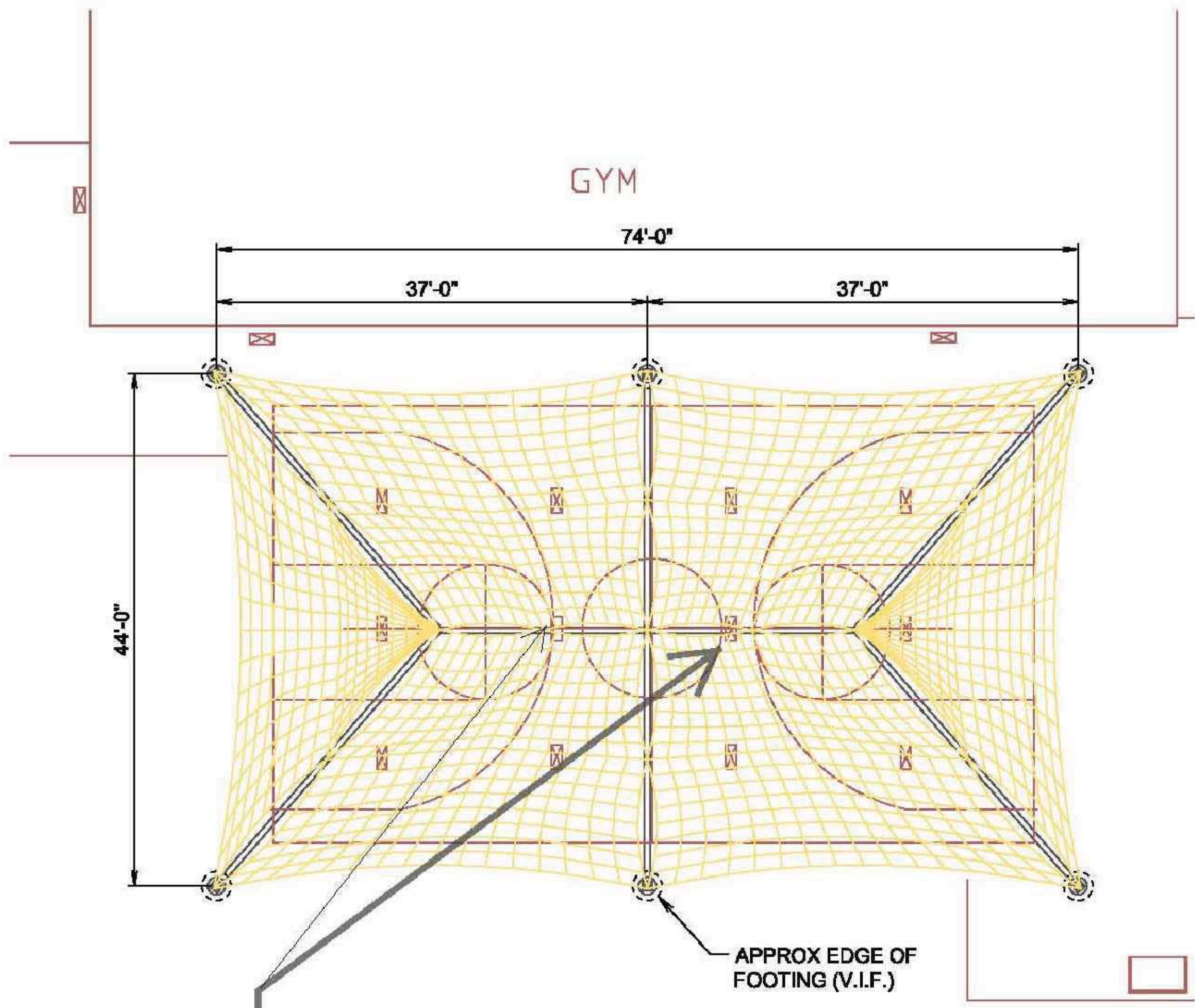


C-F-Z Group LLC
Landscape Architecture
& Planning
10110 Jolly Road, Suite 200
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax



PARK IMPROVEMENTS
DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX. 78203

CITY OF SAN ANTONIO TRANSPORTATION & CAPITAL IMPROVEMENTS	
DRAWN:	JC
CHECKED:	AFJ
DATE:	04-02-19
JOB NO.	17-1131
REVISIONS :	
SHEET TITLE	
CANOPY/DETAILS PLAN	
SHEET NO.	
L2.2-2	
SHEET ____ OF ____	

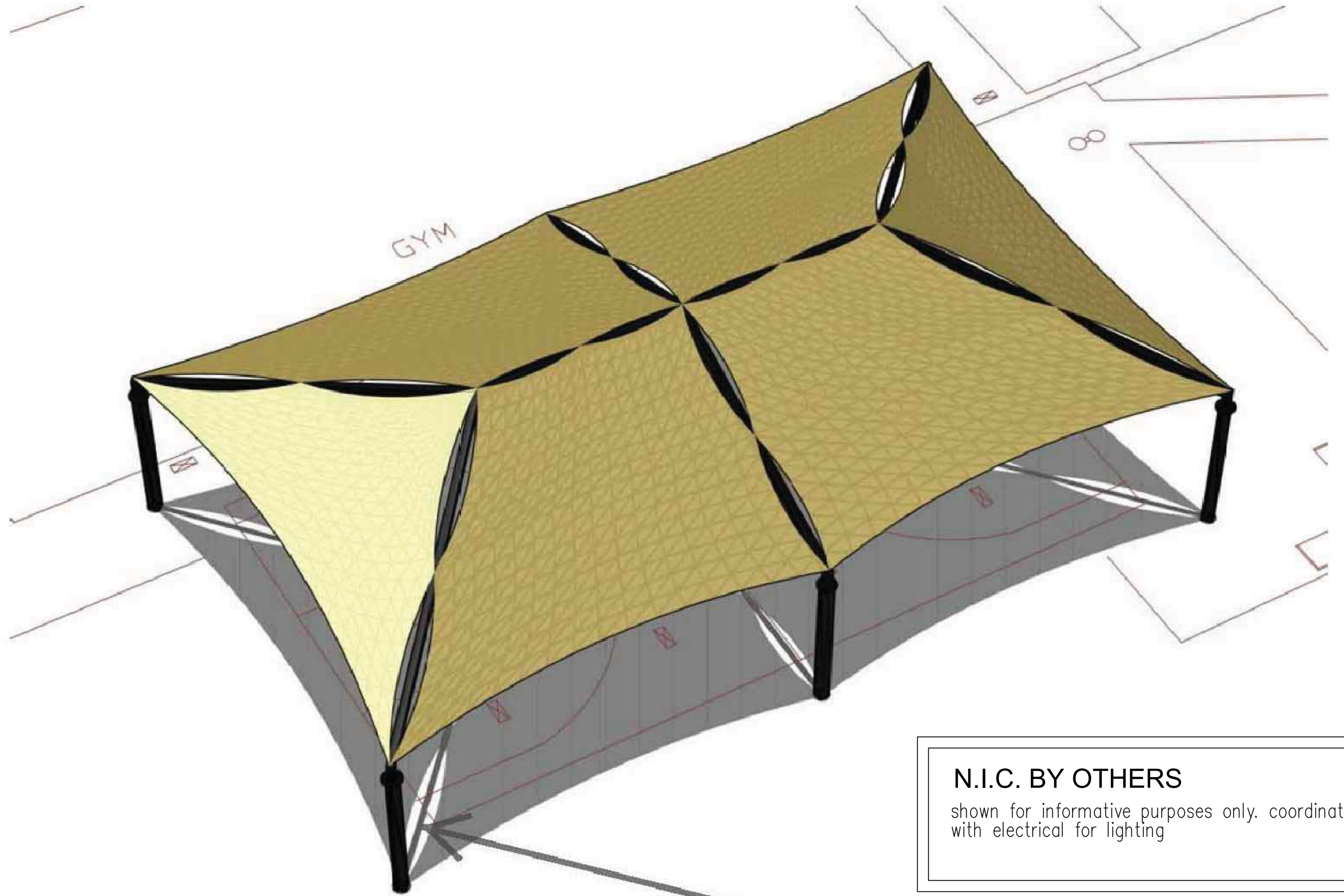


2 Light Fixture brackets -
pre-fabricated plate size
determined by lighting specified

PLAN VIEW

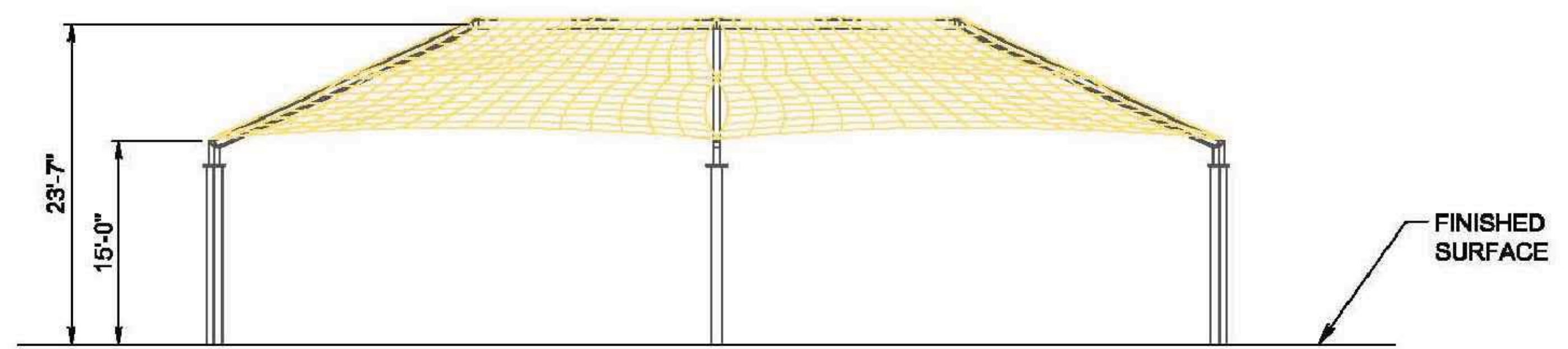


Shade Structure: Single (1) 74' x 44" 6-Post Super Span
Model # SBB-6PSSH-MP-74-44-15
As manufactured and installed by USA SHADE & Fabric Structures, Inc.
Contact: Michelle Botha (512) 937-6430
Email: Mbotha@usa-shade.com
Electrical integration does not include electrical hook up or light fixtures.

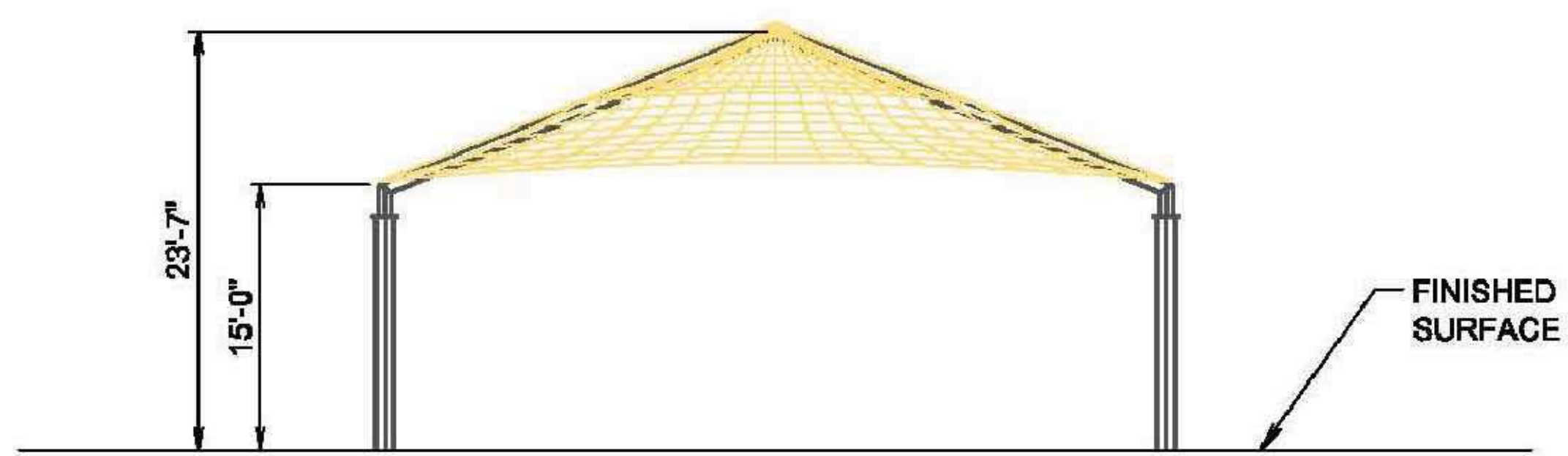


PERSPECTIVE VIEW

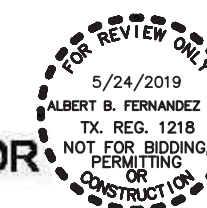
Hand holes and electrical
integration pre-fabricated in column
for lighting integration. Typical
hand hole location ~6" above
finished surface



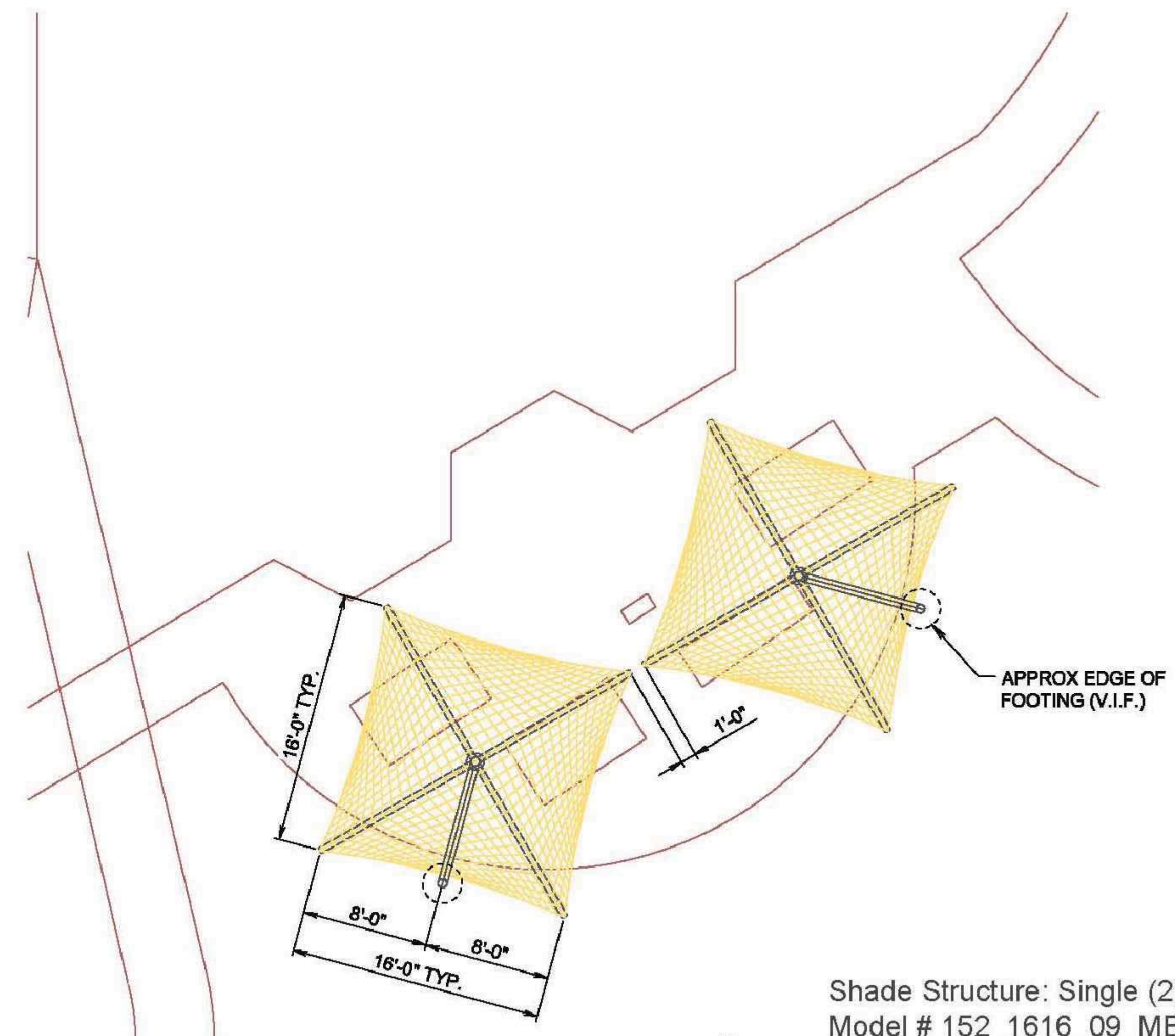
SOUTH ELEVATION



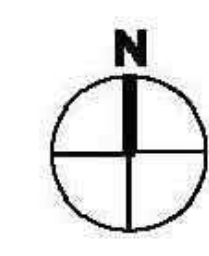
WEST ELEVATION



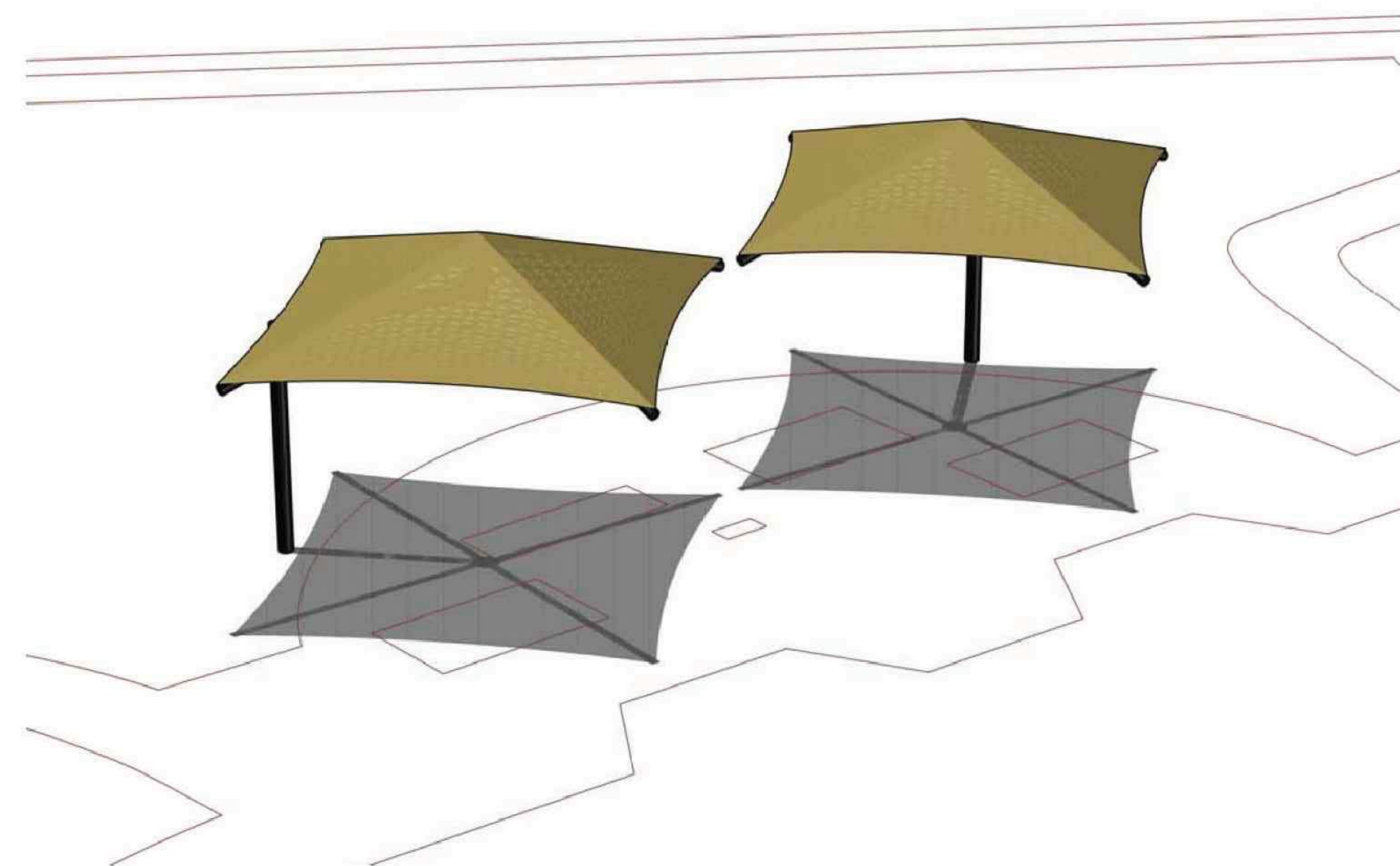
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PLAN VIEW

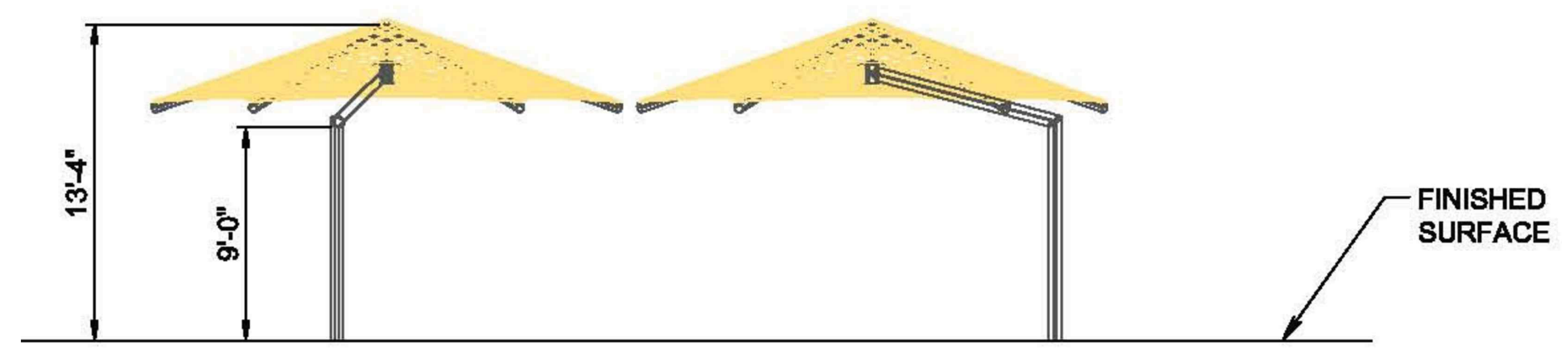


Shade Structure: Single (2) 16' x 16' Single Post Cantilevers
Model # 152_1616_09_MB
As manufactured and installed by USA SHADE & Fabric Structures, Inc.
Contact: Michelle Botha (512) 937-6430
Email: Mbotha@usa-shade.com

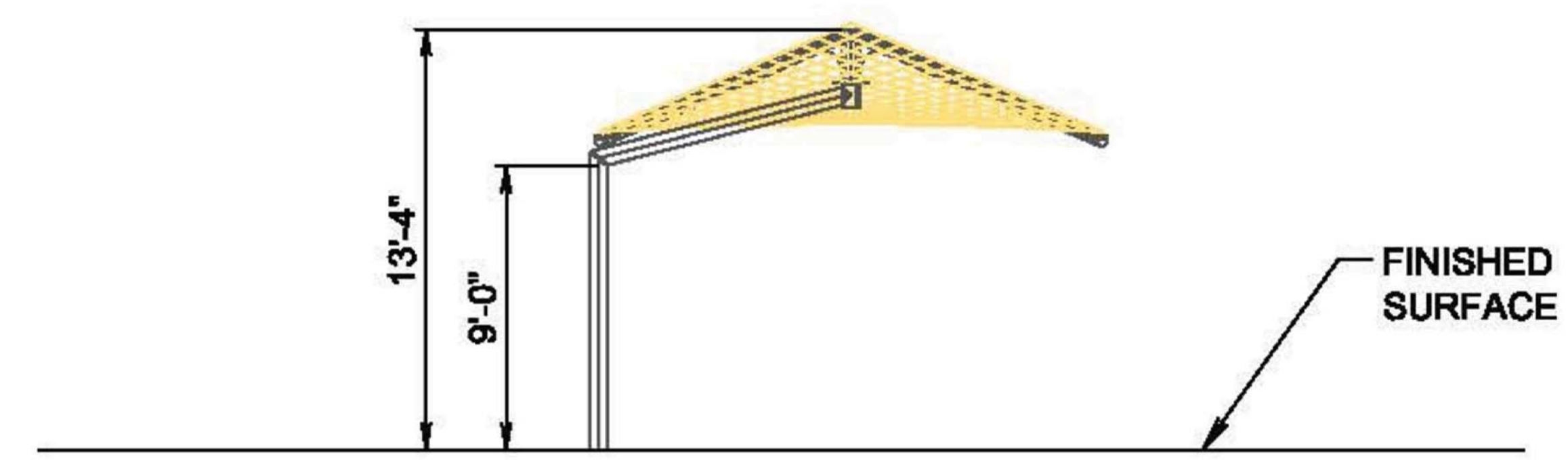


PERSPECTIVE VIEW

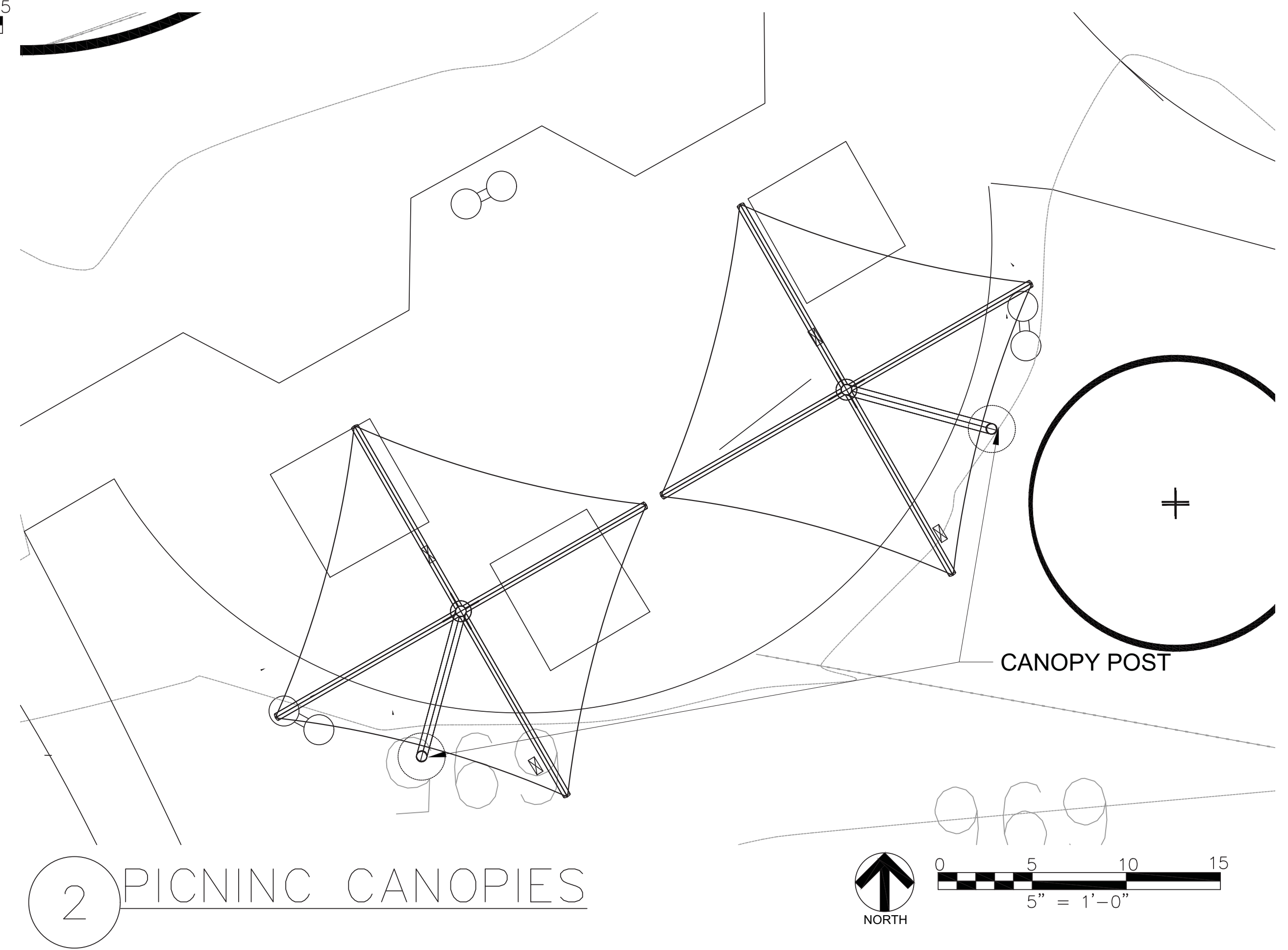
N.I.C. BY OTHERS
shown for informative purposes only. coordinate with electrical for lighting







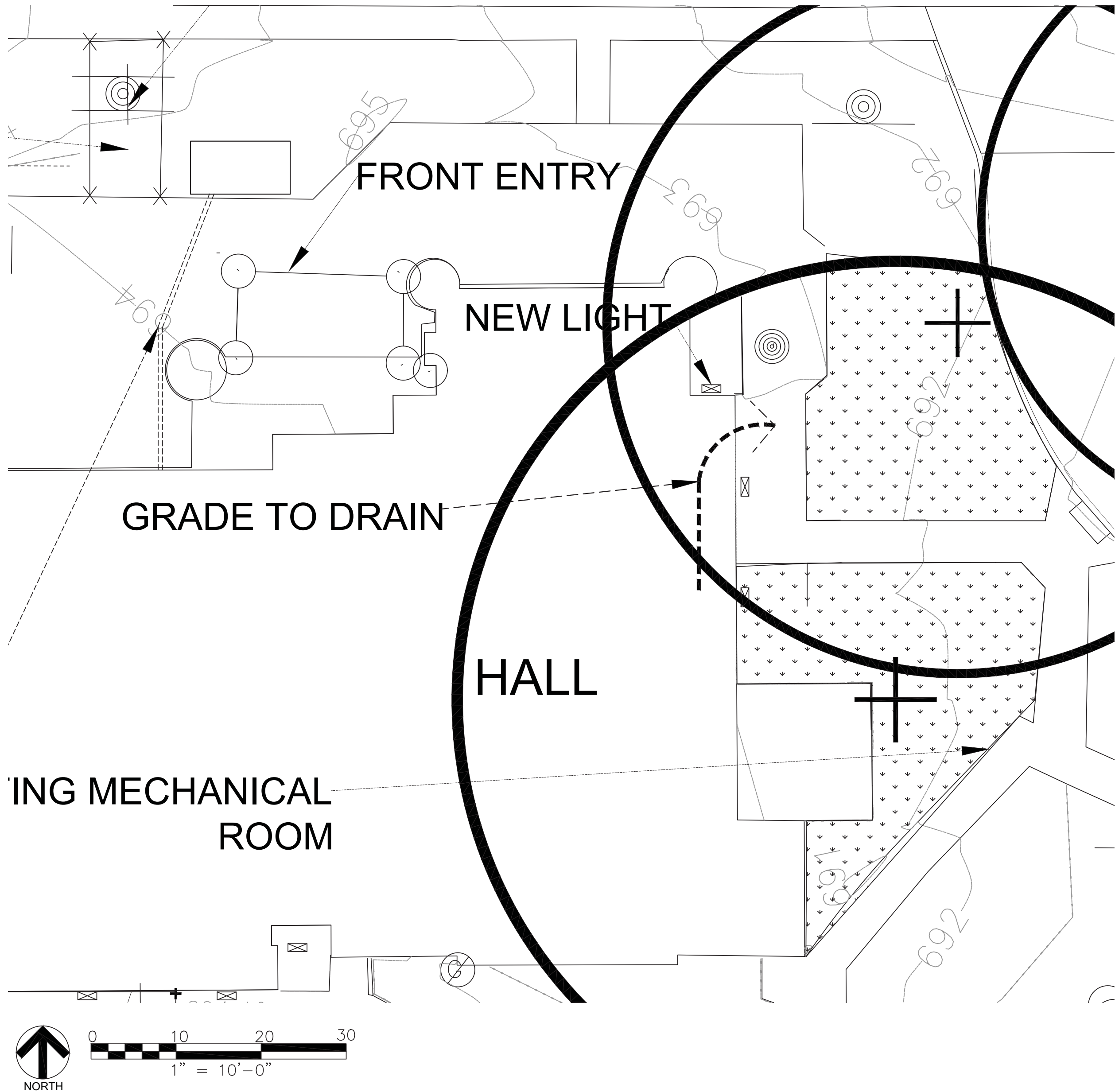
SOUTH ELEVATION



TYP. END VIEW



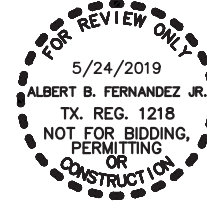
-  CONCRETE IMPROVEMENTS
 PROPOSED DRAINAGE SWALE
 PROPOSED MULCH
 HERITAGE TREES



LEGEND

- SVC
- WATER METER
- SANITARY SEWER LINES
- EXISTING UTILITY/LIGHT POLE
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- PROPOSED LED FIXTURE
- PROPOSED LED FIXTURE / WI-FI
- EXISTING POST
- PROPOSED POLE LIGHT LED FIXTURE
- PULLBOX

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- PROPOSED DRAINAGE SWALE
- PROPOSED MULCH
- HERITAGE TREES



PARK IMPROVEMENTS
DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX. 78203



DRAWN: JC
CHECKED: AFJ
DATE: 04-02-19
JOB NO. 17-1131
REVISIONS :

SHEET TITLE
LANDSCAPE
PLANTING
PLAN

SHEET NO.
L2.3

SHEET ____ OF ____



2500 E COMMERCE ST, SAN ANTONIO TX

SHEET _____ OF _____

DATE: _____

Date: Mar 26, 2019, 8:20pm User ID: Michael Washington1
File: D:\Undriven\Wack Engineers\Projects\2019\0303-18_CoSA Dawson Park_CFZ Drawings\CAD\Electrical\E0.00.dwg

ELECTRICAL SYMBOLS & ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

INTERIM
REVIEW ONLY
Document Incomplete; Not
Intended for permit,
bidding or construction.
Engineer: MICHAEL WASHINGTON
P.E. Reg. No.: 111774
Company Name:
MACK ENGINEERS
Texas Registered
Engineering Firm: F=15042.
Date: 03-29-19



MEP Design, Planning & Commissioning
10118 Emerald Sun, San Antonio, TX. 78245
(210) 899-9908 | TBPE# F-15042
www.mackengineers.com

C-F-Z Group LLC
2019-2020
Landscape Architecture
& Planning
2410 John Smith Suite 208
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax



PARK IMPROVEMENTS
DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

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CHECKED: MLW
DATE: 03-29-19
JOB NO. 17-1131
REVISIONS :

SHEET TITLE

ELECTRICAL
SYMBOLS, &
ABBREVIATIONS
GENERAL NOTES

SHEET NO.

E0.00

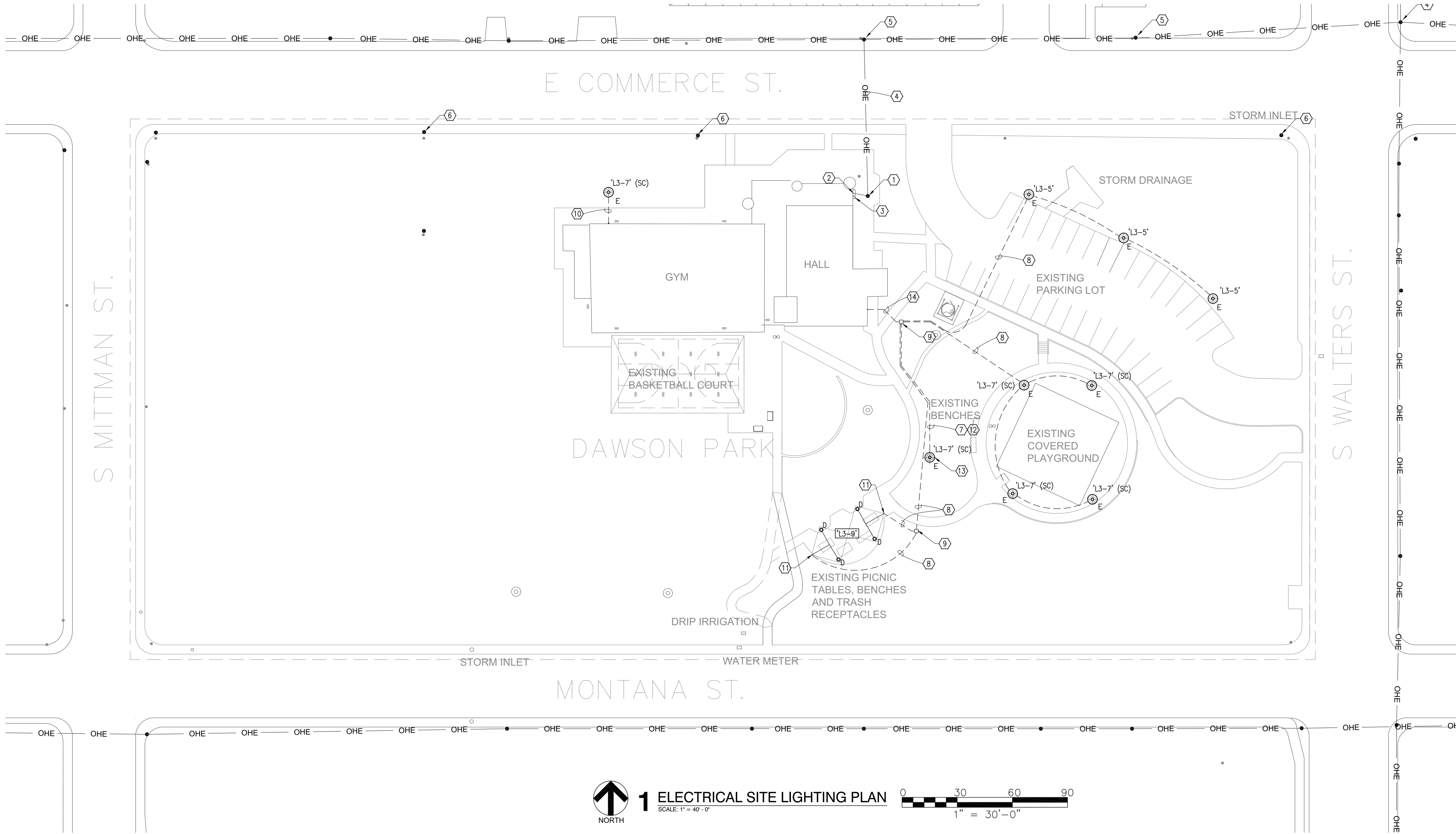
SHEET 1 OF 5

SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION		ABBREVIATION		DESCRIPTION	
GENERAL				RACEWAYS				FIRE ALARM (CON'T)							
<div><div> MOTOR, HP AS INDICATED</div><div> DISCONNECT SWITCH</div><div> MOTOR CONTROLLER</div><div> COMBINATION MOTOR CONTROLLER/DISCONNECT UNIT</div><div> VARIABLE FREQUENCY DRIVE</div><div> CONTACTOR</div><div> INTERCOM J BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS</div><div> JUNCTION BOX, CEILING MOUNTED</div><div> JUNCTION BOX, WALL MOUNTED</div><div> PHOTOCELL</div><div> RELAY</div><div> SPEAKER, CEILING MOUNTED</div><div> SPEAKER, WALL MOUNTED</div><div> TIME CLOCK</div><div> VOLUME CONTROL</div><div> BELL</div><div> BUZZER</div><div> PUSHBUTTON</div><div> CEILING MOUNTED CLOCK</div><div> WALL MOUNTED CLOCK - SINGLE OR DOUBLE FACE</div><div> HORN</div><div> TRANSFORMER</div><div> AUTOMATIC TRANSFER SWITCH</div><div> EQUIPMENT CONNECTION, HARD WIRED</div><div> DURESS ALARM BUTTON</div><div> CARD READER</div><div> DOOR RELEASE</div><div> MOTION DETECTOR (SECURITY SYSTEM)</div><div> MOTION SENSOR (LIGHTING CONTROL SYSTEM)</div><div> FIXED VIEW CAMERA</div><div> PAN, TILT, ZOOM CAPABLE CAMERA.</div></div>				<div><div> CONDUIT CONCEALED IN WALL OR CEILING WITH ONE PHASE, NEUTRAL AND GROUND CONDUCTOR U.N.O.</div><div> CONDUIT UNDER FLOOR OR CAST IN STRUCTURE WITH ONE PHASE, NEUTRAL AND GROUND CONDUCTOR U.N.O.</div><div> CONDUIT EXPOSED WITH ONE PHASE, NEUTRAL AND GROUND CONDUCTOR U.N.O.</div><div> SWITCH LEG</div><div> BRANCH CIRCUIT HOMERUN, WITH PANEL AND BREAKER POSITION INDICATED.</div><div> MULTI-OUTLET ASSEMBLY</div><div> TELEPHONE</div><div> BUS DUCT WITH TAKE OFF DEVICE</div><div> POWER/DATA POWER POLE.</div></div>				<div><div> HEAT DETECTOR</div><div> FLOW SWITCH</div><div> TAMPERS SWITCH</div><div> AUDIO/VISUAL NOTIFICATION APPLIANCE WALL/CEILING MOUNT. SUBSCRIPT INDICATES CANDELA RATING</div><div> VISUAL NOTIFICATION APPLIANCE WALL/CEILING MOUNT. SUBSCRIPT INDICATES CANDELA RATING</div><div> MAGNETIC DOOR HOLDER</div><div> RELAY</div><div> FIRE FIGHTERS PHONE JACK</div><div> FIRE FIGHTERS TELEPHONE</div><div> DOOR CONTACT</div><div> MAGNETIC LOCK</div></div>							
LIGHTING				OUTLET DEVICES				ABBREVIATION DESCRIPTION							
<div><div> INCANDESCENT OR HID FIXTURE, CEILING MOUNTED</div><div> HID FIXTURE EQUIPED WITH QUARTZ RESTRIKE</div><div> INCANDESCENT OR HID FIXTURE, WALL MOUNTED</div><div> INCANDESCENT OR HID WALL WASH FIXTURE, CEILING MOUNTED CLEAR SIDE INDICATES DIRECTION OF WASH</div><div> FLUORESCENT FIXTURE, CEILING OR WALL MOUNTED, SUBSCRIPT INDICATES ASSOCIATED SWITCHING</div><div> FIXTURE CONNECTED TO EMERGENCY SYSTEM</div><div> FIXTURE WITH ONE BALLAST CONNECTED TO EMERGENCY SYSTEM OR TO BATTERY BACK UP</div><div> FLUORESCENT PENDANT FIXTURES.</div><div> EXIT LIGHT, SINGLE/DOUBLE FACE CEILING MOUNTED WITH ARROWS AS INDICATED IN DRAWINGS</div><div> EXIT LIGHT, WALL MOUNTED, SINGLE/DOUBLE FACE WITH ARROWS AS INDICATED IN DRAWINGS</div><div> EMERGENCY LIGHT, BATTERY TYPE WITH CHARGER</div><div> SYMBOL IDENTIFYING FIXTURE TYPE. ALL FIXTURES THIS ROOM ARE FIXTURE TYPE INDICATED UNLESS INDIVIDUALLY MARKED</div><div> POLE MOUNTED LUMINAIRE, QUANTITY AS INDICATED</div><div> EXTERIOR FLOOD LIGHT</div><div> TRACK LIGHT - TYPE, LENGTH AND QUANTITY OF FIXTURES AS SCHEDULED.</div><div> OCCUPANCY SENSOR - WALL AND CEILING MOUNT RESPECTIVELY</div></div>				<div><div> SIMPLEX TWIST-LOCK RECEPTACLE NEMA L5-20</div><div> SIMPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20</div><div> DUPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20 U.N.O.</div><div> DUPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20 INSTALLED AT 48" AFF OR 4" ABOVE COUNTER TOP</div><div> ISOLATED GROUND, DUPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20</div><div> DUPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20; GFCI = GROUND FAULT CIRCUIT INTERRUPTING, WP = WEATHERPROOF NEMA 3R WHILE IN USE AC = ABOVE COUNTER, BC = BELOW COUNTER, T = TAMPER PROOF</div><div> QUADRAPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20</div><div> QUADRAPLEX RECEPTACLE - 20A, 120V 3W NEMA 5-20 INSTALLED AT 48" AFF OR 4" ABOVE COUNTER TOP</div><div> FLOOR OUTLET DEVICE, SINGLE SERVICE, POWER, SUBSCRIPT INDICATES TYPE. SEE SCHEDULES AND SPECIFICATIONS.</div><div> FLOOR OUTLET DEVICE, MULTIPLE SERVICE, POWER AND INFORMATION SYSTEM. SUBSCRIPT INDICATES TYPE. SEE SCHEDULES AND SPECIFICATIONS.</div><div> FLOOR OUTLET DEVICE, INFORMATION SYSTEM SUBSCRIPT INDICATES TYPE. SEE SCHEDULES AND SPECIFICATIONS.</div><div> TELEPHONE OUTLET 15" AFF (SUBSCRIPT W=WALL PHONE AT 54" AFF)</div><div> INFORMATION SYSTEM OULET. SEE SPECIFICATIONS</div><div> COMBINATION TELEPHONE AND DATA OUTLET - 15" AFF U.N.O.</div><div> CABLE TELEVISION OUTLET - 15" AFF U.N.O.</div></div>				<div><div> AMPERE(S)</div><div> ABOVE</div><div> ABOVE COUNTER</div><div> AIR CONDITIONING</div><div> AMPERE INTERRUPTING CAPACITY</div><div> ABOVE FINISHED FLOOR</div><div> ABOVE FINISHED GRADE</div><div> AIR HANDLING UNIT</div><div> AUTOMATIC TRANSFER SWITCH</div><div> BELOW FINISHED FLOOR</div><div> BELOW FINISHED GRADE</div><div> BUILDING</div><div> CONDUIT</div><div> CIRCUIT BREAKER</div><div> CLOSE CIRCUIT TELEVISION</div><div> CIRCUIT</div><div> CONDUCTOR</div><div> CENTRAL PROCESSING UNIT</div><div> DIAMETER</div><div> DISTRIBUTION</div><div> DOWN</div><div> DRAWINGS</div><div> EMPTY CONDUIT</div><div> ELECTRIC DRINKING FOUNTAIN</div><div> EXHAUST FAN</div><div> ELEC. METALLIC TUBING</div><div> EQUIPMENT</div><div> ELECTRIC WATER COOLER</div><div> EXHAUST</div><div> EXPLOSION PROOF</div><div> EXISTING</div><div> FIRE ALARM</div><div> FOOTCANDLES</div><div> FAN COIL UNIT</div><div> FLEXIBLE METAL CONDUIT</div><div> FLUORESCENT</div><div> FULL NEUTRAL</div><div> FEET, FOOT</div><div> GALVANIZED</div><div> GROUND FAULT CIRCUIT INTERRUPTER</div><div> GROUND FAULT INTERRUPTER</div><div> GROUND</div><div> HIGH INTENSITY DISCHARGE</div><div> HORSEPOWER</div><div> HAND OFF AUTOMATIC</div><div> HIGH PRESSURE SODIUM</div><div> HEATING/VENTILATING/AIR CONDITIONING</div><div> HERTZ</div></div>							
PANELS AND RELATED ITEMS				SWITCH DEVICES				FIRE ALARM							
<div><div> PANELBOARD (SEE SCHEDULE)</div><div> SWITCHBOARD OR DISTRIBUTION BOARD</div><div> MOTOR CONTROL CENTER</div><div> PULL BOX</div><div> PLYWOOD TELEPHONE BACKBOARD</div></div>				<div><div> SINGLE POLE SWITCH</div><div> SWITCH - DOUBLE POLE, 3-WAY OR 4 WAY</div><div> KEY OPERATED SWITCH</div><div> SWITCH WITH PILOT LIGHT IN HANDLE (ON LIGHTED UNLESS OTHERWISE NOTED)</div><div> WEATHERPROOF SWITCH</div><div> MANUAL MOTOR STARTER (T=THERMAL OVERLOAD SIZED FOR MOTOR)</div><div> INCANDESCENT DIMMER SWITCH WATTAGE RATING AS SHOWN IN () 6=600, 1=1000, 5=1500, 2=2000</div><div> FLUORESCENT DIMMER SWITCH, NUMBER OF LAMPS AS SHOWN IN ()</div><div> COMBINATION SWITCH AND OCCUPANCY SENSOR</div><div> EXPLOSION PROOF SWITCH</div><div> DOOR SWITCH</div><div> TIMER SWITCH</div><div> LOW VOLTAGE OVERRIDE SWITCH</div></div>				<div><div> FIRE ALARM CONTROL PANEL</div><div> FIRE ALARM ANNUNCIATOR PANEL</div><div> REMOTE COMMAND CENTER</div><div> MANUAL PULL STATION 48" AFF</div><div> SMOKE DETECTOR</div><div> SMOKE DETECTOR, DUCT MOUNTED</div><div> TEST SWITCH/REMOTE INDICATOR</div><div> FIRE SPRINKLER PRESSURE SWITCH</div></div>							

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Date: Mar 27, 2019, 5:18pm User: ID: Michael Washington1
File: D:\Unedrive\Work\Engineers\Projects\2018\0035-18_COSA Dawson Park_CFZ Drawings\CAD\Electrical\E1.00.dwg



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Engineer: MICHAEL WASHINGTON
P.E. Reg. No.: 111774
Company Name:
MACK ENGINEERS
Texas Registered
Engineering Firm: F-15042
Date: 03-29-19



MEP Design, Planning & Commissioning
10118 Emerald Sun, San Antonio, TX. 78245
(210) 899-9908 | TBPE# F-15042
www.mackengineers.com

GENERAL NOTES: (THIS SHEET ONLY)

- CONDUIT LINES SHOWN ON DRAWING ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND CHOOSE APPROPRIATE CONDUIT ROUTING. IN THE EVENT THAT APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER.
- LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
- ANY EXISTING FINISHED AREAS DISTURBED BY NEW INSTALLATION SHALL BE BROUGHT BACK TO AS-IS CONDITION.
- AREA SITE LIGHT FIXTURE TO BE CONTROLLED BY TIME CLOCK AND PHOTOCELL FOR DUSK TO DAWN OPERATION.
- REFERENCE LIGHT FIXTURE SCHEDULE, THIS SHEET, FOR ADDITIONAL FIXTURE INFORMATION.

KEYED NOTES: (THIS SHEET ONLY)

- EXISTING CPS ENERGY SERVICE RISER POLE WITH TRANSFORMERS TO REMAIN.
- EXISTING ELECTRICAL SERVICE ENTRANCE EQUIPMENT TO REMAIN. REFERENCE ONE-LINE DIAGRAM, SHEET E2.00, FOR ADDITIONAL INFORMATION.
- EXISTING CPS ENERGY UTILITY METER TO REMAIN. REFERENCE ONE-LINE DIAGRAM, SHEET E2.00, FOR ADDITIONAL INFORMATION.
- EXISTING OVERHEAD UTILITY LINE TO REMAIN.
- EXISTING CPS ENERGY UTILITY POLE TO REMAIN.
- EXISTING CPS ENERGY UTILITY POLE WITH STREET LIGHT FIXTURE TO REMAIN.
- PROVIDE 2#10, 1#10 GND. IN 1" UNDERGROUND CONDUIT FOR LIGHT FIXTURE POWER. PROVIDE 2#10, 1#10 GND. IN 1" UNDERGROUND CONDUIT FOR POWER TO OUTDOOR WIFI RECEPTACLE ON POLE LIGHT.
- PROVIDE 2#10, 1#10 GND. IN 1" UNDERGROUND CONDUIT FOR POWER TO LIGHT FIXTURES.
- PROVIDE TIER 15 HANDHOLE WITH BOLT ON COVER. HANDHOLE TO BE SIZED PER NEC SECTION 314.28. BOX DEPTH TO BE 6" DEEPER THAN ENTERING CONDUIT DEPTH.
- SAW CUT AND ROUTE CONDUIT UNDERGROUND TO BUILDING EXTERIOR WALL. ROUTE CONDUIT UP WALL TO ABOVE CEILING HEIGHT AND PENETRATE WALL. ROUTE TO ELECTRICAL PANEL AND CONNECT TO CIRCUIT AS NOTED.
- ROUTE CONDUIT TO LIGHT POWER INTEGRATION SPACE IN STRUCTURAL COLUMN OF CANOPY. COORDINATE FINAL LOCATION AND ROUTING REQUIREMENTS WITH CANOPY VENDOR PRIOR TO ROUGH-IN.
- PROVIDE 1" SPARE CONDUIT FROM IT EQUIPMENT LOCATION IN DAWSON COMMUNITY CENTER TO LIGHT POLE FOR COMMUNICATIONS WIRING TO EXTERIOR WIFI DEVICE. FOLLOW ROUTE OF POWER CONDUIT AND PROVIDE SEPARATION AS REQUIRED BY CODE. TURN CONDUIT INTO BOTTOM OF POLE BASE TO BOTTOM OF HANDHOLE. PROVIDE CONDUIT WITH PULLSTRING AND END BUSHINGS.
- PROVIDE FIXTURE POLE WITH GFI ENCLOSURE AND BANNER ARM OPTIONS MOUNTED AT 12'. PROVIDE 20A DUPLEX GFI RECEPTACLE IN ENCLOSURE. PROVIDE 1" HOLE AND PULLSTRING FOR PULLING OF COMMUNICATIONS CABLE TO WIFI DEVICE. WIFI DEVICE BY OWNER. CONNECT RECEPTACLE TO CIRCUIT NOTED ON PANEL SCHEDULE 'L3', SHEET E2.01.
- PROVIDE 6#10, 3#10 GND. IN 1-1/2" UNDERGROUND CONDUIT FOR LIGHT FIXTURE POWER. PROVIDE 2#10, 1#10 GND. IN 1" UNDERGROUND CONDUIT FOR POWER TO OUTDOOR WIFI RECEPTACLE ON POLE LIGHT.



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2500 E COMMERCE ST, SAN ANTONIO TX



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DATE: 03-29-19

JOB NO. 17-1131

REVISIONS :

SHEET TITLE

ELECTRICAL SITE
LIGHTING PLAN

SHEET NO.

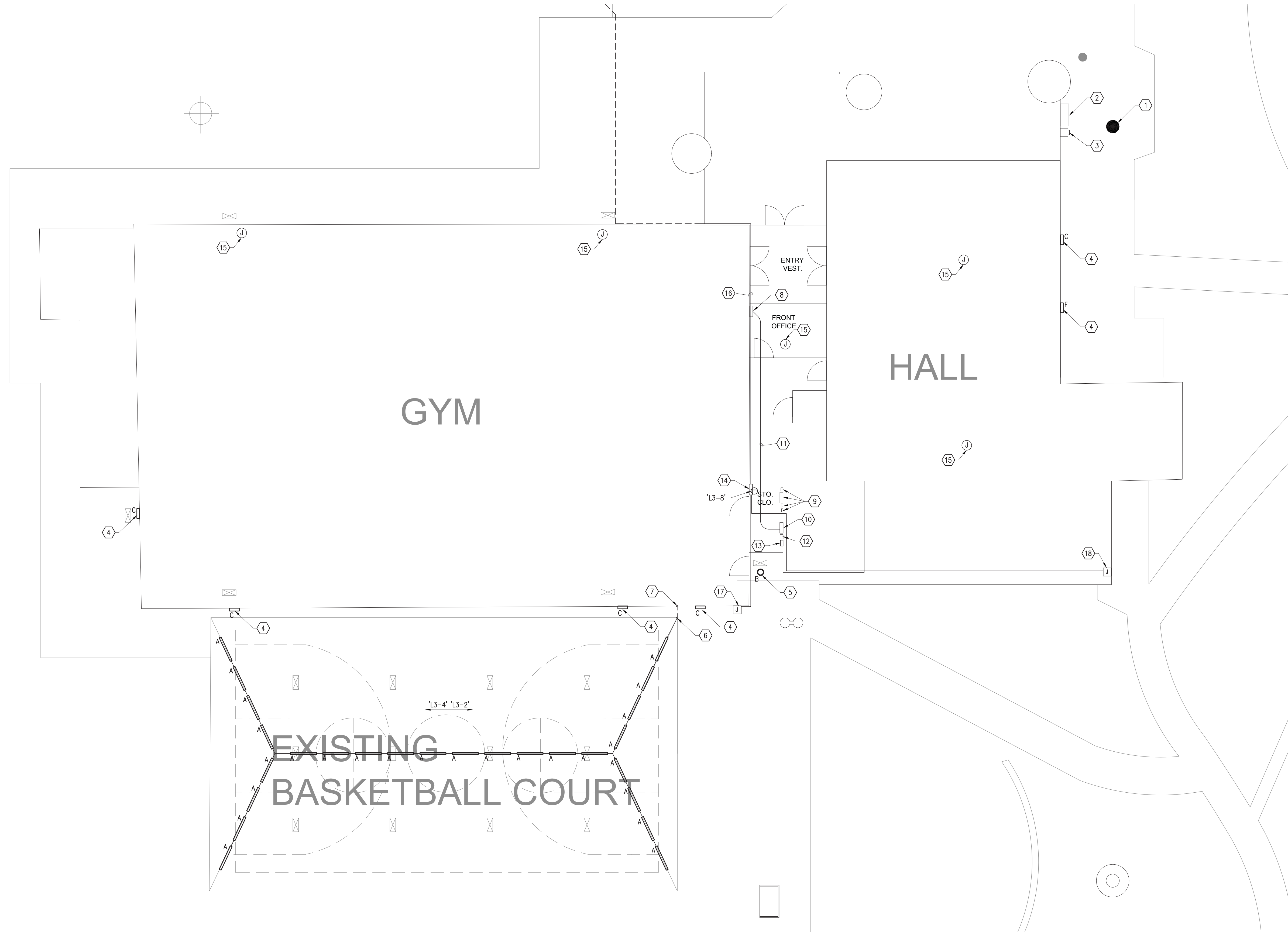
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SHEET 2 OF 5

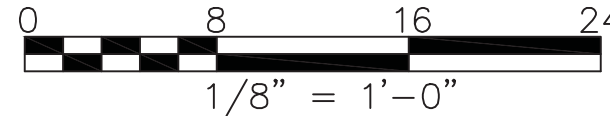
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Date: Mar 26, 2019, 9:29pm User ID: Michael Washington
File: D:\Undrive\Wack Engineers\Projects\2018\0035-18_Cosa Dawson Park_CFZ Drawings\CAD\Electrical\E1.01.dwg



1 ENLARGED BUILDING ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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- LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
- PROVIDE CODE COMPLIANT LABELS DENOTING REQUIRED WORKING CLEARANCE IN FRONT OF PANELS. PROVIDE TAPE ON FLOOR TO PHYSICALLY DENOTE THE WORKING CLEARANCE AREA.
- ANY EXISTING FINISHED AREAS DISTURBED BY NEW INSTALLATION SHALL BE BROUGHT BACK TO AS-IS CONDITION.
- AREA SITE LIGHT FIXTURE TO BE CONTROLLED BY PHOTOCELL FOR DUSK TO DAWN OPERATION.
- REFERENCE LIGHT FIXTURE SCHEDULE, SHEET E2.01, FOR ADDITIONAL FIXTURE INFORMATION.

KEYED NOTES: (THIS SHEET ONLY)

- EXISTING CPSE SERVICE RISER POLE WITH TRANSFORMERS TO REMAIN.
- EXISTING ELECTRICAL SERVICE ENTRANCE EQUIPMENT TO REMAIN.
- EXISTING CPSE UTILITY METER TO REMAIN.
- EXISTING FLOOD LIGHT FIXTURE TO BE REPLACED WITH NEW FIXTURE AS NOTED. SALVAGE EXISTING CIRCUIT FOR RECONNECTION TO NEW FIXTURE.
- EXISTING CEILING MOUNTED FIXTURE TO BE REPLACED WITH NEW CEILING MOUNTED FIXTURE AS NOTED. SALVAGE CIRCUIT FOR RECONNECTION TO NEW FIXTURE.
- ROUTE CONDUIT TO LIGHT POWER INTEGRATION SPACE IN STRUCTURAL COLUMN OF CANOPY. COORDINATE FINAL LOCATION AND ROUTING REQUIREMENTS WITH CANOPY VENDOR PRIOR TO ROUGH-IN.
- SAW CUT AND ROUTE CONDUIT UNDERGROUND TO BUILDING EXTERIOR WALL. ROUTE CONDUIT UP WALL TO ABOVE CEILING HEIGHT AND PENETRATE WALL. ROUTE TO STORAGE CLOSET AND CONNECT TO PANEL 'L3' AS NOTED.
- EXISTING PANEL 'L1' IN FRONT OFFICE TO REMAIN. PROVIDE BREAKER FOR FEED TO NEW PANEL 'L3'. REFERENCE PANEL SCHEDULES, SHEET E2.00, FOR SIZING AND ADDITIONAL INFORMATION.
- EXISTING PANEL 'L2', TIME CLOCKS AND JUNCTION BOX IN STORAGE CLOSET TO REMAIN. REFERENCE PANEL SCHEDULES, SHEET E2.00, FOR ADDITIONAL INFORMATION.
- NEW PANEL 'L3' IN STORAGE CLOSET. REFERENCE PANEL SCHEDULES, SHEET E2.01, FOR SIZING AND ADDITIONAL INFORMATION.
- CONDUIT FROM EXISTING PANEL 'L1' TO NEW PANEL 'L3'. CONTRACTOR TO DETERMINE BEST ROUTING OPTION IN FIELD.
- PROVIDE NEW TIME CLOCK FOR LIGHTING CONTROL. REFERENCE ONE-LINE DIAGRAM, SHEET E2.00, FOR ADDITIONAL INFORMATION.
- PROVIDE ENCLOSURE FOR LIGHTING CONTACTORS. REFERENCE ONE-LINE DIAGRAM, SHEET E2.00, FOR ADDITIONAL INFORMATION.
- PROPOSED LOCATION OF COMMUNICATIONS EQUIPMENT. EQUIPMENT TO BE PROVIDED BY 3RD PARTY VENDOR.
- PROVIDE 1" CONDUIT FROM ABOVE COMMUNICATIONS EQUIPMENT LOCATION TO 4" SQUARE RECESSED CEILING MOUNTED JUNCTION BOX FOR WIFI DEVICE. DEVICE TO BE PROVIDED BY 3RD PARTY VENDOR.
- PROVIDE 2" CONDUIT FROM COMMUNICATIONS EQUIPMENT LOCATION TO BUILDING EXTERIOR. ROUTE DOWN BUILDING EXTERIOR TO UNDERGROUND. FOLLOW ACCESSIBLE TRENCH DRAIN ROUTE BACK TO SERVICE POLE. COORDINATE UNDERGROUND ROUTING WITH LANDSCAPE DRAWINGS AND TRENCH LOCATION.
- PROVIDE 1" CONDUIT FROM ABOVE COMMUNICATIONS EQUIPMENT LOCATION TO EXTERIOR RATED 4" SQUARE WALL MOUNTED JUNCTION BOX FOR WIFI DEVICE. DEVICE TO BE PROVIDED BY 3RD PARTY VENDOR.
- PROVIDE 1" CONDUIT FROM ABOVE COMMUNICATIONS EQUIPMENT LOCATION TO WALL MOUNTED 4" SQUARE JUNCTION BOX FOR COMMUNICATIONS OUTLETS. OUTLETS TO BE PROVIDED BY 3RD PARTY VENDOR. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.



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TRANSPORTATION & CAPITAL IMPROVEMENTS

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DATE: 03-29-19

JOB NO. 17-1131

REVISIONS :

SHEET TITLE

ENLARGED BUILDING
ELECTRICAL PLAN

SHEET NO.

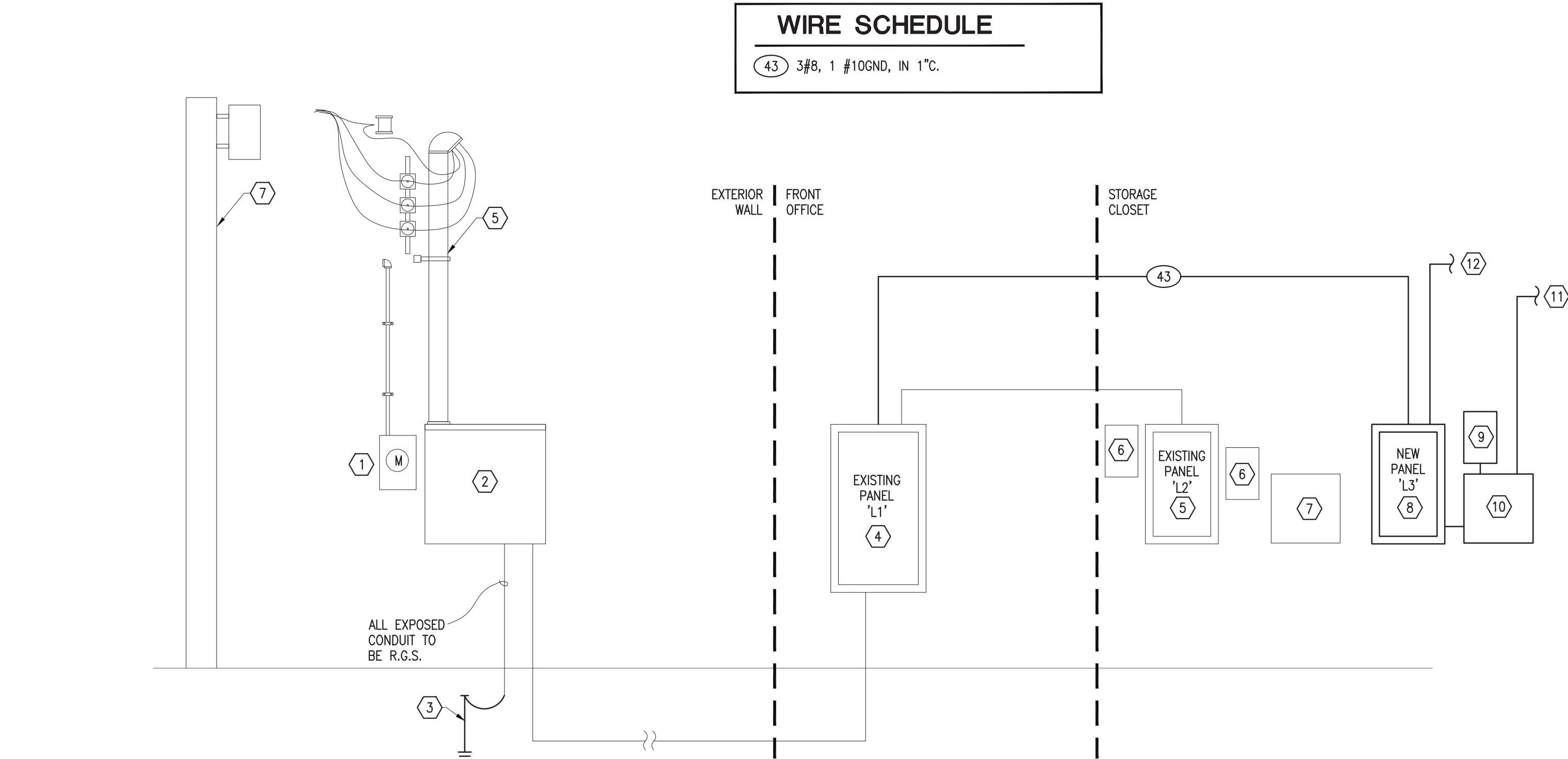
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SHEET 3 OF 5

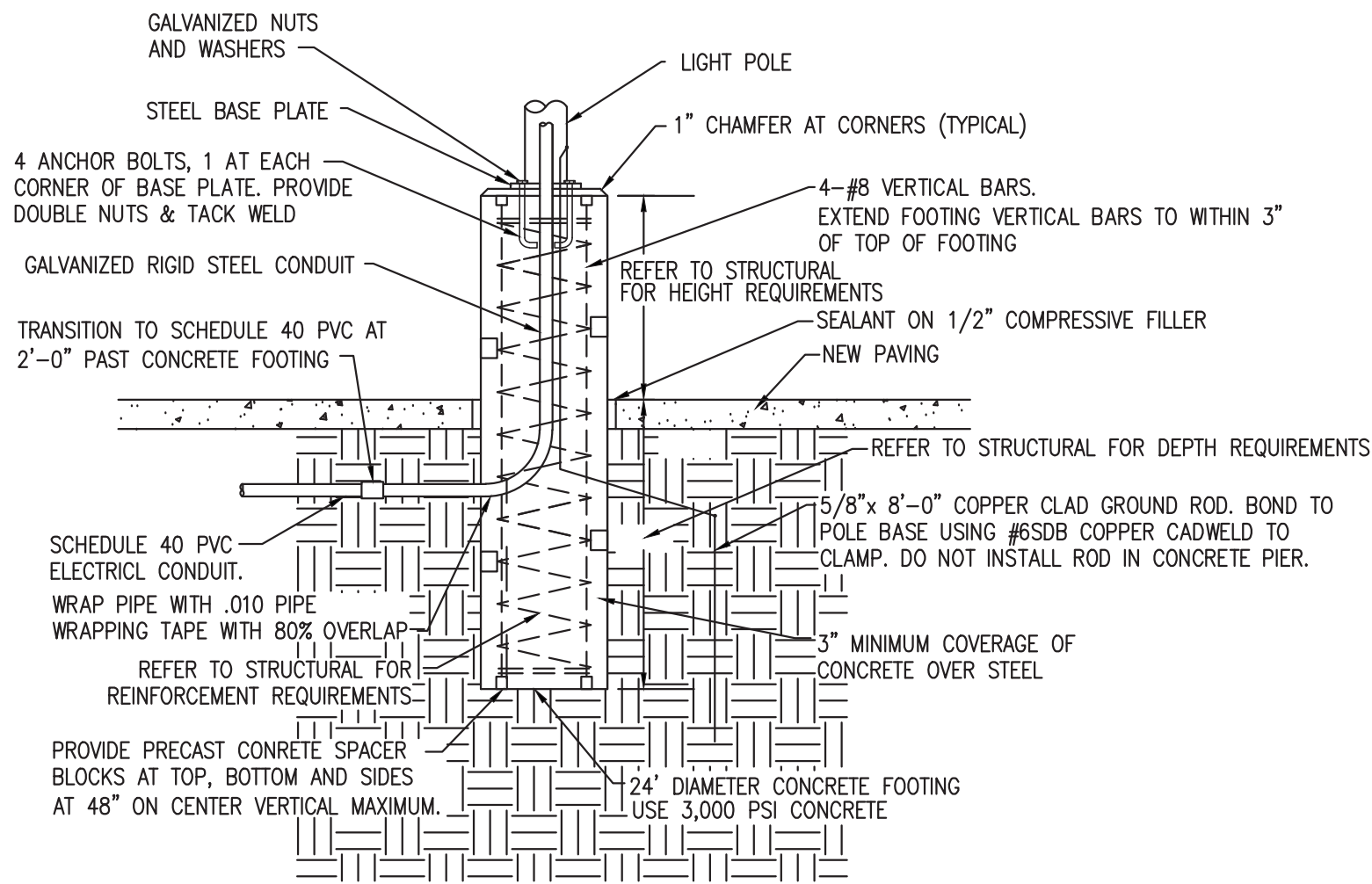
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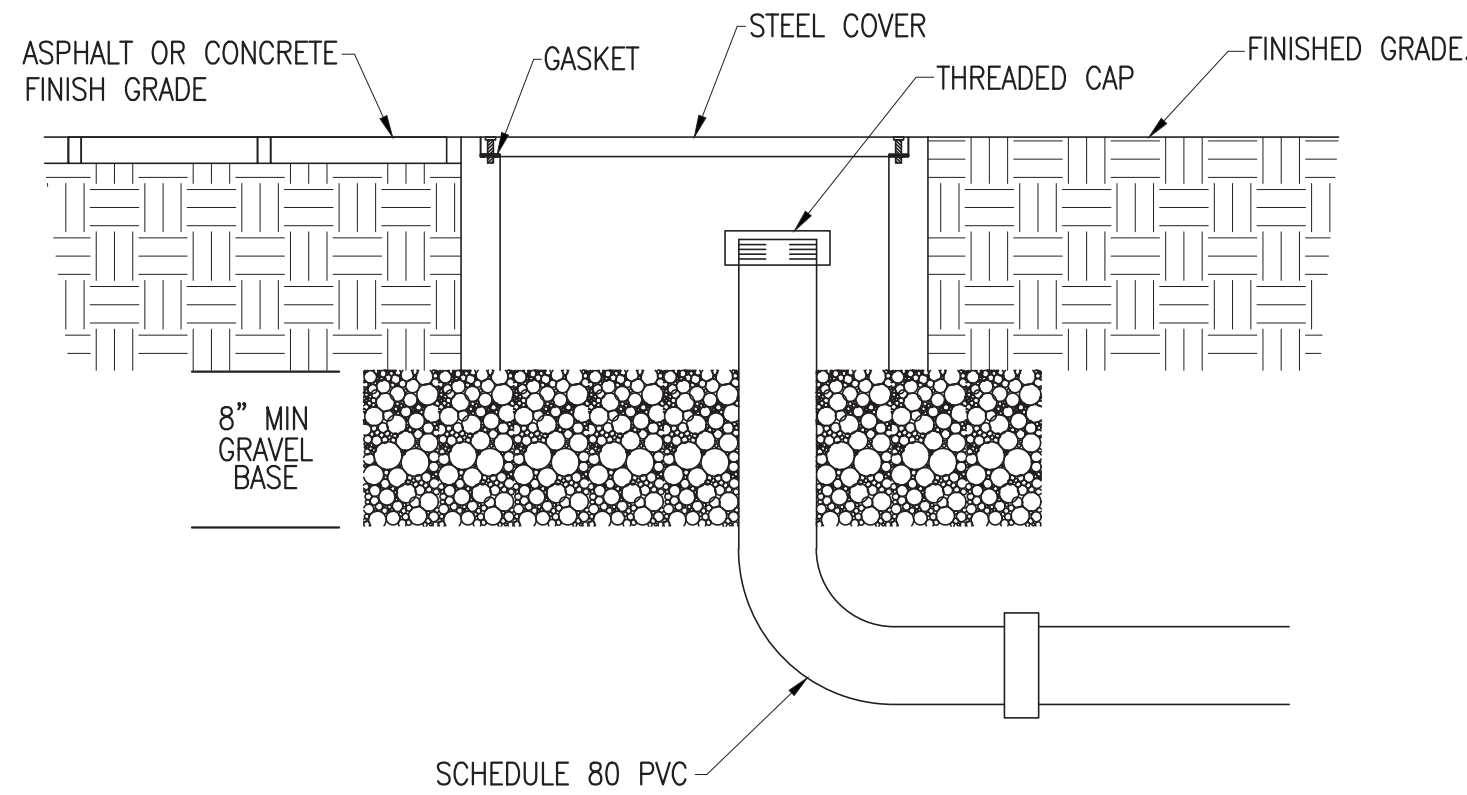
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1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NOT-TO-SCALE



2 TYPICAL POLE BASE DETAIL
SCALE: NOT-TO-SCALE



3 TYPICAL IN-GRADE ELECTRICAL HAND-HOLE
SCALE: NOT-TO-SCALE

KEYED NOTES: (THIS SHEET ONLY)

- EXISTING CPS ENERGY METER TO REMAIN.
- EXISTING EXTERIOR JUNCTION BOX TO REMAIN.
- EXISTING GROUND ROD TO REMAIN.
- EXISTING PANEL 'L1' TO REMAIN FOR NEW FED TO PANEL 'L3.' REFERENCE PANEL SCHEDULES, SHEET E2.01, FOR SIZING AND ADDITIONAL INFORMATION.
- EXISTING PANEL 'L2' TO REMAIN. REFERENCE PANEL SCHEDULES, SHEET E2.01, FOR ADDITIONAL INFORMATION.
- EXISTING TIME CLOCK TO REMAIN.
- EXISTING JUNCTION BOX WITH CONTACTORS TO REMAIN.
- NEW PANEL 'L3'. REFERENCE PANEL SCHEDULE, SHEET E2.01, FOR SIZING AND ADDITIONAL INFORMATION.
- PROVIDE NEW 2-CHANNEL TIME CLOCK FOR LIGHTING CONTROL. PARKING LOT AND PLAYGROUND AREA LIGHTING TO BE CONTROLLED THROUGH CHANNEL 1 AND PHOTOCELL FOR DUSK TO MIDNIGHT 'ON' OPERATION. BASKETBALL COURT LIGHTING TO BE CONTROLLED THROUGH CHANNEL '2' WITH HOURS TO BE SET BY OWNER. TORQ DW200A OR APPROVED EQUAL.
- PROVIDE ENCLOSURE FOR LIGHTING CONTACTORS. PROVIDE ONE NEW 20A 2-POLE CONTACTOR, THREE SINGLE POLE CONTACTORS AND ONE SPARE 20A CONTACTOR FOR FUTURE LIGHTING CONTROL.
- TO LIGHTING CIRCUITS. REFERENCE SITE AND BUILDING PLAN FOR CONTINUATION.
- TO WIFI RECEPTACLE. REFERENCE SITE PLAN FOR CONTINUATION.

ANALYSIS OF PROJECTED ELECTRICAL LOAD
CoSA Dawson Park

2/25/2015

BUILDING AREA: - SF
SERVICE VOLTAGE: 240/120V, 1Ph., 3W

LOAD DESCRIPTION				CONNECTED LOAD, VA	NEC LOAD	
				KVA	KVA	AMPERES
EXISTING LOADS (FROM UTILITY DEMAND):				NOTES		
PRIOR 12 MONTH PEAK DEMAND (JANUARY, 2018)				1	27,778	-
				25 kW @ 0.9 PF		
LOAD DESCRIPTION				DEMAND FACTOR	NOTES	CONNECTED LOAD, KVA
						KVA
GENERAL PURPOSE RECEPTACLES				1.00	2	0.2
EXTERIOR LIGHTING				1.25		2.3
EQUIPMENT				1.00		-
CONNECTED NEW LOADS SUBTOTAL						3
NET SUBTOTAL OF EXISTING, DEMO, AND NEW LOADS						3
LOAD GROWTH ALLOWANCE				15%		0
TOTAL						4
SERVICE ENTRANCE DESIGN (TRANSFORMER/ MAIN PANEL)						75

- NOTES:
- EXISTING DEMAND LOAD DETERMINED IN ACCORDANCE WITH NEC 220.87
 - DIVERSIFIED PER NEC 220.14
 - UNIT LOADS ARE PER NEC TABLE 220.12
 - THE GREATER OF TOTAL HEATING AND COOLING IS USED
 - TEMPERATURE CONTROLLED AND INTERMITTENT USE EQPT, DIVERSIFIED PER NEC 220.56
 - INCLUDES DOMESTIC WATER HEATING EQPT AND ASSOCIATED PUMPS, ETC

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ONE-LINE DIAGRAM
& DETAILS

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SHEET 4 OF 5

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LIGHTING FIXTURE SCHEDULE									
TYPE	LAMPS	MOUNTING	MOUNT HEIGHT	VOLTS	WATTS	DESCRIPTION	MANUFACTURER AND CATALOG NO.		
A	7900 LUMEN 3000K LED	SURFACE	CANOPY	UNV	64	4' ENCLOSED AND GASKETED INDUSTRIAL GARAGE LIGHT FIXTURE WITH FROSTED IMPACT RESISTANT LENS.	H.E. WILLIAMS: 97-4-L79/830-FR-DRV-UNV		
B	3000K LED	SURFACE	CEILING	120	25	13" DIAMETER CEILING MOUNT, VANDAL RESISTANT, DIE-CAST, MARINE GRADE ALUMINUM LED FIXTURE WITH PRISMATIC POLYCARBONATE LENS AND 90 MINUTE BATTERY PACK.	LUMINAIRE LED: APX13-25W-300K-UNV-CC-FL-XX-EMB310		
C	19K LUMEN 3000K LED	KNUCLE	EXISTING	120	150	HIGH OUTPUT LED FLOOD LIGHT WITH DIE-CAST ALUMINUM HOUSING AND KNUCKLE SLIPFITTER OPTION.	GE EVOLVE: EFH1010AA65730NAK1DKBZ		
D	3500 LUMEN 3000K LED	SURFACE	CANOPY	120	38	IP66 RATED OUTDOOR MEDIUM PROJECTOR LED LIGHT FIXTURE	REGGIANI: V.HB88K.HQ		
E	3-32W T8	POLE	14'	UNV	59	TRADITIONAL ACORN LED FIXTURE WITH TYPE V DISTRIBUTION	SENTRY ELECTRIC: SMAL-LEDV29-105A-835-KHT5		
F	8000 LUMEN 3000K LED	WALL	EXISTING	120	64	14' TAPERED SHAFT POLE	SENTRY ELECTRIC: SAL-W-5R4-14		
						LARGE LED WALL PACK	LSI INDUSTRIES: TLWP LED 8L UNV DIM 30 BZA		

NOTES:
1. COORDINATE FIXTURE FINISH WITH ARCHITECT/OWNER PRIOR TO PURCHASE.

EXISTING PANELBOARD 'L1'													
PROJECT :		CoSa Dawson Park		MAIN CIRCUIT BREAKER :		225A		ENCLOSURE :		NEMA 1			
PROJECT # :		0033-18		MAIN LUGS ONLY :				MOUNTING :		RECESSED			
LOCATION :		Front Office		BUSSING :		250-AMP		OCP TYPES :		BOLT-ON			
NOTES :				VOLTAGE :		120/240V, 1-PH, 3-W		PROVIDE :		NEUTRAL BUS			
				INTERRUPTING :		10 KA/IC RMS SYM				GROUND BUS			
CKT	AMPS	POLE	CIRCUIT DESCRIPTION		LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	BATHRM & HALL LGTS				A			BATHRM EXHAUST FAN	20	1	2
3	20	1	OFFICE & LOBBY LGTS				B			WATER HEATER	20	1	4
5	20	2	GYM LGTS (SOUTH ROW)				A			GYM LGTS (N. ROW)	20	2	6
7							B						8
9	20	2	GYM LGTS (MID ROW)				A			KITCHEN RANGE	30	2	10
11							B						12
13	20	1	TRACK LGTS STAGE				A			TRACK LGTS REC AREA	20	1	14
15	20	2	OUTSIDE LGTS S. WALL				B			KITCH COUNT. PLUGS	20	1	16
17							A			REC RM LIGHT & EXT	20	1	18
19	20	1	FIRE ALARM				B			PLUG ON STAGE	20	1	20
21	20	1	EX LGTS GYM & KILN RM LGT				A			EXIT LIGHT IN GYM	20	1	22
23	20	1	MENS RM HAND DRYER				B			EXISTING LOAD	20	1	24
25	40	2	EXISTING LOAD				A			KITCH & STORE RM LGT	20	1	26
27							B			STAGE & DRESS RM PL	20	1	28
29	20	1	WATER FOUNTAIN				A			DRS RM/STG LGTS/CRAFT RM	20	1	30
31	20	1	EXISTING LOAD				B			EXISTING LOAD	20	1	32
33	20	1	EXISTING LOAD				A			COKE MACHINE	20	1	34
35	20	1	EXISTING LOAD				B			EXISTING LOAD	20	1	36
37	20	1	EXISTING LOAD				A			BUSSED SPACE	20	1	38
39							B	-	1,366				40
41	100	2	EXISTING PANEL 'L2'				A	-	1,341	NEW PANEL 'L3'	40	2	42
NOTES :													
		PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS						
PHASE A		0	1,341	0	1,341	1,632	14						
PHASE B		0	1,366	0	1,366	1,662	14						
TOTAL		0	2,707	0	2,707	3,294	14	REVISIONS:					

MaCK Engineers v2.0 - April-15

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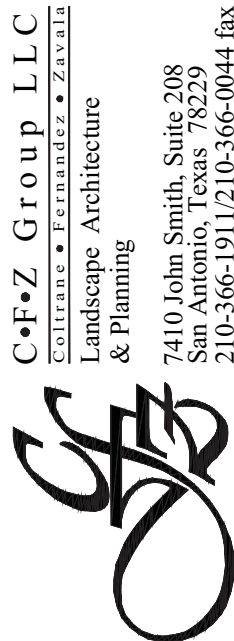
EXISTING PANELBOARD 'L2'													
PROJECT :		CoSa Dawson Park		MAIN CIRCUIT BREAKER :		125A		ENCLOSURE :		NEMA 1			
PROJECT # :		0033-18		MAIN LUGS ONLY :		125A		MOUNTING :		SURFACE			
LOCATION :		Storage Closet		BUSSING :		125-AMP		OCP TYPES :		BOLT-ON			
NOTES :				VOLTAGE :		120/240V, 1-PH, 3-W		PROVIDE :		NEUTRAL BUS			
				INTERRUPTING :		10 KAIC RMS SYM				GROUND BUS			
CKT	AMPS	POLE	CIRCUIT DESCRIPTION		LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	TIME CLOCK BB CT				A			SPARE	20	1	2
3	20	1	SCOREBOARD				B			SPARE	20	1	4
5	20	1	STORAGE LIGHT				A			WATER HEATER	30	1	6
7	20	1	CRAFT RM PLUGS				B			OFFICE PLUGS	20	1	8
9	20	1	RECEPT PLUGS				A			SPARE	20	1	10
11	20	1	WP PLUG SOUTH				B			SPARE	20	1	12
13	20	1	SPARE CIRCUIT				A						14
15	20	1	RECEP PPLUG				B			SPARE 220V	30	2	16
17	20	1	GAME RM PLUGS				A			PHONE PLUG	20	1	18
19	20	1	STORAGE LIGHTS				B			HAND DRYER WOMEN	20	1	20
21							A						22
23	60	2	KILN				B			SPARE 220V KILN RM	60	2	24
NOTES :													
		PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS						
PHASE A		0	0	0	0	0	0						
PHASE B		0	0	0	0	0	0						
TOTAL		0	0	0	0	0	0	REVISIONS:					
MaCk Engineers v2.0 - April-15													

MaCK Engineers v2.0 - April-15

INTERIM
REVIEW ONLY
Document Incomplete; Not
Intended for permit,
bidding or construction.
Engineer: MICHAEL WASHINGTON
P.E. Reg. No.: 111774
Company Name:
MACK ENGINEERS
Texas Registered
Engineering Firm: F-15042
Date: 03-29-19



MEP Design, Planning & Commissioning
10118 Emerald Sun, San Antonio, TX. 78245
(210) 899-9908 | TBPE# F-15042
www.mackengineers.com



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DAWSON PARK
2500 E COMMERCE ST, SAN ANTONIO TX



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

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CHECKED: MLW
DATE: 03-29-19
JOB NO. 17-1131
REVISIONS :

SHEET TITLE

ELECTRICAL
SCHEDULES

SHEET NO.

E2.01

SHEET 5 OF 5

FILE:

DATE:

STRUCTURAL NOTES

1000 COORDINATION

- A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- B. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.
- C. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the details.
- D. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the Structural Drawings shall be referred to the Architect. Differences shall also be clouded on the shop drawings.
- E. All structural elements of the project have been designed by the Engineer to resist the required Code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.
- F. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Structural Contract Documents.
- G. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- H. Periodic site observation by field representatives of Intelligent Engineering Services, LLP (IES) is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

1010 SUBSTITUTIONS

- A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.
- B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be reviewed.

1020 CODES

- A. The General Building Code used as the basis for the structural design is as follows:

City of San Antonio Building Code (2018 International Building Code with City of San Antonio Amendments)

1100 SUBMITTALS

- A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.
- C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.
- D. where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within 2 weeks of receipt.
- E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.
- F. Refer to individual sections for specific submittal requirements.
- G. Contractor shall submit electronically in pdf format. Submittals shall be generated electronically and will be commented upon electronically as to maintain clarity of the image file. Scans of hard copy submittals shall be legible, full size scans. All illegible scans or scans of contractor comments on reduced size prints will be rejected. Contractor will be responsible for providing and distributing Engineer's comments to their subcontractors.

101000 DEFERRED SUBMITTALS

- A. In accordance with the General Building Code, Section 107.3.4.1 the following submittals will not be issued at the time of permit application, and will be "deferred" to a later date. Deferred submittals are required to be submitted to the Building Official. However, these submittals shall be submitted and approved by the Registered Design Professional in Responsible Charge (RDPIRC) prior to submitting to the Building Official. Deferred submittals are design items being delegated to the Contractor which shall be designed and sealed by a Professional Engineer licensed in the State of Texas.
- B. The following structural components shall be treated as deferred submittals:
- Pre-Fabricated Awnings and Canopies
- C. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.
- D. Work associated with Deferred Submittals shall not be performed until the deferred submittal documents have been approved by the Building Official.
- E. Refer to the Contract Documents for additional Deferred Submittal items.

1030 IBC 2018 DESIGN LOADS

- A. Dead Loads include the self-weight of the structural elements.
- | | |
|-----|------|
| 100 | 2000 |
|-----|------|

Notes:

- Floor live loads have not been reduced.

B. Roof Live Loads

Roof Use	Uniform (psf)	Concentrated (lbs)
Awnings and Canopies		
Fabric Construction Supported by a Skeleton Structure	5 psf	300 lbs (Note 1)
- Non-Reducible Load		

Notes:

- Concentrated load applied to skeleton structure.

C. Snow Loads

Ground snow load, P_g	5 psf
-------------------------	-------

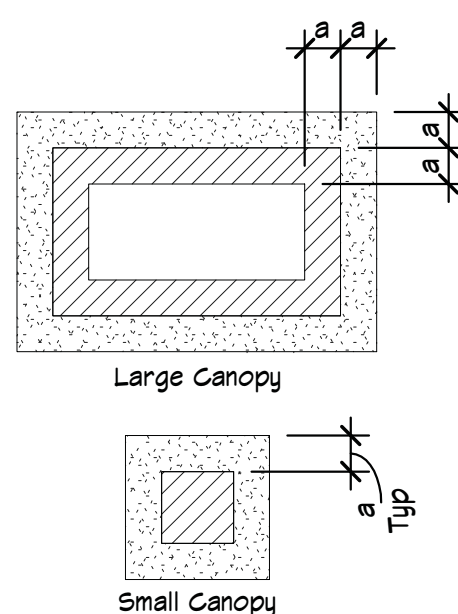
D. Wind Loads

- Wind lateral load on structural frame is based on ASCE 7 using the following:

Basic Design Wind Speed (V_{ult})	110 mph
Allowable Stress Design Wind Speed (V_{asd})	85 mph
Exposure Category	C
Internal Pressure Coefficient, $G_c p_i$	N/A
Risk Category	II

- Design Components and Cladding Wind Pressures:

Surface	(psf)	Zone	Effective Wind Area (A_e)
Roof	+20.3 -22.1	1	All conditions
	+31.4 -33.2	2	less than 36
	+20.3 -22.1	2	greater than 36
	+40.6 -66.4	3	less than 9
	+31.4 -33.2	3	9 to 36
	+20.3 -22.1	3	greater than 36



- Pressure for Tributary Areas in between the listed values may be linearly interpolated.
- Negative value signifies pressure acting away from the surface (suction).
- Edge and Corner zone distances shall be determined in accordance with referenced standard. $a = 9'-0"$
- Per code defined ASD load combinations, nominal components and cladding wind pressures shall be taken as 60% of the listed "Ultimate Components and Cladding Wind Pressures"
- Pressures are for gross uplift conditions.

E. Seismic Loads

- The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

Seismic Importance Factor, I_e	1.0
Risk Category	II
Mapped Spectral Response Accelerations	
S_s (g)	0.049
S_1 (g)	0.022
Site Class	D
Design Spectral Response Accelerations	
S_{DS} (g)	0.053
S_{D1} (g)	0.035
Seismic Design Category	A
Basic Seismic-Force-Resisting system	Steel Ordinary Cantilevered Columns
Design Base Shear, V	N/A
Seismic Response Coefficient(s), C_s	N/A
Response Modification Factor(s), R	1.25
Analysis Procedure Used	ASCE 7-16 1.4.2

F. Rain Loads

Rain Intensity, i	
60-minute duration/100 year return period	4.25 inches
15-minute duration/100 year return period	2.57 inches

G. Load Combinations

- Strength Design
 - 1.4D
 - 1.2D + 1.6L + 0.5(Lr or S or R)
 - 1.2D + 1.6(Lr or S or R) + 1.0(L or 0.5W)
 - 1.2D + 1.0W + 1.0L + 0.5(Lr or S or R)
 - 1.2D + 1.0E + 1.0L + 0.7S
 - 0.9D + 1.0(W or E)
- Allowable Stress Design
 - D
 - D + L
 - D + (Lr or S or R)
 - D + 0.75L + 0.75(Lr or S or R)
 - D + 0.6W or 0.7E
 - D + 0.75(0.6W) + 0.75L + 0.75(Lr or S or R)
 - D + 0.75(0.7E) + 0.75L + 0.75S
 - 0.6D + 0.6(W or 0.7E)

3000 CAST-IN-PLACE CONCRETE

- A. Structural Concrete Code: Building Code Requirements for Structural Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.
- B. Classes of Concrete: All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

- Concrete Mix Schedule:

Conc Class	Strength psi	Agg Type	Max Agg Size	Slump Inches	Max w/c	Use	Notes
C	3000	NAT	3/4"	5-7	0.55	Lightpole Base	3-6% Air Content

- NAT" refers to normal concrete having an dry unit weight of approximately 145 pcf (ASTM C33 aggregate)
- Where the w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
- Strength" is required compressive cylinder strength at an age of 28 days.
- "Maximum aggregate size" is defined as first sieve with greater than 15 cumulative percent retained.

- G. Provide 4 1/2 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

- D. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. Vertical construction joints are prohibited.

- E. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, and the following:

- Conduits and pipes running within a slab, beam, or wall shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam and shall be located within the middle third of that thickness.
- Conduits, pipes, and sleeves passing horizontally through a beam shall not be larger in outside dimension than 1/3 the overall width of the beam or 3 inches (whichever is less). The sleeve shall be made of hot dip galvanized schedule 40 steel.
- Conduits, pipes, and sleeves passing vertically through a beam shall utilize a sleeve not larger in outside dimension than 1/3 the overall width of the beam or 3 inches (whichever is less). The sleeve shall be made of hot dip galvanized schedule 40 steel.
- Conduits, pipes and sleeves shall not be spaced closer than 3 diameters or widths on center.

- F. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck for information, including slump; and shall be sampled at the point of placement for acceptance of slump and air content.

- G. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2.3. Each proposed mix design shall be accompanied by a record of past performance or by three laboratory trial mixtures with confirmation tests

3200 CONCRETE REINFORCING

- A. Concrete reinforcement for the project shall conform to the following:

- All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.

- B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

- C. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

- D. Heat shall not be used in the fabrication or installation of reinforcement.

- E. Reinforcing steel clear cover shall be as follows:

- Drilled piers/footings 3"

- F. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

3160 PRE-FABRICATED AWNINGS AND CANOPIES

- A. All structural steel used for Pre-Engineered Building Components shall be designed, fabricated, and erected in conformance with the latest standards of the AISI. The design and fabrication of cold-formed steel members shall comply with the AISI, latest edition.

- B. The design for all Pre-Fabricated Awning and Canopy members and components (including anchor bolt sizes, lengths and embedment) shall be the responsibility of the Pre-Fabricated Awning and Canopy manufacturer. The design shall be carried out under the direction of a Professional Engineer licensed in the State of Texas.

- C. The design of all Pre-Fabricated Awning and Canopy Components shall be based on the loads indicated in the "Design Loads" section of the Structural Notes. Deflections of the Pre-Engineered Building Structure under loading shall not exceed the following:

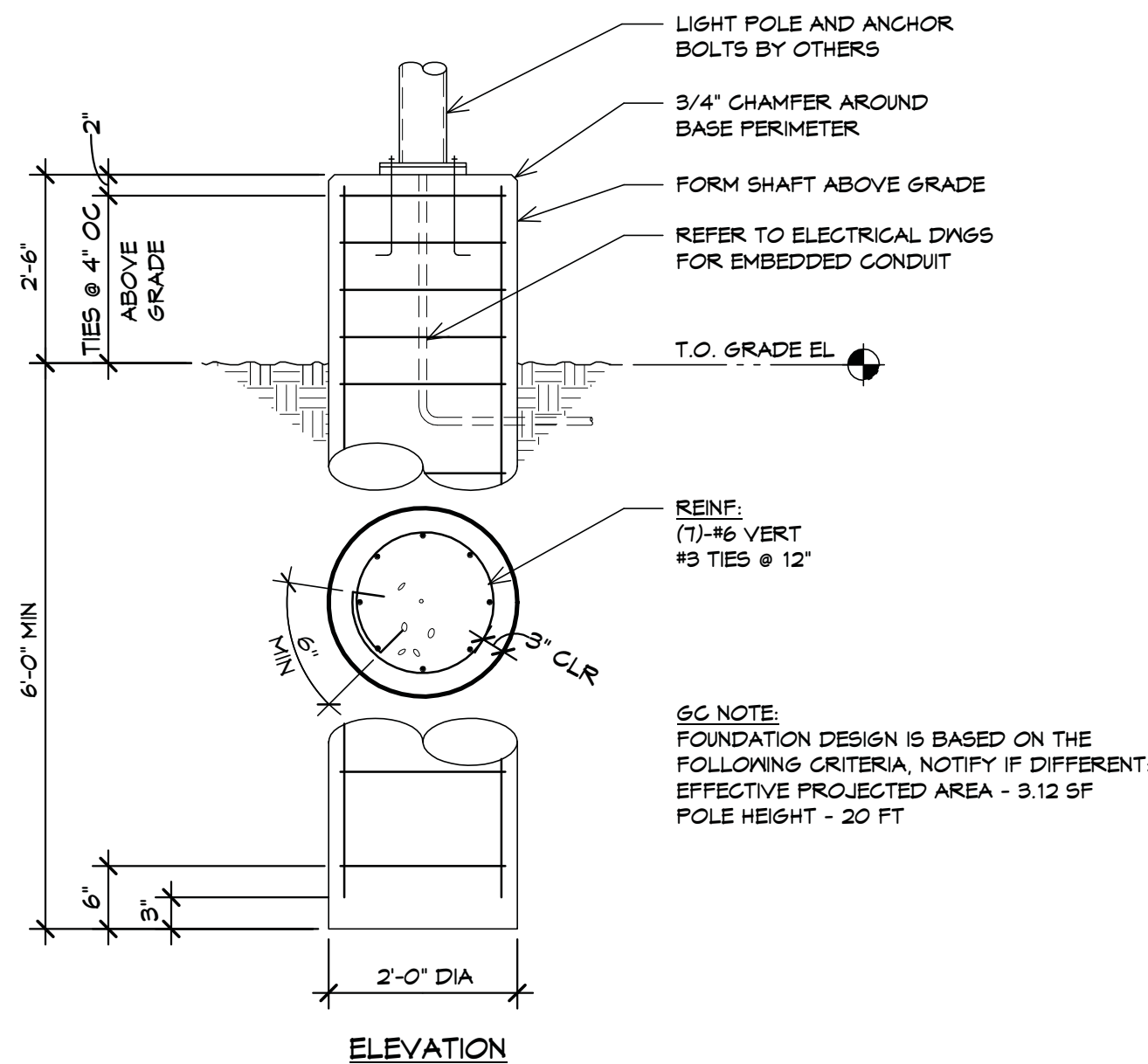
Rigid Frames and Columns - Drift	H/240 Lateral
Rigid Frames and Roof Purlins	L/240 Vertical

*where "L" is defined as a member's length between supports and "H" is defined as a column's height measured from the base to the top of the column

- D. All awning and canopy components shall be compatible with the Contract Documents. Any requests for modifications shall be submitted to the Architect during the bidding process.

- E. Field welded connections for cold-formed steel members shall not be permitted without specific written approval of the Architect.

- F. Shop drawings shall be prepared for all structural items and submitted for record only. Structural Drawings shall not be reproduced and used as shop drawings. Any items deviating from the Contract Documents or from previously submitted shop drawings shall be so noted. Shop drawings shall be sealed and signed by a Professional Engineer licensed in the State of Texas.



1 TYPICAL LIGHTPOLE FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
10001 REINION PLACE, SUITE 200 SAN ANTONIO, TEXAS 78216
210.349.9088 ie-services.com
IES JOB NO: 1192570 TBP FIRM F-432



C-F-Z GROUP LLC
CITIZENS - COMMUNITIES - CREATIVITY
Landscape Architecture & Planning
7410 John Smith Suite 208
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax

INTERIM REVIEW DOCUMENTS
NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION PURPOSES
MATTHEW FOX HOMER
TEXAS REGISTRATION NO: 120615
DATE: 03/28/19

PARK IMPROVEMENTS
DAWSON PARK

2500 E Commerce Street, San Antonio, Texas 78203

DRAWN: IES-STAFF
CHECKED: MFH
DATE: 03/28/19
JOB NO: 17-XXXX
REVISIONS:

SHEET TITLE
STRUCTURAL NOTES AND DETAILS

SHEET NO.
S0.01
SHEET ____ OF ____

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SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Chapter 17 of the 2018 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all required tests and inspections listed in the following tables. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.
2. Where structural members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

REQUIRED SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)				
SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
1. Inspect reinforcement and verify placement	--	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. Inspect anchors cast in concrete	--	X	ACI 318: 17.8.2	--
3. Verifying use of required design mix	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
4. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	--	ASTM C112 ASTM C31 ACI 318: 26.5, 26.12	1908.10
5. Inspect concrete placement for proper application techniques	X	--	ACI 318: 26.5	--
6. Verify maintenance of specified curing temperature and techniques	--	X	ACI 318: 26.5.3-26.5.5	1908.9
7. Verify in-situ concrete strength prior to removal of shores and forms from beams and structural slabs	--	X	ACI 318: 26.10.2	--
8. Inspect formwork for shape, location and dimensions of the concrete members being formed	--	X	ACI 318: 26.10.1(b)	--

REQUIRED SPECIAL INSPECTIONS OF SOILS (IBC TABLE 1705.6)		
SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY	
	CONTINUOUS	PERIODIC
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	--	X
2. Verify excavations are extended to proper depth and have reached proper material	--	X

REQUIRED SPECIAL INSPECTIONS FOR WELDING OF STRUCTURAL STEEL ¹ (AISC 360-16 Table N5.4)				
SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
1. Inspection tasks prior to welding:				
a. Welder qualification records and continuity records	--	X	AISC 360-16 N5.4-1: AWS D1.1	1705.2.1
b. Welding procedure specifications (WPSs) available	X	--		
c. Manufacturer certifications for welding consumables available	X	--		
d. Material identification (type/grade) ²	--	X		
e. Welder identification system ²	--	X		
f. Fit-up of fillet welds ² 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location)	--	X		
2. Inspection tasks during welding:				
a. Control and handling of welding consumables ² 1) Packaging 2) Exposure control	--	X	AISC 360-16 N5.4-2: AWS D1.1	1705.2.1
b. No welding over cracked tack welds ²	--	X		
c. Environmental conditions ² 1) Wind speed within limits 2) Precipitation and temperature	--	X		
d. WPS followed ² 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min/max) 7) Proper position (F, V, H, OH)	--	X		
e. Welding techniques ² 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements	--	X		
3. Inspection tasks after welding:				
a. Welds cleaned	--	X	AISC 360-16 N5.4-2: AWS D1.1	1705.2.1
b. Size, length and location of welds	X	--		
c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X	--		
d. Arc strikes	X	--		
e. Backing removed and weld tabs removed (if required)	X	--		
f. Repair activities	X	--		
g. Document acceptance or rejection of welded joint or member	X	--		
h. No prohibited welds have been added without the approval of the Engineer of Record	--	X		

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 assigned to the Quality Control Inspector (QCI).
2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

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10001 REUNION PLACE, SUITE 200 SAN ANTONIO, TEXAS 78216
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CITY OF SAN ANTONIO
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& Planning
2410 John Smith Suite 208
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SHEET NO.
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SHEET ____ OF ____