

ORANGE COUNTY CAPITAL PROJECT DIVISION
 INTERNAL OPERATIONS CENTER II
 400 E. SOUTH STREET, 5th FLOOR
 ORLANDO, FL 32801



ORANGE COUNTY MAYOR
 HONORABLE TERESA JACOBS

COMMISSIONER DISTRICT 1
 BETSY VANDERLEY

COMMISSIONER DISTRICT 2
 BRYAN NELSON

COMMISSIONER DISTRICT 3
 PETE CLARKE

COMMISSIONER DISTRICT 4
 JENNIFER THOMPSON

COMMISSIONER DISTRICT 5
 EMILY BONILLA

COMMISSIONER DISTRICT 6
 VICTORIA P. SIPLIN

FLEET HEAVY EQUIPMENT MANAGEMENT
 4400 S. VINELAND ROAD
 ORLANDO, FL 32811

DRAWING INDEX

ARCHITECTURAL

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BID ADD ALTERNATE

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A03.01A	FRONT WEST ELEVATION ANODIZED ALUMINUM

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STRUCTURAL

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ORANGE COUNTY PROJECT MANAGER: ROAN WATERBURY

ARCHITECTURAL DESIGN COLLABORATIVE



ARCHITECT
 945 N. PENNSYLVANIA AVENUE
 WINTER PARK, FLORIDA 32789
 (407) 629-1188
 CONTACT: KAREN ANDERSON

SGM ENGINEERING



MEP ENGINEER
 935 LAKE BALDWIN LANE
 ORLANDO, FL 32814
 (407)767-5188
 CONTACT: JOHN J BONOTTO

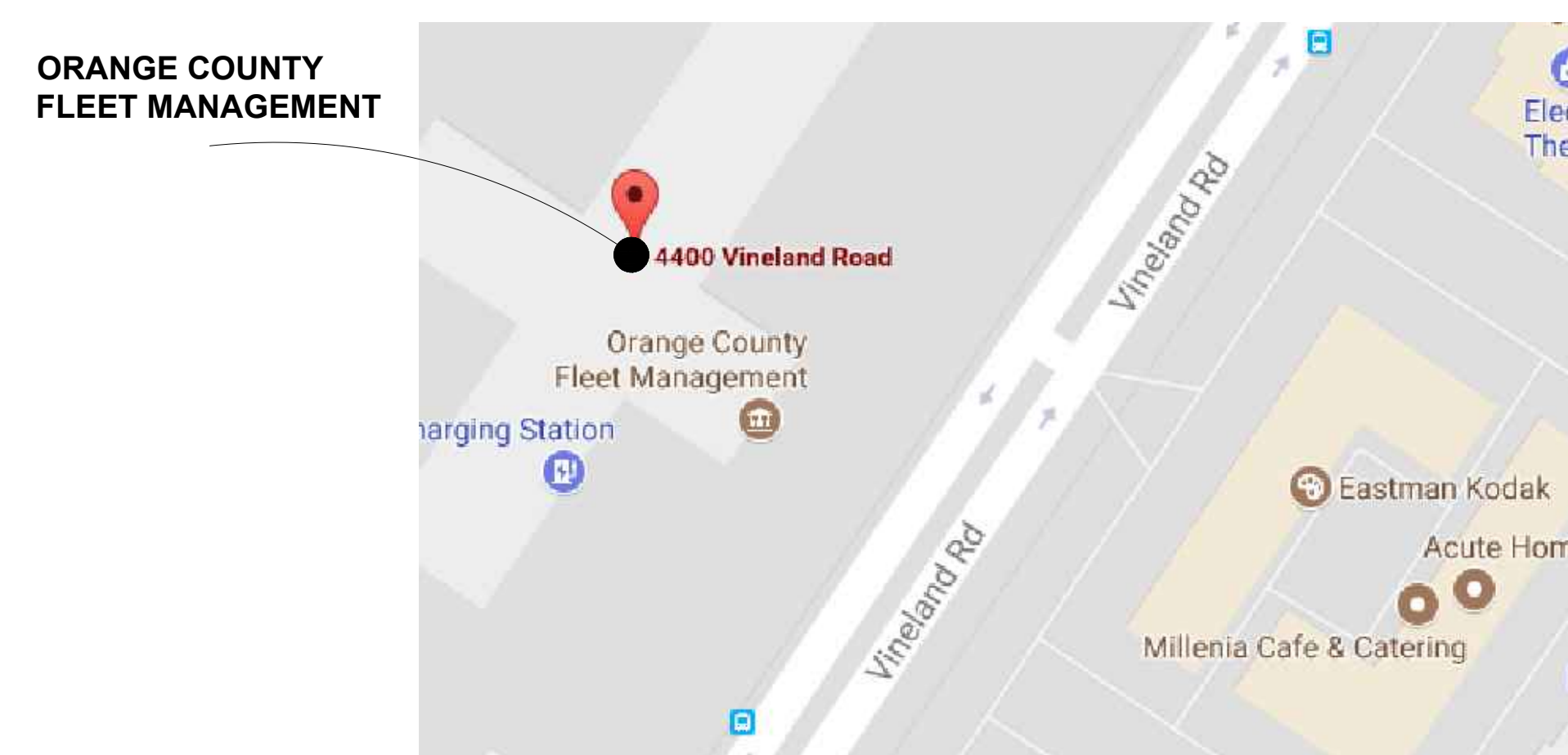
BASE CONSULTANTS



STRUCTURAL ENGINEER
 1214 EAST CONCORD STREET
 ORLANDO, FL 32803
 (407)337-7227
 CONTACT: LAURA BARBERO-BUFFA



VICINITY MAP
 N.T.S.



LOCATION MAP
 N.T.S.

ARCHITECTURAL ABBREVIATIONS

A	ACCES ACCESSORY ACOUS ACUSTIC(AL) AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AL ALUMINUM ALT ALTERNATE ANNUNC ANNUNCIATOR ANOD ANODIZED APPL APPLIANCE ARCH ARCHITECT(URAL) AUTO AUTOMATIC AVG AVERAGE & AND	G	GA GAUGE GFRC GLASS FIBER REINFORCED CONCRETE GFRG GLASS FIBER REINFORCED GYPSUM GFRP GLASS FIBER REINFORCED PLASTER GL GLASS GR GRAD(E)(NG) GYP GYPSUM	R	RDR READER RECES RECESSED RECPT RECEPTACLE REF REFER(ENCE) REFL REFLECTED REFR REFRIGERATOR REQD REQUIRED RESIS RESIST(ANT)(IVE) REINF REINFORCE(D)(NG)(MENT) RESIL RESILIENT RFG ROOFING RM ROOM
B	BLDG BUILDING BOLLD BOLLARD BD BOARD BLKG BLOCKING BRDLM BROADLOOM BU BUILT UP	H	HD HEAD HDWD HARDWOOD HDWE HARDWARE HM HOLLOW METAL HORIZ HORIZONTAL HVAC HEATING, VENTILATING, AND AIR CONDITIONING	S	SCR SCRIBE SECUR SECURITY SF SQUARE FEET SGL SINGLE SHORG SHORING SIM SIMILAR SST STAINLESS STEEL STD STANDARD STL STEEL STRFR STOREFRONT STRUCT STRUCTURAL SURF SURFACE SUSP SUSPENDED SYS SYSTEM(S)
C	CAB CABINET CPT CARPET CEM CEMENT(ITIOUS) CER CERAMIC CLG CEILING COATG COATING COILG COILING CONC CONCRETE CONSTR CONSTRUCTION CONT CONTINUOUS(ACTION) CONTR CONTRACT(OR) COV COVER CMU CONCRETE MASONRY UNIT	I	INFO INFORMATION INSTRUM INSTRUMENT(ACTION) INSUL INSULATION INTLK INTERLOCK(ING) INT INTERIOR INFILTR INFILTRATION	T	THK THICK TLT TOILET TRAF TRAFFIC TRANS TRANSPARENT TRTD TREATED T&G TONGUE AND GROOVE TYP TYPICAL
D	DBL DOUBLE DEPT DEPARTMENT DES DESIGN(ED) DET DETAIL DF DRINKING FOUNTAIN DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DISP DISPENSER DIV DIVISION DN DOWN \$ DOLLAR (US CURRENCY) DR DOOR DSCON DISCONNECT DWR DRAWER	J	JAN JANITOR	U	UNDRLAY UNDERLAYMENT UTIL UTILITY UNO UNLESS NOTED OTHERWISE
E	ELAST ELASTOMERIC ELEC ELECTRICAL EMBED EMBEDD(ED)(NG) ENGR ENGINEER(ED) ENTR ENTRANCE EQ EQUAL EQUIP EQUIPMENT EXIST EXISTING EXP JT EXPANSION JOINT EXPS EXPOSE(D) EXT EXTERIOR	L	LAV LAVATORY LB POUND £ BRITISH POUND (CURRENCY) LT LIGHT LVLG LEVELING LVR LOUVER	V	VEH VEHICLE VERT VERTICAL VIF VERIFY IN FIELD
F	FAB FABRICATION FD FLOOR DRAIN FE FIRE EXTINGUISHER FE&C FIRE EXTINGUISHER AND CABINET FHC FIRE HOSE CABINET FIN FINISH FLDG FOLDING FPLC FIREPLACE FR FIRE RAT(ING)(ED) FRMG FRAMING FXD FIXED FXTR FIXTURE FLR FLOOR(ING) FURN FURNITURE FUT FUTURE FWC FABRIC WALL COVERING FUT FUTURE	M	MAX MAXIMUM MFD MANUFACTURED MFR MANUFACTURER MECH MECHANICAL MET METAL MEMB MEMBRANE MEZZ MEZZANINE MIN MINIMUM MISC MISCELLANEOUS MLWK MILLWORK MOIST MOISTURE MOT MOTOR(ZED) MTD MOUNTED	W	W/ WITH WC WATER CLOSET WD WOOD WDW WINDOW W/O WITHOUT WT WEIGHT WTRPRF WATERPROOFING
		N	NIC NOT IN CONTRACT NO NUMBER NTS NOT TO SCALE		
		O	ORNA ORNAMENTAL OVFL OVERFLOW OVHD OVERHEAD OPNG OPENING(S) OPR OPERABLE		
		P	PTN PARTITION PEDTR PEDESTRIAN PBD PARTICLE BOARD PJM PROJECT MANAGER PNL PANEL POLYST POLYSTYRENE PORT PORTABLE PREFIN PREFINISHED PREFAB PREFABRICATED PLAM PLASTIC LAMINATE PLAS PLASTER PLSTC PLASTIC PLYWD PLYWOOD PRTECN PROTECTION		

SCOPE

OVERALL SCOPE OF WORK

THE GENERAL CONTRACTOR SHALL INSTALL A BUILDING CANOPY ON THE WESTSIDE OF THE BUILDING AS SHOWN IN THE KEY PLAN OF EXISTING FLOOR PLAN.

1. THE PROPOSED SCOPE INVOLVES ELECTRICAL AND STRUCTURAL CONSULTANTS.
2. THE PROPOSED CANOPY WILL PROVIDE SURFACE MOUNTED LED CANOPY LIGHT FIXTURES.
3. PRE-ENGINEERED CANOPIES TO MEET FLORIDA PRODUCT APPROVAL. PRE-ENGINEERED MANUFACTURER TO PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE FLORIDA. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW.

SCOPE OF WORK NOTES:

1. WORK THAT IS NOT STATED HEREIN NOR SHOWN IN THESE PLANS IS NOT PART OF THE SCOPE OF WORK FOR THIS PROJECT.
2. ADDITIONAL WORK REQUIRED THAT WOULD ALTER THE PRESENTED SCOPE OF WORK SHALL BE SUBJECT TO A REVISION OF THESE DOCUMENTS AND TO BE REVIEWED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

NOTE TO CONTRACTOR

THE BUILDING WILL REMAIN IN OPERATION DURING CONSTRUCTION.

BUILDING OPERATION HOURS :
MONDAY THRU FRIDAY
7:00 AM - 3:30 PM
BAYS NEED TO REMAIN IN USE DURING THESE HOURS BUT, WORK MAY CONTINUE.
THE GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION WITH FLEET.

PROJECT INFORMATION

PROJECT ADDRESS: 4400 S. VINELAND ROAD ORLANDO, FL 32811
PROJECT NAME: ORANGE COUNTY CAPITAL PROJECTS DIVISION - FLEET MANAGEMENT FACILITIES. HEAVY EQUIPMENT CANOPY.
PROJECT TYPE: BUILDING CANOPY ADDITION
LEVEL OF ALTERATION: 2
NOTE: FIRE SPRINKLERS PROTECTION NOT REQUIRED UNDER NEW CANOPIES. NO COMBUSTIBLE MATERIALS TO BE STORED UNDER CANOPIES. SEE LETTER FROM OWNWER ATTACHED TO THIS PERMIT SET.

APPLICABLE CODES

AUTHORITY HAVING JURISDICTION: CYTY OF ORLANDO BUILDING DEPARTMENT
BUILDING CODE: FLORIDA BUILDING CODE (5TH EDITION) 2014 AND EXISTING BUILDING CODE 2014
LIFE SAFETY CODE: NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101 LIFE SAFETY CODE, 2012 EDITION WITH FLORIDA AMENDMENTS
STATE OF FLORIDA FIRE SAFETY STANDARDS: FLORIDA FIRE PROTECTION CODE (5TH EDITION)
ENERGY CODE: ENERGY CONSERVATION CODE 2014
ACCESSIBILITY CODE: FLORIDA BUILDING CODE (5TH EDITION) 2014, CHAPTER 11 - ACCESSIBILITY
FIRE CODE: NFPA 1 - UNIFORM FIRE CODE 2012 WITH FLORIDA AMENDMENT
MECHANICAL CODE: FLORIDA BUILDING CODE 5TH ED. MECHANICAL -2014
ELECTRICAL CODE: NFPA 70 - NATIONAL ELECTRICAL CODE - 2011
PLUMBING CODE: FLORIDA BUILDING CODE 5TH ED. PLUMBING - 2014
GAS CODE: FUEL GAS CODE 2014
STRUCTURAL CODE: FLORIDA BUILDING CODE 5TH ED. STRUCTURAL -2014

LIFE SAFETY SYSTEMS

(PER FBC AND NFPA)

AUTOMATIC SPRINKLER SYSTEM : PROVIDED PER NFPA 13
ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS : PROVIDED - REFER TO FIRE PROTECTION DWGS
STANDPIPE SYSTEM : PROVIDED PER NFPA 14 - CLASS 1
PORTABLE FIRE EXTINGUISHERS : PROVIDED PER NFPA 10
FIRE ALARM SYSTEM : PROVIDED PER NFPA 72
ADDITIONAL GUIDELINES: ASME A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2013

OCCUPANCY CLASSIFICATION PER NFPA CHAPTER 6

ASSEMBLY <300 >300 TO <=1000 >1000	AMBULATORY HEALTHCARE DETENTION AND CORRECTIONAL	RESIDENTIAL ONE & TWO FAMILY DWELLINGS LODGING OR ROOMING HOUSES HOTELS & DORMITORIES APARTMENT BUILDINGS	MULTIPLE OCCUPANCIES MIXED OCCUPANCIES SEPARATED OCCUPANCIES INCIDENTAL USES
EDUCATIONAL DAYCARE >12 CLIENTS HOMES	MERCANTILE MERCANTILE MALL BULK RETAIL	RESIDENTIAL BOARD AND CARE SMALL LARGE	VERTICAL OPENINGS COMMUNICATING SPACE ATRIUM CONVENIENCE OPENING
BUSINESS HEALTHCARE	INDUSTRIAL GENERAL PURPOSE SPECIAL-PURPOSE HIGH HAZARD	STORAGE LOW & ORDINARY HAZARD HIGH HAZARD	

FBC USE GROUP(S) AND CONSTRUCTION TYPE(S)

USE GROUPS AND CONSTRUCTION TYPES PER IBC CHAPTERS 3, 4, 5, AND 6

BASIC OCCUPANCY GROUP(S): (PER IBC CHAPTER 3)

ASSEMBLY GROUP A-1 GROUP A-2 GROUP A-3 GROUP A-4 GROUP A-5 BUSINESS GROUP B	EDUCATIONAL GROUP E FACTORY AND INDUSTRIAL GROUP F-1 GROUP F-2	HIGH HAZARD GROUP H-1 GROUP H-2 GROUP H-3 GROUP H-4 GROUP H-5	INSTITUTIONAL GROUP I-1 GROUP I-2 GROUP I-3 GROUP I-4	MERCANTIL GROUP M RESIDENTIAL GROUP R-1 GROUP R-2 GROUP R-3 GROUP R-4	STORAGE GROUP S-1 GROUP S-2 UTILITY AND MISC GROUP U
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MIXED USE AND OCCUPANCY: (PER IBC SECTION 508 & 509)

ACCESSORY OCCUPANCIES (IBC 508.2)
(ACCESSORY OCCUPANCIES <10% OF STORY)
INCIDENTAL USES (IBC SECTION 509)

NON SEPARATED OCCUPANCIES (IBC 508.3)
SEPARATED OCCUPANCIES* (IBC 508.4)

*REFER FIRE AND LIFE SAFETY PLANS FOR SEPARATION REQUIREMENTS

TYPE(S) OF CONSTRUCTION:
(PER IBC CHAPTER 6)

TYPE I	A	B
TYPE II	A	B
TYPE III	A	B
TYPE IV	HT	
TYPE V	A	B

SPECIAL DETAILED REQUIREMENTS
HIGH RISE BUILDING (PER IBC SECTION 403)
ATRIUM (PER IBC SECTION 404) - CONTROL AREAS
OPEN PARKING GARAGE (PER IBC SECTION 406.5)
GROUP I-2 (PER IBC SECTION 407)
- SMOKE COMPARTMENTS
- REFUGE AREA

HAZARDOUS MATERIALS (PER IBC SECTION 414)
MEZANISNE (PER IBC SECTION 505)
EQUIPMENT PLATFORM (PER IBC SECTION 505)

GRAPHIC LEGEND

PROJECT CODE SUMMARY SYMBOLS

ITEMS NOT SELECTED
ITEMS SELECTED

ADC

ARCHITECTURAL DESIGN COLLABORATIVE

945 N. PENNSYLVANIA AVENUE
WINTER PARK, FLORIDA 32789
OFFICE: (407) 629-1188
FAX: (407) 388-1220
WWW.ADCINTERNATIONAL.NET

STATE OF FLORIDA
ALBERT J. COOPER III, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

Project Documents for:



Project:
FLEET CANOPY
4400 S. VINELAND ROAD
ORLANDO, FL. 32811

Issue	Date & Issue Description	Drawn By	Checked By
	07.25.17	60% CD SET	MF KA/MF
	08.25.17	PERMIT/ BID SET	MF KA/MF

ARCHITECTURE • INTERIOR DESIGN • SPACE PLANNING

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

Project Number 17007	Issue Date 08/25/2017
Drawn By MF	Project Status PERMIT/ BID SET
Checked By KA/MF	Scale NTS

File Name

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A00.00 PROJECT INFORMATION.dwg

Consultant • Seal/Signature

10/03/17

Sheet Title:

PROJECT INFORMATION

A00.00



OVERVIEW AT EXISTING BUILDING CANOPY 1
SCALE: N.T.S.



BUILDING EXISTING CANOPY 2
SCALE: N.T.S.



BUILDING INTERIOR BAY 3
SCALE: N.T.S.



EXITING CANOPY WITH SIGNAGE 4
SCALE: N.T.S.



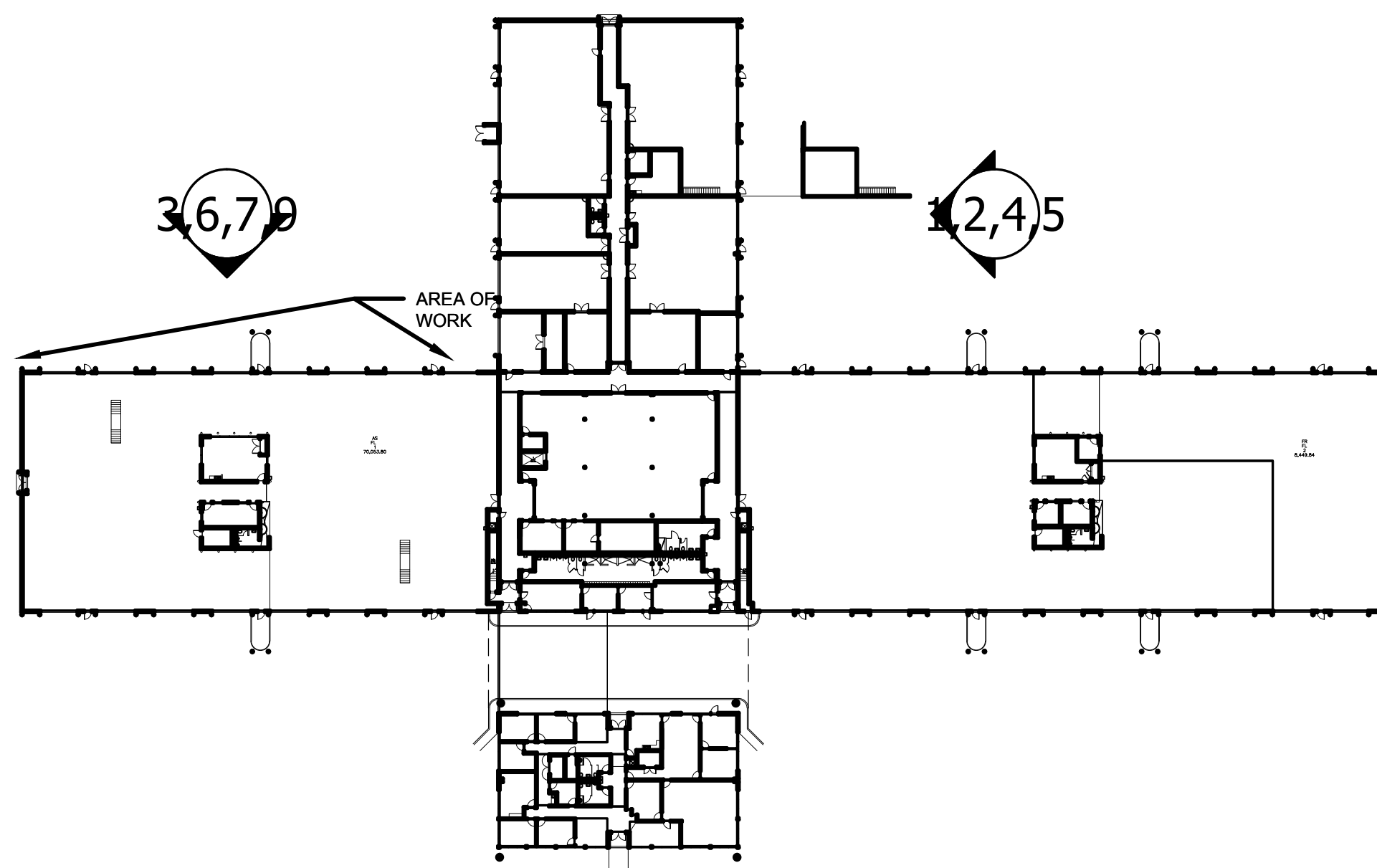
CANOPY GUTTER & DOWNSPOUTS 5
SCALE: N.T.S.



BLDG. GUTTER & DOWNSPOUTS 6
SCALE: N.T.S.



AREA OF WORK EXISTING CONDITION 7
SCALE: N.T.S.



KEY PLAN - EXISTING FLOOR PLAN 8
SCALE: N.T.S.



CAMERA TO BE RELOCATED 9
SCALE: N.T.S.

SHEET NOTES

- PICTURES:
1. OVERVIEW OF EXISTING BUILDING WITH CANOPY. NEW CANOPY TO MATCH EXISTING.
 2. EXISTING BUILDING CANOPY. NEW CANOPY TO MATCH EXISTING. REFER HERE FOR BAY NUMBER SIGNAGE RELOCATION.
 3. EXISTING BUILDING INTERIOR BAYS.
 4. EXISTING BUILDING CANOPY WITH BAY NUMBER SIGNAGE IN FRONT OF CANOPY. REFER HERE FOR SIGNAGE RELOCATION.
 5. EXISTING BUILDING CANOPY SHOWING GUTTER & DOWNSPOUTS TIED TO EXISTING BUILDING DOWNSPOUTS.
 6. AREA OF WORK SHOWING EXISTING CONDITION OF BUILDING GUTTER & DOWNSPOUTS.
 7. OVERVIEW AREA OF WORK EXISTING EXTERIOR CONDITION.
 8. KEY PLAN AND LOCATION OF VIEWS.
 9. AREA OF WORK SHOWING EXISTING CAMERA TO BE RELOCATED. COORDINATE WITH FLEET.



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STATE OF FLORIDA
ALBERT J. COOPER III, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

Project Documents for:



Project:
FLEET CANOPY
4400 S. VINELAND ROAD
ORLANDO, FL. 32811

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08.25.17	PERMIT/BID SET	MF	KA/MF

• SPACE PLANNING

• INTERIOR DESIGN

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

ARCHITECTURE

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
MF	PERMIT/BID SET
Checked By	Scale
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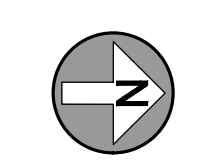
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10/03/17

Sheet Title:
EXISTING CONDITIONS

A00.01



Project Documents for:



Project:
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4400 S. VINELAND ROAD
ORLANDO, FL. 32811

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	07.25.17	60% CD SET	MF KA/MF
	08.25.17	PERMIT/ BID SET	MF KA/MF
	12.06.17	ADDENDA 1	KA

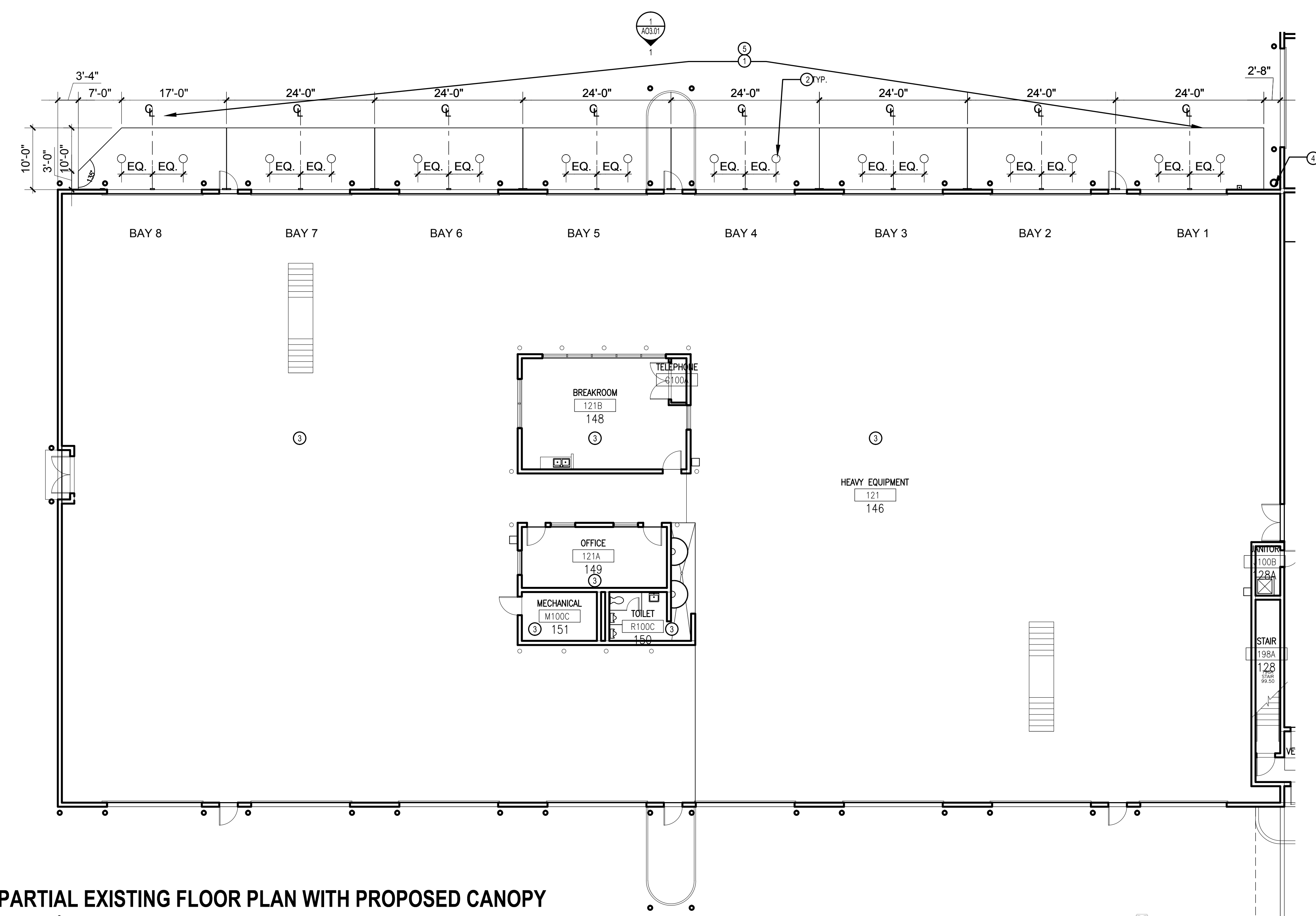
Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
MF	PERMIT/ BID SET
Checked By	Scale
KA/MF	3/32" = 1'-0"

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A02.01 CONSTRUCTION PLAN.dwg

Consultant • Seal/Signature

Sheet Title:
CONSTRUCTION PLAN



1. PARTIAL EXISTING FLOOR PLAN WITH PROPOSED CANOPY
SCALE: 3/32" = 1'-0"

SHEET NOTES

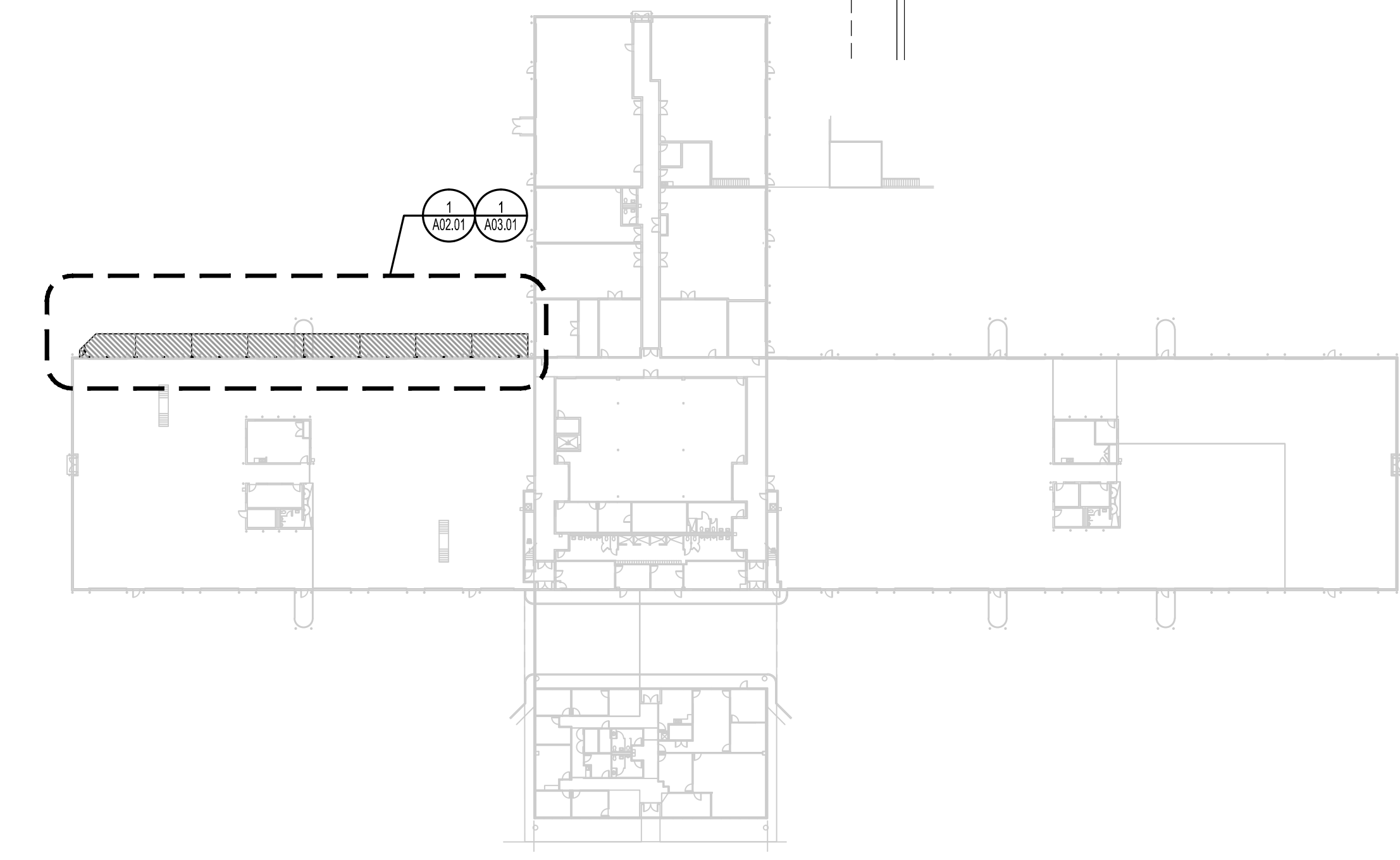
- REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL DISCIPLINES TO MEET CONSTRUCTION DEADLINES. COORDINATE ACCESS TO BUILDING AS NEEDED WITH FACILITIES AND BUILDING MANAGER.
- PRE-ENGINEERED CANOPIES TO MEET FLORIDA PRODUCT APPROVALS. PRE-ENGINEERED MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW.

KEY NOTES

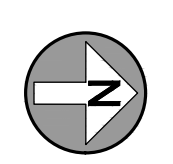
- PROPOSED PRE-FABRICATED METAL CANOPY WITH PAINTED POWDER COAT FINISH TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- PROPOSED SURFACE MOUNTED LED CANOPY LIGHT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- NOT IN SCOPE OF WORK.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH FLEET FOR RELOCATION OF EXISTING SECURITY CAMERA.
- FIRE SPRINKLER PROTECTION NOT REQUIRED UNDER NEW CANOPIES. NO COMBUSTIBLE MATERIALS TO BE STORED UNDER CANOPIES. SEE LETTER FROM OWNER STATING NO COMBUSTIBLE MATERIALS WILL BE STORED ATTACHED TO THIS PERMIT SET.

LEGEND

 PROPOSED AREA OF WORK.



KEY PLAN - EXISTING FLOOR PLAN



Project Documents for:



Project:
FLEET CANOPY
4400 S. VINELAND ROAD
ORLANDO, FL. 32811

Issue	Date & Issue Description	Drawn By	Checked By
07.25.17	60% CD SET	MF	KA/MF
08.25.17	PERMIT/BID SET	MF	KA/MF
12.06.17	ADDENDA 1	KA	

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION 400 E SOUTH STREET 5th FLOOR ORLANDO, FL 32801

Project Number	Issue Date
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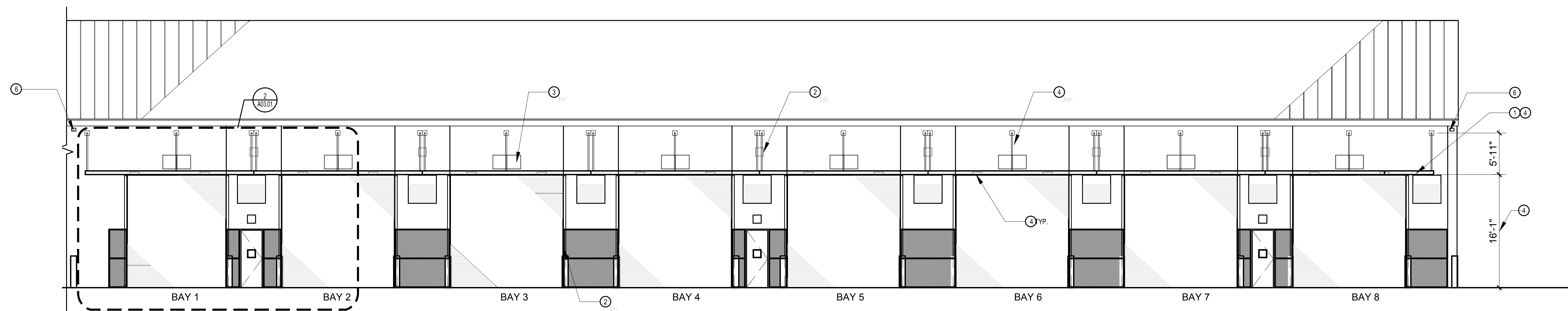
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Checked By	Scale
KA/MF	AS NOTED

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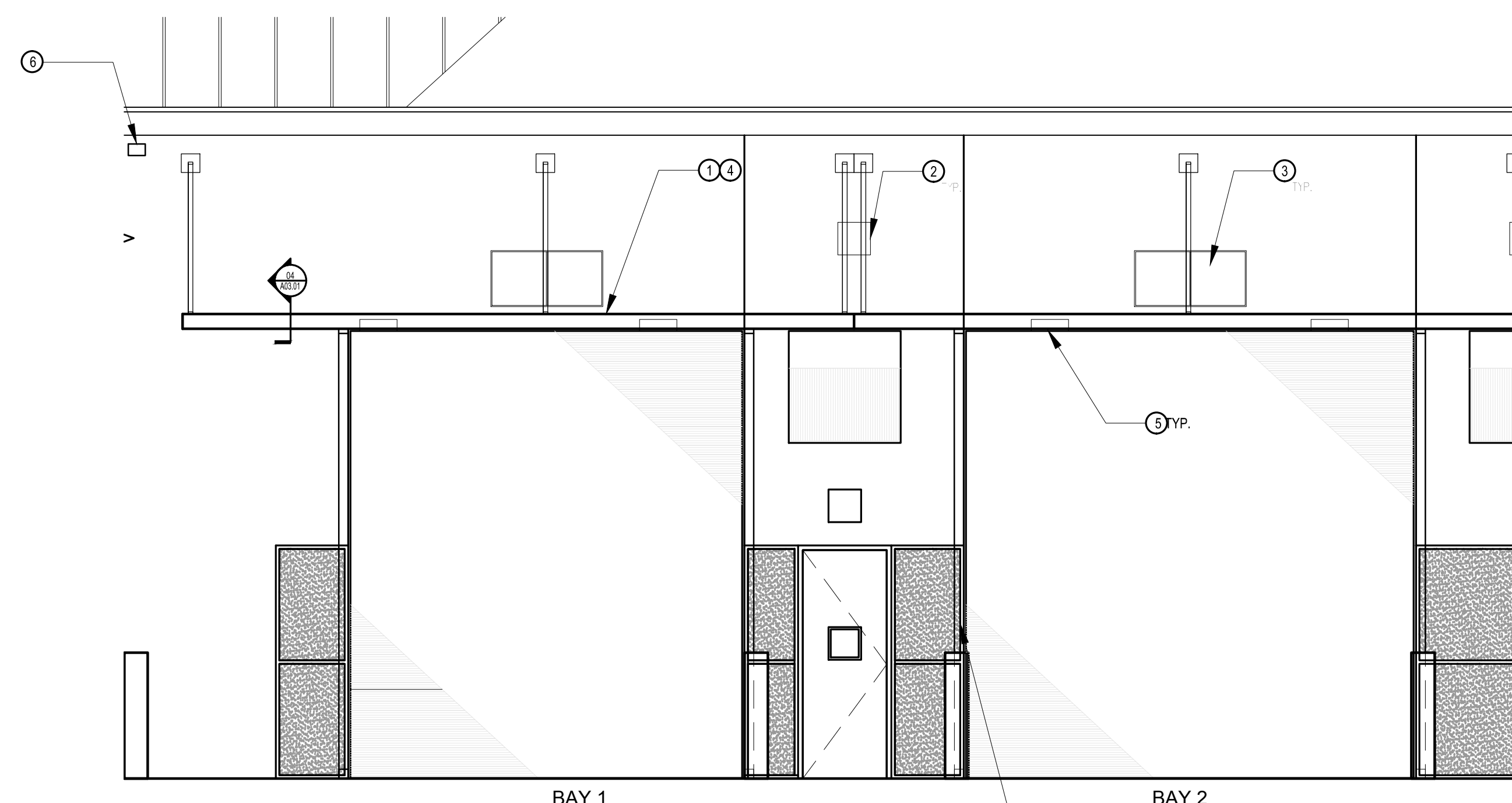
Sheet Title:
CONSTRUCTION PLAN

A03.01



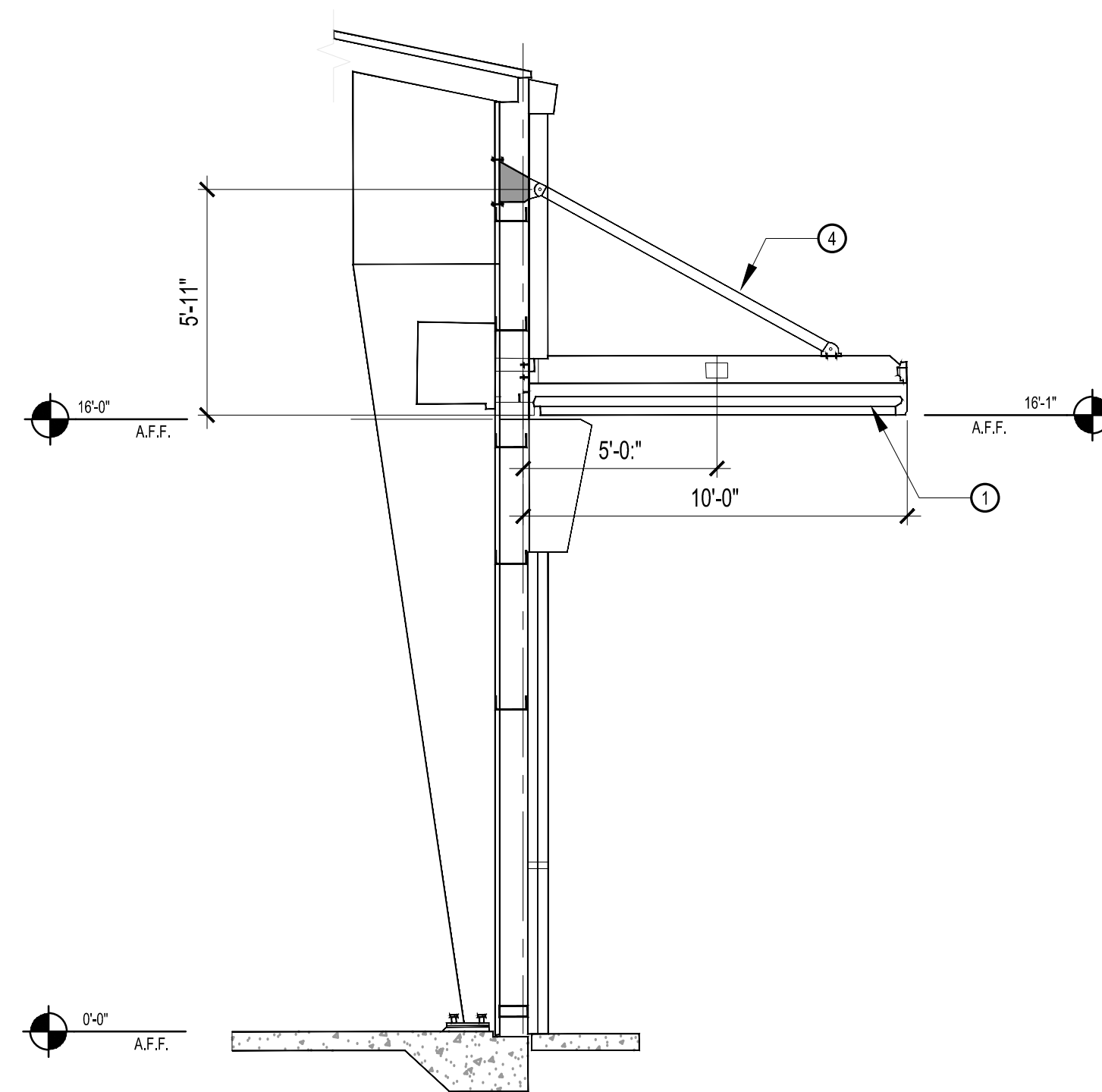
1. EXISTING PARTIAL WEST ELEVATION WITH PROPOSED CANOPY

SCALE: 1/8" = 1'-0"



2. ENLARGED PROPOSED CANOPY

SCALE: 1/4" = 1'-0"



4. EXISTING WALL SECTION WITH PROPOSED CANOPY

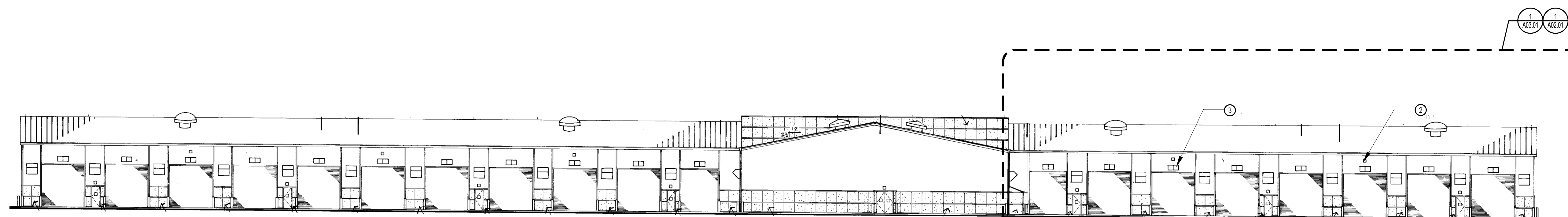
SCALE: N.T.S.

KEY NOTES

- PROPOSED PRE-FABRICATED METAL CANOPY WITH PAINTED POWDER COAT FINISH TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- EXISTING LIGHTS TO BE REMOVED. GO TO TURN OVER EXISTING LIGHTS TO FACILITY TO BE REUSED. REFER TO ELECTRICAL DRAWINGS AND SHEET A02.01 FOR LOCATION AND MORE INFORMATION.
- EXISTING BUILDING SIGNAGE TO BE RELOCATED TO FRONT FACE OF CANOPY IN THE CENTER OF EXISTING OVERHEAD DOORS.
- THE GENERAL CONTRACTOR TO COORDINATE CANOPY AND TIE BACK HEIGHTS WITH MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
- PROPOSED SURFACE MOUNTED LED CANOPY LIGHT. REFER TO ELECTRICAL DRAWINGS AND SHEET A02.01 FOR LOCATION AND MORE INFORMATION.
- EXISTING SECURITY CAMERA TO BE RELOCATED. GC TO COORDINATE WITH FLEET.
- TIE IN CANOPIES TO EXISTING DOWNSPOUTS.

SHEET NOTES

- REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- THE GENERAL CONTRACTOR TO COORDINATE ALL DISCIPLINES TO MEET CONSTRUCTION DEADLINES. COORDINATE ACCESS TO BUILDING AS NEEDED WITH FACILITIES AND BUILDING MANAGER.
- PRE-ENGINEERED CANOPIES TO MEET FLORIDA PRODUCT APPROVALS. PRE-ENGINEERED MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW.
- EXISTING SPEAKER SYSTEM WILL BE CHANGE OUT BY FLEET UNDER SEPARATE CONTRACT.



3. EXISTING WEST ELEVATION

SCALE: N.T.S.

Project Documents for:



Project:
 FLEET CANOPY
 4400 S. VINELAND ROAD
 ORLANDO, FL. 32811

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• SPACE PLANNING

• INTERIOR DESIGN

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET 5th FLOOR
 ORLANDO, FL 32801

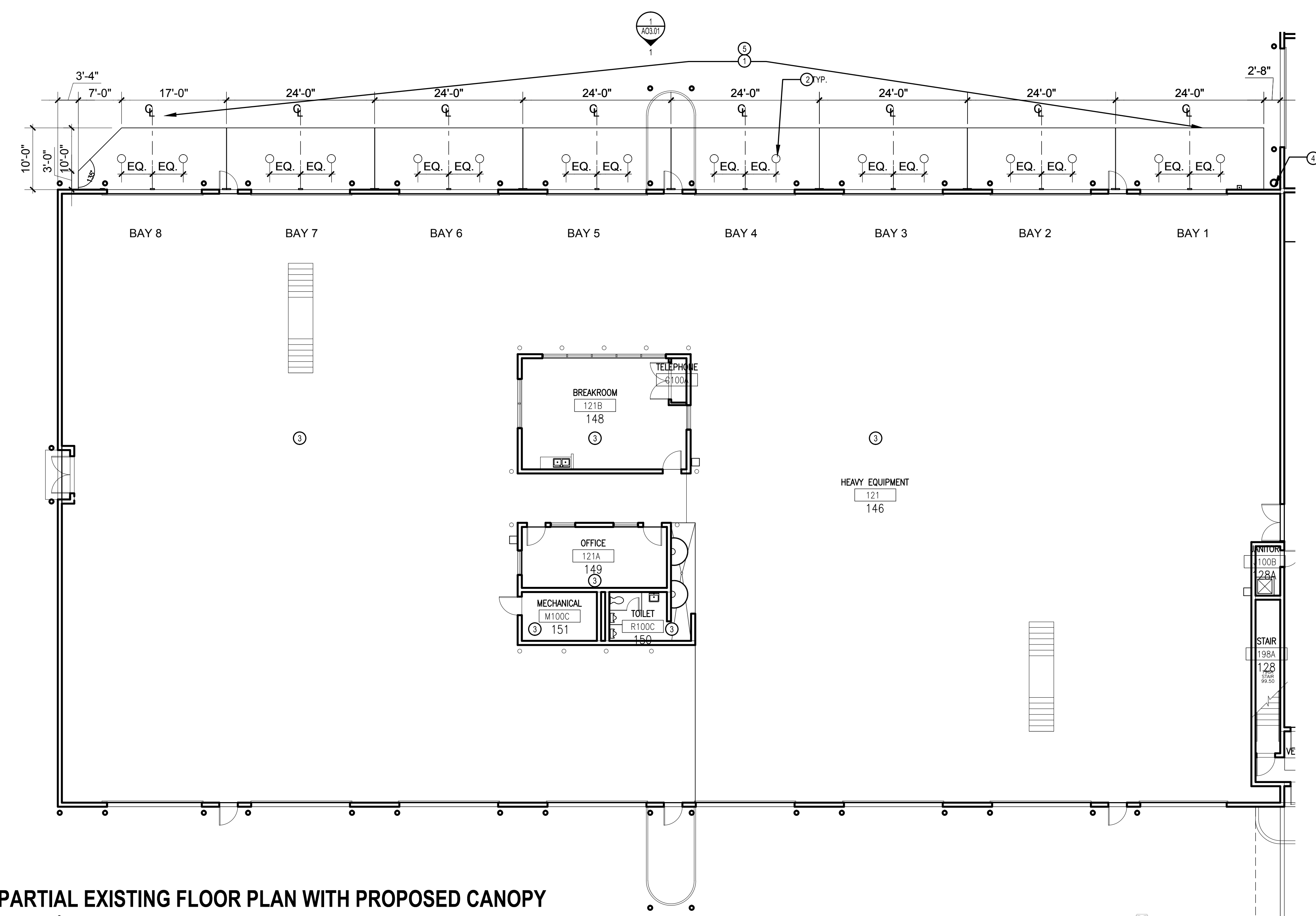
ARCHITECTURE

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
MF	PERMIT/ BID SET
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KA/MF	3/32" = 1'-0"

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 A02.01 CONSTRUCTION PLAN.dwg

Consultant • Seal/Signature

Sheet Title:
 CONSTRUCTION PLAN



1. PARTIAL EXISTING FLOOR PLAN WITH PROPOSED CANOPY
 SCALE: 3/32" = 1'-0"

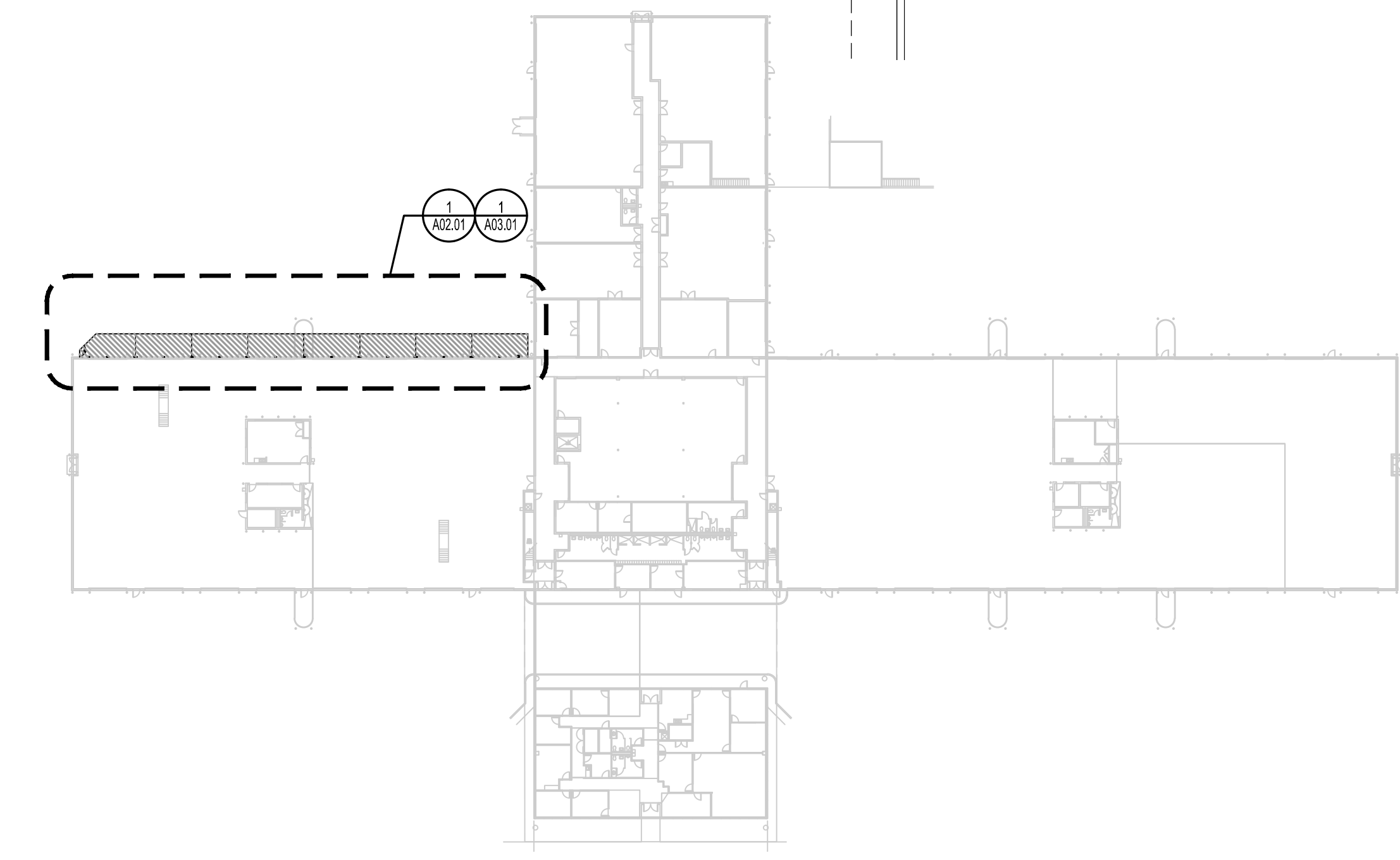
SHEET NOTES

- A. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- B. THE GENERAL CONTRACTOR SHALL COORDINATE ALL DISCIPLINES TO MEET CONSTRUCTION DEADLINES. COORDINATE ACCESS TO BUILDING AS NEEDED WITH FACILITIES AND BUILDING MANAGER.
- C. PRE-ENGINEERED CANOPIES TO MEET FLORIDA PRODUCT APPROVALS. PRE-ENGINEERED MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW.

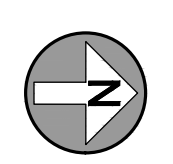
KEY NOTES

1. PROPOSED CANOPY WITH CLEAR ANODIZED METAL FINISH TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
2. PROPOSED SURFACE MOUNTED LED CANOPY LIGHT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. NOT IN SCOPE OF WORK.
4. THE GENERAL CONTRACTOR SHALL COORDINATE WITH FLEET FOR RELOCATION OF EXISTING SECURITY CAMERA.
5. FIRE SPRINKLER PROTECTION NOT REQUIRED UNDER NEW CANOPIES. NO COMBUSTIBLE MATERIALS TO BE STORED UNDER CANOPIES. SEE LETTER FROM OWNER STATING NO COMBUSTIBLE MATERIALS WILL BE STORED ATTACHED TO THIS PERMIT SET.

LEGEND



KEY PLAN - EXISTING FLOOR PLAN



Project Documents for:



Project:
FLEET CANOPY
4400 S. VINELAND ROAD
ORLANDO, FL. 32811

Issue	Date & Issue Description	Drawn By	Checked By
07.25.17	60% CD SET	MF	KA/MF
08.25.17	PERMIT/BID SET	MF	KA/MF

ARCHITECTURE

PLANNING

INTERIOR DESIGN

SPACE PLANNING

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

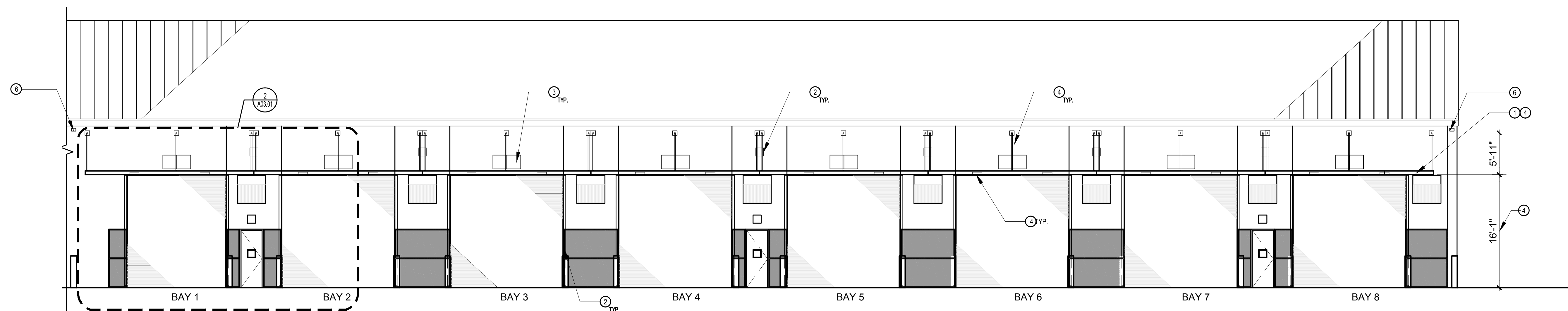
Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
MF	PERMIT/BID SET
Checked By	Scale
KA/MF	AS NOTED

File Name
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A03.01 Exterior Canopy Elevation - West 6-27-17.dwg

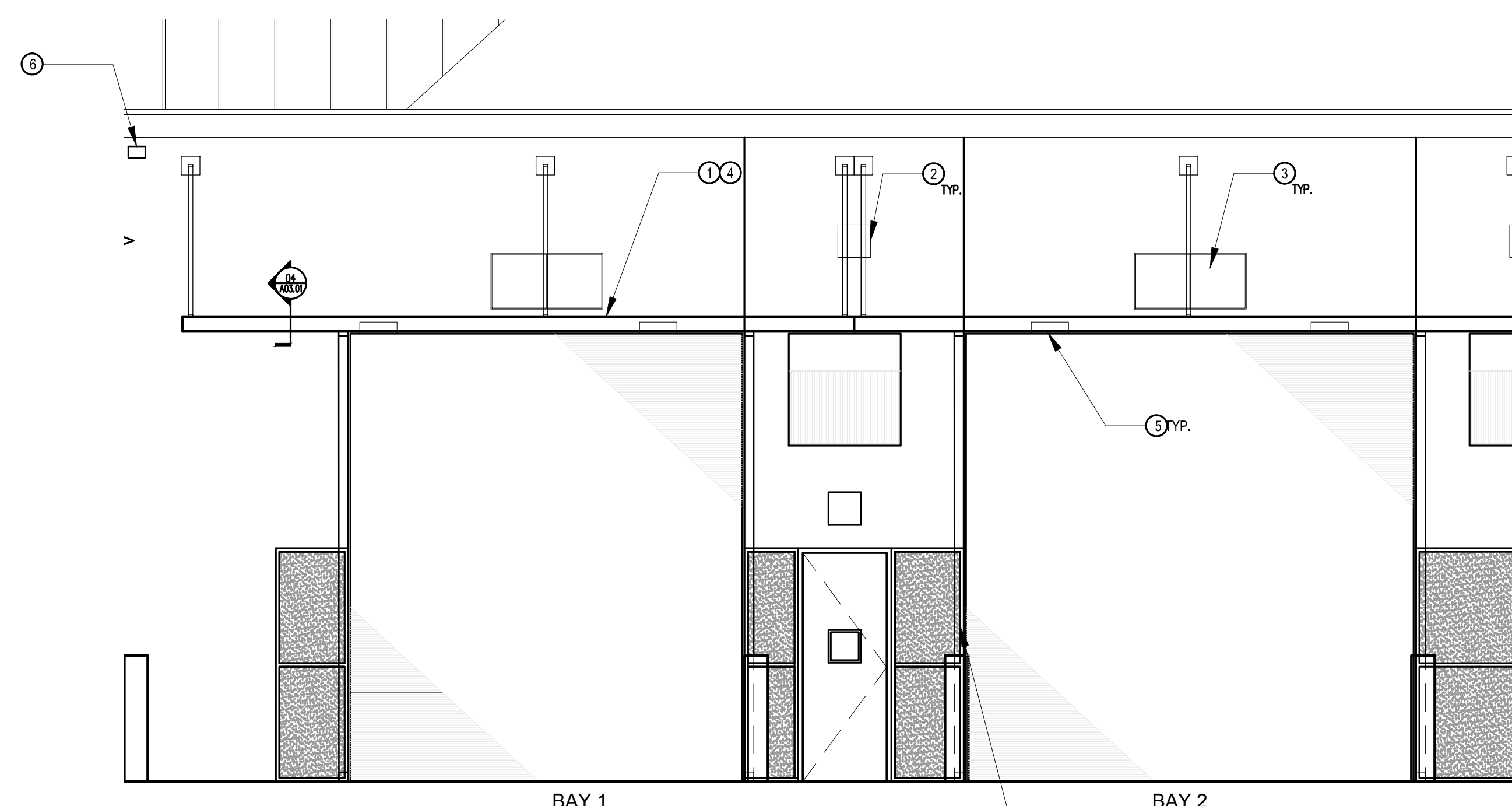
Consultant • Seal/Signature

Sheet Title:
CONSTRUCTION PLAN

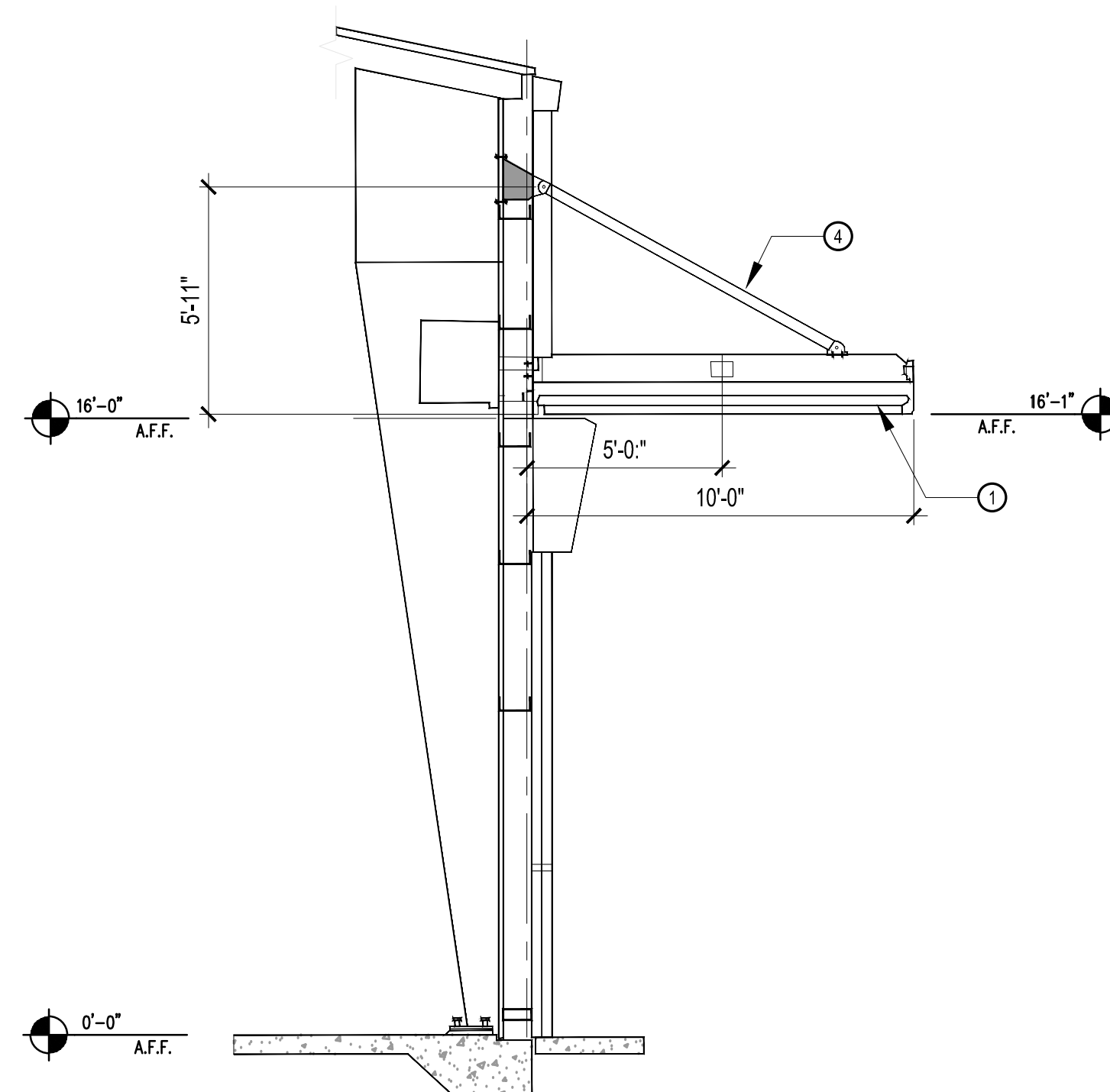
A03.01A



1. EXISTING PARTIAL WEST ELEVATION WITH PROPOSED CANOPY
SCALE: 1/8" = 1'-0"



2. ENLARGED PROPOSED CANOPY
SCALE: 1/4" = 1'-0"



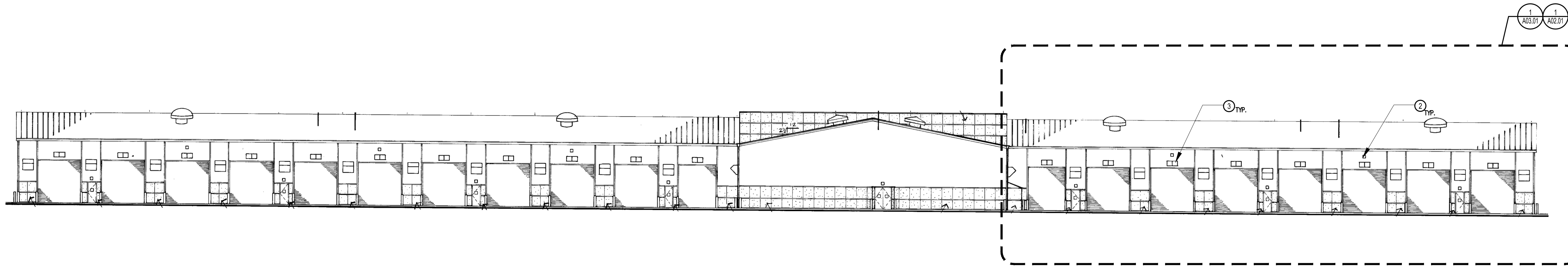
4. EXISTING WALL SECTION WITH PROPOSED CANOPY
SCALE: N.T.S.

KEY NOTES

- PROPOSED CANOPY WITH CLEAR ANODIZED METAL FINISH TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- EXISTING LIGHTS TO BE REMOVED. GC TO TURN OVER EXISTING LIGHTS TO FACILITY TO BE REUSED. REFER TO ELECTRICAL DRAWINGS AND SHEET A02.01 FOR LOCATION AND MORE INFORMATION.
- EXISTING BUILDING SIGNAGE TO BE RELOCATED TO FRONT FACE OF CANOPY IN THE CENTER OF EXISTING OVERHEAD DOORS.
- THE GENERAL CONTRACTOR TO COORDINATE CANOPY AND TIE BACK HEIGHTS WITH MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
- PROPOSED SURFACE MOUNTED LED CANOPY LIGHT. REFER TO ELECTRICAL DRAWINGS AND SHEET A02.01 FOR LOCATION AND MORE INFORMATION.
- EXISTING SECURITY CAMERA TO BE RELOCATED. GC TO COORDINATE WITH FLEET.
- TIE IN CANOPIES TO EXISTING DOWNSPOUTS.

SHEET NOTES

- REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- THE GENERAL CONTRACTOR TO COORDINATE ALL DISCIPLINES TO MEET CONSTRUCTION DEADLINES. COORDINATE ACCESS TO BUILDING AS NEEDED WITH FACILITIES AND BUILDING MANAGER.
- PRE-ENGINEERED CANOPIES TO MEET FLORIDA PRODUCT APPROVALS. PRE-ENGINEERED MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR REVIEW.
- EXISTING SPEAKER SYSTEM WILL BE CHANGE OUT BY FLEET UNDER SEPARATE CONTRACT.



3. EXISTING WEST ELEVATION
SCALE: N.T.S.

LIGHTING FIXTURES

- 1'x4' FIXTURE
- 2'x2' FIXTURE
- 2'x4' FIXTURE
- 4' WALL MOUNT LUMINAIRE
- 4' WALL MOUNT LUMINAIRE, EMERGENCY
- 1'x4' FIXTURE, BATTERY/EMERGENCY
- 2'x2' FIXTURE, BATTERY/EMERGENCY
- 2'x4' FIXTURE, BATTERY/EMERGENCY
- 4' STRIP FIXTURE
- 4' STRIP FIXTURE, BATTERY/EMERGENCY
- 4' STRIP FIXTURE, WALL MOUNTED
- 4' STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
- TRACK FIXTURE
- CEILING MOUNTED RECESSED, DOWN LIGHT
- CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
- CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
- SURFACE MOUNTED LIGHTING FIXTURE
- WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
- EMERGENCY LIGHT FIXTURE
- SINGLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS
- DOUBLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS

SWITCHES

- SWITCH
- SWITCH, 2 POLE
- SWITCH, 3-WAY
- MOTOR RATED SWITCH

LIGHTING CONTROL DEVICES

- *PIR-CEILING MOUNT SENSOR 24 VDC/VAC, 11mA, WATTSTOPPER CI-205 OR EQUAL.
 - *DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL.
 - *DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL.
 - *ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/VAC, 40mA, WATTSTOPPER WT-2250 OR EQUAL.
 - PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL.
 - DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL.
 - DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL.
 - DUAL ULTRASONIC/PIR-MULTI-WAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-103 OR EQUAL.
 - POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY. WATTSTOPPER BZ-150 OR EQUAL.
- *FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL. WATTSTOPPER BZ-150 OR EQUAL.

POWER DEVICES

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- ABOVE COUNTER DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, HALF SWITCHED
- SPECIAL PURPOSE RECEPTACLE
- BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
- BLACK QUAD RECEPTACLE FOR COMPUTER WORKSTATION
- CEILING MOUNTED RECEPTACLE
- RECESSED FLOOR RECEPTACLE
- DUPLEX RECEPTACLE, GROUND FAULT
- DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
- QUAD RECEPTACLE, GROUND FAULT
- POWER POLE
- DISCONNECT SWITCH
- JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- EQUIPMENT CONNECTION
- DOOR BELL PUSH BUTTON
- TRANSFORMER
- DOOR BELL
- MOTOR
- GROUND BUS BAR

POWER DISTRIBUTION

- 120/208V PANELBOARD, RECESSED
- 120/208V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, RECESSED
- FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: (4) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

ABBREVIATIONS

A	AMPERES	INC	INCANDESCENT
AE	AUDIO ENHANCEMENT	JB	JUNCTION BOX
AFC	ABOVE FINISHED CEILING	KV	KILO-VOLTS
AFF	ABOVE FINISHED FLOOR	KVA	KILO-VOLTS-AMPERES
AFG	ABOVE FINISHED GRADE	KVAR	KILO-VOLTS-AMPERES REACTIVE CAPACITY
AIC	AMPERES INTERRUPTING CAPACITY	KW	KILO-WATTS
AL	ALUMINUM	KWH	KILO-WATT-HOURS
AWG	AMERICAN WIRE GAUGE	LTG	LIGHTING
BFC	BELOW FINISHED CEILING	m	METER
BFG	BELOW FINISHED GRADE	mm	MILLIMETER
C	CONDUIT	MAX	MAXIMUM
CAB	CABINET	MCB	MAIN CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR SUPPLIED	MCC	MOTOR CONTROL CENTER
CKT	CIRCUIT	MCP	MOTOR CIRCUIT PROTECTOR
CLG	CEILING	MFR	MANUFACTURER
CL	CENTERLINE	MH	METAL HALIDE
CT's	CURRENT TRANSFORMERS	MIN	MINIMUM
CU	COPPER	MISC	MISCELLANEOUS
DISC	DISCONNECT(ING)	MTR	MOTOR
DWG	DRAWING(S)	MTD	MOUNTED
EA	EACH	MTG	MOUNTING
EF	EXHAUST FAN	NEC	NATIONAL ELECTRICAL CODE
EMT	ELECTRICAL METALLIC TUBING	OFI	OWNER FURNISHED OWNER INSTALLED
EQUIP	EQUIPMENT	PNL	PANEL
EUH	ELECTRIC UNIT HEATER	PSI	PULL STATION INSIDE
EWC	ELECTRIC WATER COOLER	PVC	POLYVINYL CHLORIDE
EWV	ELECTRIC WATER HEATER	REC	RECEPTACLE
EXH	EXHAUST	RGS	RIGID GALVANIZED STEEL
EXIST	EXISTING	TEL	TELEPHONE
EXP	EXPLOSION PROOF	TYP	TYPICAL
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	V	VOLTS
FLUOR	FLUORESCENT	VA	VOLT-AMPERES
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
GFP	GROUND FAULT PROTECTION	W	WATTS
GND	GROUND	WP	WEATHER PROOF
HGT	HEIGHT	XFMR	TRANSFORMER
HID	HIGH INTENSITY DISCHARGE		
HPS	HIGH PRESSURE SODIUM		
HOA	HAND-OFF-AUTOMATIC		
HP	HORSEPOWER		
HVAC	HEATING/VENTILATING/AIR CONDITIONING		
HV	HIGH VOLTAGE		

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	DESIGN SELECTION	VOLTS	LAMPS/FIXT.
A	SURFACE MOUNTED LED CANOPY LIGHT FIXTURE. WHITE FINISH, 1/2" CONDUIT ENTRIES	CREE # C-CP-A-SQ-49L-40K-WH OR APPROVED EQUAL	UNIV	LED 4900 LUMEN 4000K

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

Project Documents for:



Project: FLEET CANOPY

Issue	Date & Issue Description	Drawn By	Checked By
	08.25.17	BID/PERMIT SET	JUB JLM

ARCHITECTURE	PLANNING	INTERIOR DESIGN	MECHANICAL	ELECTRICAL	HAZARDOUS WASTE	LANDSCAPE ARCHITECTURE	TRAVEL	UTILITY	WATER SUPPLY	WASTE WATER

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
JUB	PERMIT/BID SET
Checked By	Scale
JLM	NTS

File Name
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Consultant • Seal/Signature

MARK A. ESCOTT-FL50737

Sheet Title:

ELECTRICAL SYMBOLS LEGEND AND GENERAL NOTES

Project Documents for:



Project:
FLEET CANOPY

Issue	Date & Issue Description	Drawn By	Checked By
	08.25.17	BID/PERMIT SET	JLM

PLANNING

• SPACE PLANNING

• INTERIOR DESIGN

PLANNING

• CLIENT INFORMATION

ARCHITECTURE

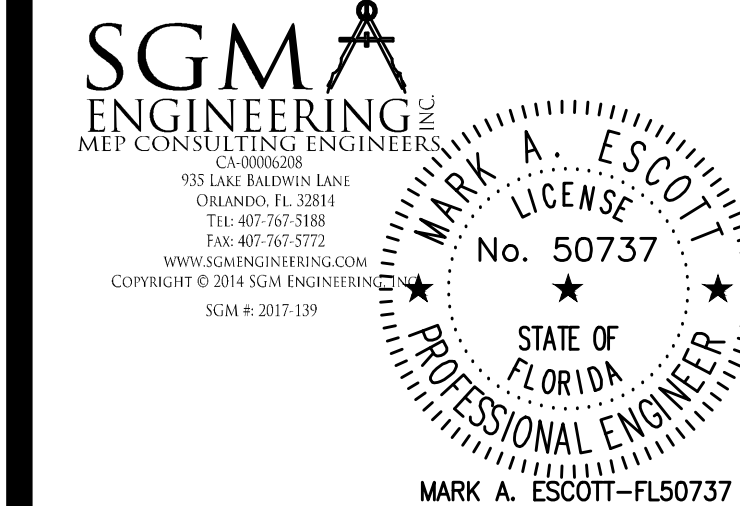
Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION	
400 E SOUTH STREET 6th FLOOR	
• ORLANDO, FL 32801	

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
JLM	PERMIT/BID SET
Checked By	Scale
JLM	NTS

File Name
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Consultant • Seal/Signature



Shoot Title:

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

- ALL ELECTRICAL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING.
 - NFPA 70 NATIONAL ELECTRICAL CODE (2011 EDITION)
 - FLORIDA BUILDING CODE (FIFTH EDITION 2014)
 - NFPA 72 NATIONAL FIRE CODE (2010 EDITION)
 - FLORIDA FIRE PREVENTION CODE (FIFTH EDITION)
 - LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
- UTILIZE GOOD WORKMANSHIP FOR THE INSTALLATION OF ALL WORK. INSTALL WORK LEVEL, PLUMB, AND TRUE WITH THE BUILDING STRUCTURE AND WALLS. SECURE ALL WORK IN PLACE WITH SUPPORTS THAT ARE SUFFICIENT IN SIZE AND QUANTITY TO PERMANENTLY SUPPORT THE WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE DEMOLITION OF EXISTING AND/OR THE STOCKING OF NEW BUILDING MATERIALS SHALL NOT HINDER OR INTERFERE WITH EMERGENCY ACCESS TO THE PROPERTY OR VICINITY THEREOF (INCLUDING FIRE LANES).
- ALL MATERIALS SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. (IE, UL, CSA, MET, ETC.)
- ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECT, EXCEPT WHERE SPECIFICALLY SHOWN TO REUSE EXISTING MATERIALS.
- ALL WORK SHALL BE SUITABLE FOR THE ENVIRONMENT THAT IT IS INSTALLED.
- COORDINATE THE INSTALLATION OF THE UTILITY TRANSFORMER WITH THE APPROPRIATE POWER COMPANY. CONFIRM WITHIN 10 DAYS OF THE AWARD OF CONTRACT THAT THE AVAILABLE FAULT CURRENT AT THE TRANSFORMER SECONDARY BUSHINGS DOES NOT EXCEED THE DESIGNED FAULT CURRENT AT THE SERVICE ENTRANCE EQUIPMENT. NOTIFY THE ENGINEER IMMEDIATELY IF THE DESIGNED FAULT CURRENT IS EXCEEDED.
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SCHEDULE PROVIDED BY THE OWNER/GC. CONTRACTOR SHALL SUPPLY ALL MANPOWER (INCLUDING SHIFT WORK, OVERTIME, AND HOLIDAYS) AND MATERIALS AS REQUIRED TO COMPLY WITH THIS SCHEDULE.
- VISIT THE SITE OF THE PROPOSED PROJECT TO BECOME FAMILIAR WITH CONDITIONS AND NATURE OF THE WORK PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION PRIOR TO SUBMITTING BIDS. SUBMISSION OF A PROPOSAL WILL BE EVIDENCE THAT SUCH FAMILIARIZATION HAS BEEN ATTAINED.
- ANY DEMOLISHED ITEMS SHALL BE DISPOSED OF OR RECYCLED OFF SITE IN ACCORDANCE WITH STATE STATUTES UNLESS NOTED SPECIFICALLY TO BE TURNED OVER TO OWNER.
- WHERE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF CONDUIT, DIFFERENT LOCATIONS OF EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BE RESPONSIBLE FOR ALL COST AND CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR PROBLEMS THAT INCREASE COST, INCREASE CONSTRUCTION TIME OR CREATE CODE VIOLATIONS.
- INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES FOR LOCATION AND BURIAL DEPTHS WILL BE REQUIRED AND ANY SUCH REQUIRED DEVIATIONS SHALL BE CONSIDERED PART OF THIS SCOPE OF WORK. SITE UTILITY INFORMATION IS NOT GUARANTEED, THEREFORE THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO BEGINNING WORK. PROTECT ANY EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH THE MECHANICAL, PLUMBING, ARCHITECTURAL, STRUCTURAL, CIVIL AND ELECTRICAL PLANS BEFORE SUBMITTING BIDS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH THE PROJECT.
- IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMISSION OF A BID. THE ARCHITECT OR ENGINEER SHALL MAKE CORRECTION OR CLARIFICATION IN WRITING. NO ADDITIONAL COMPENSATION WILL BE PERMITTED FOR WORK OR MATERIALS WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- PROVIDE TEMPORARY LIGHTING AND POWER FOR THE PROJECT IN ACCORDANCE WITH OSHA STANDARDS. ADEQUATE DISTRIBUTION AND OUTLETS SHALL BE PROVIDED TO POWER ALL CONTRACTORS 120V SINGLE PHASE TOOLS WITHIN 100' OF ALL WORK SPACES.
- ALL SYSTEMS SHALL BE TESTED FOR PERFORMANCE VERIFICATION IN THE PRESENCE OF THE OWNER, AT THE COMPLETION OF THE PROJECT. ALLOW 4 HOURS FOR TRAINING OWNERS PERSONNEL ON ALL SYSTEMS.
- THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT TO BE COMPLETELY FREE OF INTERNAL DEBRIS, EXTERIOR PAINT/MARKS, AND DIRT.
- PROVIDE 1 YEAR WARRANTY FOR ALL MATERIALS AND LABOR FROM THE DATE OF CERTIFICATE OF OCCUPANCY.
- CONTRACTOR PERFORMING ANY PART OF THIS SCOPE OF WORK SHALL BE A STATE CERTIFIED (TYPE E.C. LICENSE) ELECTRICAL CONTRACTOR. PROVIDE FIELD SUPERINTENDENT WHO HAS A MINIMUM OF FOUR (4) YEARS PREVIOUS SUCCESSFUL EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY.
- SUPERINTENDENT SHALL BE ON THE SITE AT ALL TIMES DURING CONSTRUCTION AND MUST HAVE AN ACTIVE JOURNEYMAN OR MASTER ELECTRICAL LICENSE FOR THE JURISDICTION WHERE THE WORK IS BEING PERFORMED. WORK IS IN CONNECTION WITH EXISTING BUILDINGS WHICH MUST REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. WORK SHALL BE IN ACCORDANCE WITH THE SCHEDULE REQUIRED BY THE CONTRACT. SCHEDULE WORK FOR MINIMUM OUTAGES ACCEPTABLE TO OWNER. NOTIFY OWNER 72 HOURS IN ADVANCE OF ANY SHUT-DOWN OF EXISTING SYSTEMS. PERFORM WORK DURING NON-SCHOOL OPERATING HOURS UNLESS OTHERWISE ACCEPTED BY OWNER. PROTECT EXISTING BUILDINGS AND EQUIPMENT DURING CONSTRUCTION.
- THE USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING OR INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. THE REQUIREMENTS OF THIS SPECIFICATION FOR COMPLETE AND OPERATING ELECTRICAL SYSTEMS SHALL BE MET WITHOUT THE USE OF ASBESTOS OR PCB.
- WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, CONTRACTOR IS TO PROVIDE THE OWNER WITH AS-BUILT DRAWINGS OF THE SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATIONS OF EQUIPMENT SERVED. ALSO, PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR EQUIPMENT REQUIRING MAINTENANCE AND THE CONTACT INFORMATION FOR A QUALIFIED SERVICE AGENCY.

SECTION 26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

- ALL WIRING SHALL BE INSTALLED IN ADEQUATELY SIZED CONDUIT UNLESS OTHERWISE NOTED. USE 3/4" MINIMUM FOR ALL CONDUITS.
- CONCEAL ALL CONDUITS IN WALLS, ABOVE FINISHED CEILING, IN FLOOR SLABS AND UNDERGROUND EXCEPT IN MECHANICAL AND ELECTRICAL ROOMS.
- CREATE ALL OPENINGS FOR CONDUIT PENETRATIONS THROUGH WALLS, SLABS, AND ROOF OPENINGS. SEAL ALL PENETRATIONS APPROPRIATELY. PROVIDE PROPER FIRE PENETRATION SEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS, CEILING, AND FLOORS IN ACCORDANCE WITH THE APPROPRIATE UL LISTED FIRE PENETRATION DETAILS.
- COORDINATE THE INSTALLATION OF ALL CONDUITS WITH STRUCTURAL, MECHANICAL, PLUMBING, AND OTHER CONTRACTORS PRIOR TO INSTALLATION.
- USE SCHEDULE 40 PVC FOR ALL EXTERIOR BELOW GRADE WORK. USE GRC FOR EXPOSED EXTERIOR WORK. SWEEPS SHALL BE UTILIZED FOR ALL UTILITY CONDUITS AND AS NEEDED BY THE CONTRACTOR FOR PULLING PURPOSES.
- EMT SHALL BE USED FOR ALL INTERIOR WORK EXCEPT USE GRC WHERE CONDUIT IS SUBJECT TO DAMAGE. STEEL SET SCREW INSULATED THROAT FITTINGS SHALL BE USED IN DRY LOCATIONS. STEEL COMPRESSION INSULATED THROAT FITTINGS SHALL BE USED IN WET OR DAMP LOCATIONS.
- USE FLEXIBLE METAL CONDUIT IN DRY LOCATIONS AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT IN DAMP OR WET LOCATIONS FOR THE FINAL CONNECTION OF MOTORS, TRANSFORMERS AND OTHER EQUIPMENT WITH VIBRATION.
- MC CABLE MAY ONLY BE USED FOR LIGHTING AND POWER BRANCH CIRCUITS 20A OR SMALLER. MC CABLE SHALL NOT BE USED FOR HOMERUNS (FROM PANEL TO FIRST DEVICE, FIXTURE, OR EQUIPMENT) (PULL BOXES AND JUNCTION BOXES ARE NOT CONSIDERED DEVICES, FIXTURES, OR EQUIPMENT). MC CABLE SHALL NOT BE INSTALLED IN LENGTHS EXCEEDING 50' BETWEEN DEVICES OR WHERE IT IS EXPOSED.
- ALL UNUSED OR SPARE CONDUITS SHALL BE CAPPED AND LABELED (OPPOSITE END LOCATION AND USE) AT BOTH ENDS. PBO BE WITH A PULL STRING.
- ALL CONDUIT AND CABLE SUPPORTS SHALL BE LISTED AND LABELED FOR THEIR INTENDED INSTALLATION. TIE WIRE SHALL NOT BE UTILIZED FOR SUPPORT.
- PROVIDE OUTLET BOXES THAT ARE 4" SQUARE STEEL WITH PLASTER RING SIZED IN ACCORDANCE WITH THE NEC FOR DRY LOCATIONS. USE MINIMUM 1 1/2" DEEP BOXES. COORDINATE THE APPROPRIATE RING TYPE WITH THE DEVICE OR FIXTURE TO BE INSTALLED.
- PROVIDE OUTLET BOXES THAT ARE CAST ALUMINUM WITH THREADED HUBS FOR EXPOSED DAMP OR WET LOCATIONS.
- USE NEMA 1 RATED BOXES FOR PULL BOXES IN DRY LOCATIONS. USE NEMA 3R RATED BOXES FOR ALL EXTERIOR ABOVE GROUND PULL BOXES. USE STAINLESS STEEL OR PVC BOXES IF EXPOSED TO CORROSIVE ENVIRONMENT.
- EXTERIOR IN GROUND BOXES SHALL BE NEMA 6 RATED FOR UNDERWATER SUBMERSION. PROVIDE APPROPRIATE CONCRETE RING AND COVER OVER NEMA 6 BOXES FOR ACCESS AND MECHANICAL PROTECTION. PROVIDE TRAFFIC CONE COVERS FOR CONCRETE RINGS IN ALL AREAS.
- FLOOR BOXES FOR SLAB ON GRADE SHALL BE PVC WITH BRASS COVERS AND RINGS. FLOOR BOXES IN ALL OTHER RATED FLOORS SHALL BE DEEP CAST STEEL WITH BRASS COVERS AND RINGS. UTILIZE POKE THRU BOXES WITH BRASS COVERS FOR USE IN EXISTING FIRE RATED FLOORS.
- COORDINATE ALL POWER AND SYSTEM DEVICE BOX LOCATIONS SO THAT THEY ARE LOCATED AT THE SAME HEIGHT WHEN LOCATED ADJACENT TO EACH OTHER.
- THIS CONTRACTOR SHALL GET FINAL APPROVAL FROM THE ARCHITECT FOR THE LOCATIONS OF ALL EXTERIOR LIGHT FIXTURES, POWER OUTLETS, AND SYSTEM DEVICES PRIOR TO THE INSTALLATION OF BOXES AND CONDUIT.
- ITEMS LOCATED IN TILE SURFACES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE DIMENSIONS GIVEN AND SHALL BE HORIZONTALLY AND VERTICALLY CENTERED AND ALIGNED WITH THE TILE JOINTS.
- LOCATE CEILING MOUNTED ITEMS AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS. WHERE ITEMS ARE NOT SHOWN ON THE REFLECTED CEILING PLAN, CONSULT THE ARCHITECT AND LOCATE ACCORDINGLY.
- WHERE INSTALLATION ABOVE COUNTER IS INDICATED, INSTALL ITEM 1" FROM THE BOTTOM OF THE BOX OR ITEM TO THE TOP OF THE COUNTER (OR BACKSPLASH IF SO EQUIPPED).
- INSTALL FIXTURE BOXES ABOVE DOORS A MINIMUM OF 1" FROM THE BOTTOM OF THE BOX OR FIXTURE TO THE TOP OF THE DOOR FRAME. PRIOR TO BOX INSTALLATION, VERIFY THAT THERE IS SUFFICIENT WALL SPACE ABOVE THE DOOR IS AVAILABLE FOR THE ITEM TO BE INSTALLED.
- INSTALL LIGHTING FIXTURE BOXES SHOWN WALL MOUNTED ABOVE MIRRORS CENTERED WITH THE MIRROR AND 1" FROM THE BOTTOM OF THE BOX OR FIXTURE TO THE TOP OF THE MIRROR.
- THE CONTRACTOR SHALL VERIFY THE EXACT DIRECTION OF ALL DOOR SWINGS PRIOR TO THE ROUGH IN OF BOXES MOUNTED IN WALLS.

SECTION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

- ALL POWER CONDUCTORS SHALL BE COPPER WITH DUAL RATED THHN/THWN 600V INSULATION.
- PROVIDE ALL FEEDERS WITH CONDUCTORS SIZED SUCH THAT THEY DO NOT EXCEED 2% VOLTAGE DROP PER FBC ENERGY CONSERVATION C405.7.3.1.
- PROVIDE ALL BRANCH CIRCUITS WITH CONDUCTORS SIZED SUCH THAT THEY DO NOT EXCEED 3% VOLTAGE DROP PER FBC ENERGY CONSERVATION C405.7.3.2. THE FOLLOWING METHOD SHALL BE USED FOR TYPICAL BRANCH CIRCUITS:
 - ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS LESS THAN 60' IN LENGTH FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL UTILIZE #12 MINIMUM THROUGHOUT AND #12 GROUND.
 - ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 60' TO 120' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL UTILIZE #10 MINIMUM THROUGHOUT AND #10 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 120' TO 240' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 8 CONDUCTOR MINIMUM THROUGHOUT AND #8 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS GREATER THAN 240' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 6 CONDUCTOR MINIMUM THROUGHOUT AND #6 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS LESS THAN 140' IN LENGTH FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL UTILIZE # 12 CONDUCTOR MINIMUM THROUGHOUT AND #12 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 140' TO 220' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 10 CONDUCTOR MINIMUM THROUGHOUT AND #10 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 277, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS 220' TO 340' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL BE # 8 CONDUCTOR MINIMUM THROUGHOUT AND #8 GROUND, UNLESS OTHERWISE NOTED.
 - ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS WHERE THE LENGTH IS GREATER THAN 340' FROM THE CIRCUIT BREAKER TO ANY DEVICE SHALL UTILIZE # 6 CONDUCTOR MINIMUM THROUGHOUT AND #6 GROUND, UNLESS OTHERWISE NOTED.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL DIMMER CIRCUITS FROM THE LOAD BACK TO THE DIMMER.
- DO NOT PULL CONDUCTORS INTO CONDUIT UNTIL CONDUIT IS COMPLETE FROM END TO END AND ALL WORK, WHICH MAY CAUSE DAMAGE TO CONDUCTORS, IS COMPLETED.
- USE PULLING MEANS THAT WILL NOT DAMAGE CABLES OR RACEWAYS. USE MANUFACTURERS APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY. DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B.
- NE SPLICES SHALL BE MADE IN JUNCTION BOX, AND OUTLET BOXES (WIRE NO. 6 AND LARGER) WITHOUT WRITTEN ACCEPTANCE OF ENGINEER.
- ALL INTERIOR POWER AND LIGHTING TAPS AND SPLICES IN NO. 8 OR SMALLER SHALL BE FASTENED TOGETHER BY MEANS OF 'SPRING TYPE' CONNECTORS. ALL TAPS AND SPLICES IN WIRE LARGER THAN NO. 8 SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS AND TAPED TO PROVIDE INSULATION EQUAL TO WIRE.
- ALL EXTERIOR BELOW GRADE POWER AND LIGHTING TAPS AND SPLICES SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS AND COVERED WITH RAYCHEM HEAVY WALL CABLE SLEEVES (TYPE CRSM-CT, WCSM OR MCK) WITH TYPE 'S' SEALANT COATING WITH SLEEVE KITS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS OR BE TERMINATED/CONNECTED TO IN ABOVE GRADE TERMINAL BOXES SUITABLE FOR SUCH EXTERIOR USE.

SECTION 26 51 00 - LIGHTING FIXTURES

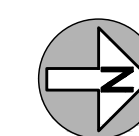
- PROVIDE ALL FIXTURES AS INDICATED IN THE FIXTURE SCHEDULE INCLUDING MATCHING LAMP(S) FOR EACH FIXTURE. ALL FIXTURES MUST BE UL LABELED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
- ALL FLUORESCENT LIGHTING BALLAST SHALL BE ELECTRONIC, LESS THAN 20% HARMONIC DISTORTION, SOUND RATING A, AND BE WIRED TO MAINTAIN FULL LIGHT OUTPUT ON SURVIVING LAMPS IF ONE LAMP FAILS.
- PROVIDE DIMMING BALLAST TO MATCH THE DIMMER SWITCH TO BE INSTALLED WHEN REQUIRED FOR LOW VOLTAGE AND FLUORESCENT LIGHTING.
- ALL FLUORESCENT LAMPS SHALL HAVE HIGH COLOR RENDERING (85 CRI) AND PROVIDE A COLOR TEMPERATURE OF 4100K UNLESS OTHERWISE NOTED.
- EXIT SIGNS SHALL BE INTERNALLY LIGHTED BY LED WITH A 70,000 HOUR MINIMUM LAMP LIFE AND BE SELF POWERED BY BATTERY TO REMAIN LIGHTED FOR 90MIN DURATION UPON LOSS OF POWER. BATTERY SHALL BE WARRANTED FOR A PERIOD OF NOT LESS THAN 5 YEARS.
- ALL EMERGENCY FIXTURES SHALL PROVIDE BATTERY BACK-UP FOR 90 MIN UPON LOSS OF POWER. PROVIDE 1100 LUMEN EMERGENCY BATTERY PACKS FOR 90 MIN BACK UP OF FIXTURES AS INDICATED ON THE PLANS.
- PROVIDE TUBE GUARDS AROUND ALL EXPOSED TUBE (NO LENS) FIXTURES.
- PROVIDE FIXTURE SUPPORTS TO ALLOW FOR A REDUNDANT SUPPORT (ALLOW FOR FAILURE OF ONE SUPPORT POINT) FOR ALL FIXTURES. PROVIDE APPROPRIATE SLOPED CEILING ADAPTERS FOR SLOPED CEILINGS.
- COORDINATE THE CEILING TRIM TYPE WITH THE ACTUAL CEILING TO BE INSTALLED.
- PROVIDE FOUNDATION FOR ALL SITE LIGHTING FIXTURES AND POLES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ALL EXTERIOR MOUNTED FIXTURES, POLES, AND BASES SHALL BE DESIGNED AND MANUFACTURED TO WITHSTAND 150MPH WIND.

SECTION 26 27 26 - WIRING DEVICES

- THE COLOR OF WIRING DEVICES SHALL BE SELECTED BY THE ARCHITECT FROM IVORY, WHITE, BLACK, BROWN, OR GRAY.
- LIGHT SWITCHES SHALL BE 20A, 120/277V, SPECIFICATION GRADE, TOGGLE. PROVIDE SINGLE POLE, DOUBLE POLE, 3 WAY, OR 4 WAY AS INDICATED.
- GENERAL USE RECEPTACLES SHALL BE 20A, 120V, SPECIFICATION GRADE, HEAVY DUTY, NS-20R.
- GROUND FAULT INTERRUPTING RECEPTACLES SHALL BE 20A, 120V, HEAVY DUTY, SPECIFICATION GRADE, NS-20R.
- PROVIDE HIGH IMPACT THERMOPLASTIC 1MM THICK WALL PLATES FOR ALL DEVICES. PROVIDE A SINGLE PLATE FOR MULTIPLE GANG MOUNTED DEVICES.
- IN WET LOCATIONS PROVIDE METALLIC SPRING LEADED LIFT COVERS LISTED AND LABELED FOR USE IN WET LOCATIONS WHILE "IN USE".
- ALL RECEPTACLES AND SWITCHES SHALL BE GROUNDED BY MEANS OF A GROUND WIRE FROM DEVICE GROUND SCREW TO OUTLET BOX SCREW AND BRANCH CIRCUIT GROUND CONDUCTOR. STRAP ALONE WILL NOT CONSTITUTE AN ACCEPTABLE GROUND.
- UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES OR RECEPTACLES UNDER MULTIGANG WALL PLATES. PROVIDE PROPER NEC BARRIERS IN BOXES WHICH SERVE DEVICES FOR BOTH THE NORMAL AND EMERGENCY SYSTEMS.
- AT EACH RECEPTACLE "IN" AND "OUT" PHASE AND NEUTRAL CONDUCTORS SHALL HAVE AN ADDITIONAL CONDUCTOR FOR CONNECTION TO DEVICE. THE PRACTICE OF "LOOPING" CONDUCTORS THROUGH RECEPTACLE BOXES SHALL NOT BE ACCEPTABLE.

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- PROVIDE CONTINUOUS GROUNDING SYSTEM IN ACCORDANCE WITH NEC 250 AND AS INDICATED.
- PROVIDE COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.
- PROVIDE AT LEAST (3) 30' X 3/4" COPPER GROUND RODS SPACED 30' APART TO FORM A DELTA FOR THE GROUNDING ELECTRODE. TEST GROUND RESISTANCE OF THE DELTA RODS TO BE 5 OHM OR LESS WITHOUT CONNECTION TO THE REMAINDER OF THE GROUNDING ELECTRODE. IF RESISTANCE IS GREATER THAN 5 OHMS, DRIVE ADDITIONAL GROUND RODS TO ACHIEVE 5 OHMS OR LESS.
- EFFECTIVELY GROUND METAL WATER PIPING, STRUCTURAL STEEL, UFER GROUNDS, COUNTERPOISE AND GROUND RODS SHALL BE CONNECTED TO FORM THE GROUNDING ELECTRODE IN ACCORDANCE WITH NEC 250. PROVIDE THE GROUNDING ELECTRODE CONDUCTOR IN ACCORDANCE WITH NEC 250.
- EQUIPMENT GROUND CONDUCTORS SHALL BE INSULATED AND HAVE A CONTINUOUS OUTER FINISH THAT IS GREEN. EQUIPMENT GROUNDING CONDUCTORS LARGER THAN #6AWG SHALL BE PERMITTED TO BE PERMANENTLY IDENTIFIED AT ONLY THOSE POINTS WHERE THE CONDUCTOR IS ACCESSIBLE.



Project Documents for:



Project:
 FLEET CANOPY

Issue	Date & Issue Description	Drawn By	Checked By
08.25.17	BID/PERMIT SET	JUB	JLM

• SPACE PLANNING

• INTERIOR DESIGN

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET 5th FLOOR
 ORLANDO, FL 32801

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
JUB	PERMIT/BID SET
Checked By	Scale
JLM	

File Name
 Q:\project files\2017\2017-139 adc oc fleet canopy\Drawings\1600-E201-2017139.dwg

Consultant • Seal/Signature

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Sheet Title:

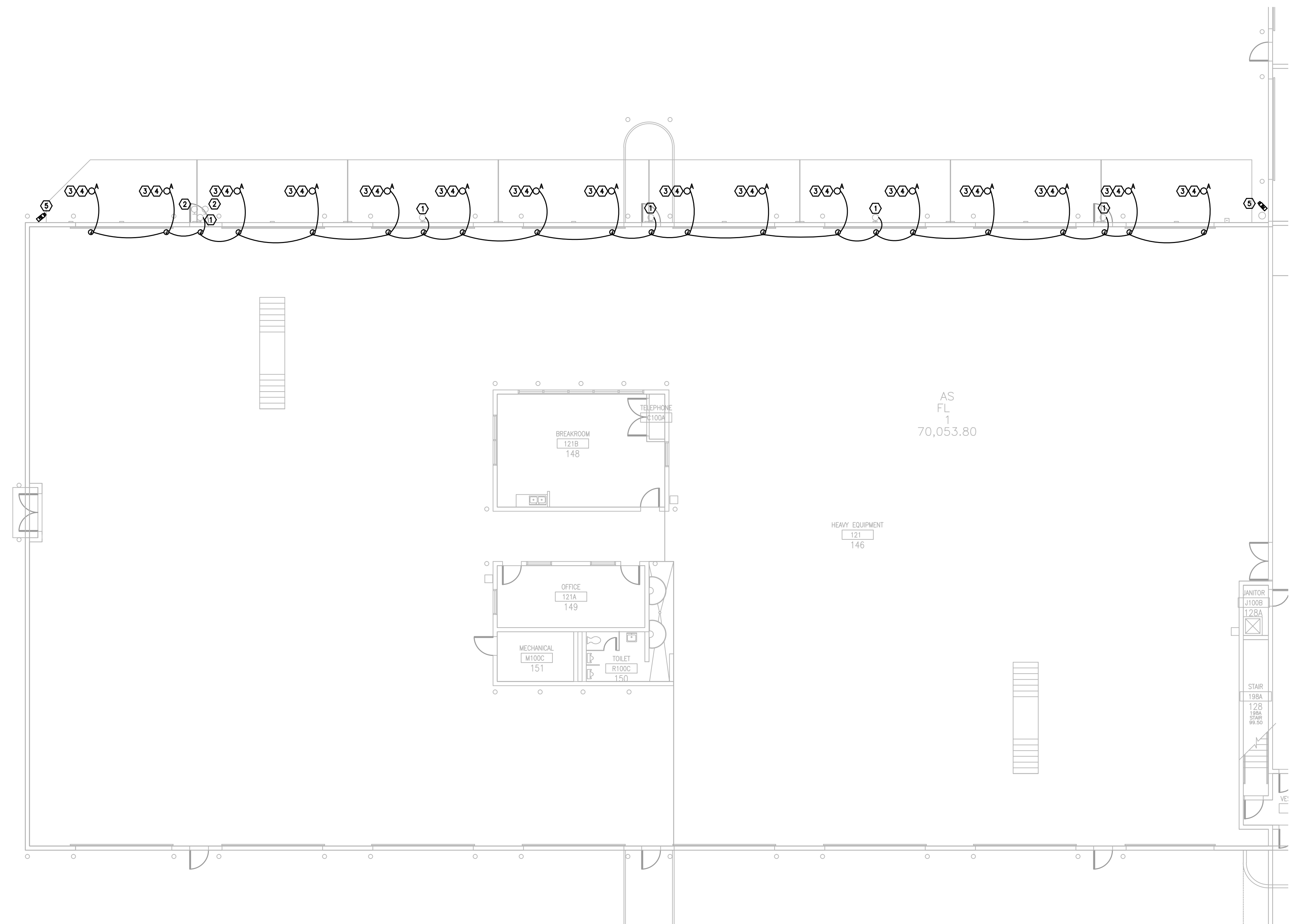
ELECTRICAL PLAN

GENERAL NOTES:

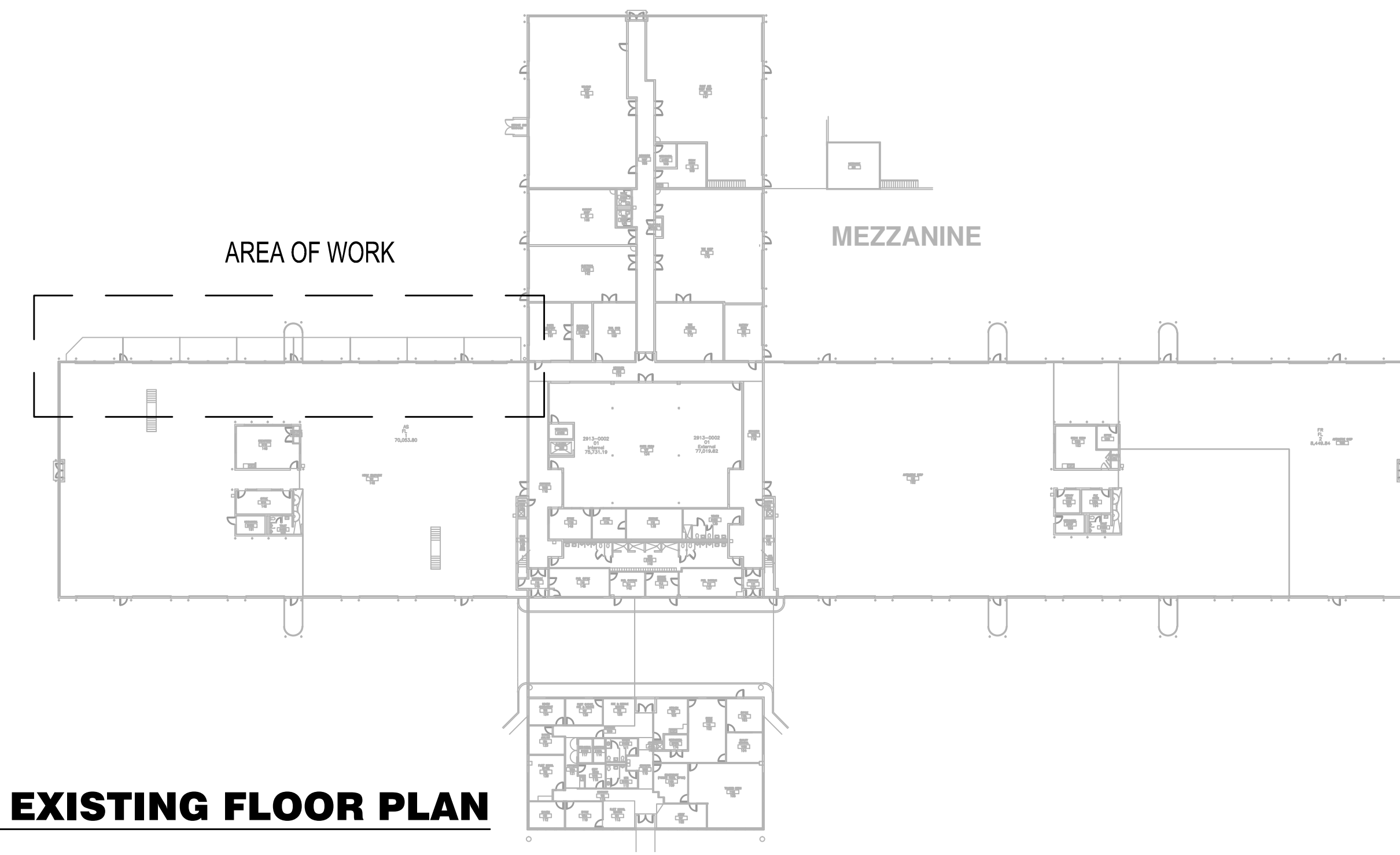
- REFER TO SYMBOL LEGEND ON DRAWING E-001.
- REFER TO SPECIFICATIONS MANUAL.
- PROVIDE MINIMUM #10 CU CONDUCTORS.
- BRANCH CIRCUIT CONDUCTORS ARE DESIGNED IN ACCORDANCE WITH FBC FLORIDA CONSERVATION 2014 FIFTH EDITION, C505.73. BRANCH CIRCUITS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.
- ELECTRICAL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 FLORIDA BUILDING CODE 2014 FIFTH EDITION
 NFPA 70 NATIONAL ELECTRICAL CODE 2011 EDITION

PLAN KEY NOTES:

- REMOVE EXISTING 150 WATT WALL MOUNTED (LED) LIGHT FIXTURE, TURN OVER TO OC FACILITIES AND PATCH WALL. PULL EXISTING CONDUCTORS BACK TO NEXT JUNCTION BOX INSIDE BUILDING AND CAP OFF.
- EXISTING FLOOD LIGHTS TO REMAIN, RE-AIM AS REQUIRED BY OWNER AFTER CANOPY IS INSTALLED.
- MOUNT NEW FIXTURE TO BOTTOM OF CANOPY, COORDINATE MOUNTING METHOD WITH CANOPY INSTALLER AND SHOP DRAWINGS FOR PROPER PENETRATION AND HARDWARE.
- INTERCEPT EXISTING 150 WATT WALL MOUNTED LIGHT FIXTURE. CIRCUIT AND EXTEND TO NEW CANOPY MOUNTED FIXTURE. CONNECT AS REQUIRED. THE EXISTING CIRCUIT LOAD WILL BE DECREASED BASED ON LED LIGHT FIXTURE REPLACEMENT.
- EXISTING CAMERA TO BE RELOCATED UP TO 25 FEET AS REQUIRED BY OWNER. DISCONNECT CAMERA. INTERCEPT EXISTING CONDUIT AND WIRING AND EXTEND TO NEW LOCATION THAT AVOIDS INTERFERENCE FROM NEW CANOPY. RECONNECT.



ELECTRICAL PLAN
 SCALE: 3/32"=1'-0"
 0 4' 8' 16'



KEYPLAN- EXISTING FLOOR PLAN



Project:
FLEET CANOPY

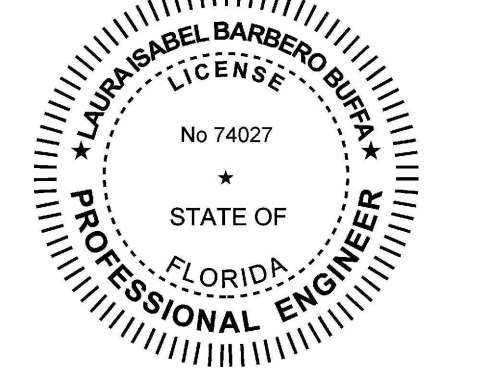
Issue	Date & Issue Description	Drawn By	Checked By
	07.25.17	60% CD SET	MR LBB
	08.25.17	BID/PERMIT SET	MR LBB

Client Information
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ORLANDO, FL 32801

Project Number	Issue Date
17007	08/25/2017
Drawn By	Project Status
MR	PERMIT/BID SET
Checked By	Scale
LBB	

File Name

Consultant • Seal/Signature



Laura Isabel Barbero Buffa
FLORIDA PE 74027

Sheet Title:

DESIGN CRITERIA & NOTES



CERTIFICATE OF AUTHORIZATION No. 27343
LAURA BARBERO-BUFFA, P.E. No. 74027

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S0.01

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT

- I. GENERAL
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
 - STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
 - ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
 - THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF FLORIDA VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.
 - IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS AS INDICATED BY THE ENGINEER SHALL GOVERN.
 - THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. THE COMPLETED LATERAL-FORCE RESISTING SYSTEMS AND DIAPHRAGMS ARE REQUIRED FOR THE STRUCTURE TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER. THIS ALSO INCLUDES NECESSARY SHORING, SHEETING, GUYS OR TIE DOWNS.
 - UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS. DETAILS LABELED TYPICAL DETAILS ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE SIMILAR OR SAME TO THOSE SPECIFICALLY DETAILED. CONTRACTOR TO REVIEW SIMILAR LOCATIONS AND INCLUDE ANY REQUIRED MODIFICATIONS IN BID. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
 - BASE CONSULTANTS, INC. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSION OF THE CONTRACTOR OR FOR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - PERIODIC SITE OBSERVATION BY BASE CONSULTANTS, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS AND IS NOT EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
 - ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND FOR STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
 - REFER TO SPECIFICATION SECTION 01.31 "PRODUCTS SUBSTITUTIONS" FOR SUBSTITUTION PROCEDURES. BASE CONSULTANTS, INC. RETAINS THE RIGHT TO REJECT ANY SUBSTITUTION REQUESTS.
 - ALL MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF CONSTRUCTION.
 - CONTRACTOR TO ISSUE REQUEST FOR INFORMATION (RFI) FOR ANY INFORMATION NOT CLEAR, NOT SHOWN IN THE DRAWINGS.
 - DO NOT SCALE DRAWINGS.
 - STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WINDOW WALL SYSTEMS, PRECAST, COLD FORMED METAL FRAMING OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
 - NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY ENGINEER OF RECORD FOR THE REVIEW.
 - ANY TEXT CALLOUTS OR NOTES SHOWN ON PLANS OR DETAILS SUPERCEED ANY DRAWN ELEMENTS.
 - ANY ITEM CALLED OUT ON PLAN SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE EVEN IF IT DOES NOT HAVE AN ACCOMPANYING DETAIL.
- II. DESIGN CRITERIA
- THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.
 - DESIGN WIND LOADS FOR STRENGTH DESIGN WITH A LOAD FACTOR OF 1.00
 - ULTIMATE WIND SPEED 130 MPH
 - EXPOSURE C
 - RISK CATEGORY II
 - INTERNAL PRESSURE COEFFICIENT ±0.10
 - COMPONENTS AND CLADDING WIND LOADS - SEE ATTACHED WIND PLAN
 - CORNER AND EDGE ZONES ARE 10 FEET WIDE.

- III. SPECIALITY ENGINEERING REQUIREMENTS
- THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS IN ACCORDANCE WITH RULE 21H-1.003. CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF A SPECIALTY ENGINEER FOR THE DESIGN OF THOSE COMPONENTS.
- IV. SUBMITTALS
- THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 - GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING APPROVAL STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.
 - THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW
 - PREFABRICATED CANOPY STRUCTURE
 - ITEMS MARKED SHALL HAVE SHOP DRAWINGS AND DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.
 - THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
 - THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
 - REQUEST FOR INFORMATION (RFI) SHALL BE ORIGINATE BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER VIA ARCHITECT OR DIRECTLY TO ENGINEER WHEN APPROVED BY ARCHITECT. RFI SHALL BE SUBMITTED IN A PROMPT MANNER TO AVOID DELAYS IN THE CONTRACTORS WORK.
 - RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR CONFLICT WITH APPLICABLE STANDARDS OR CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DESIGN TEAM IMMEDIATELY MANY PERCEIVED COST, SCHEDULE OR SCOPE IMPACTS.



CANOPY WIND PRESSURE PLAN

TRIBUTARY AREA	ZONE		
	1	2	3
(S.F.)	(PSF)	(PSF)	(PSF)
≤10	28.13	28.13	28.13
	-44.68	-77.77	-115.00
20	25.64	25.64	25.64
	-43.43	-71.55	-107.53
50	21.92	21.92	21.92
	-41.57	-62.26	-96.39
>100	19.86	19.86	19.86
	-40.54	-57.09	-90.18

COMPONENTS AND CLADDING
ULTIMATE WIND PRESSURES

TRIBUTARY AREA	ZONE		
	1	2	3
(S.F.)	(PSF)	(PSF)	(PSF)
≤10	16.88	16.88	16.88
	-26.81	-46.66	-69.00
20	15.38	15.38	15.38
	-26.06	-42.93	-64.52
50	13.15	13.15	13.15
	-24.94	-37.35	-57.83
>100	11.91	11.91	11.91
	-24.32	-39.25	-54.11

COMPONENTS AND CLADDING
NOMINAL WIND PRESSURES

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