

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

ORANGE COUNTY COURTHOUSE
 EXTERIOR BUILDING PROTECTION MODIFICATIONS
 425 N. ORANGE AVE,
 ORLANDO, FL, 32801

ORANGE COUNTY PROJECT MANAGER: JACK DAVIS

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

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

Orange County Courthouse



Orange County Courthouse



CONSTRUCTION ISSUE SET
 JULY 13th, 2017

ARCHITECTURAL ABBREVIATIONS

A	ACCES ACCESSORY ACOUS ACOUSTIC(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)(ING) 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)(ING)(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(ATION) CONTR CONTRACT(OR) COV COVER CMU CONCRETE MASONRY UNIT	I	INFO INFORMATION INSTRUM INSTRUMENT(ATION) 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)(ING) ENGR ENGINEER(ED) ENR ENTRANCE EQ EQUAL EQUIP EQUIPMENT EXIST EXISTING EXP JT EXPANSION JOINT EXPS EXPOSE(D) EXT EXTERIOR	K	KIT KITCHEN	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	L	LAV LAVATORY LB POUND £ BRITISH POUND (CURRENCY) LT LIGHT LVLG LEVELING LVR LOUVER	W	W/ WITH WC WATER CLOSET WD WOOD WDW WINDOW W/O WITHOUT WT WEIGHT WTRPRF WATERPROOFING
		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(IZED) MTD MOUNTED		
		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

- ORANGE COUNTY FACILITIES IS LOOKING TO INSTALL A BIRD DETERRENT SYSTEM ON MULTIPLE FLOORS TO AVOID THE PRESENCE OF TURKEY VULTURES ON THE BALCONIES AND ROOF OF THE BUILDING.
- REPAIRS TO DAMAGED CAULK JOINTS ON BUILDING FACADE.
- THE MAIN SYSTEMS PROPOSED IS:
 - ELECTRIFIED TRACK SYSTEM BIRD DETERRENT
- THE PROJECT SCOPE DOES NOT INCLUDE THE REMOVAL OF THE EXISTING BIRD DETERRENT SYSTEM.

SCOPE OF WORK NOTES:

- WORK THAT IS NOT STATED HEREIN NOR SHOWN IN THESE PLANS IS NOT PART OF THE SCOPE OF WORK FOR THIS PROJECT.
- 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.
- ALL BIDS SHOULD INCLUDE MANUFACTURE'S WARRANTIES FOR A MINIMUM OF 5 YEARS AND INCLUDE A 5-YEAR MAINTENANCE PROGRAM TO BEGIN AT NOTICE OF SUBSTANTIAL COMPLETION
- FOR PURPOSE OF BID USE ESTIMATED QUANTITY OF 150 LINEAR FEET FOR REPAIR OF JOINTS (LUMP SUM). PHOTO DOCUMENTATION OF DAMAGED AREAS SHOULD BE PROVIDED BEFORE ANY CHANGE ORDER.
- THE PROPOSED SYSTEM MUST BE EFFECTIVE AGAINST TURKEY VULTURES, BUT ALSO EFFECTIVE FOR OTHER BIRD SPECIES.
- THE ARCHITECTURAL FEATURES AND ESTHETICS OF THE BUILDING SHOULD NOT BE ALTERED.
- THE INSTALLATION METHODS SHOULD AVOID PERFORATION OF THE LEDGES AND ROOF SURFACES. THE INSTALLATION OF BIRD BARRIER COMPONENTS SHOULD BE CHEMICALLY ATTACHED, PER SPECIFICATIONS, TO MINIMIZE PENETRATIONS.
- A GROUND PENETRATING RADAR (GPR) SCAN SHALL BE PERFORMED PRIOR TO ANY CORE DRILLING TO ENSURE NO DAMAGE OCCURS TO POST-TENSION CABLES

NOTE TO CONTRACTOR

THE BUILDING WILL REMAIN IN OPERATION DURING CONSTRUCTION.

NIGHT SHIFT WORK MAY BE REQUIRED TO ROUTE CIRCUITS TROUGH EXISTING OFFICES ETC.

CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.

PROJECT INFORMATION

DRAWING INDEX

ARCHITECTURAL

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A02.22	FLOOR PLAN LEVEL 22
A02.23	FLOOR PLAN LEVEL 23
A02.24.5	FLOOR PLAN LEVEL 24-1/2
A03.01	ROOF PLAN
A09.21	DETAILS
A09.22	SITE PICTURES

ELECTRICAL

E00.00	SYMBOL LEGEND
E02.21	ELECTRICAL FLOOR PLAN LEVEL 21
E02.22	ELECTRICAL FLOOR PLAN LEVEL 22
E02.23	ELECTRICAL FLOOR PLAN LEVEL 23
E02.24.5	ELECTRICAL FLOOR PLAN LEVEL 24-1/2
E03.01	ELECTRICAL ROOF PLAN
E09.01	ELECTRICAL DETAILS
E09.02	ELECTRICAL PANEL SCHEDULES

ADC

ARCHITECTURAL DESIGN COLLABORATIVE
945 N. PENNSYLVANIA AVENUE
WINTER PARK, FLORIDA 32789
OFFICE: (407) 629-1188
FAX: (407) 388-1200
WWW.ADCINTERNATIONAL.NET



STATE OF FLORIDA
MARIA FERREIRA, R.A. AA-C001315
Architect • Seal/Signature AR-95752

Project Documents for:



Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL, 32801

Issue	Date	Issue Description	By	Check
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5	05.22.17	90% CD REVIEW SET	AA	KA
6	07.13.17	100% CD	AA	KA
7	09.15.17	100% CD REV-01	AA	KA

SPACE PLANNING

Issue	Date	Issue Description	By	Check
△	06/23/17	ADDENDUM 1	AA	JP
△	07/13/17	PROCUREMENT COMMENTS	AA	JP
△	09/15/17	PROCUREMENT COMMENTS	AA	JP

INTERIOR DESIGN

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

PLANNING

Project Number	Issue Date
16325	03/27/2017
Drawn By	Project Status
AA	CONCEPT DESIGN
Checked By	Scale
KA	

ARCHITECTURE

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Sheet Title:

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A00.00

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PLANNING

• SPACE PLANNING

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ORLANDO, FL 32801

ARCHITECTURE

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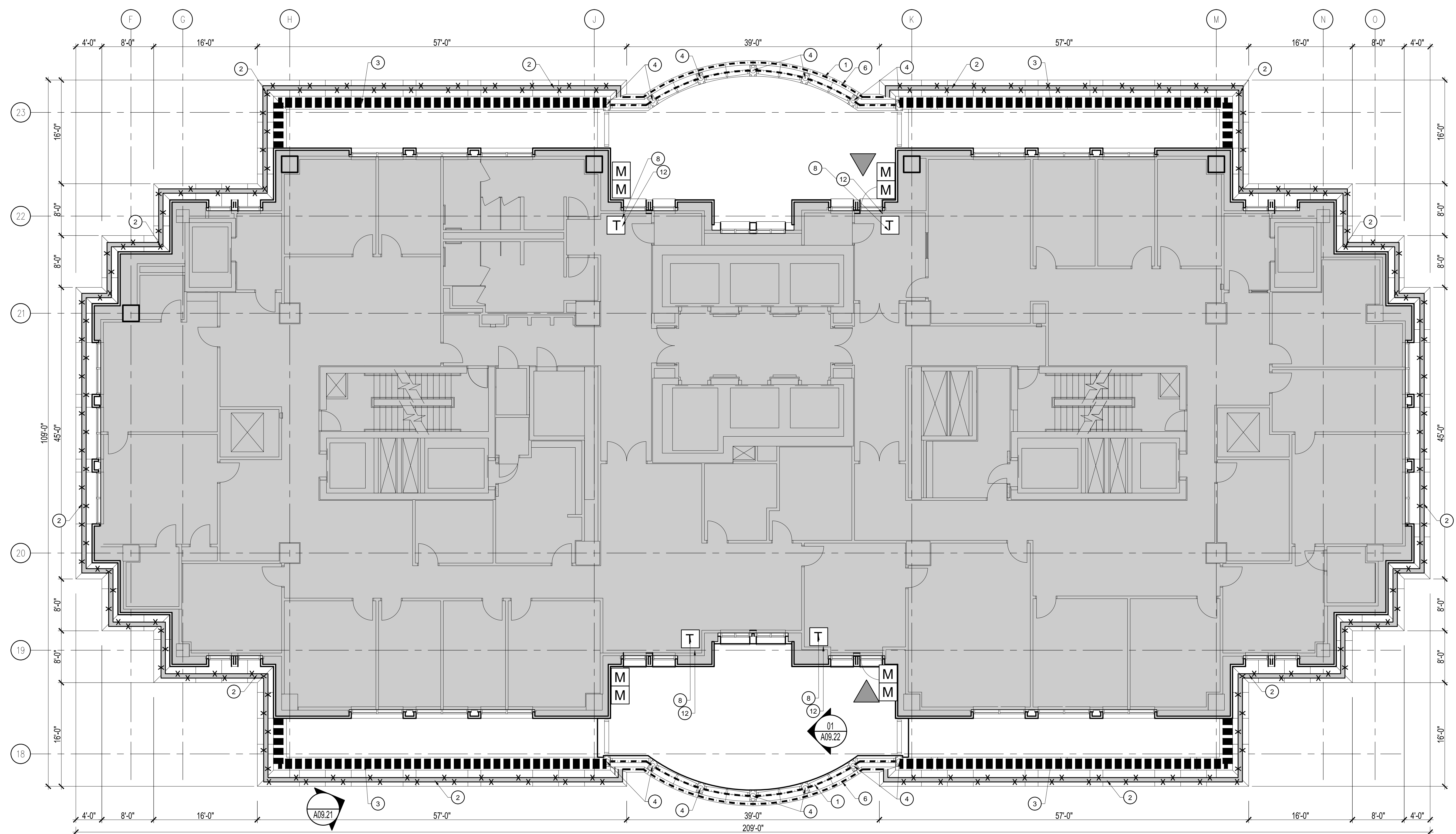
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FLOOR PLAN
LEVEL 21

A02.21
CONSTRUCTION ISSUE SET
JULY 13th, 2017



KEY NOTES

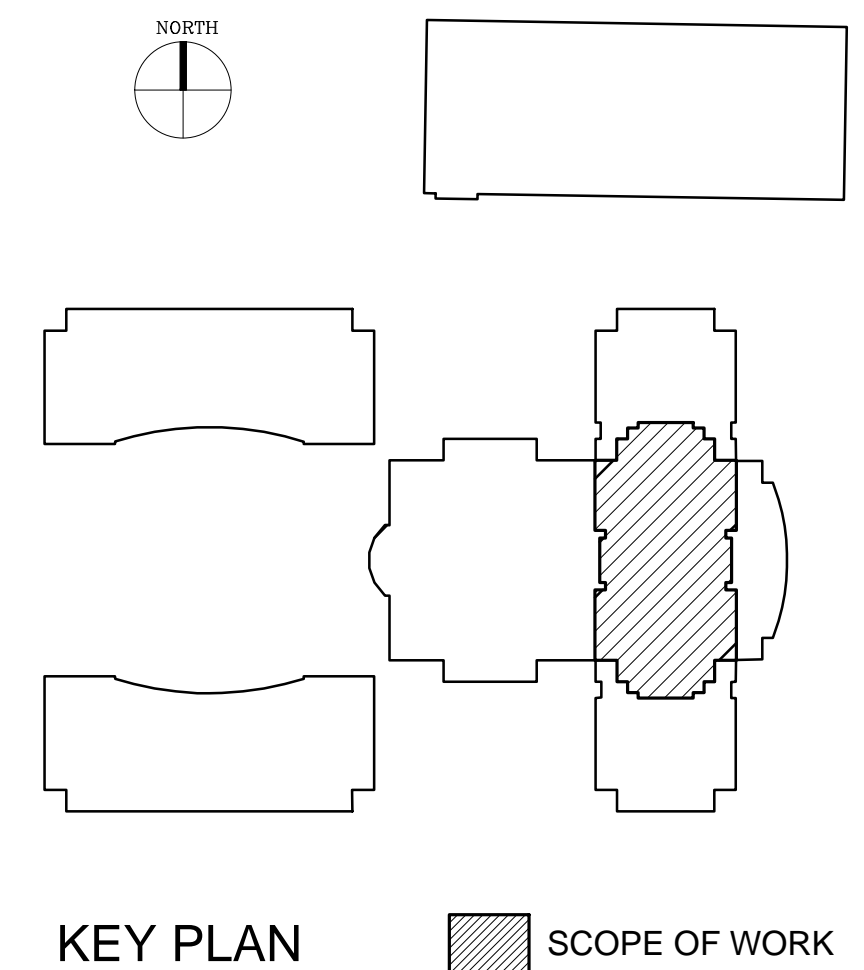
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE STEEL BALCONY GRILLES
- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE BALCONY CORNICE
- 3 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE PARAPET
- 4 ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE LIGHT FIXTURES
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF PARAPET
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE CORNICE
- LOCATION FOR ELECTRICAL TRACK CHARGER. SEE ELECTRICAL ENGINEER.
- 6 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON THE TOP OF THE ROOF
- SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION. PATCH WALLS, CEILING, FLOORING AND BASE AS REQUIRED TO MATCH EXISTING. DISPOSE OFF SITE.

GRAPHIC SYMBOLS

- 3 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- HEIGHT OF INSTALLATION ABOVE BALCONY FLOOR
- DOOR TO ACCESS BALCONIES
- BIRD DETERRENT SYSTEM PANEL (CHARGER) FOR TRACKS. AS SPECIFIED BY BIRD DETERRENT SYSTEM INSTALLER.
- BIRD DETERRENT SYSTEM CELLULAR TRACK MONITOR FOR TRACKS. AS SPECIFIED BY BIRD DETERRENT SYSTEM INSTALLER.
- SITE PICTURES AND ISOMETRIC

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Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL, 32801

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• SPACE PLANNING
• INTERIOR DESIGN

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

Project Number: 16325
Issue Date: 03/27/2017
Drawn By: AA
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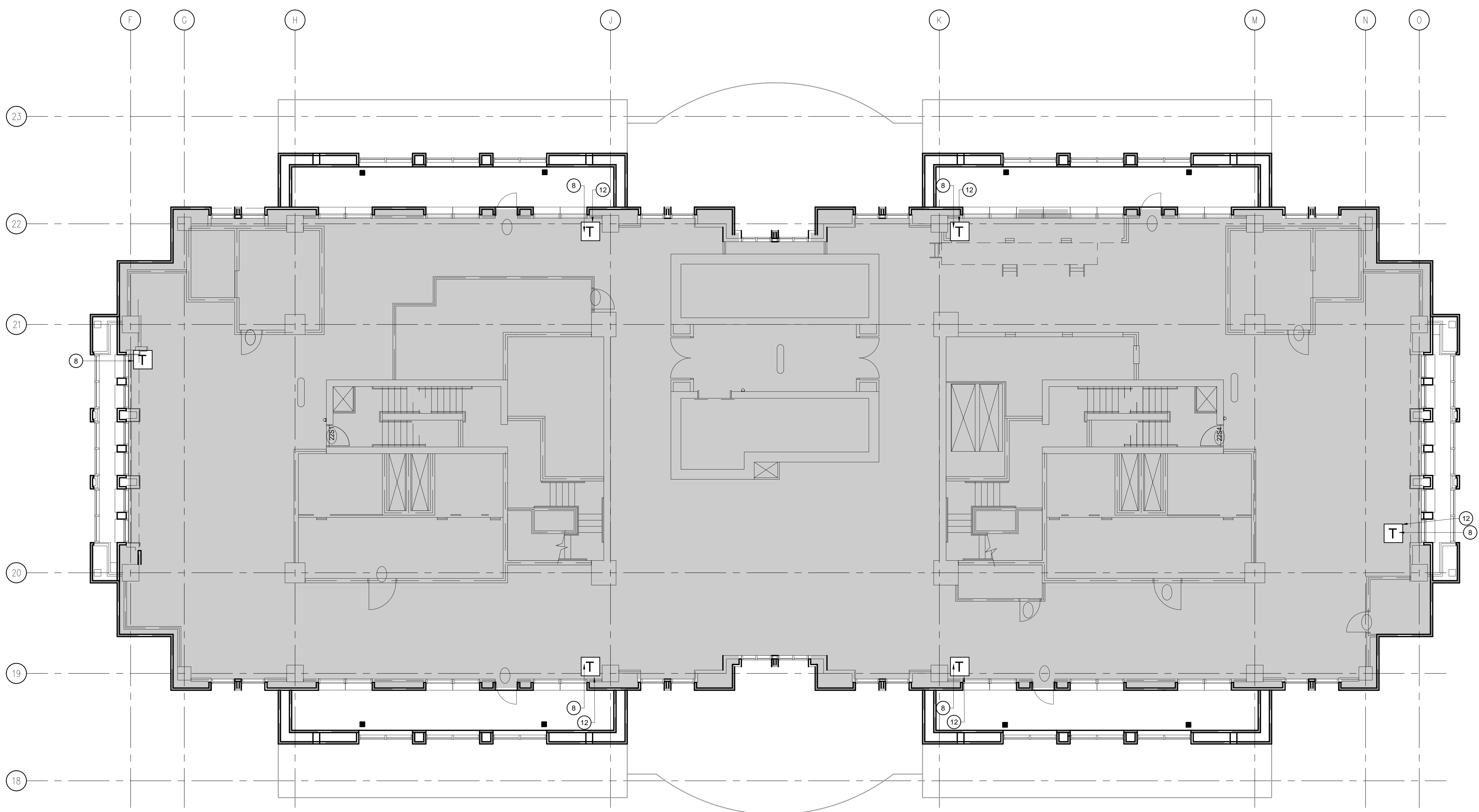
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Sheet Title:

FLOOR PLAN
LEVEL 22

A02.22
CONSTRUCTION ISSUE SET
JULY 13th, 2017



KEY NOTES

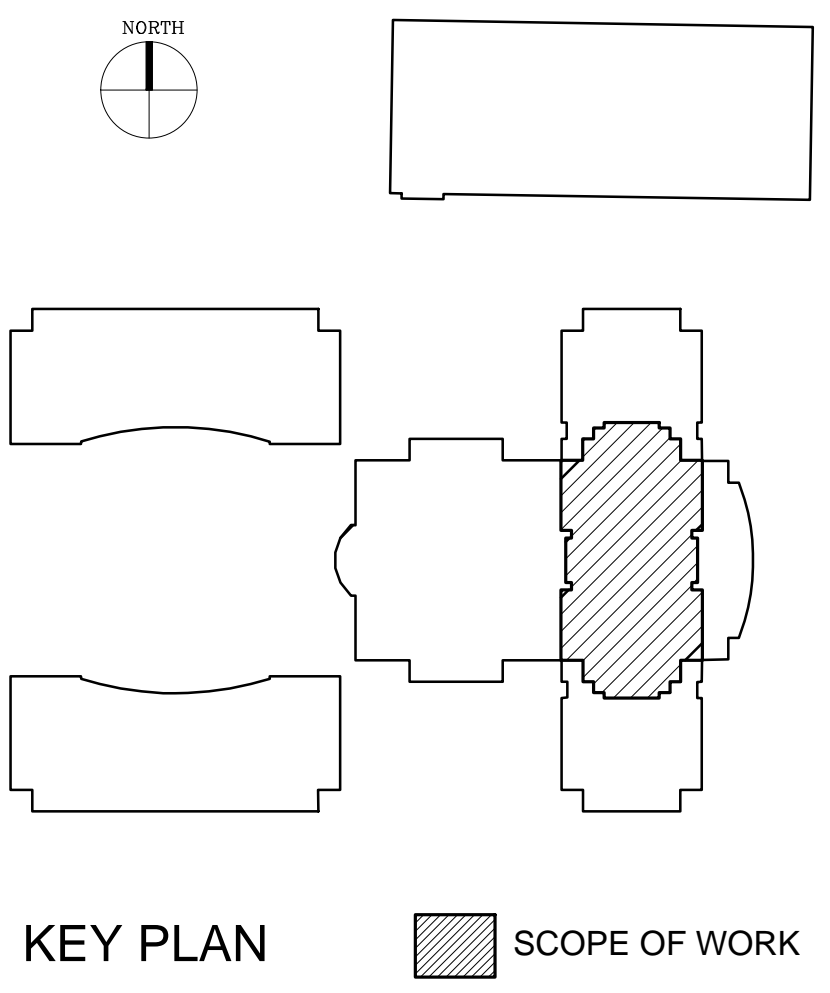
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- 8 LOCATION FOR ELECTRICAL TRACK CHARGER. SEE ELECTRICAL ENGINEER.
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- XX XXX SITE PICTURES AND ISOMETRIC

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BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
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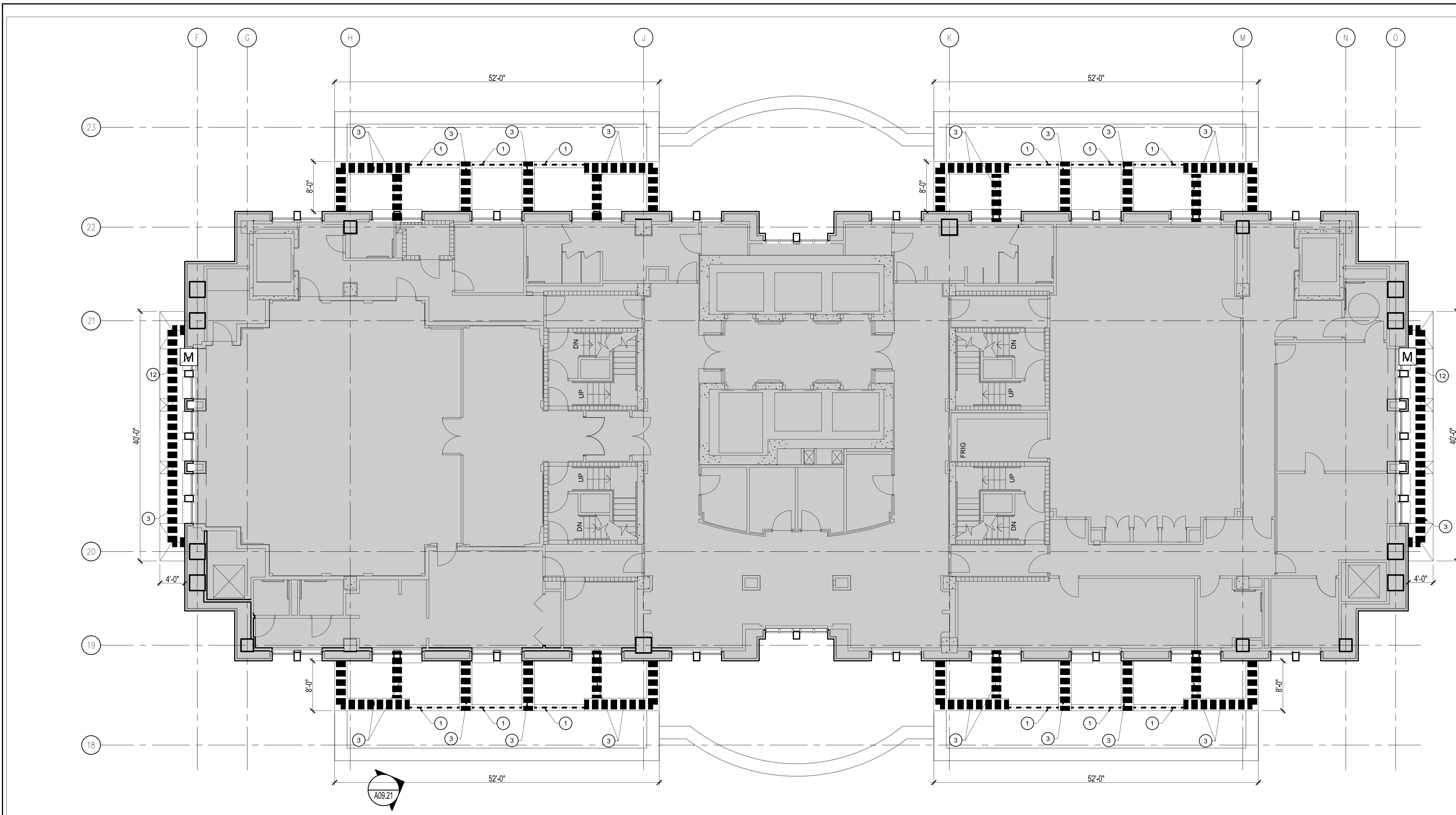
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Sheet Title:
FLOOR PLAN
LEVEL 23

A02.23
CONSTRUCTION ISSUE SET
JULY 13th, 2017



KEY NOTES

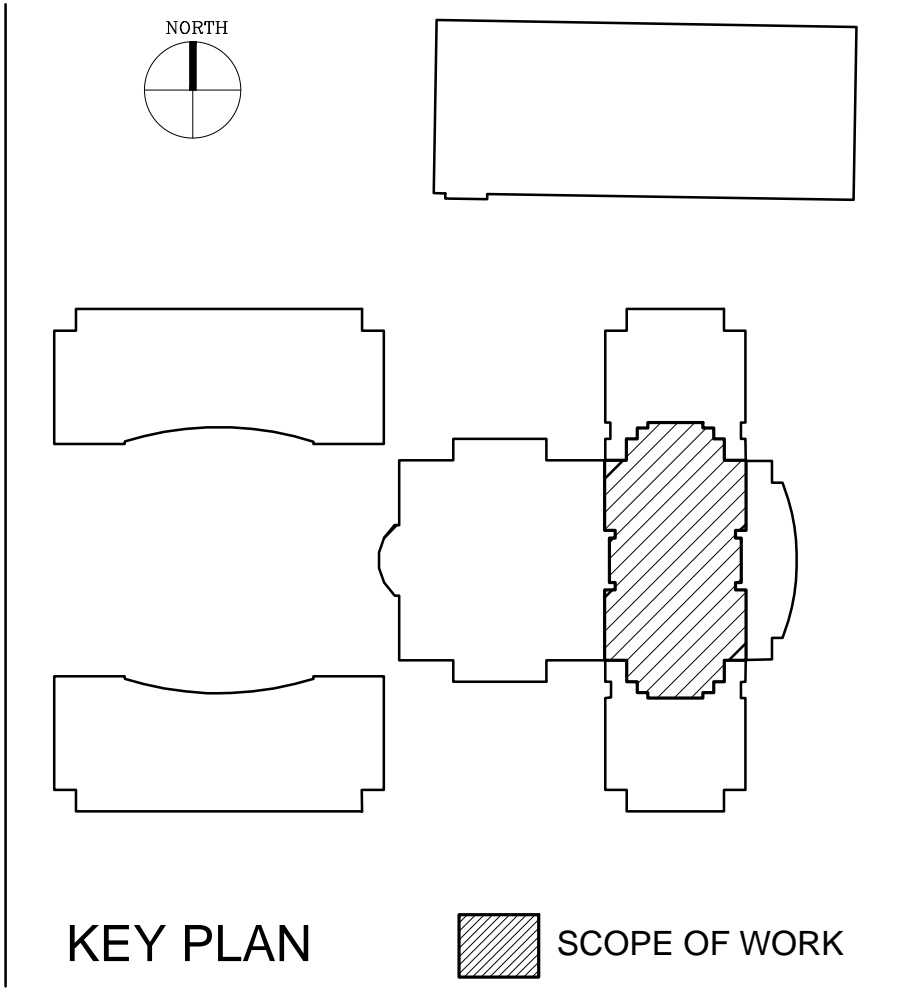
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KEY PLAN SCOPE OF WORK

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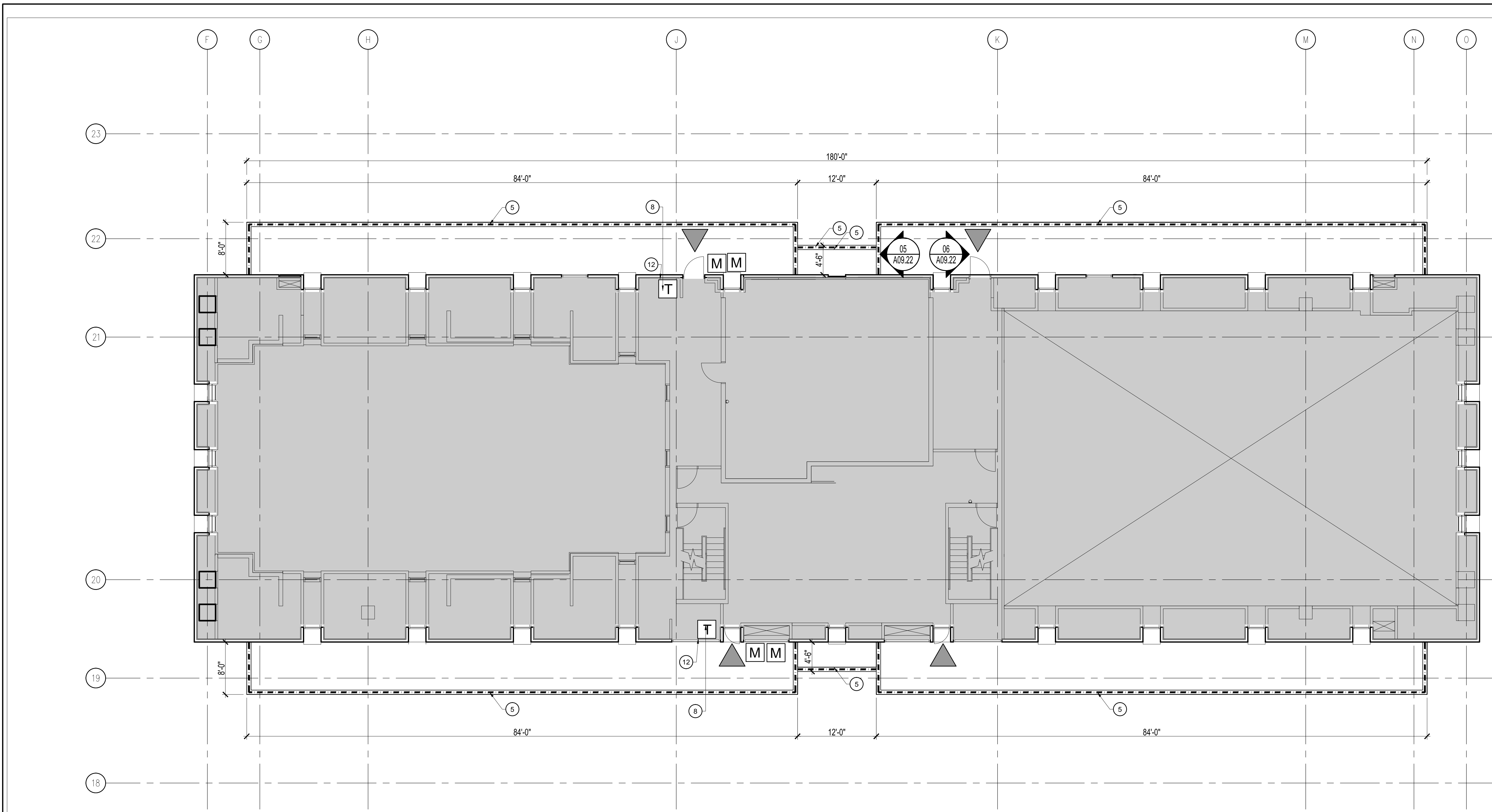
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Sheet Title:
FLOOR PLAN
LEVEL 24-1/2

A02.24.5
CONSTRUCTION ISSUE SET
JULY 13th, 2017



KEY NOTES

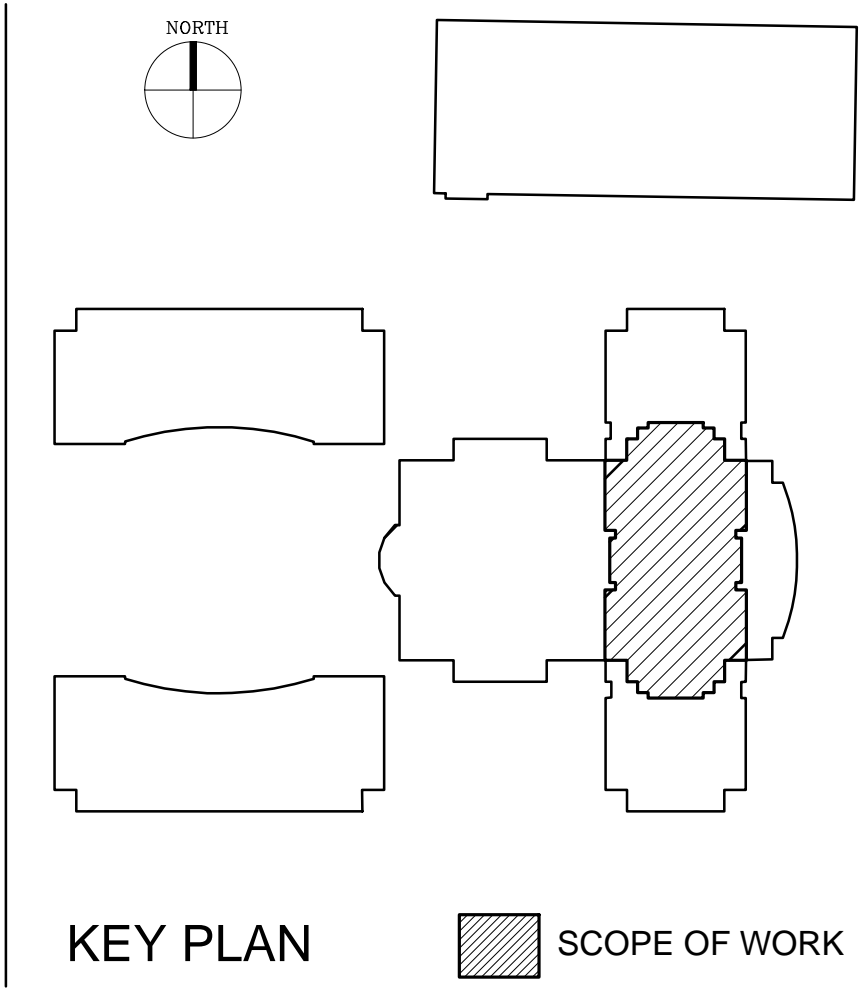
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE STEEL BALCONY GRILLES
- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE BALCONY CORNICE
- 3 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE PARAPET
- ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE LIGHT FIXTURES
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF PARAPET
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE CORNICE
- LOCATION FOR ELECTRICAL TRACK CHARGER. SEE ELECTRICAL ENGINEER.
- 6 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON THE TOP OF THE ROOF
- ROOF PATCH
- SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION. PATCH WALLS, CEILING, FLOORING AND BASE AS REQUIRED TO MATCH EXISTING. DISPOSE OFF SITE.

GRAPHIC SYMBOLS

- 3 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- 1 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
- X'-X" HEIGHT OF INSTALLATION ABOVE BALCONY FLOOR
- DOOR TO ACCESS BALCONIES
- T BIRD DETERRENT SYSTEM PANEL (CHARGER) FOR TRACKS. AS SPECIFIED BY BIRD DETERRENT SYSTEM INSTALLER.
- M BIRD DETERRENT SYSTEM CELLULAR TRACK MONITOR FOR TRACKS. AS SPECIFIED BY BIRD DETERRENT SYSTEM INSTALLER.
- XX XXX SITE PICTURES AND ISOMETRIC

SHEET NOTES

- a. THE INSTALLATION METHODS SHOULD AVOID PERFORATION OF THE LEDGES AND ROOF SURFACES. THE INSTALLATION OF BIRD BARRIER COMPONENTS SHOULD BE CHEMICALLY ATTACHED, PER SPECIFICATIONS, TO MINIMIZE PENETRATIONS.
- b. THE PROPOSED SYSTEM MUST BE EFFECTIVE AGAINST TURKEY VULTURES, BUT ALSO EFFECTIVE FOR OTHER BIRD SPECIES.
- c. THE PROJECT SCOPE DOES NOT INCLUDE THE REMOVAL OF THE EXISTING BIRD DETERRENT SYSTEM.
- d. LEVEL 23 DOES NOT HAVE ACCESS TO THE PARAPETS ON THE SAME FLOOR. ACCESS LOCATED ON LEVEL 22.
- e. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
- f. ALL WORK IDENTIFIED HEREIN SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE LOCAL REQUIREMENTS AND RESTRICTIONS SET FORTH BY ANY LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- g. SELECTIVE DEMOLITION AS REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT SPECIFIED. ANY DEVIATION OR DAMAGE TO THE BUILDINGS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- h. G.C. TO PROVIDE A DUST SCREEN/BARRIER AROUND AREAS OF DEMOLITION AND NEW WORK.
- i. CONTRACTOR IS RESPONSIBLE TO REMOVE AND REINSTALL ALL THE CEILING TILES REQUIRED TO ROUTE CIRCUITS AND TO INSTALL ALL THE NEW INTERIOR ELECTRICAL COMPONENTS.
- j. REMOVAL AND REINSTALLATION OF DRYWALL SHALL BE REQUIRED IN ORDER TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO THE NECESSARY ROOF AREA.
- k. A GROUND PENETRATING RADAR (GPR) SCAN SHALL BE PERFORMED PRIOR TO ANY CORE DRILLING TO ENSURE NO DAMAGE OCCURS TO POST-TENSION CABLES





Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL. 32801

Issue	Date	Issue Description	By	Check
1	03.03.17	30% DESIGN SET	AA	KA
2	04.20.17	90% CD REVIEW SET	AA	KA
3	04.20.17	90% CD REVIEW SET	AA	KA
4	05.17.17	90% CD	AA	KA
5	05.22.17	90% CD REVIEW SET	AA	KA
6	07.13.17	100% CD	AA	KA

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

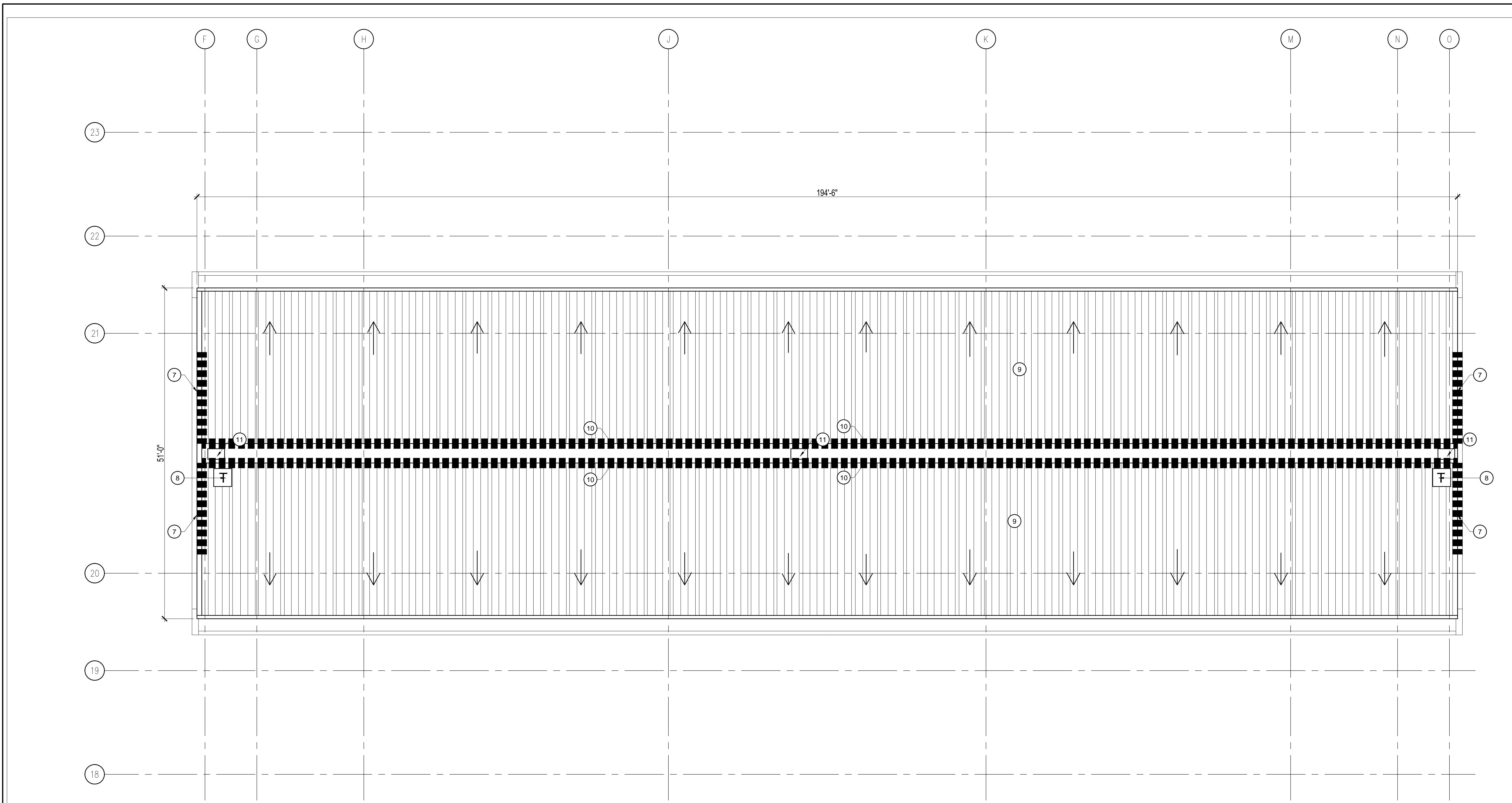
Project Number	Issue Date
16325	03/27/2017
Drawn By	Project Status
AA	CONCEPT DESIGN
Checked By	Scale
KA	1/8"=1'-0"

File Name
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Consultant • Seal/Signature

Sheet Title:
**FLOOR PLAN
ROOF**

A03.01
CONSTRUCTION ISSUE SET
JULY 13th, 2017



KEY NOTES

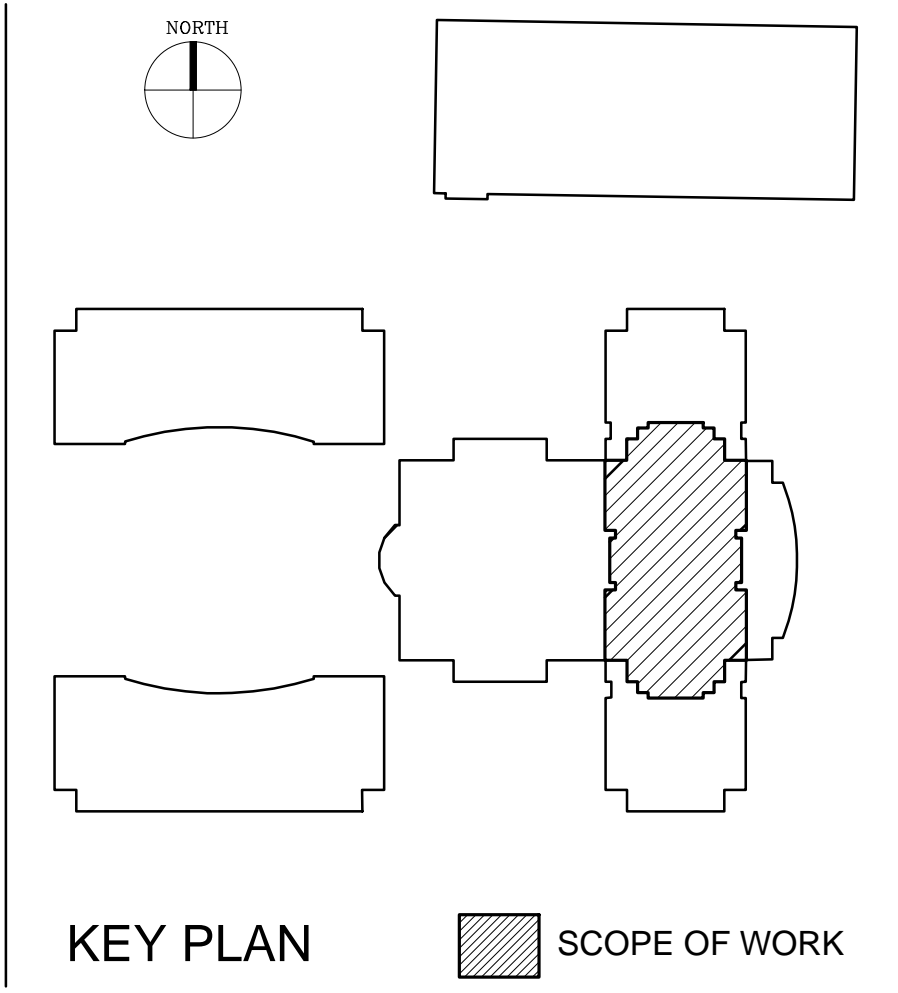
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- ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE LIGHT FIXTURES
- TOP OF PARAPET
- LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE CORNICE
- 3 PARALLELS LINES ON THE SLOPE OF THE CURVED ROOF.
- LOCATION FOR ELECTRICAL TRACK CHARGER. SEE ELECTRICAL ENGINEER.
- CURVED METAL ROOF
- 6 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON THE TOP OF THE ROOF
- ROOF HATCH
- SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION FROM THE EXISTING CORNICE AND PARAPETS REQUIRED TO MATCH EXISTING. DISPOSE OFF SITE.

GRAPHIC SYMBOLS

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- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM
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Project Documents for:



Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL. 32801

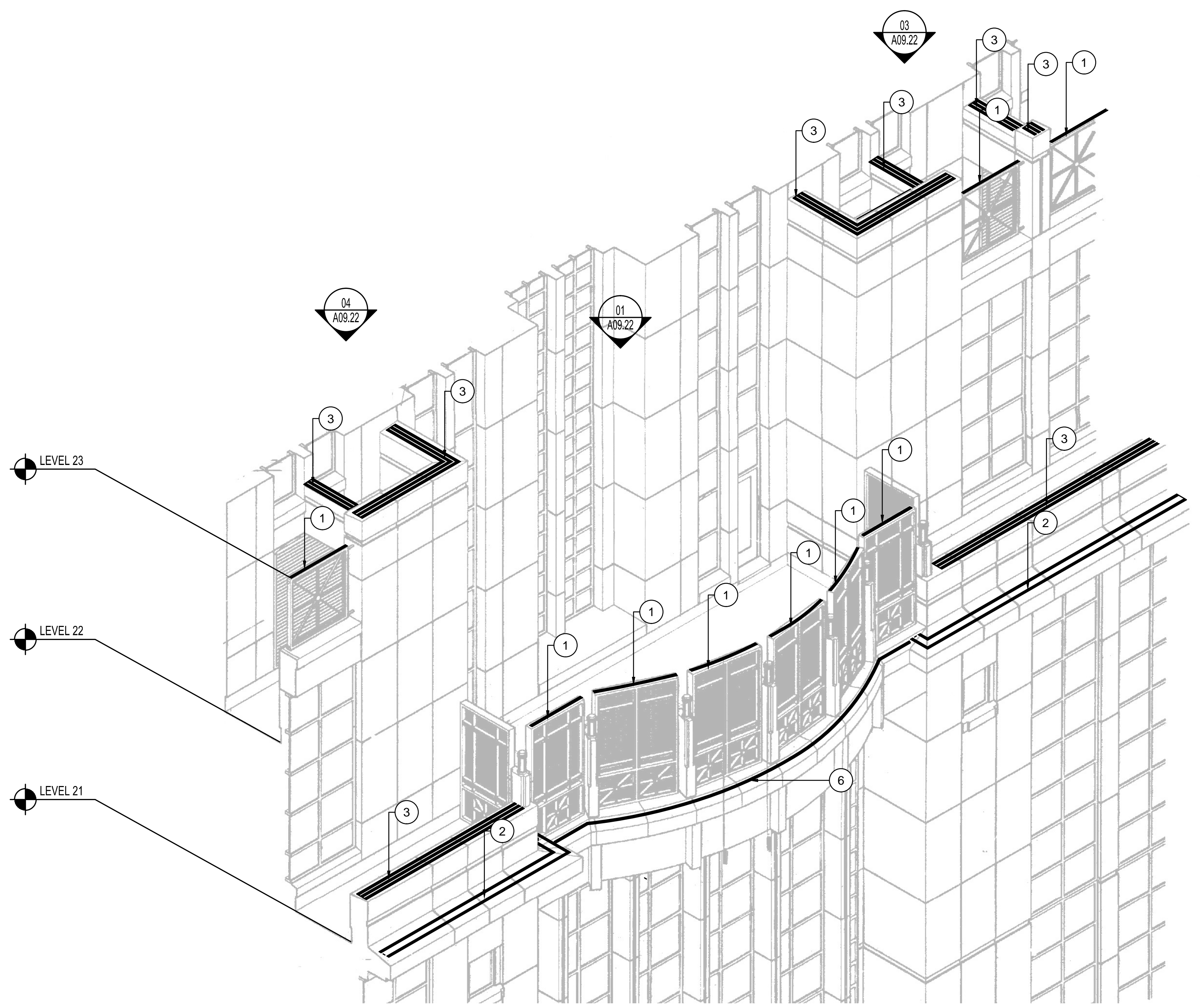
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3	04.20.17	90% CD REVIEW SET	AA	KA
4	05.17.17	90% CD	AA	KA
5	05.22.17	90% CD REVIEW SET	AA	KA
6	07.13.17	100% CD	AA	KA

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

Project Number	Issue Date
16325	03/27/2017
Drawn By	Project Status
AA	CONCEPT DESIGN
Checked By	Scale
KA	

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Consultant • Seal/Signature

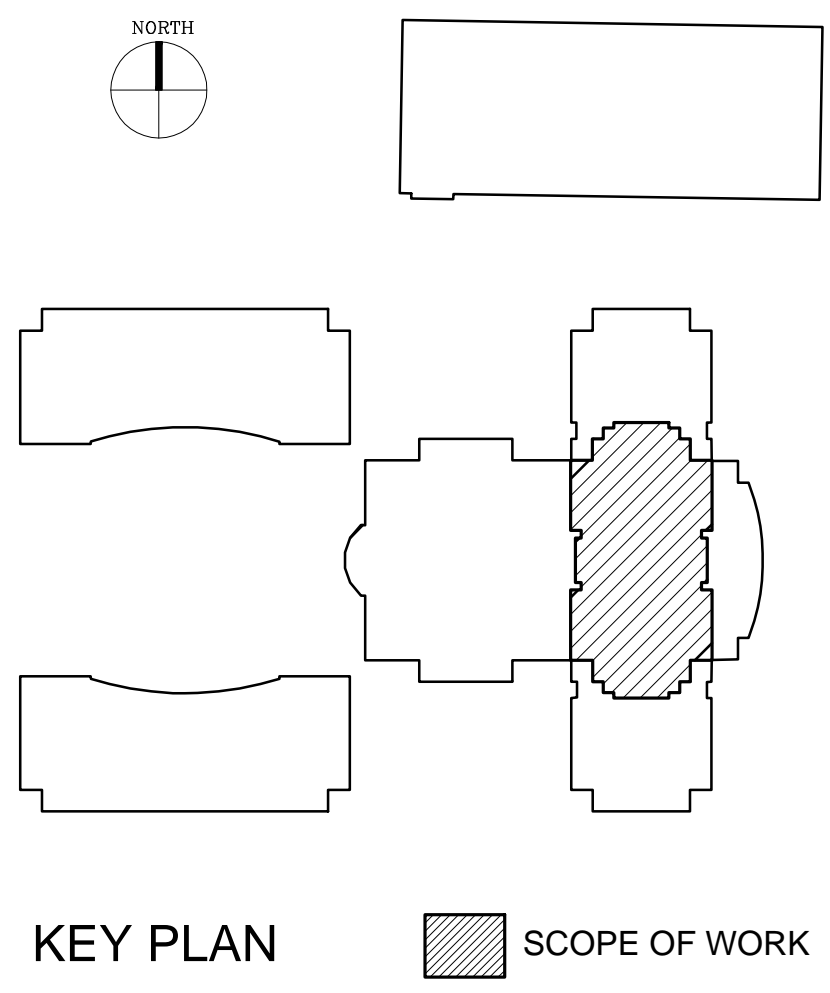


KEY NOTES

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- 2 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE BALCONY CORNICE
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- 5 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF PARAPET
- 6 LINE OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON TOP OF THE CORNICE
- 7 3 PARALLELS LINES ON THE SLOPE OF THE CURVED ROOF.
- 8 LOCATION FOR ELECTRICAL TRACK CHARGER. SEE ELECTRICAL ENGINEER.
- 9 CURVED METAL ROOF
- 6 PARALLEL LINES OF ELECTRIC TRACK BIRD DETERRENT SYSTEM ON THE TOP OF THE ROOF
- 11 ROOF HATCH
- 12 SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION. PATCH WALLS, CEILING, FLOORING AND BASE AS REQUIRED TO MATCH EXISTING. DISPOSE OFF SITE.

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KEY PLAN SCOPE OF WORK

Sheet Title:
ISOMETRIC AND DETAILS

A09.21
CONSTRUCTION ISSUE SET
JULY 13th, 2017



Project Documents for:



Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL. 32801

Issue	Date	Issue Description	By	Check
1	03.03.17	30% DESIGN SET	AA	KA
2	04.20.17	90% CD REVIEW SET	AA	KA
3	04.20.17	90% CD REVIEW SET	AA	KA
4	05.17.17	90% CD	AA	KA
5	05.22.17	90% CD REVIEW SET	AA	KA
6	07.13.17	100% CD	AA	KA

• SPACE PLANNING

• INTERIOR DESIGN

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

Project Number	16325	Issue Date	03/27/2017
Drawn By	AA	Project Status	CONCEPT DESIGN
Checked By	KA	Scale	1/8"=1'-0"

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Consultant • Seal/Signature

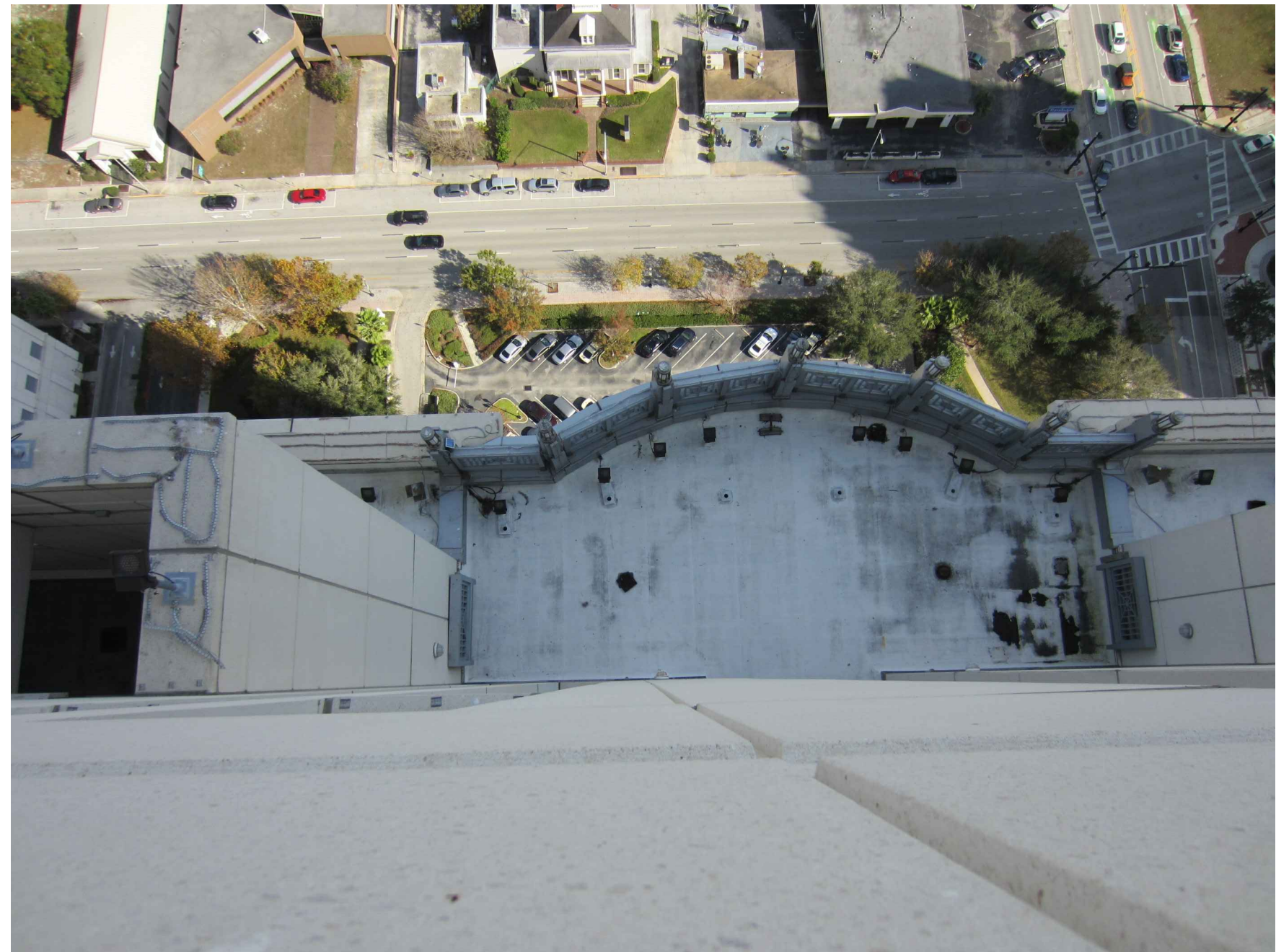
Sheet Title:

SITE PICTURES

A09.22
CONSTRUCTION ISSUE SET
JULY 13th, 2017



01 LEVEL 21
SAME LEVEL VIEW



02 LEVEL 21
AERIAL VIEW



03 LEVEL 23
AERIAL VIEW



04 LEVEL 23
AERIAL VIEW



05 LEVEL 24 1/2
SAME LEVEL VIEW



06 LEVEL 24 1/2
SAME LEVEL VIEW



Project:
ORANGE COUNTRY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
1	04.20.17	90% DESIGN SET	MB/JJB	JLM
2	06.14.17	PERMIT SET	MB/JJB	JLM
3	07.13.17	100% CD	MB/JJB	JLM

• SPACE PLANNING

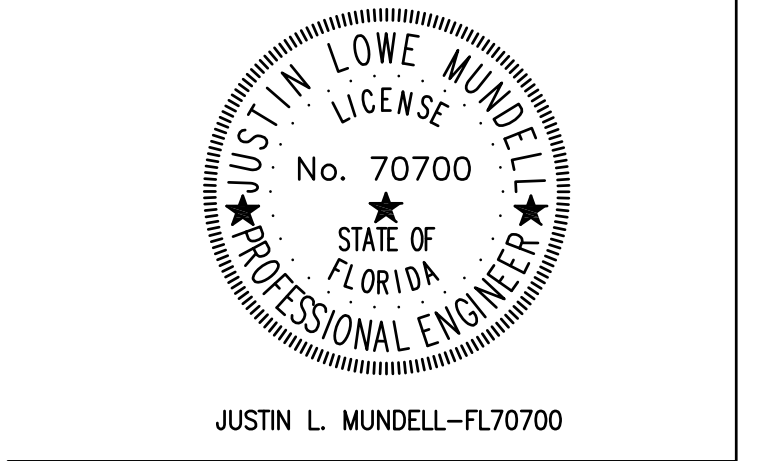
• INTERIOR DESIGN

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

Project Number	Issue Date
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Drawn By	Project Status
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Checked By	Scale
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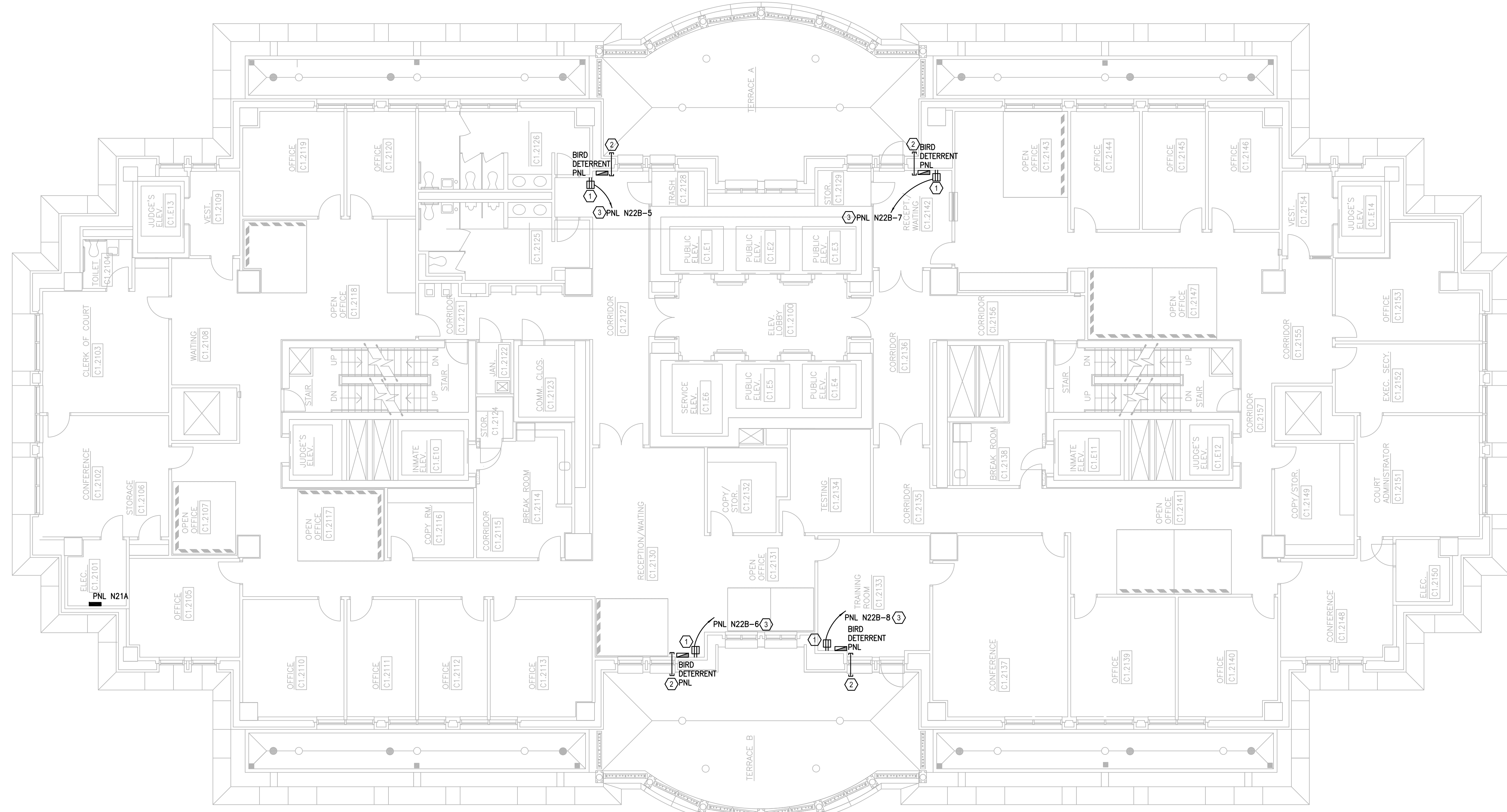
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Consultant • Seal/Signature



Justin L. Mundell-FL70700

Sheet Title:
ELECTRICAL FLOOR PLAN LEVEL 21
E02.21

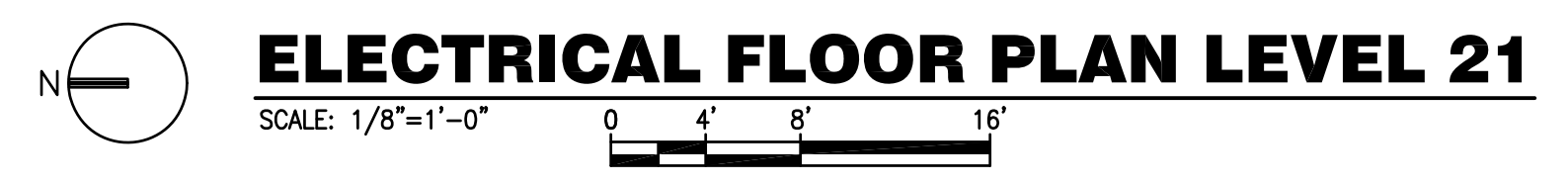


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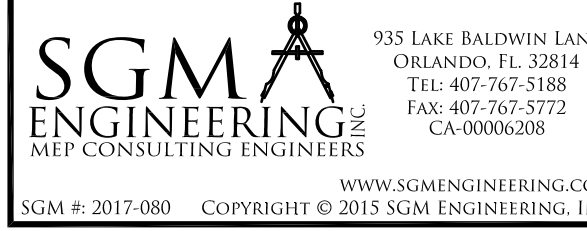
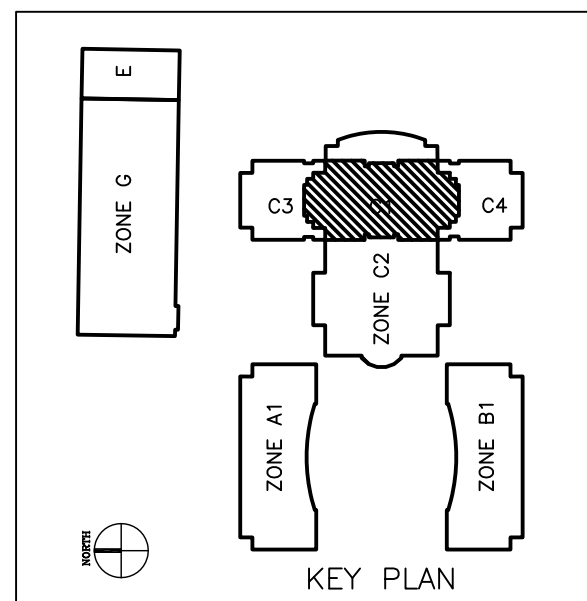
- REFER TO SYMBOL LEGEND ON DRAWING E00.00.
- REFER TO SPECIFICATIONS IN THE PROJECT MANUAL.
- CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.
- NIGHT SHIFT WORK MAY BE REQUIRED TO ROUTE CIRCUITS THROUGH EXISTING OFFICES ETC.

PLAN KEY NOTES:

- PROVIDE NEW GFI OUTLET ABOVE CEILING FOR POWER TO BIRD DETERRENT SYSTEM PANEL PROVIDED BY THE BIRD DETERRENT SYSTEM INSTALLER. MARK LOCATION ON CEILING GRID WITH SMALL RED LABEL.
- PROVIDE SLEEVE THROUGH WALL FOR BIRD DETERRENT SYSTEM CABLE TO PASS FROM ROOF TO SYSTEM PANEL ABOVE CEILING. COORDINATE LOCATION WITH BIRD DETERRENT SYSTEM INSTALLER. SEAL ALL SLEEVES TO PREVENT ANY WATER FROM ENTERING THE BUILDING.
- ROUTE NEW CIRCUIT TO EXISTING PANEL INDICATED (MAY BE LOCATED ON DIFFERENT FLOOR).
- MOUNT ELECTRICAL BELOW ROOF NEAR EXISTING ROOF ACCESS HATCH. PENETRATE ROOF SLEEVE HORIZONTALLY INTO DEPRESSED WALKWAY AREA.
- PROVIDE NEW 20 AMP 120 VOLT C.B.'S IN PANEL FOR EACH NEW CIRCUIT INDICATED, REFER TO PANEL SCHEDULE.
- BIRD DETERRENT SYSTEM CABLE FROM LEVEL 23 DOWN INTO SLEEVE STUBBED INTO LEVEL 22 CEILING.



ELECTRICAL FLOOR PLAN LEVEL 21



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PRINTED ON: Jul 14, 2017 - 10:13am



Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE.
ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
1	04.20.17	90% DESIGN SET	MB/JJB	JLM
2	06.14.17	PERMIT SET	MB/JJB	JLM
3	07.13.17	100% CD	MB/JJB	JLM

• SPACE PLANNING

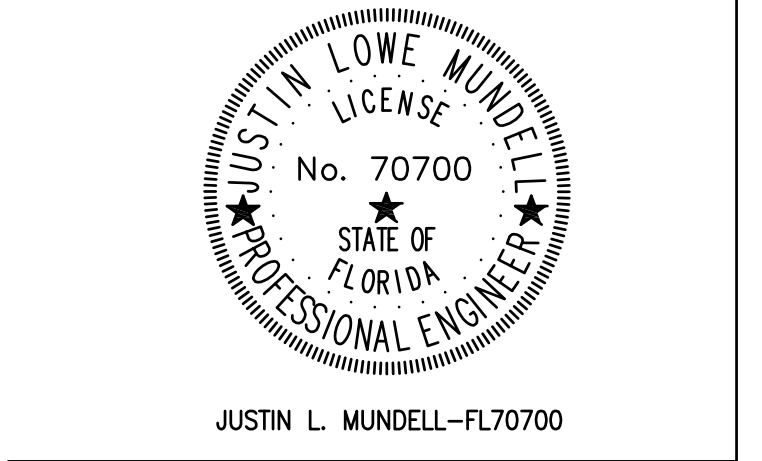
• INTERIOR DESIGN

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

Project Number	Issue Date
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Drawn By	Project Status
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Checked By	Scale
JLM	1/8" = 1'-0"

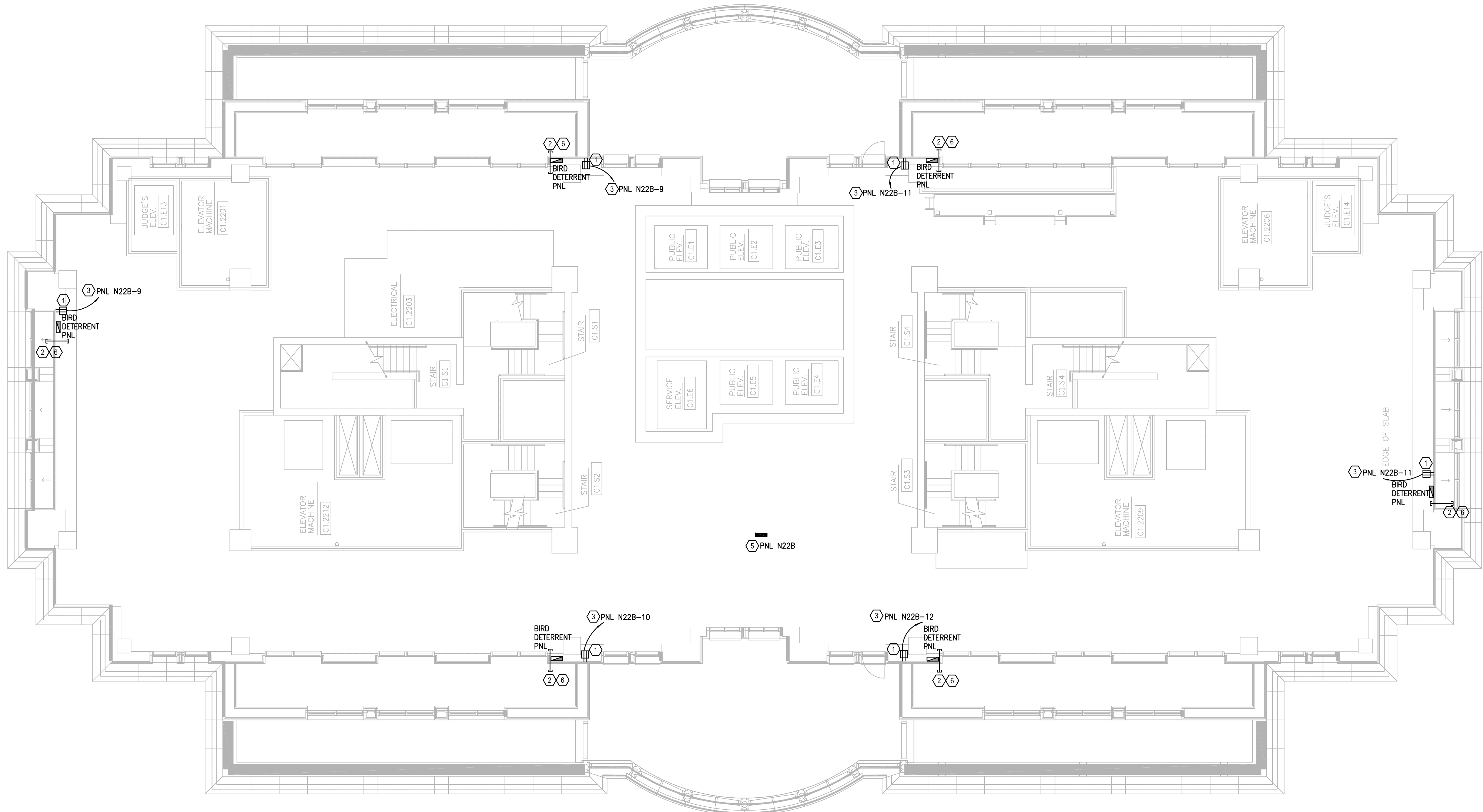
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Consultant • Seal/Signature



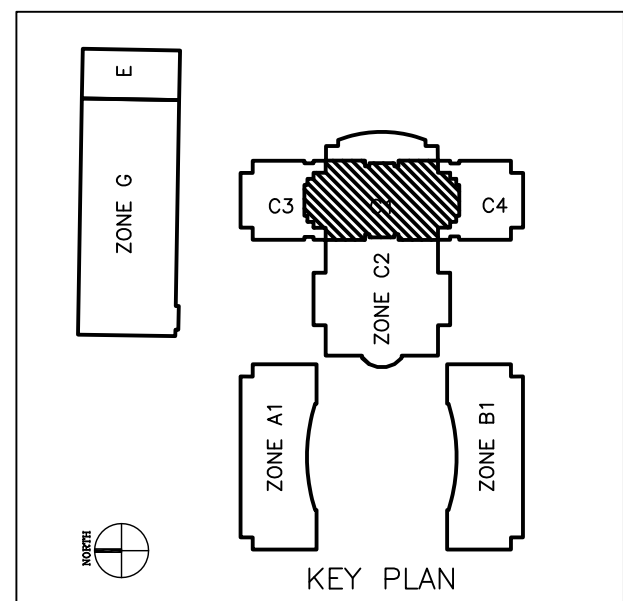
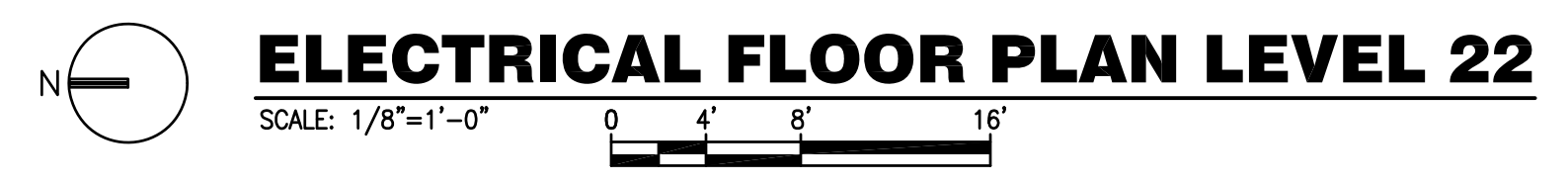
Justin L. Mundell-FL70700

Sheet Title:
ELECTRICAL FLOOR PLAN LEVEL 22
E02.22



- GENERAL NOTES:**
- REFER TO SYMBOL LEGEND ON DRAWING E00.00.
 - REFER TO SPECIFICATIONS IN THE PROJECT MANUAL.
 - CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.
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SGMA ENGINEERING INC.
MEP CONSULTING ENGINEERS
935 DARE BALDWIN LANE
ORLANDO, FL 32814
TEL: 407-767-5188
FAX: 407-767-5272
CA-90000205
WWW.SGMAENGINEERING.COM
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PRINTED ON: Jul 14, 2017 - 10:13am



Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
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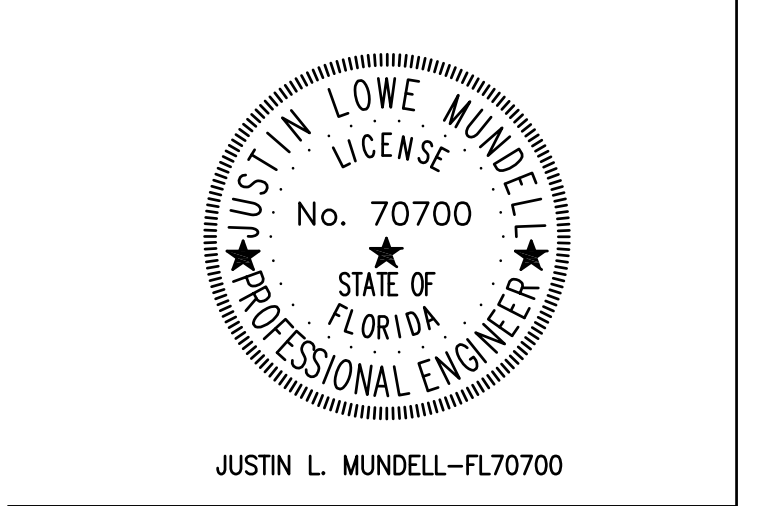
• INTERIOR DESIGN

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

Project Number	Issue Date
16325	07/13/2017
Drawn By	Project Status
MB/JJB	100% CD
Checked By	Scale
JLM	1/8" = 1'-0"

File Name

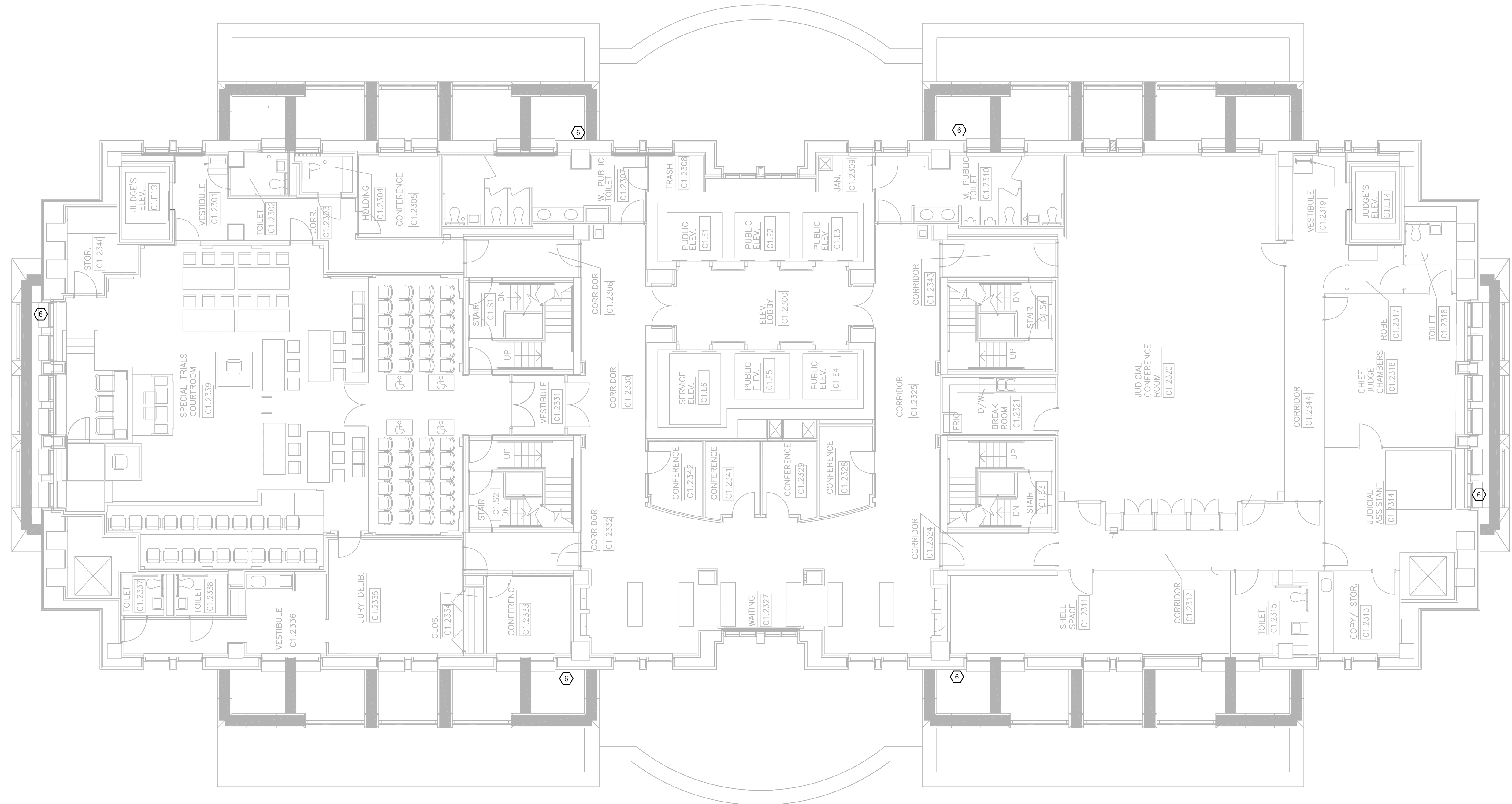
Consultant • Seal/Signature



Justin L. Mundell-FL70700

Sheet Title:
ELECTRICAL
FLOOR PLAN
LEVEL 23

E02.23

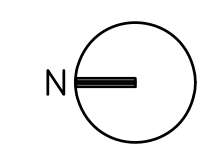


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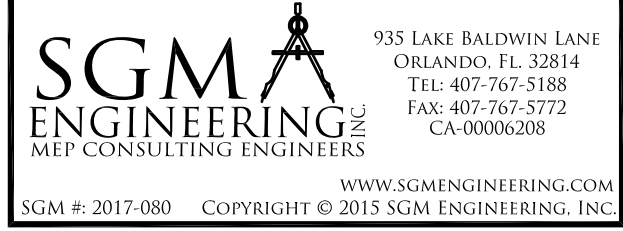
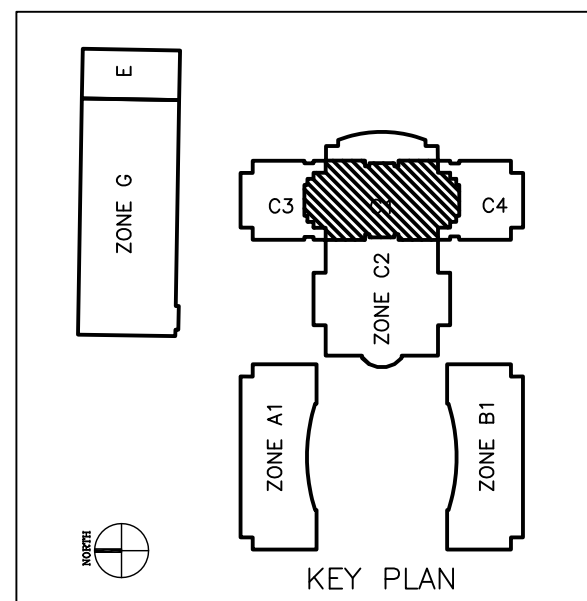
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- MOUNT ELECTRICAL BELOW ROOF NEAR EXISTING ROOF ACCESS HATCH. PENETRATE ROOF SLEEVE HORIZONTALLY INTO DEPRESSED WALKWAY AREA.
- PROVIDE NEW 20 AMP 120 VOLT C.B.'S IN PANEL FOR EACH NEW CIRCUIT INDICATED, REFER TO PANEL SCHEDULE.
- BIRD DETERRENT SYSTEM CABLE FROM LEVEL 23 DOWN INTO SLEEVE STUBBED INTO LEVEL 22 CEILING.



ELECTRICAL FLOOR PLAN LEVEL 23

SCALE: 1/8"=1'-0" 0 4' 8' 16'



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Project:
 ORANGE COUNTRY COURTHOUSE
 BIRD DETERRENT SYSTEM.
 425 N. ORANGE AVE.
 ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
1	04.20.17	90% DESIGN SET	MB/JJB	JLM
2	06.14.17	PERMIT SET	MB/JJB	JLM
3	07.13.17	100% CD	MB/JJB	JLM

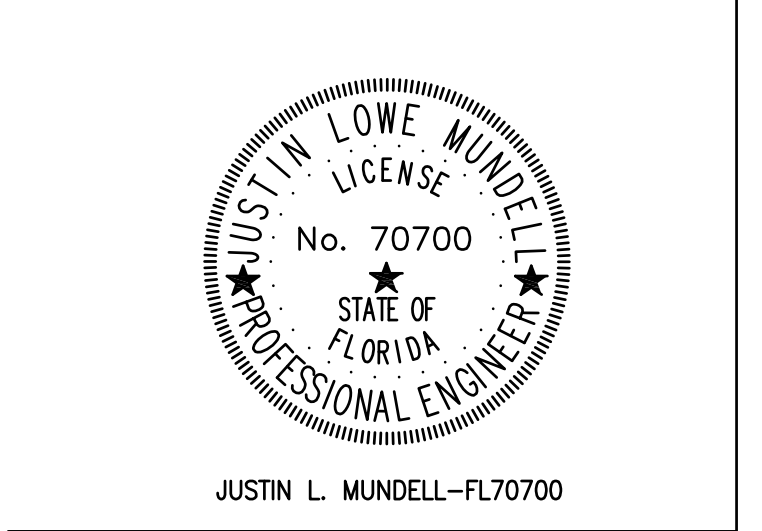
- SPACE PLANNING
- INTERIOR DESIGN

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

Project Number	Issue Date
16325	07/13/2017
Drawn By	Project Status
MB/JJB	100% CD
Checked By	Scale
JLM	1/8" = 1'-0"

File Name

Consultant • Seal/Signature

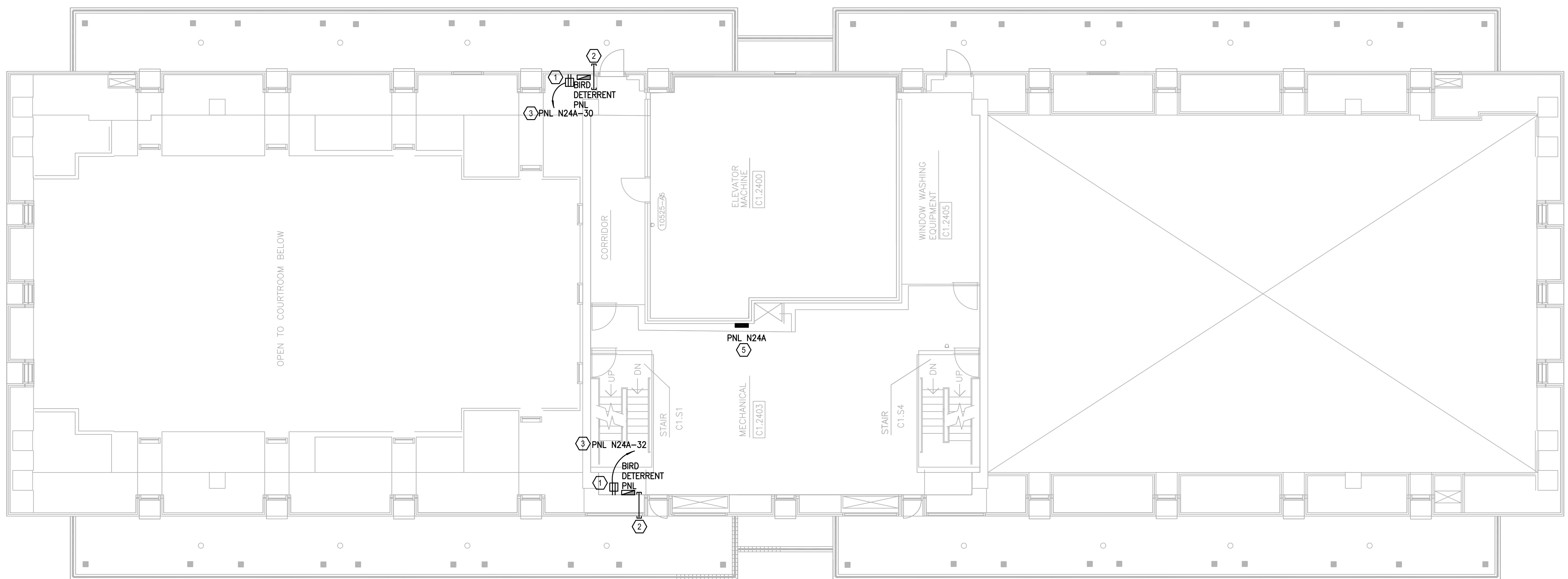


Justin L. Mundell-FL70700

Sheet Title:

ELECTRICAL
 FLOOR PLAN
 LEVEL 24.5

E02.24.5

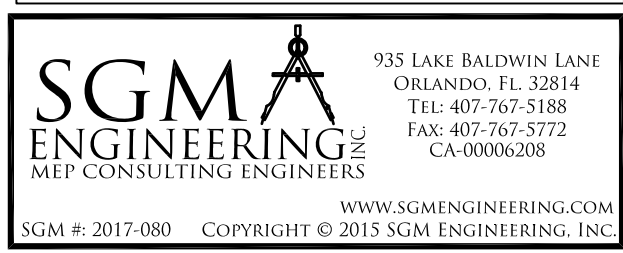
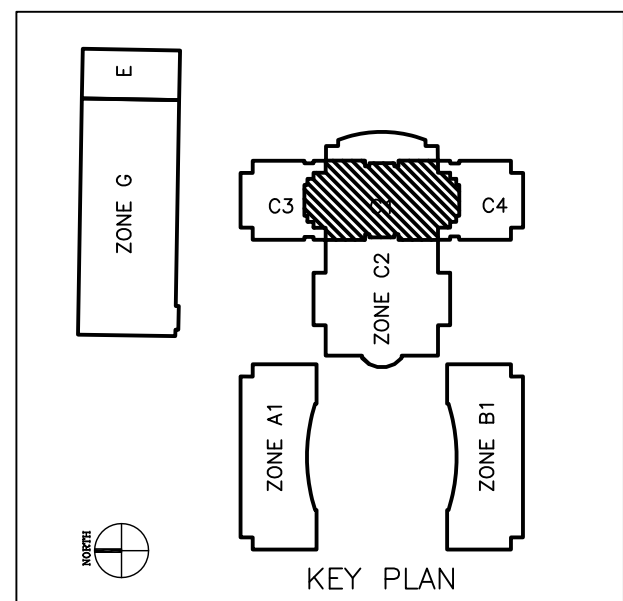
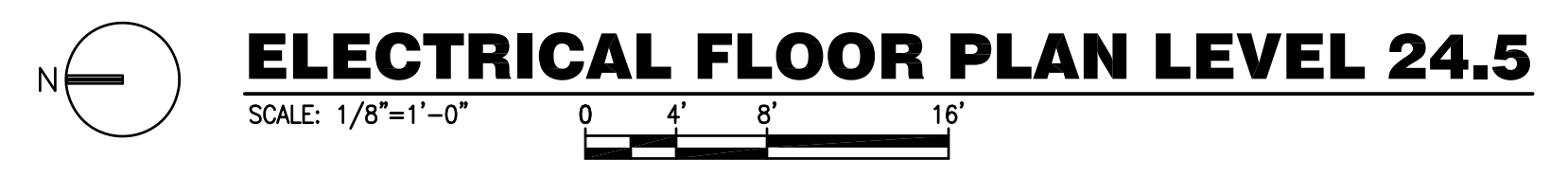


GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON DRAWING E00.00.
- b. REFER TO SPECIFICATIONS IN THE PROJECT MANUAL.
- c. CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.
- d. NIGHT SHIFT WORK MAY BE REQUIRED TO ROUTE CIRCUITS THROUGH EXISTING OFFICES ETC..

PLAN KEY NOTES:


1. PROVIDE NEW GFI OUTLET ABOVE CEILING FOR POWER TO BIRD DETERRENT SYSTEM PANEL PROVIDED BY THE BIRD DETERRENT SYSTEM INSTALLER. MARK LOCATION ON CEILING GRID WITH SMALL RED LABEL.
2. PROVIDE SLEEVE THROUGH WALL FOR BIRD DETERRENT SYSTEM CABLE TO PASS FROM ROOF TO SYSTEM PANEL ABOVE CEILING. COORDINATE LOCATION WITH BIRD DETERRENT SYSTEM INSTALLER. SEAL ALL SLEEVES TO PREVENT ANY WATER FROM ENTERING THE BUILDING.
3. ROUTE NEW CIRCUIT TO EXISTING PANEL INDICATED (MAY BE LOCATED ON DIFFERENT FLOOR).
4. MOUNT ELECTRICAL BELOW ROOF NEAR EXISTING ROOF ACCESS HATCH. PENETRATE ROOF SLEEVE HORIZONTALLY INTO DEPRESSED WALKWAY AREA.
5. PROVIDE NEW 20 AMP 120 VOLT C.B.'S IN PANEL FOR EACH NEW CIRCUIT INDICATED, REFER TO PANEL SCHEDULE.
6. BIRD DETERRENT SYSTEM CABLE FROM LEVEL 23 DOWN INTO SLEEVE STUBBED INTO LEVEL 22 CEILING.



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Project Documents for:



Project:
 ORANGE COUNTRY COURTHOUSE
 BIRD DETERRENT SYSTEM.
 425 N. ORANGE AVE,
 ORLANDO, FL 32801

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3	07.13.17	100% CD	MB/JJB	JLM

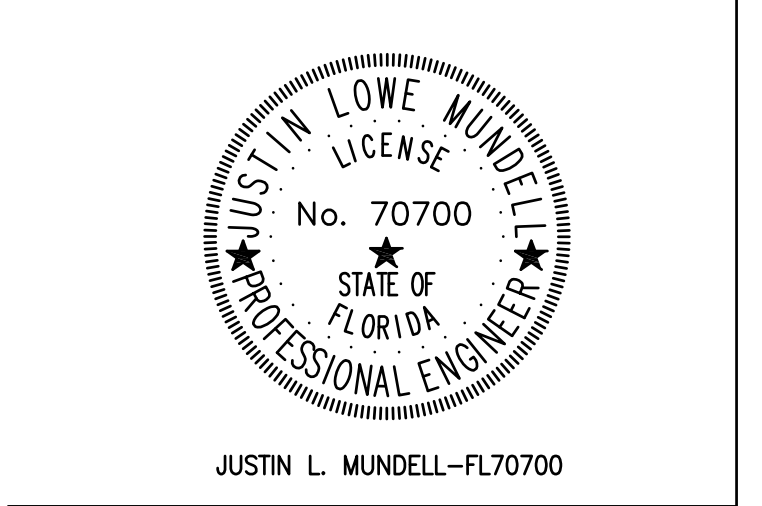
- SPACE PLANNING
- INTERIOR DESIGN

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

Project Number	Issue Date
16325	07/13/2017
Drawn By	Project Status
MB/JJB	100% CD
Checked By	Scale
JLM	1/8" = 1'-0"

File Name

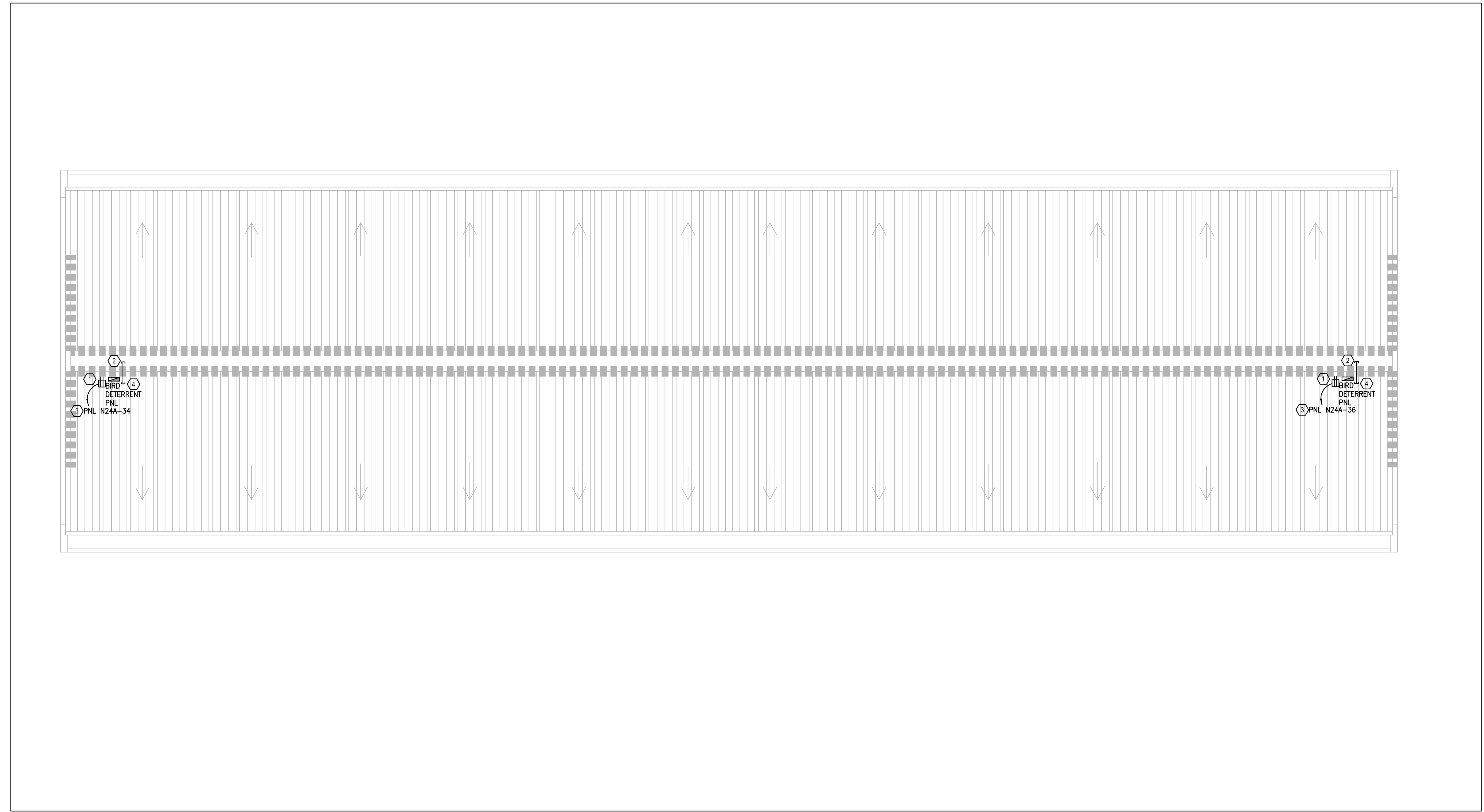
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Sheet Title:

ELECTRICAL ROOF PLAN

E03.01

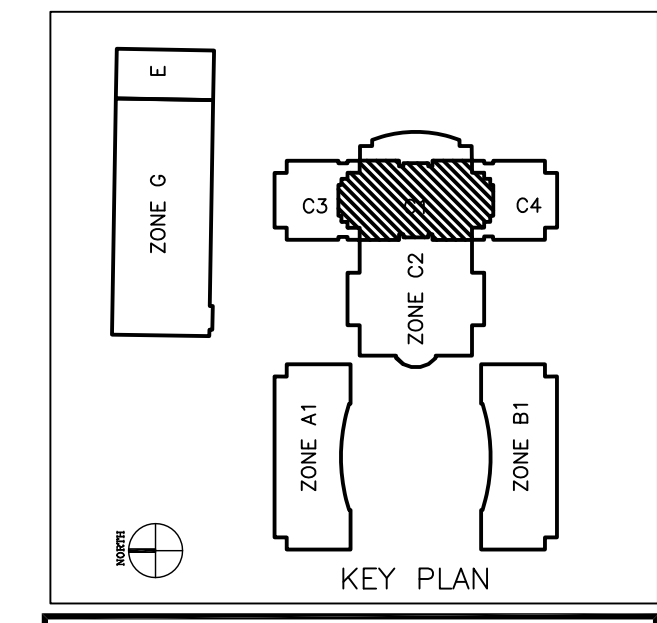
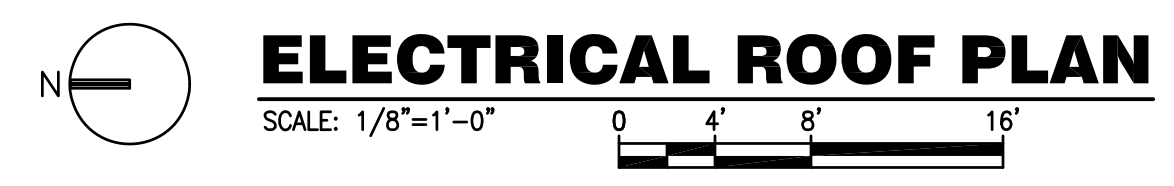


GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON DRAWING E00.00.
- b. REFER TO SPECIFICATIONS IN THE PROJECT MANUAL.
- c. CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.
- d. NIGHT SHIFT WORK MAY BE REQUIRED TO ROUTE CIRCUITS THROUGH EXISTING OFFICES ETC..

PLAN KEY NOTES:

1. PROVIDE NEW GF1 OUTLET ABOVE CEILING FOR POWER TO BIRD DETERRENT SYSTEM PANEL PROVIDED BY THE BIRD DETERRENT SYSTEM INSTALLER. MARK LOCATION ON CEILING GRID WITH SMALL RED LABEL.
2. PROVIDE SLEEVE THROUGH WALL FOR BIRD DETERRENT SYSTEM CABLE TO PASS FROM ROOF TO SYSTEM PANEL ABOVE CEILING. COORDINATE LOCATION WITH BIRD DETERRENT SYSTEM INSTALLER. SEAL ALL SLEEVES TO PREVENT ANY WATER FROM ENTERING THE BUILDING.
3. ROUTE NEW CIRCUIT TO EXISTING PANEL INDICATED (MAY BE LOCATED ON DIFFERENT FLOOR).
4. MOUNT ELECTRICAL BELOW ROOF NEAR EXISTING ROOF ACCESS HATCH. PENETRATE ROOF SLEEVE HORIZONTALLY INTO DEPRESSED WALKWAY AREA.
5. PROVIDE NEW 20 AMP 120 VOLT C.B.'S IN PANEL FOR EACH NEW CIRCUIT INDICATED, REFER TO PANEL SCHEDULE.



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Project:
ORANGE COUNTY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE.
ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
1	04.20.17	90% DESIGN SET	MB/JJB	JLM
2	06.14.17	PERMIT SET	MB/JJB	JLM
3	07.13.17	100% CD	MB/JJB	JLM

• SPACE PLANNING

• INTERIOR DESIGN

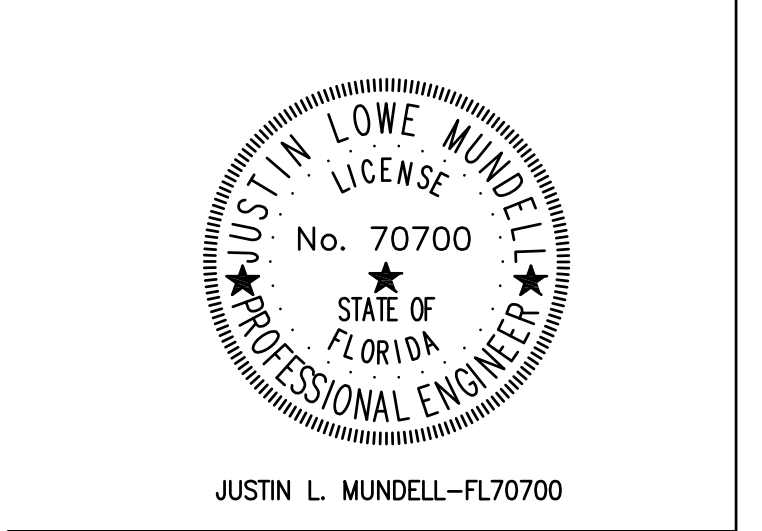
Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET 5th FLOOR
ORLANDO, FL 32801

• ARCHITECTURE

Project Number 16325	Issue Date 07/13/2017
Drawn By MB/JJB	Project Status 100% CD
Checked By JLM	Scale NA

File Name

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Sheet Title:

ELECTRICAL DETAILS

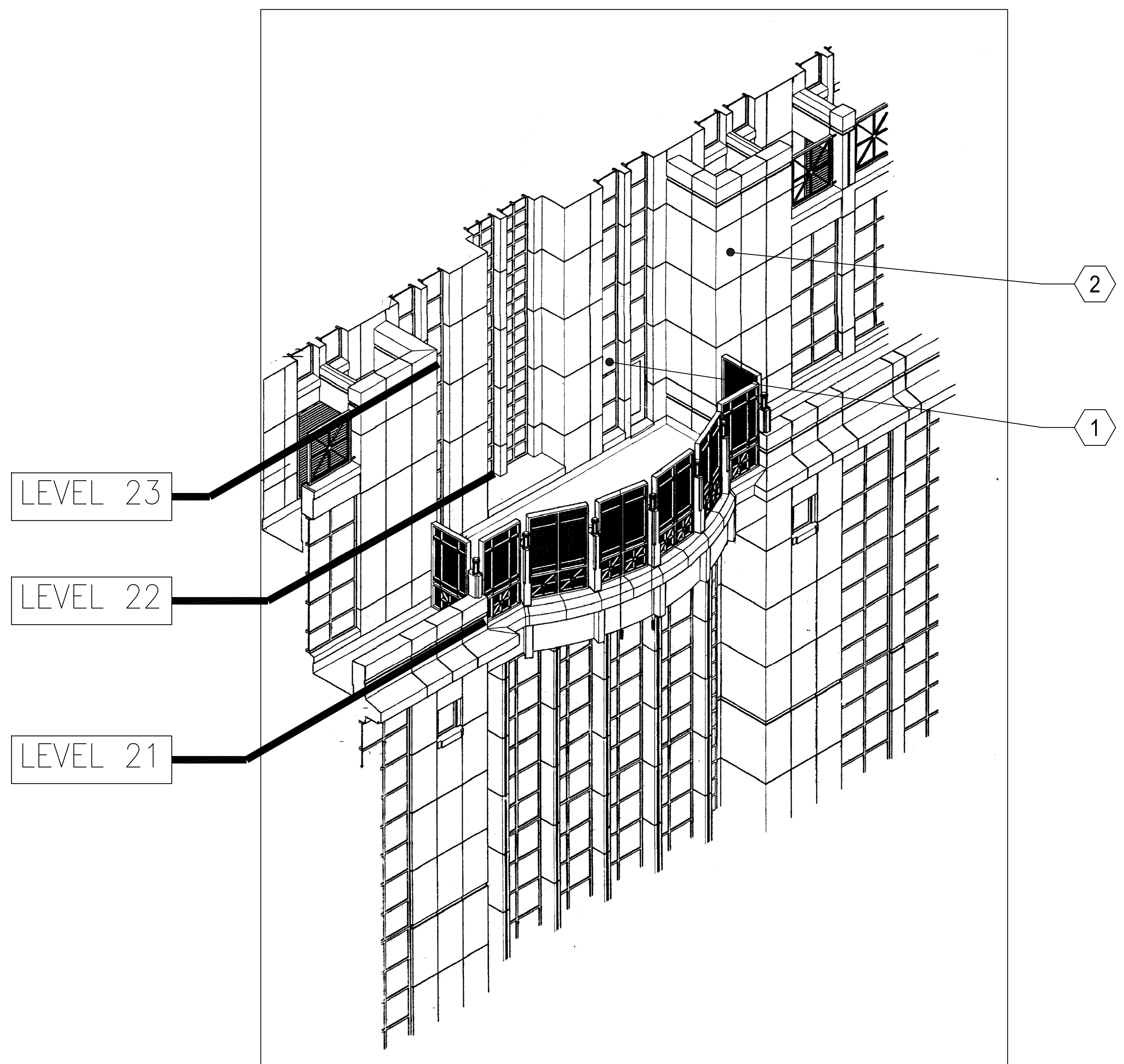
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GENERAL NOTES:

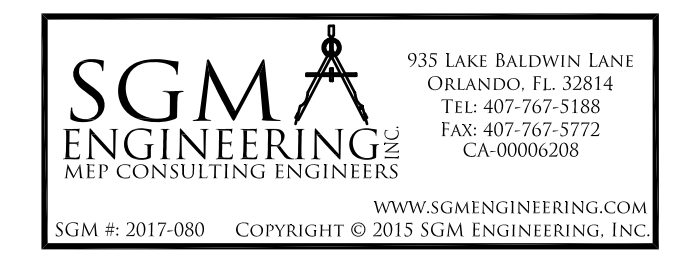
- a. REFER TO SYMBOL LEGEND ON DRAWING E00.00.
- b. REFER TO SPECIFICATIONS IN THE PROJECT MANUAL.
- c. CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH ROUTING OF CIRCUITS THROUGH EXISTING CEILINGS AND WALLS. REMOVAL OF DRYWALL MAY BE NECESSARY TO FACILITATE ROUTING OF SLEEVE THROUGH WALL TO EXTERIOR ROOF AREA.
- d. NIGHT SHIFT WORK MAY BE REQUIRED TO ROUTE CIRCUITS THROUGH EXISTING OFFICES ETC.
- e. THIS PLAN SHOWN FOR APPROXIMATE INSTALLATION INFORMATION ONLY. COORDINATE ALL SLEEVE AND OUTLET LOCATIONS WITH BIRD DETERRENT SYSTEM INSTALLER.

PLAN KEY NOTES: (X)

1. APPROXIMATE LOCATION OF SLEEVE FOR LEVER 21 CABLE.
2. APPROXIMATE LOCATION OF SLEEVE FOR LEVER 23 CABLE, LOCATION BEHIND THIS WALL WITHIN ENCLOSED AREA.



BALCONY ISOMETRIC





Project:
ORANGE COUNTRY COURTHOUSE
BIRD DETERRENT SYSTEM.
425 N. ORANGE AVE,
ORLANDO, FL 32801

Issue	Date	Issue Description	Drawn By	Checked By
1	04.20.17	90% DESIGN SET	MB/JJB	JLM
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3	07.13.17	100% CD	MB/JJB	JLM

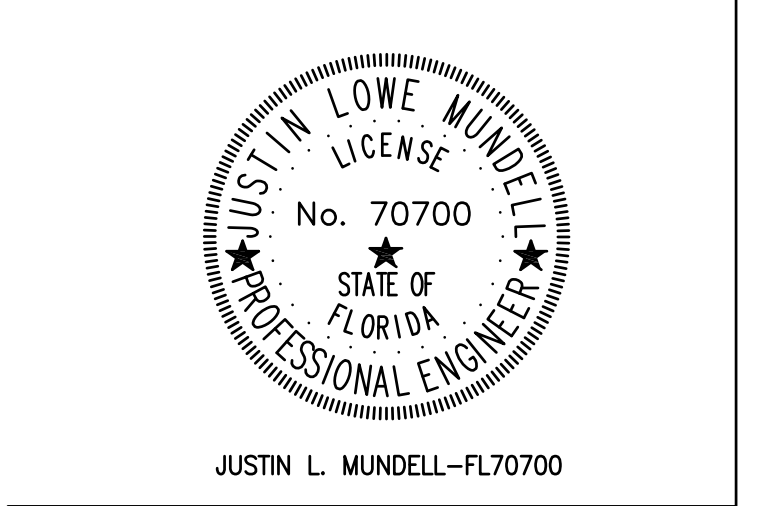
- SPACE PLANNING
- INTERIOR DESIGN
- PLANNING

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

Project Number	Issue Date
16325	07/13/2017
Drawn By	Project Status
MB/JJB	100% CD
Checked By	Scale
JLM	NA

File Name

Consultant • Seal/Signature



Sheet Title:

ELECTRICAL PANEL SCHEDULES

E09.02

MANUFACTURER: SQ. D. TYPE: NWOOD		MAIN OPTIONS REQUIRED: MCB: NA AMP: 350		PANEL NAME: N22B (EXIST)		
AIC RATING: 22 K AMPS		MLO: NA AMP: 350		LOCATION: 22ND FL MECH RM		
VOLTS L-L: 208 V		S.E. RATED: NA		MOUNTING: SURFACE		
PHASE: 3		GFI PROT: NA		NEMA TYPE: 1		
		SHUNT TRIP: NA		WIDTH: 20.00 IN		
				DEPTH: 5.75 IN		
NO. OF SECTS	IDENTIFICATION	LOAD/PHASE (KVA)	CIRCUIT BREAKER	LOAD/PHASE (KVA)	IDENTIFICATION	NO. OF SECTS
1	SPACE				SPACE	2
3	SPACE				SPACE	4
5	BIRD DETERRENT SYSTEM	E 1.00	20 1 1 20	1.00	BIRD DETERRENT SYSTEM	6 1
7	BIRD DETERRENT SYSTEM	E 1.00	20 1 1 20	1.00	BIRD DETERRENT SYSTEM	8 1
9	BIRD DETERRENT SYSTEM	E 1.50	20 1 1 20	1.00	BIRD DETERRENT SYSTEM	10 1
11	BIRD DETERRENT SYSTEM	E 1.50	20 1 1 20	1.00	BIRD DETERRENT SYSTEM	12 1
13	SPACE				SPACE	14
15	SPACE				SPACE	16
17	SPACE				SPACE	18
19	SPACE				SPACE	20
21	SPACE				SPACE	22
23	SPEAKER MONITOR RECEIPT	E 1.00	20 1 1 20	1.00	JURY BOX 23RD FL	24
25	FLOOD LIGHT RECEIPT	L 1.00	20 1 1 20	0.50	WW RELAY POWER	26
27	CONFERENCE RM	R 1.00	20 1 1 20	1.00	JURY BOX 23RD FL	28
29	SPACE				SPACE	30
31	SPEAKER MONITOR RECEIPT	E 1.00	20 1 1 20		SPACE	32
33	ANTENNA EQUIPMENT	E 1.00	20 1 1 20		SPACE	34
35	SPACE				SPACE	36
37	PNL N22B	O 7.00		7.00	EXIST LOAD (OFF)	40
39	SPACE				SPACE	42
41	SPACE				SPACE	42

SUB FEED LUGS AS INDICATED. IF BLANK (NOT USED)

10.0	10.5	10.5	8.5	9.0	10.0
------	------	------	-----	-----	------

CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)
1.00	1.25	1.25
1.00	1.00	1.00
0.00	0.50	0.00
0.00	1.00	0.00
0.00	1.00	0.00
14.50	1.00	14.50
0.00	1.25	0.00
42.00	1.00	42.00
0.00	1.00	0.00
INCLUDED IN ABOVE TOTALS		

TOTAL CONNECTED KVA: 58.50
TOTAL CONNECTED AMPS/PH: 163
TOTAL DEMAND KVA: 58.75
TOTAL DEMAND AMPS/PH: 163

GENERAL NOTES:
THIS PANEL IS FED FROM A 112.5 KVA XFRMR/350 AMP C.B.
a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES:
1. PROVIDE NEW C.B. FOR THIS NEW CIRCUIT. UPDATE PANEL SCHEDULE.

MANUFACTURER: SQ. D. TYPE: NWOOD		MAIN OPTIONS REQUIRED: MCB: NA AMP: 225		PANEL NAME: N24A (EXIST)		
AIC RATING: 22 K AMPS		MLO: 225 AMP: 225		LOCATION: 22ND FL MECH RM		
VOLTS L-L: 208 V		S.E. RATED: NA		MOUNTING: SURFACE		
PHASE: 3		GFI PROT: NA		NEMA TYPE: 1		
		SHUNT TRIP: NA		WIDTH: 20.00 IN		
				DEPTH: 5.75 IN		
NO. OF SECTS	IDENTIFICATION	LOAD/PHASE (KVA)	CIRCUIT BREAKER	LOAD/PHASE (KVA)	IDENTIFICATION	NO. OF SECTS
1	SPACE				SPACE	2
3	WINDOW WASH RECEIPT	E 1.50	30 3 3 30	1.50	WINDOW WASH RECEIPT	4
5	SPACE				SPACE	6
7	WINDOW WASH RECEIPT	E 1.50	30 3 3 30	1.50	WINDOW WASH RECEIPT	8
9	SPACE				SPACE	10
11	RECEPTS	R 1.00	20 1 1 20		SPACE	12
13	RECEPTS	R 1.00	20 1 1 20		SPACE	14
15	RECEPTS	R 1.00	20 1 1 20		SPACE	16
17	RECEPTS	R 1.00	20 1 1 20	1.00	RECEPTS	18
19	SPACE				SPACE	20
21	WINDOW WASH RECEIPT	E 1.50	30 3 3 30	1.50	WINDOW WASH RECEIPT	22
23	SPACE				SPACE	24
25	TIME CLOCK	E 1.00	20 1 1 20		SPACE	26
27	EF	E 1.00	20 1 1 20		SPACE	28
29	SPACE				SPACE	30
31	SPACE				BIRD DETERRENT SYSTEM	32 1
33	SPACE				BIRD DETERRENT SYSTEM	34 1
35	SPACE				BIRD DETERRENT SYSTEM	36 1
37	SPACE				SPACE	38
39	SPACE				SPACE	40
41	SPACE				SPACE	42

SUB FEED LUGS AS INDICATED. IF BLANK (NOT USED)

6.5	6.5	6.5	5.5	5.5	7.5
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CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)
4.00	1.00	4.00
0.00	0.50	0.00
0.00	1.00	0.00
0.00	1.00	0.00
30.00	1.00	30.00
0.00	1.25	0.00
4.00	1.00	4.00
0.00	1.00	0.00
INCLUDED IN ABOVE TOTALS		

TOTAL CONNECTED KVA: 38.00
TOTAL CONNECTED AMPS/PH: 106
TOTAL DEMAND KVA: 38.00
TOTAL DEMAND AMPS/PH: 106

GENERAL NOTES:
THIS PANEL IS FED BY A 200 AMP C.B.
a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES:
1. PROVIDE NEW C.B. FOR NEW CIRCUIT. UPDATE PANEL SCHEDULE.

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