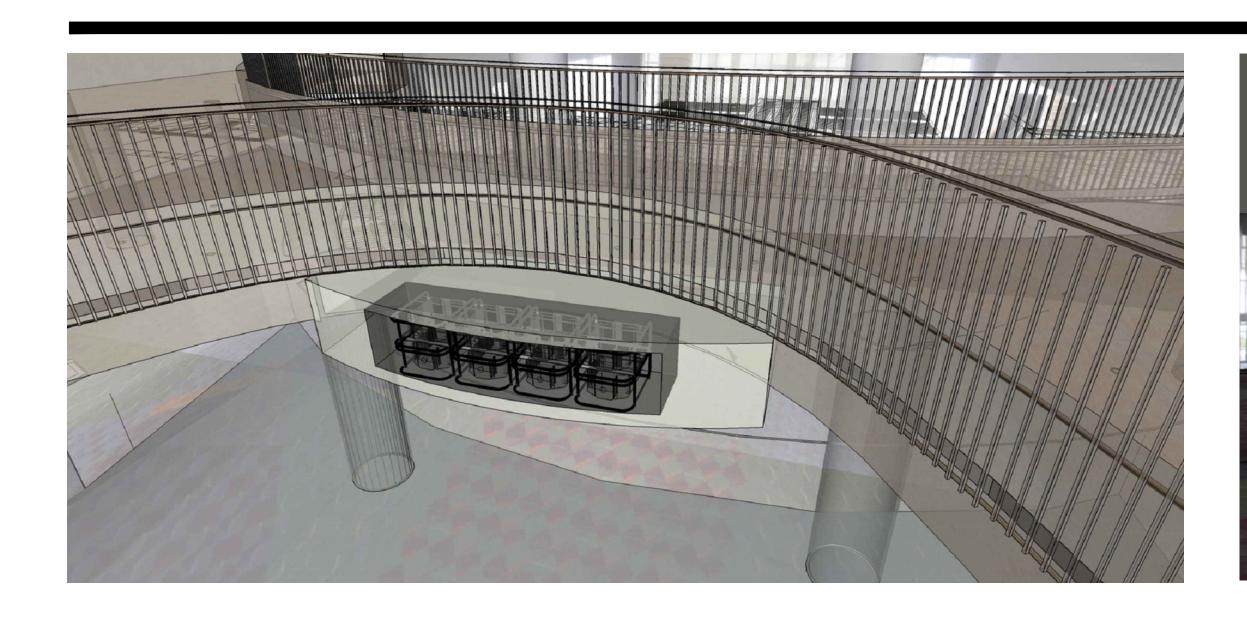
North/South Building Digital Advertising ORANGE COUNTY, FL Capital Planning Division

9800 International Drive, Orlando, FL 32819







# GENERAL SCOPE OF WORK

- This project involves installation of projectors within new custom fabricated housings at the two main entrances on level-2 of the North Building and two main entrances at level-2 of the South Building. Each location will include a 8-projector housing below the walking mezzanine directly in front of the main entrance. Also, a single projector housing shall be installed in front of the bridge projectors on each side of the escalators down to level-1.
- 2. To accommodate the new bridge projector assemblies, contractor shall remove and dispose existing way finding signs including all supports, wiring, and associated components at each location. Also, some relocation of utilities is required to accommodate the new projector housings at these locations.
- 3. At (4) bridge locations, a new projector housing shall be custom built to house (8) projectors along with miscellaneous electrical and data equipment.
- 4. In front of the new bridge projectors, an additional projector housing shall be manufactured and installed on each side of the escalator system down to the lower level. This assembly shall house (1) vertical mounted projector.
- 5. Projectors and associated components will be provided by the owner and installed inside new custom fabricated assemblies, completely wired and tested by the contractor for this project. The contractor shall engage an EPSON approved subcontractor for installation, wiring and final testing for all of the projectors. Please see this sheet for list of owner provided equipment.
- 6. Structural/ building modifications shall be made at the bridge projectors to accommodate the new projector housings.
- 7. Electrical power shall be connected from existing electrical rooms to provide power to the new projectors.
- 8. Fiber and Network connections shall be connected from existing IDF rooms to transmit data to the new projectors.
- 9. All work shall be performed in a manner and scheduled to reduce disruption to the convention center operations.

## Approved Projector Installer

The following is a list of EPSON approved installers for the projectors and associated equipment. General contractor shall engage one of the installers for installation, configuration and final testing of the projectors:

CCS Presentations Systems - John Doster - jcdoster@ccssoutheast.com HQ - Jacksonville, FL t: 904.998.7227 x319 | f: 904.998.7225 m: 904.434.3901 | www.ccssoutheast.com

Local office - 7101 Presidents Dr STE 270, Orlando, FL 32809

8010 Woodland Center Blvd., Suite 100, Tampa, FL 33634

Audio Fidelity Communications Group DBA The Whitlock Group Reid Holden, holdenr@whitlock.com

www.whitlock.com | www.global-presence.org

mobile: 706-206-0680 | direct: 813-498-0404 | Video: 96.254.123.239

United Data Technologies - HQ Miami, FL Julia Salas julia.salas@udtonline.com

D 786.364.5972

F 305.882.0436

www.UDTonline.com Local Office 9436 Southridge Park Ct, Suite 800, Orlando FL 32819

## SHEET INDEX

<u>GENERAL</u>	
T.01	TITLE SHEET
G021	PROJECT LOCATION PLAN NS CONCOURSE LEVEL 2
G022	ENLARGED PLAN
G023	REFERENCE IMAGES-MEZZANINE PROJECTOR HOUSING LOCATION

DETAILS FOR PROJECTOR HOUSING AT ESCALATOR A502 DETAILS FOR PROJECTOR HOUSING AT MEZZANINE A503 ELEVATIONS-INDIVDUAL ESCALATOR PROJECTOR LOCATIONS

STRUCTURAL S001

STRUCTURAL GENERAL NOTES S101 STRUCTURAL OVERALL PLAN S102 STRUCTURAL ENLARGED PLAN S501 STRUCTURAL DETAILS

E1.001 E1.002

E2.308

ELECTRICAL LEGEND AND GENERAL INFORMATION PROJECTOR INSTALLATION DETAILS E2.101 OVERALL ELECTRICAL FLOOR PLANS - LEVEL-1 E2.102 OVERALL ELECTRICAL FLOOR PLANS - LEVEL-2 E2.201 **ENLARGED ELECTRICAL PLANS - LEVEL-1** E2.202 **ENLARGED ELECTRICAL PLANS - LEVEL-2** E2.203 **ENLARGED ELECTRICAL PLANS - LEVEL-2** E2.301 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.302 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.303 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.304 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.305 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.306 **ENLARGED ELECTRICAL & IDF ROOM PLANS** E2.307 **ENLARGED ELECTRICAL & IDF ROOM PLANS** 

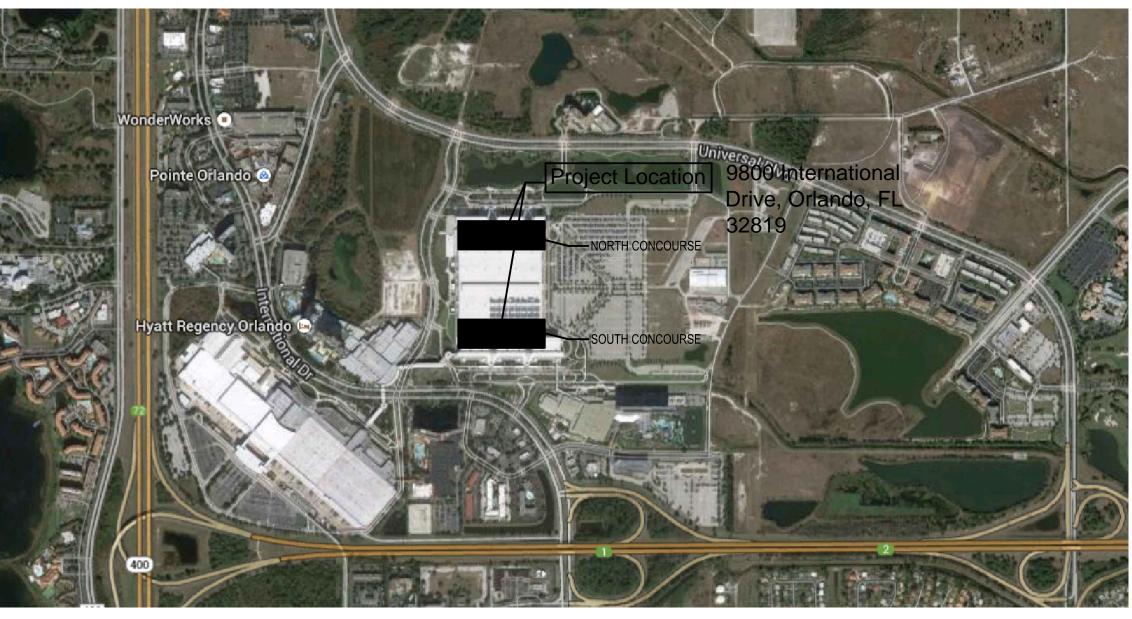
# Owner Provided Equipment

The following equipment will be provided by owner for installation, wiring and testing by contractor:

QTY (40) Pro Z1100WNL Epson Projectors- PN# V11H608920 WXGA, 11000 Lumens No Lens, HDMI & VGA, HDBaseT, 3LCD, Power Zoom & Power Focus, Motorized H&V Lens Shift, (lens not included), Close Caption decoder, DICOM Simulation Mode, 3 Year Warranty

**ENLARGED ELECTRICAL & IDF ROOM PLANS** 

- QTY (32) Epson Standard Pro Lens PN# V12H004S04
- 3. QTY (8) Epson Short Throw Lens PN#V12H004U02
- 4. QTY (40) Finland frames Model ELPMB44/H681
- 5. See specifications for detailed information of owner provided projectors and associated



Location Map

# PROJECT TEAM

architectural	structural	electrical	technology
Rhodes+Brito Architects, Inc	Base Consultants	Milan Engineering	Milan Engineering
605 East Robinson St.	4767 New Broad Street, #1018	952 S Semoran Blvd	952 S Semoran Blvd
Suite 750	Orlando, FL 32814	Suite 100	Suite 100
Orlando, Fl 32801	Phone: 407.442.2697	Winter Park, FL 32792	Winter Park, FL 32792
ph. (407) 648-7288	Cell: 407.719.1391	ph. (407)678-2055	ph. (407)678-2055
fax (407) 648-7289		fax (407) 678-2088	fax (407) 678-2088
contact: Maximiano Brito		contact: Mitesh Smart	contact: Mitesh Smart

PROFESSIONAL SEALS

Maximiano Brito, RA, AIA Mitesh K. Smart, P.E. Mitesh K. Smart, P.E. Wendy Bonnett, Fl. Reg. No AR0015108 Fl. P.E. No P.E. Lic. No 52772 P.E. Lic. No 52772

# Board of County Commissioners

Teresa Jacobs County Mayor

S. Scott Boyd District 1 Commissioner

Bryan Nelson District 2 Commissioner

Pete Clarke District 3 Commissioner

Jennifer Thompson District 4 Commissioner

Ted Edwards District 5 Commissioner

Victoria P. Siplin District 6 Commissioner

submittal/revision 12-22-14 90% DOCUMENTS 01-05-15 100% DOCUMENTS

**Orange County Convention Center** North/South Building **Digital Advertising Projector Modifications** 





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Seal/Signature

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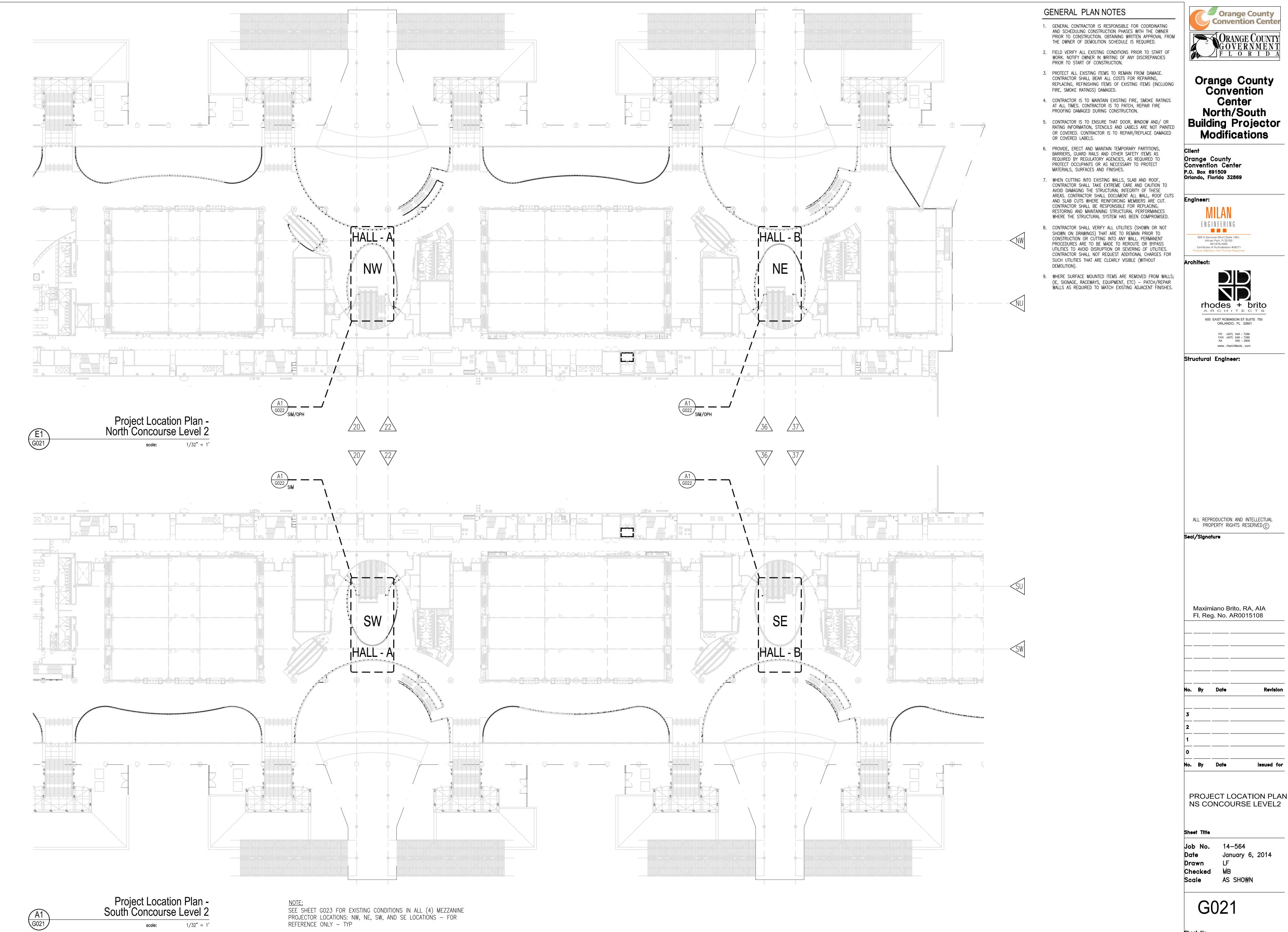
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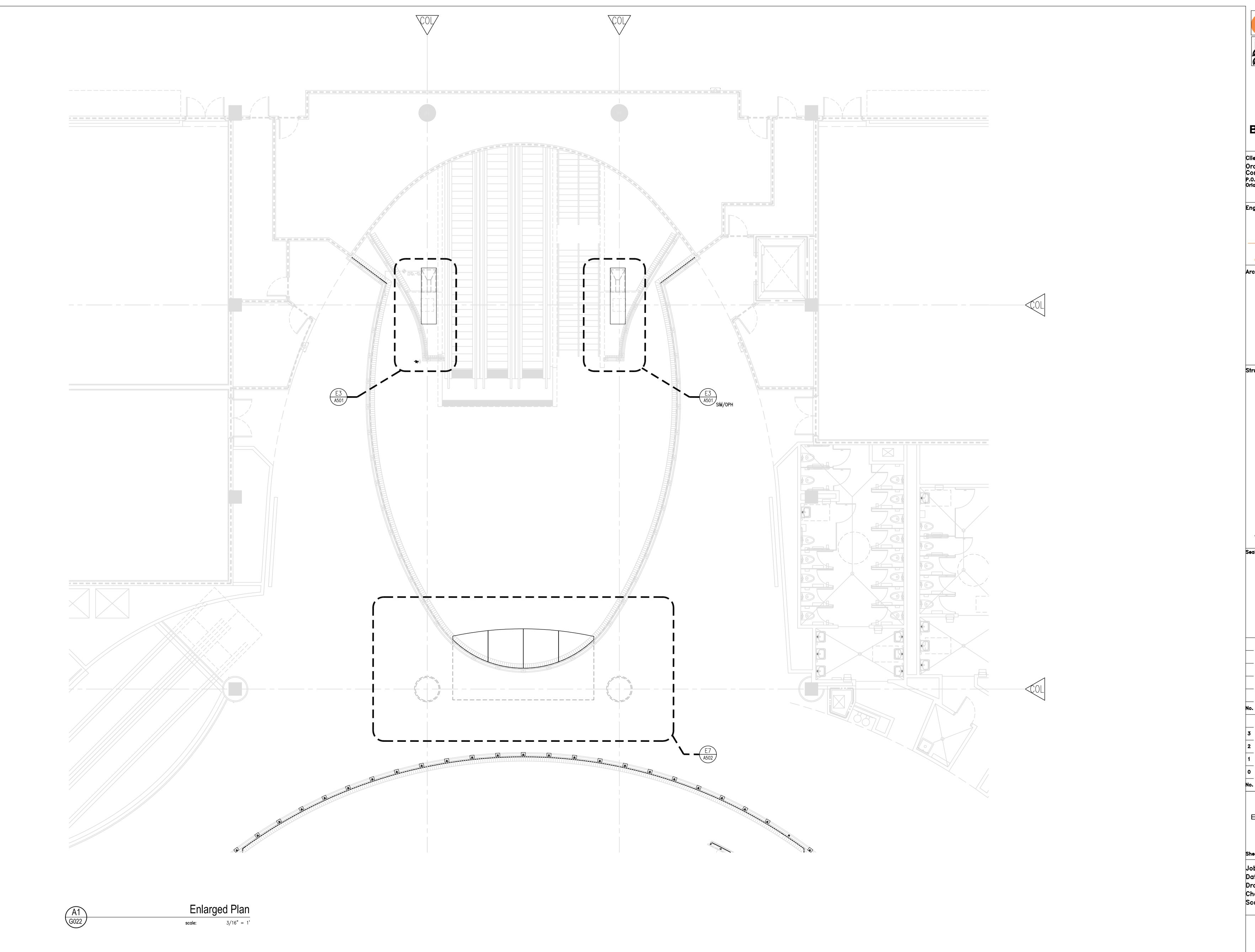
TITLE SHEET

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Sheet Title Job No. 14-564 January 6, 2014 Drawn Checked

Scale





Orange County
Convention Center

ORANGE COUNTY
GOVERNMENT
FLORIDA

Orange County
Convention
Center
North/South
Building Projector
Modifications

Client
Orange County
Convention Center
P.O. Box 691509
Orlando, Florida 32869

Engineer:

LAN
ENGINEERING

925 S Semoran Blvd | Suite 100 |
Winter Park, Fl 32792
407.678.2055
Certificate of Authorization #26271
Precise Solutions with Prompt Response

Architect



www rbarchitects com

Structural Engineer:

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Maximiano Brito, RA, AIA FI. Reg. No. AR0015108

By Date Revision

D. Data Laurad 6

ENLARGED PLAN

Sheet Tit

Job No. 14-564
Date January 6, 2014
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Checked MB
Scale AS SHOWN

G022











### NOTES TO SHEET

- 1 EXISTING DIFFUSER TO BE RELOCATED SEE SHEET A7/A502 AND ELECTRICAL FOR ADDITIONAL INFORMATION
- 2 EXISTING EXIT SIGN TO BE RELOCATED TO UNDERSIDE OF MEZZANINE PROJECTOR HOUSING SEE SHEET A7/A502 AND ELECTRICAL FOR ADDITIONAL INFORMATION

  - TYP
- EXISTING SIGNAGE TO BE REMOVED AND DEMOED, INCLUDING ALL ASSOCIATED WIRING AND ATTACHMENTS SEE ELECTRICAL FOR ADDITIONAL INFORMATION TYP
- SECURITY CAMERA TO BE RELOCATED SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- 5 SPEAKER TO BE RELOCATED SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION TYP



Orange County Convention Center North/South **Building Projector** Modifications

Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

### Engineer:





PH (407) 648 - 7288 FAX (407) 648 - 7289 AA 000 - 2809 www rbarchitects com

Structural Engineer:



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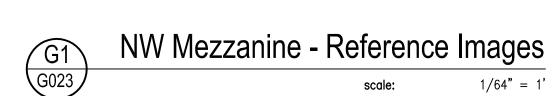
Maximiano Brito, RA, AIA FI. Reg. No. AR0015108

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REFERENCE IMAGES -MEZZANINE PROJECTOR HOUSING LOCATIONS

Job No. 14-564 January 6, 2014 Drawn Checked

G023



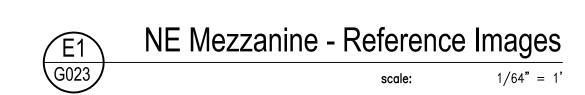






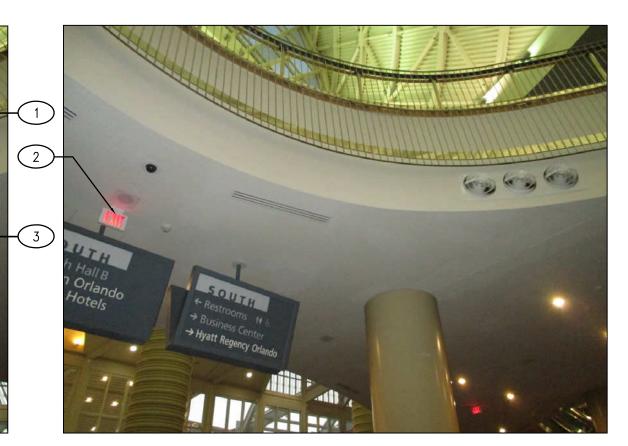






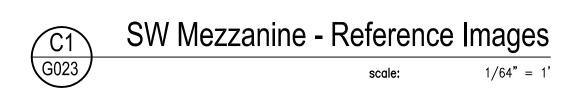












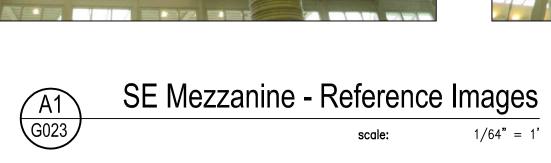


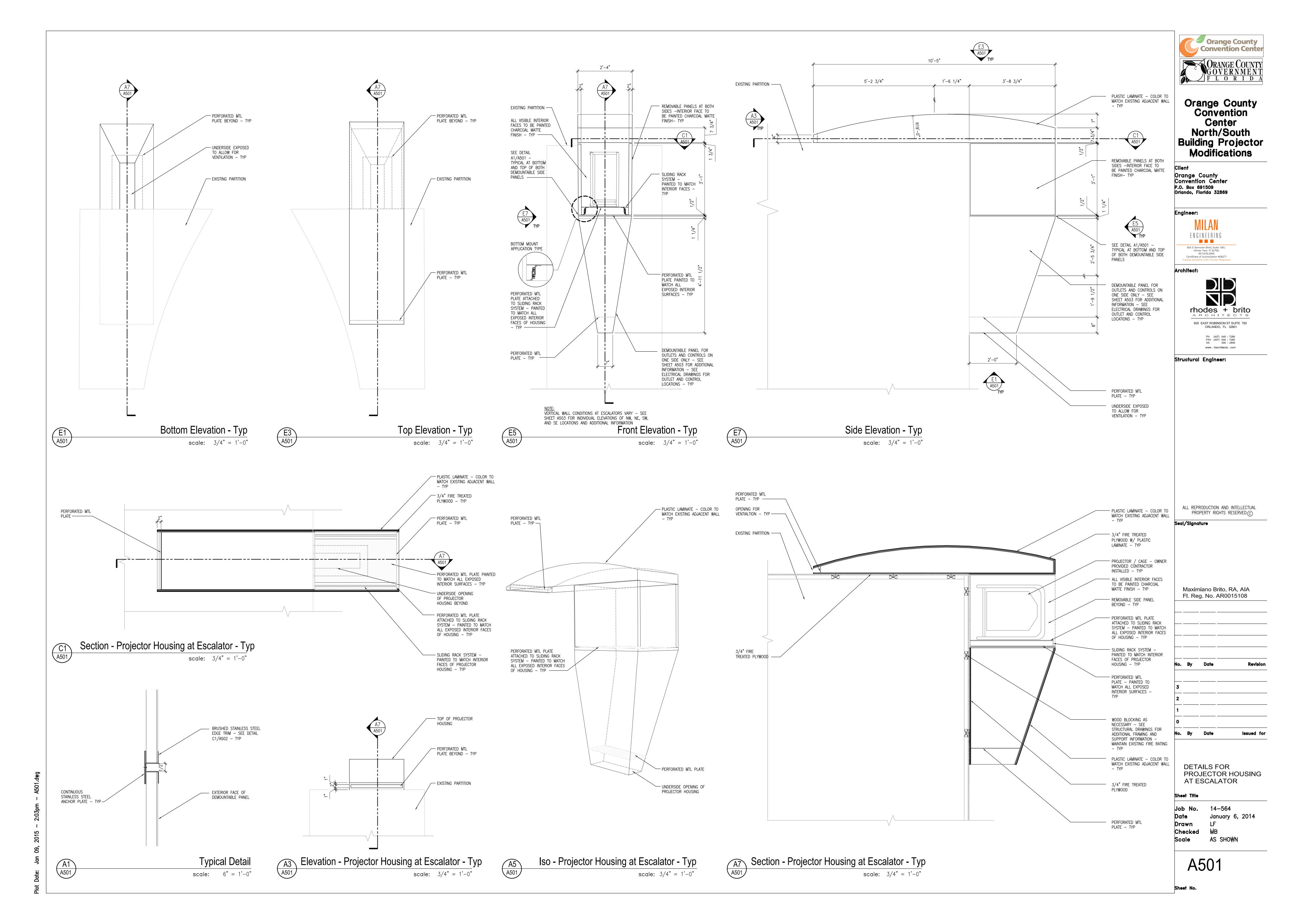


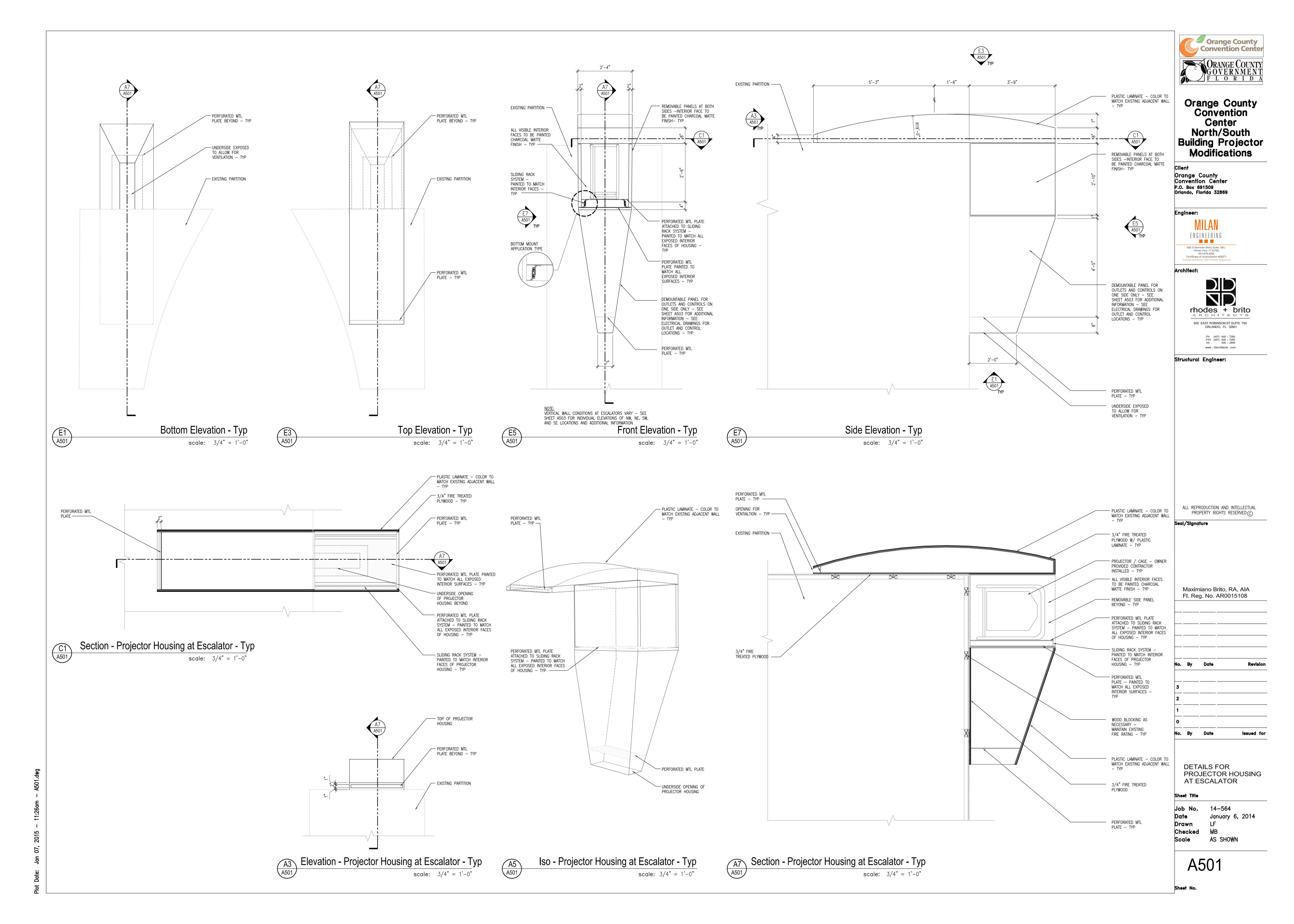


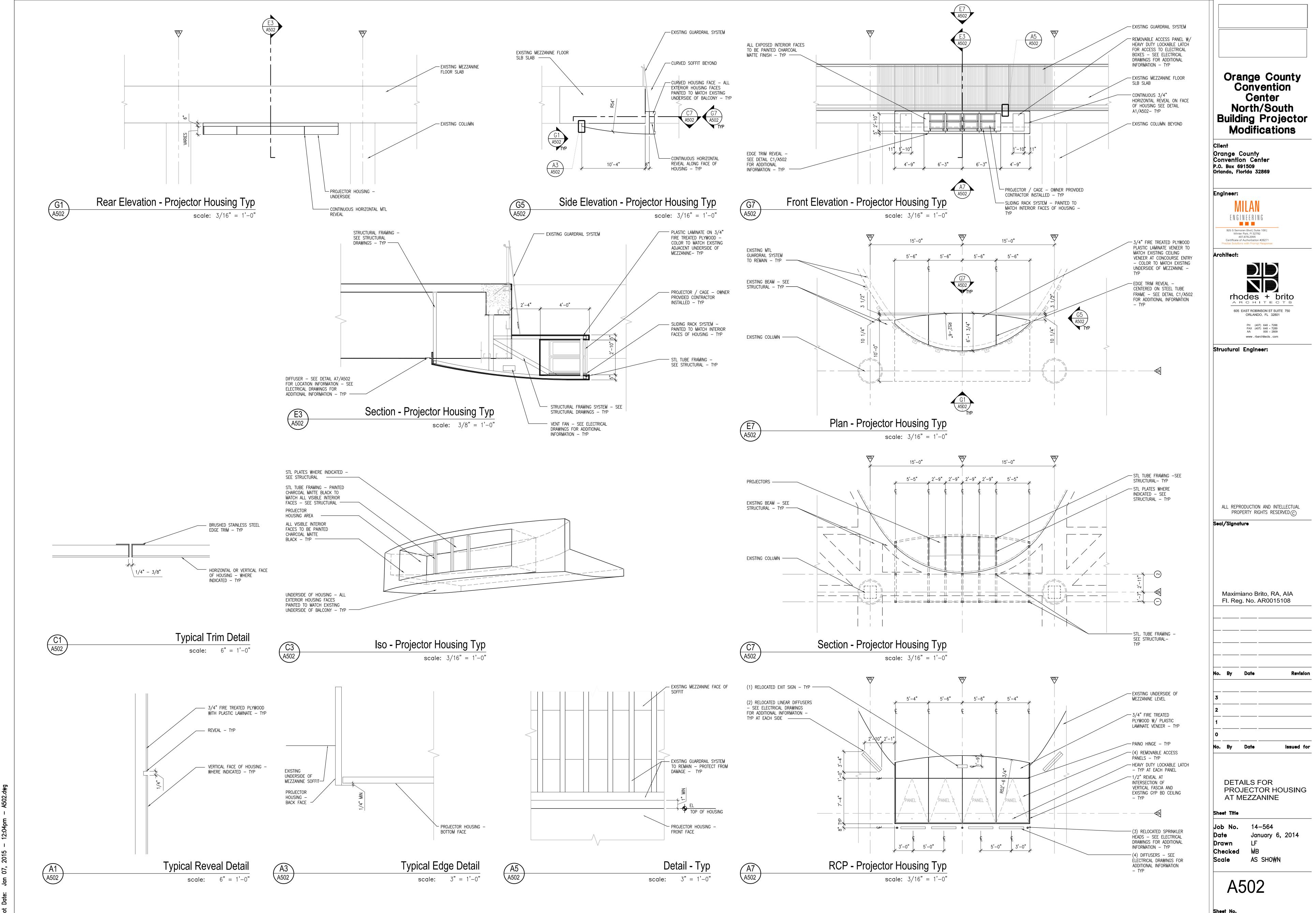


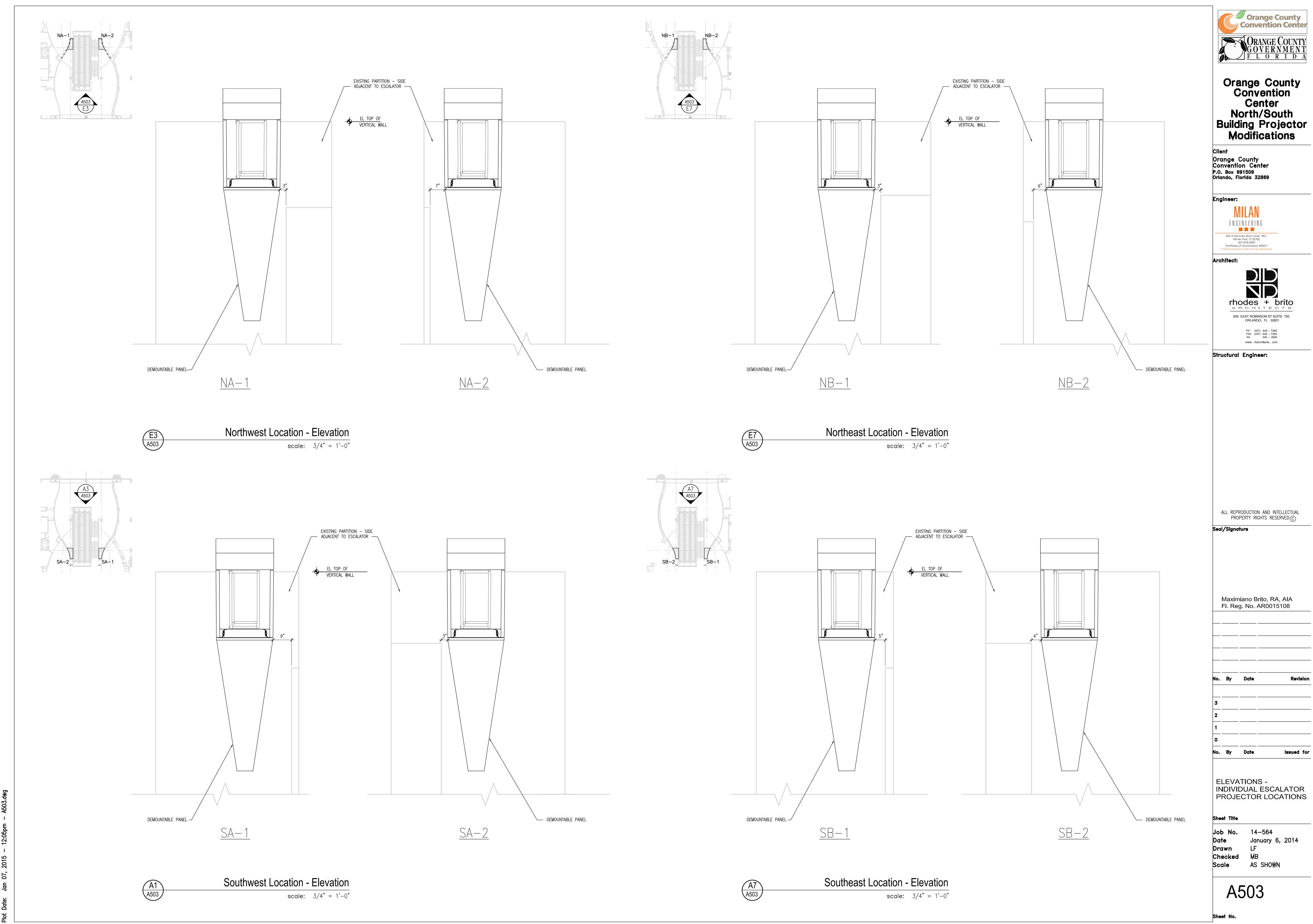












I. GENERAL

A. 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.

B. 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.

C. 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.

D. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

E. 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.

F. 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. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION.

G. 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.

H. 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.
I. PERIODIC SITE OBSERVATION BY BASE CONSULTANTS, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS AND IS NOT EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE

WORK.

J. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO INSURE 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 FLEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

K. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:

A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.
 SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

L. CONTRACTOR TO ISSUE REQUEST FOR INFORMATION (RFI) FOR ANY INFORMATION NOT CLEAR/NOT SHOWN IN THE DRAWINGS AND SHALL DO SO IN WRITING.

M. DO NOT SCALE DRAWINGS

N. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS,

CHETAIN (WINDOW WALL SYSTEMS DRECAST COLD FORMED METAL FRAMING OR OTHER SYSTEMS)

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.

O. 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.

II. DESIGN CRITERIA

A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010, WITH 2012 SUPPLEMENT

B. DEAD LOADS

1. CLADDING: 20 PSF 2. MISCELLANEOUS CEILING AND HANGING MECHANICAL LOADS SUCH AS DUCT WORK AND SPRINKLER

PIPES: 10 PSF

3. PROJECTORS AND SLIDING RACK SYSTEM: 35 PSF
C. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, LOCATIONS AND ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT SUCH INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE. PROMPTLY NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE

WEIGHT SHOWN ON THE STRUCTURAL DRAWINGS.

D. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR TO FLOOR DEFLECTIONS AND LATERAL FRAME DEFLECTION.

E. BUILDING MOVEMENT AND DEFLECTIONS

1. THE BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR UNDER THE NOMINAL (UNFACTORED) LOADS SPECIFIED BY THE BUILDING CODE AND SHALL BE CONSIDERED BY THE

CONTRACTOR IN THE PERFORMANCE OF THE WORK.

2. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR TO FLOOR DEFLECTIONS AND LATERAL FRAME

3. LATERAL FRAME DEFLECTION (STORY DRIFT) UNDER WIND LOAD. THE DESIGN, FABRICATION AND INSTALLATION OF THE BUILDING CLADDING AND ALL WALL PARTITIONS SHALL CONSIDER LATERAL FRAME DEFLECTION IN THE PLANE OF THE CLADDING OR WALL OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR EQUAL TO THE FOLLOWING LIMITS:

a. TYPICAL FLOOR TO FLOOR: FLOOR HEIGHT/400

III. POST-INSTALLED ANCHORS:

A. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.

ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

C. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACING INDICATED IN THE MANUFACTURER'S LITERATURE. CONTACT MANUFACTURER PRIOR TO ANCHOR

B. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED

INSTALLATION, IF TRAINING IS REQUIRED.

D. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.

E. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.

F. ACCEPTABLE PRODUCTS ARE:
1. "CRACKED CONCRETE" MECHANICAL ANCHORS:

a. "HILTI KB-3" BY HILTI.

a. "HILII KB—3" BY HILII. b. "HILTI HSL—3" BY HILTI.

c. "STRONG-BOLT" BY SIMPSON STRONG-TIE.
2. "CRACKED CONCRETE" ADHESIVE ANCHORS:

a. "HIT RE500—SD" BY HILTI.

3. ADHESIVE ANCHORS:

a. "HIT HY-200 MAX" BY HILTI b. "HIT RE 500" BY HILTI

c. "ACRYLIC-TIE" OR "SET EPOXY-TIE" WITH INSERT (RFB BOLTS OR REBAR)

IV. STRUCTURAL STEEL

A. ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6-98A.

B. STRUCTURAL STEEL SHALL BE AS FOLLOWS, U.N.O.:

1. WIDE FLANGE SHAPES ASTM A992 FY = 50 KSI
2. STRUCTURAL RECTANGULAR TUBING ASTM A500 GRADE B FY = 46 KSI
3. ALL OTHER STRUCTURAL STEEL ASTM A36 FY = 36 KSI

4. CONNECTION MATERIALS:

a. ALL OTHER CONNECTION MATERIAL, U.N.O.: ASTM A36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
 5. ASTM A572 GRADE 50 IS ACCEPTABLE AS A SUBSTITUTE FOR A992.

C. STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

D. CONNECTIONS:

1. BOLTS SHALL BE A325N TYPE 1, UNLESS OTHERWISE INDICATED.

2. ALL BOLTS SHALL BE SNUG TIGHT U.N.O. BOLTS SHALL BE TIGHTENED UNTIL ALL PLIES OF THE JOINT ARE IN FIRM CONTACT.

3. THREADED RODS SHALL CONFORM TO ASTM A36 [ASTM A588 (CORROSION RESISTANT)]
4. WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION, "WELDING IN

5. UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW). WEATHERING STEEL ELECTRODES SHALL CONFORM TO THE ANSI/AWS D1.1 MANUAL. ELECTRODES FOR GRADE 60 OR GRADE 65 MATERIAL SHALL CONFORM TO E80XX (SMAW), F8XX-EXX-XX (SAW), ER80S-X (GMAW), OR E8XT-X (FCAW).

6. WELDS INDICATED "CIP" ["PIP"] SHALL BE COMPLETE [PARTIAL] JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE COMPLETE [OR PARTIAL] JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO ALL AWS D1.1 QUALIFIED WELD REQUIREMENTS AND WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN.

7. ALL ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS REQUIRED.
E. WHERE THE WORK OF OTHER TRADES REQUIRES CUTS, HOLES, ETC., IN STRUCTURAL STEEL MEMBERS, CUTS, HOLES, ETC., SHALL BE MADE IN THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. MAKING HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE ENGINEER.

F. ALL STRUCTURAL STEEL SHALL BE SHIPPED WITH ONE COAT OF SHOP PRIMER EXCEPT THOSE MEMBERS
THAT ARE GALVANIZED OR IN AREAS SCHEDULED TO RECEIVE FIRE PROOFING. THE CONTRACTOR SHALL BE
RESPONSIBLE FOR COORDINATING AREAS TO BE FIRE PROOFED.

VI. DEMOLITION

A. REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS WHICH ARE TO REMAIN IN PLACE. PROVIDE PLYWOOD AND/OR PLANKING TO CUSHION AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS, OR GIRDERS AS DIRECTED BY OWNER.

B. THESE DRAWINGS ARE INTENDED TO DEFINE LIMITS OF REMOVAL OF STRUCTURAL ELEMENTS AND PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN.

C. AT ALL LOCATIONS WHERE THE DEMOLITION OF A CONCRETE MEMBER LEAVES THE END OF REINFORCING STEEL EXPOSED, PROVIDE THE FOLLOWING:

1. CHIP CONCRETE FROM AROUND THE STEEL TO A DEPTH OF 1".

2. CUT OFF REINFORCING STEEL NOT LESS THAN 3/4" BELOW THE CONCRETE SURFACE.

3. FILL THE CAVITY FLUSH WITH A HIGH MODULUS GEL EPOXY. SEE SPECIFICATIONS FOR ACCEPTED MANUFACTURERS.

D. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SUBMIT A WRITTEN REPORT TO THE ENGINEER FOR

REVIEW AND/OR INSTRUCTION OF ACTUAL FIELD CONDITIONS, WHICH MAY VARY FROM INFORMATION, INDICATED ON DRAWINGS.

E. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED, AS WELL

E. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED, AS WELL AS PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION.

F. THE DETAILS AND ENGINEERING OF SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED FOR SUCH WORK AND THE PHASING, STAGING, AND SEQUENCE OF SUCH OPERATION SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL DRAWINGS BY A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR OR SUB—CONTRACTOR. THE DRAWINGS SHALL BE PROVIDED TO THE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RESPONSIBLE FOR THE INSPECTION OF SUCH WORK, WHO SHALL REPORT TO THE OWNER ANY DEVIATIONS OBSERVED DURING HIS INSPECTION.

G. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY FACILITY OR PORTION THEREOF, AND THE ASSOCIATED BARRICADING REQUIREMENTS WITHIN A MINIMUM OF 7 DAYS PRIOR TO COMMENCING WORK.

H. THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN A MANNER WHICH WILL NOT CONFLICT WITH ANY OPERATION WHICH IS TO REMAIN FUNCTIONAL DURING THE COURSE OF THE PROJECT, UNTIL SUCH OPERATION IS SCHEDULED TO SHUT DOWN.

I. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OWNER FOR THE TEMPORARY SUSPENSION OF USE

OF ANY UTILITY SYSTEM A MINIMUM OF 3 DAYS PRIOR TO COMMENCING WORK.

J. AT ALL LOCATIONS WHERE NEW CONSTRUCTION WILL INTERFACE WITH EXISTING ELEMENTS, CUT THROUGH EXISTING STRUCTURE IN STRAIGHT AND TRUE LINES TO INSURE A NEAT INTERFACE.

K. BEFORE DEMOLISHING ANY STRUCTURAL ELEMENT, INSTALL ALL REQUIRED TEMPORARY AND/OR PERMANENT BRACING AND SUPPORTS.

L. UPON COMPLETION OF NEW CONSTRUCTION UNDER EACH PHASE, ALL DEMOLISHED AREAS SHALL BE RESTORED TO ACCEPTABLE USAGE ACCORDING TO THE CONTRACT DOCUMENTS AS DETERMINED BY THE ARCHITECT AND/OR ENGINEER.

M. REMOVE COMPLETELY FROM THE SITE AND LEGALLY DISPOSE ALL DEBRIS GENERATED BY THE DEMOLITION WORK AS THE WORK PROGRESSES. STOCKPILING OF DEBRIS AND BURNING OF DEBRIS ON THE PREMISES IS STRICTLY PROHIBITED.

VII. EXISTING STRUCTURE

A. INFORMATION SHOWN ON THE DRAWINGS WAS TAKEN FROM THE FOLLOWING DRAWINGS:

1. ORANGE COUNTY CONVENTION CENTER — PHASE V, COMPOSITE STRUCTURAL SET, DATED 12/4/2000 B. WORK SHOWN ON THE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS (but not limited to) DIMENSIONS, ELEVATIONS, MEMBER SIZES MATERIALS, DETAILS ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND NOTIFY THE

ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

C. PERFORM X-RAY SCANS OF THE EXISTING SLAB PRIOR TO CUTTING, CORING OR DRILLING TYP.

VIII. SPECIALITY ENGINEERING REQUIREMENTS

A. THE FLORIDA STATE OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, IN ACCORDANCE WITH RULE 21H-19.00(3) CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF A SPECIALTY ENGINEER FOR THE DESIGN OF THOSE COMPONENTS.

IX. SUBMITTALS

A. THE 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 STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.

B. A RECORD SET OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL

C. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.

D. THE CONTRACTOR SHALL PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.

E. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW:

1. MISCELLANEOUS STEEL

2. STRUCTURAL STEEL, SHOP AND ERECTION DRAWINGS (1, 3).

3. EMBEDDED ITEMS (PLATES, ANGLES, BOLTS, ETC.) OR ITEMS ATTACHED TO THE STRUCTURAL FRAME FOR BUILDING CLADDING ATTACHMENT OR FOR ATTACHMENT OF OTHER ITEMS (1)

4. LIGHT GAUGE METAL (1, 3) USED TO SUPPORT EXTERIOR CLADDING OR AS LOAD BEARING MEMBERS F. ITEMS MARKED (1) SHALL HAVE SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA. ITEMS MARKED (2) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. ITEMS MARKED (3) SHALL

HAVE DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

G. 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.

H. 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

I. REQUEST FOR INFORMATION SHALL BE ORIGINATE WITH 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.

J. 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.

STRUCTURAL SYMBOLS

SECTION NO.

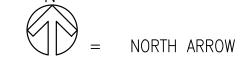
SECTION NO.

SCALE: 3/4" = 1'-0"

SHEET NO.

EL. XX'-X')

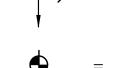
= ELEVATION MARK ON PLANS



— ELEVATION CALL OUT

= SPAN DIRECTION

= FILLED CELLS ON PLANS AND DETAILS



= TARGET ON PLAN AND DETAILS



= MOMENT CONNECTION



ANCHOD DOLT

4.B.	ANCHOR BOLT	LSH	LONG SIDE
A.C.I.	AMERICAN CONCRETE INSTITUTE	LSV	HORIZONTAL LONG SIDE
A.I.S.C.	AMERICAN INSTITUTE OF		VERTICAL
30TT.	STEEL CONSTRUCTION BOTTOM	L.S.H.	LONG SLOTTED HOLES
C or CL	CENTERLINE	MAX	MAXIMUM
C.J.	CONSTRUCTION JOINT	MECH	MECHANICAL
	OR CONTROL JOINT	MIN.	MINIMUM
C.M.U.	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN	O.C.	ON CENTER
CONC	CONCRETE	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
OIA	DIAMETER	PL or PL	PLATE
OWG	DRAWING	P.S.F.	POUNDS PER_
DWL	DOWEL		SQUARE FOOT
EA.	EACH	P.S.I.	POUNDS PER
E.F.	EACH FACE		SQUARE INCH
E.J.	EXPANSION JOINT	REINF	REINFORCE(D) (ING)
EL.	ELEVATION	REQ'D	REQUIRED
EQ.	EQUAL	STL	STEEL
E.W.	EACH WAY	STD	STANDARD
EXT	EXTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAGE, GAUGE	VERT	VERTICAL
GALV	GALVANIZE	WWR	WELDED WIRE REINFORCEMENT
HORIZ	HORIZONTAL	W/	WITH
JT	JOINT	,	



Orange County
Convention
Center
North/South
Building Projector
Modifications

Client
Orange County
Convention Center
P.O. Box 691509
Orlando, Florida 32869

Engineer:



Architect:



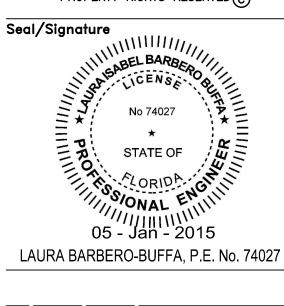
PH (407) 648 - 7288 FAX (407) 648 - 7289 AA 000 - 2809 www.rbarchitects.com

ORLANDO, FL 32801



CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027 4767 NEW BROAD STREET, #1018 ORLANDO, FLORIDA 32814 P: 407.442.2697 F: 407.454.7135

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GENERAL NOTES

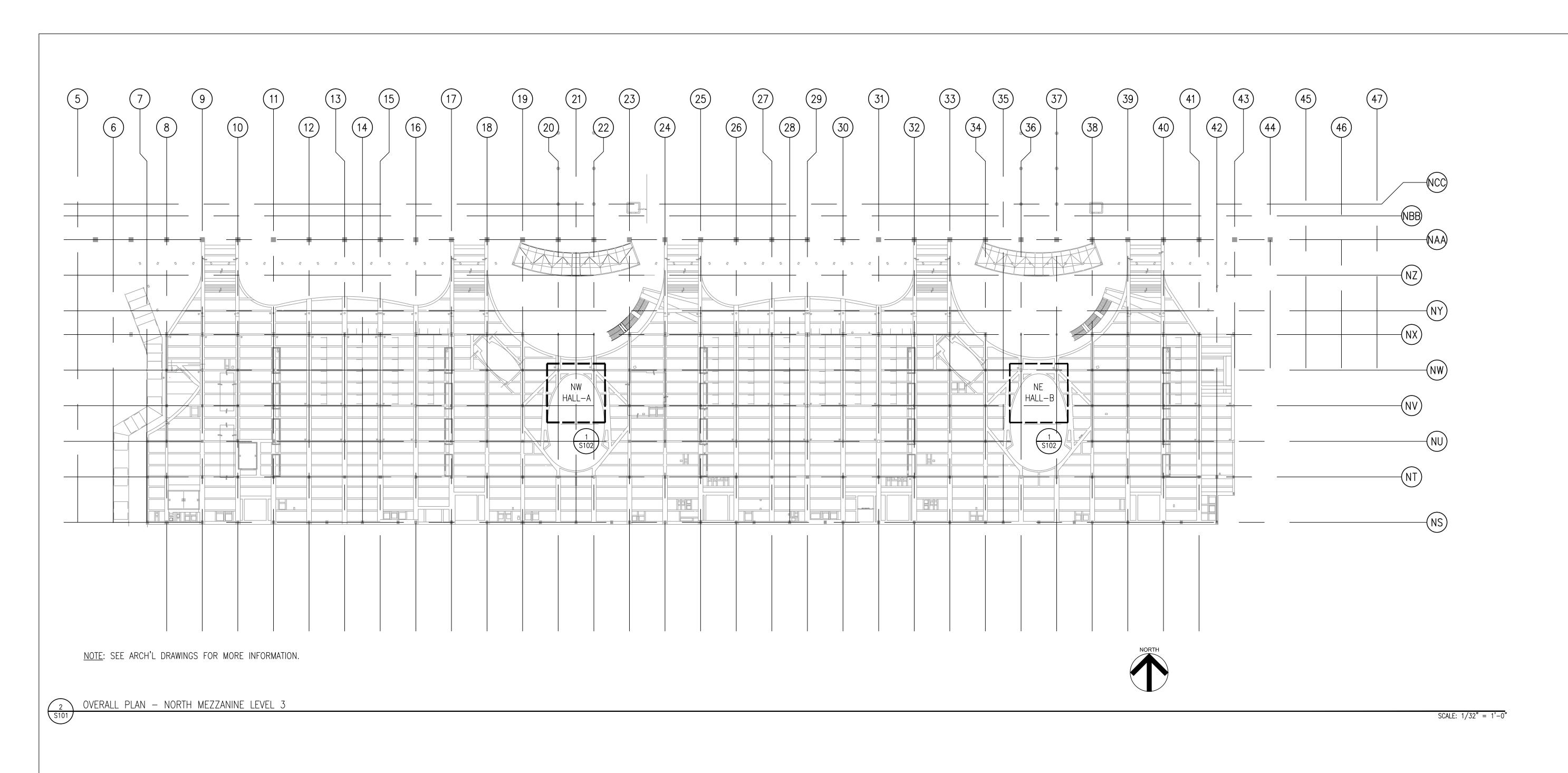
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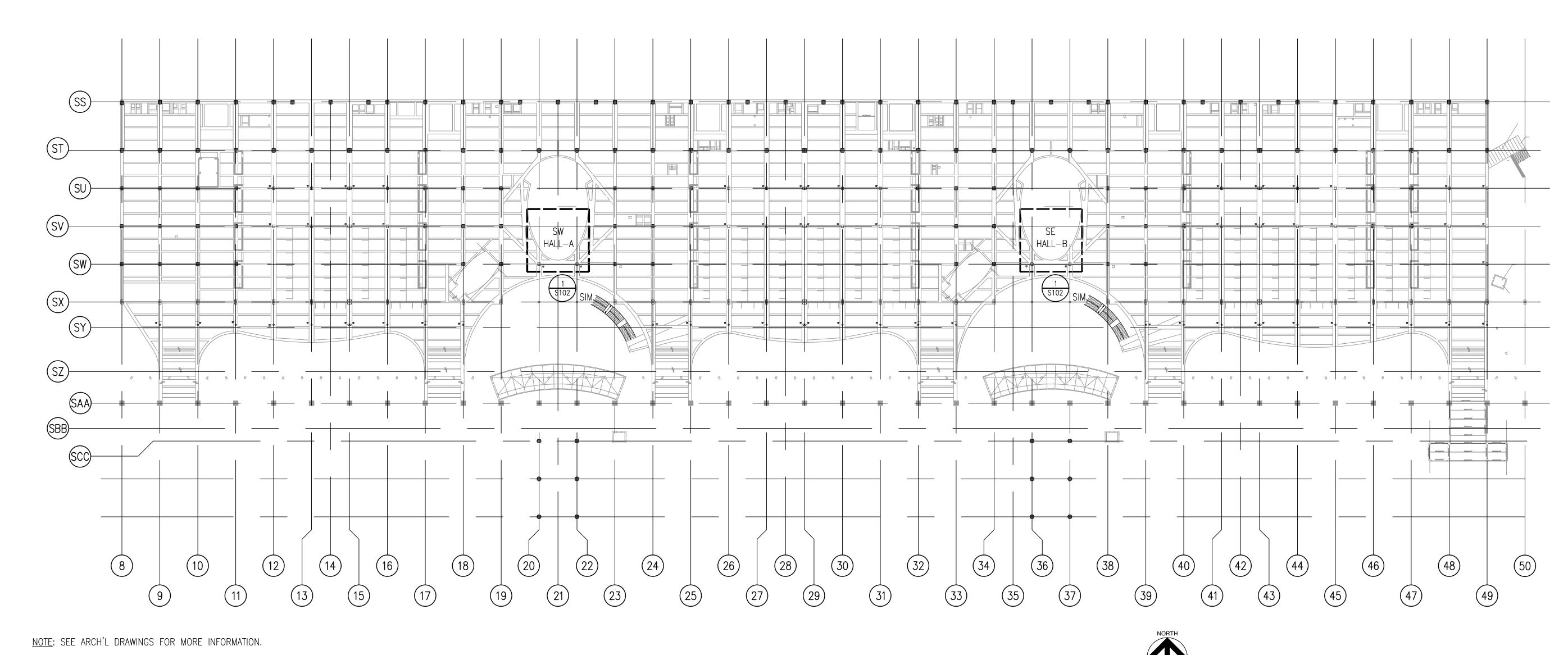
Job No. 14-564
Date JANUARY 6, 2015
Drawn NWC
Checked LBB

Scale AS SHOWN

100% CONSTRUCTION

**DOCUMENTS** 





100% CONSTRUCTION DOCUMENTS

SCALE: 1/32" = 1'-0"



Orange County Convention Center
North/South
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Modifications

Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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Architect:



601 N. MAGNOLIA AVENUE SUITE 100 ORLANDO, FL 32801

www . rbarchitects . com

Structural Engineer:



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STATE OF
CORIDA
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05 - Jan'- 2015
LAURA BARBERO-BUFFA, P.E. No. 74027

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No. By Date

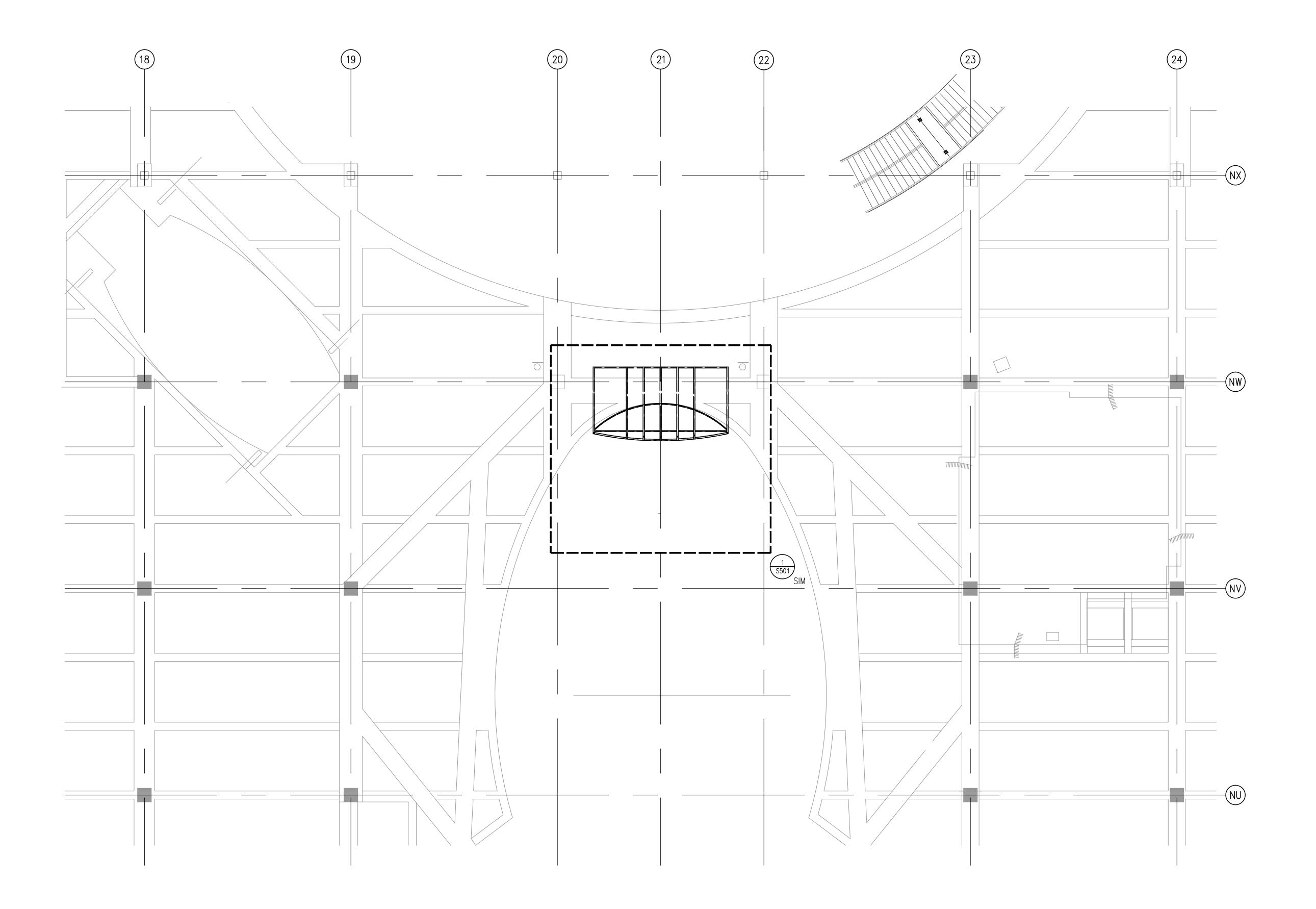
# STRUCTURAL **OVERALL** PLAN

Sheet Title Job No.

Sheet No.

14-564 JANUARY 6, 2015 Drawn Checked AS SHOWN Scale

OVERALL PLAN - SOUTH MEZZANINE LEVEL 3



NOTE: SEE ARCH'L DRAWINGS FOR MORE INFORMATION.



100% CONSTRUCTION DOCUMENTS



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North/South
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Convention Center
P.O. Box 691509
Orlando, Florida 32869

Engineer:



Architect:



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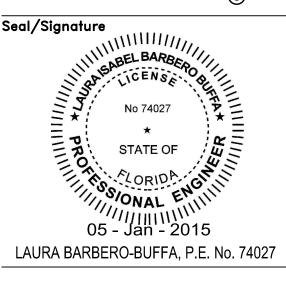
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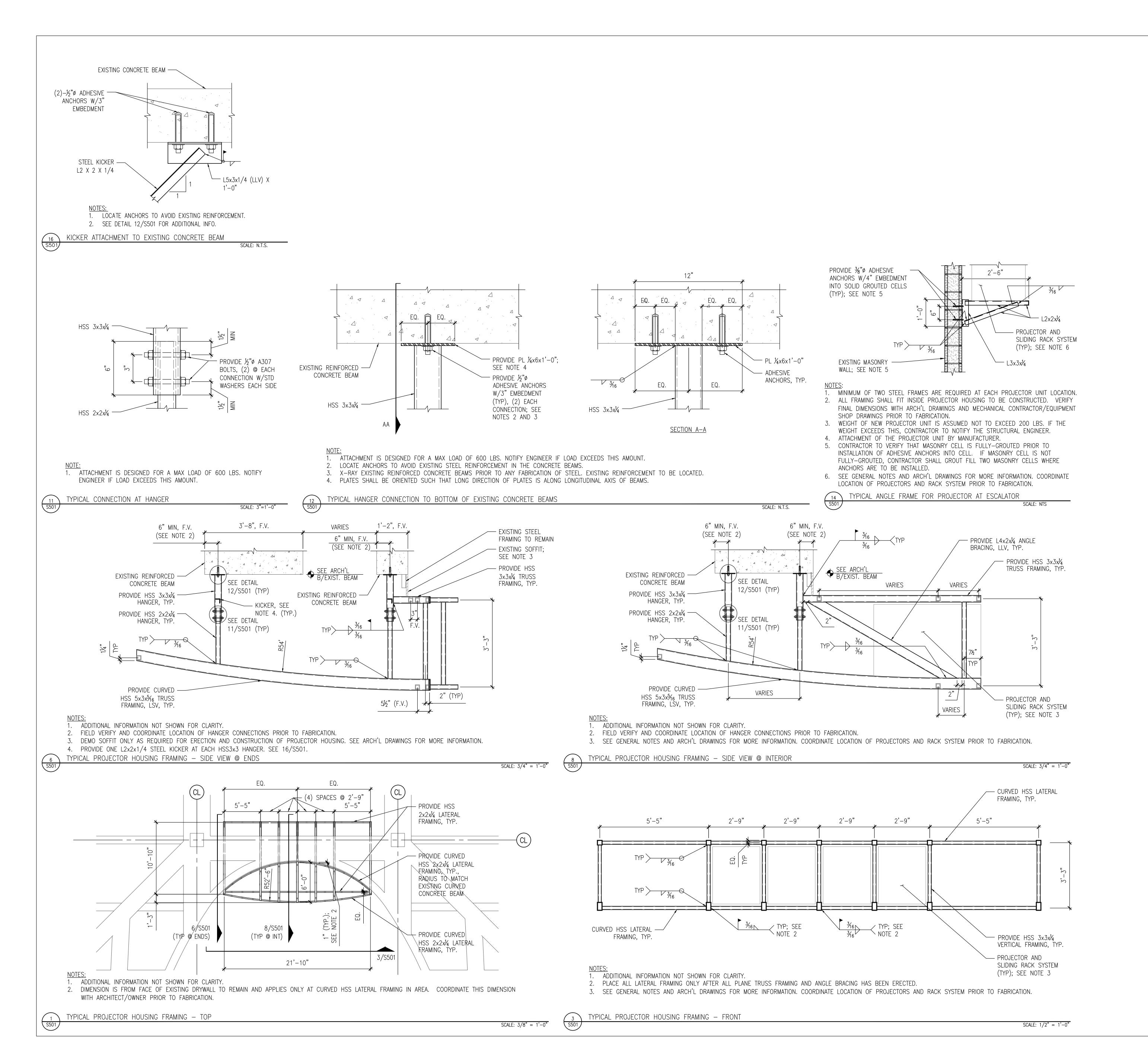
Job No. 14-564
Date JANUARY 6, 2015
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Scale AS SHOWN

S102

Sheet No.

1 ENLARGED PLAN S102

SCALE: 3/16" = 1'-0"



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Orange County Convention Center

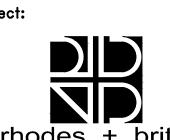
Orange County Convention Center North/South Building 'Projector Modifications

Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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Architect:



rhodes + brito 601 N. MAGNOLIA AVENUE SUITE 100 ORLANDO, FL 32801

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Structural Engineer:



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LAURA BARBERO-BUFFA, P.E. No. 74027
LAURA BARBERO-BUFFA, F.E. No. 14021

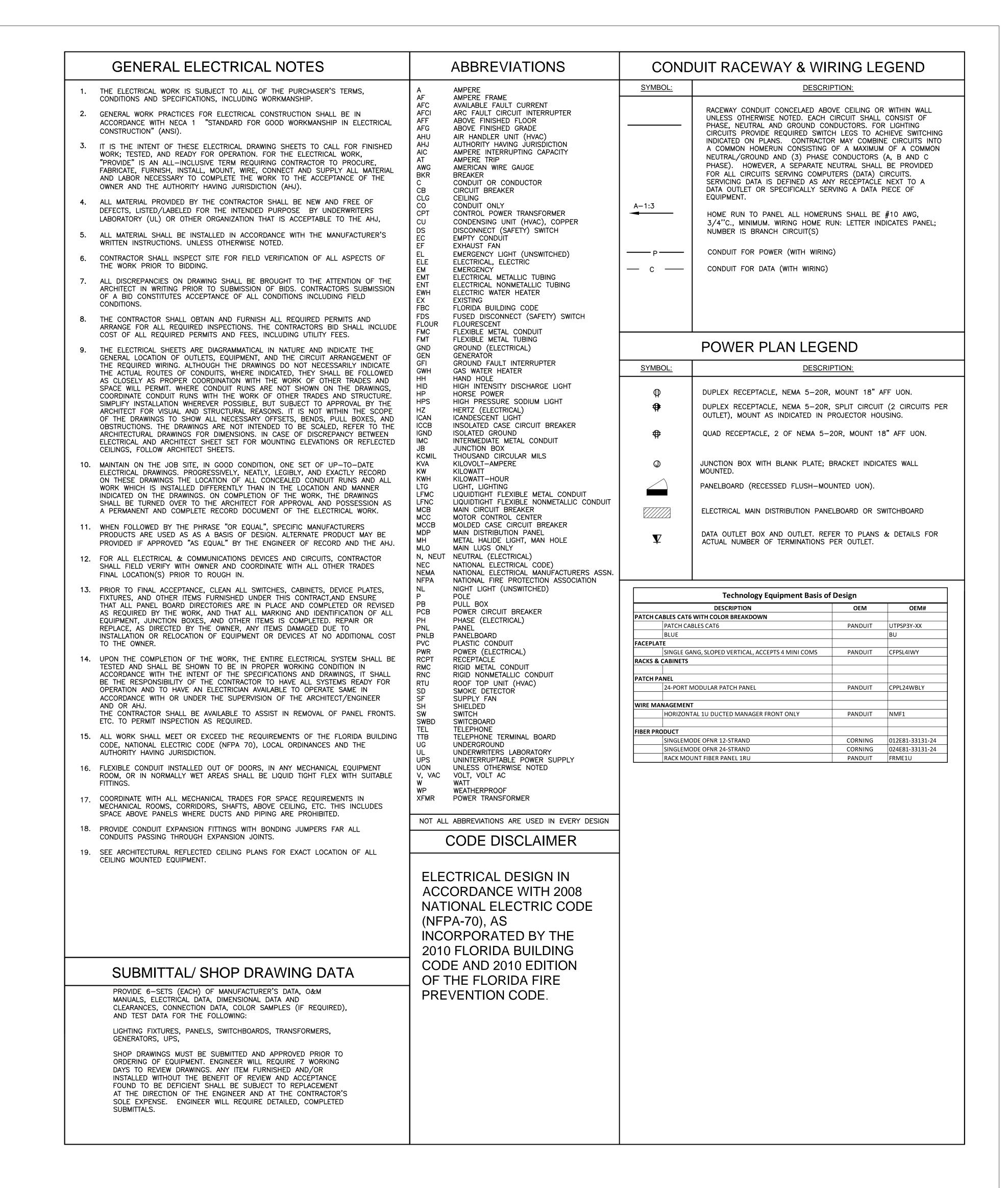
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STRUCTURAL DETAILS

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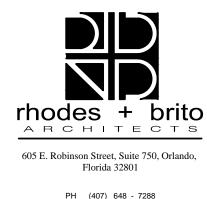


Client
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Convention Center
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Orlando, Florida 32869

Engineer:



Architect:



BASE

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CERTIFICATE OF AUTHORIZATION No.
27343
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74027

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ELECTRICAL LEGEND AND GENERAL INFORMATION

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Date January 6, 2014
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Sheet No

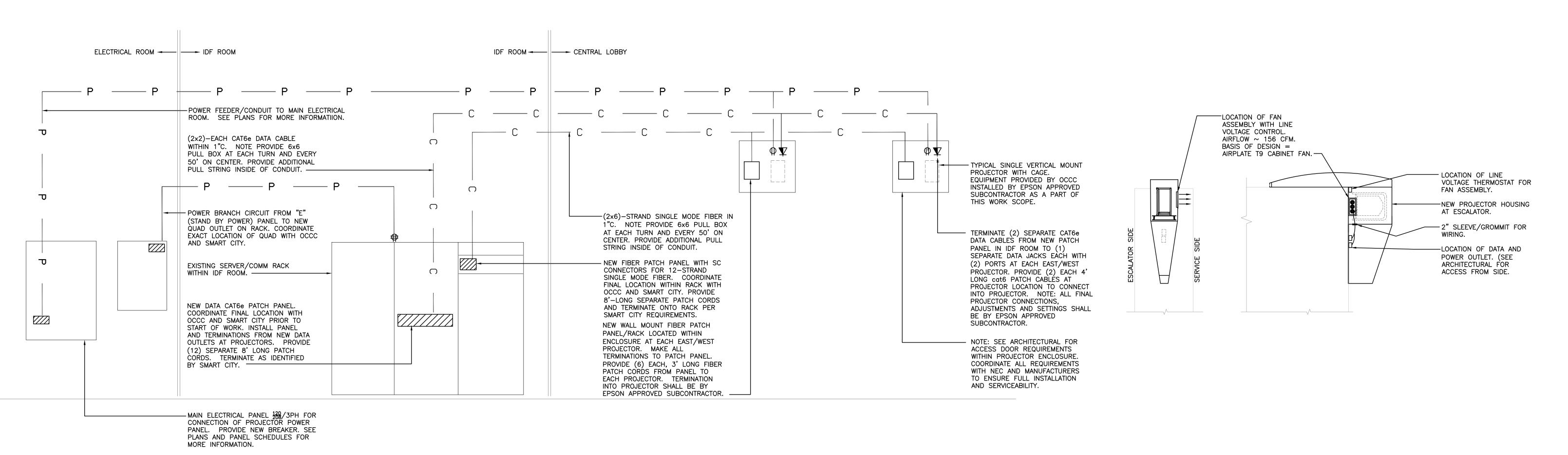
Scale

## TYPICAL DETAIL OF MEZZANINE PROJECTOR INSTALLATION

PANEL. PROVIDE NEW BREAKER. SEE

PLANS AND PANEL SCHEDULES FOR

MORE INFORMATION.



TYPICAL DETAIL OF ESCALATOR PROJECTOR INSTALLATION



Orange County
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North/South Building
Digital Advertising
Projector

Modifications

Client
Orange County
Convention Center
P.O. Box 691509
Orlando, Florida 32869

Engineer:



Architect:



BASE

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PROJECTOR INSTALLATION DETAILS

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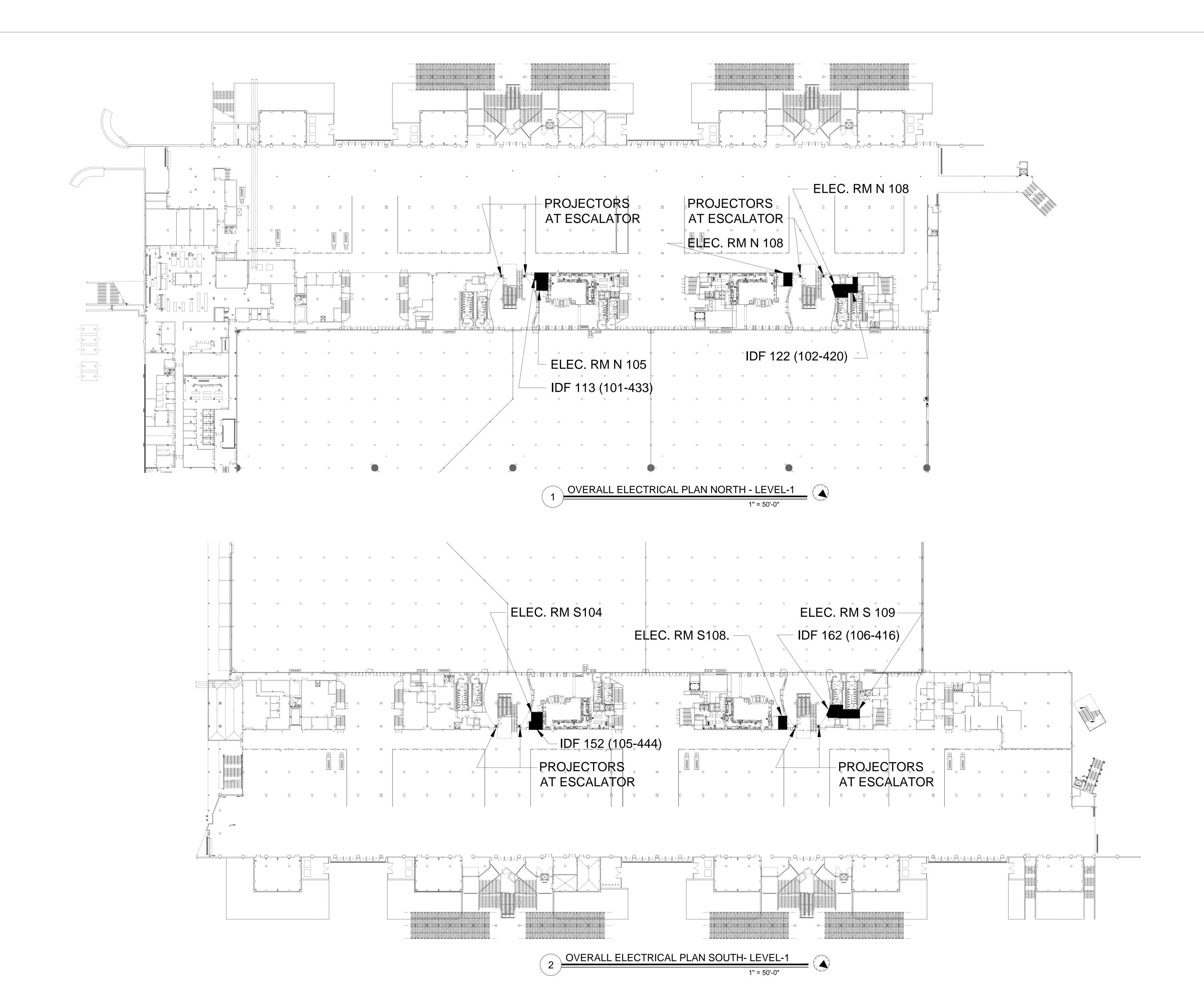
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Date January 6, 2014

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E1.002





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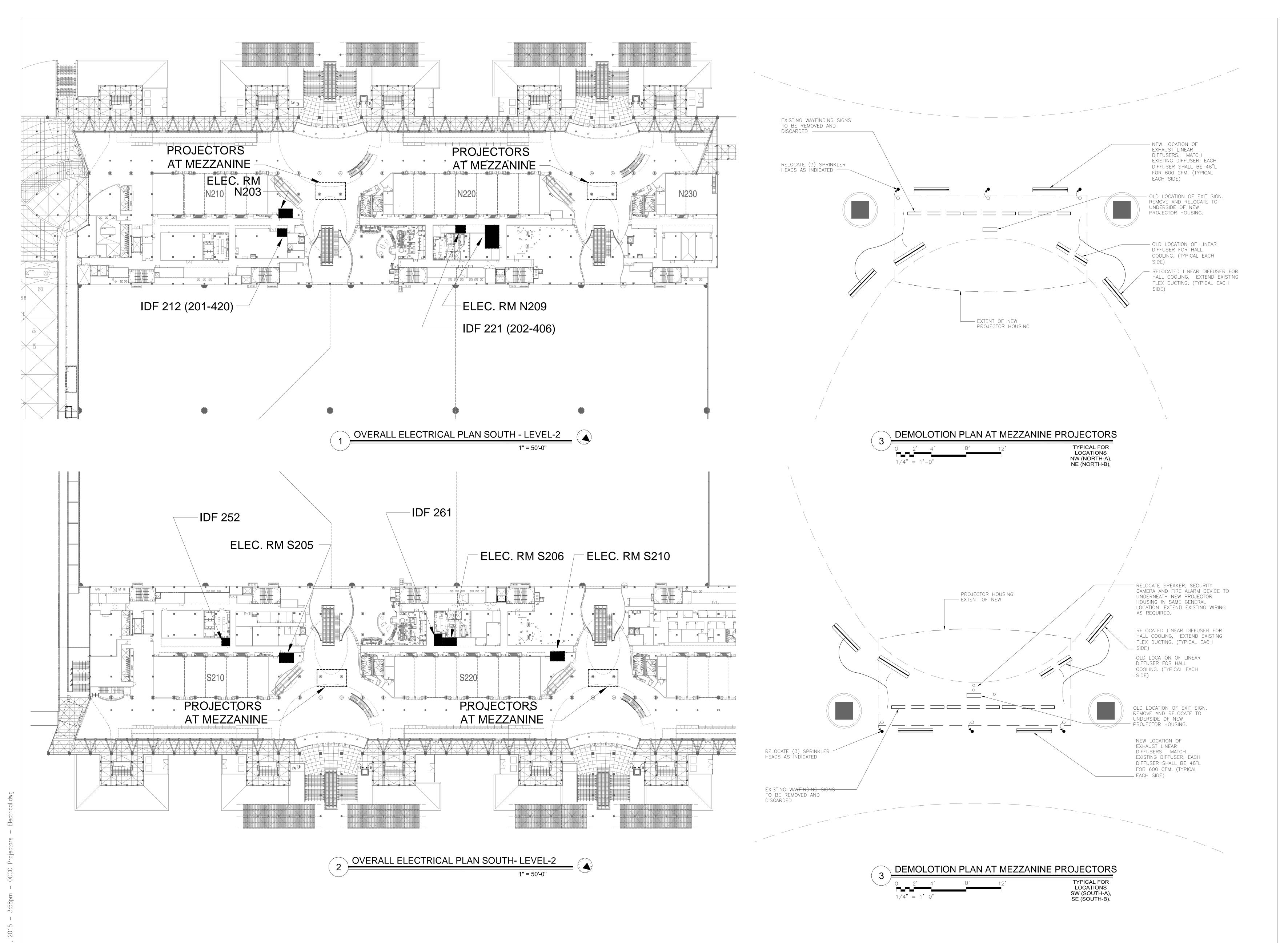
ELECTRICAL

FLOOR PLANS LEVEL-1

Job No. 14-564
Date January 6, 2014
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OVERALL ELECTRICAL PLANS LEVEL-2

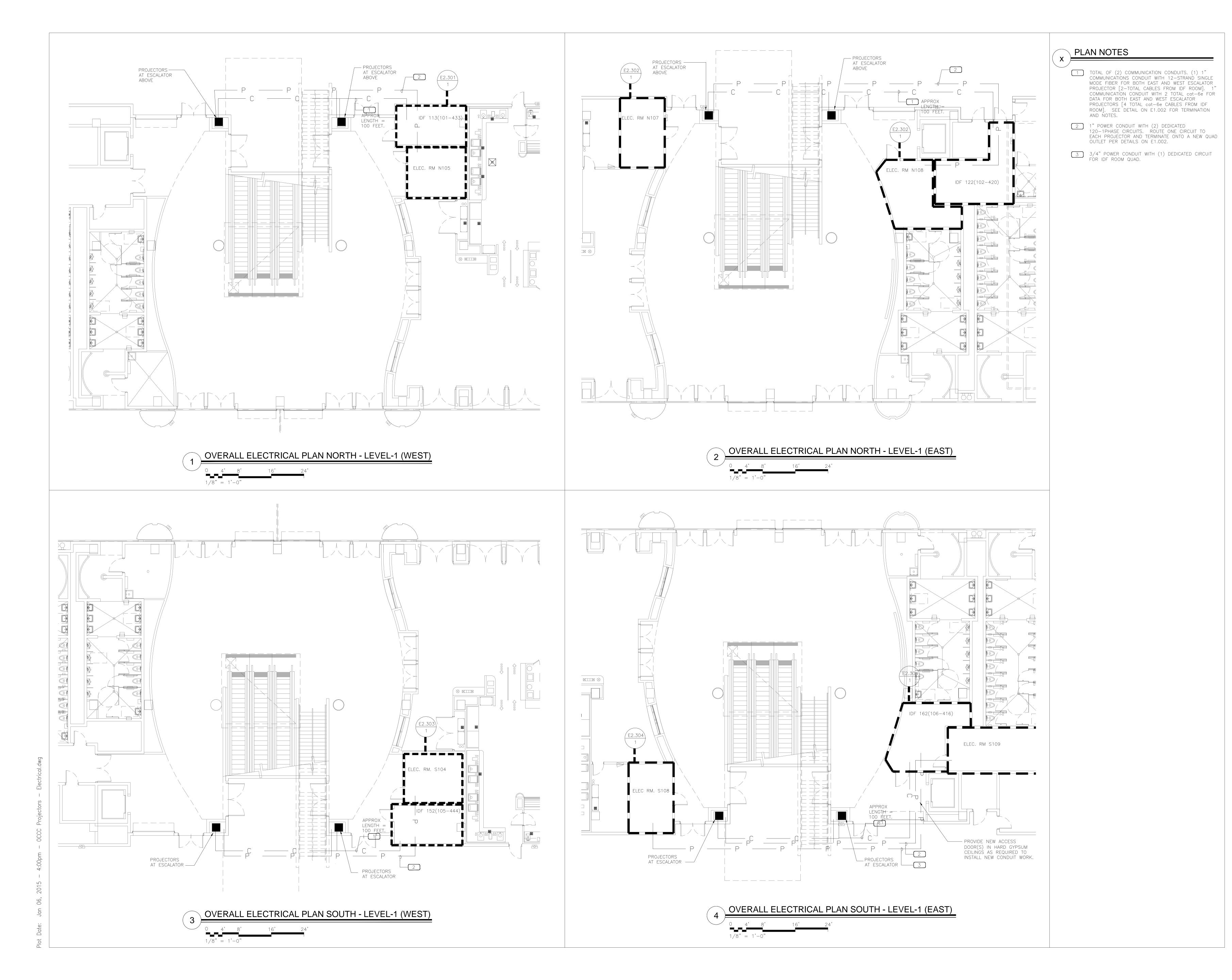
Job No. 14-564
Date January 6, 2014
Drawn

E2.102

Scale \_\_\_\_

Sheet No.

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Client Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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BULAN

ENGINEERING

925 S Semoran Blvd | Suite 100 |
Winter Park, Fl 32792
407.678.2055
Certificate of Authorization #26271

Architect:



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ENLARGED ELECTRICAL PLANS LEVEL-1

Sheet Title
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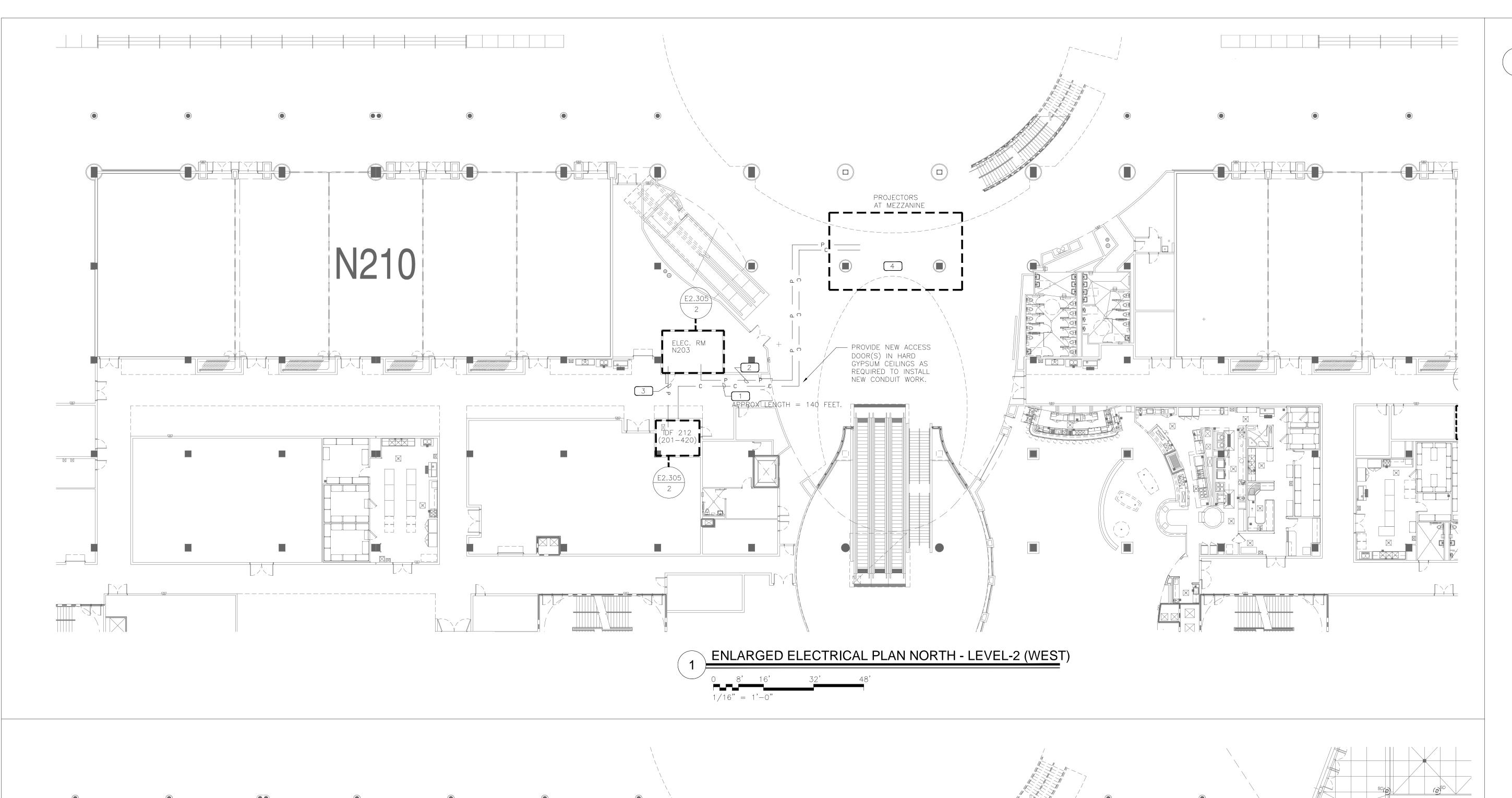
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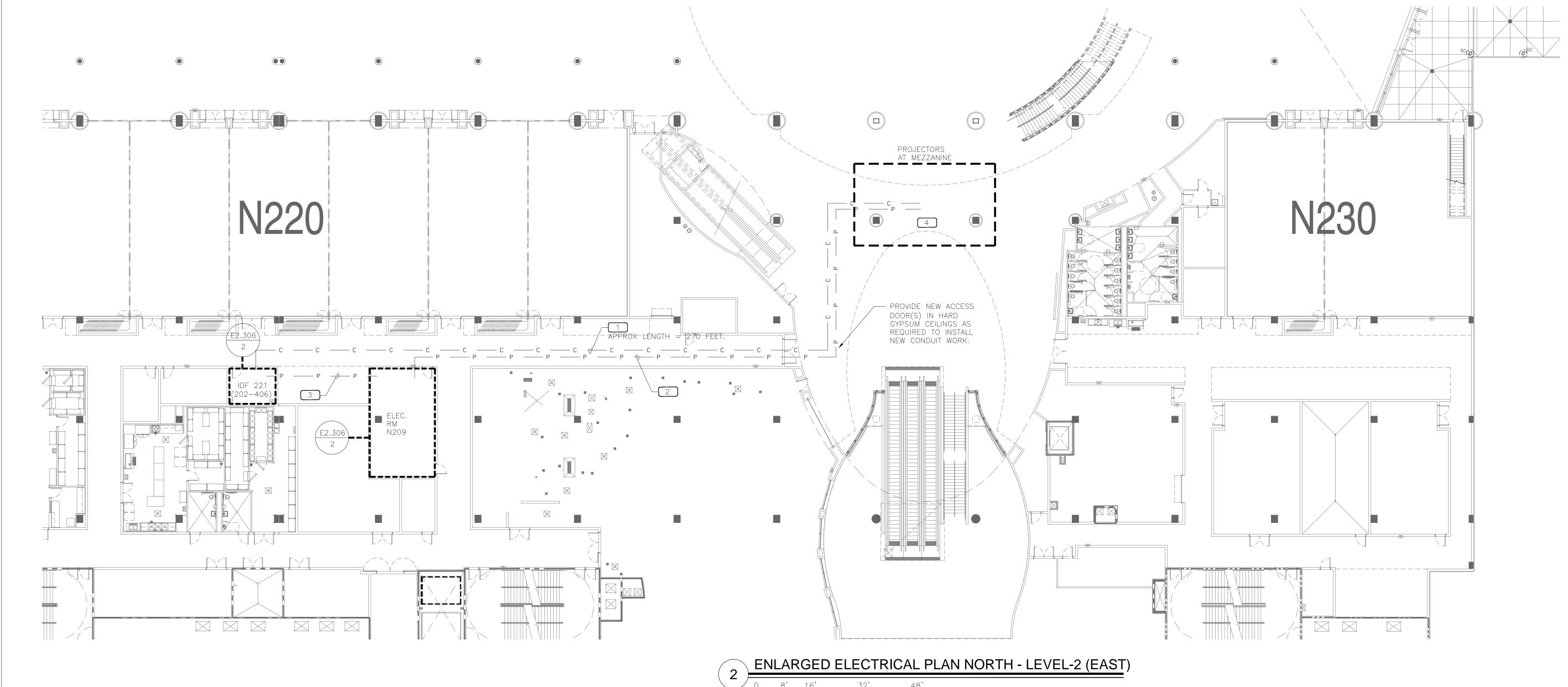
Job No. 14-564

Date January 6, 2014

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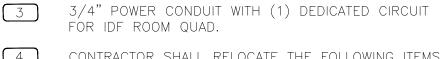




1/16" = 1'-0"



- TOTAL OF (2) COMMUNICATION CONDUITS. (1) 1"
  COMMUNICATIONS CONDUIT WITH 12-STRAND SINGLE
  MODE FIBER FOR MEZZANINE PROJECTORS. 2"
  COMMUNICATION CONDUIT WITH 12 TOTAL cat-6e FOR
  DATA FOR MEZZANINE PROJECTORS. SEE DETAIL ON
  E1.002 FOR TERMINATION AND NOTES.
- 2 1-1/2" POWER CONDUIT WITH NEW FEEDER TO LOAD CENTER WITHIN MEZZANINE PROJECTOR ASSEMBLY.



• (1) SPEAKER

CONTRACTOR SHALL RELOCATE THE FOLLOWING ITEMS
TO ACCOMMODATE SPACE FOR NEW MEZZANINE
MOUNTED PROJECTOR HOUSING:

(1) EXIT SIGN
(2) LINEAR DIFFUSERS
(3) FIRE SPRINKLERS
(1) FIRE ALARM DEVICE

CONTRACTOR SHALL ENGAGE NECESSARY SUBCONTRACTORS AND CREATE A FULL COORDINATED SHOP DRAWING INDICATING LOCATION OF EXISTING DEVICES, DUCTWORK, ETC. AND PROPOSED LOCATION OF NEW RELOCATED DEVICES IN CONJUNCTION WITH THE NEW PROJECTOR HOUSING LIMITS.



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Digital Advertising
Projector
Modifications

Client Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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Architect:



Florida 32801

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605 E. Robinson Street, Suite 750, Orlando,



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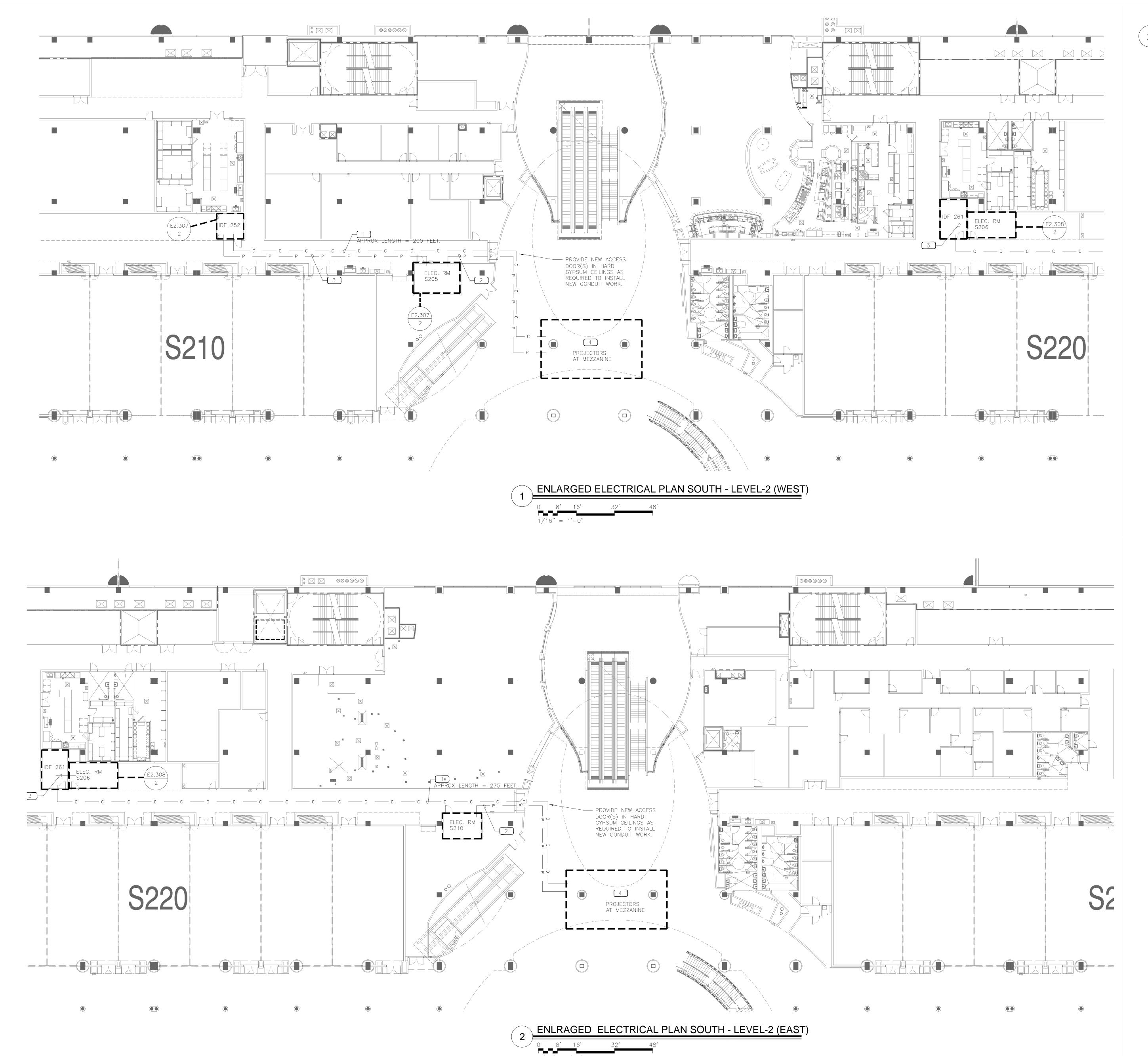
ENLARGED ELECTRICAL PLANS LEVEL-2

Sheet Title

Job No. 14-564
Date January 6, 2014
Drawn

Drawn Checked Scale

E2.202





TOTAL OF (2) COMMUNICATION CONDUITS. (1) 1"
COMMUNICATIONS CONDUIT WITH 12-STRAND SINGLE
MODE FIBER FOR MEZZANINE PROJECTORS. 2"
COMMUNICATION CONDUIT WITH 12 TOTAL cat-6e FOR
DATA FOR MEZZANINE PROJECTORS. SEE DETAIL ON
E1.002 FOR TERMINATION AND NOTES.

2 1-1/2" POWER CONDUIT WITH NEW FEEDER TO LOAD CENTER WITHIN MEZZANINE PROJECTOR ASSEMBLY.

3/4" POWER CONDUIT WITH (1) DEDICATED CIRCUIT FOR IDF ROOM QUAD.

4 CONTRACTOR SHALL RELOCATE THE FOLLOWING ITEMS
TO ACCOMMODATE SPACE FOR NEW MEZZANINE
MOUNTED PROJECTOR HOUSING:

(1) EXIT SIGN
(2) LINEAR DIFFUSERS
(3) FIRE SPRINKLERS
(1) FIRE ALARM DEVICE

• (1) SPEAKER

CONTRACTOR SHALL ENGAGE NECESSARY
SUBCONTRACTORS AND CREATE A FULL COORDINATED
SHOP DRAWING INDICATING LOCATION OF EXISTING
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THE NEW PROJECTOR HOUSING LIMITS.



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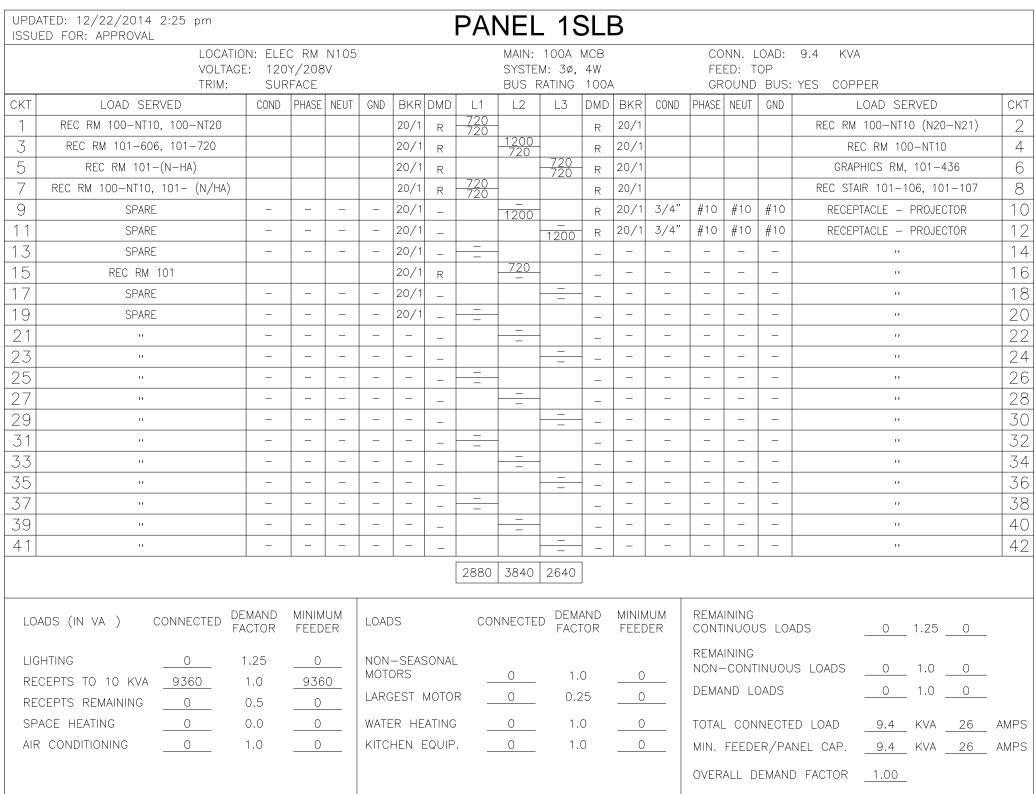
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ENLARGED ELECTRICAL PLANS LEVEL-2

Job No. 14-564
Date January 6, 2014

Date Ja Drawn Checked Scale

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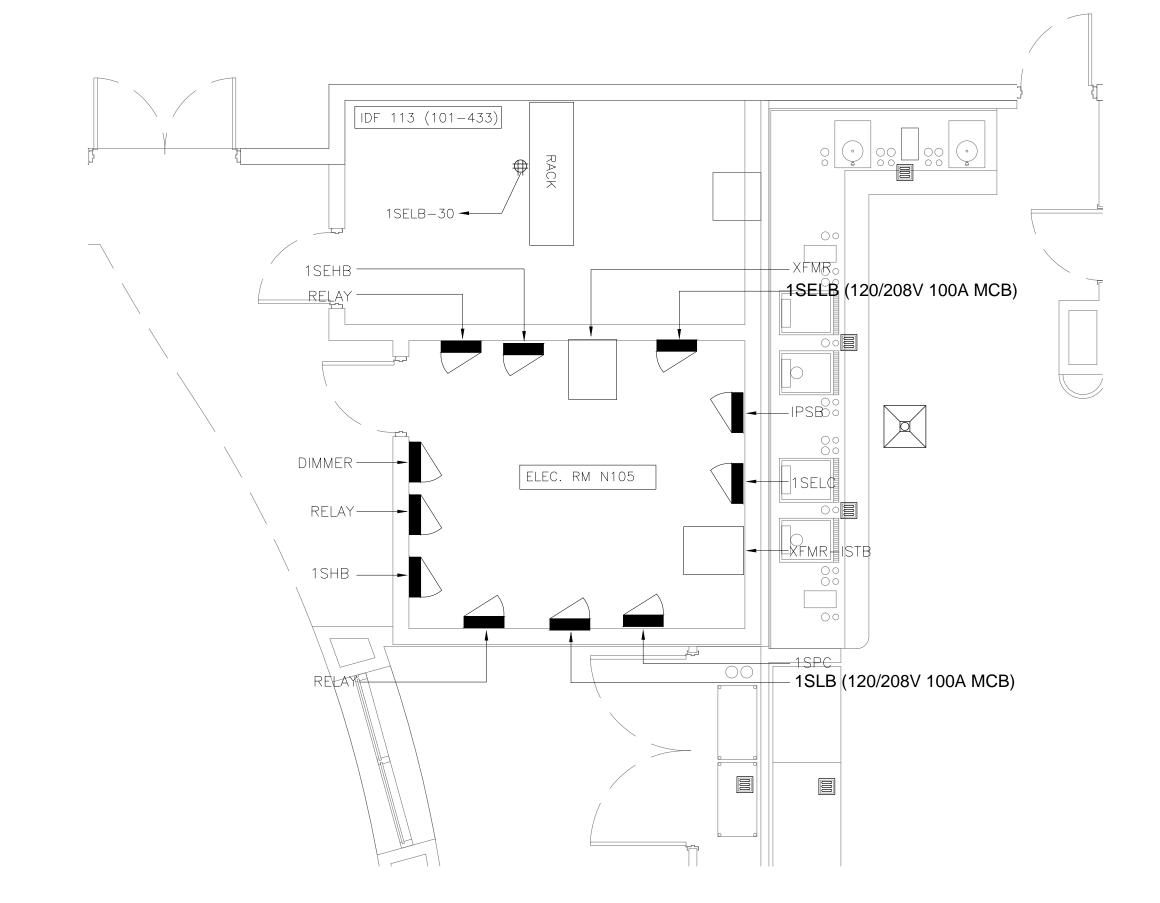
PROVIDE NEW BREAKERS FOR CIRCUIT 10, 12..

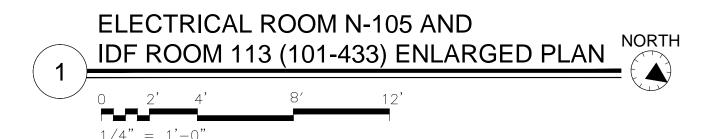
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СКТ	LOAD SERVED	COND P	HASE NI	EUT GND	BKR	DMD	1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND		LOAD SE	RVED		Ch
1	REC RM 101-435				20/1	R	720 720			R	20/1					CCTV	PANEL RI	√ 101−	433	2
3	EXCL NE-5/ REC RM 101- N/HA				20/1	R		720 720		R	20/1					AUDIO VIS	UAL PANE	L RM 1	01-433	5 4
5	EXCL NE-5/ REC RM 101- N/HA				20/1	R			720 720	R	20/1					REC	IDF ROOM	1 101-4	433	6
7	EXCL NE-5/ REC RM 101- N/HA				20/1	R	720 720			R	20/1					REC	IDF ROOM	1 101-4	433	8
9	ELEC LOCK - ROOM 100-NT-20				20/1	R	7.23	50 720		R	20/1					REC	IDF ROOM	1 101-4	433	1
11	MOTOR DOOR - ROOM 100-NT-20				20/1	R		7.20	50 720	R	20/1					REC	IDF ROOM	1 101-4	433	1
13 ELEC LOCK - ROOM 100-NT-20					20/1	R	50 720		1 2 3	R	20/1					REC	IDF ROOM	1 101-4	433	1
15 DOOR HOLD - ROOM 101-464					20/1	R	7.20	50 720		R	20/1					REC	IDF ROOM	1 101-4	433	1
17 ELEC LOCK - ROOM 101-438 19 MOTOR DOOR - ROOM 101-438				20/1	20/1 R		7.20	50 50	R	20/1					SECURIT	Y PANEL	PANEL RM 101-433	1-433	1	
			20/1 R					R	R 20/1					FIRE ALA	RM PANEL	. RM 10	01-433	2		
21	21 EMG LTG RELAY RM 101-435			20/1 L			900 720		R 20/1					REC IDF ROOM 101-433				2		
23	EMG LTG RELAY RM 101-435				20/1 L 20/1 L				900	R	20/1					VAV/FPB CONT XFMR RM 101-4			101-435	5 2
25	EMG LTG RELAY RM 101-435									R	20/1				FIRE	FIRE RELEASE DOOR NE		N8	2	
27	EMG LTG RELAY RM 101-435				20/1	L	900 50	900		_	20/1	_	_	_	-		SPARI	E		2
29	EMG LTG RELAY RM 101-435				20/1	L			900 1500	R	20/1	3/4"	#12	#12	#12	QUAD O	JTLET - II	DF ROO	M 113	3
							4700	5500	5660											
LO			MINIMUN FEEDER		DS		CO	NNECTE	DEM FAC		MINIM FEED		REMA CONT		JS LO	ADS	0	1.25	0	
	<del></del>	_	5625	-   мот	I—SEAS	SONA		0	1.	0	0		REMA NON-		INUOL	JS LOADS	0	1.0	0	_
	<del></del>	_	10000	_	GEST	MOTO		0			0		DEMA	ND L	SDAC		0	1.0	0	
		_	680	-																
	<del></del>	0.0	0	-	ER HE			0			0		TOTAL	_ CON	INECTE	ED LOAD	_15.9_	KVA .	_44.1_	AMP
AIR	CONDITIONING 0	1.0 _	0	_ KITC	HEN E	EQUIF	· _	0	1.	0	0		MIN.	FEED	ER/PA	NEL CAP.	_16.3_	KVA	45.3	. AMP
													OVED.	AII F		D FACTOR	1 07			

PROVIDE NEW BREAKERS FOR CIRCUIT 30.



COORDINATE EXACT LOCATION OF IDF ROOM QUAD OUTLET WITH OCCC AND SMART CITY PRIOR TO START







Orange County
Convention Center
North/South Building
Digital Advertising
Projector
Modifications

Client Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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Architect:



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No. By Date Issued for

ENLARGED ELECTRICAL & IDF ROOM PLANS

Sheet Title

Scale

Job No. 14-564
Date January 6, 2014
Drawn
Checked

E2.301

NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 36, 38

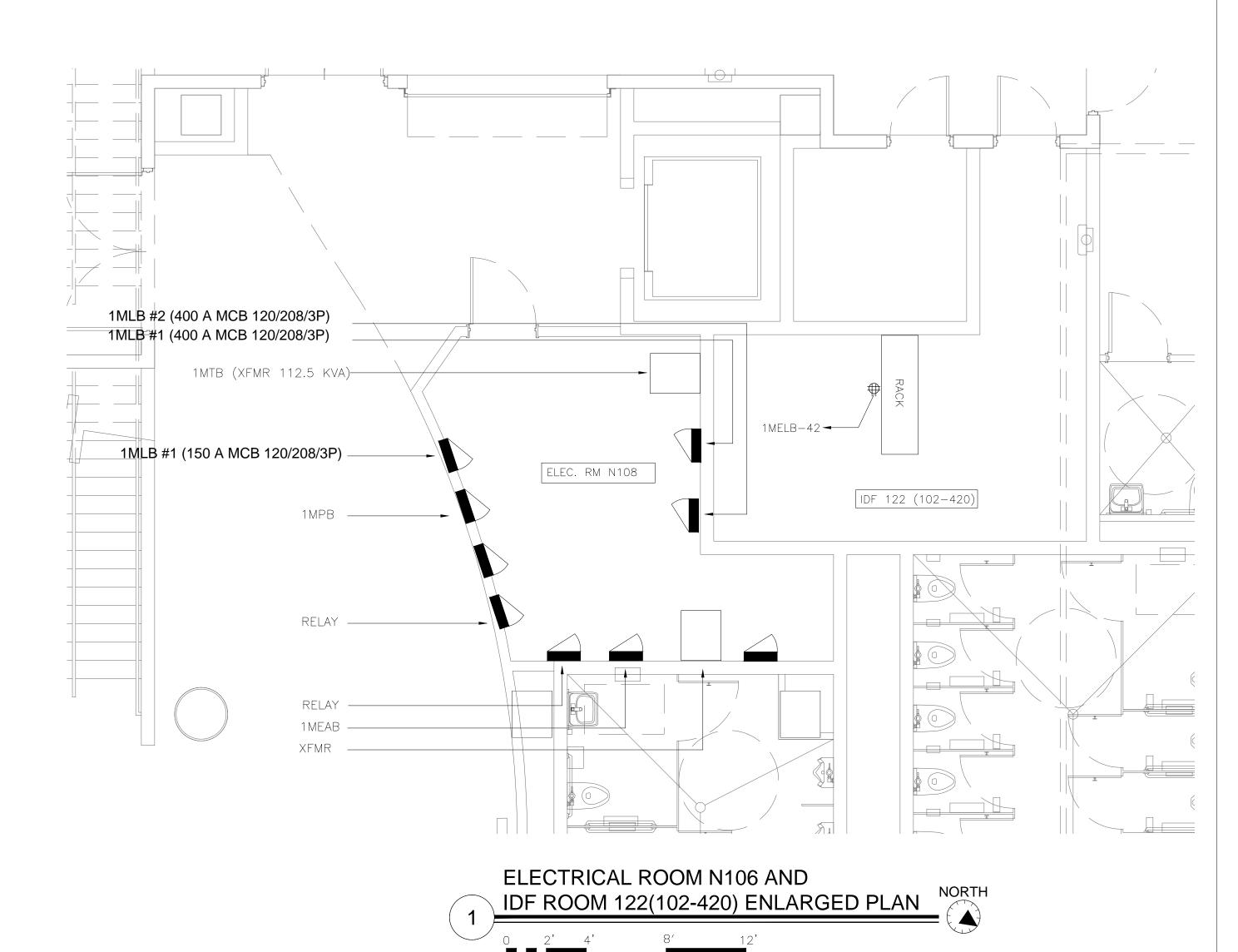
	ED: 12/22/2014 4:10 pm D FOR: APPROVAL	1				PAI	NEL	_ 11	ИE	LB					
100021	L(	DCATION: ELE DLTAGE: 120 RIM: SUF		3			MAIN: SYSTEI BUS F	M: 3ø,	4W	4		CONN. L FEED: T GROUND	OP	24.5 KVA YES COPPER	
CKT	LOAD SERVED	COND	PHASE NEUT	GND E	KR DMI	D L1	L2	L3	DMD	BKR	COND	PHASE NEUT	GND	LOAD SERVED	CKT
1	REC RM 102-422			20	0/1 R	720 720			R	20/1				REC RM 102-421	2
3	REC RM 102-422			20	0/1 R	720	720 720		R	20/1				REC RM 102-421	4
5	REC RM 102-422			20	0/1 R		720	720 720	R	20/1				RDR REC RM 102-421	6
7	REC RM 102-422			20	0/1 R	720 720		, 20	R	20/1				REC IDF RM RM 102-421	8
9	REC RM 102-422			20	D/1 R	, 20	720 720		R	20/1				REC IDF RM RM 102-421	1 C
11	ELEV PIT LTG & REC NP-	5		20	D/1 R		,	720 720	R	20/1				REC IDF RM RM 102-421	12
13	REC RM 102-419			20	0/1 R	720 720			R	20/1				REC IDF RM RM 102-421	14
15	ELEV NP-6 FAN RM 102-4	19		20	0/1 R		720 720		R	20/1				REC IDF RM RM 102-421	16
17	ELEV NP-6 FAN RM 102-4	19		20	0/1 R			720 720	R	20/1				REC IDF RM RM 102-421	18
19	FACP 3/5 RM 102-422			20	0/1 R	720 720			R	20/1				CK REC IDF RM RM 102-421	20
21	FACP 3/5 RM 102-422			20	0/1 R		720 720		R	20/1				SECURITY PANEL RM 102-420	22
23	SPARE			20	0/1 _			- 720	R	20/1				CCTV CABINET RM 102-420	24
25	MOTOR DOOR RM 102-*(N/H	IB)		20	0/1 R	720 720			R	20/1				REC IDF RM 102-420	26
27	ELEC LOCK 100-NT30			20	0/1 R		720 720		R	20/1				REC IDF RM 102-420	28
29	SPARE			20	0/1 _			 720	R	20/1				VAV CONTROL XFMR RM 102-418	30
31	SPARE			20	0/1 _				_	20/1				SPARE	32
33	REC RM 102-432			20	0/1 R		720		_	20/1				SPARE	34
35	FACP 4 RM 102-422			20	0/1 R			720	_	20/1				SPARE	36
37	FACP 4 RM 102-422			20	0/1 R	720			_	20/1				SPARE	38
39	REC RM 102-418			20	0/1 R		720		_	20/1				SPARE	40
41	SPACE				-   -			_ 1500	R	20/1	3/4"	#12 #12	#12	QUAD OUTLET-IDF RM 122	42
	INTEF	RUPT RATING:				7920	8640	7980				FROM:			
LOAD	S (IN VA) CONNECTE	D DEMAND FACTOR	MINIMUM FEEDER	LOADS		CC	NNECTED	DEM FAC		MINIMU FEEDE		REMAINING CONTINUOL	IS LOA	ADS <u>0</u> 1.25 <u>0</u>	
LIGH	TING 0	1.25	0	NON-S		AL.		,	0	^		REMAINING NON-CONT	INUOL	US LOADS 0 1.0 0	
REC	EPTS TO 10 KVA 10000	1.0	10000	MOTOR		_	0	1.		0		DEMAND LO		0 1.0 0	
REC	EPTS REMAINING 14540	0.5	_7270_	LARGES	ol MOT	JK _	0	0.2	∠5	0	—	2 2 10			
SPA	CE HEATINGO	0.0	0	WATER	HEATIN	IG _	0	1.	0	0	[	TOTAL CON	NECTE	ED LOAD <u>24.5</u> KVA <u>68.2</u>	AMPS
AIR	CONDITIONING 0	1.0	0	KITCHE	n Equi	P	0	1.	0	0		MIN. FEEDE	ER/PA	NEL CAP. <u>17.3</u> KVA <u>48</u>	AMPS
												OVERALL D	EMAN[	D FACTOR <u>0.70</u>	

NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 42



OF WORK.

COORDINATE EXACT LOCATION OF IDF ROOM QUAD OUTLET WITH OCCC AND SMART CITY PRIOR TO START





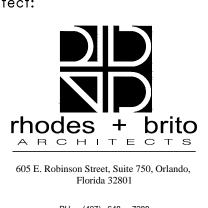
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ENLARGED ELECTRICAL & IDF

**ROOM PLANS** 

neet Title

Job No. 14-564

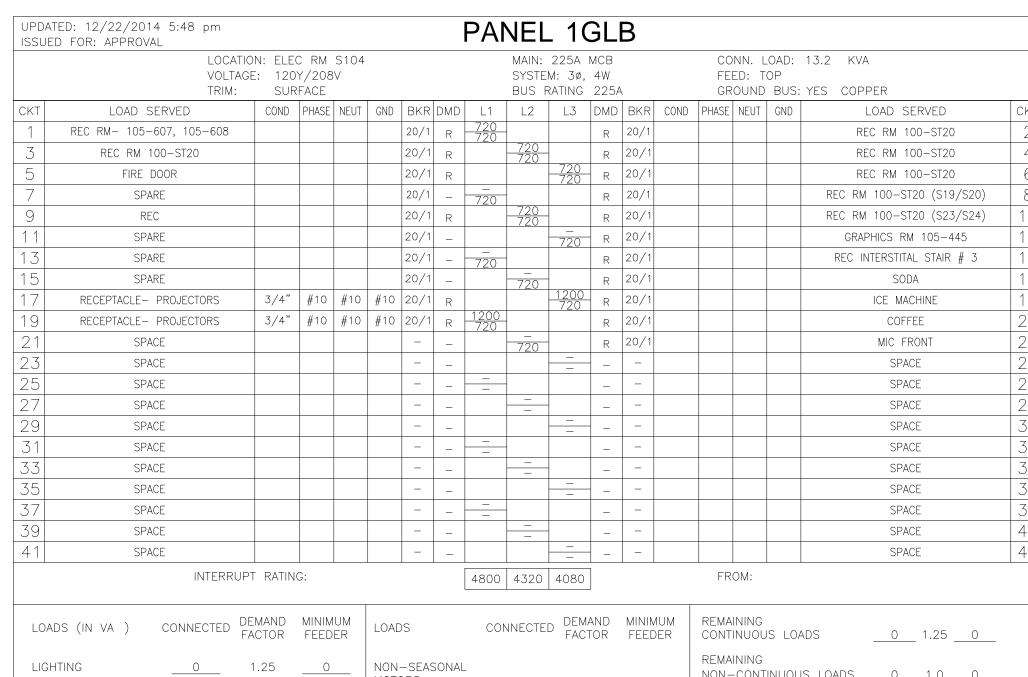
Date January 6, 2014

Drawn

Checked

Scale \_\_\_\_\_

E2.302



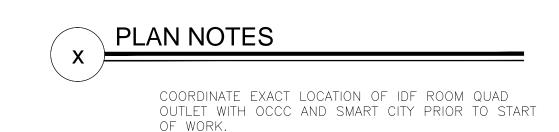
 
 LIGHTING
 \_\_O
 1.25
 \_O
 NON—SEASONAL MOTORS
 \_O
 1.0
 \_O

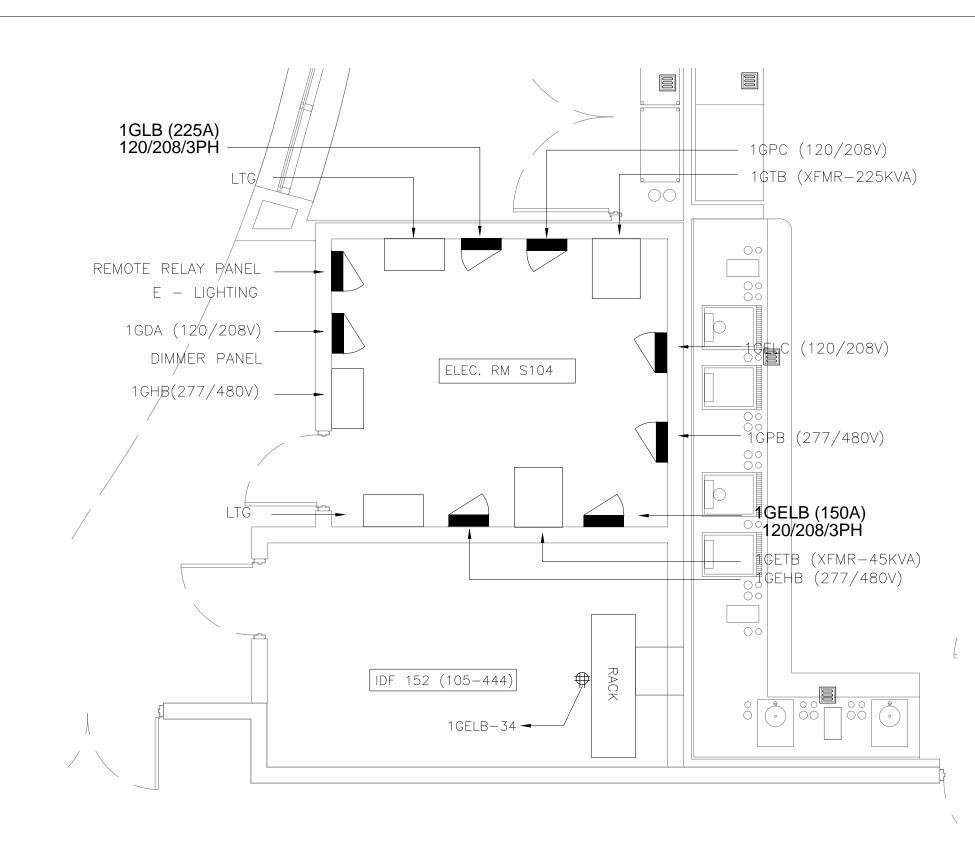
 RECEPTS TO 10 KVA
 10000
 1.0
 10000
 LARGEST MOTOR
 \_O
 1.0
 \_O
 NON-CONTINUOUS LOADS 0 1.0 0 
 SPACE HEATING
 0
 0.0
 WATER HEATING
 0
 1.0
 0
 TOTAL CONNECTED LOAD
 13.2
 KVA
 36.7
 AMPS
 AIR CONDITIONING \_\_O\_\_ 1.0 \_\_O\_\_ KITCHEN EQUIP. \_\_O\_\_ 1.0 \_\_O\_\_ MIN. FEEDER/PANEL CAP. \_\_11.6 KVA \_\_32.2 AMPS OVERALL DEMAND FACTOR <u>0.88</u>

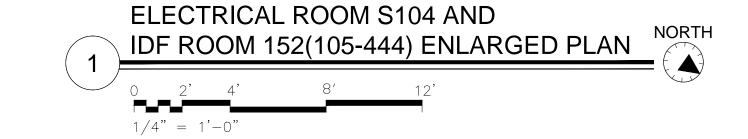
NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 17, 19

	ED: 12/22/2014 4:47 pm D FOR: APPROVAL						PAI	VEL	_ 10	ЭE	LB	1					
	LOCATIO	E: 120	C RM S104 DY/208V RFACE	1				SYSTE	150A M: 3ø, RATING	4W	4		FE	ED: T	OP	22.4 KVA YES COPPER	
CKT	LOAD SERVED	COND	PHASE NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	REC RM 105-442				20/1	R	720 720			R	20/1					CCTV CABINET RM 105-444	2
3	ESCAL (SE-3) LT/REC				20/1	R	720	720 720		R	20/1					AUDIO/VISUAL, CAB, RM 105-444	4
5	ESCAL (SE-4) LT/REC				20/1	R		, 20	720 720	R	20/1					IG REC RM 105-444	6
7	ESCAL (SE-5) LT/REC				20/1	R	720 720			R	20/1					IG REC RM 105-444	8
9	ELECT LOCK STAIR 504				20/1	R		720 720		R	20/1					IG REC RM 105-444	10
11	MOTOR DOOR STAIR 504				20/1	R			720 720	R	20/1					IG REC RM 105-444	12
13	HOLD OPEN RM 105-418				20/1	R	720 720			R	20/1					IG REC RM 105-444	14
15	HOLD OPEN RM 105-418				20/1	R		720 720		R	20/1					IG REC RM 105-444	16
17	HC ELECT LOCK RM 100-SP20				20/1	R			720 720	R	20/1					SECURITY PANEL RM 105-444	18
19	MOTOR DOOR RM 100-SP20				20/1	R	720 720			R	20/1					IG REC RM 105-444	20
21	ELECT LOCK STAIR 503				20/1	R		720 720		R	20/1					IG REC RM 105-444	22
23	FACP 19 RM 105-444				20/1	R			720 720	R	20/1					REMOTE RELAY RM 105-442	24
25	N:19 TAC: 10 RM 105-444				20/1	R	720 720			R	20/1					REMOTE RELAY RM 105-442	26
27	SPARE				20/1	_		- 720		R	20/1					REMOTE RELAY RM 105-442	28
29	SPARE				20/1	_			720	R	20/1					REMOTE RELAY RM 105-442	30
31	SPARE				20/1	_	- 720			R	20/1					REMOTE RELAY RM 105-442	32
33	SPARE				20/1	_		1500		R	20/1	3/4"	#12	#12	#12	QUAD OUTLET- IDF ROOM 152	34
35	SPACE				_	_				_	_	_	_		_	SPACE	36
37	SPACE				_	_				_	_	_	_		_	SPACE	38
39	SPACE				-	_		_			_	_	_	-	_	SPACE	40
41	SPACE				_	_				_	_	_	_	_	_	SPACE	42
	INTERRUP	T RATIN	IG:				7920	7980	6480				FR	OM:			
LOA		EMAND ACTOR	MINIMUM FEEDER	LOA	DS .		CON	NNECTE	D DEM		MININ FEE		REMA CONT		JS LO	ADS <u>0</u> 1.25 <u>0</u>	
LIG⊦	ITING 0	1.25	0	NON	-SEAS	SONAI							REMA				
		1.0	10000	MOT		_ U 1 1/ \L	_	0	1.	0	0		NON-	-CONT	INUOL	JS LOADS <u>0</u> 1.0 <u>0</u>	
	EPTS REMAINING 12380	0.5	6190	LARC	GEST I	мото	R _	0	0.:	25	0		DEMA	ND L	DADS	01.00	
	<del></del>	0.0	0	WATE	ER HE	:ATING	;	0	1.	0	Ω		TOTAL	CON	INFCTE	ED LOAD 22.4 KVA 62.2	AMPS
		1.0	0		HEN E			0	1.		0					NEL CAP. 16.2 KVA 45	
, 111 (						_ 4 0 11				~							WINII 2
													OVER	ALL D	EMANI	D FACTOR <u>0.72</u>	

NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 34









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ENLARGED ELECTRICAL & IDF **ROOM PLANS** 

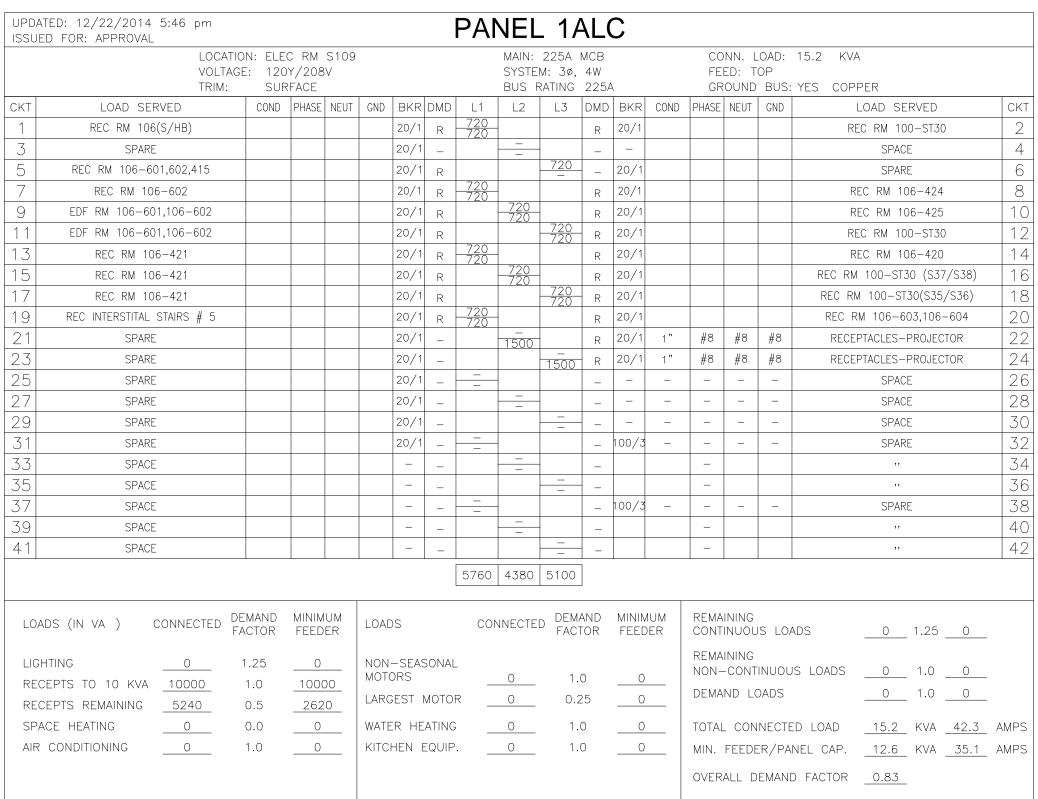
Issued for

Scale

No. By Date

Job No. 14-564 January 6, 2014 Drawn Checked

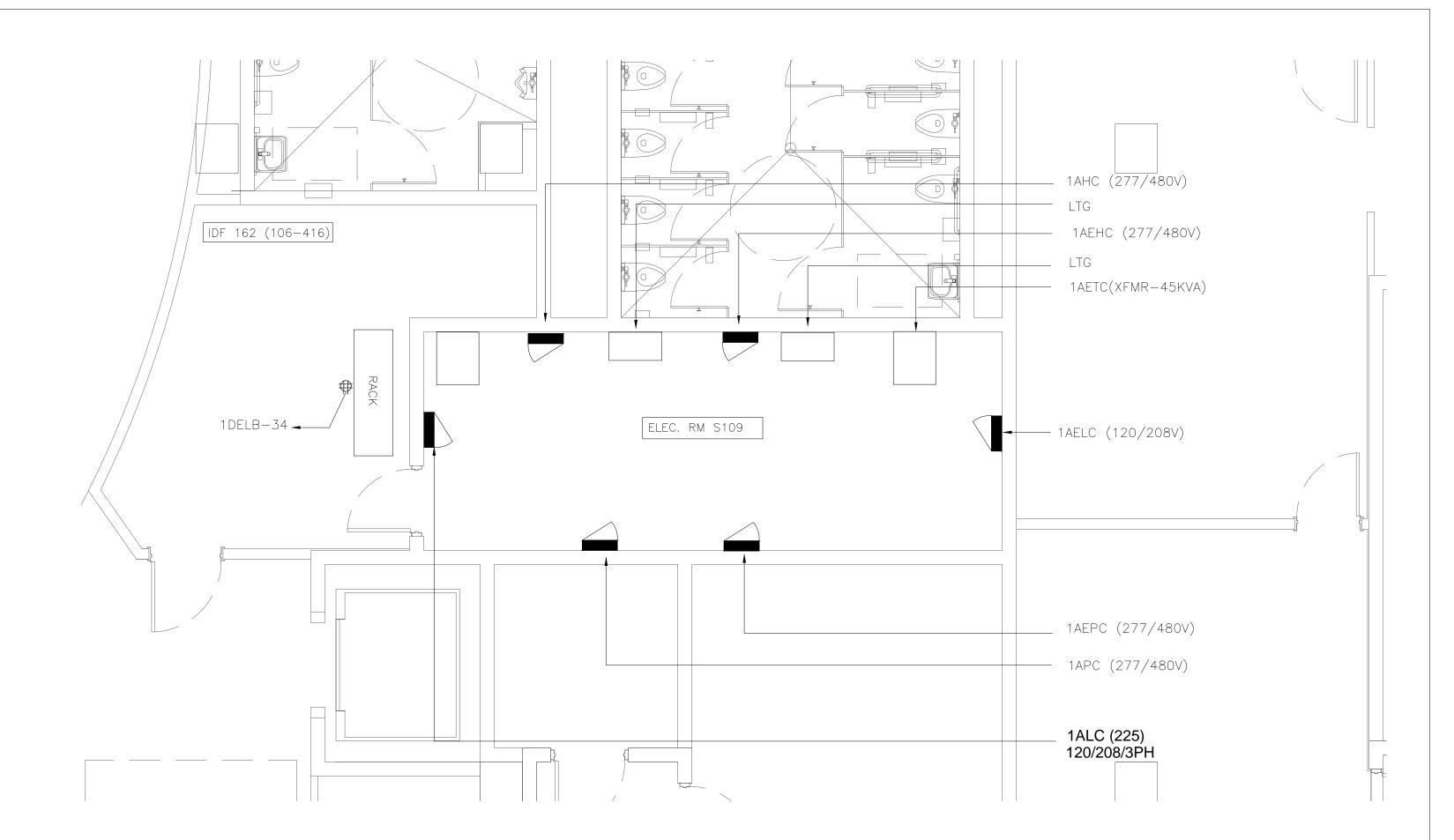
E2.303

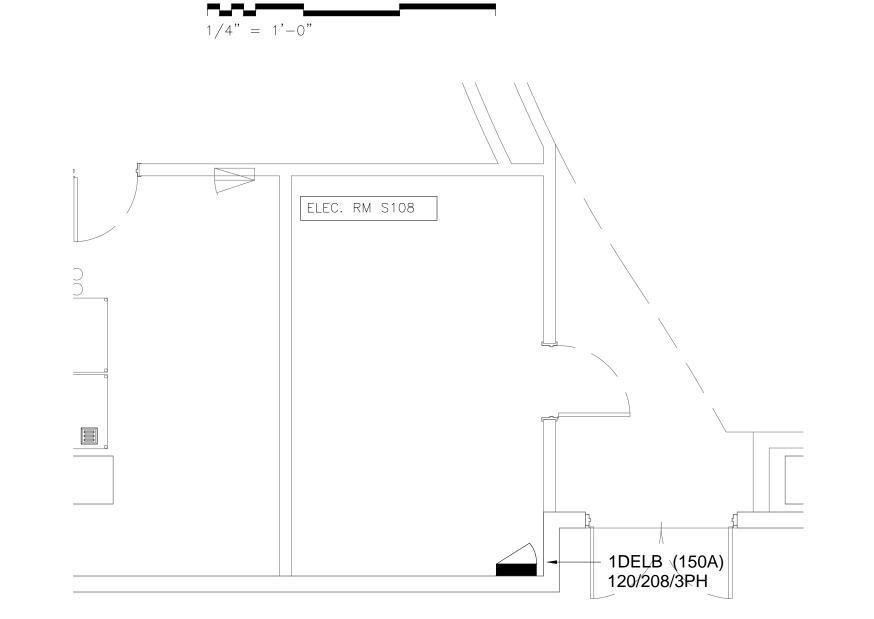


### NOTE: PROVIDE NEW BREAKERS FOR CIRCUITS 22 AND 24

	LOCATIO VOLTAG TRIM:								SYSTE	150A M: 3ø, RATING	4W	4		FE	ED: T	OP	22.4 KVA YES COPPER	
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	ELEV. (SS-2) LTG/REC					20/1	R	720 720			R	20/1					IG REC RM 106-402	2
3	ELEV. (SS-3) LTG/REC					20/1	R		720 720		R	20/1					IG REC RM 106-402	4
5	REC RM 106-413					20/1	R			720 720	R	20/1					IG REC RM 106-402	6
7	ESCAL (SE11) LTG/REC					20/1	R	720 720			R	20/1					IG REC RM 106-402	8
9	ESCAL (SE12) LTG/REC					20/1	R		720 720		R	20/1					IG REC RM 106-402	10
11	ESCAL (SE13) LTG/REC					20/1	R			720 720	R	20/1					CCTV CABINET RM -106-402	12
13	ELECT LOOK RM 100-ST30					20/1	R	720 720			R	20/1					IG REC RM 106-402	14
15	MOTOR DOOR RM- 100 ST30					20/1	R		720 720		R	20/1					IG REC RM 106-402	16
17	DOOR HOLD RM 106-412					20/1	R			720 720	R	20/1					IG REC RM 106-402	18
19	DOOR HOLD RM 106-412					20/1	R	720 720			R	20/1					SECURITY PANEL RM-106-402	20
21	MOTOR DOOR RM (106 S/HB)					20/1	R		720 720		R	20/1					FIRE ALARM CABINET RM -106-402	22
23	VAV CONT. XEMR RM (106-413)					20/1	R			720 720	R	20/1					REMOTE RELAY RM 105-413	24
25	LUTRON R/P E5 RM 106-413					20/1	R	720 720			R	20/1					REMOTE RELAY RM 105-413	26
27	SPARE					20/1	_		720		R	20/1					REMOTE RELAY RM 105-413	28
29	SPARE					20/1	_			720	R	20/1					REMOTE RELAY RM 105-413	30
31	SPARE					20/1	_	- 720			R	20/1					REMOTE RELAY RM 105-413	32
33	SPARE					20/1	_		1500		R	20/1	3/4"	#12	#12	#12	QUAD OUTLET-IDF RM 162	34
35	SPACE					_	_				-	_	_	_	_	_	SPACE	36
37	SPACE					-	_	_			-	_	-	_	_	_	SPACE	38
39	SPACE					-	_				-	-	_	_	_	_	SPACE	40
41	SPACE					-	_			_	-	_	_	_	_	_	SPACE	42
'	INTERRUP	T RATIN	G:					7920	7980	6480				FR	OM:			
LOA		EMAND ACTOR	MINIM FEED		LOAD	)S		100	NNECTE	D DEM		MININ FEEC		REMA CONT		IS LOA	ADS <u>0</u> 1.25 <u>0</u>	
LIG	HTING 0	1.25	0		NON	-SEAS	SONAL	_						REMA				
REG	CEPTS TO 10 KVA 10000	1.0	1000	 00	MOT	DRS		_	0	1.	0	0					JS LOADS <u>0</u> 1.0 <u>0</u>	
REG	CEPTS REMAINING 12380	0.5	619	90	LARC	BEST N	MOTO	R _	0	0.2	25	0		DEMA	ND LO	DADS	01.00	
SPA	ACE HEATING 0	0.0	0		   wate	R HE	ATING	)	0	1.	0	0		TOTAL	_ CON	NECTE	ED LOAD 22.4 KVA 62.2	AMPS
AIR	CONDITIONING 0	1.0	0		KITC	HEN E	EQUIP	·. —	0	1.		0					NEL CAP. <u>16.2</u> KVA <u>45</u>	
																	D FACTOR 0.72	,

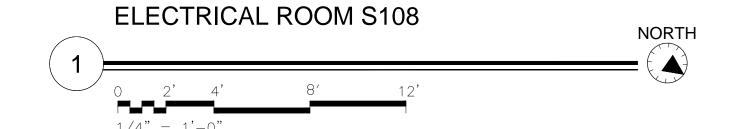
NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 34





ELECTRICAL ROOM S109 AND

IDF ROOM 162(108-416) ENLARGED PLAN





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Issued for

No. By Date

January 6, 2014 Drawn Checked

**ROOM PLANS** 

E2.304

Scale

NOTE: LOAD TESTING ON THIS PANEL MAX LOAD READING WAS AN AVERAGE OF 70A PER PHASE WITH ALL BRANCH LOADS RUNNING AT PEAK CAPACITY

PROVIDE NEW BREAKER IN PANEL FOR CIRCUIT—5.

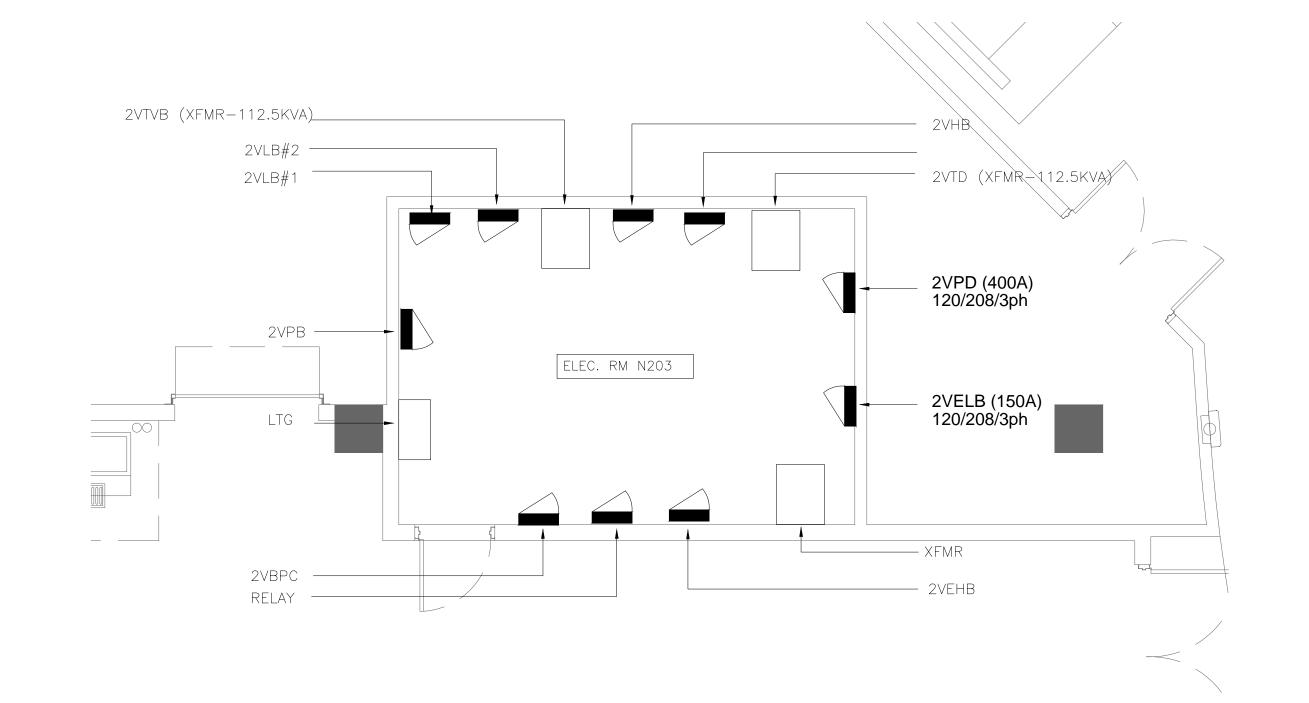
	TED: 12/22/2014 5:36 pm D FOR: APPROVAL							PAI	NEL	_ 1\	/E	LB									
		E: 120°	C RM N1 Y/208V FACE	05					SYSTE	150A M: 3ø, RATING	4W	4		FE	ED: T		20.9 KV YES COF				
CKT	LOAD SERVED	COND	PHASE NE	EUT	GND E	3KR C	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND		LOAD S	ERVED		CKT
1	RECEPTACLE				2	0/1	R	720 720			R	20/1						RECEPT	TACLE		2
3	RECEPTACLE				20	0/1	R	, 20	720 720		R	20/1						RECEPT	TACLE		4
5	RECEPTACLE				20	0/1	R		, 20	720 720	R	20/1						RECEPT	TACLE		6
7	RECEPTACLE				2	0/1	R	720 720		720	R	20/1						RECEPT	TACLE		8
9	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R	720	720 720		R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		10
11	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R		720	720 720	R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		12
13	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R	720 720		720	R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		14
15	RECEPTACLE				20	0/1	R	720	720 720		R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		16
17	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R		720	720 720	R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		18
19	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R	720 720		720	R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		20
21	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R	720	720 720		R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		22
23	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R		720	720 720	R	20/1	3/4"	#12	#12	#12		RECEPT	TACLE		24
25	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R	720		720	_	20/1	_	_	_	_		SPA	RE		26
27	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R		720		_	20/1	_	_	_	_		SPA	RE		28
29	RECEPTACLE	3/4"	#12 #	12	#12 20	0/1	R			720 1500	R	20/1	3/4"	#12	#12	#12	QUAD C	UTLET -	IDF ROO	OM 212	30
								6480	6480	7980											
LOA		EMAND ACTOR	MINIMUN FEEDER		LOADS			100	NNECTE	D DEM		MINIM FEED		REMA CONT		JS LOA	DS	0	_ 1.25	0	
REC	EPTS TO 10 KVA 10000	1.25 1.0 0.5	0 10000 5470	-	NON-S MOTOR LARGES	:S		_	0 0	1. 0.2		0					S LOADS	-	_	0	-
SPA	<del></del>	0.0	0	-	WATER	HEA	TING		0	1.	0	0		TOTAL	_ CON	INECTE	D LOAD	20.9	KVA	58.2	AMPS
AIR		1.0	0	-	KITCHE			_	0	1.	0	0					NEL CAP.	15.5	_		-
				-				_									) FACTOR	0.74	_		, <b>3</b>

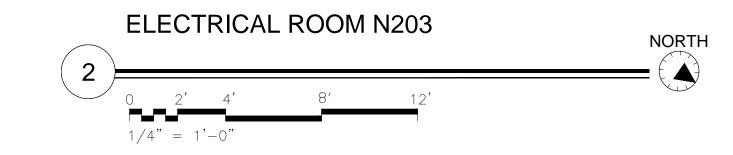
PROVIDE NEW BREAKERS FOR CIRCUIT 30.

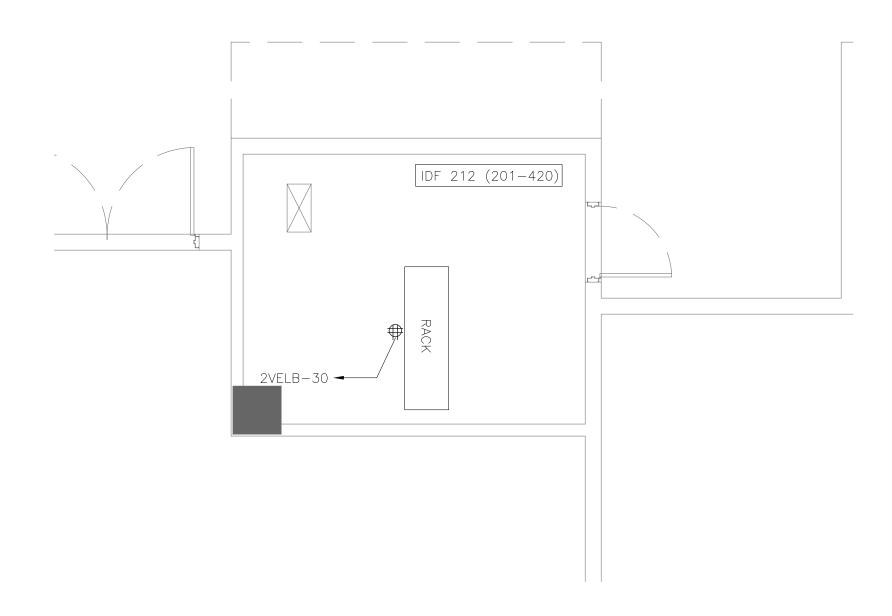
# x PLAN NOTES

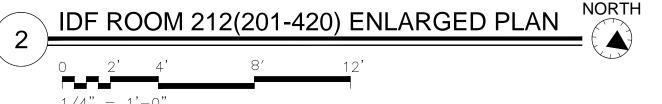
COORDINATE EXACT LOCATION OF IDF ROOM QUAD OUTLET WITH OCCC AND SMART CITY PRIOR TO START OF WORK.

	ED FOR: APPROVAL						_ ' '						EC					
	LOCATIO VOLTAG				USING	;				60A M M: 3ø,					NN. L ED: T		12.2 KVA	
	TRIM:		1/200 RFACE	V						RATING							YES COPPER	
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	PROJECTOR DUPLEX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R	1200 1200			R	20/1	1/2"	#12	#12	#12	PROJECTOR DUPLEX (SPLIT CIRCUIT)	2
3	PROJECTOR DUPLEX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R	1200	1200 1200		R	20/1	1/2"	#12	#12	#12	PROJECTOR DUPLEX (SPLIT CIRCUIT)	4
5	PROJECTOR DUPLEX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R		1200	1200 1200	R	20/1	1/2"	#12	#12	#12	PROJECTOR DUPLEX (SPLIT CIRCUIT)	6
7	PROJECTOR DUPLEX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R	1200 1200		1200	R	20/1	1/2"	#12	#12	#12	PROJECTOR DUPLEX (SPLIT CIRCUIT)	8
9	SPARE	-	-	_	_	20/1	_	1200	_ 1600		R	20/1	1/2"	#12	#12	#12	FAN CIRCUIT	10
11	DUPLEX FOR COMMUNICATIONS	1/2"	#12	#12	#12	20/1	R			500 500	R	20/1	1/2"	#12	#12	#12	DUPLEX FOR COMMUNICATIONS	12
								4800	4000	3400								
	VII // / / / / / / / / / / / / / / / / /	EMAND	MINIM		ΙΟΑΓ	)S				DEM	AND	MININ		REMA				
LC	VII // / / / / / / / / / / / / / / / / /	EMAND ACTOR	MINIM FEED		LOAE	)S			4000 NNECTE	DEM	AND	MININ FEEC				S LOA	ADS <u>0</u> 1.25 <u>0</u>	
	ADS (IN VA ) CONNECTED FA			ER	NON	-SEAS	SONAL	CON	NNECTE	DEM,	AND TOR	FEE	DER	CONT	INUOL INING		ADS <u>0</u> 1.25 <u>0</u> S LOADS <u>0</u> 1.0 <u>0</u>	
LIC RE	SHTINGOCEPTS TO 10 KVA10000_	1.25 1.0	0 1000	ER  00	NON MOT	–SEAS		CON	NNECTE	DEM, FAC	AND TOR	FEED O	DER	CONT REMA NON-	INUOL INING	INUOU		
LIC RE RE	SHTINGOCEPTS TO 10 KVA10000_CEPTS REMAINING2200_	1.25 1.0 0.5	0 1000 110	ER  00 	NON MOTO LARO	-SEAS ORS GEST	MOTOF	CON - -	NNECTE  O  O	DEM/ FAC	AND TOR 0	O	DER	CONT REMA NON- DEMA	INUOU INING -CONT ND LO	INUOU DADS	S LOADS 0 1.0 0 0 1.0 0	
LIC RE RE	CONNECTED FA	1.25 1.0 0.5	0 1000 110 0	ER	NON MOTO LARO WATE	-SEAS ORS GEST ER HE	motof Eating	CON - 	0 0 0	DEM, FAC	AND TOR 0 25	0 0	DER	CONT REMA NON- DEMA	INUOU INING -CONT ND LO	INUOU DADS NECTE	S LOADS 0 1.0 0 0 1.0 LOAD 12.2 KVA 33.9	
LIC RE RE	CONNECTED FA	1.25 1.0 0.5	0 1000 110	ER	NON MOTO LARO WATE	-SEAS ORS GEST ER HE	MOTOF	CON - 	NNECTE  O  O	DEM/ FAC	AND TOR 0 25	O	DER	CONT REMA NON- DEMA	INUOU INING -CONT ND LO	INUOU DADS NECTE	S LOADS 0 1.0 0 0 1.0 0	
LIC RE RE SF	CONNECTED FA	1.25 1.0 0.5	0 1000 110 0	ER	NON MOTO LARO WATE	-SEAS ORS GEST ER HE	motof Eating	CON - 	0 0 0	DEM, FAC	AND TOR 0 25	0 0	DER	CONT REMA NON- DEMA TOTAL MIN.	INUOL INING -CONT ND LC - CON FEEDE	INUOU DADS NECTE ER/PA	S LOADS 0 1.0 0 0 1.0 LOAD 12.2 KVA 33.9	











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ENLARGED ELECTRICAL & IDF ROOM PLANS

Sheet Title

Job No. 14-564
Date January 6, 2014
Drawn

Drawn Checked Scale

E2.305



- PROVIDE NEW BREAKER IN PANEL FOR CIRCUIT-5.
- PROVIDE NEW FACE PLATE ON MISSING SPACE.

1	ATED: 12/22/2014 5:36 JED FOR: APPROVAL	pm						PAI	NEL	. 1F	PE	LB						
		LOCATION: ELEC VOLTAGE: 120Y, TRIM: SURF.	/208						MAIN: SYSTE BUS F		4W	١		FE	ED: T	OP	20.9 KVA YES COPPER	
CKT	LOAD SERVED	COND F	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	RECEPTACLE					20/1	R	720 720			R	20/1					RECEPTACLE	2
3	RECEPTACLE					20/1	R		720 720		R	20/1					RECEPTACLE	4
5	RECEPTACLE					20/1	R			720 720	R	20/1					RECEPTACLE	6
7	RECEPTACLE					20/1	R	720 720			R	20/1					RECEPTACLE	8
9	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		720 720		R	20/1	3/4"	#12	#12	#12	RECEPTACLE	10
11	RECEPTACLE	3/4"	#12	#12	#12	20/1	R			720 720	R	20/1	3/4"	#12	#12	#12	RECEPTACLE	12
13	RECEPTACLE	3/4"	#12	#12	#12	20/1	R	720 720			R	20/1	3/4"	#12	#12	#12	RECEPTACLE	14
15	RECEPTACLE					20/1	R		720 720		R	20/1	3/4"	#12	#12	#12	RECEPTACLE	16
17	RECEPTACLE	3/4"	#12	#12	#12	20/1	R			720 720	R	20/1	3/4"	#12	#12	#12	RECEPTACLE	18
19	RECEPTACLE	3/4"	#12	#12	#12	20/1	R	720 720			R	20/1	3/4"	#12	#12	#12	RECEPTACLE	20
21	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		720 720		R	20/1	3/4"	#12	#12	#12	RECEPTACLE	22
23	RECEPTACLE	3/4"	#12	#12	#12	20/1	R			720 720	R	20/1	3/4"	#12	#12	#12	RECEPTACLE	24
25	RECEPTACLE	3/4"	#12	#12	#12	20/1	R	720 -			_	20/1	_	-	_	_	SPARE	26
27	RECEPTACLE	3/4"	#12	#12	#12	20/1	R		720		_	20/1	_	_	_	_	SPARE	28
29	RECEPTACLE	3/4"	#12	#12	#12	20/1	R			720 1500	R	20/1	3/4"	#12	#12	#12	QUAD OUTLET - IDF ROOM 212	30
								6480	6480	7980								

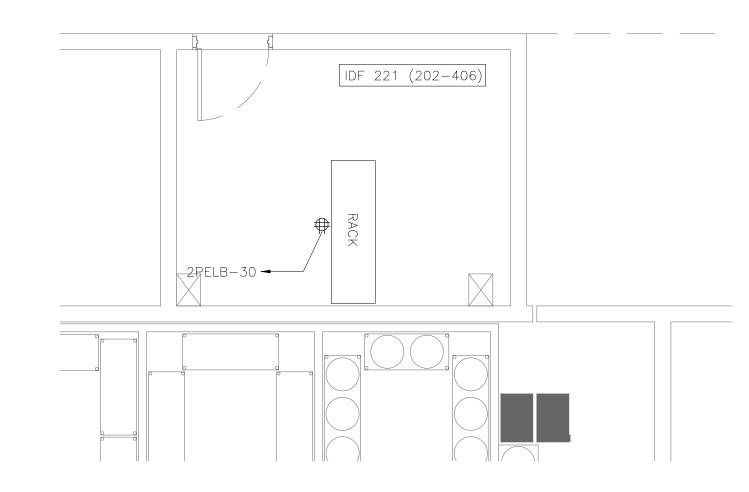
LOADS (IN VA ) CO	ONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	0	1.25 _	0	
LIGHTING  RECEPTS TO 10 KVA  RECEPTS REMAINING  SPACE HEATING  AIR CONDITIONING	0 10000 10940 0	1.25 1.0 0.5 0.0 1.0	0 10000 5470 0	NON-SEASONAL MOTORS LARGEST MOTOR WATER HEATING KITCHEN EQUIP.	0 0 0 0	1.0 0.25 1.0 1.0	0 0 0 0	REMAINING NON—CONTINUOUS LOADS  DEMAND LOADS  TOTAL CONNECTED LOAD MIN. FEEDER/PANEL CAP.  OVERALL DEMAND FACTOR	0 0 20.9 15.5 0.74	1.0 <sub>-</sub>	0 0 58.2 43	AMPS AMPS

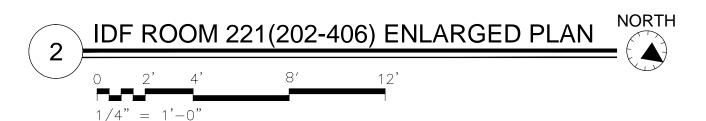
### PROVIDE NEW BREAKERS FOR CIRCUIT 30.

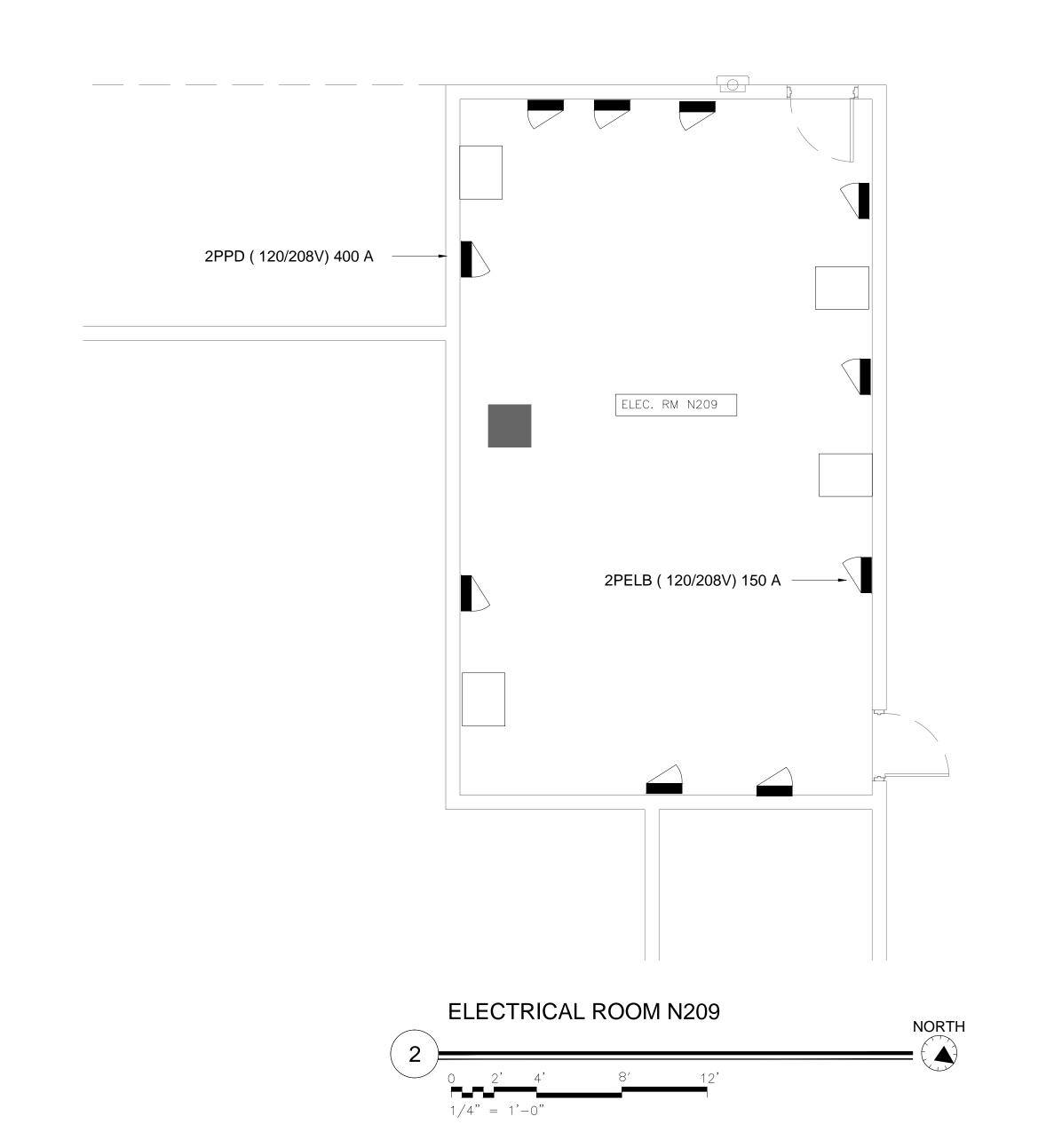
## PLAN NOTES

COORDINATE EXACT LOCATION OF IDF ROOM QUAD OUTLET WITH OCCC AND SMART CITY PRIOR TO START OF WORK.

1 PROJECTOR DUPLE 3 PROJECTOR DUPLE	TRIM: SERVED																12.2 KVA		
1 PROJECTOR DUPLE 3 PROJECTOR DUPLE			FACE													-	YES COPPE	ER	
3 PROJECTOR DUPLE		COND	PHASE	NEUT	GND	BKR		L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LC	DAD SERVED	СК
	EX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R	1200 1200			R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SPLIT CIRCUI	г) 2
E DROJECTOR DURI	EX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R		1200 1200		R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SPLIT CIRCUI	г) 4
2   PROJECTOR DOPLE	EX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	'''			1200 1200	R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SPLIT CIRCUI	r) 6
7 PROJECTOR DUPLE	EX (SPLIT CIRCUIT)	1/2"	#12	#12	#12	20/1	R	1200 1200			R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SPLIT CIRCUI	r) 8
9 SP/	ARE	_	_	1	1	20/1	_		1600		R	20/1	1/2"	#12	#12	#12	ſ	FAN CIRCUIT	10
11 DUPLEX FOR C	OMMUNICATIONS	1/2"	#12	#12	#12	20/1	R			500 500	R	20/1	1/2"	#12	#12	#12	DUPLEX F	FOR COMMUNICATIONS	12
LOADS (IN VA )			MINIM FEED	UM	LOAD	)S		4800 CON	4000 NNECTEI	DEM		MINIM FEEC		REMAI CONTI	–	S 104	ADS	0 1.25 0	
LIGHTING RECEPTS TO 10 KV RECEPTS REMAINING SPACE HEATING		0 1000 1100 0	0_	MOTO LARG WATE	ORS BEST M IR HE	SONAL MOTOR ATING EQUIP.	 	0 0 0	1.0 0.2 1.0	25 0		_ _ _	DEMAI TOTAL	CONT ND LO	DADS NECTE	S LOADS _ - - 	0 1.0 0 0 1.0 0 12.2 KVA 33.9 11.1 KVA 30.8	- - _ AMP	









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ENLARGED ELECTRICAL & IDF ROOM PLANS

Sheet Titl

Job No. 14-564
Date January 6, 2014
Drawn
Checked

E2.306

eet No.

$\vdash$										
	LOADS (IN VA )	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	01.250
	LIGHTING  RECEPTS TO 10 KVA  RECEPTS REMAINING  SPACE HEATING	24000 0 0	1.25 1.0 0.5 0.0	30000 0 0	NON-SEASONAL MOTORS LARGEST MOTOR WATER HEATING	 	1.0 0.25 1.0		REMAINING NON—CONTINUOUS LOADS DEMAND LOADS TOTAL CONNECTED LOAD	12006 1.0 12006 0 1.0 0  36 KVA 100 AM
	AIR CONDITIONING	0	1.0	0	KITCHEN EQUIP.	0	1.0	0	MIN. FEEDER/PANEL CAP.	42 KVA 116.7 AM
									OVERALL DEMAND FACTOR	1.17

NOTE: LOAD TESTING ON THIS PANEL MAX LOAD READING WAS AN AVERAGE OF 70A PER PHASE WITH ALL BRANCH LOADS RUNNING AT PEAK CAPACITY

PROVIDE NEW BREAKER IN PANEL FOR CIRCUIT—5.

I	ED: 12/22/2014 6:41 pm D FOR: APPROVAL							PAI	NEL	_ 2、	JEI	B						
		ON: ELEC GE: 120° SUR							SYSTE	150A M: 3ø, RATING	4W	4		FE	ED: 1	ГОР	27.4 KVA : YES COPPER	
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CK
1	REC RM 205-426					20/1	R	720 720			R	20/1					IG REC RM 205-419	2
3	N:23 TAC:4 RM 205-426					20/1	R		720 720		R	20/1					IG REC RM 205-419	4
5	SPARE					20/1	_			720	R	20/1					SECURITY PANEL RM 205-419	6
7	ESCAL SE-2 LTG RECEPT					20/1	R	720 720			R	20/1					SECURITY PANEL RM 205-419	8
9	ESCAL SE-1 LTG RECEPT					20/1	R		720 720		R	20/1					IG REC RM 205-419	1 (
11	DOOR HOLD RM S210-ABCDE					20/1	R			720 720	R	20/1					IG REC RM 205-419	1:
13	ELEC LOCK RM S210-ABCDE					20/1	R	720 720		,	R	20/1					IG REC RM 205-419	1.
15	DOOR HOLD RM S210-ABCDE					20/1	R	,	720 720		R	20/1					IG REC RM 205-419	1 (
17	ELEC LOCK RM S210-ABCDE					20/1	R		,	720 720	R	20/1					FIRE ALARM PANEL RM 205-419	18
19	REC RM 200-SB10					20/1	R	720 720		,	R	20/1					CCTV CABINET RM 205-419	20
21	ELEC LOCK 200-SE1					20/1	R	,	720 720		R	20/1					AUDIO-VISUAL RM 205-419	2:
23	GPS ROUTER RM 205-426					20/1	R		,	720 720	R	20/1					VAV CONTROL RM 205-419	2
25	N:24 TAC:3 RM 205-426					20/1	R	720 720		,	R	20/1					HR DOOR POWER	26
27	SPARE					20/1	_	,	 720		R	20/1					REC IDF RM 102-420	28
29	SPACE					_	_		,		_	20/1					SPARE	30
31	SPACE					_	_	_			_	20/1					SPARE	3:
33	SPACE					_	_		_		_	20/1					SPARE	3.
35	SPACE					_	_			2400	L	30/3					DIMMER PANEL	3
37	SPACE					_	_	_ 2400		2100	L						2JDAE - 30A	38
39	SPACE					_	_		 2400		L						RM 205-426	40
41	QUAD OUTLET-IDF RM 252	3/4"	#10	#10	#10	20/1	R		2100	1500	<u> </u>	_	_	-	-	-	SPACE	42
	INTERRUPT	RATING:						9600	8880	8940	]			FR	OM:			

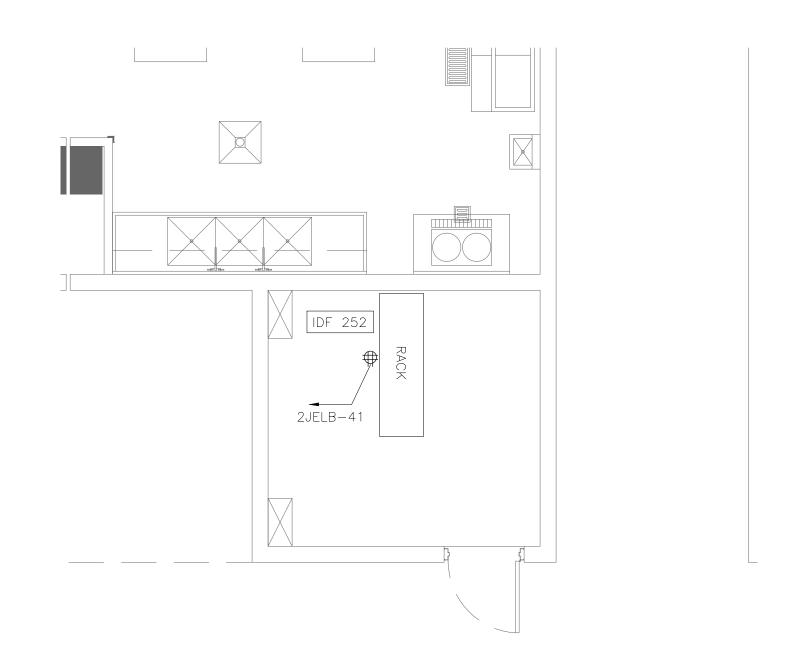
DS <u>0</u> 1.25	0
NEL CAP. 24.1 KVA	
S CTEI	OS 0 1.0  CTED LOAD 27.4 KVA  (PANEL CAP. 24.1 KVA

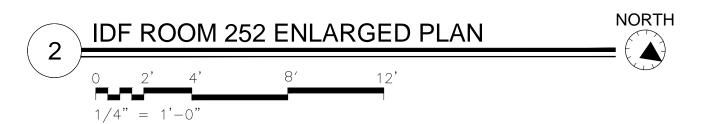
NOTE: PROVIDE NEW BREAKER FOR CIRCUIT 41

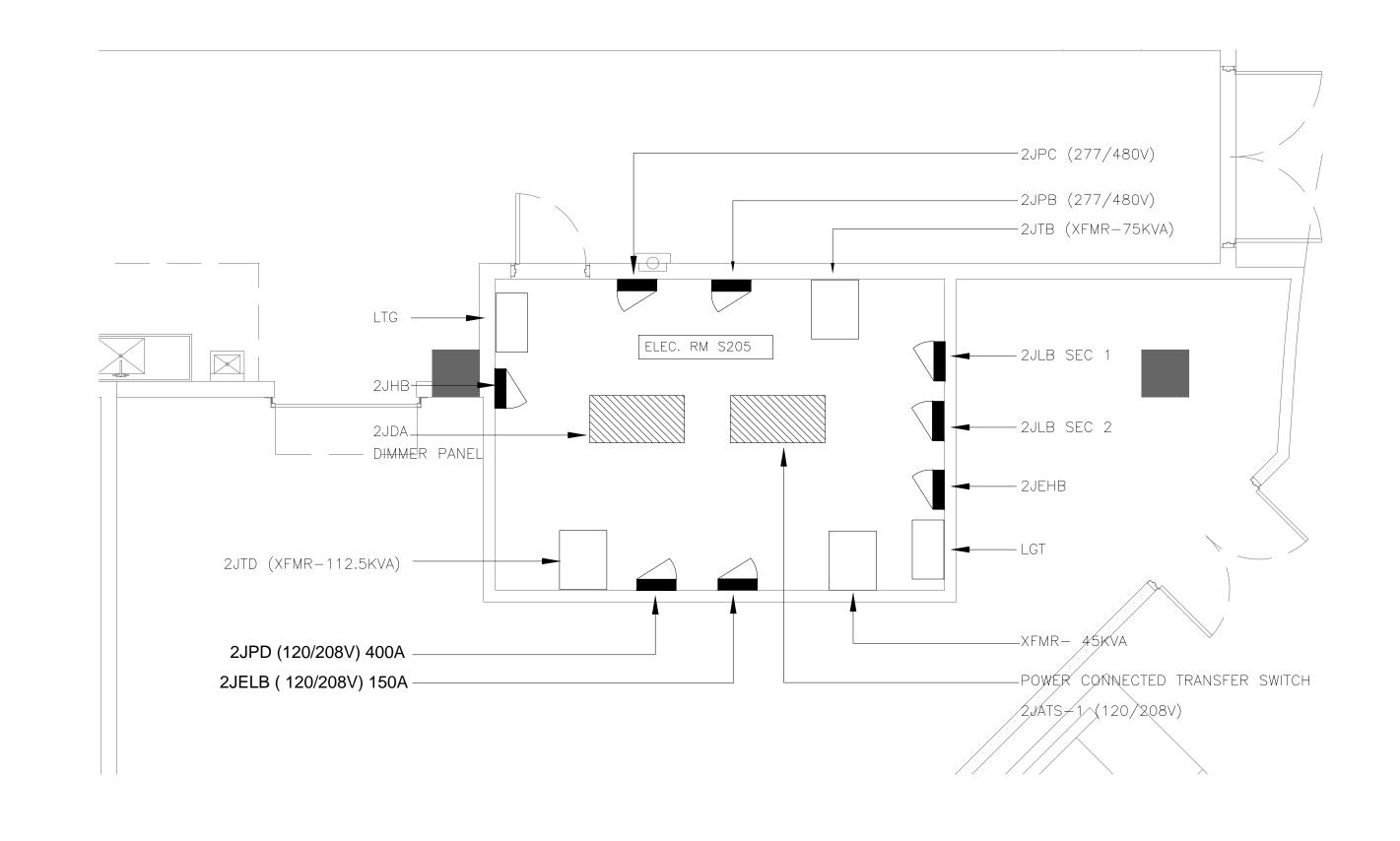


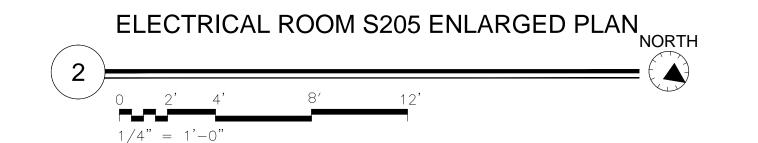
COORDINATE EXACT LOCATION OF IDF ROOM QUAD OUTLET WITH OCCC AND SMART CITY PRIOR TO START OF WORK.

	LOCATION: PROJECTOR HOUSING MAIN: 60A MLO CONN. LOAD: 12.2 KVA  VOLTAGE: 120Y/208V SYSTEM: 30, 4W FEED: TOP																				
		VOLI TRIM		Y/208 :FACE	5V					BUS R								YES COPP	ER		
CKT	LOAD SEF	RVED	COND	PHASE	NEUT	GND	BKR	1 1	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	L	OAD SERVE	D	СК
1	PROJECTOR DUPLEX	(SPLIT CIRCUI	T) 1/2"	#12	#12	#12	20/1	R	1200 1200			R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SP	LIT CIRCUIT)	2
3	PROJECTOR DUPLEX	(SPLIT CIRCUI	T) 1/2"	#12	#12	#12	20/1		1200	1200 1200		R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SP	LIT CIRCUIT)	4
5	PROJECTOR DUPLEX	(SPLIT CIRCUI	T) 1/2"	#12	#12	#12	20/1	1 ' 1			1200 1200	R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SP	LIT CIRCUIT)	6
7	PROJECTOR DUPLEX	(SPLIT CIRCUI	T) 1/2"	#12	#12	#12	20/1	R	1200 1200			R	20/1	1/2"	#12	#12	#12	PROJECTOR	DUPLEX (SP	LIT CIRCUIT)	8
9	SPARE	E	-	_	_	_	20/1			_ 1600		R	20/1	1/2"	#12	#12	#12		FAN CIRCUIT		1
11	DUPLEX FOR COM	AMILINICATIONS	1/2"	#12	#12	#12	20/1	R			500 500	R	20/1	1/2"	#12	#12	#12	DUPLEX I	FOR COMMUN	IICATIONS	1
_' '	DOLLEY LOW COM		UPT RATIN	G: 10	KAIC	1			4800	4000		]			"		"				
				G: 10  MINIM FEED	IUM	LOAD	)S			4000	3400	J AND	MININ FEED		REMAI	NING	"	.DS	0 1.2	.5 0	
LO	ADS (IN VA ) (	INTERR CONNECTED	UPT RATIN  DEMAND FACTOR  1.25	MINIM FEED	IUM ER	LOAD	-SEAS	SONAL	CON		3400 DEM	AND TOR		ER	REMAI CONTI	NING NUOU	S LOA	DS S LOADS			
LO LIG RE	ADS (IN VA )	INTERR	UPT RATIN  DEMAND FACTOR	MINIM FEED	IUM ER 	LOAE NON- MOTO	—SEAS DRS	L	CON	NECTE	3400 DEM/ FACT	AND TOR	FEEC	ER	REMAI CONTI	NING NUOU NING CONT	S LOA	S LOADS		0	
LO LIG RE RE	ADS (IN VA ) ( GHTING CCEPTS TO 10 KVA	INTERR CONNECTED  0 10000	DEMAND FACTOR  1.25 1.0	MINIM FEED  0 1000	IUM ER DO O	NON MOTO LARG	-SEAS ORS BEST I	SONAL	CON 	NNECTEL	3400 DEM/ FACT	AND TOR 0	FEED 0	DER	REMAI CONTI REMAI NON-	NING NUOU NING CONT	S LOA INUOU DADS	S LOADS	01.	0 0	
LO LIG RE RE SP	ADS (IN VA ) ( GHTING CCEPTS TO 10 KVA	INTERR  CONNECTED  0 10000 2200	DEMAND FACTOR  1.25  1.0  0.5	MINIM FEED  0  1000  110	IUM ER DO O	NON MOTO LARG	-SEAS ORS BEST I	SONAL MOTOR	CON	NNECTED  O  O	3400 DEM/ FACT 1.	AND FOR 0 25	O	PER	REMAI CONTI REMAI NON— DEMAI	NING NUOU NING CONT ND LC	S LOA INUOU DADS NECTE	S LOADS	0 1. 0 1. 12.2 KV	0 0 0 0 A 33.9	AMI











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0 mks 1/6/15 Permitting

ENLARGED ELECTRICAL & IDF ROOM PLANS

Issued for

Charl Tille

No. By Date

Job No. 14-564
Date January 6, 2014
Drawn

Drawn Checked Scale

E2.307

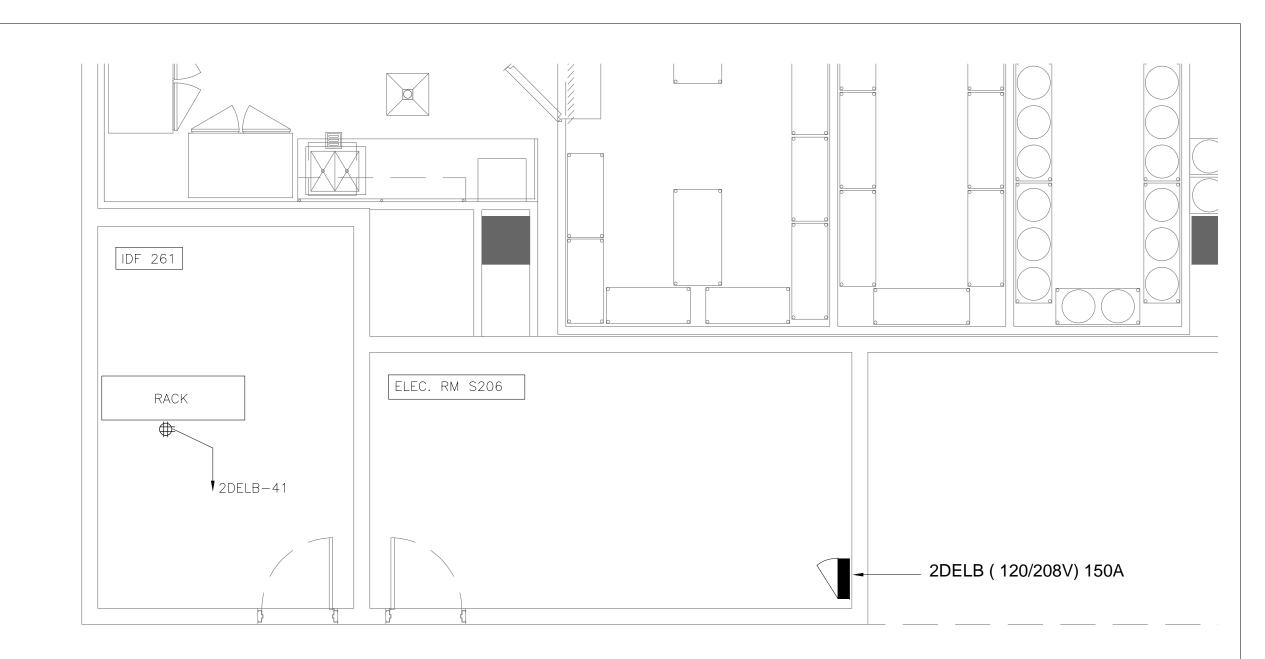
	TED: 12/22/2014 5:24 pm ED FOR: APPROVAL						F	PAN	1EL	2D	)PF	<b>-</b>									
	LOCATI VOLTA( TRIM:	SYSTE	MAIN: 400A MCB CONN. LOAD: 36 KVA SYSTEM: 30, 4W FEED: TOP BUS RATING 400A GROUND BUS: YES																		
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND		LOAD SE	ERVED		CK
1	DIMMER PANEL					350/3	L	8000 1200			_	30/3					DIM	MER PANI	EL DVD	ΑE	2
	(PEAK LOAD ~ 24 KVA)						L		8000 1200		_							_			
	_						L			8000 1200	-							=			
3	"	_	_	_	_	-/3	_	_			_	-/3	_	_	_	_		,,			4
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	-	_	_	_	_	_	_				_	-	-	_	_	_		-			
5	NEW PANEL PROJECTOR-NW	2"	#4	#4	#8	50/3	Ν	4000 -			_	-/3	-	_	_	_		,,			6
			#4				Ν		4000		_	_	-	_	_	_		-			
			#4				Ν			4000	_	_	_	_	_	_					
7	**	_	_	_	_	-/3	_	_			_	-/3	_	_	_	_		,,			8
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	_	_	_	_	_	_	_			2	N							-			
	INTERRU	PT RATIN	G: 10,	,000 .	AIC			13202	13202	13202				FR	ОМ: -	-					
LOA	ADS (IN VA ) CONNECTED E	UM ER	LOAE	)S		COI				MINIMUM FEEDER		REMAINING CONTINUOUS LO		JS LOA	ADS	0	1.25	0			
LIG	HTING 24000	1.25	3000	20	NON	-SEAS	SONAL								INING						
	CEPTS TO 10 KVA 0	1.0	0		MOTO		- J , 17 1L	_	0 1.0			0					S LOADS	12006	-		
	CEPTS REMAINING 0	0.5	0		LARG	SEST M	OTON	₹ _	0 0.25			0		DEMAND LOADS				0	1.0	0	
	ACE HEATINGO	0.0	0		   wate	R HE.	ATING		0	1.	0	0		TOTAI	_ CON	NECTF	D LOAD	36	KVA	100	AMPS
	CONDITIONING 0	1.0	0			HEN E		_	0	1.		0					NEL CAP.		-		
								_								·			-		7 (1911
														OVER	ALL D	EMAN	FACTOR	_1.17	-		

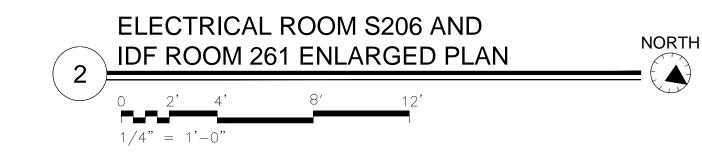
NOTE: LOAD TESTING ON THIS PANEL MAX LOAD READING WAS AN AVERAGE OF 70A PER PHASE WITH ALL BRANCH LOADS RUNNING AT PEAK CAPACITY PROVIDE NEW BREAKER IN PANEL FOR CIRCUIT-5.

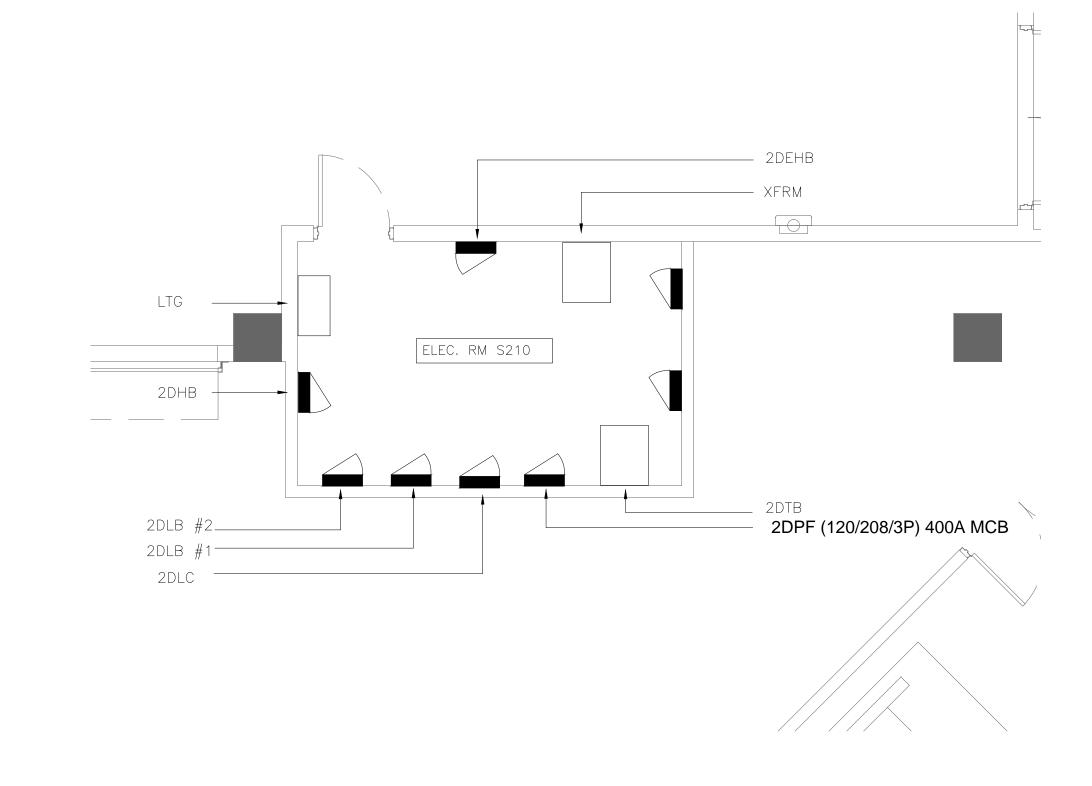
	ATED: 12/22/2014 5:36 pm ED FOR: APPROVAL						PAI	NEL	_ 2[	DE	LB									
10001	LOCATI VOLTAC TRIM:		MAIN: 150A MCB SYSTEM: 3Ø, 4W BUS RATING 200A										CONN. LOAD: 20.9 KVA FEED: TOP GROUND BUS: YES COPPER							
CKT	LOAD SERVED	COND	PHASE	NEUT GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND		LOAD SERV	/ED	CK	
1	RECEPTACLE				20/1	R	720 720			R	20/1						RECEPTACL	.E	2	
3	RECEPTACLE				20/1	R		720 720		R	20/1						RECEPTACL	.E	4	
5	RECEPTACLE				20/1	R			720 720	R	20/1						RECEPTACL	_E	6	
7	RECEPTACLE				20/1	R	720 720			R	20/1						_E	8		
9	RECEPTACLE				20/1	R		720 720		R	20/1					RECEPTACLE			1(	
11	RECEPTACLE				20/1	R			720 720	R	20/1					RECEPTACLE			12	
13	RECEPTACLE				20/1	R	720 720			R	20/1					RECEPTACLE			1.	
15	RECEPTACLE				20/1	R		720 720		R	20/1		RECE		RECEPTACLE		1 (			
17	RECEPTACLE				20/1	R			720 720	R	20/1					RECEPTACLE		_E	18	
19	RECEPTACLE				20/1	R	720 720			R	20/1					RECEPTACLE		_E	20	
21	RECEPTACLE				20/1	R		720 720		R	20/1						RECEPTACL	_E	22	
23	RECEPTACLE				20/1	R			720 720	R	20/1						RECEPTACL	-E	24	
25	RECEPTACLE				20/1	R	720 -			_	20/1						SPARE		26	
27	RECEPTACLE				20/1	R		720 -		_	20/1						SPARE		28	
29	RECEPTACLE				20/1	R			720 1500	R	20/1	3/4"	#12	#12	#12	QUAD O	JTLET - IDF	ROOM 212	. 30	
LOA		DEMAND FACTOR	MINIMU FEEDE		DS		6480 CO1	6480 NNECTE	DEM	AND	MININ FEE[			.INING	IS LOA	ADS	01	.25 0		
REC REC	CEPTS REMAINING 10940  ACE HEATING 0	1.0 10000 M 0.5 5470 L		O MOT	NON-SEASONAI MOTORS LARGEST MOTO WATER HEATING		0 TOR0		1. 0.: 1.	25	C		REMAINING NON-CONTINUOU DEMAND LOADS TOTAL CONNECT				0	1.0 0	_	
AIR	CONDITIONING 0	1.0	0	KITC	HEN E	EQUIP	· _	0	1.	.0	C	<u> </u>				NEL CAP. D FACTOR		(VA <u>43</u>	_ AMPS	

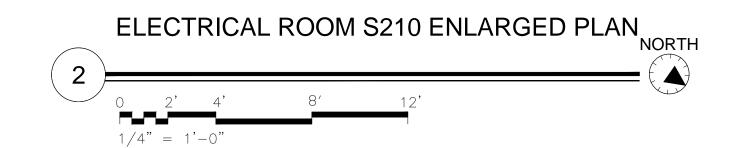
PROVIDE NEW BREAKERS FOR CIRCUIT 30.













Orange County **Convention Center** North/South Building Digital Advertising Projector Modifications

Client Orange County Convention Center P.O. Box 691509 Orlando, Florida 32869

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rhodes + brito 605 E. Robinson Street, Suite 750, Orlando, Florida 32801

www . rbarchitects . com CGC 1521662 CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027

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Seal/Signature

06 - Jan - 2015 Mitesh K. Smart, PE 52772 (FL)

No. By Date Revision \_\_\_\_

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ENLARGED ELECTRICAL & IDF **ROOM PLANS** 

Scale

No. By Date

Job No. 14-564 January 6, 2014 Drawn Checked

E2.308