

# ORANGE COUNTY CONVENTION CENTER

## North/South Building Digital Advertising

### ORANGE COUNTY, FL

#### Capital Planning Division

#### 9800 International Drive, Orlando, FL 32819



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

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

Engineer:



Architect:



rhodes + brito  
ARCHITECTS  
405 E. Robinson Street, Suite 750, Orlando,  
Florida 32801  
PH: (407) 648-7288  
FAX: (407) 648-7289  
AA: 000-0000  
www.rhodesbrito.com



BASE  
CONSULTANTS  
Engineering + Construction  
CCS: 1525662  
CERTIFICATE OF AUTHORIZATION No.  
27343  
LAURA BARBERO-BUFFA, P.E. No.  
74527  
4787 NEW BROAD STREET, #1018  
ORLANDO, FLORIDA 32814  
P: 407-442-2697 F: 407-454-7135

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

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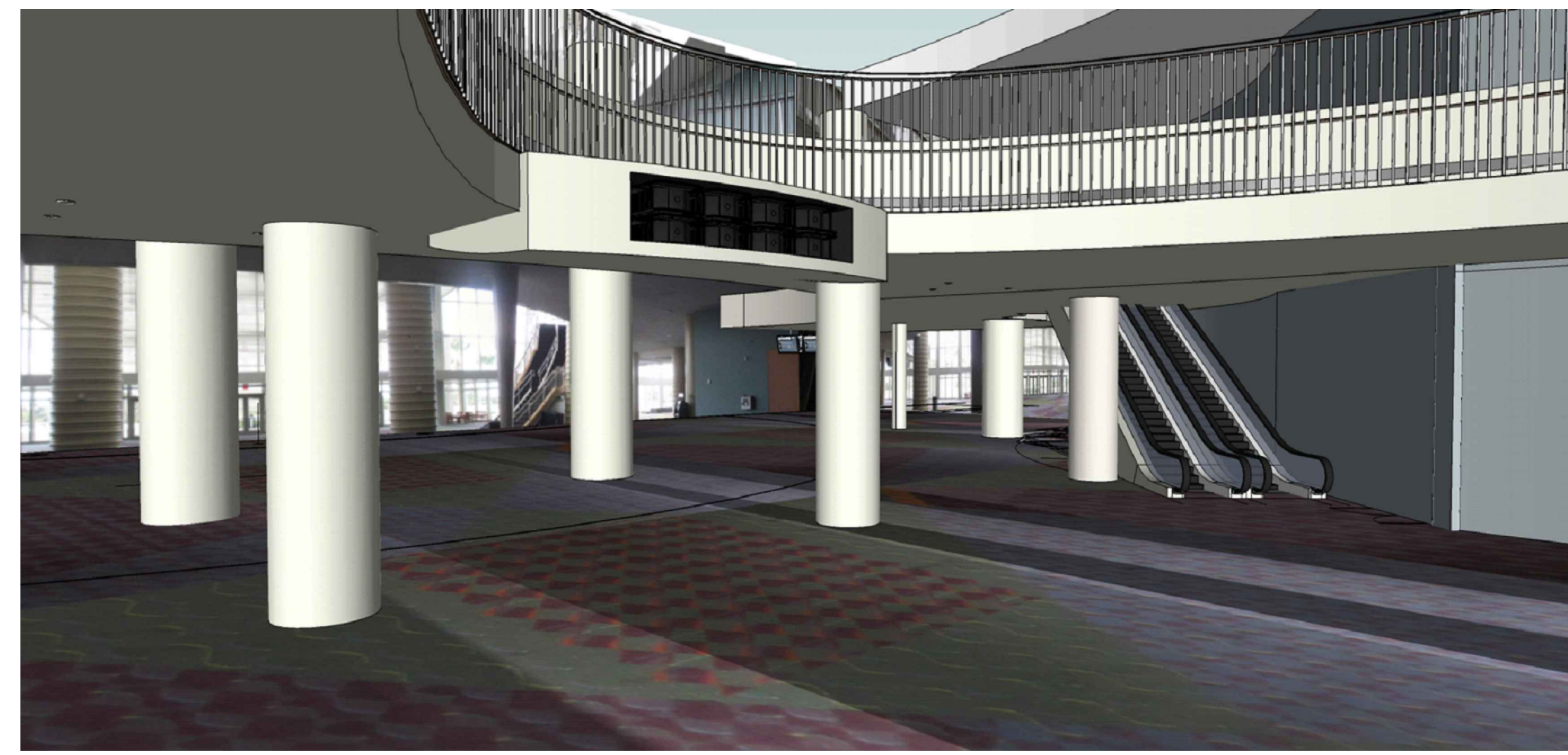
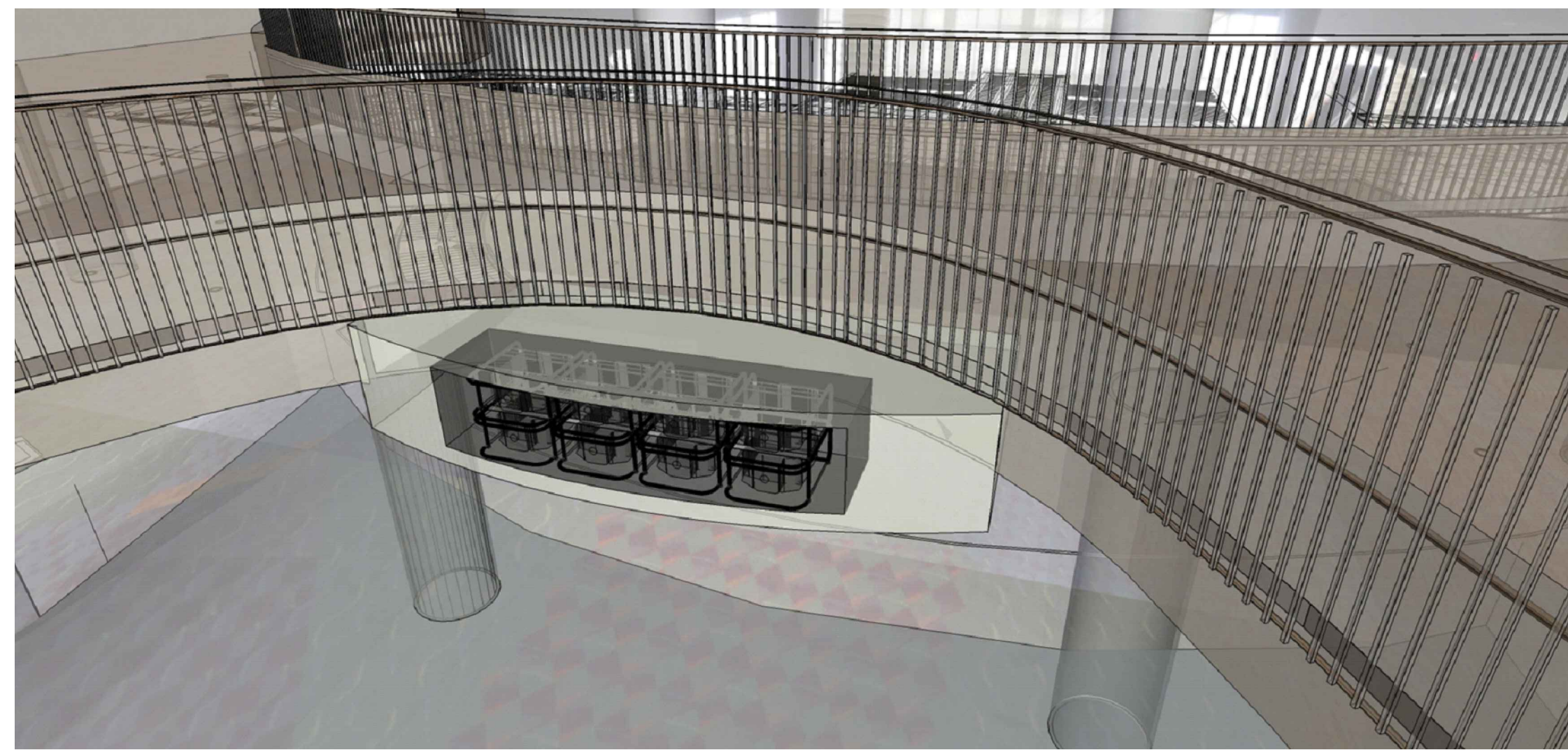
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TITLE SHEET

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

T.01

Sheet No.



### 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.
- 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.
- At (4) bridge locations, a new projector housing shall be custom built to house (8) projectors along with miscellaneous electrical and data equipment.
- 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.
- 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.
- Structural/ building modifications shall be made at the bridge projectors to accommodate the new projector housings.
- Electrical power shall be connected from existing electrical rooms to provide power to the new projectors.
- Fiber and Network connections shall be connected from existing IDF rooms to transmit data to the new projectors.
- 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.ccsoutheast.com  
Local office - 7101 Presidents Dr STE 270, Orlando, FL 32809

Audio Fidelity Communications Group DBA The Whitlock Group Reid Holden,  
holden@whitlock.com  
8010 Woodland Center Blvd., Suite 100, Tampa, FL 33634  
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

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



Location Map

### PROJECT TEAM

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

### PROFESSIONAL SEALS

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

CONSTRUCTION DOCUMENTS

**GENERAL PLAN NOTES**

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING CONSTRUCTION PHASES WITH THE OWNER PRIOR TO CONSTRUCTION. OBTAINING WRITTEN APPROVAL FROM THE OWNER OF DEMOLITION SCHEDULE IS REQUIRED.
2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
3. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING ITEMS (INCLUDING FIRE, SMOKE RATINGS) DAMAGED.
4. CONTRACTOR IS TO MAINTAIN EXISTING FIRE, SMOKE RATINGS AT ALL TIMES. CONTRACTOR IS TO PATCH, REPAIR FIRE PROOFING DAMAGED DURING CONSTRUCTION.
5. CONTRACTOR IS TO ENSURE THAT DOOR, WINDOW AND/OR RATING INFORMATION, STENCILS AND LABELS ARE NOT PAINTED OR COVERED. CONTRACTOR IS TO REPAIR/REPLACE DAMAGED OR COVERED LABELS.
6. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.
7. WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAINING STRUCTURAL PERFORMANCES WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.
8. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON DRAWINGS) THAT ARE TO REMAIN PRIOR TO CONSTRUCTION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES TO AVOID DISRUPTION OR SEVERING OF UTILITIES. CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
9. WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS (E. SIGNAGE, RACEWAYS, EQUIPMENT, ETC) - PATCH/REPAIR WALLS AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.



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

**Client**  
Orange County Convention Center  
P.O. Box 891509  
Orlando, Florida 32869

**Engineer:**



**Architect:**



**Structural Engineer:**

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

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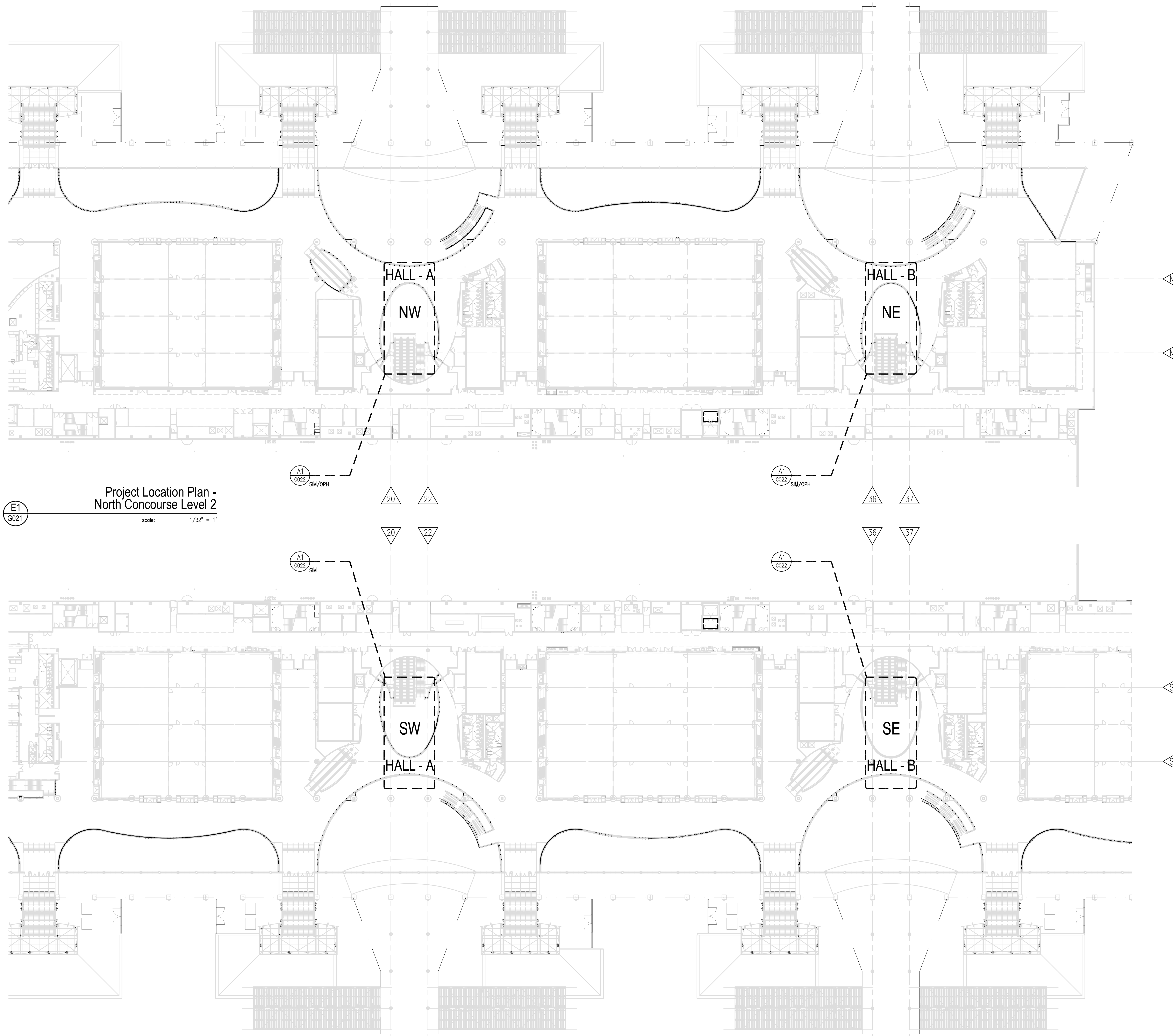
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NS CONCOURSE LEVEL 2**

**Sheet Title**

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

**G021**

**Sheet No.**



**Project Location Plan -  
North Concourse Level 2**  
scale: 1/32" = 1'

**Project Location Plan -  
South Concourse Level 2**  
scale: 1/32" = 1'

**NOTE:**  
SEE SHEET G023 FOR EXISTING CONDITIONS IN ALL (4) MEZZANINE PROJECTOR LOCATIONS: NW, NE, SW, AND SE LOCATIONS - FOR REFERENCE ONLY - TYP

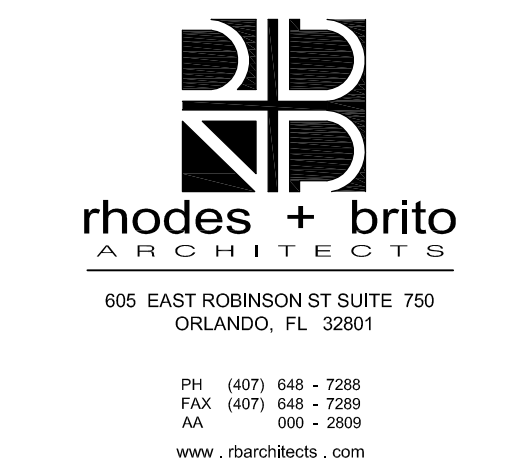
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 Orlando, Florida 32869

Engineer:



Architect:



Structural Engineer:

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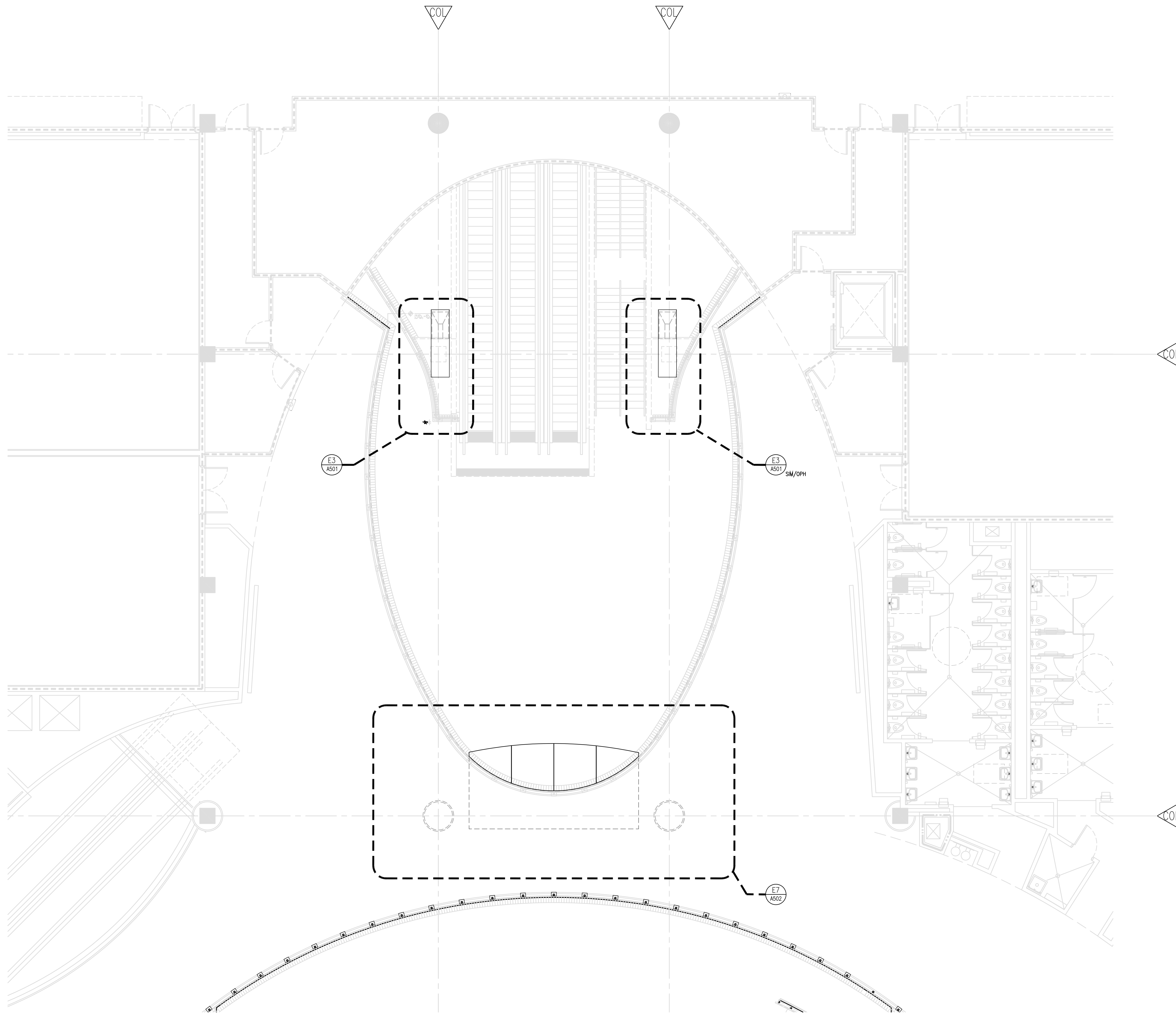
ENLARGED PLAN

Sheet Title

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

**G022**

Sheet No.



**A1**  
**G022**  
 Enlarged Plan  
 scale: 3/16" = 1'



G1 NW Mezzanine - Reference Images

scale: 1/64" = 1'



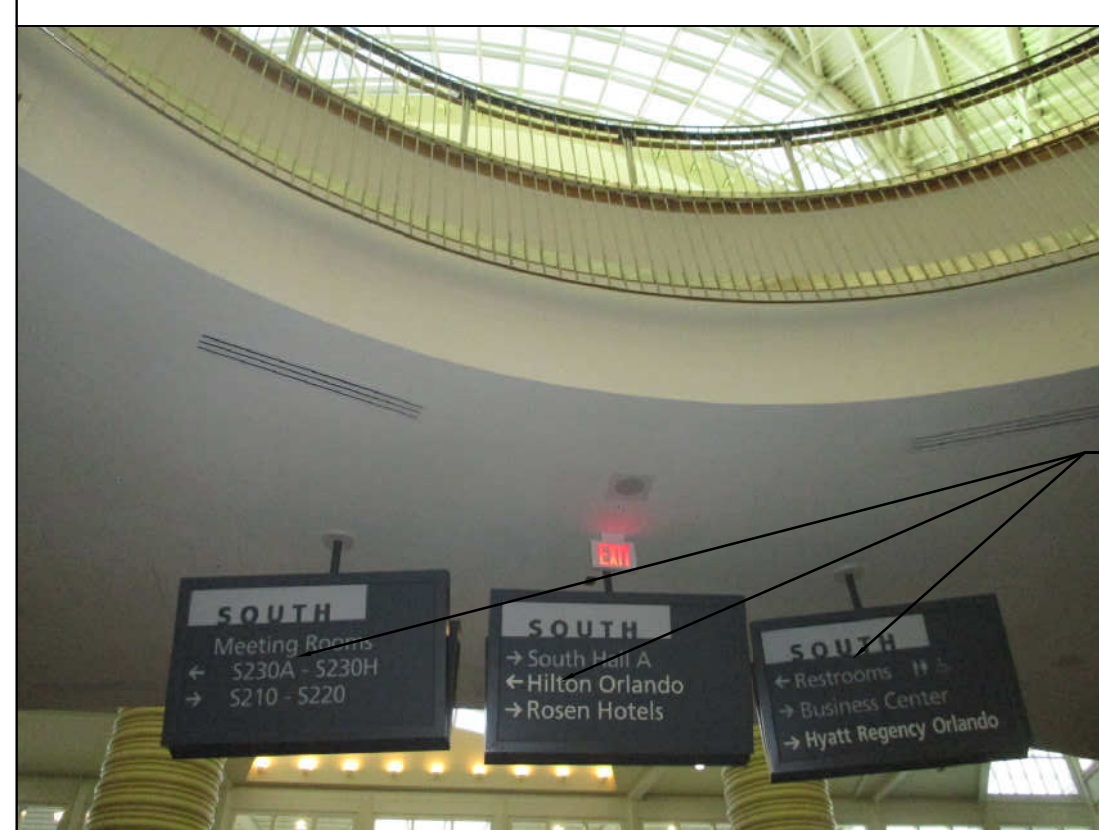
E1 NE Mezzanine - Reference Images

scale: 1/64" = 1'



C1 SW Mezzanine - Reference Images

scale: 1/64" = 1'



A1 SE Mezzanine - Reference Images

scale: 1/64" = 1'

NOTES TO SHEET

- 1 EXISTING DIFFUSER TO BE RELOCATED - SEE SHEET A7/AS02 AND ELECTRICAL FOR ADDITIONAL INFORMATION
- 2 EXISTING EXIT SIGN - TO BE RELOCATED TO UNDERSIDE OF MEZZANINE PROJECTOR HOUSING - SEE SHEET A7/AS02 AND ELECTRICAL FOR ADDITIONAL INFORMATION - TYP
- 3 EXISTING SIGNAGE TO BE REMOVED AND DEMOLISHED, INCLUDING ALL ASSOCIATED WIRING AND ATTACHMENTS - SEE ELECTRICAL FOR ADDITIONAL INFORMATION - TYP
- 4 SECURITY CAMERA TO BE RELOCATED - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- 5 SPEAKER TO BE RELOCATED - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION - TYP



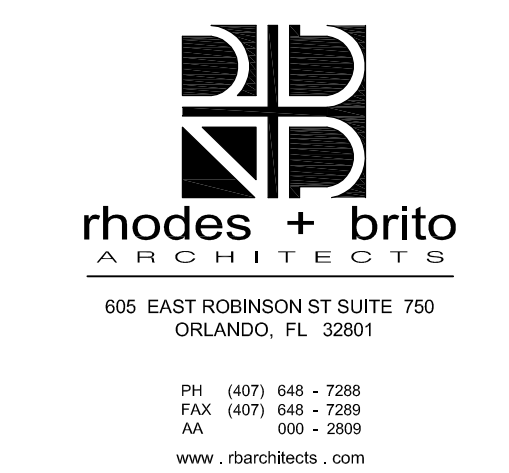
Orange County Convention Center North/South Building Projector Modifications

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Engineer:



Architect:



Structural Engineer:

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REFERENCE IMAGES - MEZZANINE PROJECTOR HOUSING LOCATIONS

Sheet Title

Job No. 14-564  
Date January 6, 2014  
Drawn LF  
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G023

Sheet No.

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

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

**Engineer:**  
**MILAN ENGINEERING**

905 S Semoran Blvd (Suite 100)  
 Winter Park, FL 32789  
 407.278.2099  
 Certificate of Registration: AR0271  
 Florida Statute with P.E. Required

**Architect:**  
**rhodes + brito ARCHITECTS**  
 606 EAST ROBINSON ST SUITE 750  
 ORLANDO, FL 32801  
 PH: (407) 648-1288  
 FAX: (407) 648-1289  
 AN: 1001-2-2008  
 www.rhodesbrito.com

**Structural Engineer:**

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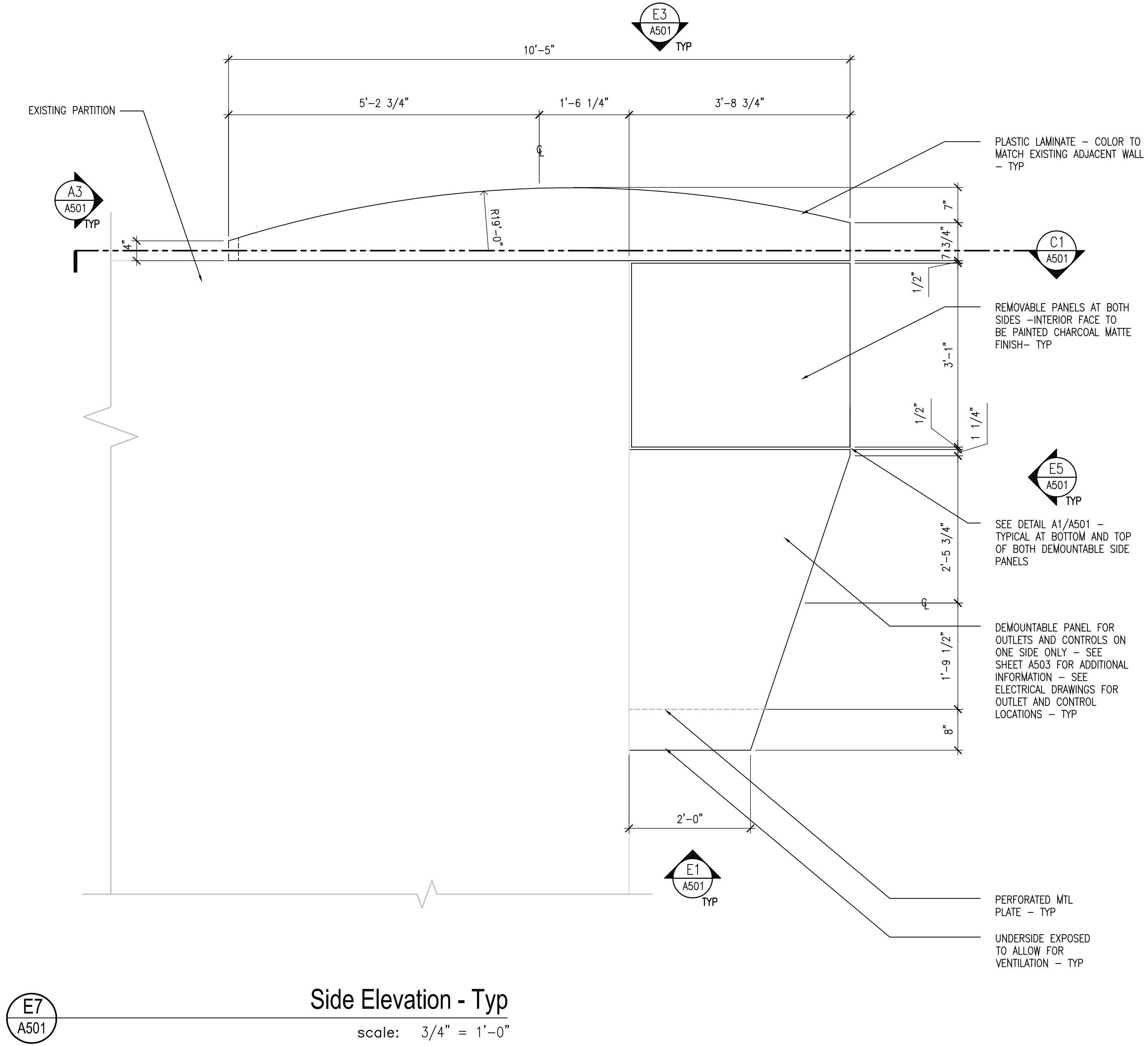
**DETAILS FOR PROJECTOR HOUSING AT ESCALATOR**

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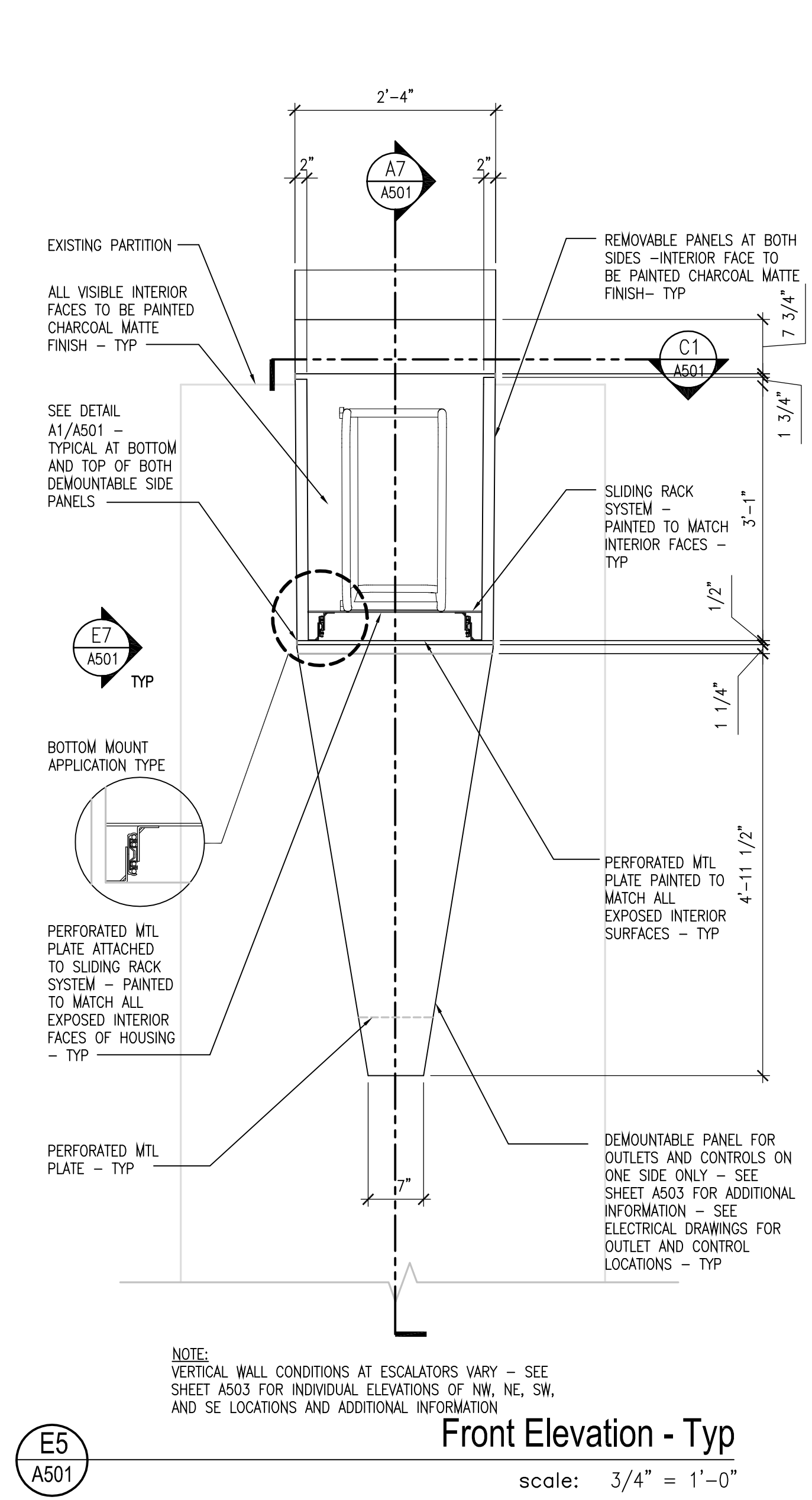
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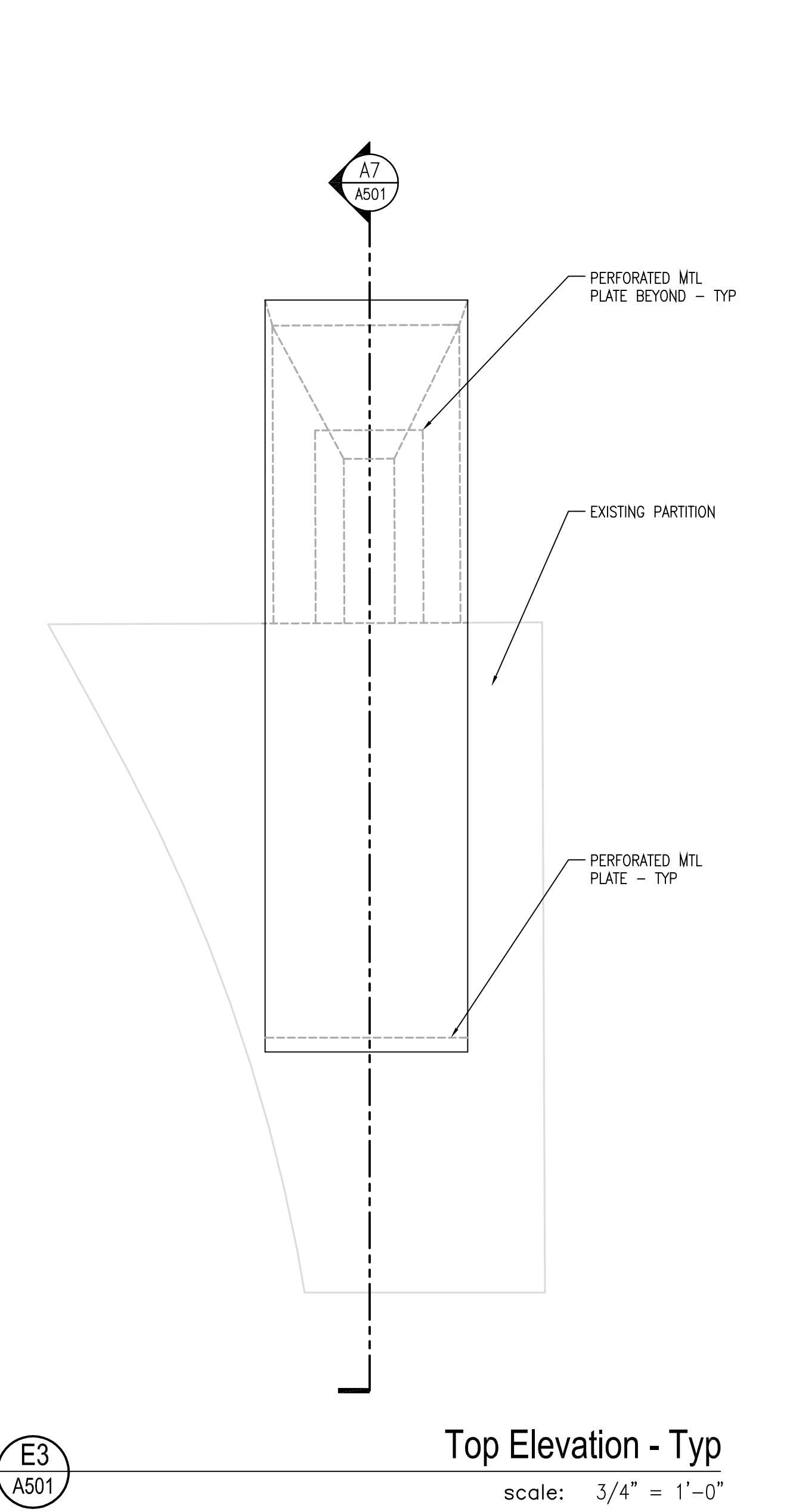
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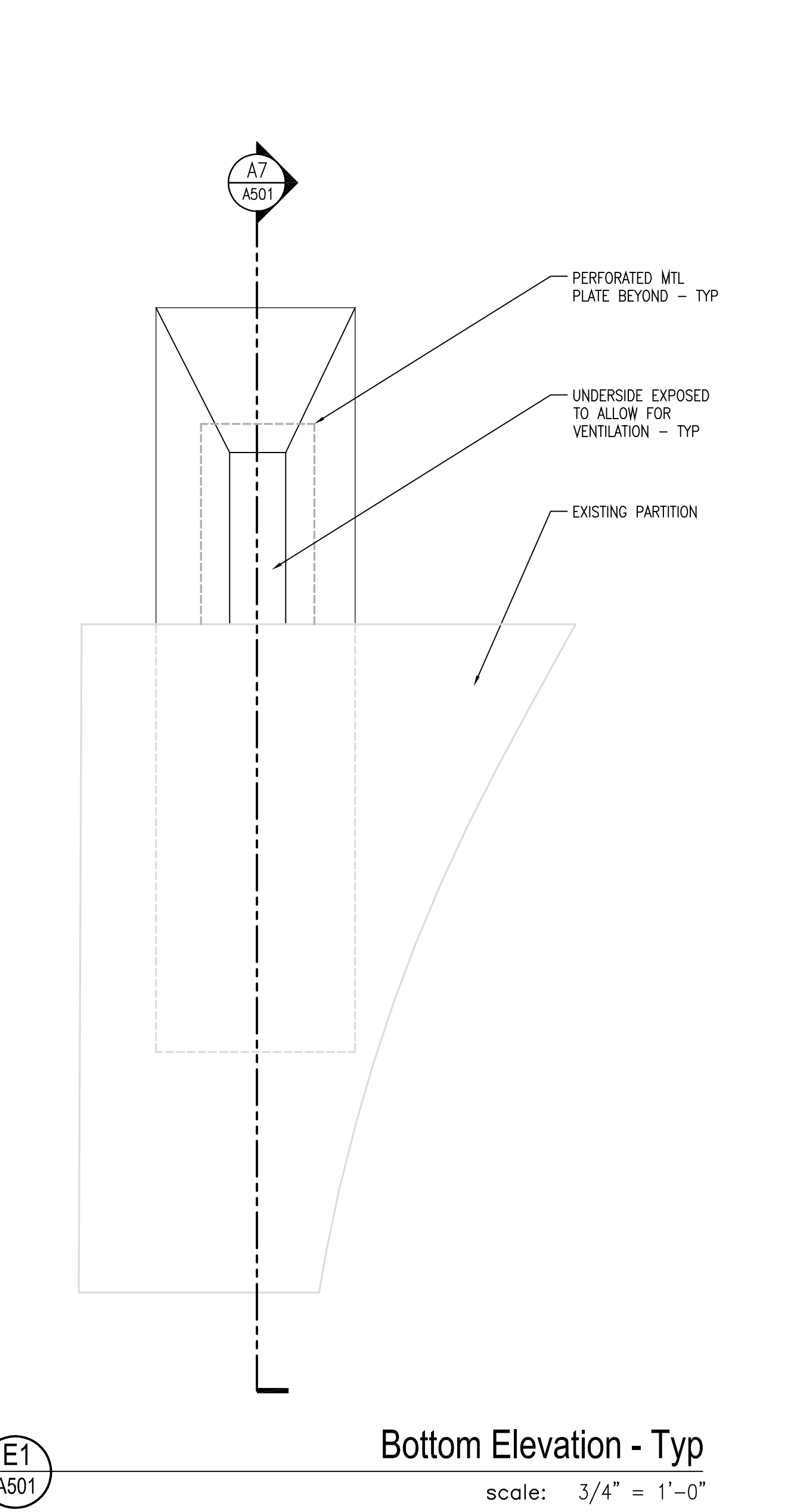
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**A501**  
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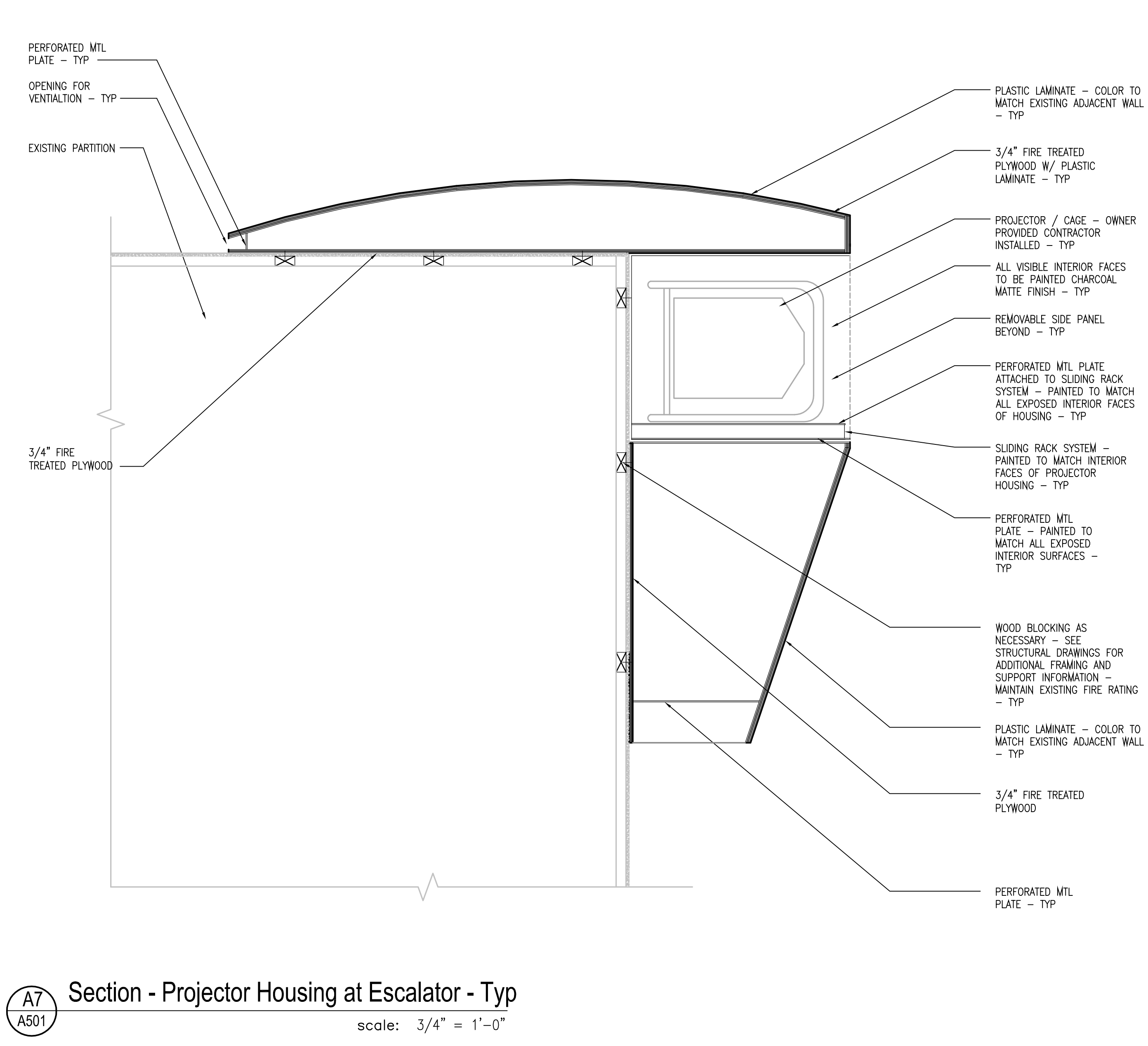
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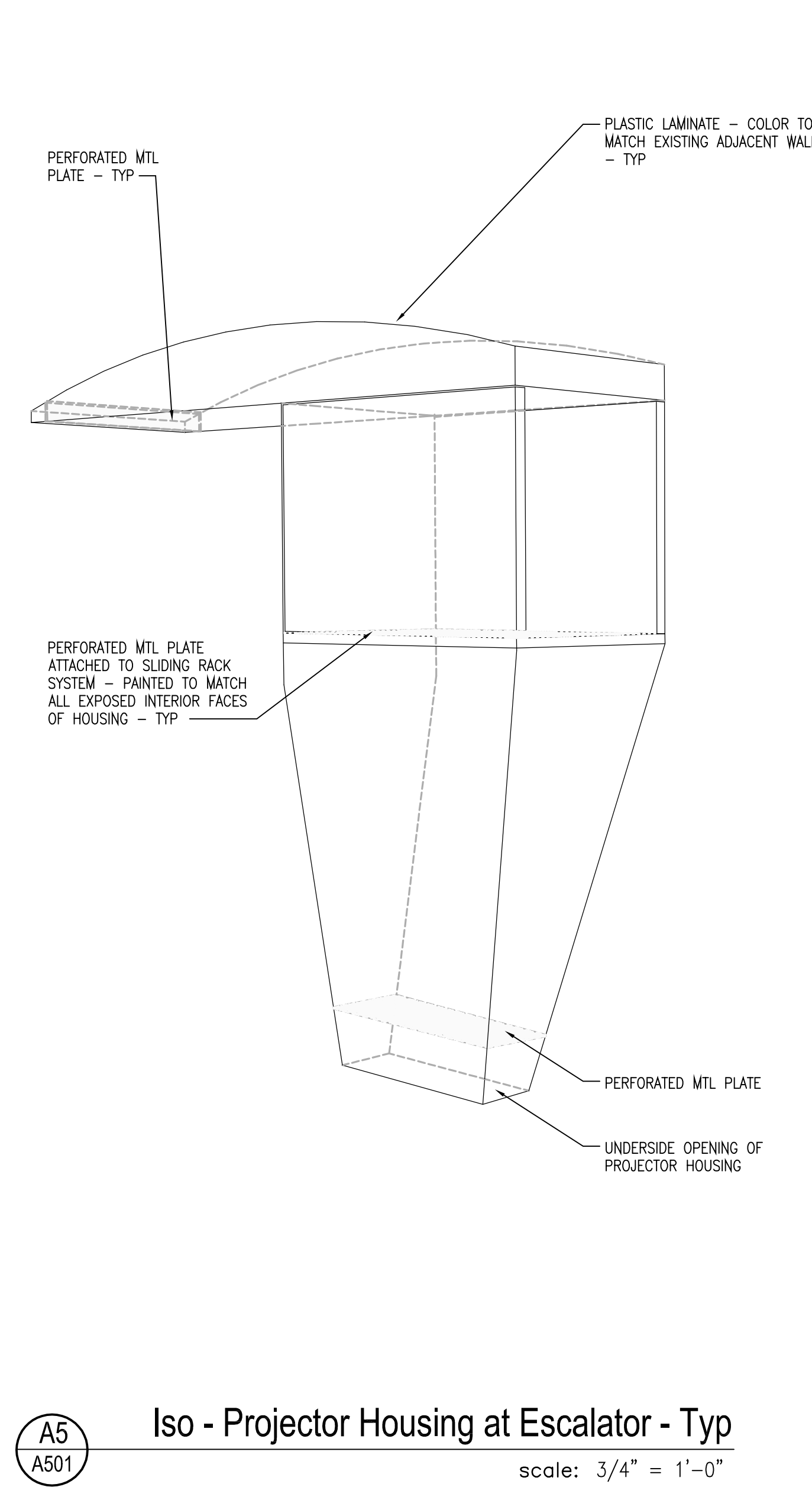
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**A501**  
**Top Elevation - Typ**  
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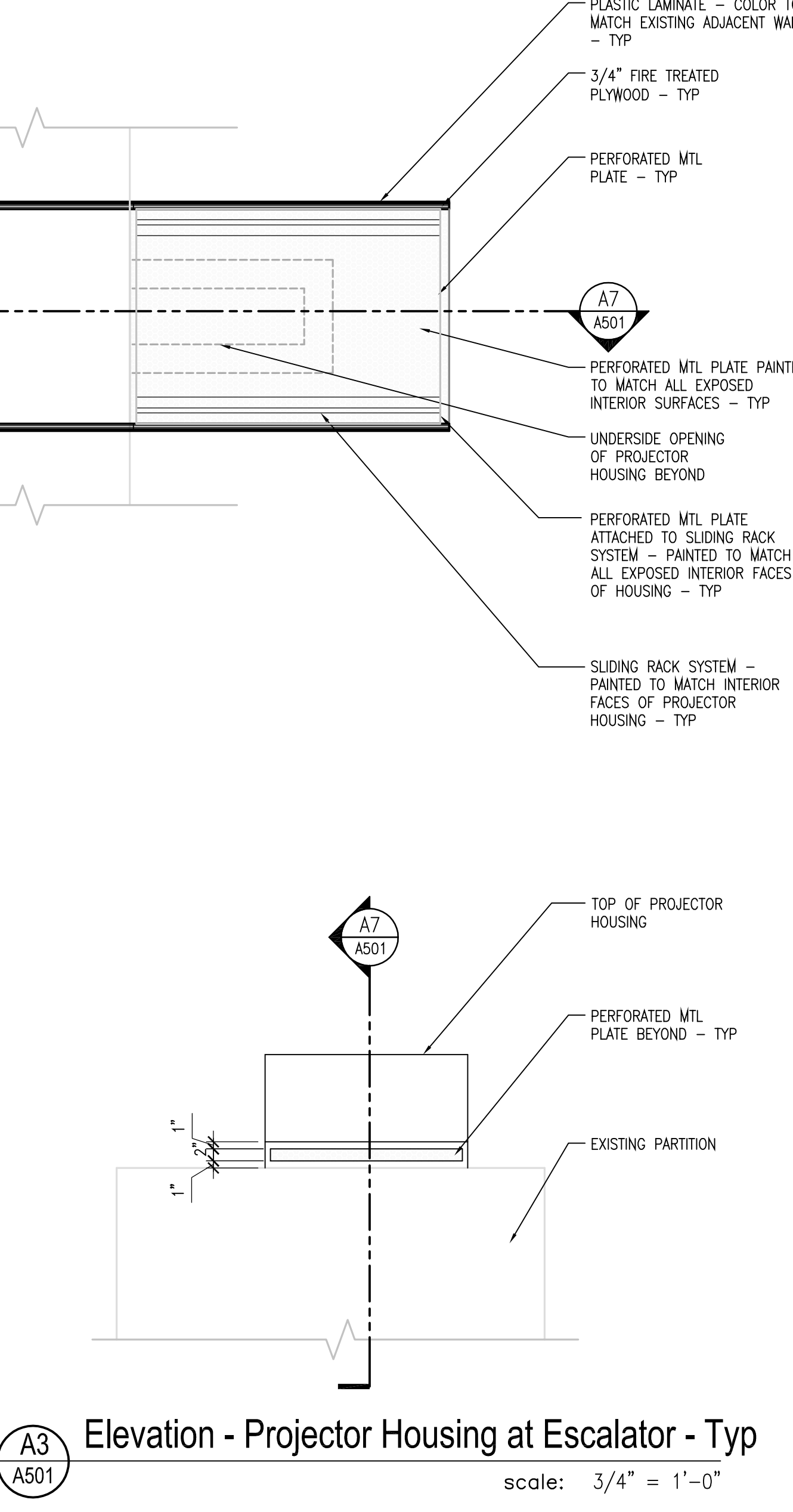
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**A501**  
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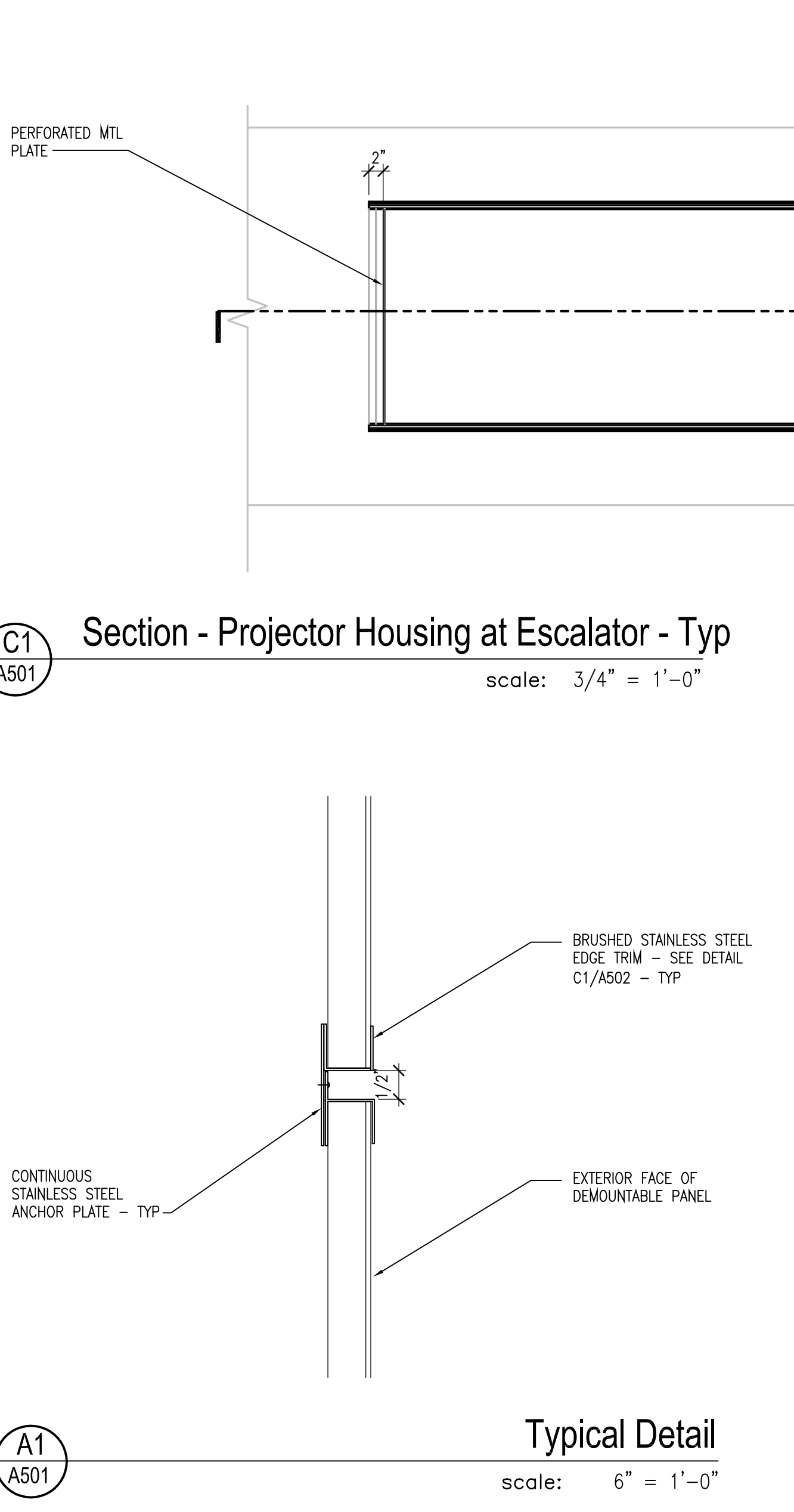
**A7**  
**A501**  
**Section - Projector Housing at Escalator - Typ**  
 scale: 3/4" = 1'-0"



**A5**  
**A501**  
**Iso - Projector Housing at Escalator - Typ**  
 scale: 3/4" = 1'-0"



**A3**  
**A501**  
**Elevation - Projector Housing at Escalator - Typ**  
 scale: 3/4" = 1'-0"



**C1**  
**A501**  
**Section - Projector Housing at Escalator - Typ**  
 scale: 3/4" = 1'-0"



**A1**  
**A501**  
**Typical Detail**  
 scale: 6" = 1'-0"

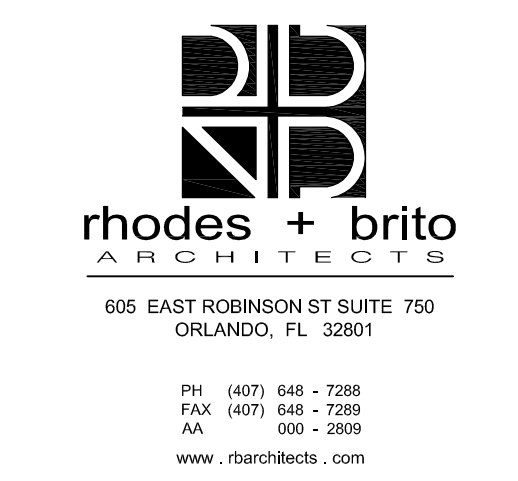
**Orange County Convention Center North/South Building Projector Modifications**

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

**Engineer:**



**Architect:**



**Structural Engineer:**

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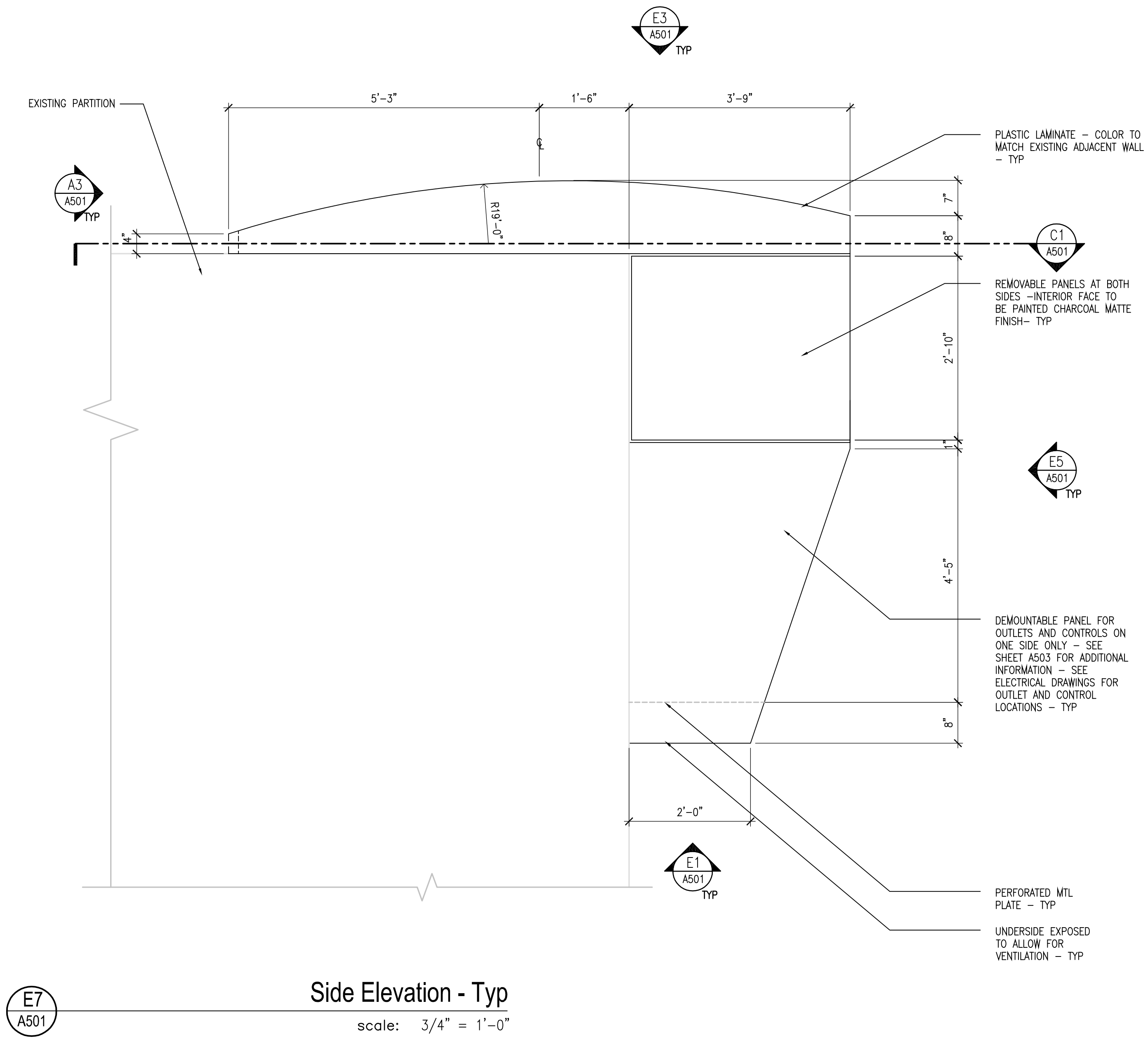
**DETAILS FOR PROJECTOR HOUSING AT ESCALATOR**

**Sheet Title**

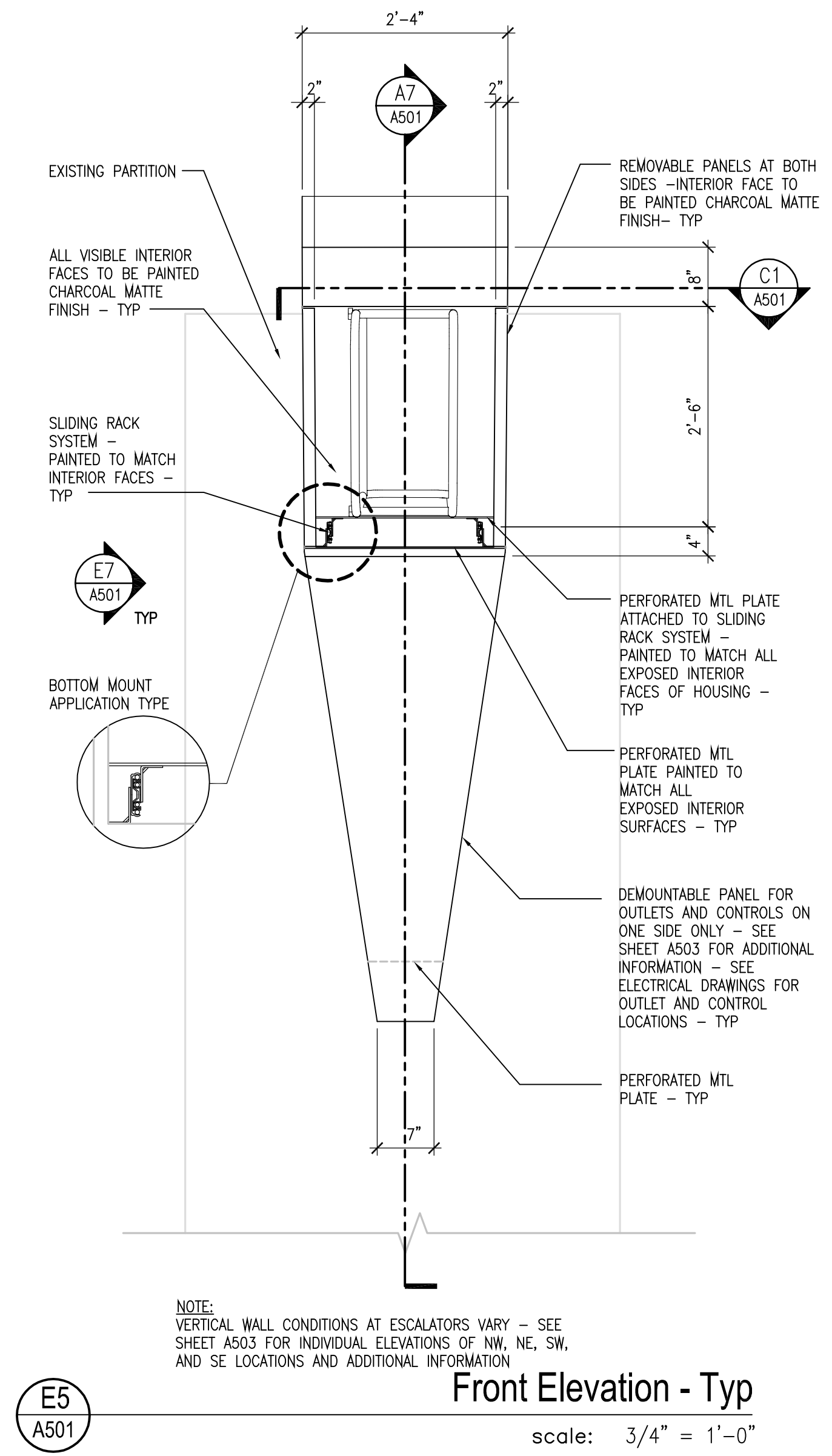
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**A501**

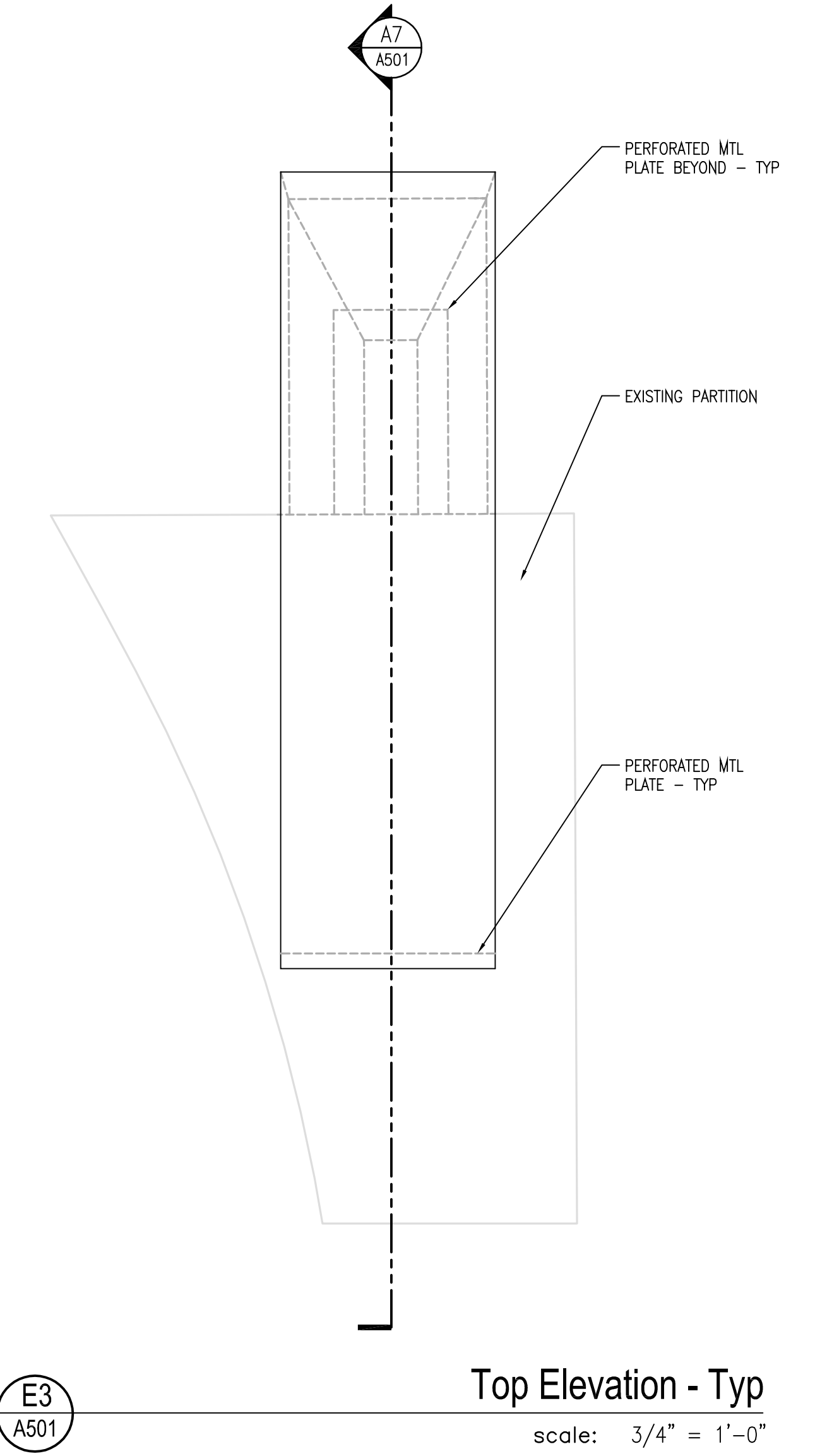
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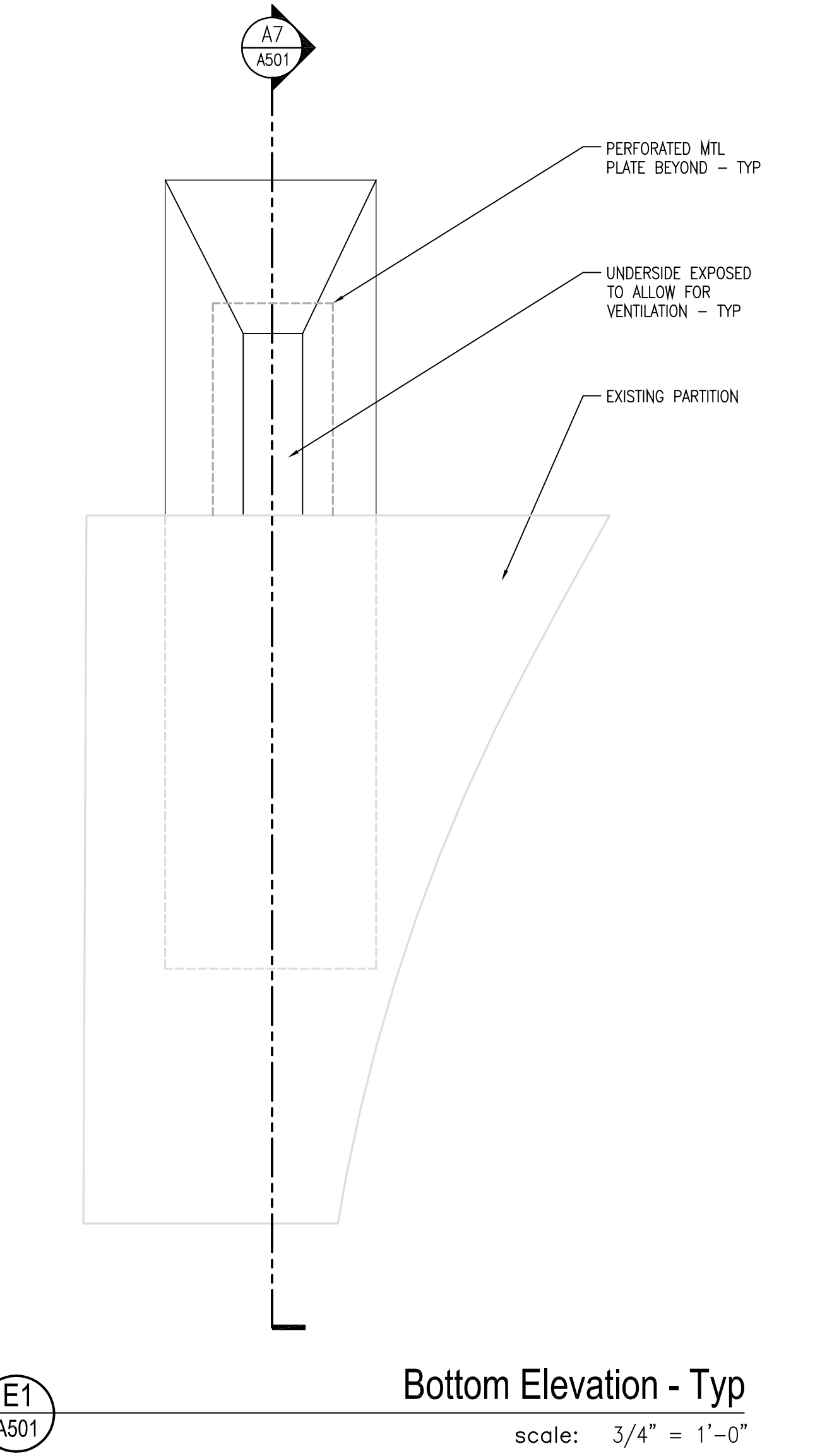
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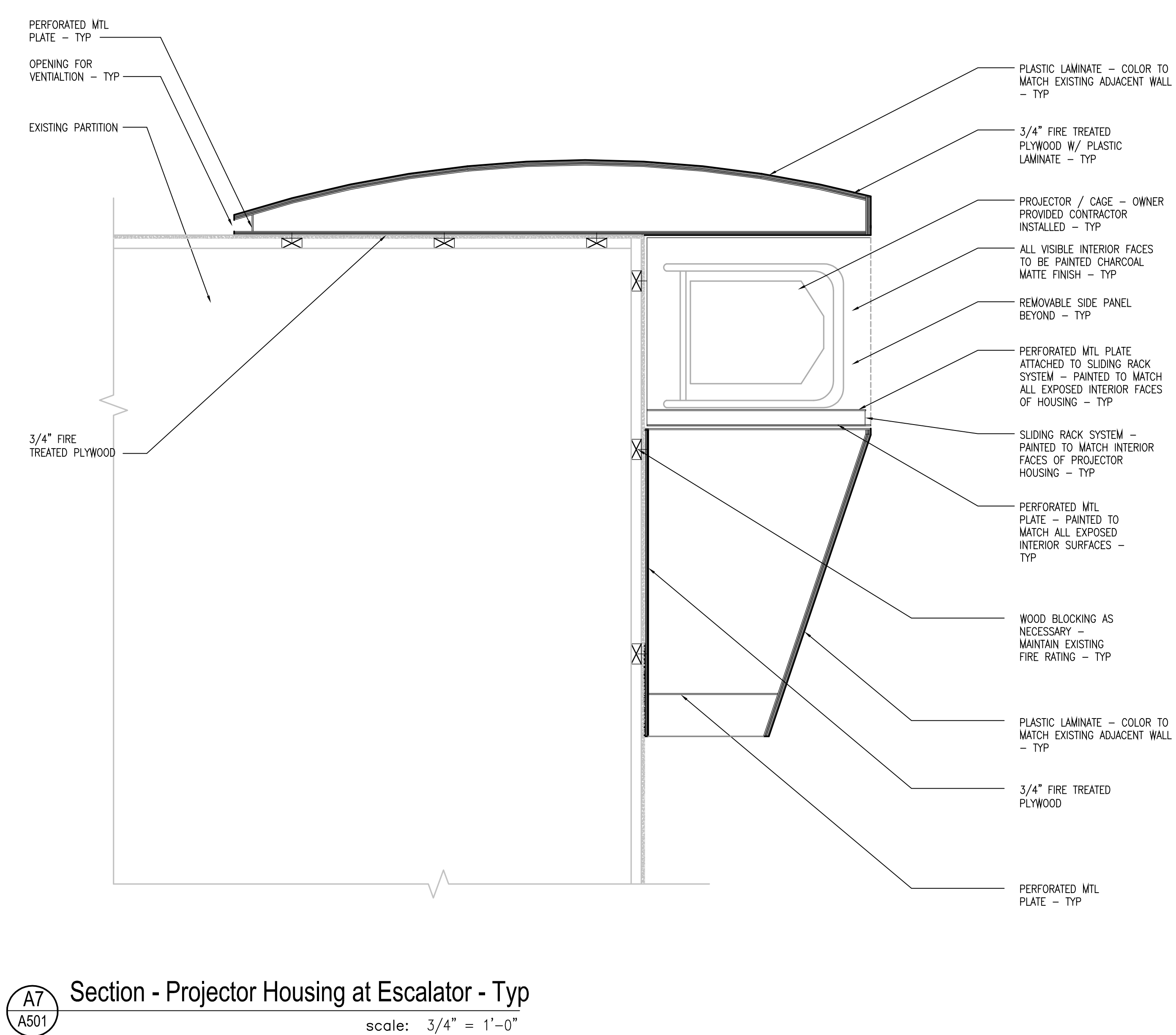
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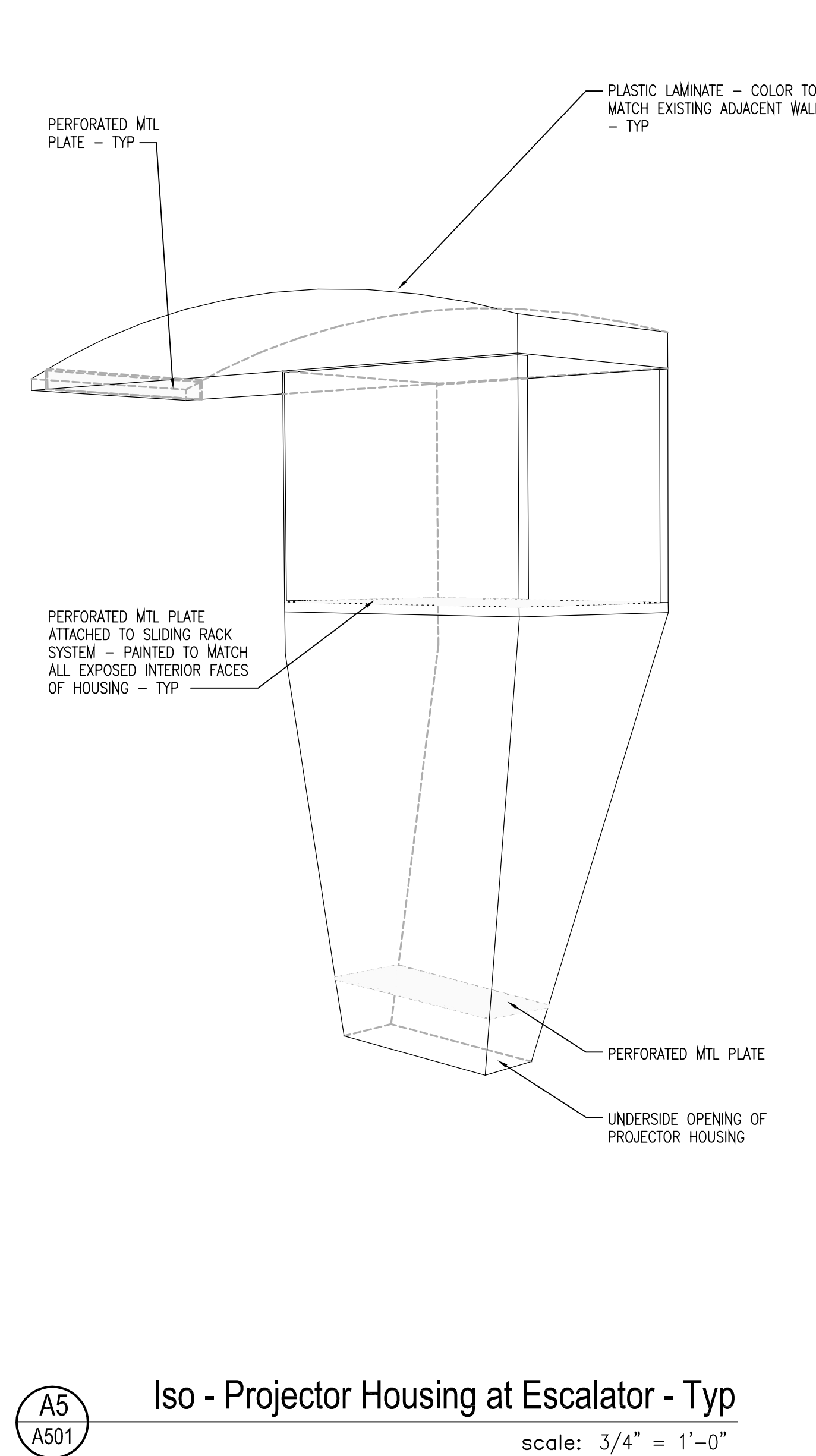
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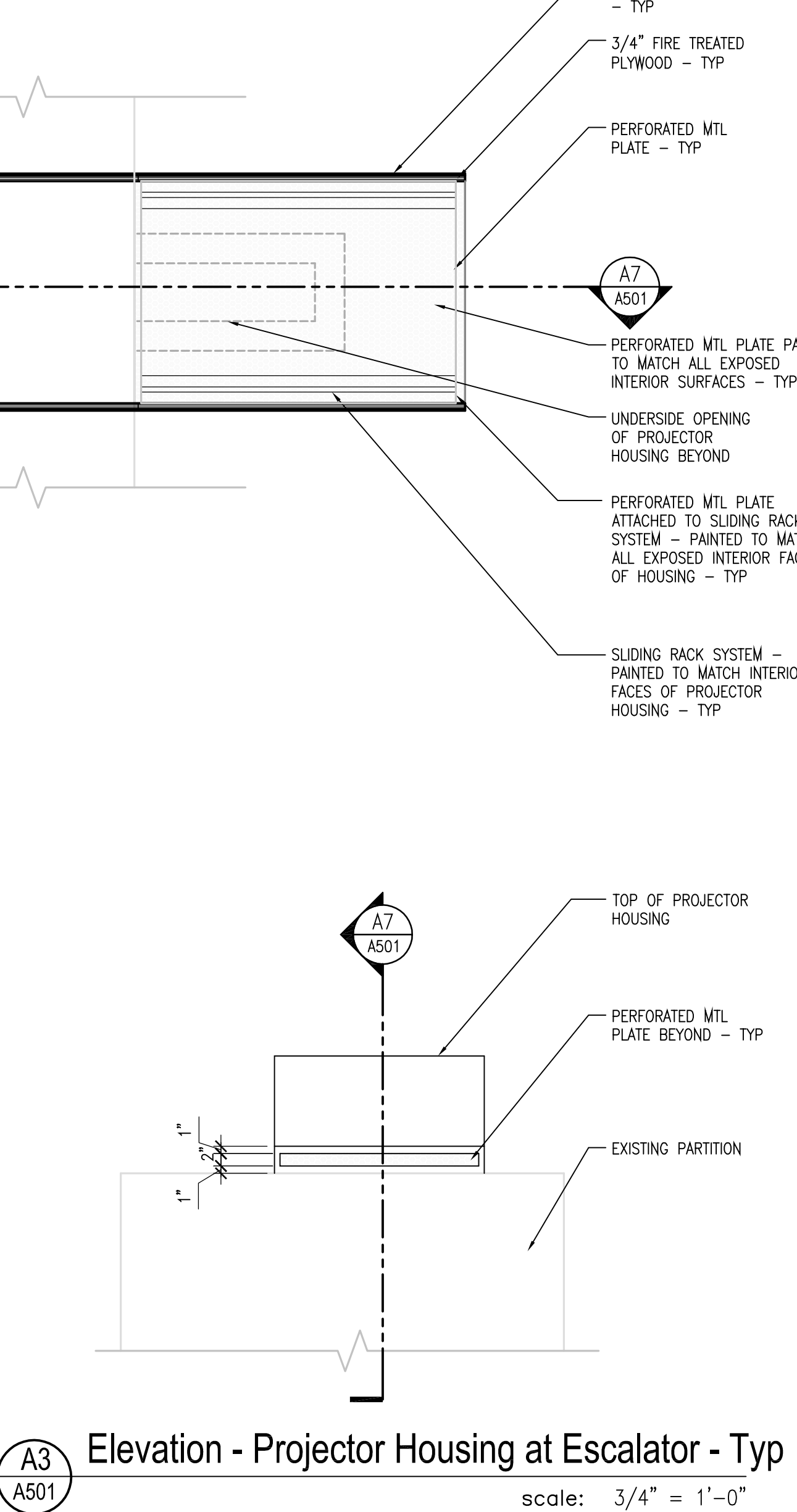
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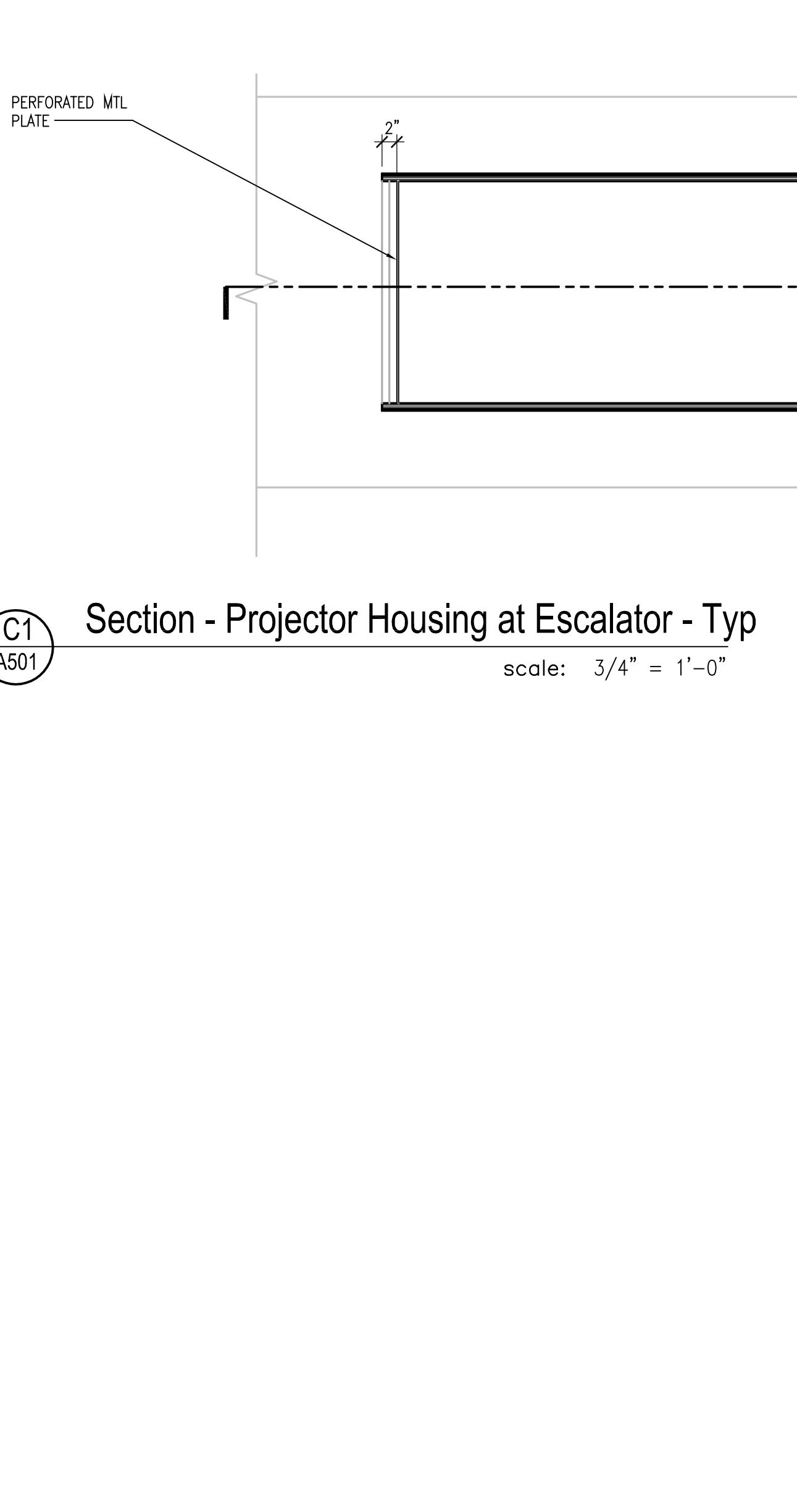
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**Iso - Projector Housing at Escalator - Typ**  
scale: 3/4" = 1'-0"



**Elevation - Projector Housing at Escalator - Typ**  
scale: 3/4" = 1'-0"



**Section - Projector Housing at Escalator - Typ**  
scale: 3/4" = 1'-0"

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

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

**Engineer:**  
**MILAN**  
ENGINEERING  
905 S Semoran Blvd (Suite 100)  
Winter Park, FL 32789  
407.278.2099  
Certification of Professional Engineer #492271  
Florida Statute 481.007(1) Registered

**Architect:**  
**rhodes + brito**  
ARCHITECTS  
605 EAST ROBINSON ST SUITE 750  
ORLANDO, FL 32801  
PH (407) 648-7388  
FAX (407) 648-7288  
AN 1001-2-2008  
www.rhodesbrito.com

**Structural Engineer:**

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Maximiano Brito, RA, AIA  
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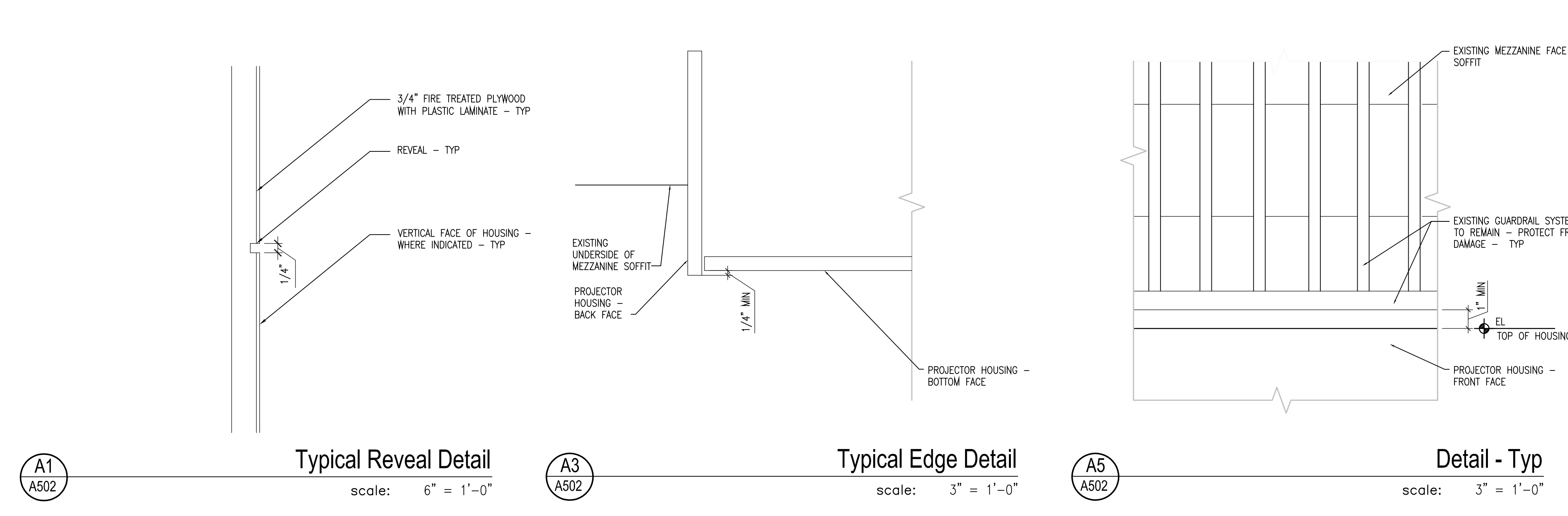
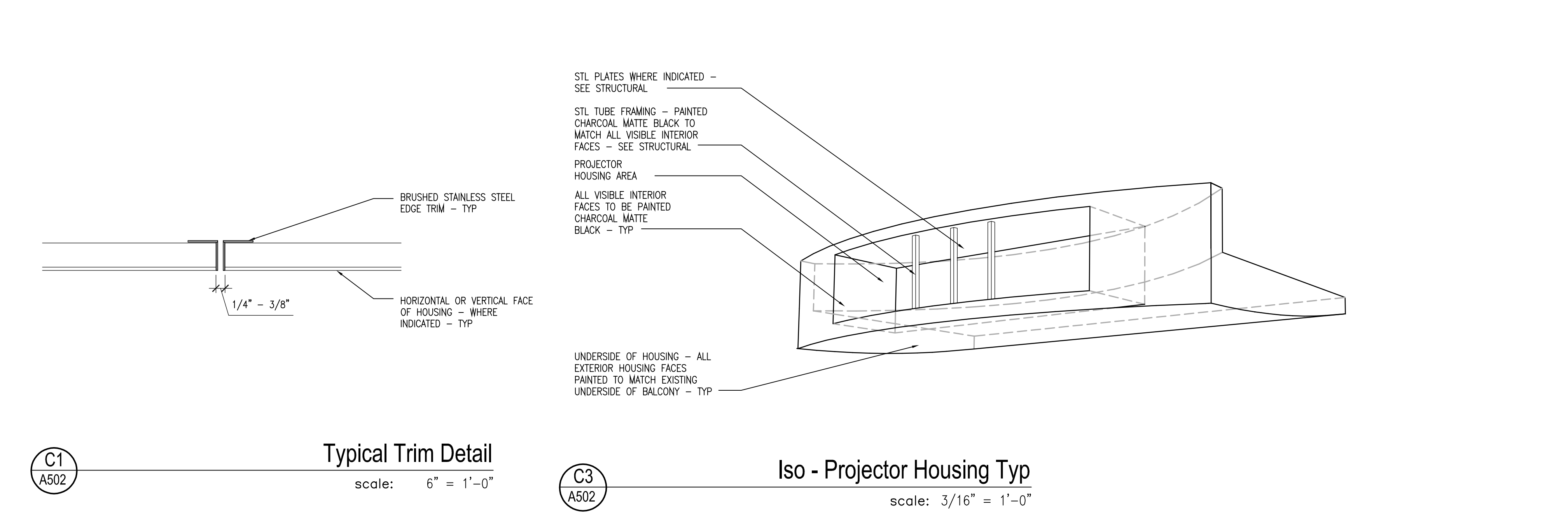
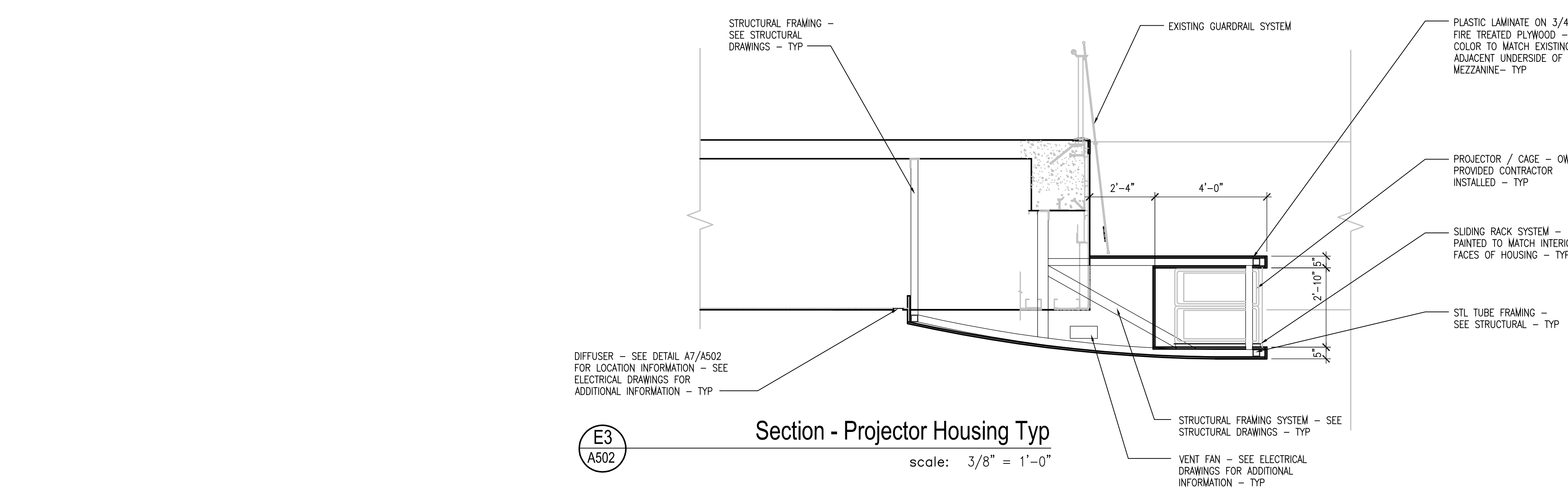
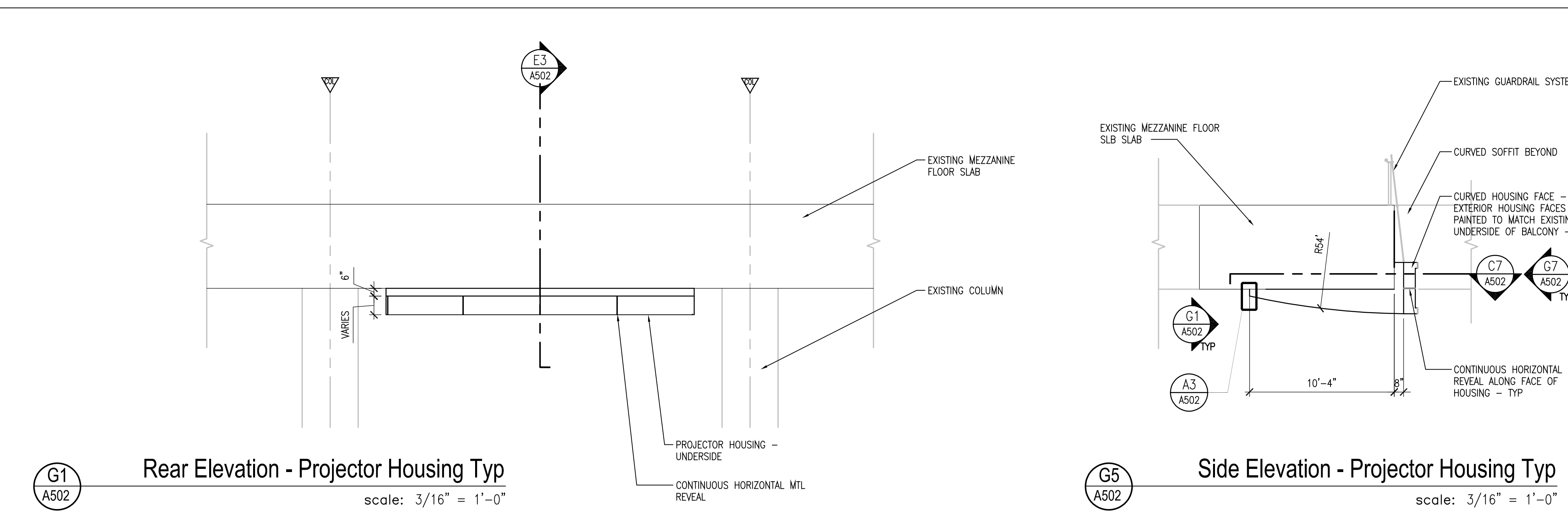
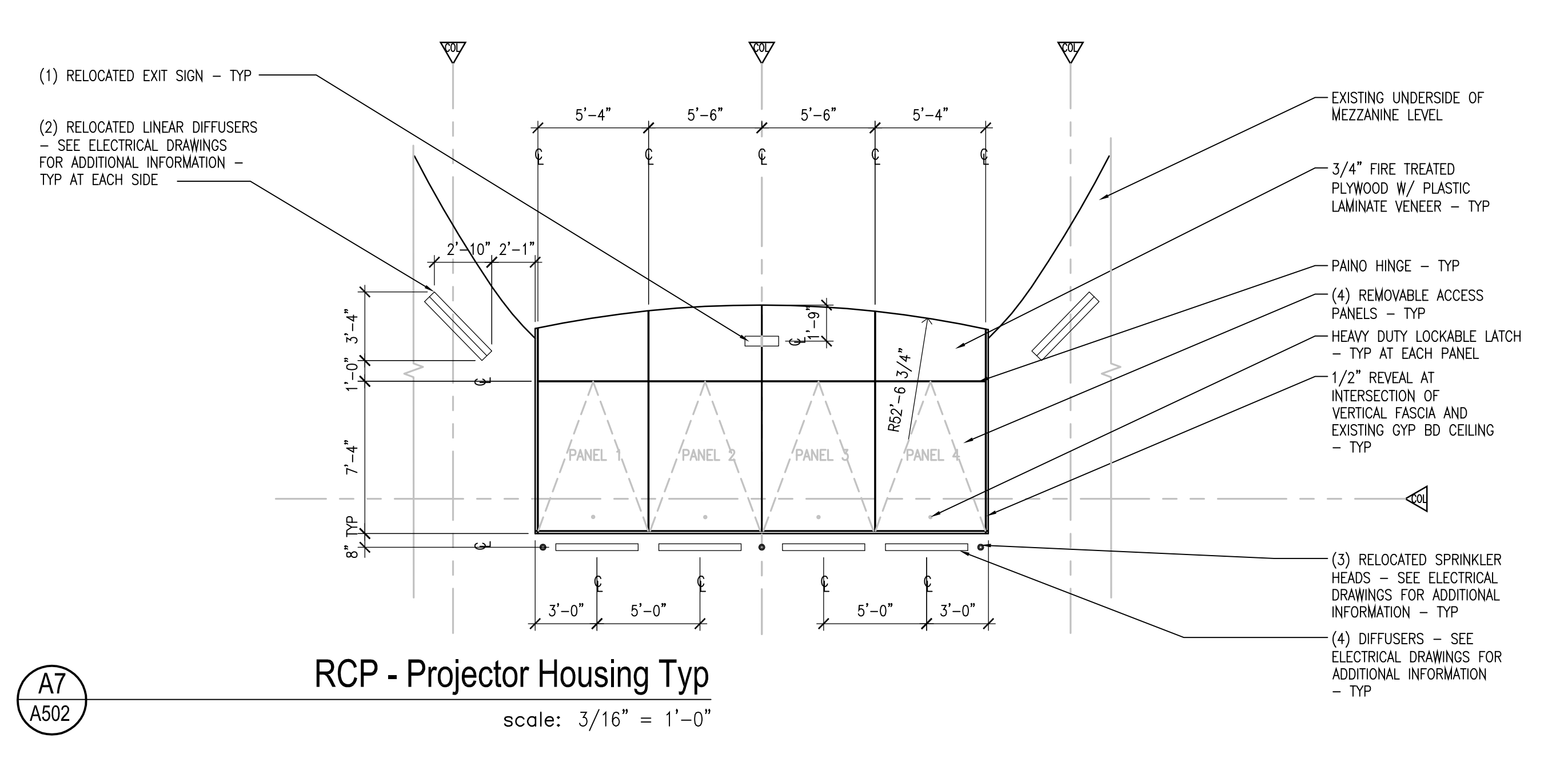
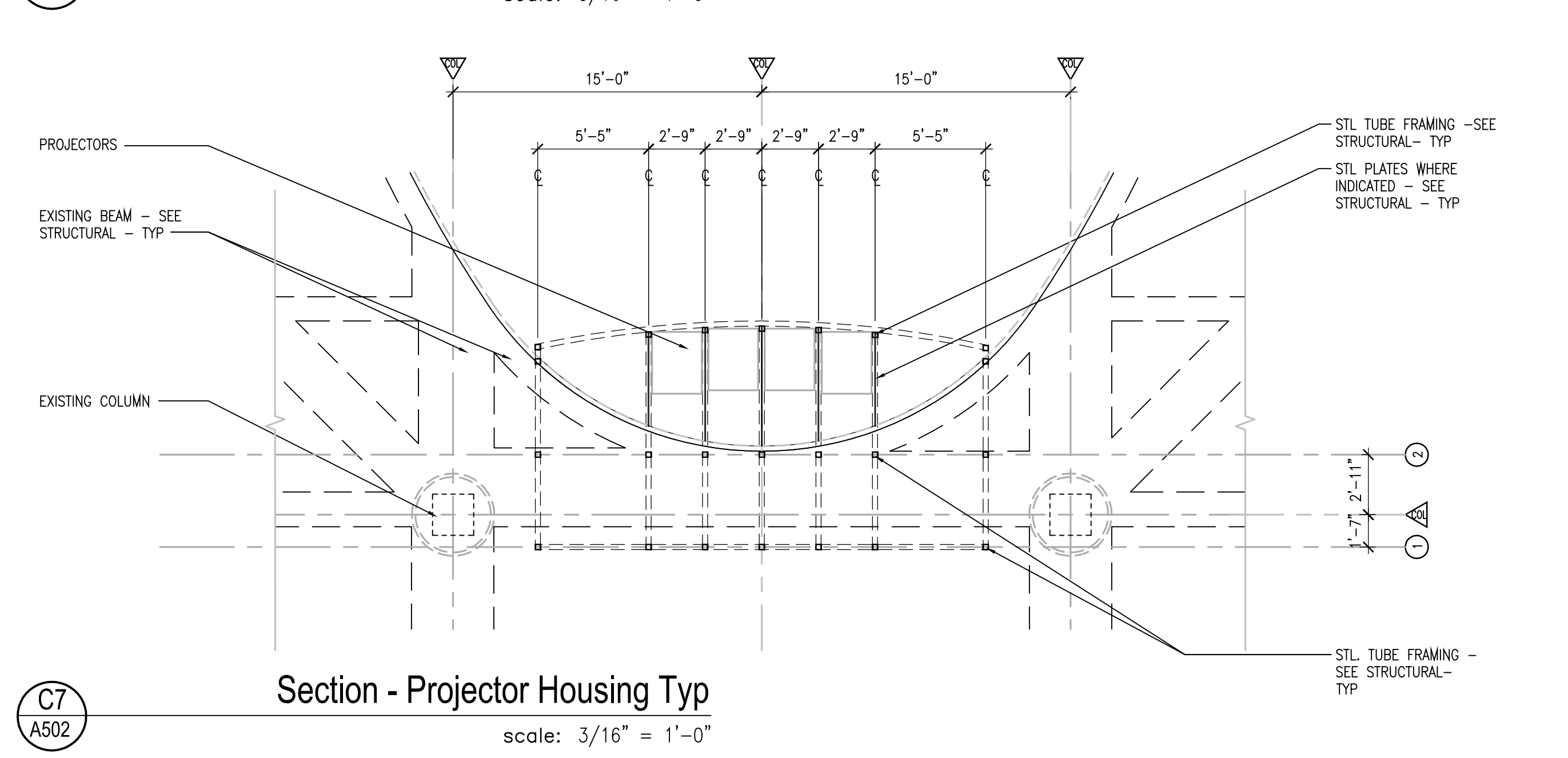
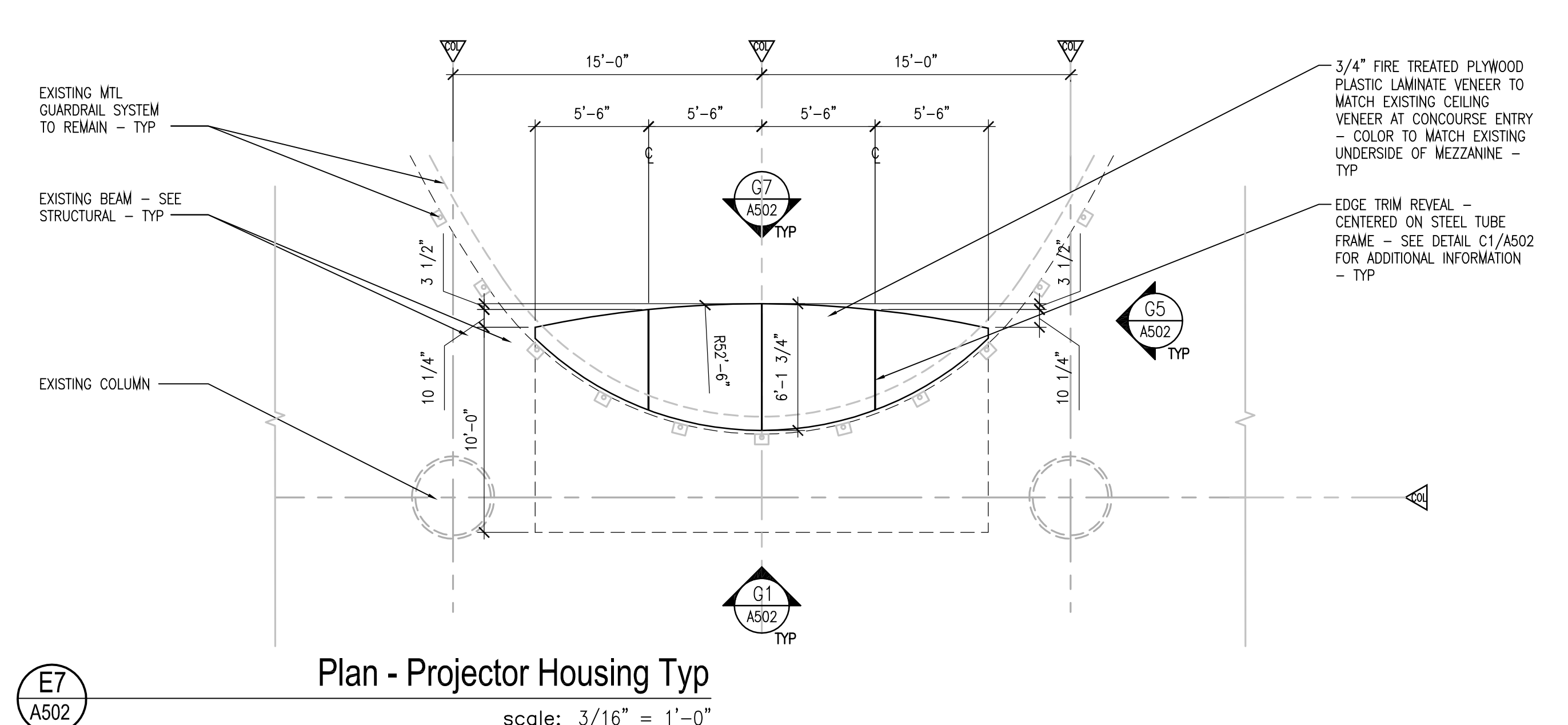
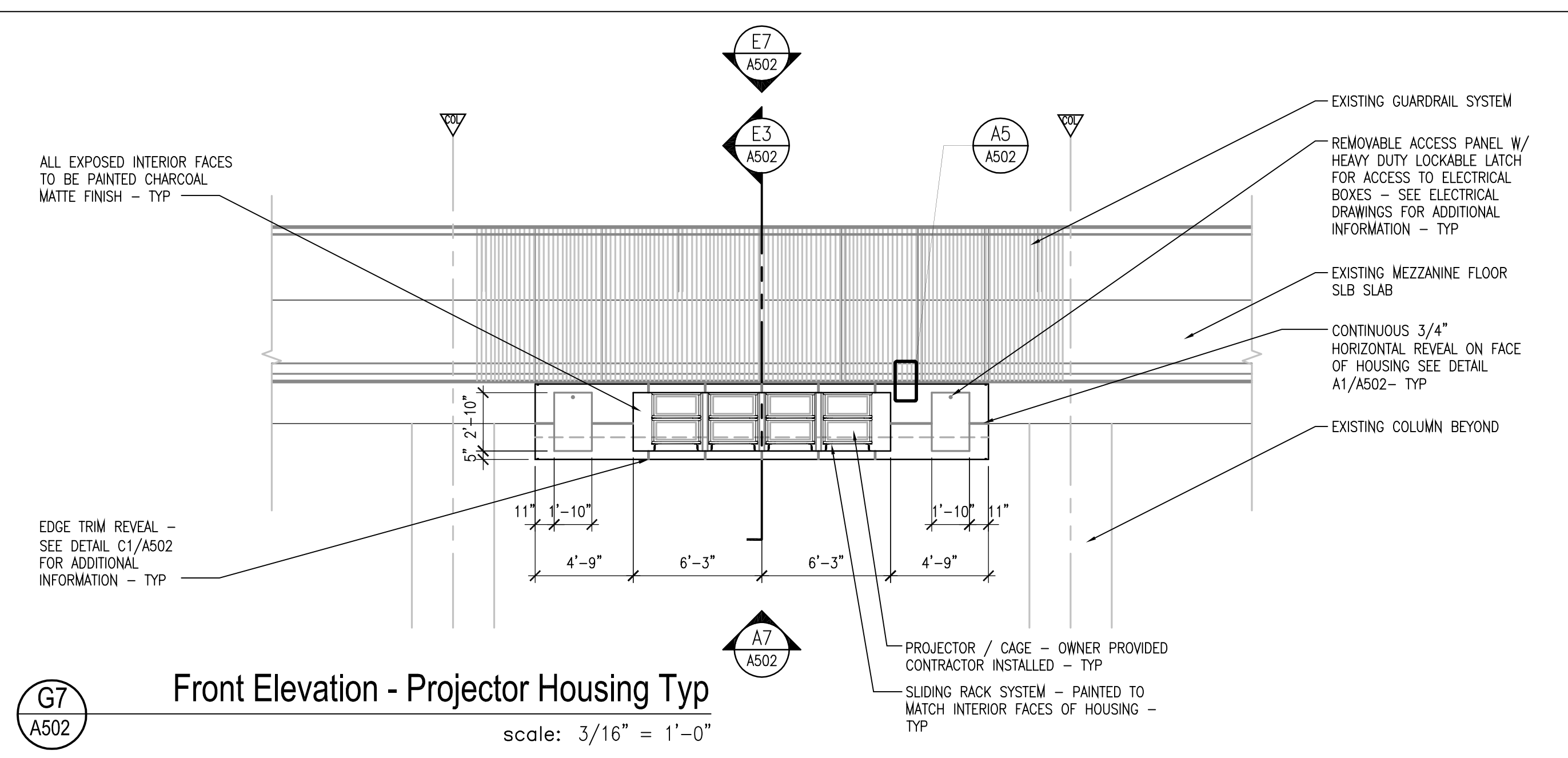
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**DETAILS FOR  
PROJECTOR HOUSING  
AT MEZZANINE**

**Sheet Title**  
  
**Job No.** 14-564  
**Date** January 6, 2014  
**Drawn** LF  
**Checked** MB  
**Scale** AS SHOWN

**A502**

**Sheet No.**



Orange County Convention Center  
 North/South Building Projector Modifications

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

Engineer:



Architect:



Structural Engineer:

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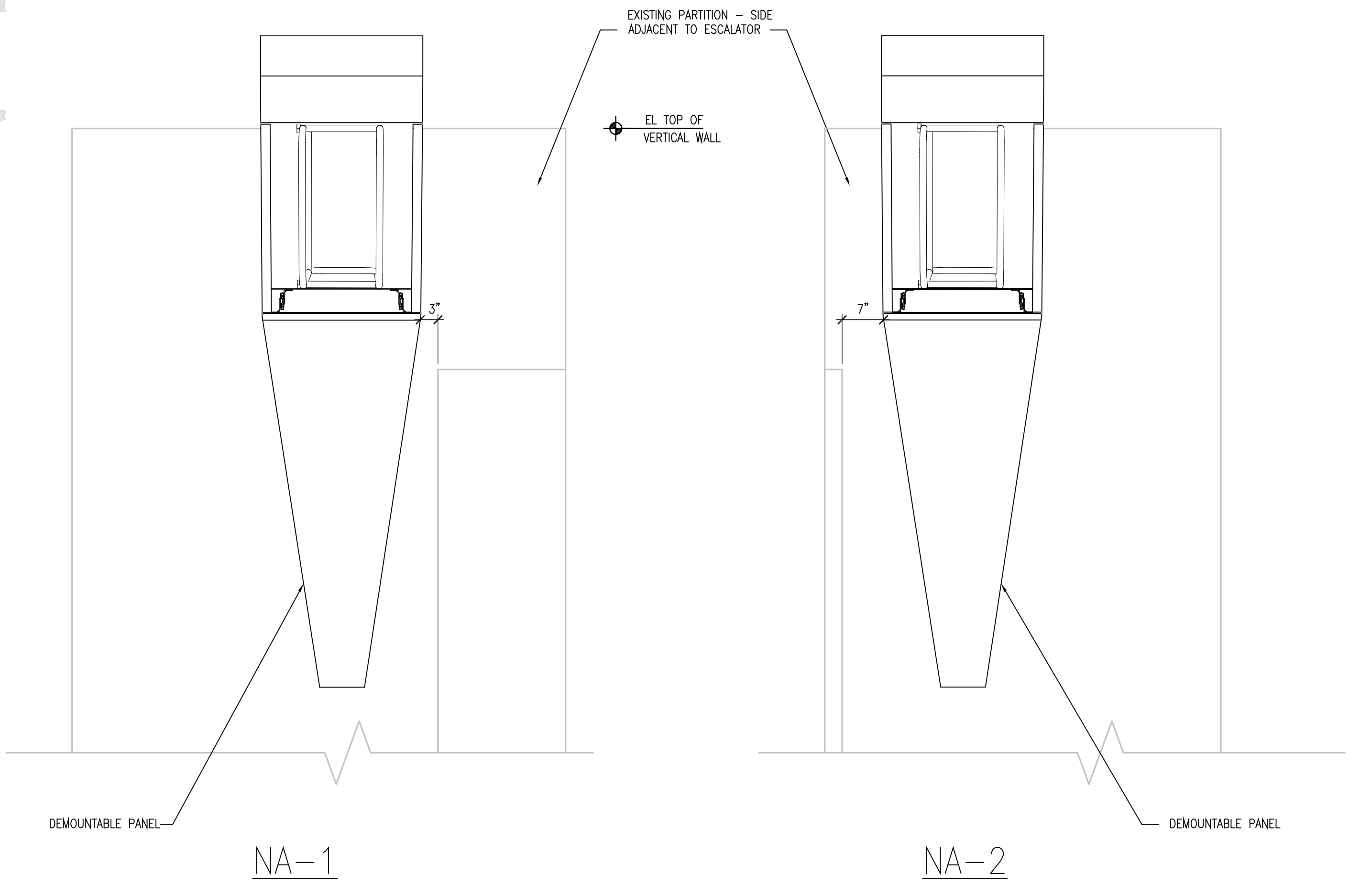
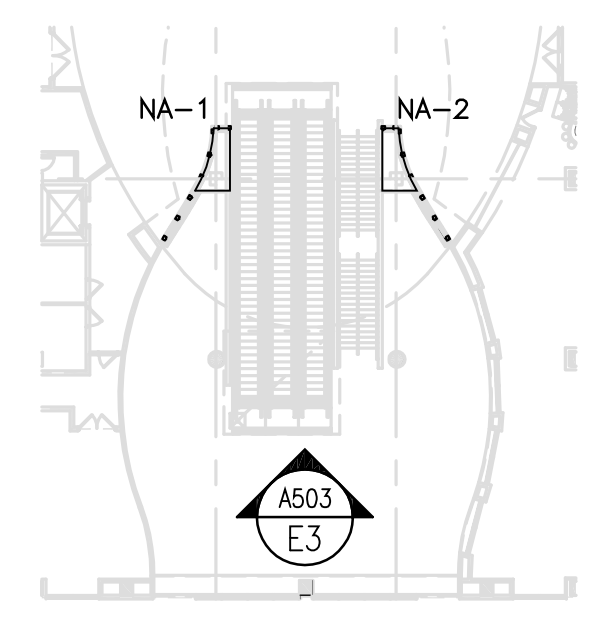
ELEVATIONS -  
 INDIVIDUAL ESCALATOR  
 PROJECTOR LOCATIONS

Sheet Title

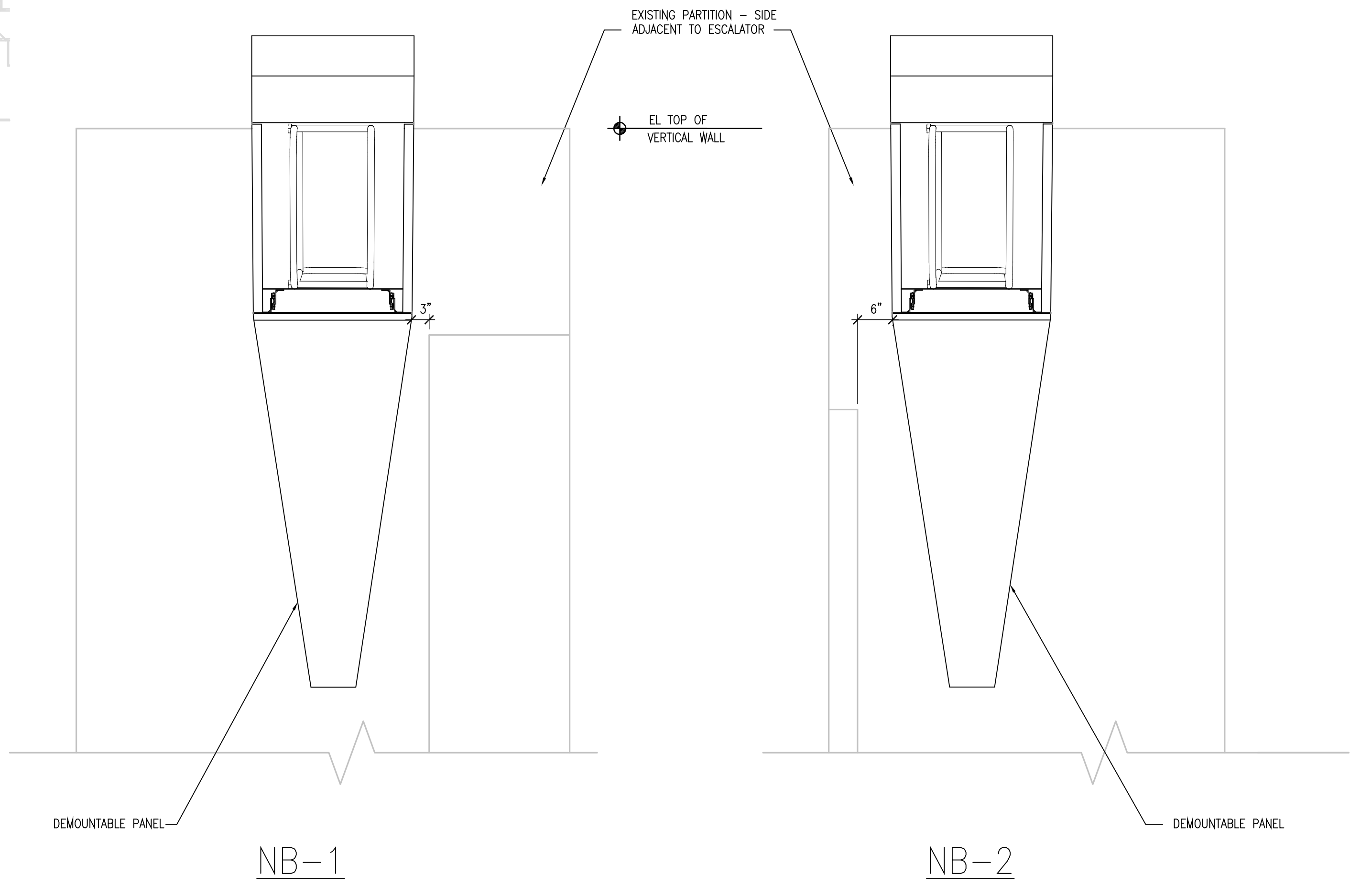
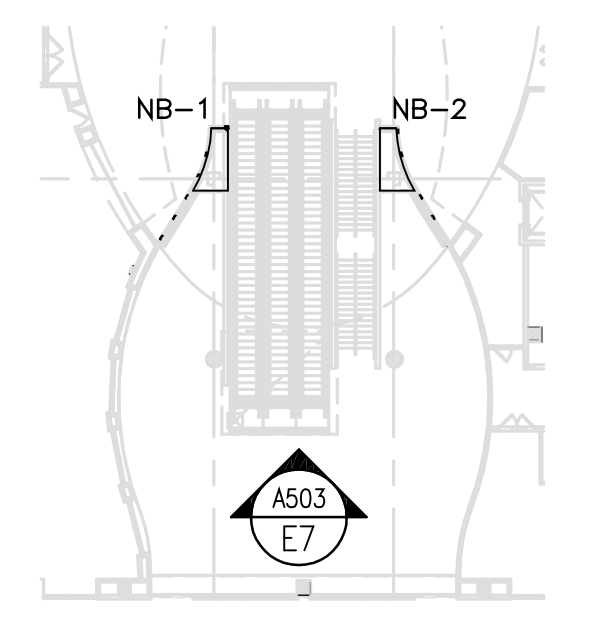
Job No. 14-564  
 Date January 6, 2014  
 Drawn LF  
 Checked MB  
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A503

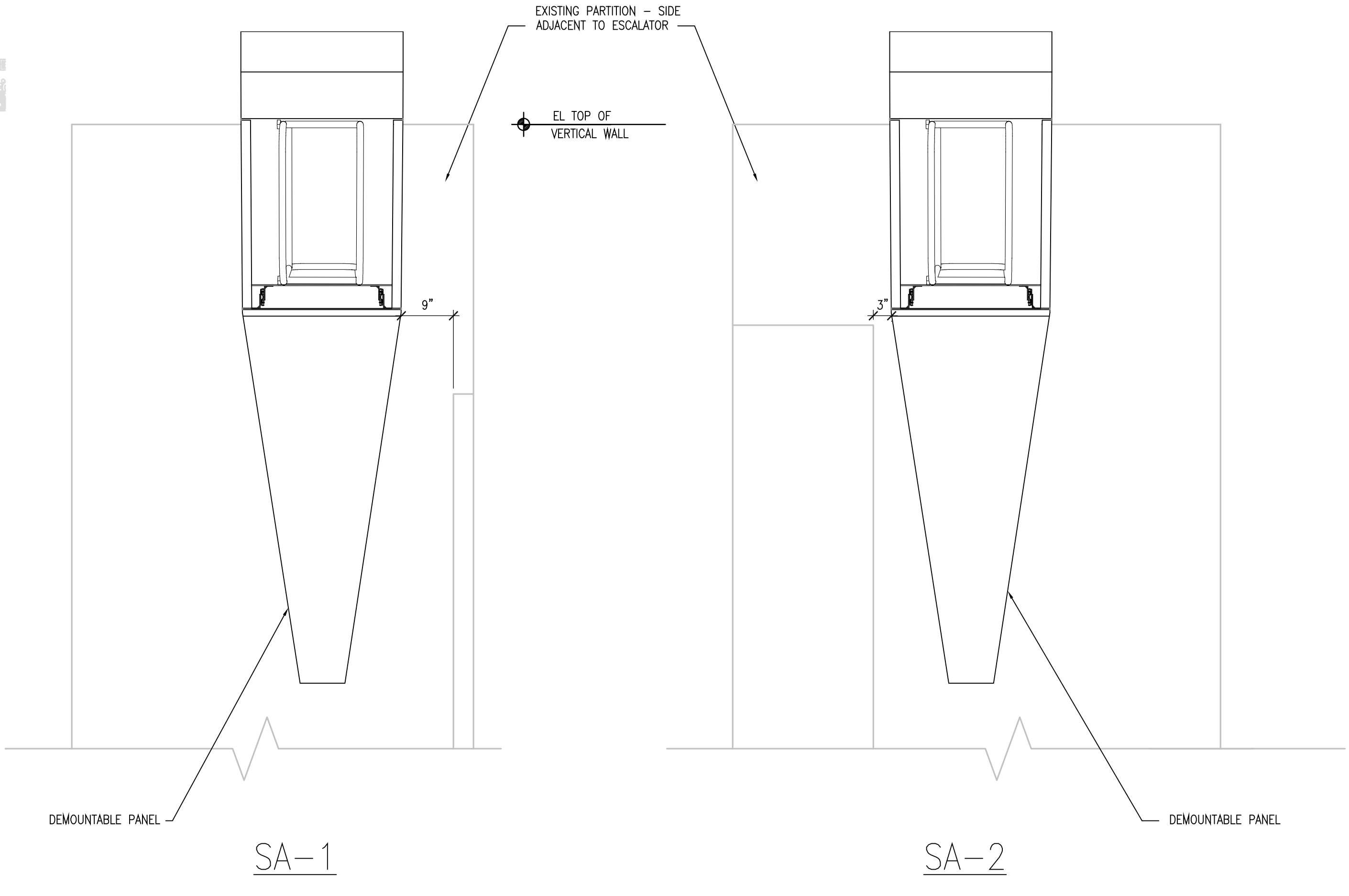
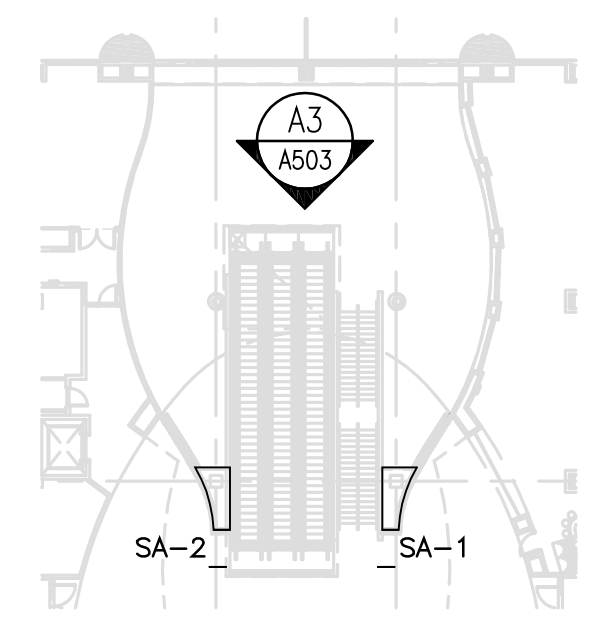
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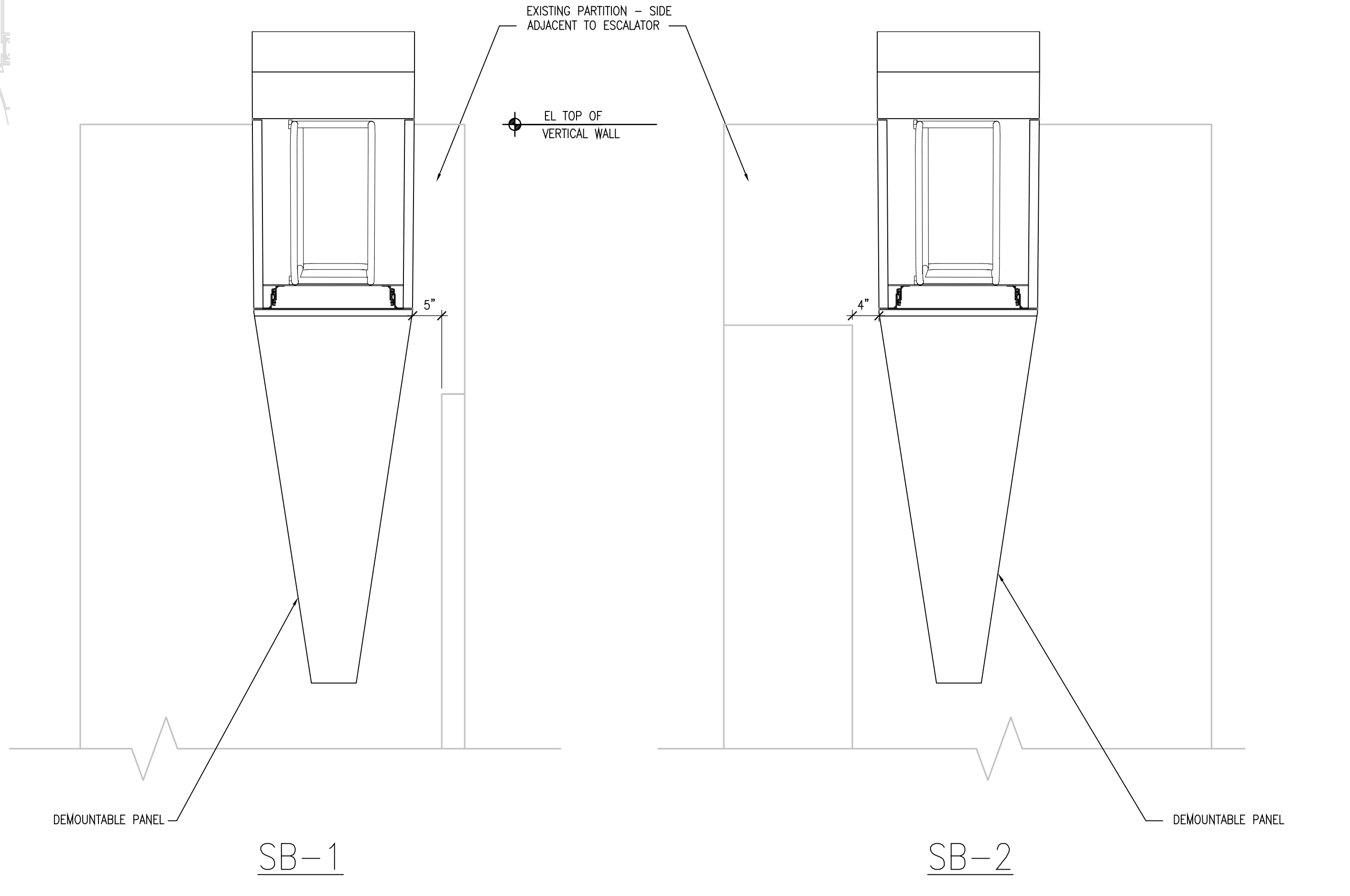
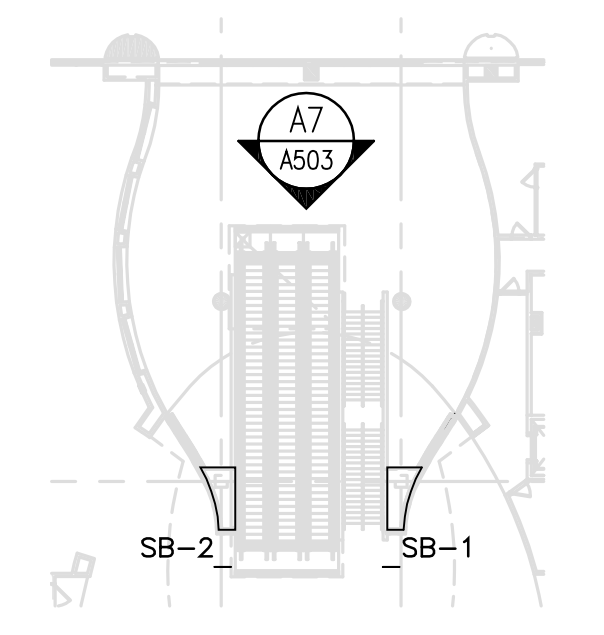
**E3**  
 A503 Northwest Location - Elevation  
 scale: 3/4" = 1'-0"



**E7**  
 A503 Northeast Location - Elevation  
 scale: 3/4" = 1'-0"



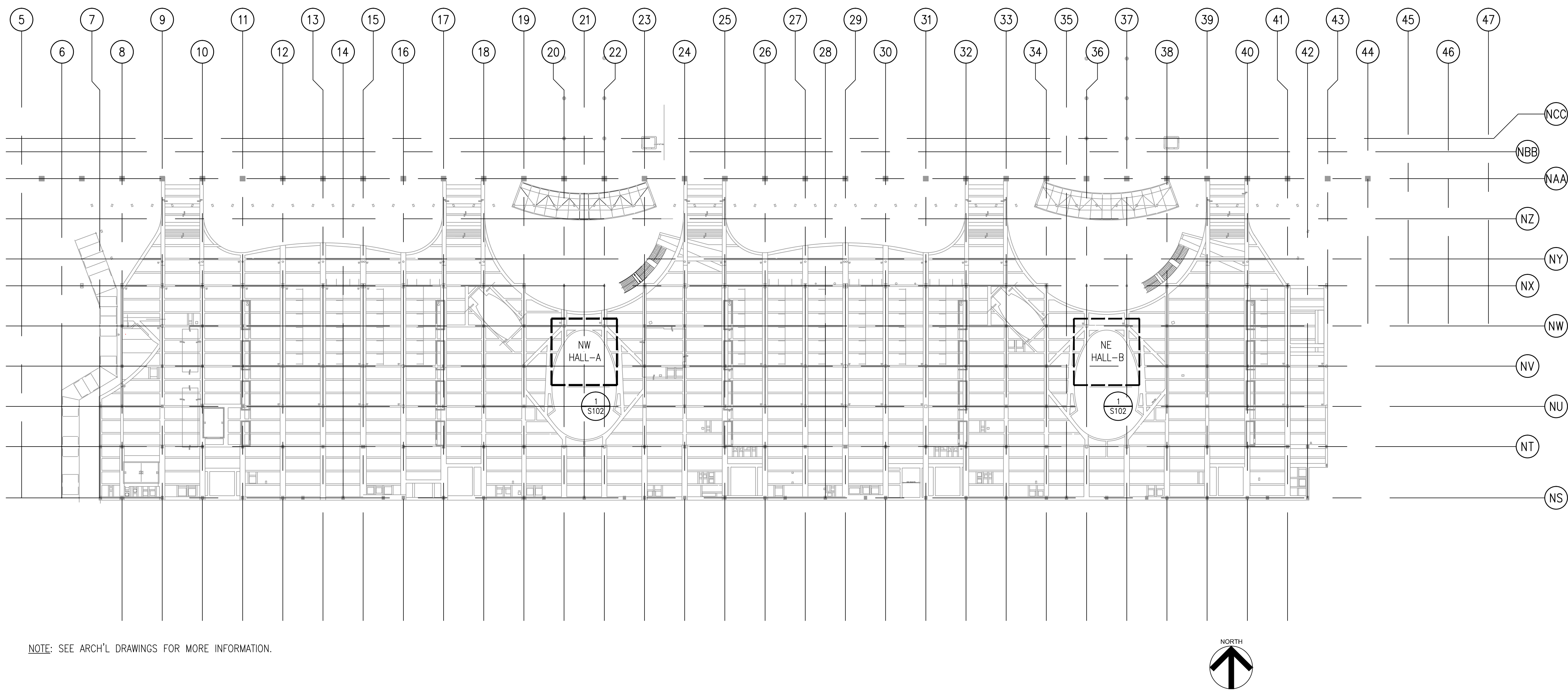
**A1**  
 A503 Southwest Location - Elevation  
 scale: 3/4" = 1'-0"



**A7**  
 A503 Southeast Location - Elevation  
 scale: 3/4" = 1'-0"



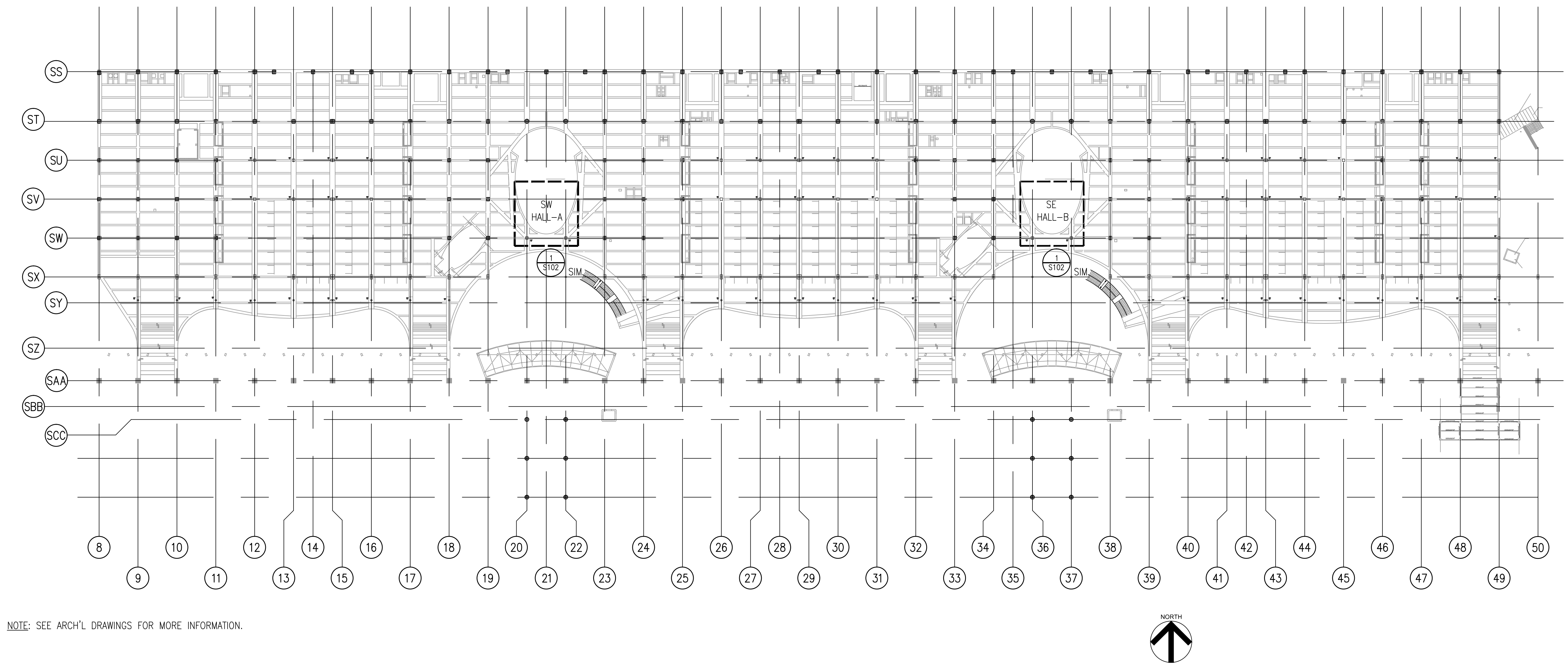




NOTE: SEE ARCH'L DRAWINGS FOR MORE INFORMATION.

2 OVERALL PLAN - NORTH MEZZANINE LEVEL 3

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



NOTE: SEE ARCH'L DRAWINGS FOR MORE INFORMATION.

1 OVERALL PLAN - SOUTH MEZZANINE LEVEL 3

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



Orange County Convention Center  
North/South Building Projector Modifications

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

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Professional Seal with Project Registration

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CERTIFICATE OF AUTHORIZATION No. 27343  
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STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
05 - Jan - 2015  
LAURA BARBERO-BUFFA, P.E. No. 74027

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**STRUCTURAL OVERALL PLAN**

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Job No. 14-564  
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**S101**  
Sheet No.

Orange County  
Convention  
Center  
North/South  
Building Projector  
Modifications

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

Engineer:



Architect:

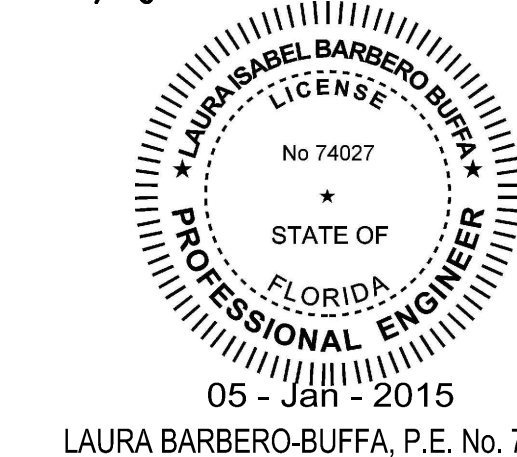


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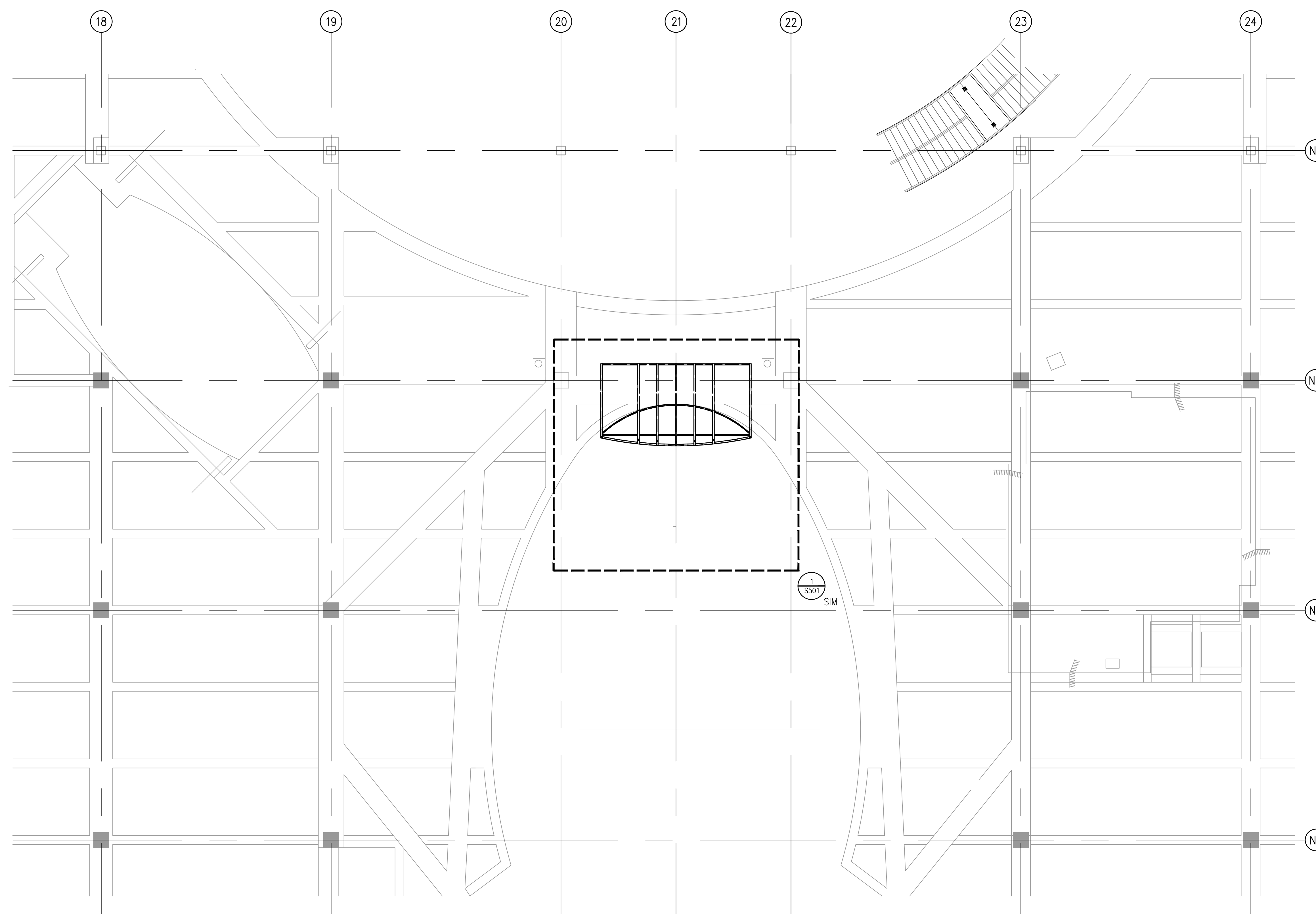
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STRUCTURAL  
ENLARGED  
PLAN

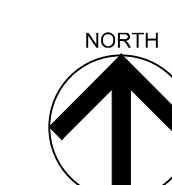
Sheet Title

Job No. 14-564  
Date JANUARY 6, 2015  
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NOTE: SEE ARCH'L DRAWINGS FOR MORE INFORMATION.



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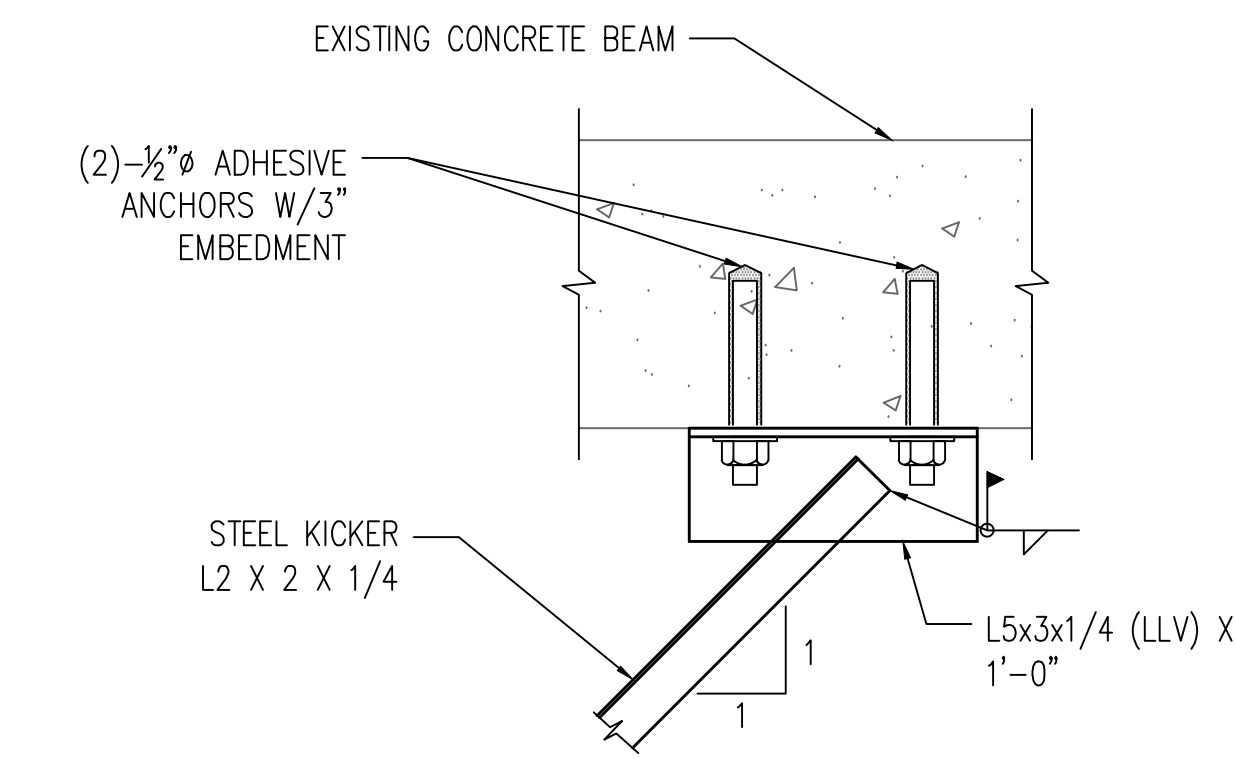
  

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**STRUCTURAL DETAILS**

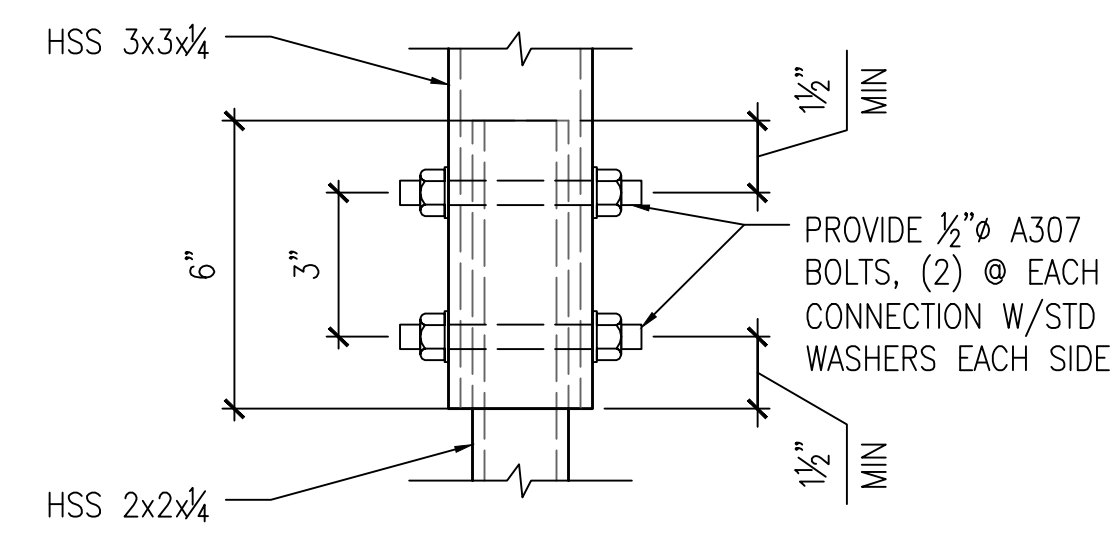
Sheet Title

Job No.	14-564
Date	JANUARY 6, 2015
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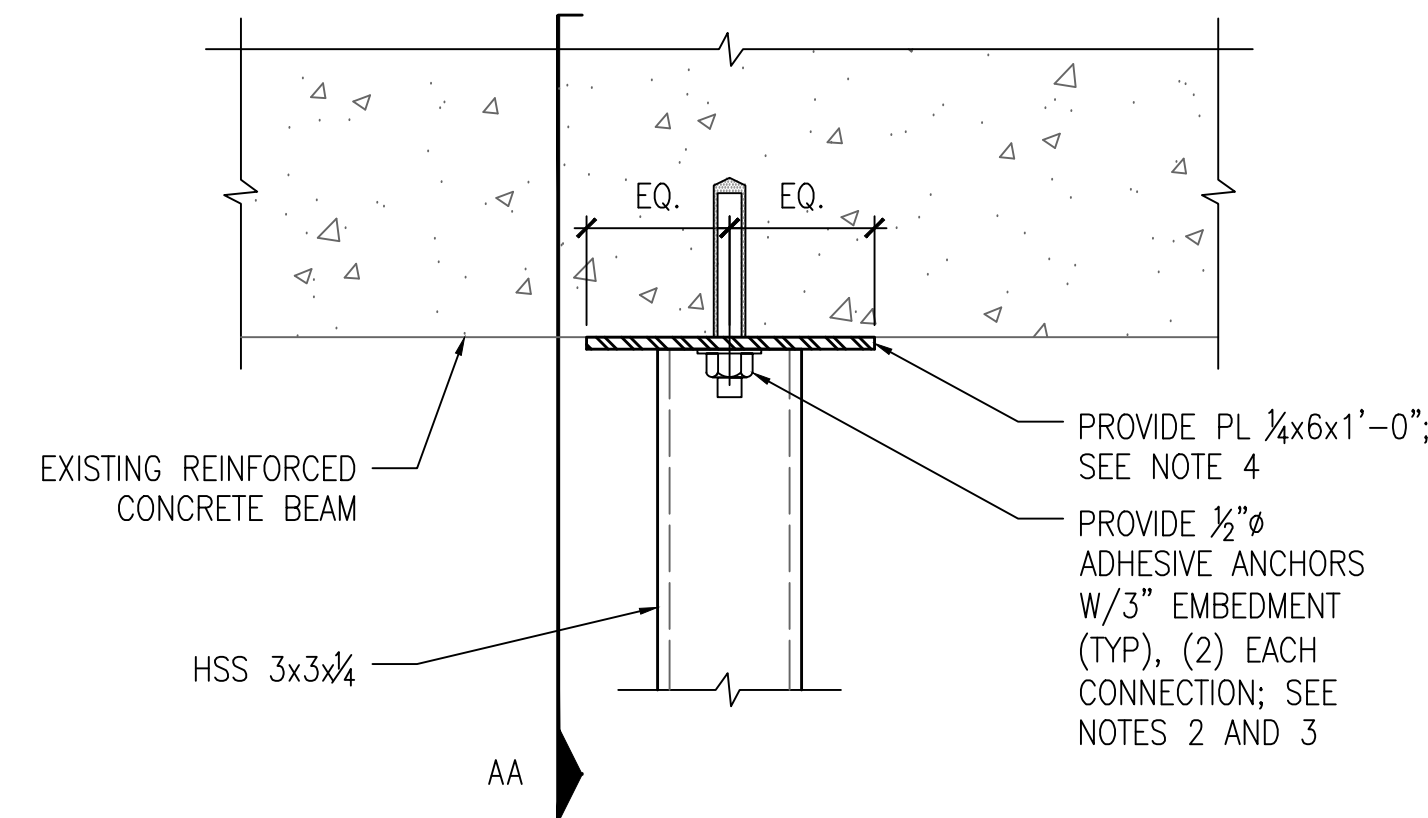
- NOTES:  
 1. LOCATE ANCHORS TO AVOID EXISTING REINFORCEMENT.  
 2. SEE DETAIL 12/S501 FOR ADDITIONAL INFO.

16 S501 KICKER ATTACHMENT TO EXISTING CONCRETE BEAM SCALE: N.T.S.



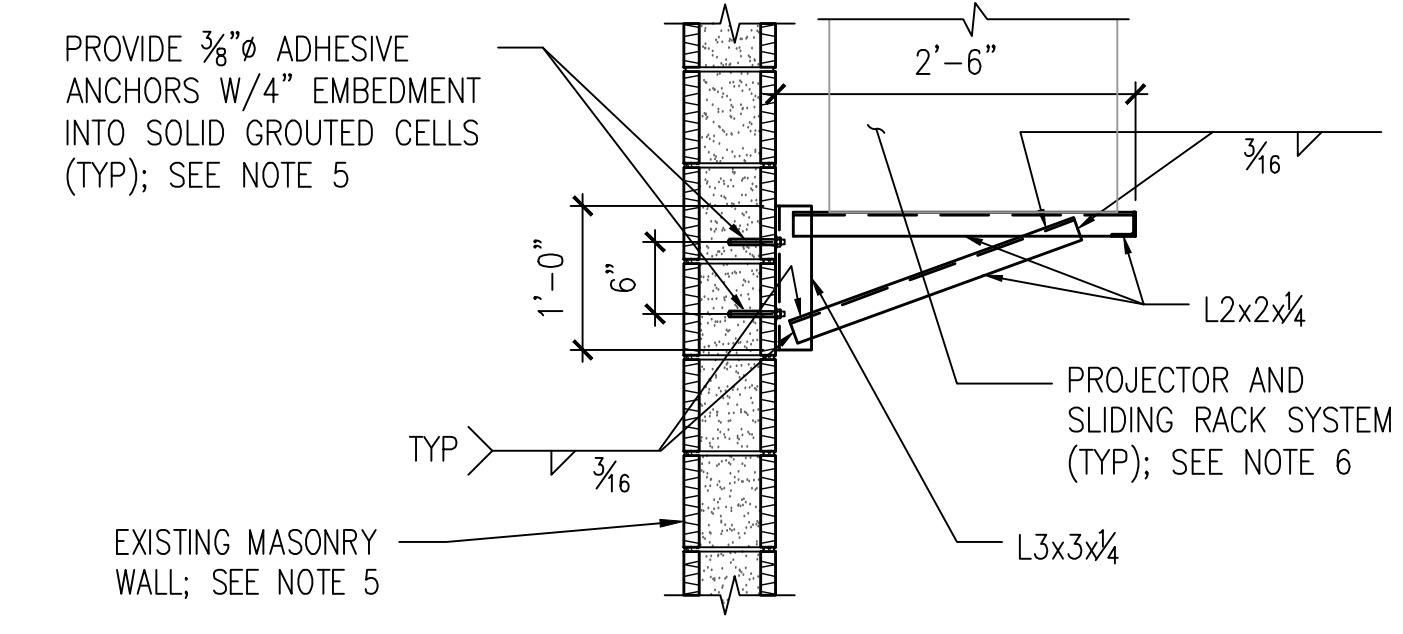
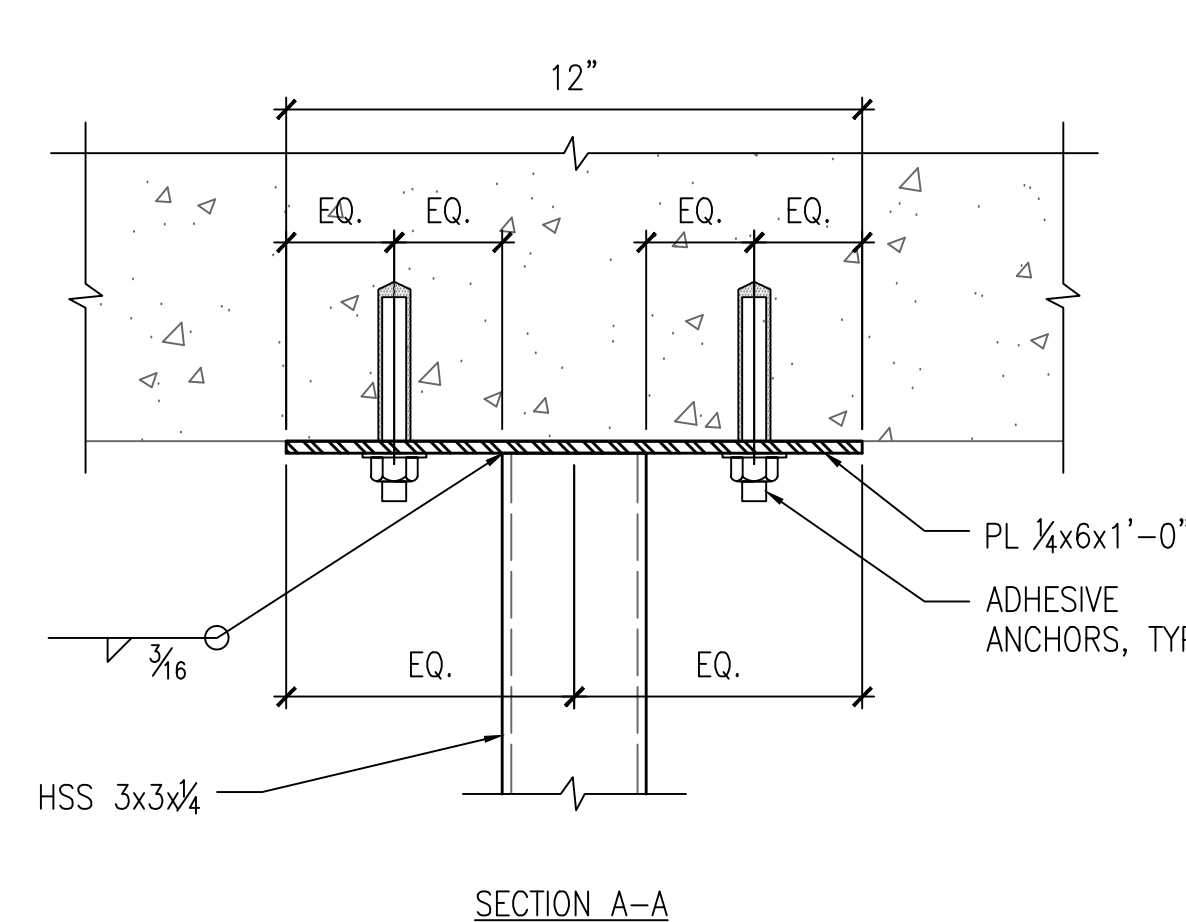
- NOTE:  
 1. ATTACHMENT IS DESIGNED FOR A MAX LOAD OF 600 LBS. NOTIFY ENGINEER IF LOAD EXCEEDS THIS AMOUNT.

11 S501 TYPICAL CONNECTION AT HANGER SCALE: 3/4" = 1'-0"



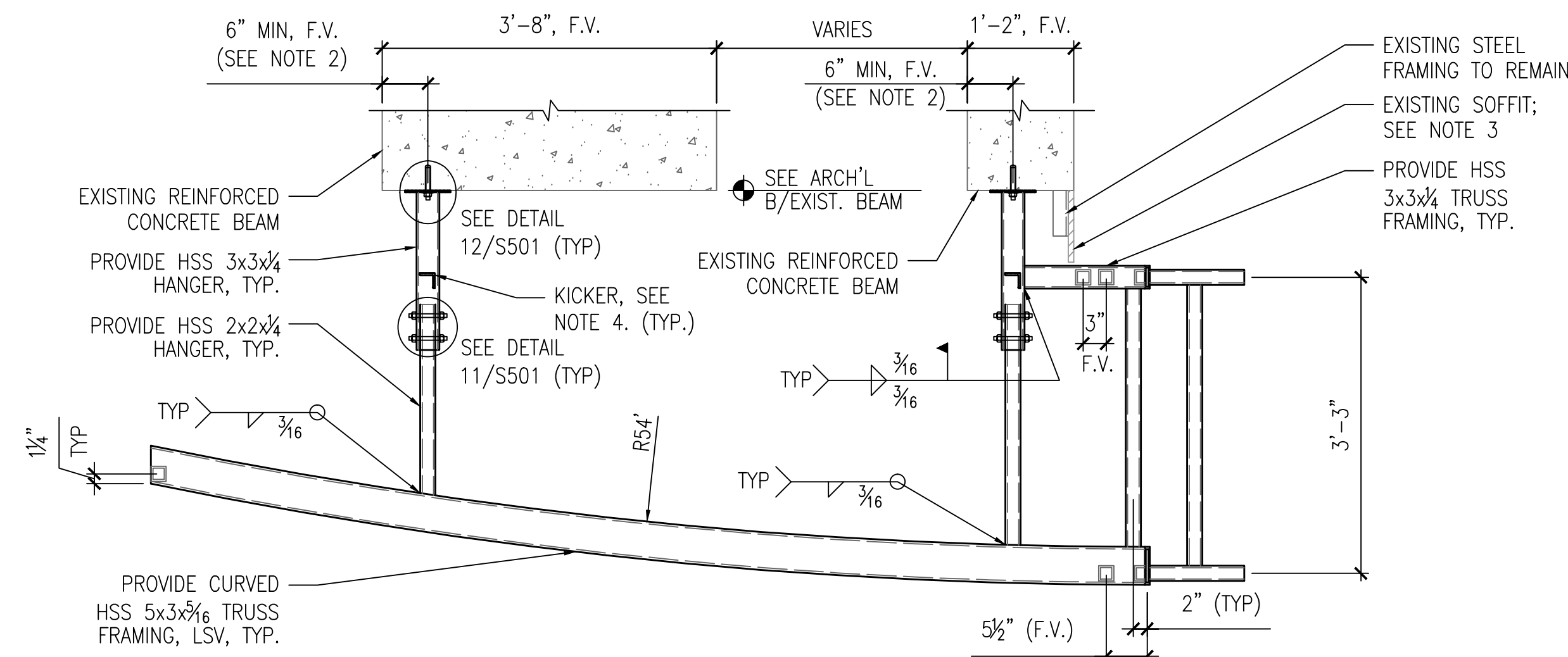
- NOTE:  
 1. ATTACHMENT IS DESIGNED FOR A MAX LOAD OF 600 LBS. NOTIFY ENGINEER IF LOAD EXCEEDS THIS AMOUNT.  
 2. LOCATE ANCHORS TO AVOID EXISTING STEEL REINFORCEMENT IN THE CONCRETE BEAMS.  
 3. X-RAY EXISTING REINFORCED CONCRETE BEAMS PRIOR TO ANY FABRICATION OF STEEL. EXISTING REINFORCEMENT TO BE LOCATED.  
 4. PLATES SHALL BE ORIENTED SUCH THAT LONG DIRECTION OF PLATES IS ALONG LONGITUDINAL AXIS OF BEAMS.

12 S501 TYPICAL HANGER CONNECTION TO BOTTOM OF EXISTING CONCRETE BEAMS SCALE: N.T.S.



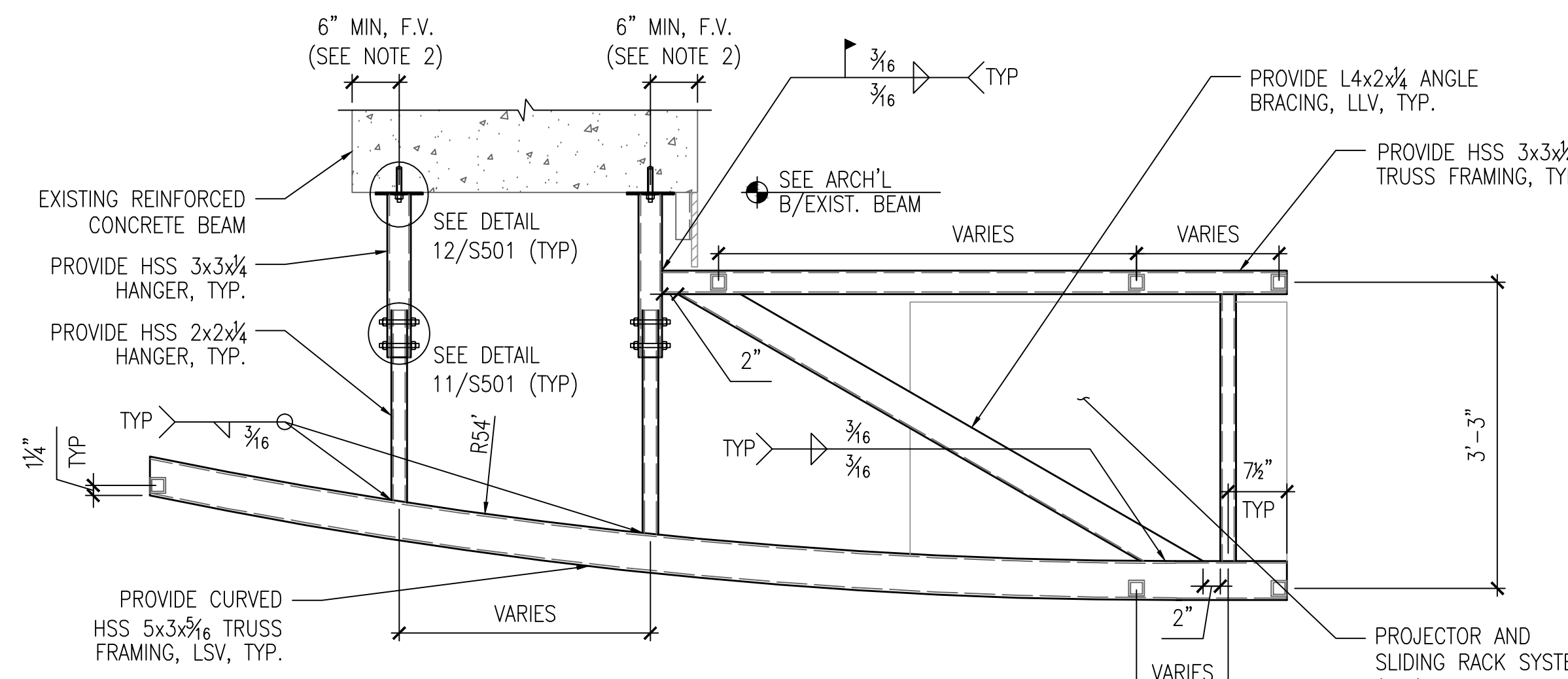
- NOTES:  
 1. MINIMUM OF TWO STEEL FRAMES ARE REQUIRED AT EACH PROJECTOR UNIT LOCATION.  
 2. ALL FRAMING SHALL FIT INSIDE PROJECTOR HOUSING TO BE CONSTRUCTED. VERIFY FINAL DIMENSIONS WITH ARCH'L DRAWINGS AND MECHANICAL CONTRACTOR/EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.  
 3. WEIGHT OF NEW PROJECTOR UNIT IS ASSUMED NOT TO EXCEED 200 LBS. IF THE WEIGHT EXCEEDS THIS, CONTRACTOR TO NOTIFY THE STRUCTURAL ENGINEER.  
 4. ATTACHMENT OF THE PROJECTOR UNIT BY MANUFACTURER.  
 5. CONTRACTOR TO VERIFY THAT MASONRY CELL IS FULLY-GROUTED PRIOR TO INSTALLATION OF ADHESIVE ANCHORS INTO CELL. IF MASONRY CELL IS NOT FULLY-GROUTED, CONTRACTOR SHALL GROUT FILL TWO MASONRY CELLS WHERE ANCHORS ARE TO BE INSTALLED.  
 6. SEE GENERAL NOTES AND ARCH'L DRAWINGS FOR MORE INFORMATION. COORDINATE LOCATION OF PROJECTORS AND RACK SYSTEM PRIOR TO FABRICATION.

14 S501 TYPICAL ANGLE FRAME FOR PROJECTOR AT ESCALATOR SCALE: N.T.S.



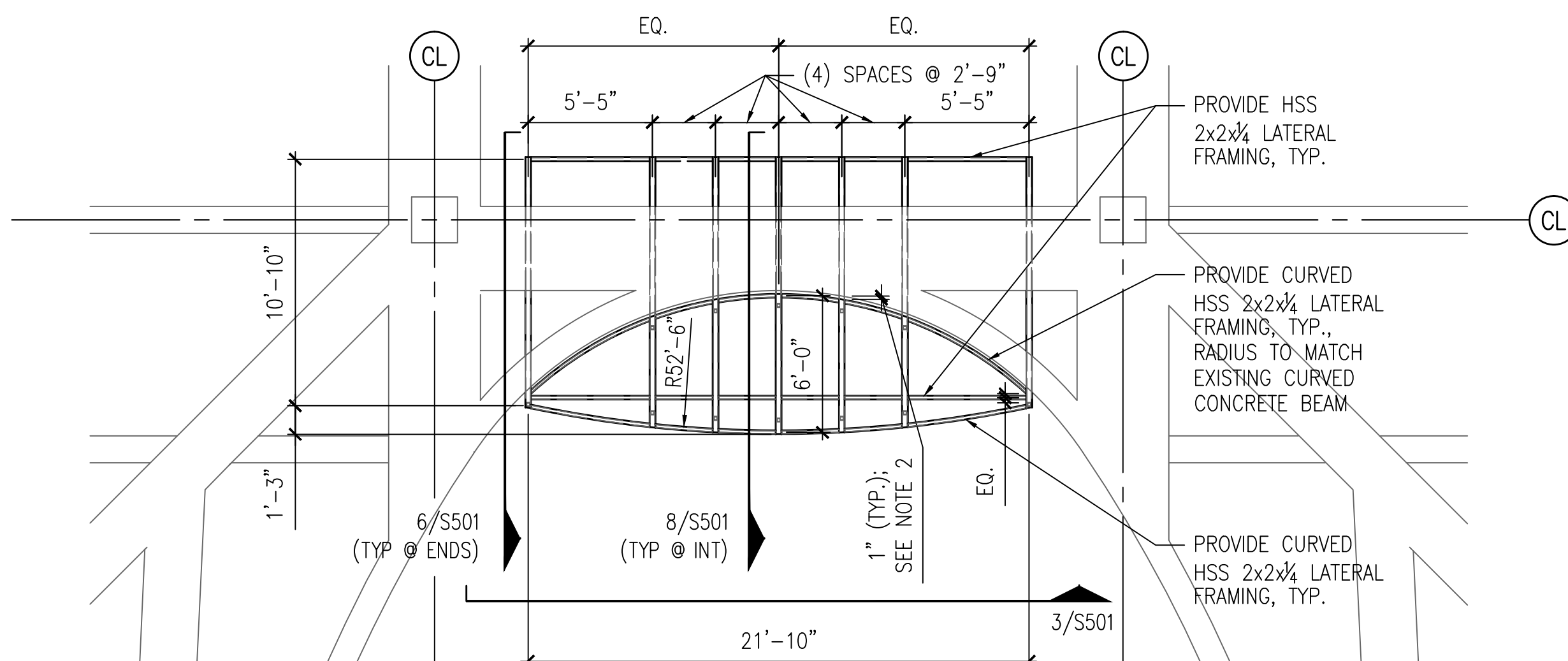
- NOTES:  
 1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.  
 2. FIELD VERIFY AND COORDINATE LOCATION OF HANGER CONNECTIONS PRIOR TO FABRICATION.  
 3. DEMO SOFFIT ONLY AS REQUIRED FOR ERECTION AND CONSTRUCTION OF PROJECTOR HOUSING. SEE ARCH'L DRAWINGS FOR MORE INFORMATION.  
 4. PROVIDE ONE L2x2x1/4 STEEL KICKER AT EACH HSS3x3 HANGER. SEE 16/S501.

6 S501 TYPICAL PROJECTOR HOUSING FRAMING - SIDE VIEW @ ENDS SCALE: 3/4" = 1'-0"



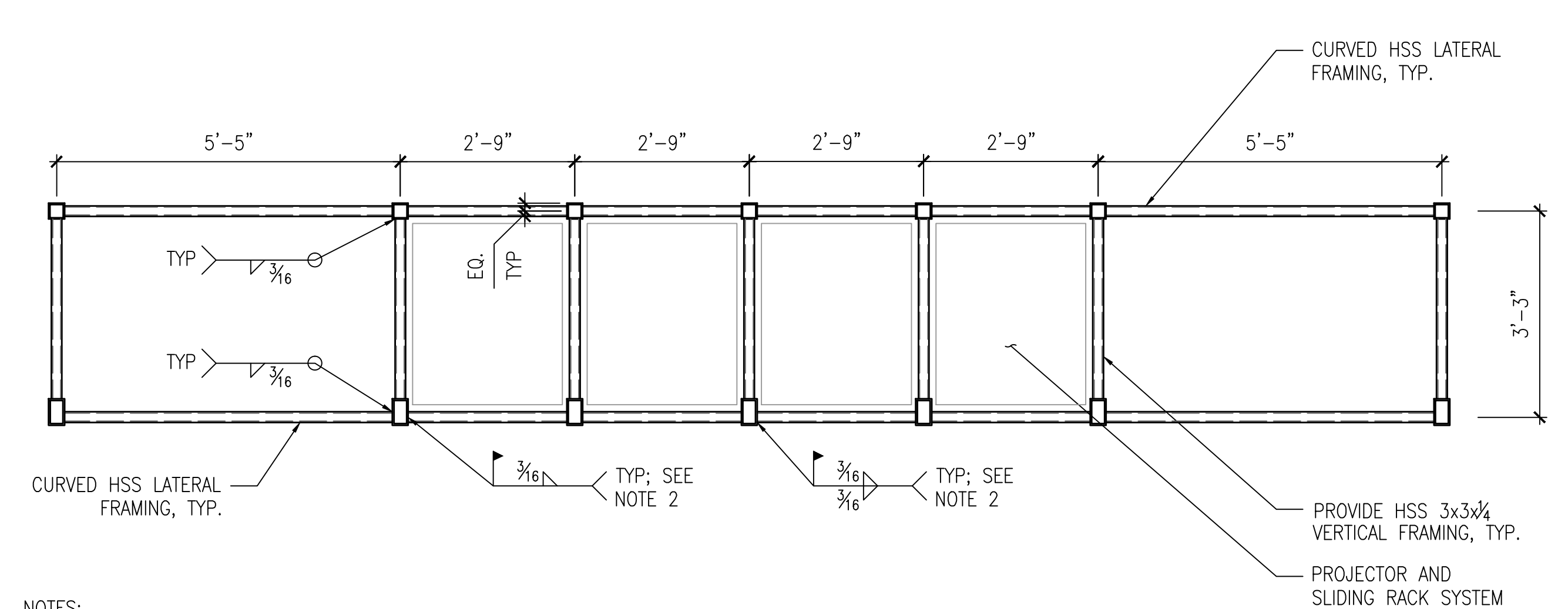
- NOTES:  
 1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.  
 2. FIELD VERIFY AND COORDINATE LOCATION OF HANGER CONNECTIONS PRIOR TO FABRICATION.  
 3. SEE GENERAL NOTES AND ARCH'L DRAWINGS FOR MORE INFORMATION. COORDINATE LOCATION OF PROJECTORS AND RACK SYSTEM PRIOR TO FABRICATION.

8 S501 TYPICAL PROJECTOR HOUSING FRAMING - SIDE VIEW @ INTERIOR SCALE: 3/4" = 1'-0"



- NOTES:  
 1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.  
 2. DIMENSION IS FROM FACE OF EXISTING DRYWALL TO REMAIN AND APPLIES ONLY AT CURVED HSS LATERAL FRAMING IN AREA. COORDINATE THIS DIMENSION WITH ARCHITECT/OWNER PRIOR TO FABRICATION.

1 S501 TYPICAL PROJECTOR HOUSING FRAMING - TOP SCALE: 3/8" = 1'-0"



- NOTES:  
 1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.  
 2. PLACE ALL LATERAL FRAMING ONLY AFTER ALL PLANE TRUSS FRAMING AND ANGLE BRACING HAS BEEN ERECTED.  
 3. SEE GENERAL NOTES AND ARCH'L DRAWINGS FOR MORE INFORMATION. COORDINATE LOCATION OF PROJECTORS AND RACK SYSTEM PRIOR TO FABRICATION.

3 S501 TYPICAL PROJECTOR HOUSING FRAMING - FRONT SCALE: 1/2" = 1'-0"



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

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

Engineer:



Architect:



605 E. Robinson Street, Suite 750, Orlando, Florida 32801  
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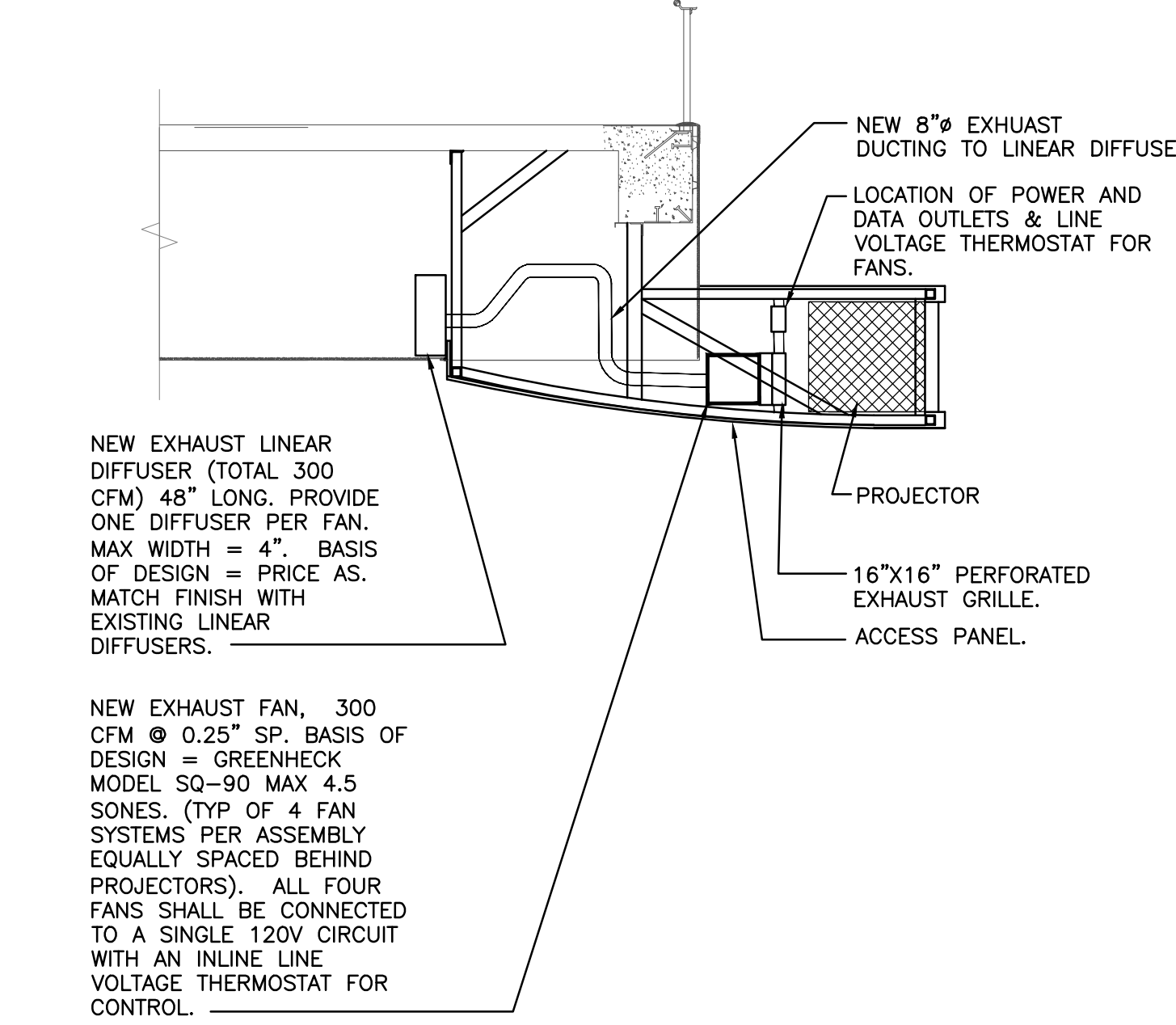
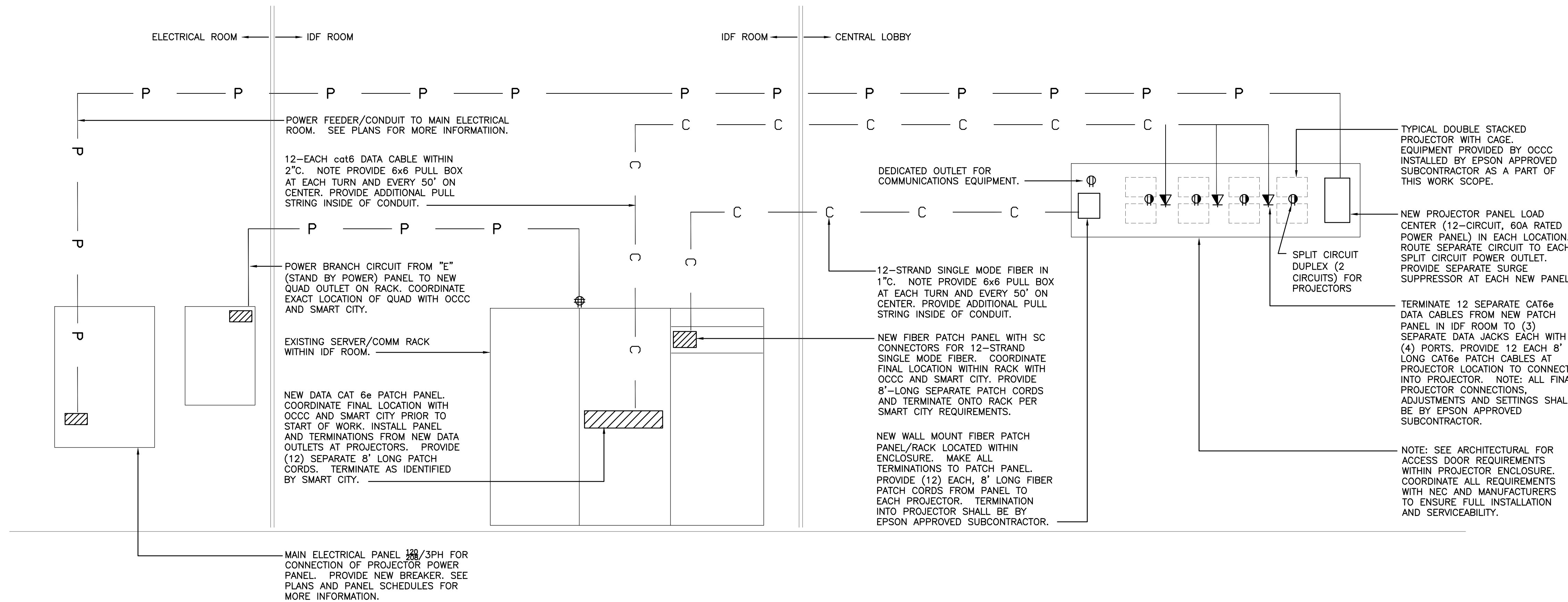
PROJECTOR  
 INSTALLATION DETAILS

Sheet Title

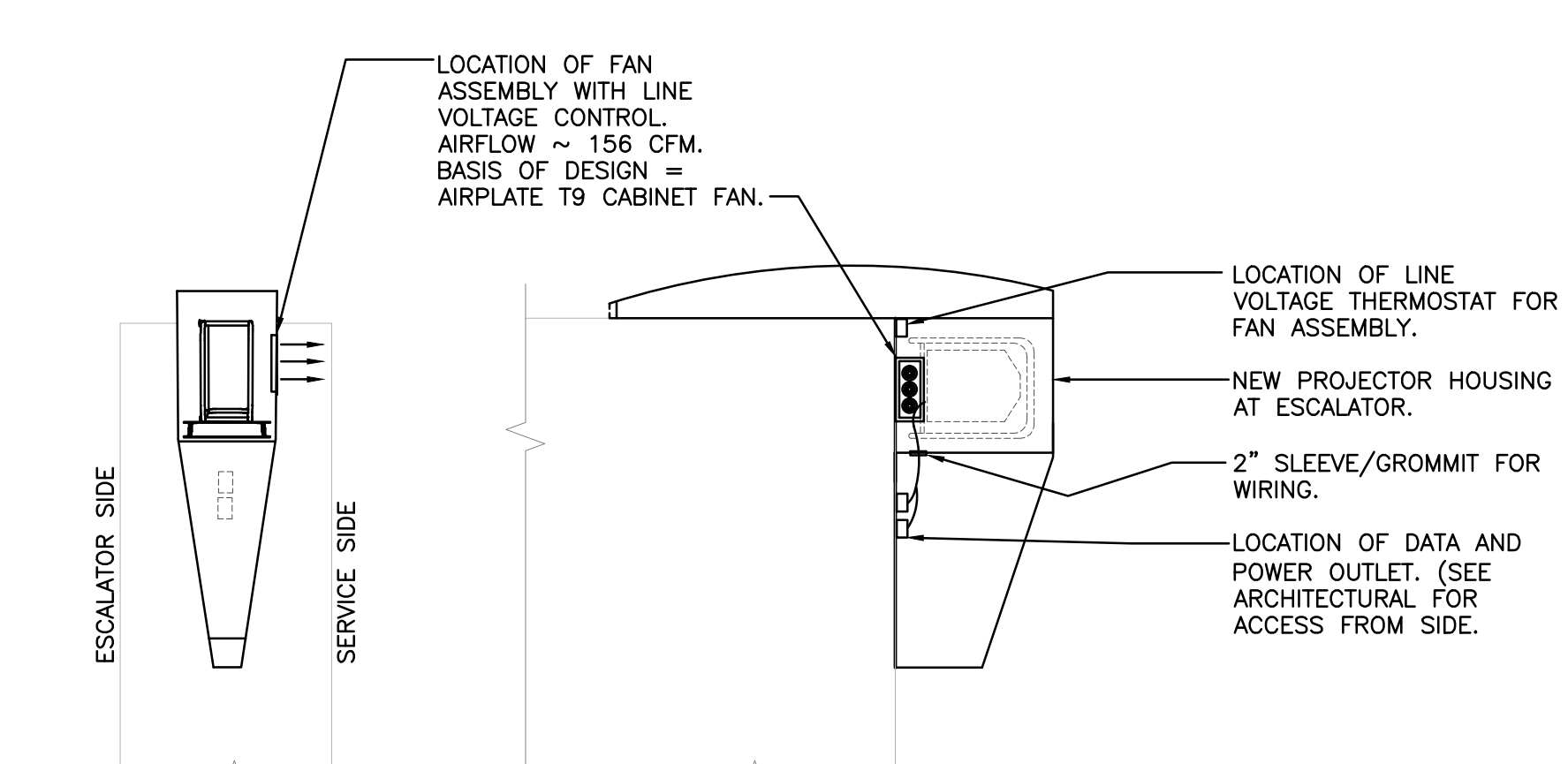
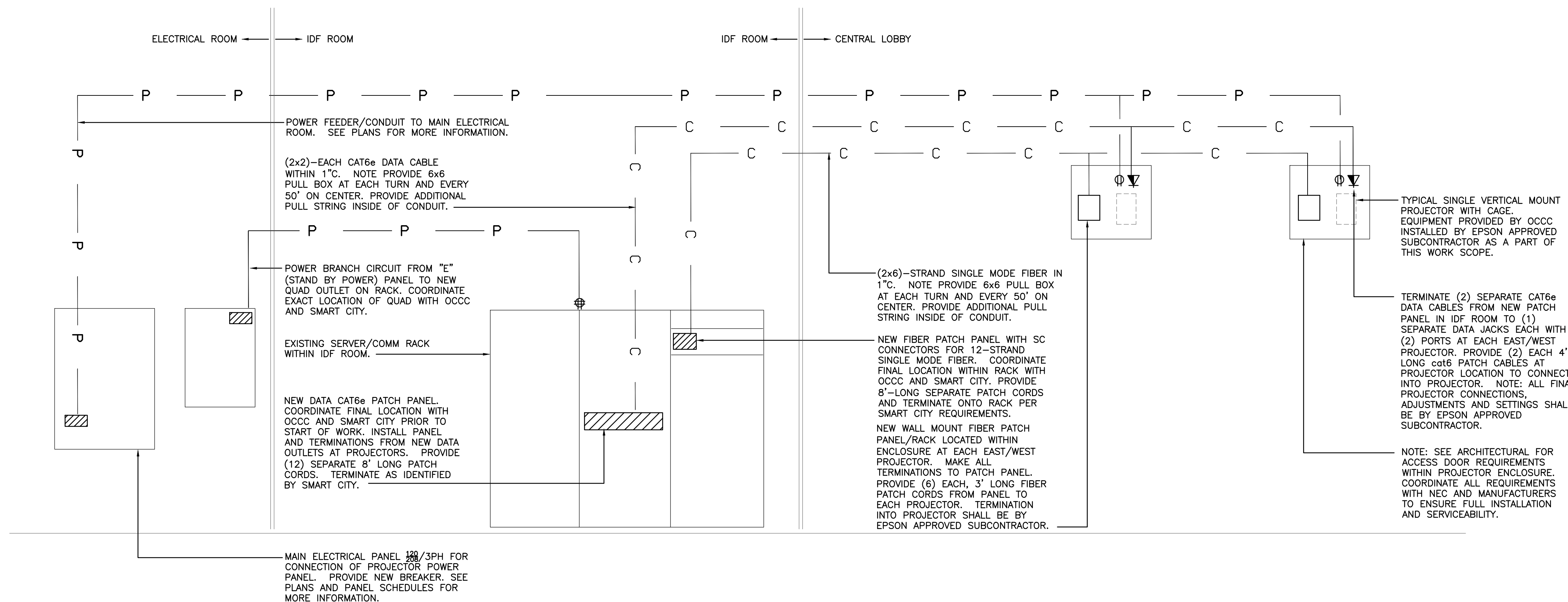
Job No. 14-564  
 Date January 6, 2014  
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 Checked  
 Scale

E1.002

Sheet No.



TYPICAL DETAIL OF MEZZANINE PROJECTOR INSTALLATION



TYPICAL DETAIL OF ESCALATOR PROJECTOR INSTALLATION

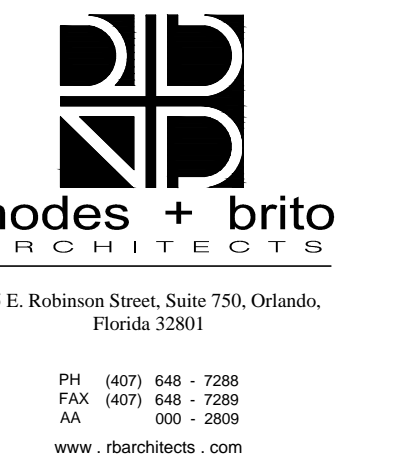
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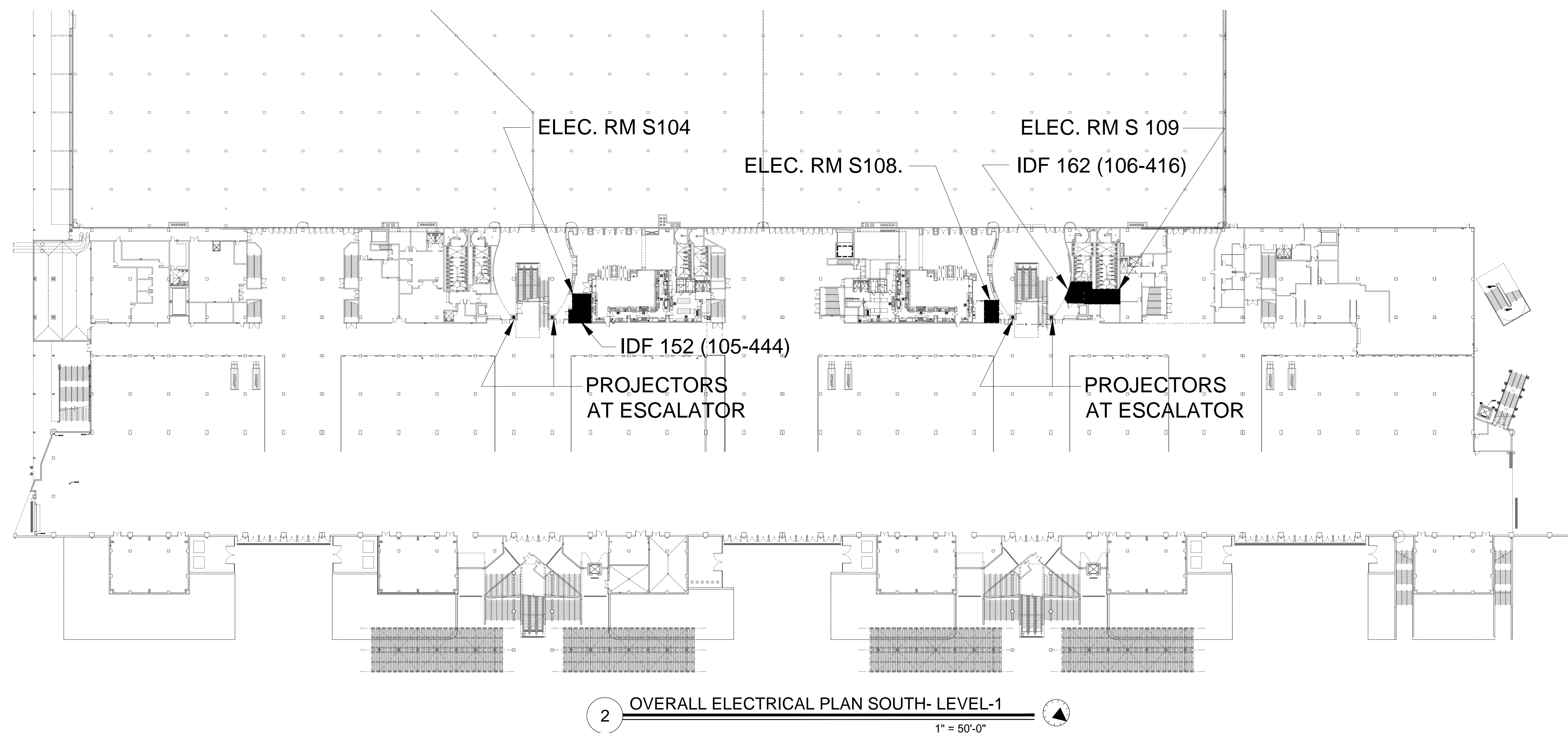
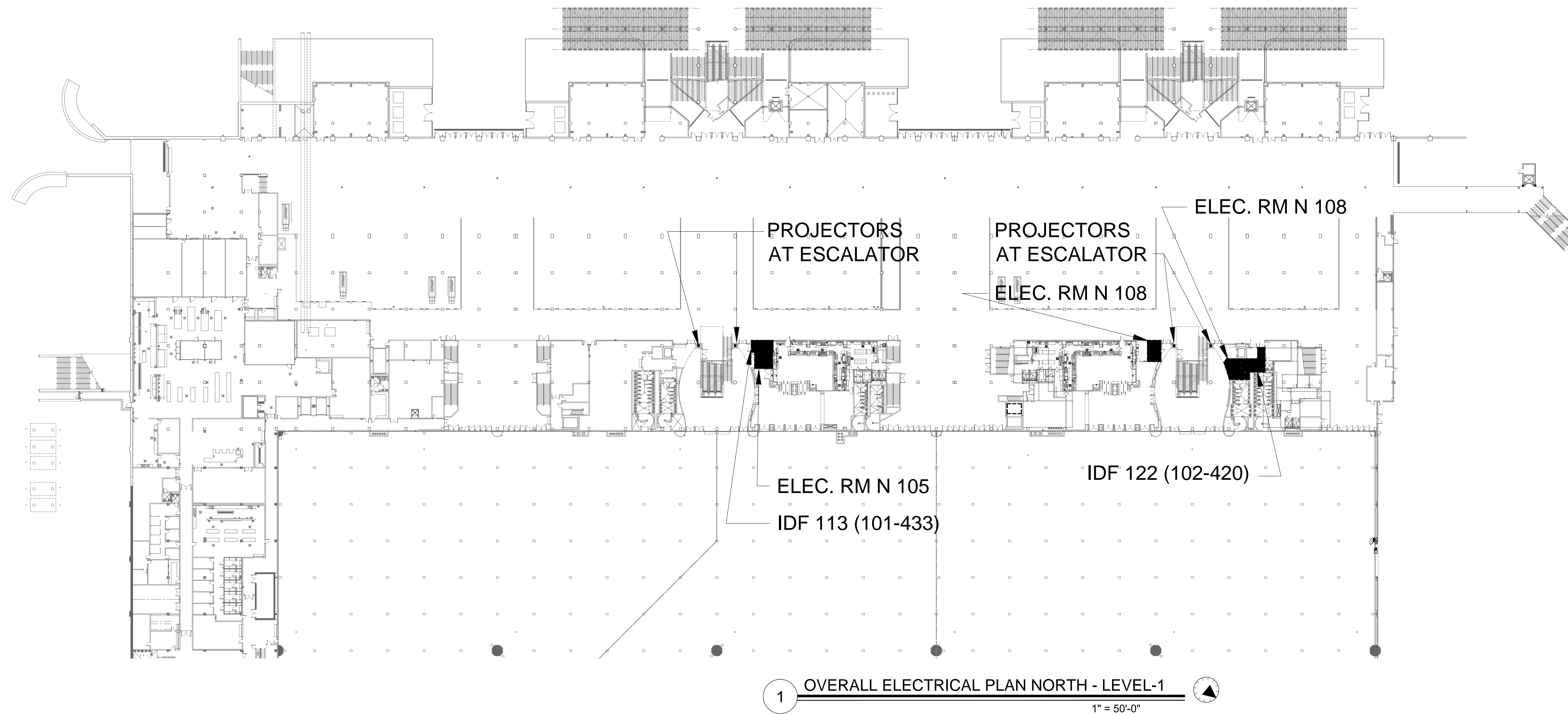
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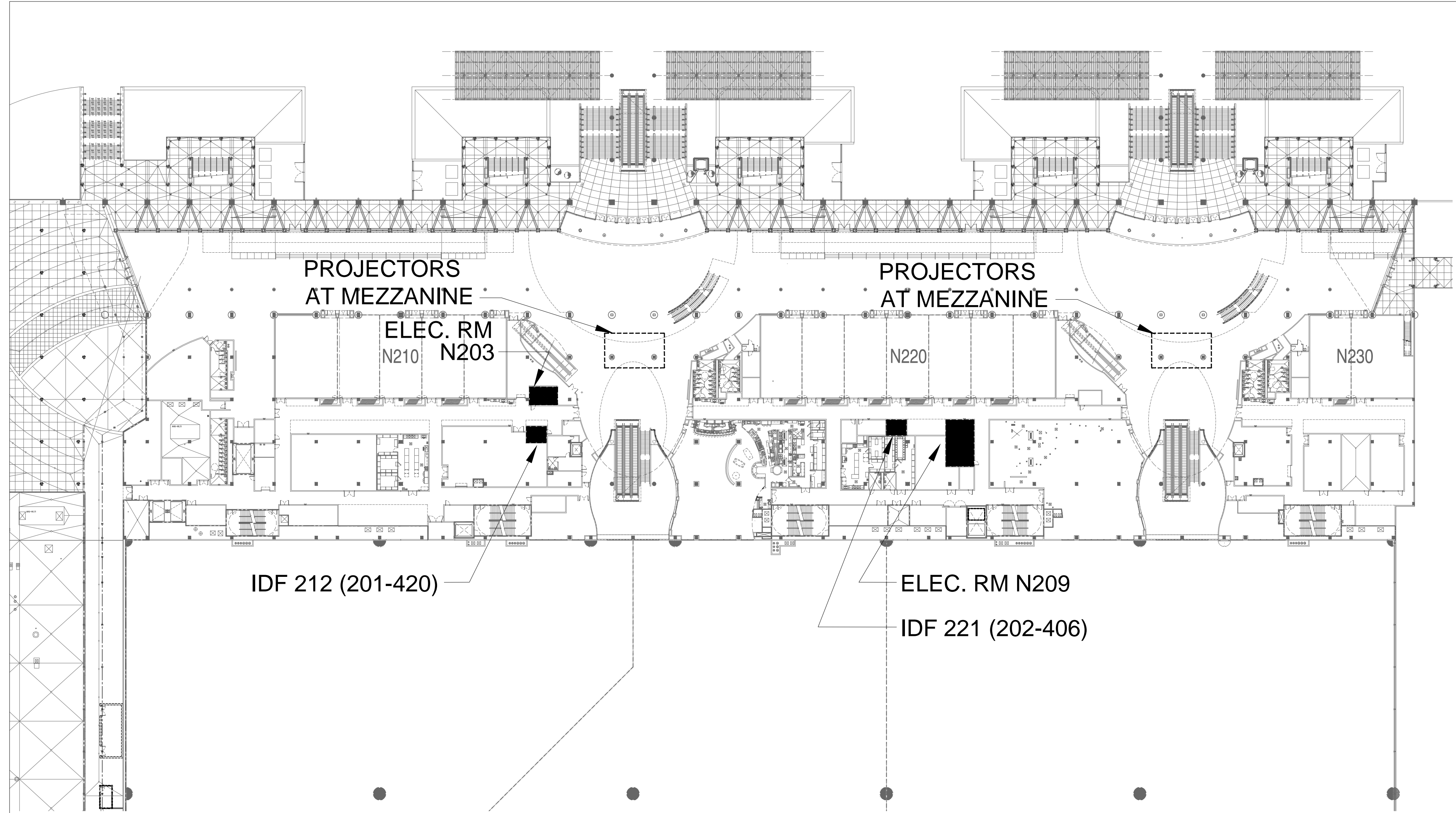
OVERALL ELECTRICAL FLOOR PLANS  
 LEVEL-1

Sheet Title  
 Job No. 14-564  
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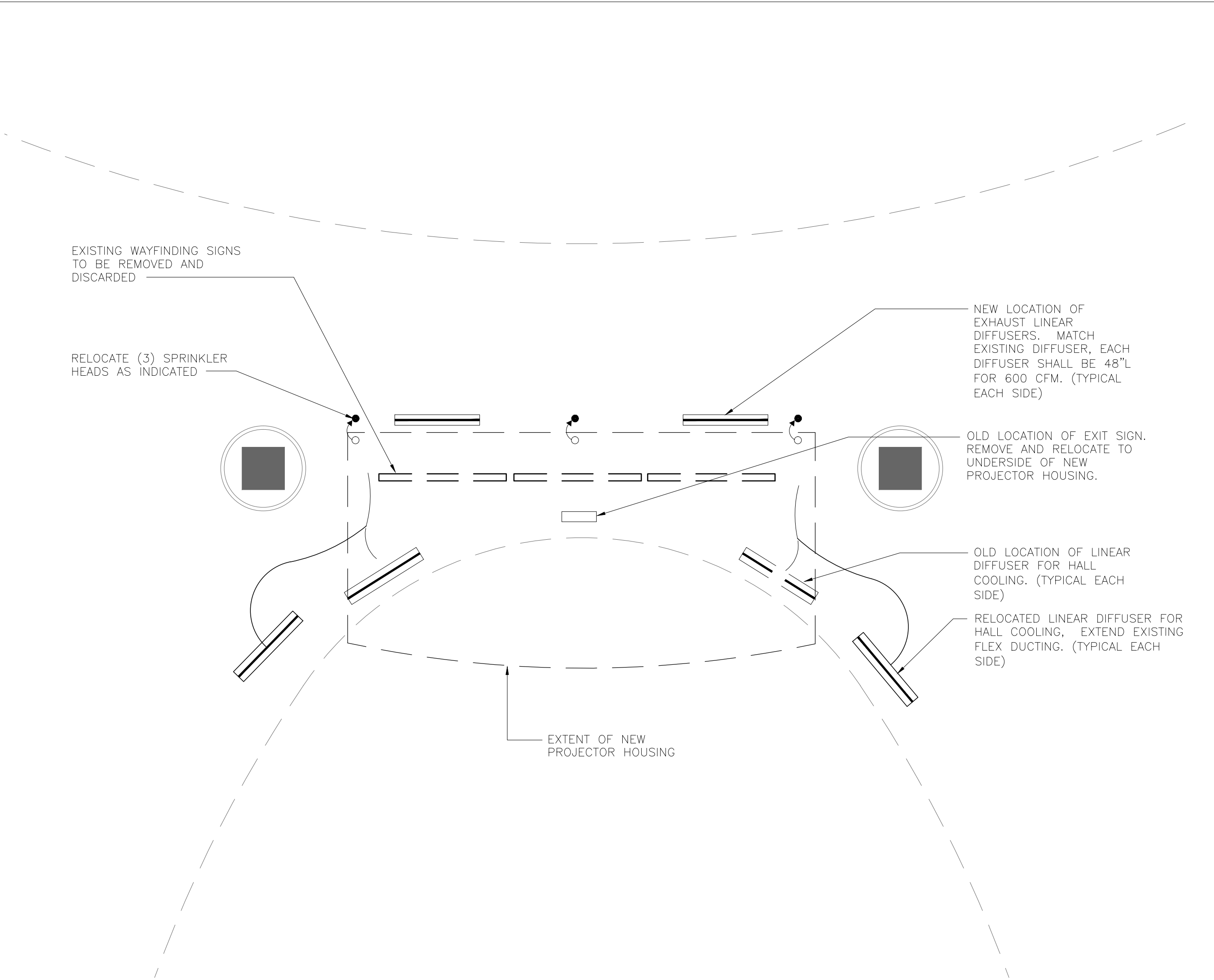
E2.101

Sheet No.

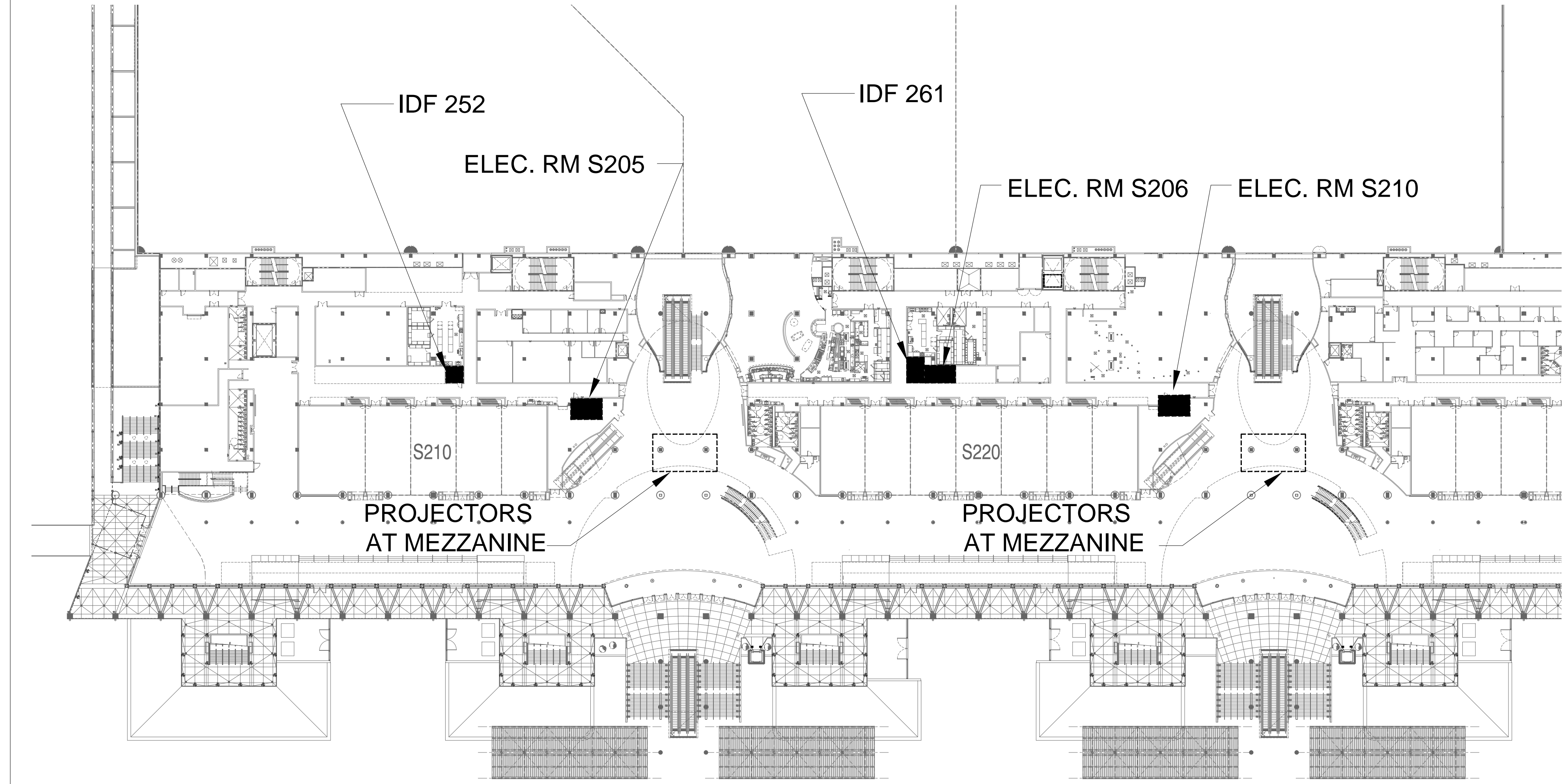




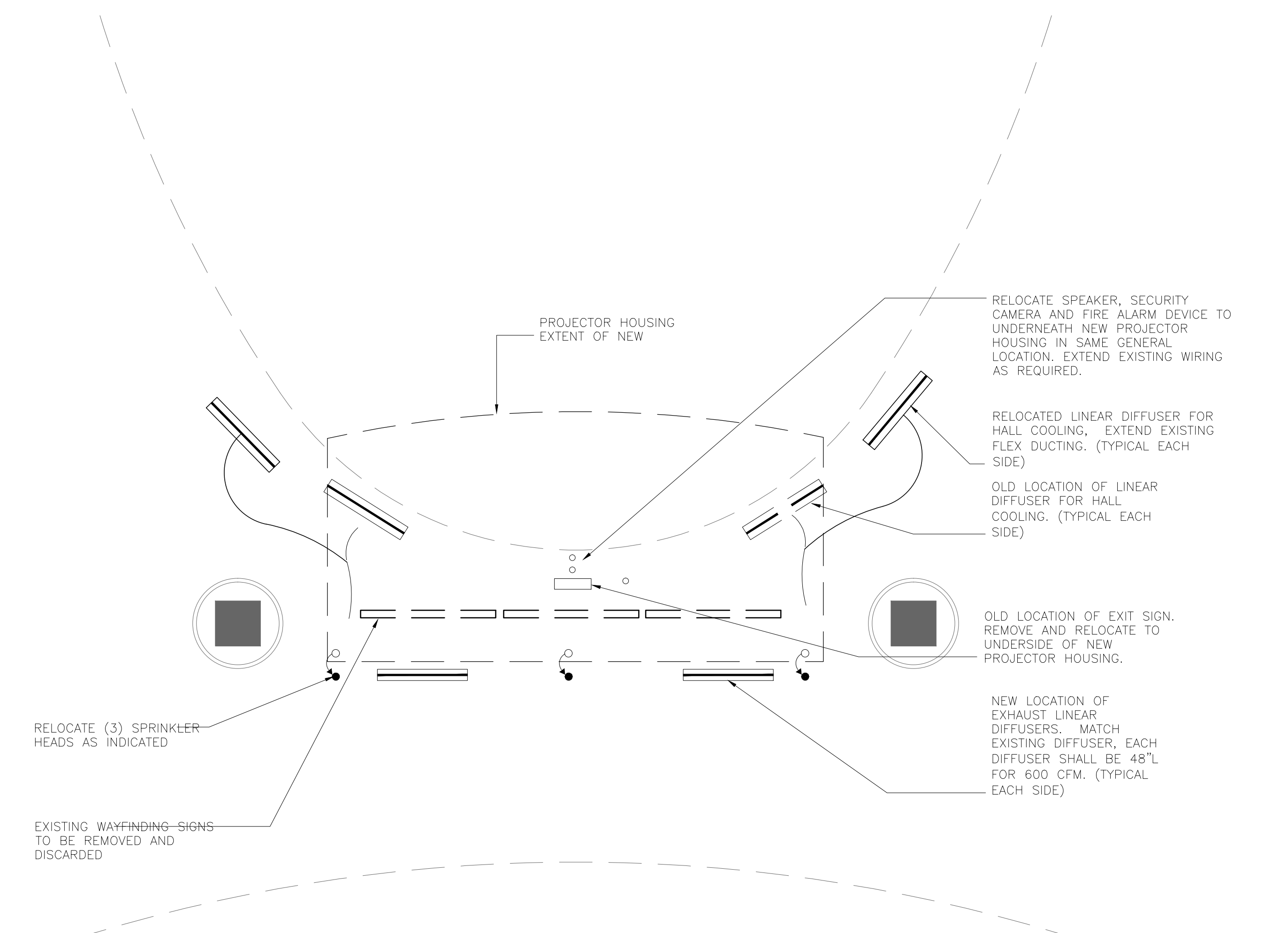
1 OVERALL ELECTRICAL PLAN SOUTH - LEVEL-2  
1" = 50'-0"



3 DEMOLITION PLAN AT MEZZANINE PROJECTORS  
1/4" = 1'-0"



2 OVERALL ELECTRICAL PLAN SOUTH- LEVEL-2  
1" = 50'-0"



3 DEMOLITION PLAN AT MEZZANINE PROJECTORS  
1/4" = 1'-0"

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Orange County Convention Center  
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ENLARGED ELECTRICAL PLANS  
 LEVEL-1

Sheet Title

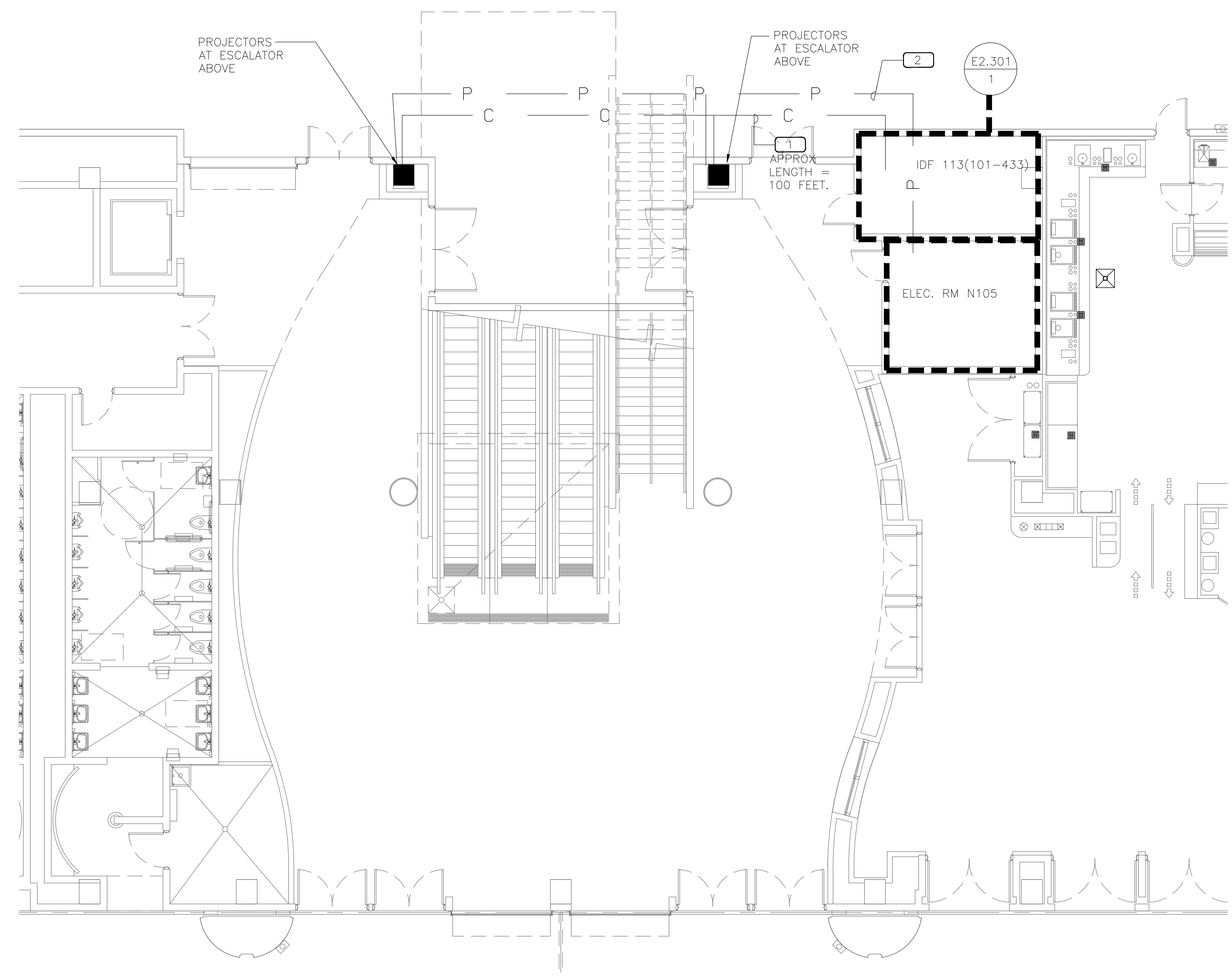
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E2.201

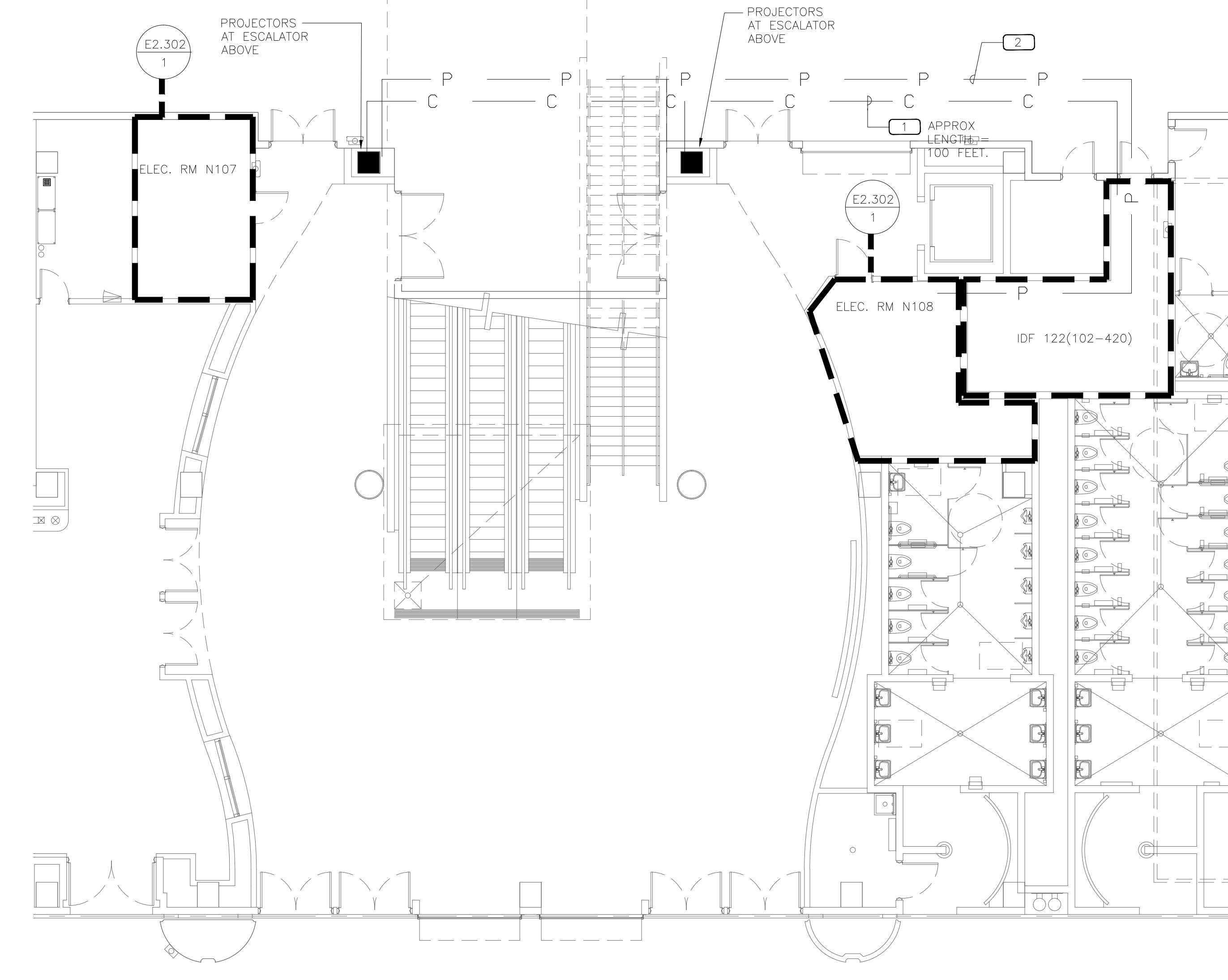
Sheet No.

PLAN NOTES

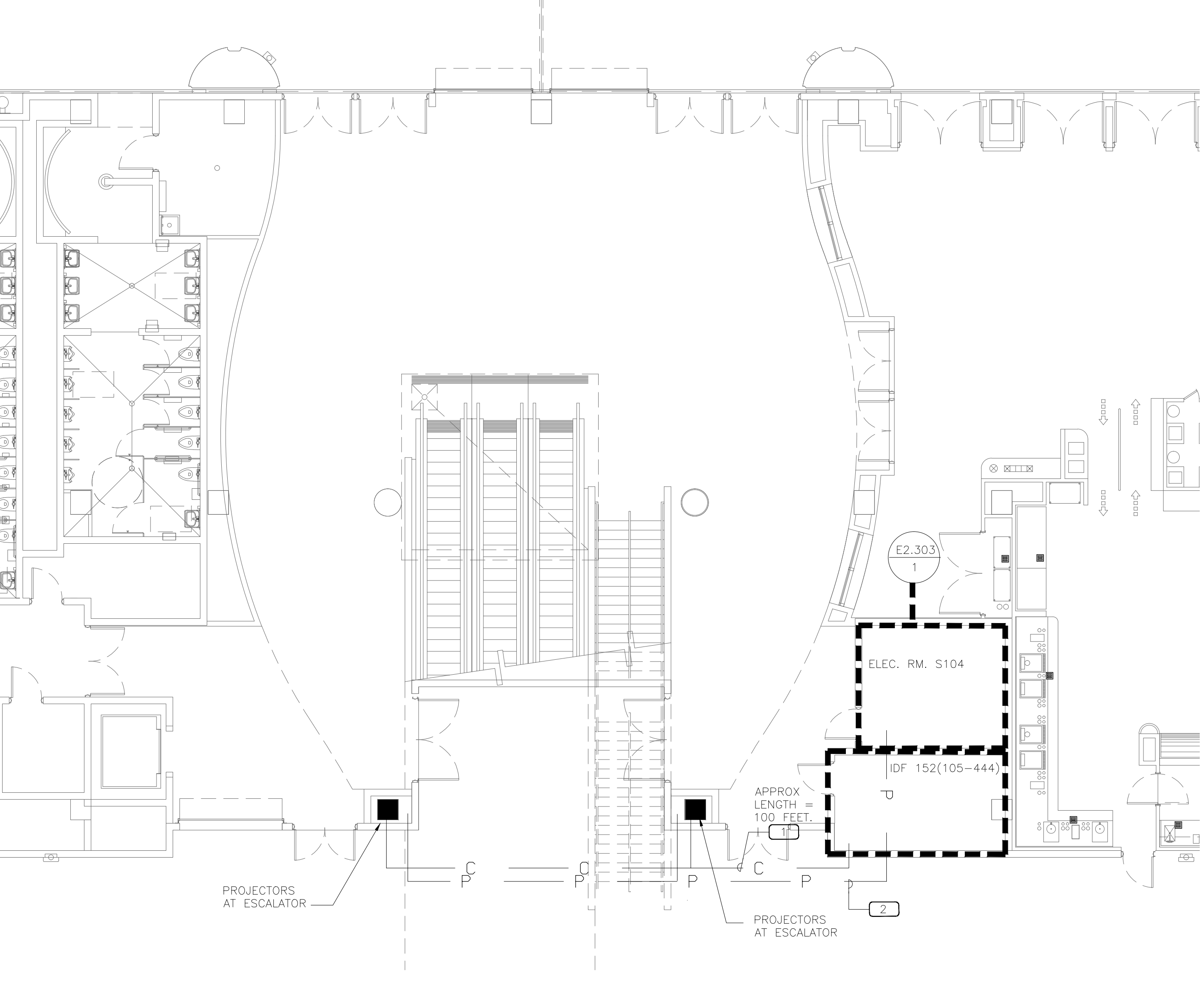
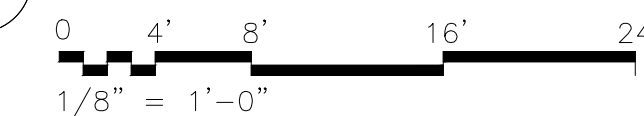
- TOTAL OF (2) COMMUNICATION CONDUITS, (1) 1" COMMUNICATIONS CONDUIT WITH 12-STRAND SINGLE MODE FIBER FOR BOTH EAST AND WEST ESCALATOR PROJECTOR (2-TOTAL CABLES FROM IDF ROOM), 1" COMMUNICATION CONDUIT WITH 2 TOTAL cat-6e FOR DATA FOR BOTH EAST AND WEST ESCALATOR PROJECTORS (4 TOTAL cat-6e CABLES FROM IDF ROOM). SEE DETAIL ON E1.002 FOR TERMINATION AND NOTES.
- 1" POWER CONDUIT WITH (2) DEDICATED 120-1PHASE CIRCUITS. ROUTE ONE CIRCUIT TO EACH PROJECTOR AND TERMINATE ONTO A NEW QUAD OUTLET PER DETAILS ON E1.002.
- 3/4" POWER CONDUIT WITH (1) DEDICATED CIRCUIT FOR IDF ROOM QUAD.



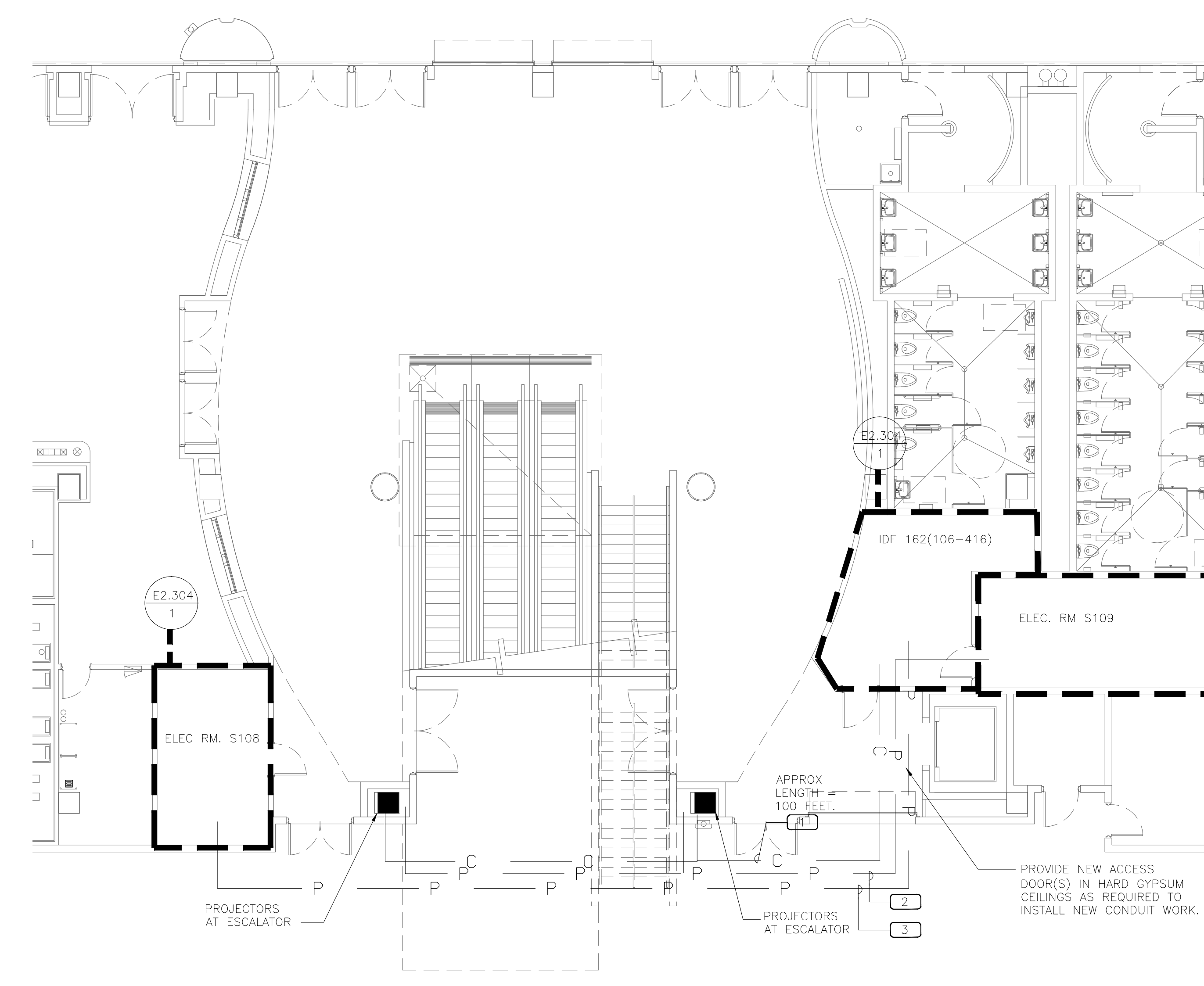
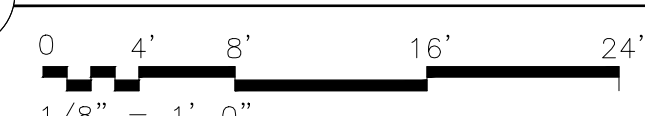
1 OVERALL ELECTRICAL PLAN NORTH - LEVEL-1 (WEST)



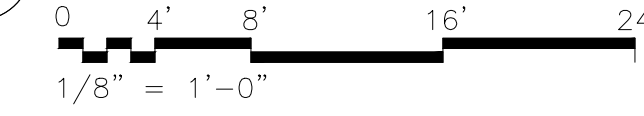
2 OVERALL ELECTRICAL PLAN NORTH - LEVEL-1 (EAST)



3 OVERALL ELECTRICAL PLAN SOUTH - LEVEL-1 (WEST)



4 OVERALL ELECTRICAL PLAN SOUTH - LEVEL-1 (EAST)



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

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Engineer:



Architect:



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Engineering + Construction  
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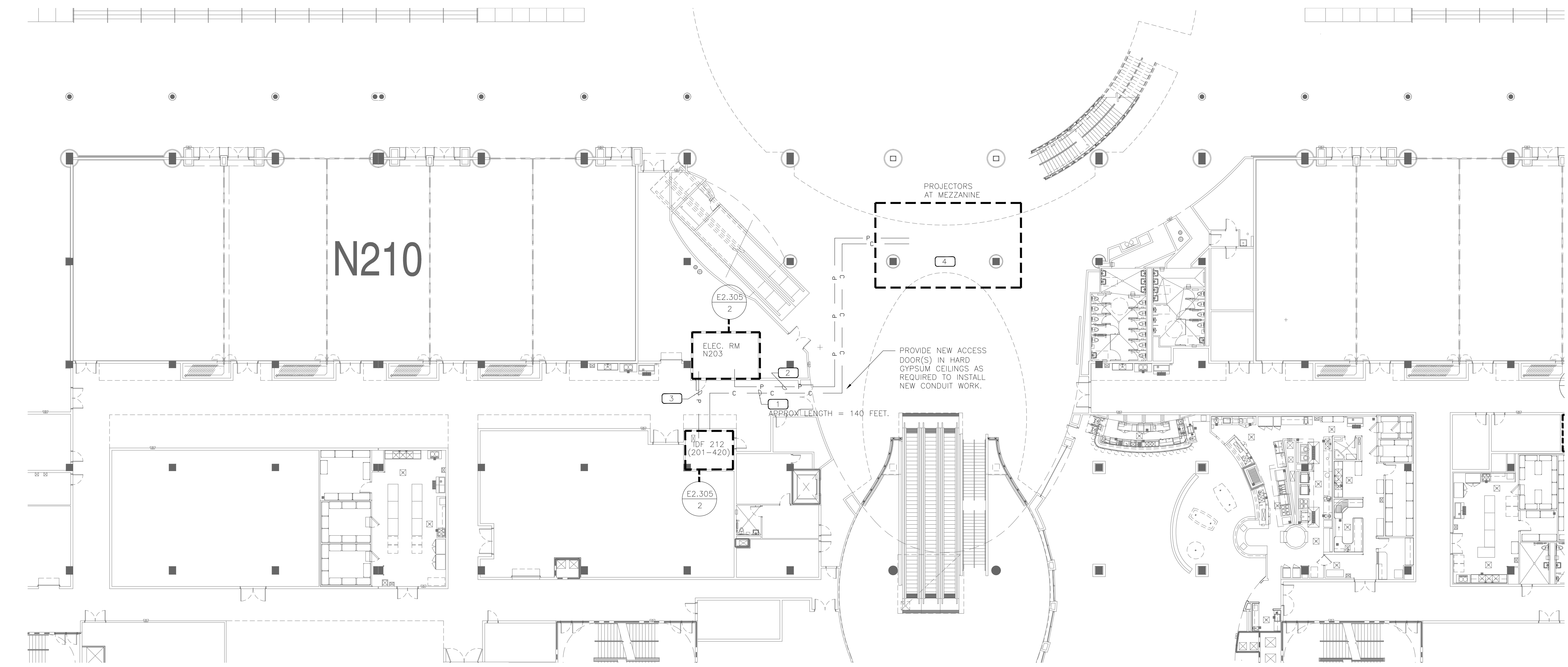
ENLARGED ELECTRICAL PLANS  
 LEVEL-2

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

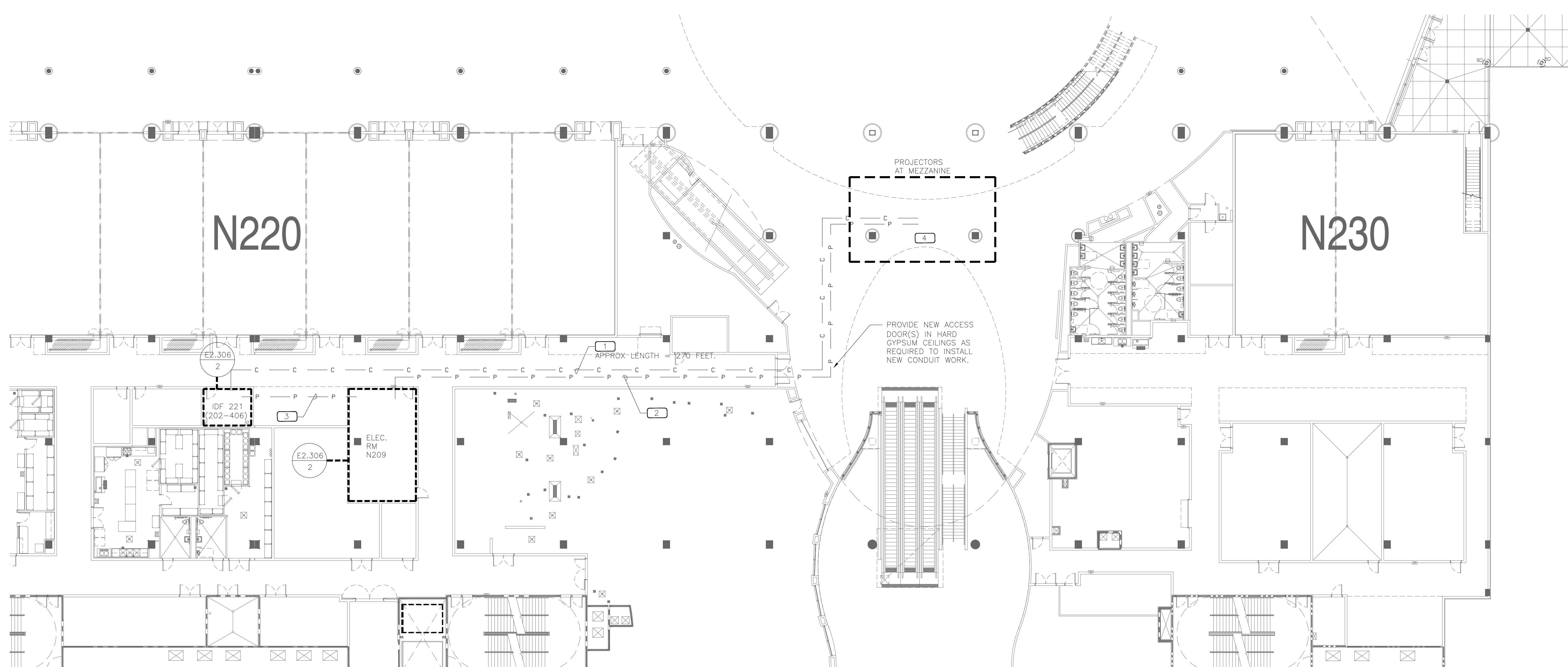
E2.202

Sheet No.

- PLAN NOTES**
- 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.
  - 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.
  - CONTRACTOR SHALL RELOCATE THE FOLLOWING ITEMS TO ACCOMMODATE SPACE FOR NEW MEZZANINE MOUNTED PROJECTOR HOUSINGS:
    - (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 DEVICES, DUCTWORK, ETC. AND PROPOSED LOCATION OF NEW RELOCATED DEVICES IN CONJUNCTION WITH THE NEW PROJECTOR HOUSING LIMITS.



**1 ENLARGED ELECTRICAL PLAN NORTH - LEVEL-2 (WEST)**  
 0 8' 16' 32' 48'  
 1/16" = 1'-0"



**2 ENLARGED ELECTRICAL PLAN NORTH - LEVEL-2 (EAST)**  
 0 8' 16' 32' 48'  
 1/16" = 1'-0"

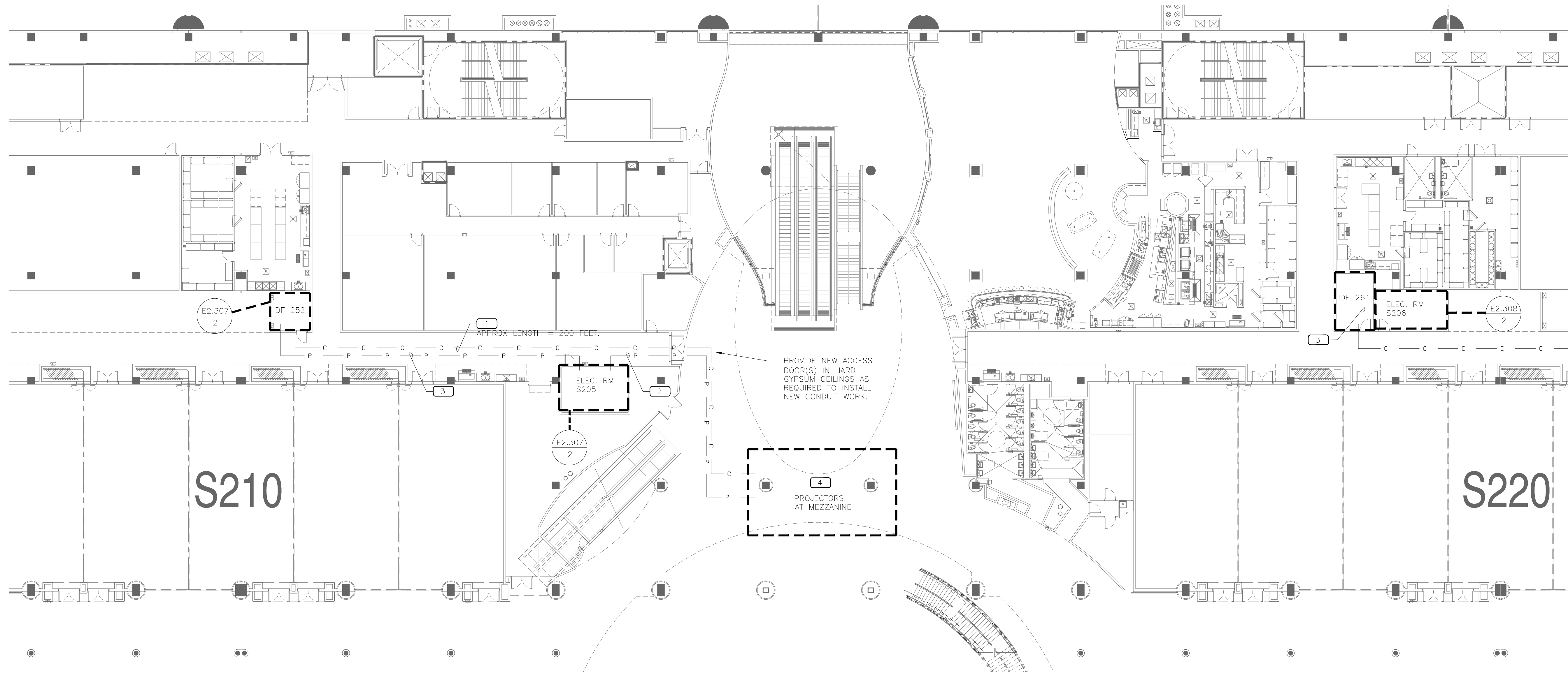
No.	By	Date	Revision
3			
2			
1			
0	mks	1/6/15	Permitting
No.	By	Date	Issued for

ENLARGED ELECTRICAL PLANS  
 LEVEL-2

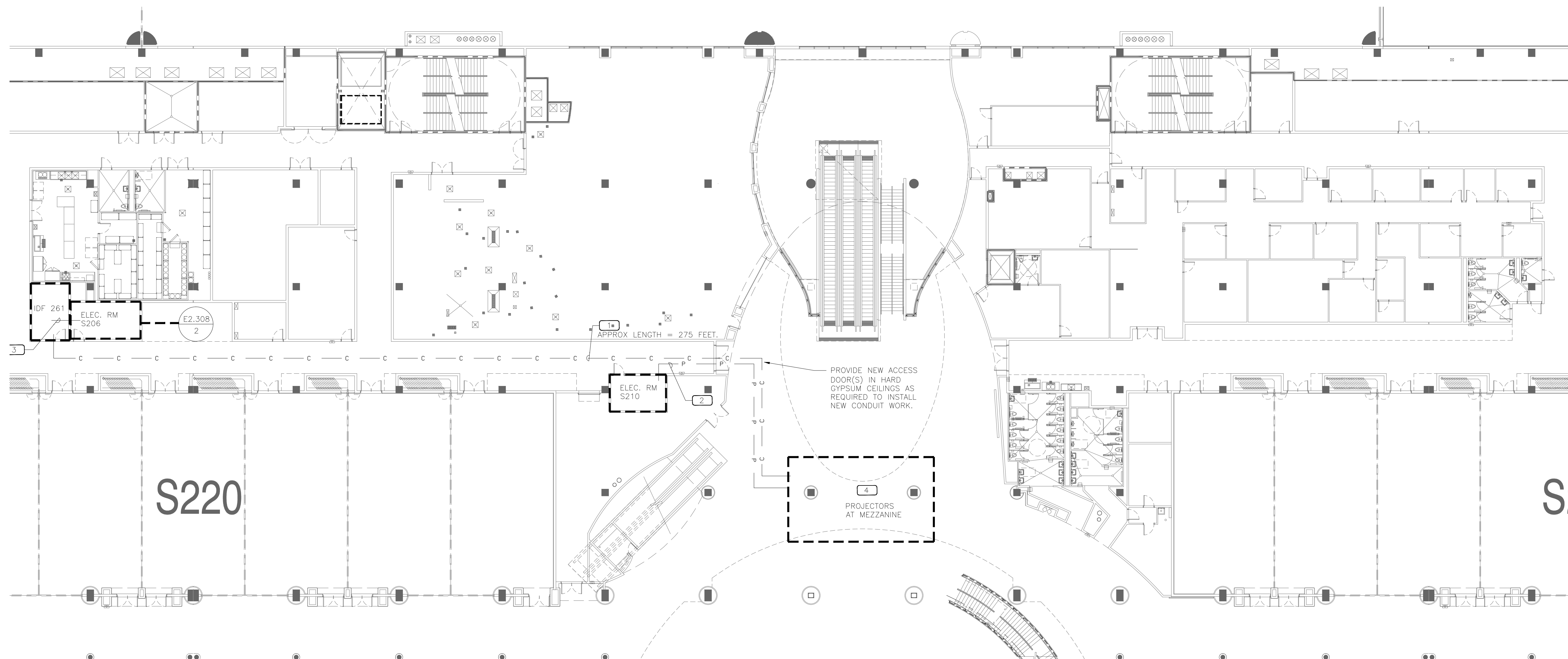
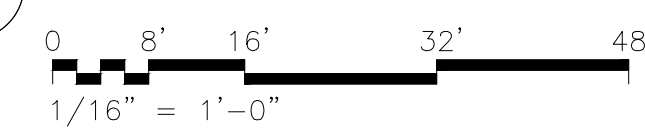
PLAN NOTES

- 1 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 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

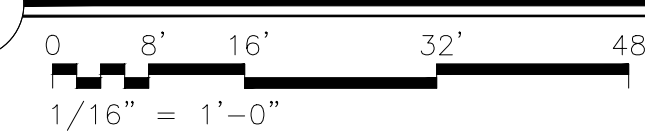
CONTRACTOR SHALL ENGAGE NECESSARY SUBCONTRACTORS AND CREATE A FULL COORDINATED SHOP DRAWING INDICATING LOCATION OF EXISTING DEVICES, DUCTWORK, ETC. AND PROPOSED LOCATION OF NEW RELOCATED DEVICES IN CONJUNCTION WITH THE NEW PROJECTOR HOUSING LIMITS.



1 ENLARGED ELECTRICAL PLAN SOUTH - LEVEL-2 (WEST)



2 ENLARGED ELECTRICAL PLAN SOUTH - LEVEL-2 (EAST)



















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

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 Orange County Convention Center  
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 Winter Park, FL 32789  
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06 - Jan - 2015  
 Mitesh K. Smart, PE S2772 (FL)

No. By Date Revision

3			
2			
1			
0	mks	1/6/15	Permitting
No.	By	Date	Issued for

ENLARGED ELECTRICAL & IDF ROOM PLANS

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

E2.308

Sheet No.

PANEL 2DPF																				
UPDATED: 12/22/2014 5:24 pm																				
ISSUED FOR: APPROVAL																				
LOCATION: ELEC RM					MAIN: 400A MCB					CONN. LOAD: 36 KVA										
VOLTAGE: 120Y/208V					SYSTEM: 3ø, 4W					FEED: TOP										
TRIM: SURFACE					BUS RATING 400A					GROUND BUS: YES										
CKT	LOAD SERVED	COND	PHASE	NEUT	END	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	END	LOAD SERVED	CKT		
1	DIMMER PANEL (PEAK LOAD = 24 KVA)					350/3	L	8000					30/3					DIMMER PANEL DWAE	2	
3	--					-/3	L	8000				-/3						--	4	
5	NEW PANEL PROJECTOR-NW					2" #4 #4 #8 50/3	N	4000				-/3						--	6	
7	--					-/3	N	4000				-/3						--	8	
9	--					-/3	N	4000				-/3						--	10	
11	--					-/3	N	4000				-/3						TVSS	12	

INTERRUPT RATING: 10,000 AIC     13202 | 13202 | 13202     FROM: --

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

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.

PANEL 2DELB																				
UPDATED: 12/22/2014 5:36 pm																				
ISSUED FOR: APPROVAL																				
LOCATION: ELEC RM N105					MAIN: 150A MCB					CONN. LOAD: 20.9 KVA										
VOLTAGE: 120Y/208V					SYSTEM: 3ø, 4W					FEED: TOP										
TRIM: SURFACE					BUS RATING 200A					GROUND BUS: YES COPPER										
CKT	LOAD SERVED	COND	PHASE	NEUT	END	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	END	LOAD SERVED	CKT		
1	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	2	
3	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	4	
5	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	6	
7	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	8	
9	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	10	
11	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	12	
13	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	14	
15	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	16	
17	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	18	
19	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	20	
21	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	22	
23	RECEPTACLE					20/1	R	720				20/1						RECEPTACLE	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				20/1	3/4"	#12	#12	#12		QUAD OUTLET - IDF ROOM 212	30	

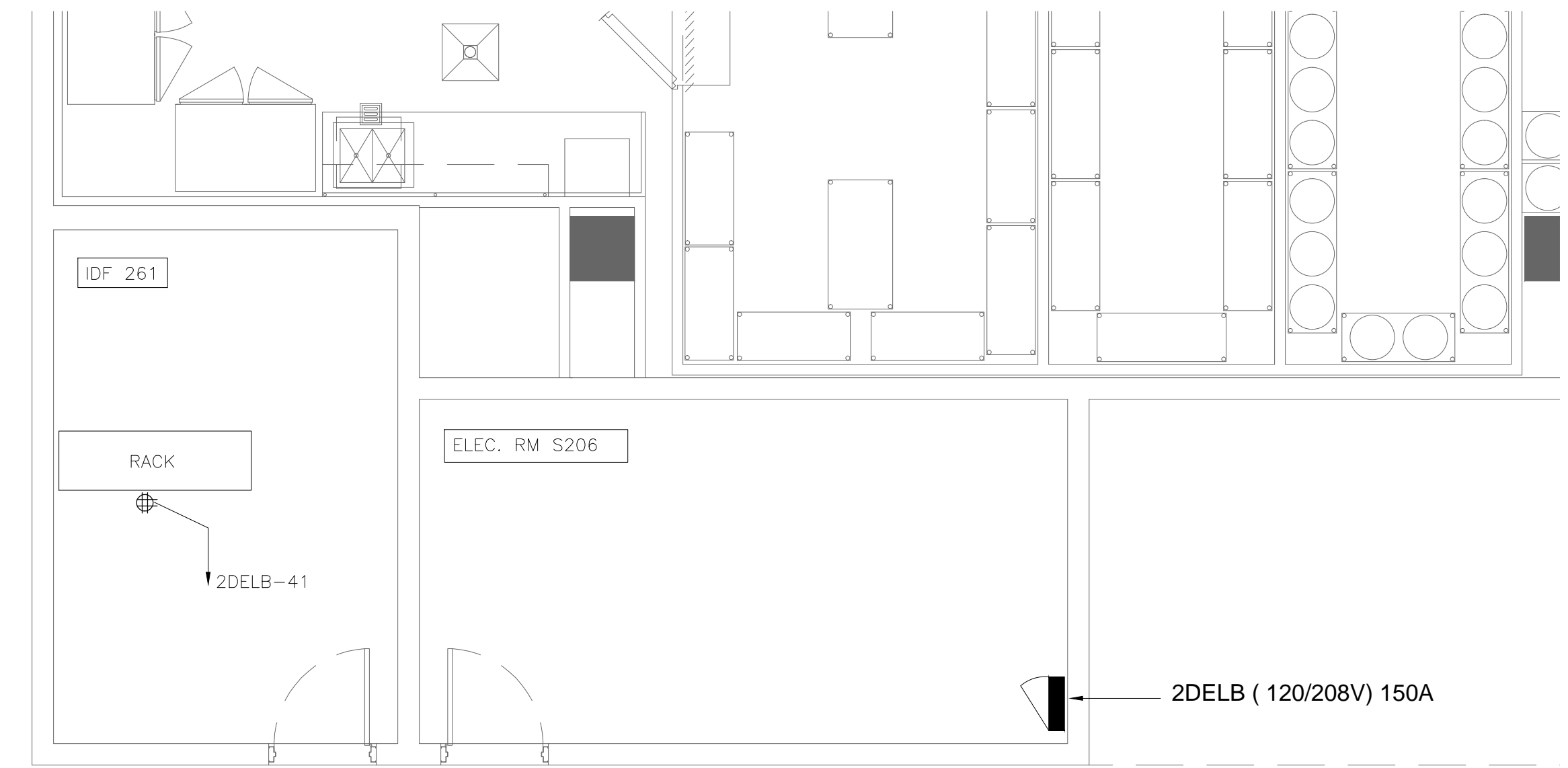
6480 | 6480 | 7980

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	REMAINING NON-CONTINUOUS LOADS	DEMAND LOADS	TOTAL CONNECTED LOAD	MIN. FEEDER/PANEL CAP.	OVERALL DEMAND FACTOR
LIGHTING	0	1.25	0	NON-SEASONAL MOTORS	0	1.0	0	0	0	1.0	0	0	0
RECEPTS TO 10 KVA	10900	1.0	10900	LARGEST MOTOR	0	0.25	0	0	0	1.0	0	0	0
RECEPTS REMAINING	10940	0.5	5470	WATER HEATING	0	1.0	0	0	0	1.0	0	0	0
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	1.0	0	0	0	1.0	0	0	0
AIR CONDITIONING	0	1.0	0										

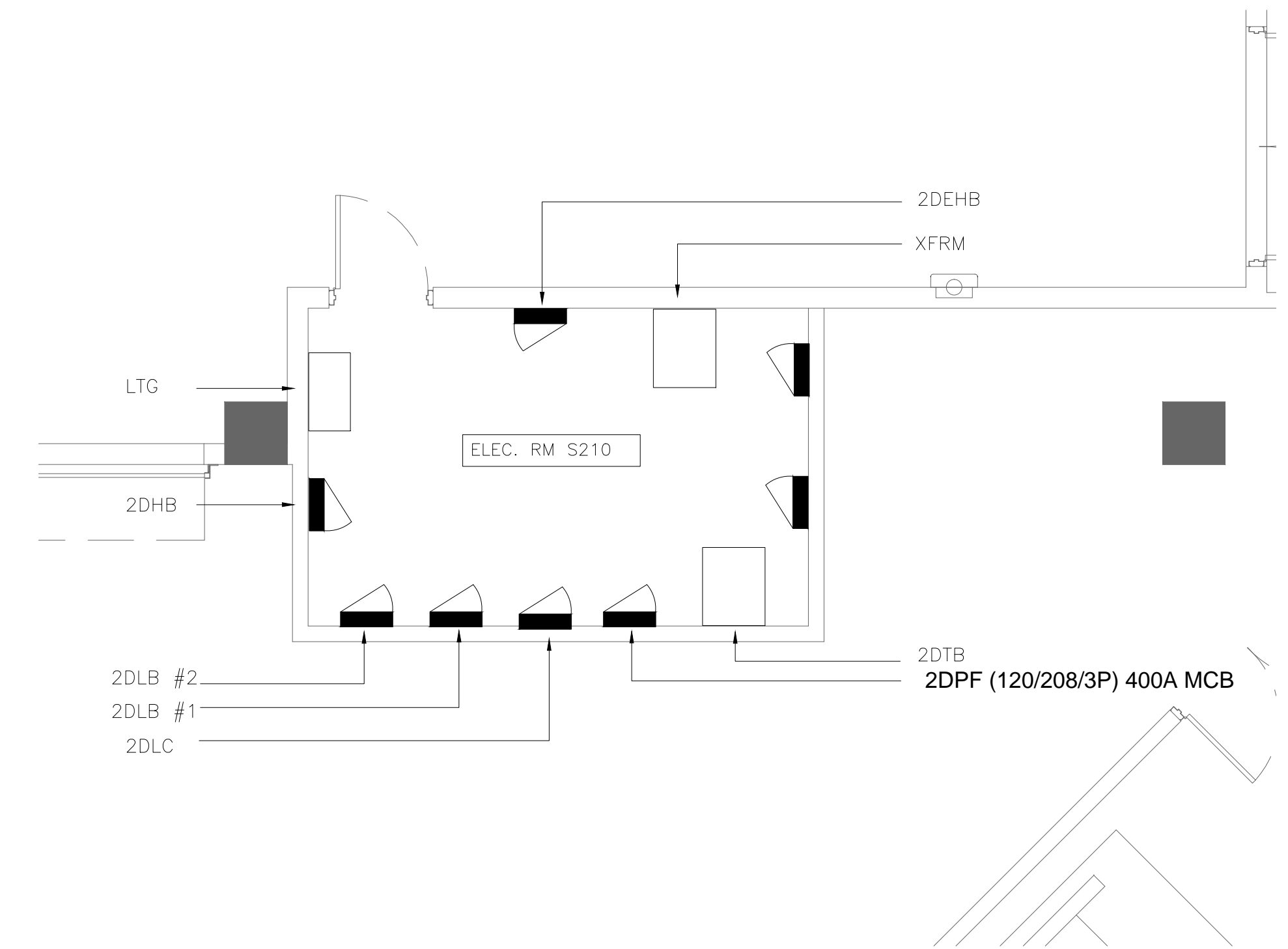
PROVIDE NEW BREAKERS FOR CIRCUIT 30.

PLAN NOTES

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



ELECTRICAL ROOM S206 AND IDF ROOM 261 ENLARGED PLAN  
 NORTH  
 1/4" = 1'-0"



ELECTRICAL ROOM S210 ENLARGED PLAN  
 NORTH  
 1/4" = 1'-0"