

# **ADDENDUM NO. 1**

**July 8, 2020**

**BIDDING AND CONTRACT DOCUMENTS**

**FOR**

**PHYSICS 2000 RENEWAL**

**PROJECT NO. 957443**

**CONTRACT NO. 957443-If-2020-88**



**The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same. Each bidder is responsible for transmitting this information to all affected subcontractors and suppliers before the Bid Deadline.**

**1. LIST OF DRAWINGS**

**Add** the List of Drawings issued in the Addendum

**2. APPROVED DRAWINGS**

**Add** the approved drawings issued in the Addendum

**END OF ADDENDUM**

**LIST OF DRAWINGS**

SHEET NO.	TITLE	DATE
G-001	TITLE SHEET	
G-002	PARTIAL SITE PLAN PROJECT LOCATION	
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A-002	SITE PLANS SYMBOLS & NOTES	
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A-005	1 <sup>ST</sup> FLOOR CLG. PLAN - DEMO	
A-006	BASEMENT REF CLG. PLAN- DEMO	
A-007	1 <sup>ST</sup> FLOOR PLAN- REMODEL	
A-008	BASEMENT FLOOR PLAN- REMODELED	
A-009	1 <sup>ST</sup> FLOOR REF CEILING PLAN	
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A-011	PARTIAL FLR. PLAN & DETAILS	
A-012	EXTERIOR ELEVATION	
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A-014	INTERIOR ELEVATION	
A-015	PARTIAL BUILDING SECTION	
A-016	SECTION & DETAILS	
A-017	SECTION & DETAILS	
A-018	SECTION & DETAILS	
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A-020	DETAIL & SCHEDULE	
E-001	GENERAL NOTES & SYMBOL LIST	
E-002	PANELS & SINGLE LINE DIAGRAM	
E-003	ELECTRICAL DETAILS	
E-004	TITLE 24 COMPLIANCE FORMS	
E-005	TITLE 24 COMPLIANCE FORMS	
E-100	SITE PLAN	
E-101	1 <sup>ST</sup> FLOOR DEMO PLAN	
E-102	1 <sup>ST</sup> FLOOR DEMO LIGHTING PLAN	
E-201	1 <sup>ST</sup> FLOOR POWER PLAN	
E-202	1 <sup>ST</sup> FLOOR LIGHTING PLAN	
E.8	SEATING OPTION 1 OF 2	
E.8	SEATING OPTION 2 OF 2	

END OF LIST OF DRAWINGS

### IDAS

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#### INDEX

- G-001 TITLE SHEET (THIS SHEET)
- G-002 PARTIAL CAMPUS SITE PLAN, PROJECT LOCATION
- A-001 (E) SITE PLAN - SELECTIVE DEMOLITION
- A-002 (N) SITE PLAN - REMODELED
- A-003 (E) 1st FLOOR PLAN - SELECTIVE DEMOLITION
- A-004 (E) BASEMENT PLAN - SELECTIVE DEMOLITION
- A-005 (E) 1st FLOOR REFLECTED CEILING PLAN  
SELECTIVE DEMOLITION
- A-006 (E) BASEMENT REFLECTED CEILING P  
SELECTIVE DEMOLITION
- A-007 (N) 1st FLOOR PLAN - REMODELED
- A-008 (N) BASEMENT PLAN - REMODELED
- A-009 (N) 1st FLOOR REFLECTED CEILING PLAN
- A-010 (N) BASEMENT REFLECTED CEILING PLAN
- A-011 PARTIAL FLOOR PLAN & DETAIL
- A-012 EXTERIOR ELEVATION
- A-013 EXTERIOR & INTERIOR ELEVATION
- A-014 INTERIOR ELEVATION
- A-015 PARTIAL BUILDING SECTION
- A-016 DETAIL
- A-017 DETAIL
- A-018 DETAIL
- A-019 DETAIL
- A-020 DETAIL & SCHEDULE

### STRUCTURAL

#### ABS CONSULTING

300 COMMERCE DRIVE, SUITE 200  
IRVINE, CA 96602-1300  
TEL. (714) 734-4242  
FAX. (714) 734-4272

#### INDEX

(NONE - MERGED W/ ARCH. DWG.)

### MECH. & PLUMBING

#### (NONE)

#### INDEX

(NONE - MERGED W/ ARCH. DWG.)

### ELECTRICAL

#### A&F ENGINEERING GROUP

9320 BASELINE RD. SUITE C  
RANCHO CUCAMONGA, CA 91701

TEL. (909) 941-3008  
FAX (909) 941-8211

#### INDEX

- E-001 GENERAL NOTES & SYMBOL LIST
- E-002 PANELS & SINGLE LINE DIAGRAM
- E-003 ELECTRICAL DETAILS
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- E-202 1ST FLOOR LIGHTING PLAN

### FURNITURE

#### KI

1330 BELLEVUE STREET  
GREEN BAY, WI 54302

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FAX (909) 941-8211

#### INDEX

- 1 SEATING OPTION 1
- 2 SEATING OPTION 2



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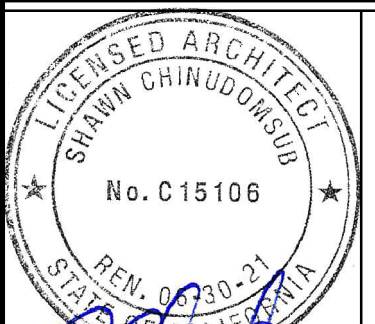
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Tel: (951) 342-3135 Fax: (951) 342-3137

Architect's Date:



Architect's Stamp:

Consultants Stamp:

### CODES & REGULATIONS

2019 CALIFORNIA BUILDING CODE (CBC) PART 2, VOLUMES 1 AND 2, TITLE 24 [BASED ON 2018 INTERNATIONAL BUILDING CODE]

2019 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 [BASED ON 2017 NATIONAL ELECTRICAL CODE]

2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 [BASED ON 2018 UNIFORM MECHANICAL CODE]

2019 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 [BASED ON 2018 UNIFORM PLUMBING CODE]

2019 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 [BASED ON 2018 INTERNATIONAL FIRE CODE]

2019 CALIFORNIA REFERENCED STANDARD CODE, PART 12, TITLE 24

TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS

NFPA 13, 2016 EDITION - INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED BY CSFM)

NFPA 14, 2016 EDITION - INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (AS AMENDED BY CSFM)

NFPA 17A, 2017 EDITION - WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 24, 2016 EDITION - INSTALLATION OF PRIVATE FIRE SERVICE MAINS (AS AMENDED BY CSFM)

NFPA 25, (2013 CALIFORNIA EDITION, BASED ON NFPA 25, 2011 EDITION) - INSPECTION, TESTING & MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

NFPA 72, 2016 EDITION - NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED BY CSFM)

NFPA 80, 2016 EDITION - FIRE DOORS AND OTHER OPENING PROTECTIVES

REFER TO CBC CHAPTER 35 FOR ADDITIONAL STANDARDS NOT PROVIDED ON THIS LIST.

### EVALUATION REPORTS

1. ALL POWER-ACTUATED FASTENERS (SHOT PINS) SHALL BE HILTI LOW VELOCITY X-U, CONFORMING TO ICC-ES ESR-2269.
2. ALL POWER-ACTUATED CEILING CLIP ASSEMBLIES SHALL BE HILTI X-CW U27, CONFORMING TO ICC-ES ESR-2892.
3. ALL EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KWIK BOLT TZ CONFORMING TO ICC-ES ESR 1917.
4. ALL EXPANSION ANCHORS IN CMU SHALL BE HILTI KWIK BOLT 3 CONFORMING TO ICC-ES ESR 1385.
5. ALL METAL STUDS SHALL CONFORM TO ICC-ES ER-3016 OR ER-3064P.
6. ALL SUSPENDED ACOUSTICAL CEILING GRIDS SHALL BE PER ICC-ES ESR 1289, ESR 1308 AND ESR 2681.

### FIRE DEPARTMENT NOTES

1. PROVIDE FIRE ALARM MONITORING PLANS FOR APPROVAL UNDER SEPARATE PERMIT.
2. PROVIDE 2A-10:BC RATED FIRE EXTINGUISHER INSIDE PROJECT AREA AT ALL TIME..
3. FIRE EXTINGUISHERS SHALL BE PROVIDED PRIOR TO OCCUPANCY. FIRE EXTINGUISHERS SHALL BEAR A CALIFORNIA STATE FIRE MARSHAL'S SERVICE TAG; IT SHALL BE APPROPRIATELY RATED FOR THE HAZARD; SHALL BE MOUNTED SO THAT TOP OF THE EXTINGUISHERS IS NO HIGHER THAN FIVE (5) FEET; AND SHALL BE LOCATED SUCH THAT TRAVEL DISTANCE TO AN EXTINGUISHER DOES NOT EXCEED SEVENTY-FIVE (75) FEET.
4. OCCUPANT SHALL OBTAIN FIRE DEPARTMENT PERMITS AS REQUIRED BY U.F.C. ARTICLE 4 PRIOR TO OCCUPANCY OF BUILDING.
5. STORAGE, USE & DISPENSING OF MATERIALS SHALL COMPLY WITH TABLES 9-A, 9-B, 9-C, 9-D, 9-E OF THE UNIFORM BUILDING CODE & ARTICLES 79, 80 & 81 OF THE CALIFORNIA BUILDING CODE.

### BUILDING INFORMATION

YEAR BUILT: 1963  
ARCHITECTS: MAYNARD LYNDON, FAIA  
OCCUPANCY TYPE: A-3  
PROJECT FLOOR AREA: 4,856 SF INTERIOR (NO INCREASE) (1,515 SF SITE IMPROVEMENT)  
EXISTING: 3-N (PER 2019 CBC) W/O AUTO SPRINKLERS)

CONSTRUCTION TYPE: (PER CODE BASED ON CONSTRUCTION AND OCCUPANCY TYPE)

ACTUAL BUILDING AREA: 6,979 SF (MEZZANINE = 309 SF)  
ALLOWABLE AREA: 9,500 SF (MEZZANINE = 3,167 SF)  
ACTUAL HEIGHT: 41 FEET (FROM BASEMENT LEVEL)  
ALLOWABLE HEIGHT: 40 FEET  
NUMBER OF STORIES: 1 (W/ CATWALK & MEZZANINE)  
ALLOWABLE STORIES: 1

FIRE RESISTANCE-RATED CONSTRUCTION:

EXTERIOR WALL: NONCOMBUSTIBLE NO REQUIREMENTS (X>30')  
EXTERIOR BEARING WALL: NO REQUIREMENTS  
EXTERIOR NON-BEARING WALL: 1 HR (X<5')  
INTERIOR NON-BEARING WALL: NO REQUIREMENTS  
STRUCTURAL FRAME: NO REQUIREMENTS  
FLOOR AND FLOOR/CEILING: NO REQUIREMENTS  
ROOF AND ROOF/CEILING: NO REQUIREMENTS  
EXTERIOR DOORS AND WINDOWS: NO LIMIT (X>30')

FIRE WALL: 3 HR NO REQUIREMENTS WHEN FURNACE ROOM IS LESS THAN 400,000 BTU/HR AND LAUNDRY ROOM IS <100 SF  
FIRE BARRIER: NO REQUIREMENTS

FIRE PARTITION: NO REQUIREMENTS  
SMOKE BARRIER: NO REQUIREMENTS  
SMOKE PARTITION: NO REQUIREMENTS  
HORIZONTAL ASSEMBLIES: NO REQUIREMENTS  
OPENING PROTECTIVE: NO REQUIREMENTS  
DUCT AND AIR TRANSFER OPENINGS: NO REQUIREMENTS  
CONCEALED SPACES: FIRE BLOCKING: UNKNOWN  
DRAFTSTOPPING: NO REQUIREMENTS

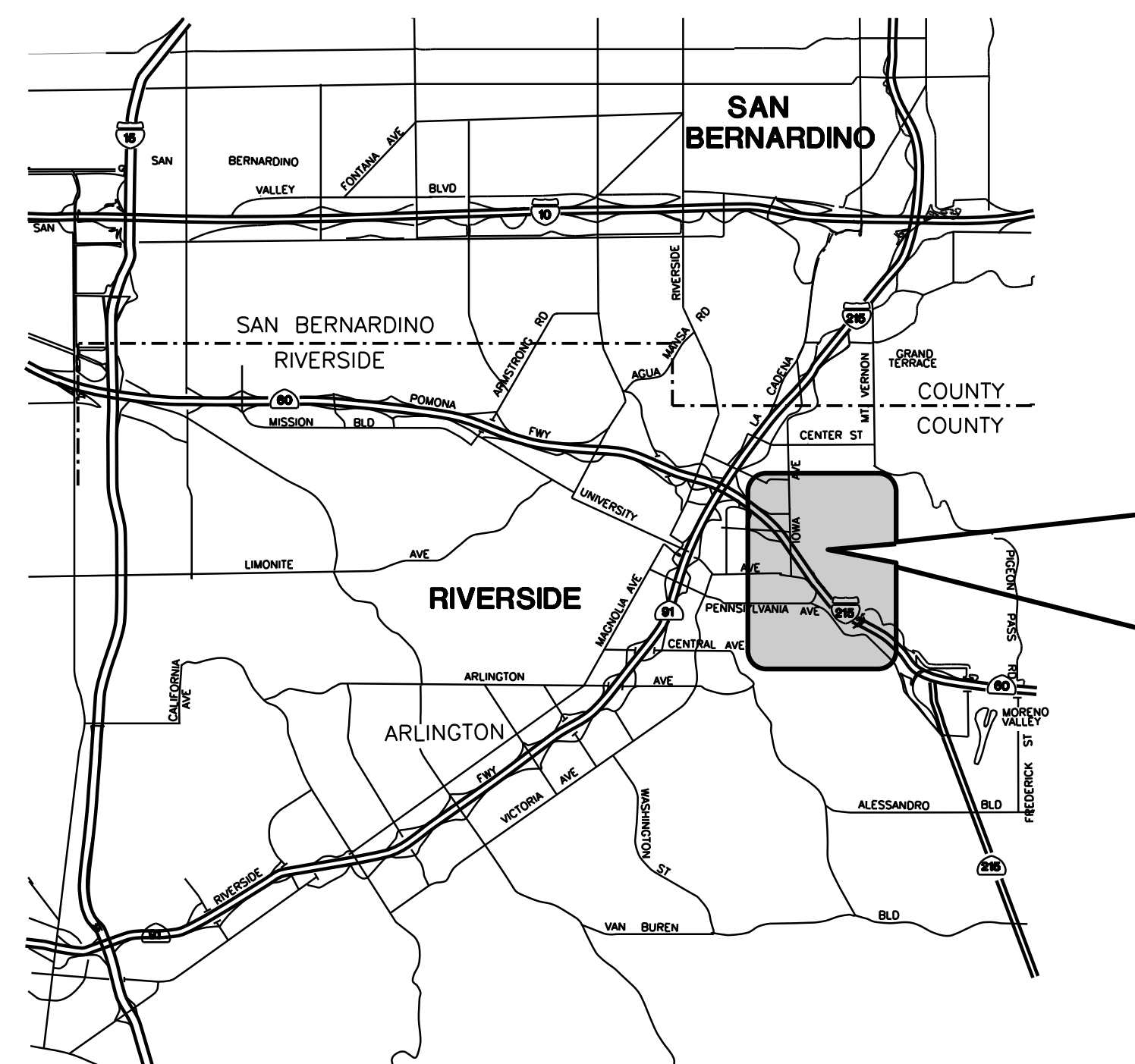
INTERIOR FINISH (W/O AUTOMATIC SPRINKLER SYSTEM):  
WALL: ROOM AND ENCLOSED SPACES: CLASS C  
FLOOR: CLASS II (MINIMUM CRITICAL RADIANT FLUX)

FIRE PROTECTION SYSTEM:  
AUTOMATIC SPRINKLER SYSTEM: NONE  
FIRE ALARM SYSTEM: A FIRE ALARM SYSTEM IN COMPLIANCE WITH THE CURRENT CODE NEEDS TO BE PROVIDED AND IS REQUIRED TO MEET THE UCR CAMPUS SYSTEM.

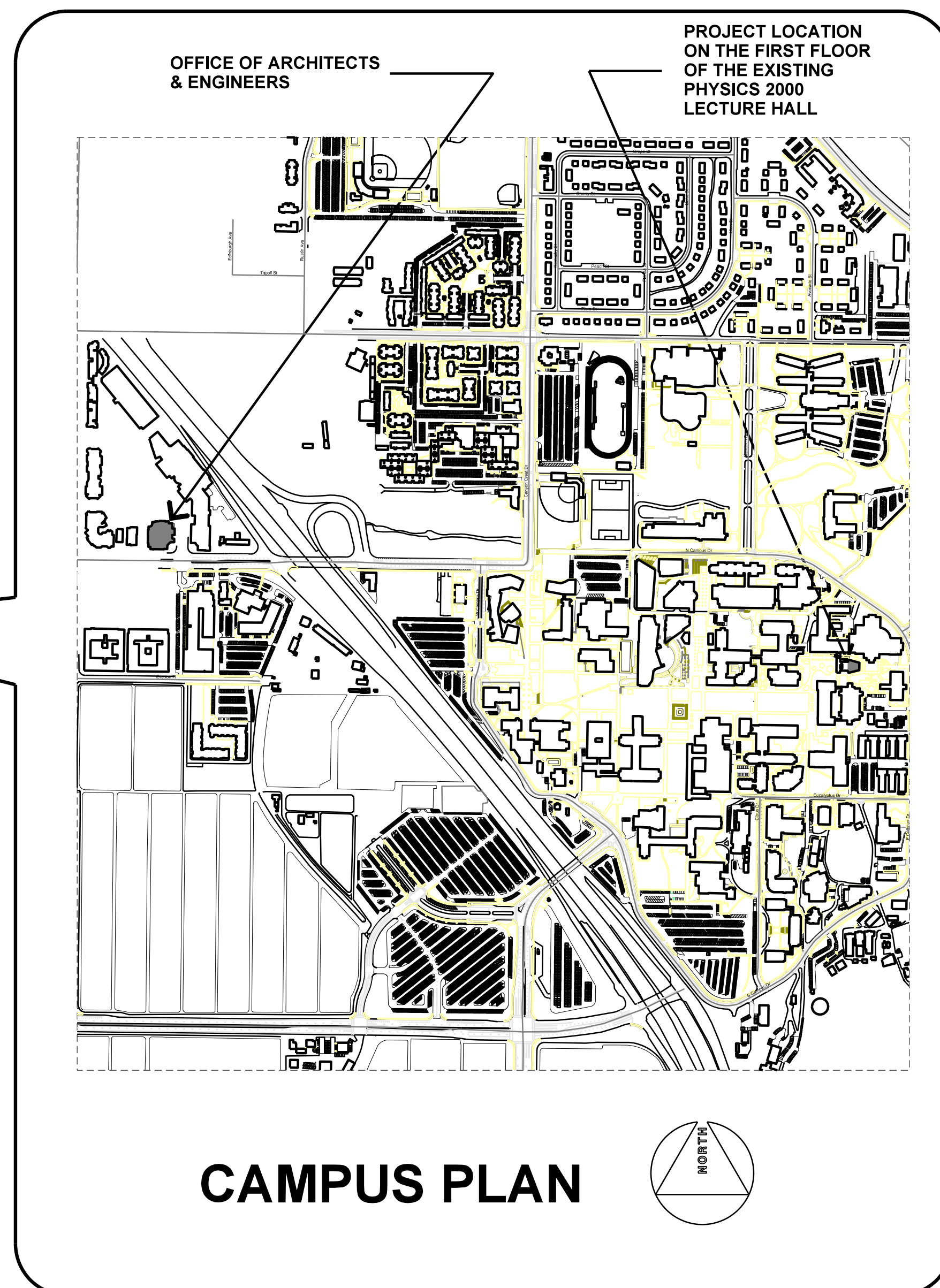
### PROJECT DESCRIPTION

RENOVATION OF LECTURE HALL WITH STEPPED SEATING, FOYER, AND STOREFRONT ENTRANCE AT THE EXISTING SEMI-DETACHED PHYSICS 2000 BUILDING, IN THE MIDDLE OF UCR CAMPUS, FOR THE APPROXIMATE BUILDING AREAS OF 4,856 SQUARE FEET, AND ALSO INCLUDES EXTERIOR SITE IMPROVEMENT OF STAIRS, RAMPS, HANDRAILS, GUARDS, ETC., FOR THE APPROXIMATE AREA OF 1,515 SQUARE FEET, AS SHOWN ON THIS SET OF DRAWINGS.

THE SCOPE OF THIS PROJECT INCLUDES MINOR MECHANICAL WORK (SHOWN IN ARCHITECTURAL DRAWINGS). NO PLUMBING WORK.



### VICINITY MAP



### CAMPUS PLAN

PROJECT TITLE  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL  
CONSTRUCTION DOCUMENTS

#### REVISIONS

REV #	DESCRIPTION	DATE

OFFICE OF THE STATE FIRE MARSHAL, APPROVED FIRE AND FAN ONLY  
07/07/2020

APPROVED  
UCR RIVERSIDE  
Office of Planning, Design & Construction Services City of Riverside  
Building, Safety and Compliance Division  
Construction Division Reviewer

Reviewed: [Signature]  
Reviewed by: [Signature]

Consultants Data:  
Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

UCR project manager  
SCOTT DONNEL

Scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
Checked by	S.C.	cd approval
UCR project no.	957443	construction release
050 number		

Drawing Name  
TITLE SHEET

Sheet No.  
G-001  
OF





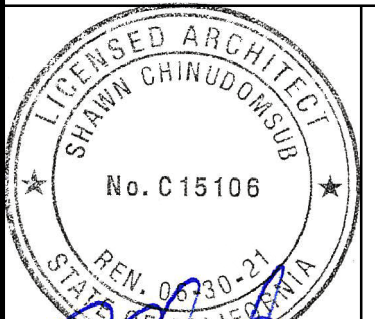


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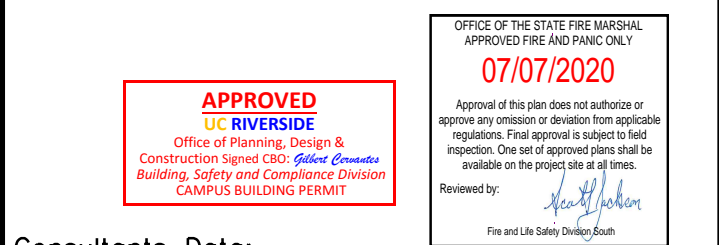
Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**  
CONSTRUCTION DOCUMENTS

REVISIONS		
REV #	DESCRIPTION	DATE



Consultants Data:

Project Title  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**

UCR project manager <b>SCOTT DONNEL</b>	
Scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval
UCR project no. 957443	05/11/20
also number	release

Drawing Name  
**(N) SITE PLAN & NOTES**  
Sheet No. **A-002** of

NOTE:

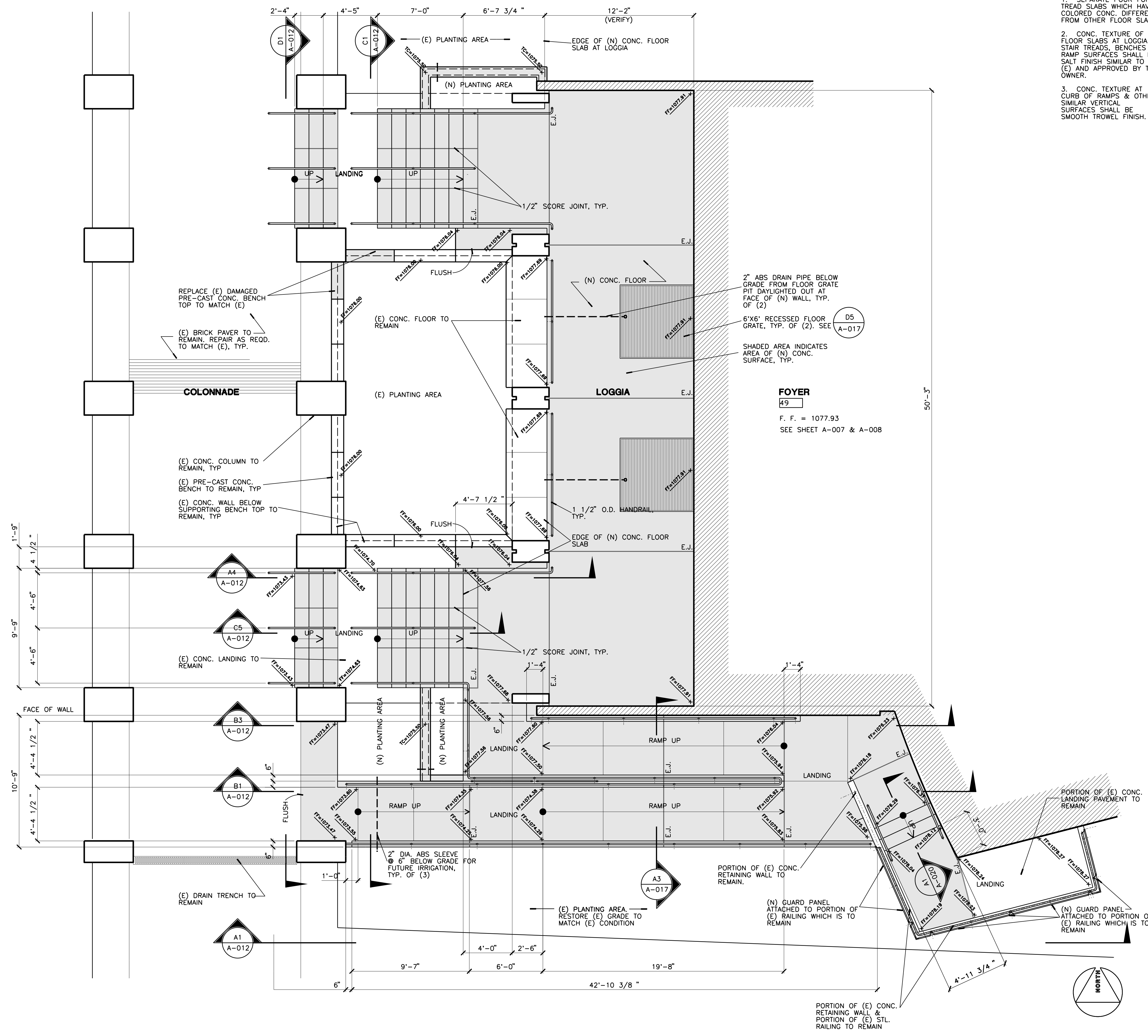
1. SEPARATE POUR FOR TREAD FLOOR GRATE COLORED CONC. DIFFERENT FROM OTHER FLOOR SLABS.
2. CONC. TEXTURE OF FLOOR SLABS AT LOGGIA, STAIR TREADS, BENCHES & RAMP SURFACES SHALL BE SALT FINISH SIMILAR TO (E) AND APPROVED BY THE OWNER.
3. CONC. TEXTURE AT CURB OF RAMP & OTHER SIMILAR VERTICAL SURFACES SHALL BE SMOOTH TROWEL FINISH.

- EXTERIOR EXIT DISCHARGE**
- NORTH ARROW**  
PLAN NORTH DIRECTION TRUE NORTH MAY DIFFER AS SHOWN
- EXISTING WALL OR OTHER ITEMS TO BE REMOVED**  
METAL STUD W/ GYP. BD. AT INT. WALLS, U.N.O.
- EXISTING WALL TO REMAIN**  
METAL STUD W/ GYP. BD. AT INT. WALLS, U.N.O.
- NEW WALL TYPE**  
NUMBER INSIDE THE BOX REPRESENTS WALL TYPE. SEE DETAIL
- EXISTING CONC. WALL TO REMAIN**
- DETAIL CALL-OUT**  
DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN.
- ELEVATION**  
ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN.
- SECTION CUT**  
SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN.
- REVISION**  
CLOUD AROUND REVISION.
- GRID LINE**  
VERTICAL LETTERS, HORIZONTAL NUMBERS.
- MATCH LINE**  
SHEET WHERE ROOF WORK CONTIGUES
- ROOM IDENTIFICATION**  
ROOM NAME ON TOP, ROOM NUMBER IN BOX
- CONTROL POINT**  
OR WORK POINT OR DATUM POINT
- DOOR IDENTIFICATION NUMBER**  
LOCATION OF DOOR IDENTIFICATION SYMBOL COINCIDES W/ SIDE OF REFERENCED ROOM.  
(E) = EXISTING (R) = RELOCATE
- WINDOW IDENTIFICATION**
- EQUIPMENT IDENTIFICATION**

<b>C5</b>	<b>SYMBOLS</b>
NONE	

- OWNER-FURNISHED, CONTRACTOR-INSTALLED (O.F.C.I.)
1. THE CONTRACTOR SHALL VERIFY EXACT SIZES AND SERVICES REQUIRED FOR EACH ITEM OF EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE PROJECT MANUAL AS O.F.C.I. AND SHALL OBTAIN FROM THE OWNER ROUGH-IN DRAWINGS, DIAGRAMS, SETTING TEMPLATES, AND OTHER NECESSARY INFORMATION TO ASSURE PROPER MATING OF ASSEMBLIES. NOTIFY ARCHITECT FOR ANY VARIATIONS.
  2. PROVIDE ALL MATERIAL AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF EACH UTILITY, WHETHER OR NOT ALL SUCH MATERIALS AND APPURTENANCES ARE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.
  3. THE CONTRACTOR SHALL RECEIVE AT THE PROJECT SITE EACH ITEM OF EQUIPMENT FROM THE OWNER AND FROM THAT TIME ON, SHALL ASSUME FULL RESPONSIBILITY FOR THE ITEMS AND EQUIPMENT UNTIL ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
  4. THE CONTRACTOR SHALL GIVE THE OWNER 90 DAYS PRIOR NOTICE OF THE REQUIREMENT FOR DELIVERY TO THE SITE OF ALL O.F.C.I. EQUIPMENT.
  5. CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING O.F.C.I. ITEMS AND EQUIPMENT AND SHALL UNCRATE, INSPECT AND NOTIFY THE OWNER IN WRITING WITHIN 2 DAYS OF RECEIVING SAID ITEMS OR EQUIPMENT OF THE ACCEPTANCE OR REJECTION OF THE ITEMS OR EQUIPMENT. THE OWNER, AFTER RECEIVING NOTICE, WILL TAKE APPROPRIATE ACTION TO HAVE THE ITEMS OR EQUIPMENT MADE ACCEPTABLE FOR THE CONTRACTOR'S USE. REJECTED ITEMS SHALL BE CAREFULLY STORED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR UNTIL THE OWNER TAKES APPROPRIATE ACTION.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PLACING, INSTALLATION, CONNECTION, START-UP, CHECKING, TESTING AND DEMONSTRATED SATISFACTORY OPERATION. THE OWNER WILL PROVIDE NAMES OF MANUFACTURER'S REPRESENTATIVES, WHO SHALL ASSIST THE CONTRACTOR IN CHECKING, TESTING AND DEMONSTRATING THE EQUIPMENT.
  7. O.F.C.I. ITEMS:
    - A. METAL PERFORATED PANELS WITH POWDER COATED FINISH FOR MODESTY RAILINGS INSIDE LECTURE HALL 48. (SUPPORT FRAMES & RAILINGS ARE INCLUDED IN THIS CONTRACT.)

- OWNER-FURNISHED, OWNER-INSTALLED WORK (O.F.O.I.)
1. ITEMS SHOWN ON THE DRAWINGS AS O.F.O.I. SHALL BE FURNISHED BY THE OWNER & INSTALLED BY THE OWNER. WORK INDICATED AS O.F.O.I. WILL BE PERFORMED UNDER SEPARATE CONTRACT, EMPLOYED BY THE OWNER AT HIS DISCRETION. WHERE WORK OF THIS CONTRACT ADJOINS OR CONFLICTS WITH O.F.O.I. WORK, THE CONTRACTOR SHALL COOPERATE WITH THE OWNER & HIS/HER EMPLOYEES IN A MANNER WHICH WILL PROVIDE FOR A REASONABLE & ACCURATE COMPLETION OF THIS CONTRACT & WORK UNDER SEPARATE CONTRACT.
  2. O.F.O.I. ITEMS:
    - A. SEATS & WORK SURFACES INSIDE LECTURE HALL 48. SEE FURNITURE DRAWINGS



**A1** NEW SITE PLAN - REMODELED  
1/4" = 1'-0"

**A5** O.F.C.I. & O.F.O.I. NOTES  
NONE

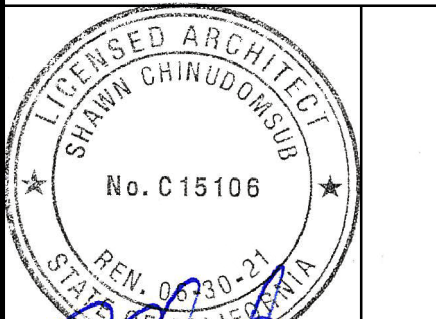


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Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**  
**CONSTRUCTION DOCUMENTS**

REVISIONS

REV #	DESCRIPTION	DATE

APPROVED WITH COMMENTS  
see A 007 for reversed door swing

Consultants Data:

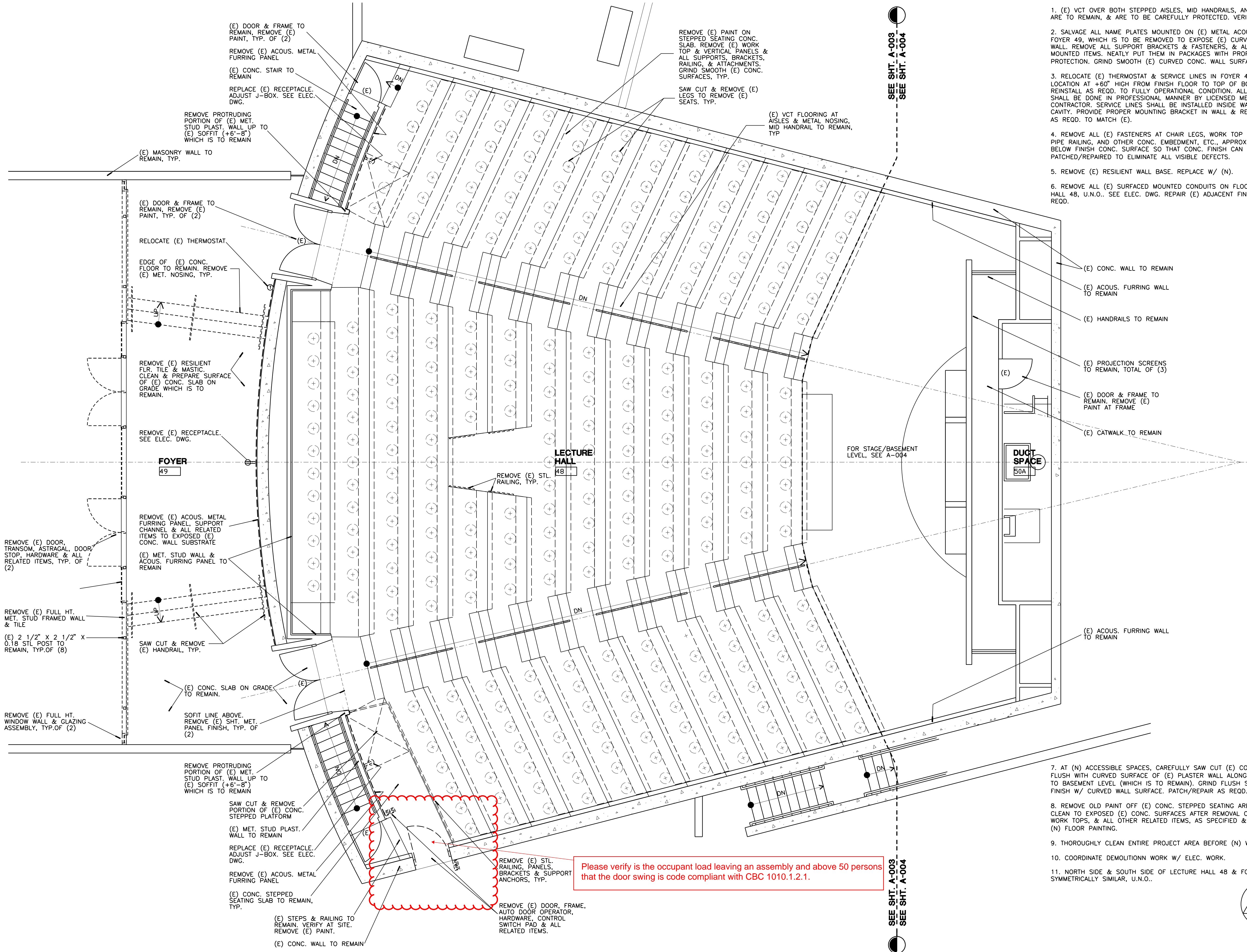
Project Title  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager <b>SCOTT DONNEL</b>	
scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval 05/11/20
UCR project no. 957443	construction release
also number	

Drawing Name  
**(E) 1st FLR. PLAN - DEMOLITION**  
Sheet No.  
**A-003**  
OF

DEMOLITION NOTES

1. (E) VCT OVER BOTH STEPPED AISLES, MID HANDRAILS, AND NOSING ARE TO REMAIN, & ARE TO BE CAREFULLY PROTECTED. VERIFY AT SITE.
2. SALVAGE ALL NAME PLATES MOUNTED ON (E) METAL ACOUS. PANEL IN FOYER 49, WHICH IS TO BE REMOVED TO EXPOSE (E) CURVED CONC. WALL. REMOVE ALL SUPPORT BRACKETS & FASTENERS, & ALL OTHER WALL MOUNTED ITEMS. NEATLY PUT THEM IN PACKAGES WITH PROPER PROTECTION. GRIND SMOOTH (E) CURVED CONC. WALL SURFACE.
3. RELOCATE (E) THERMOSTAT & SERVICE LINES IN FOYER 49 TO (N) LOCATION AT 4'-60" HIGH FROM FINISH FLOOR TO TOP OF BOX, & REINSTALL AS REQD. TO FULLY OPERATIONAL CONDITION. ALL WORK SHALL BE DONE IN PROFESSIONAL MANNER BY LICENSED MECHANICAL CONTRACTOR. SERVICE LINES SHALL BE INSTALLED INSIDE WALL CAVITY. PROVIDE PROPER MOUNTING BRACKET IN WALL & REPAIR WALL AS REQD. TO MATCH (E).
4. REMOVE ALL (E) FASTENERS AT CHAIR LEGS, WORK TOP SUPPORTS, PIPE RAILING, AND OTHER CONC. EMBEDMENT, ETC., APPROX. 1/2" BELOW FINISH CONC. SURFACE SO THAT CONC. FINISH CAN BE PROPERLY PATCHED/REPAIRED TO ELIMINATE ALL VISIBLE DEFECTS.
5. REMOVE (E) RESILIENT WALL BASE. REPLACE W/ (N).
6. REMOVE ALL (E) SURFACED MOUNTED CONDUITS ON FLOOR OF LECTURE HALL 48, U.N.O.. SEE ELEC. DWG. REPAIR (E) ADJACENT FINISHES AS REQD.



Please verify is the occupant load leaving an assembly and above 50 persons that the door swing is code compliant with CBC 1010.1.2.1.

**A1** (E) 1st FLOOR PLAN - DEMOLITION

1/4" = 1'-0"







UNIVERSITY OF CALIFORNIA RIVERSIDE

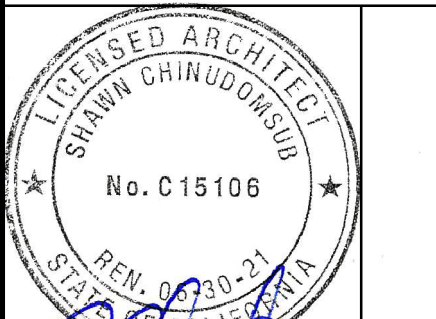
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Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL  
CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

OFFICE OF THE CLERK OF THE SUPERIOR COURT  
APPROVED FOR PERMIT  
07/07/2020

APPROVED  
UCR RIVERSIDE  
Office of Institutional Design & Construction  
Building Safety and Construction Division  
CLERK OF SUPERIOR COURT  
CLARK COUNTY BUILDING PERMIT

Reviewed by: [Signature]  
Reviewed on: 07/07/20

Consultants Data:

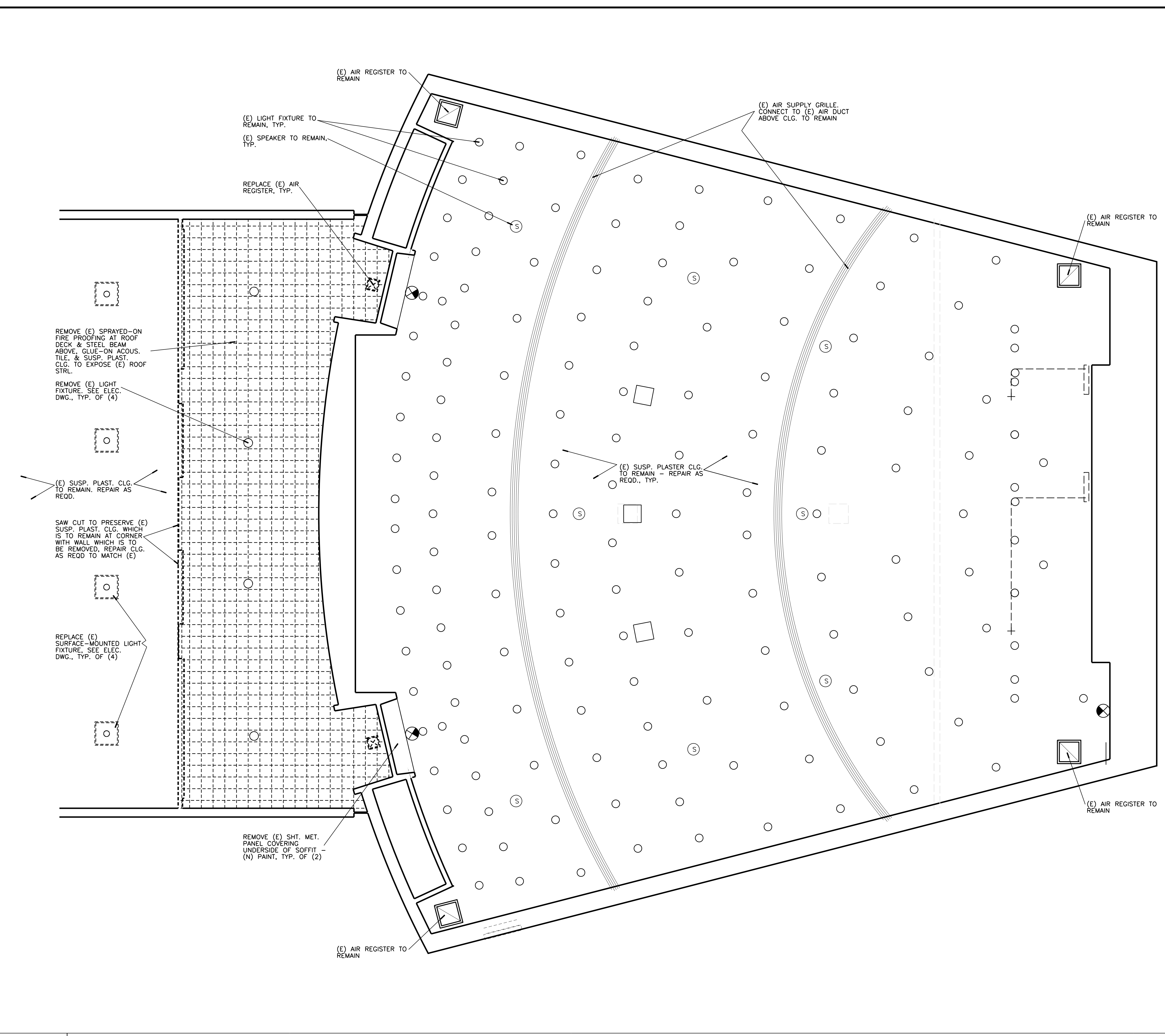
Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

UCR project manager  
SCOTT DONNEL

scale	AS NOTED	sd approval
Drawn by	J.D.	dd approval
Checked by	S.C.	cd approval
UCR project no.	957443	construction release
05/11/20		

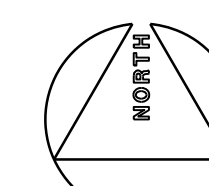
Drawing Name  
(E) 1st FLR. REF. CLG. PLAN - DEMO

Sheet No. A-005 of



**A1** (E) 1st FLOOR REFLECTED CEILING PLAN - DEMOLITION

1/4" = 1'-0"



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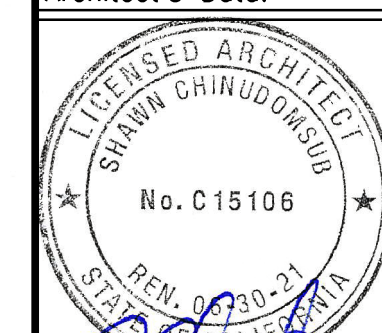
OFFICE OF ARCHITECTS & ENGINEERS

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RIVERSIDE, CA. 92507  
TEL:(951) 827-4706 FAX:(951) 827-2402



Institutional Designs & Architectural Services  
3803 10th Street, Riverside, CA 92501-3521  
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Architect's Data:



Architect's Stamp:

Consultants Stamp:

PROJECT TITLE  
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DMFI PROJECTS 2019  
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CONSTRUCTION DOCUMENTS

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APPROVE FOR PERMITS ONLY

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07/07/2020

OFFICE OF PLANNING, DESIGN & CONSTRUCTION  
CLERK OF SUPERIOR COURT  
CLERK OF SUPERIOR COURT  
CLERK OF SUPERIOR COURT

Consultants Data:

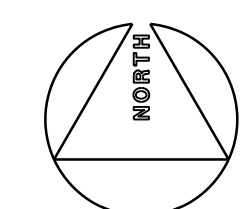
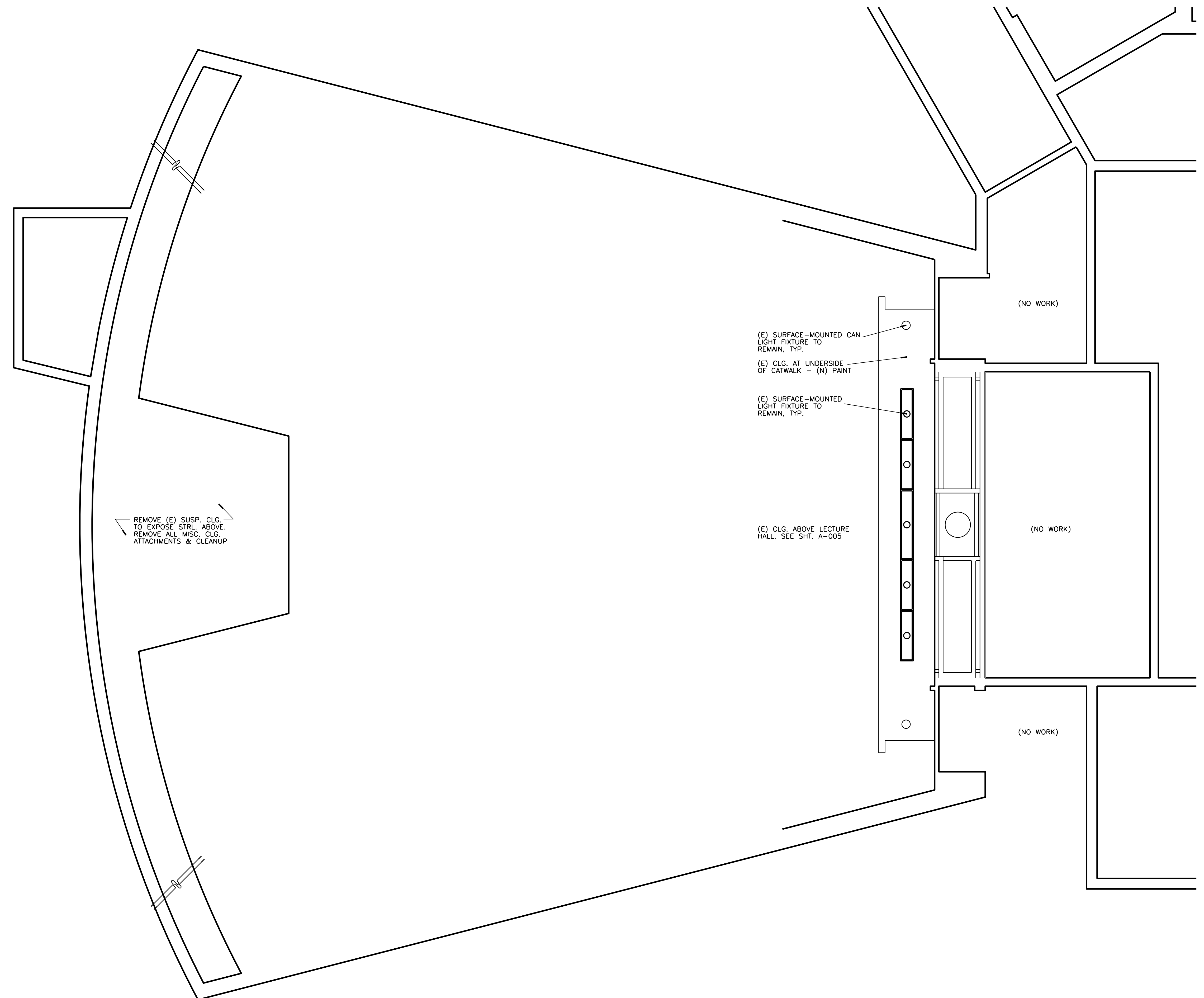
Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

UCR project manager  
SCOTT DONNEL

Scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
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UCR project no.	957443	05/11/20
also number		construction release

Drawing Name  
(E) BASEMENT REF. CLG. PLAN - DEMO

Sheet No.  
A-006  
of



A1 (E) BASEMENT REFLECTED CEILING PLAN - DEMOLITION

1/4" = 1'-0"

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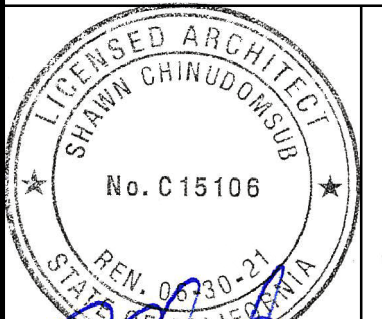
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Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
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**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**  
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REV #	DESCRIPTION	DATE

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07/07/2020  
Office of Planning, Design & Construction, University of California, Riverside  
Reviewed by: [Signature]  
Reviewed by: [Signature]

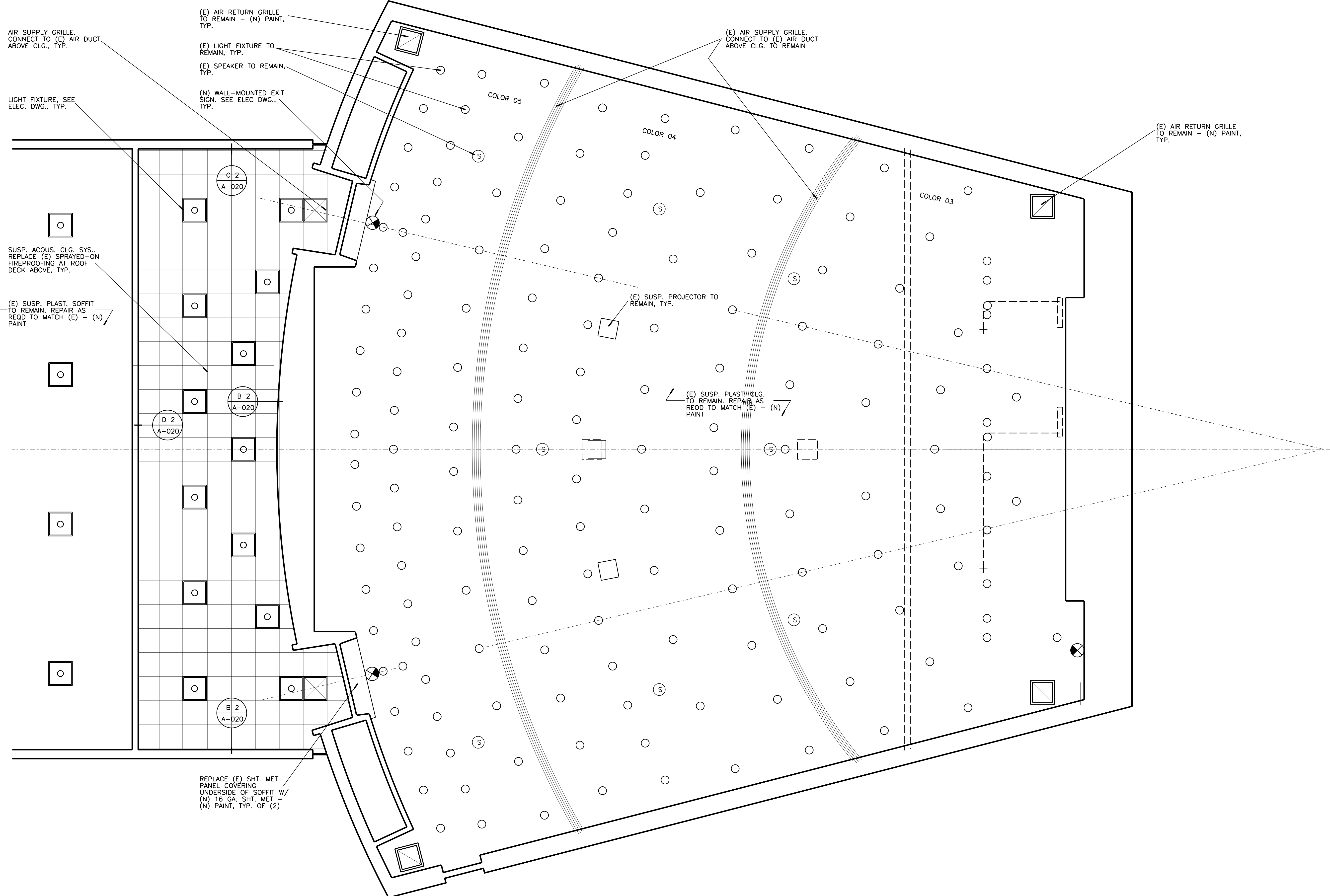
Consultants Data:

Project Title  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

Scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
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UCR project no.	957443	05/11/20
aso number		construction release

Drawing Name  
**(N) 1st FLR. REF. CEILING PLAN**  
Sheet No.  
**A-009**  
of



AIR SUPPLY GRILLE. CONNECT TO (E) AIR DUCT ABOVE CLG., TYP.

(E) AIR RETURN GRILLE TO REMAIN - (N) PAINT, TYP.

(E) LIGHT FIXTURE TO REMAIN, TYP.

(E) SPEAKER TO REMAIN, TYP.

(N) WALL-MOUNTED EXIT SIGN. SEE ELEC DWG., TYP.

(E) AIR SUPPLY GRILLE. CONNECT TO (E) AIR DUCT ABOVE CLG. TO REMAIN

(E) AIR RETURN GRILLE TO REMAIN - (N) PAINT, TYP.

LIGHT FIXTURE, SEE ELEC. DWG., TYP.

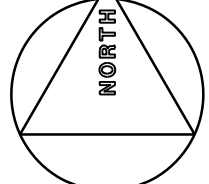
SUSP. ACOUS. CLG. SYS. REPLACE (E) SPRAYED-ON FIREPROOFING AT ROOF DECK ABOVE, TYP.

(E) SUSP. PLAST. SOFFIT TO REMAIN. REPAIR AS REQD TO MATCH (E) - (N) PAINT

(E) SUSP. PROJECTOR TO REMAIN, TYP.

(E) SUSP. PLAST. CLG. TO REMAIN. REPAIR AS REQD TO MATCH (E) - (N) PAINT

REPLACE (E) SHT. MET. PANEL COVERING UNDERSIDE OF SOFFIT W/ (N) 16 GA. SHT. MET - (N) PAINT, TYP. OF (2)



**A1** (N) 1st FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"

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319230PP



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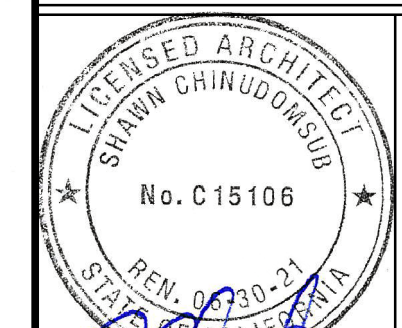
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Architect's Data:



Architect's Stamp:

Consultants Stamp:

PROJECT TITLE  
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REV #	DESCRIPTION	DATE

**APPROVED**  
UCR RIVERSIDE  
Office of Planning, Design & Construction  
Building, Safety and Compliance Division  
COURTESY BUILDING PERMIT

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Approved for this plan does not authorize or represent approval or denial from applicable agencies. The seal of approval does not constitute an approval or denial from applicable agencies. The seal of approval does not constitute an approval or denial from applicable agencies.

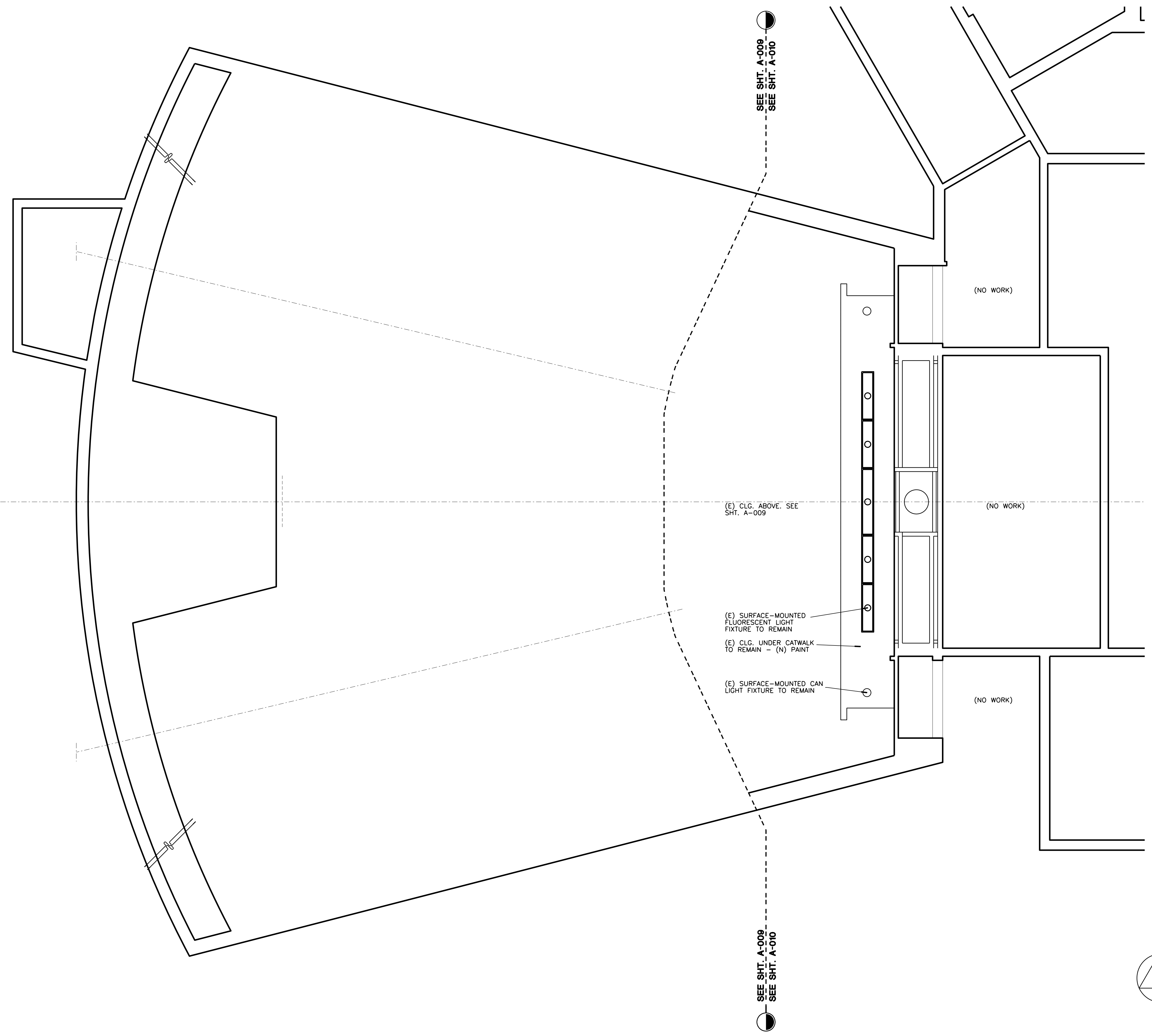
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Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

UCR project manager  
**SCOTT DONNEL**

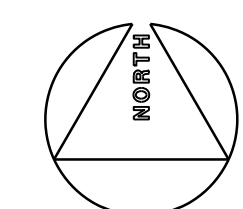
Scale	AS NOTED	sd approval
Drawn by	J.D.	jd approval
Checked by	S.C.	sc approval
UCR project no.	957443	construction release
050 number		

Drawing Name  
(N) BASEMENT REF. CLG. PLAN  
Sheet No.  
A-010  
OF



SEE SHT. A-009  
SEE SHT. A-010

SEE SHT. A-009  
SEE SHT. A-010



**A1** (N) BASEMENT REFLECTED CEILING PLAN  
1/4" = 1'-0"

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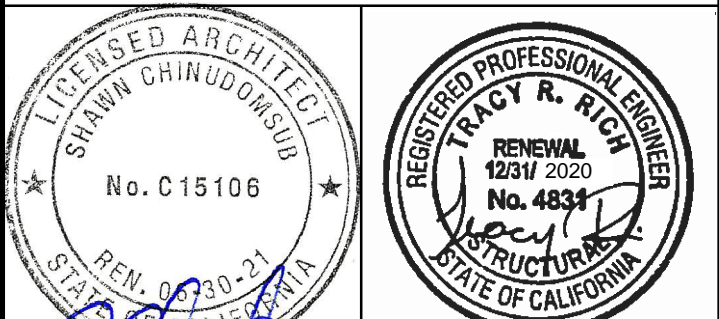


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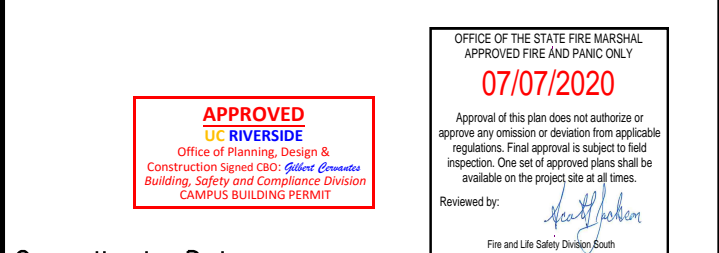


Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**  
CONSTRUCTION DOCUMENTS

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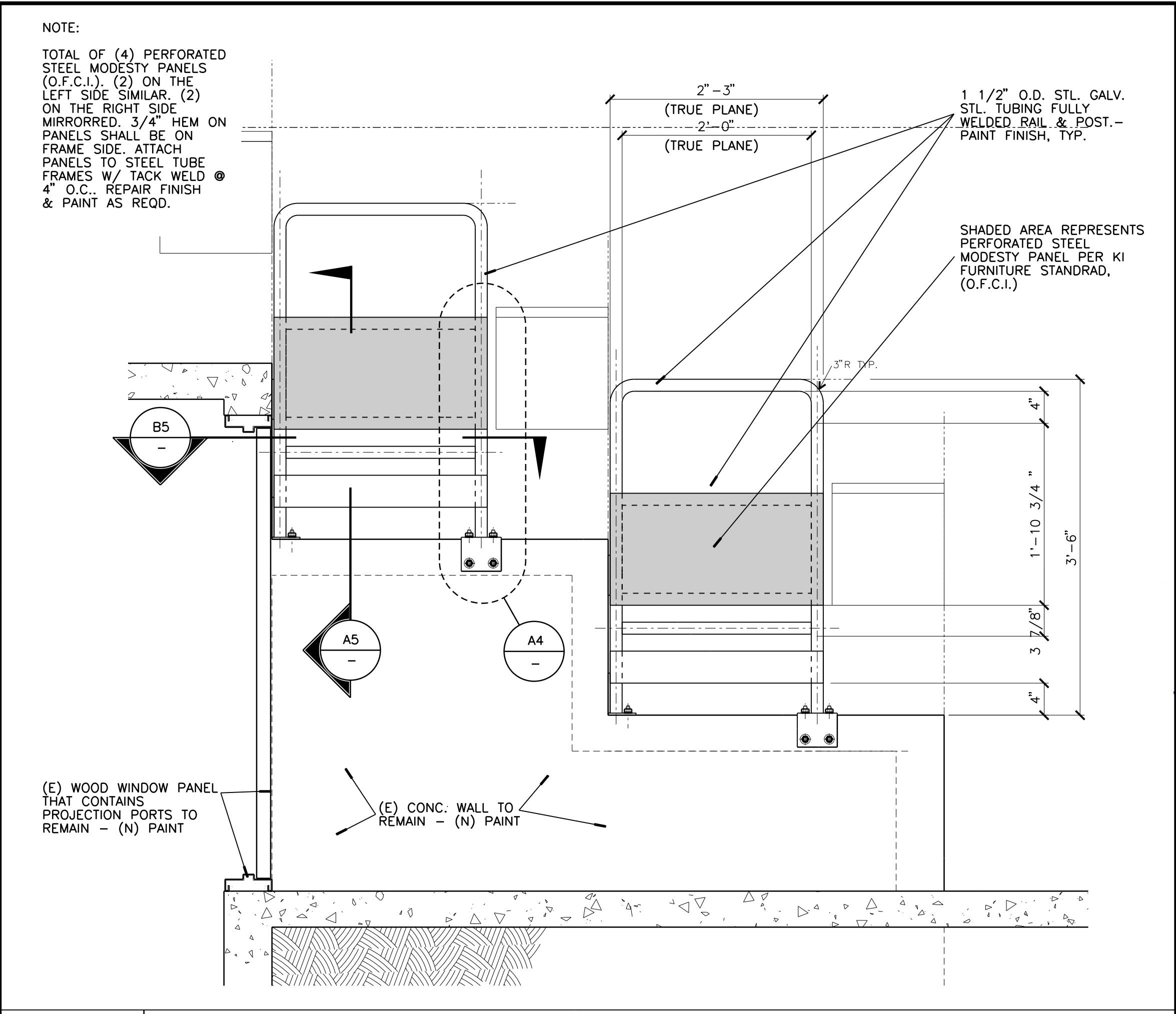
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**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

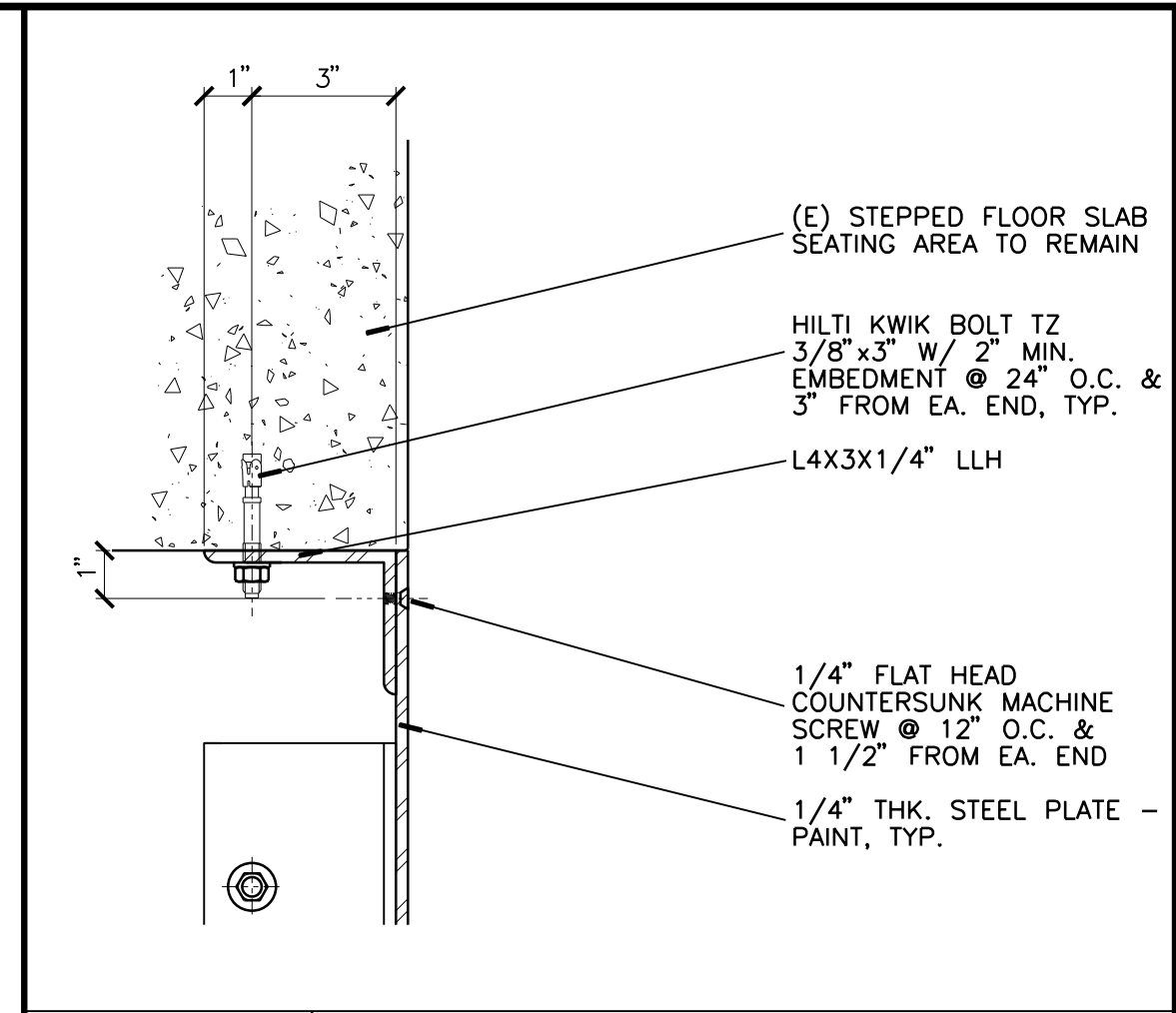
Scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
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UCR project no.	957443	construction release
date number		

Drawing Name  
**PARTIAL FLR. PLAN & DETAILS**

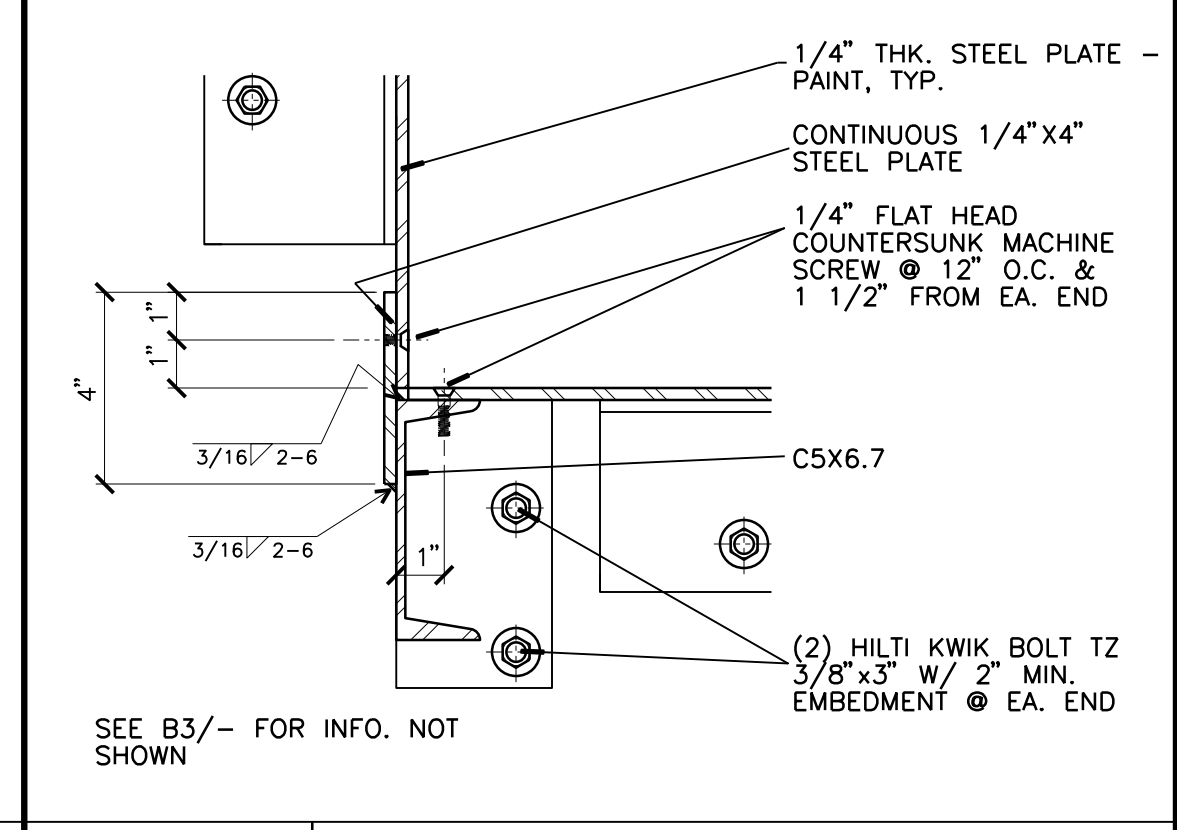
Sheet No.  
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OF



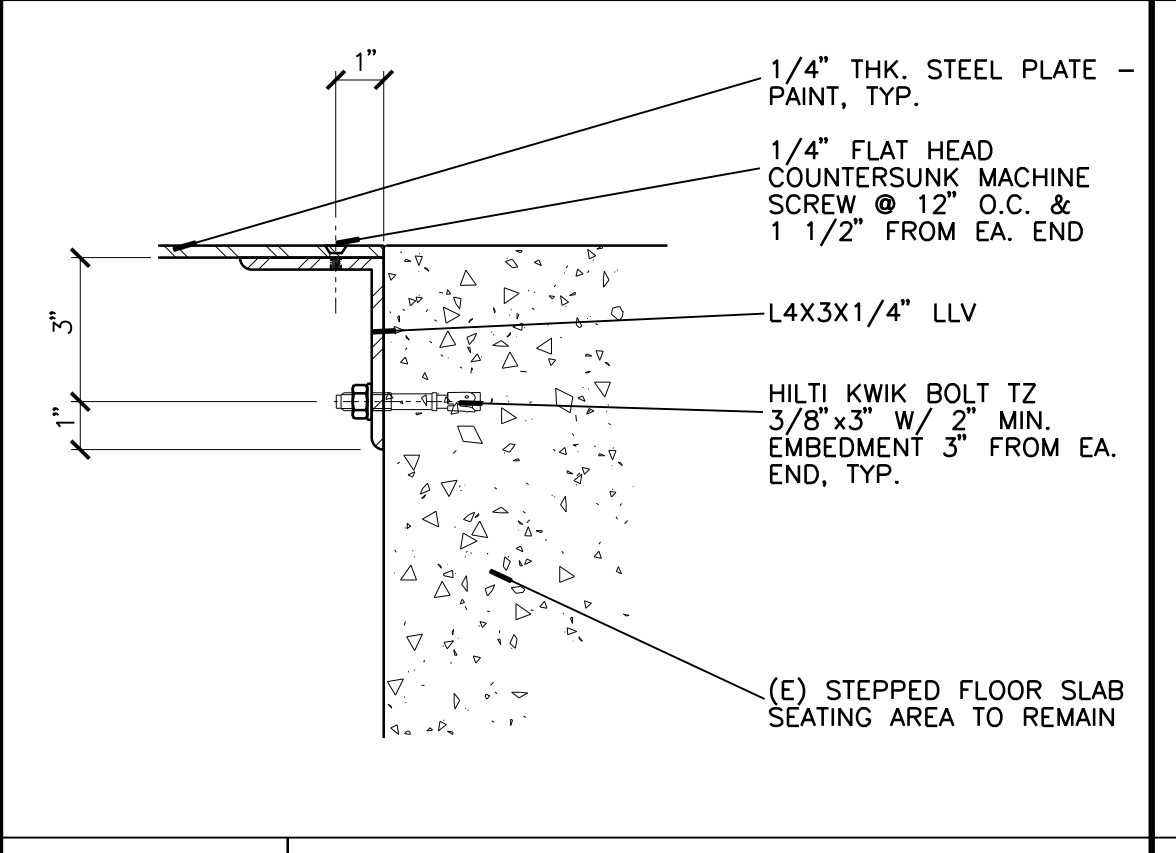
**C4** GUARDS AT (E) SPACE IN FRONT OF PROJECTION ROOM  
1" = 1'-0" VERTICAL SECTION VIEW - NORTH/SOUTH ELEVATION SIMILAR



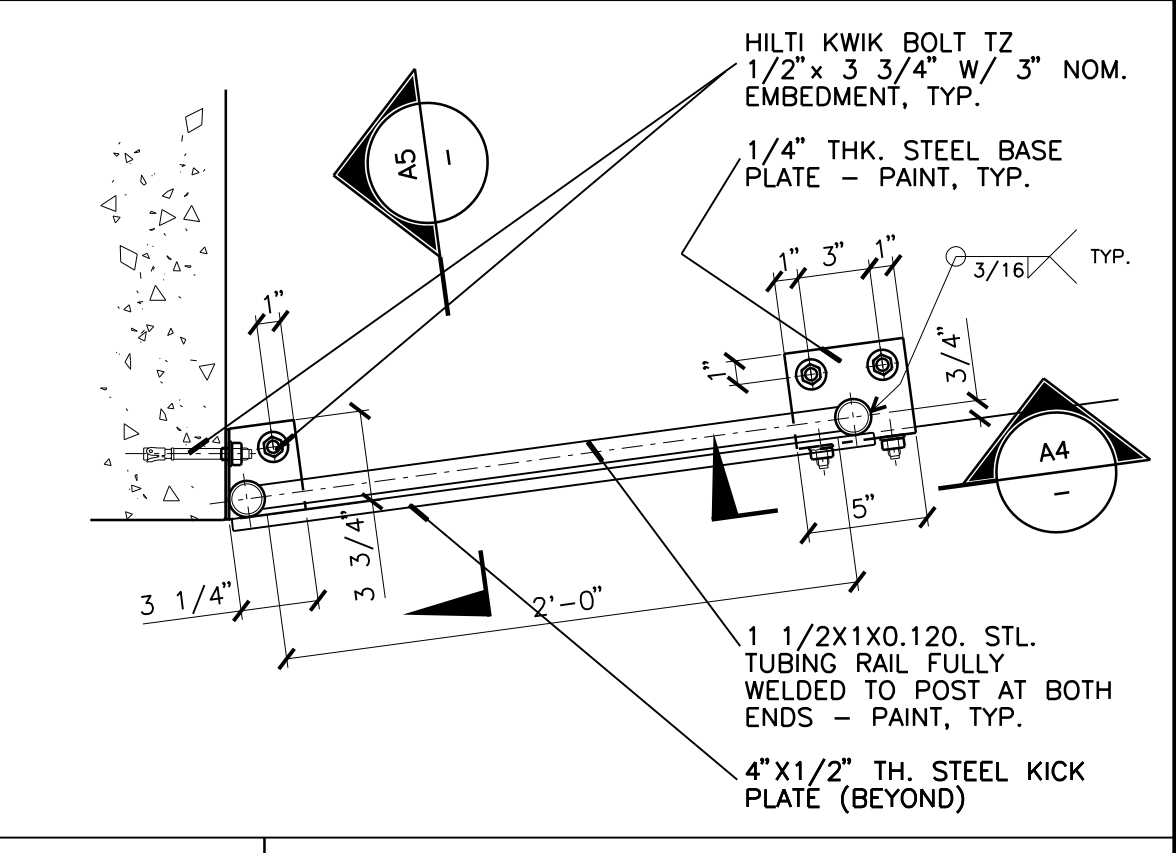
**D3** STEEL STEPPED FLOOR  
3" = 1'-0" ALTERNATE 01



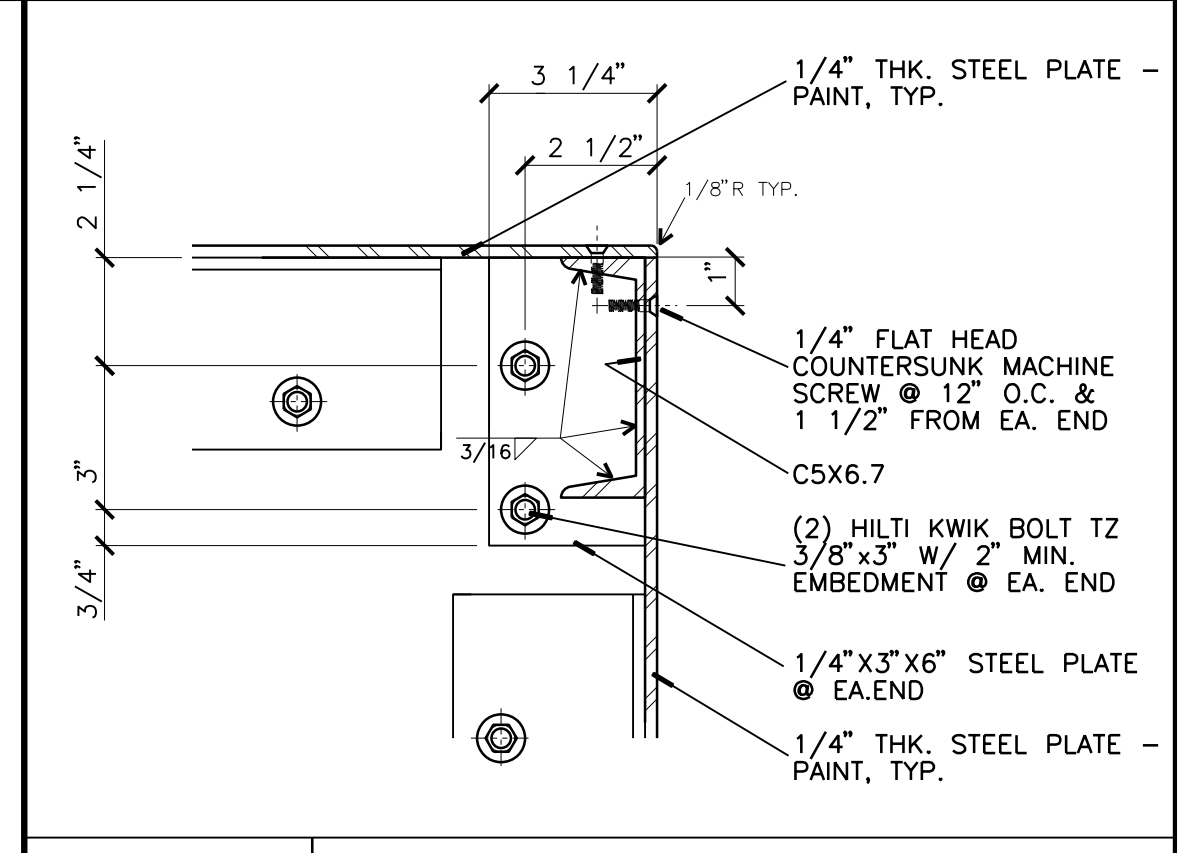
**C3** STEEL STEPPED FLOOR  
3" = 1'-0" ALTERNATE 01



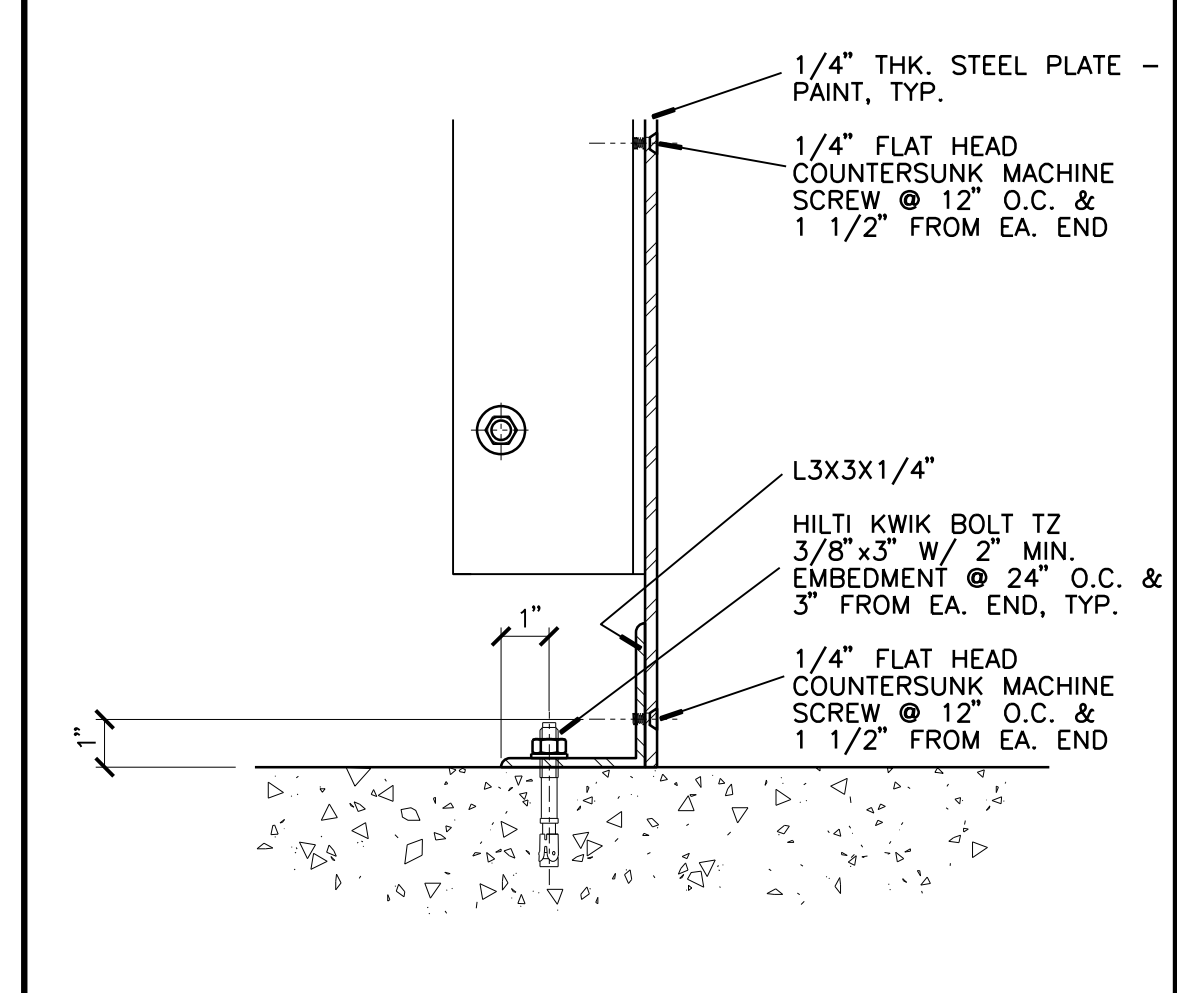
**B4** STEEL STEPPED FLOOR  
3" = 1'-0" ALTERNATE 01



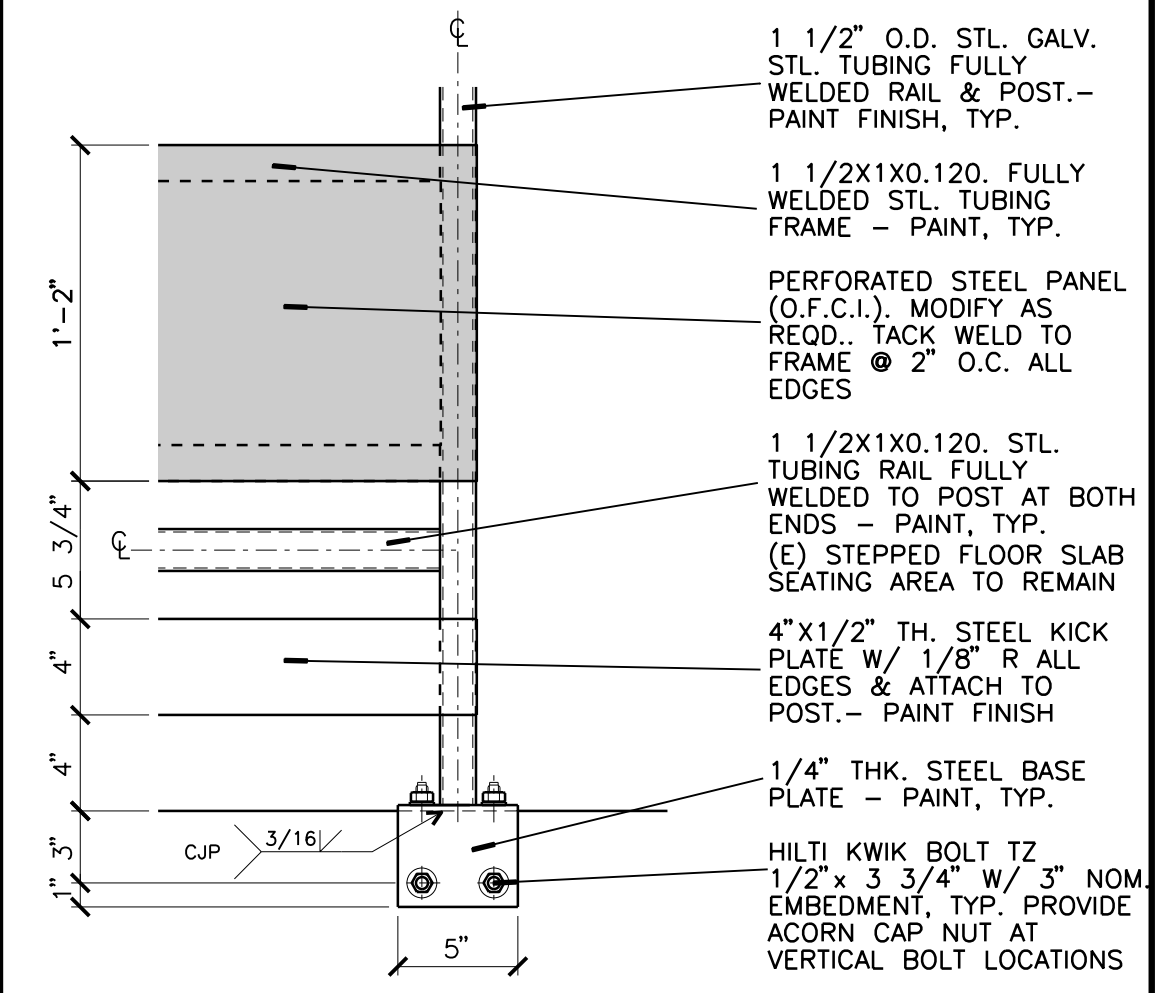
**B5** GUARDS MOUNTING PLATE  
1 1/2" = 1'-0" VERTICAL SECTION VIEW



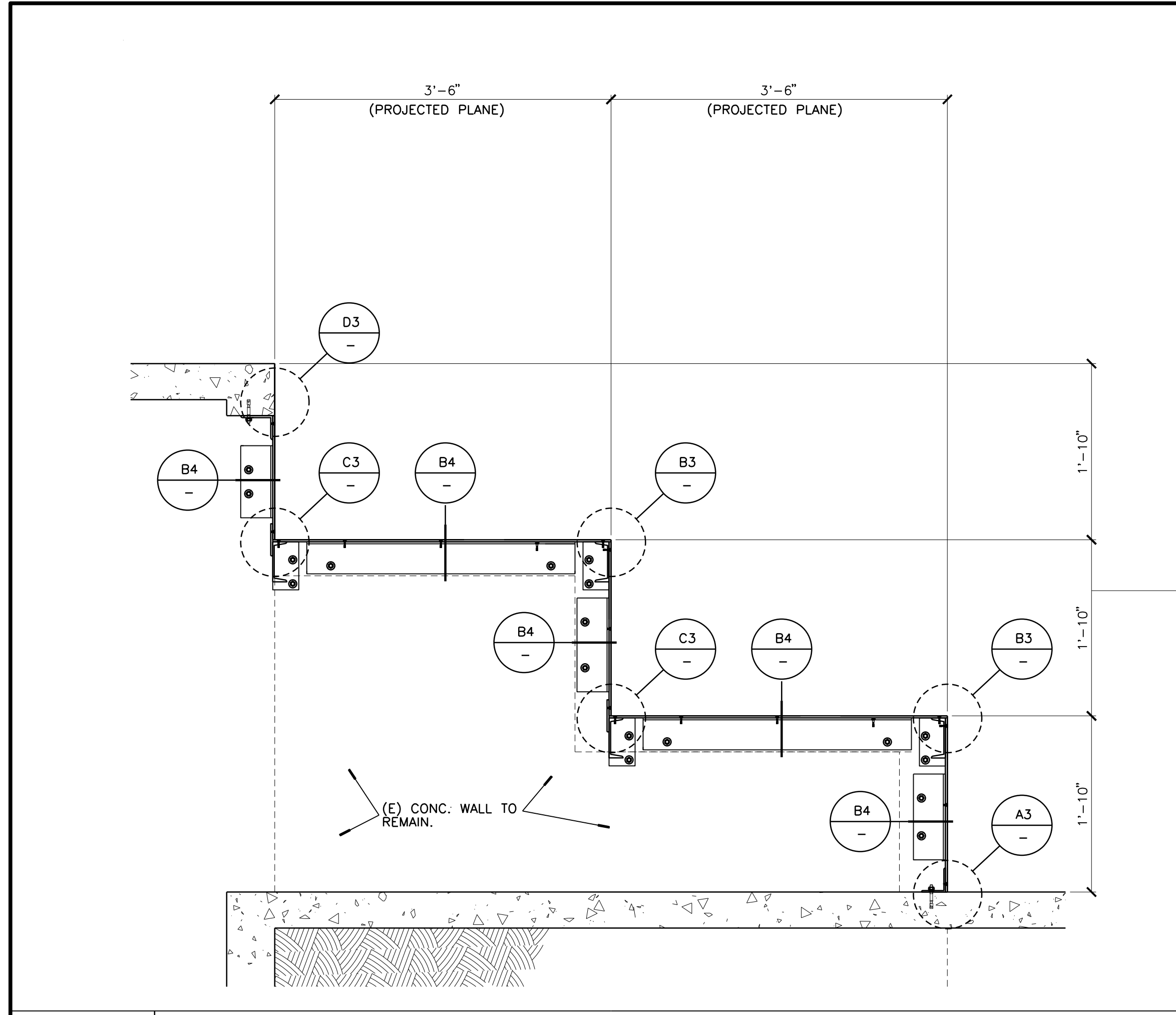
**B3** STEEL STEPPED FLOOR  
3" = 1'-0" ALTERNATE 01



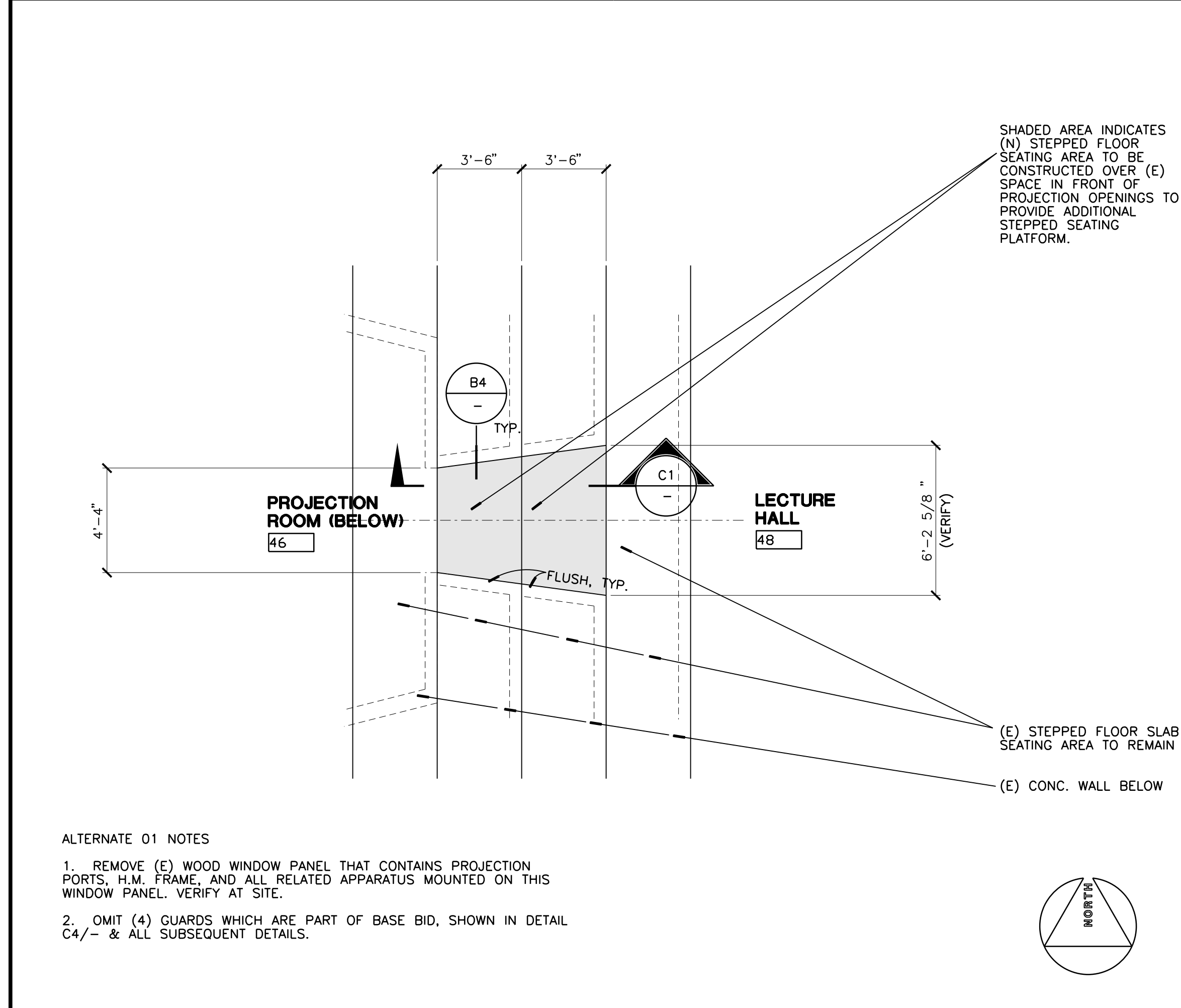
**A3** STEEL STEPPED FLOOR  
3" = 1'-0" ALTERNATE 01



**A4** GUARDS MOUNTING PLATE  
1 1/2" = 1'-0"



**C1** ADDITIONAL STEPPED SEATING FLO  
1" = 1'-0" ALTERNATE 01 - VERTICAL SECTION VIEW - NORTH/SOUTH SIMILAR



**A1** PARTIAL 1ST FLOOR PLAN - ADDITIONAL STEPPED SEATING FLOOR  
1/4" = 1'-0" ALTERNATE 01

ALTERNATE 01 NOTES  
1. REMOVE (E) WOOD WINDOW PANEL THAT CONTAINS PROJECTION PORTS, H.M. FRAME, AND ALL RELATED APPARATUS MOUNTED ON THIS WINDOW PANEL. VERIFY AT SITE.  
2. OMIT (4) GUARDS WHICH ARE PART OF BASE BID, SHOWN IN DETAIL C4/- & ALL SUBSEQUENT DETAILS.

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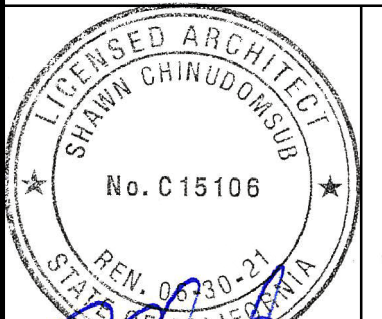
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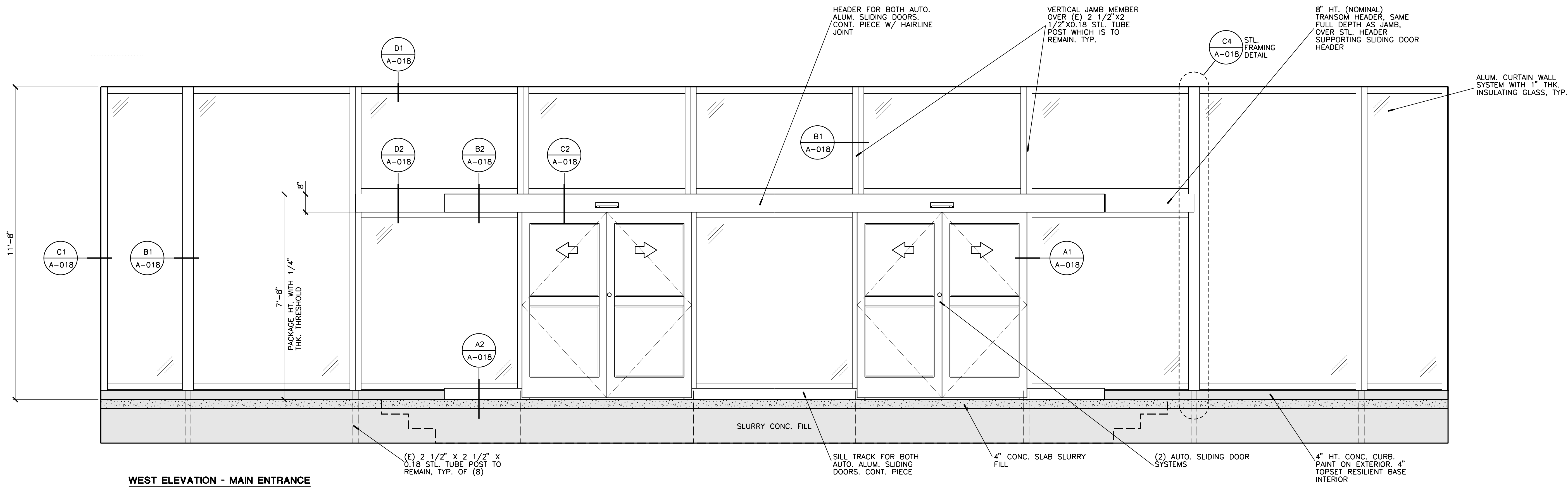


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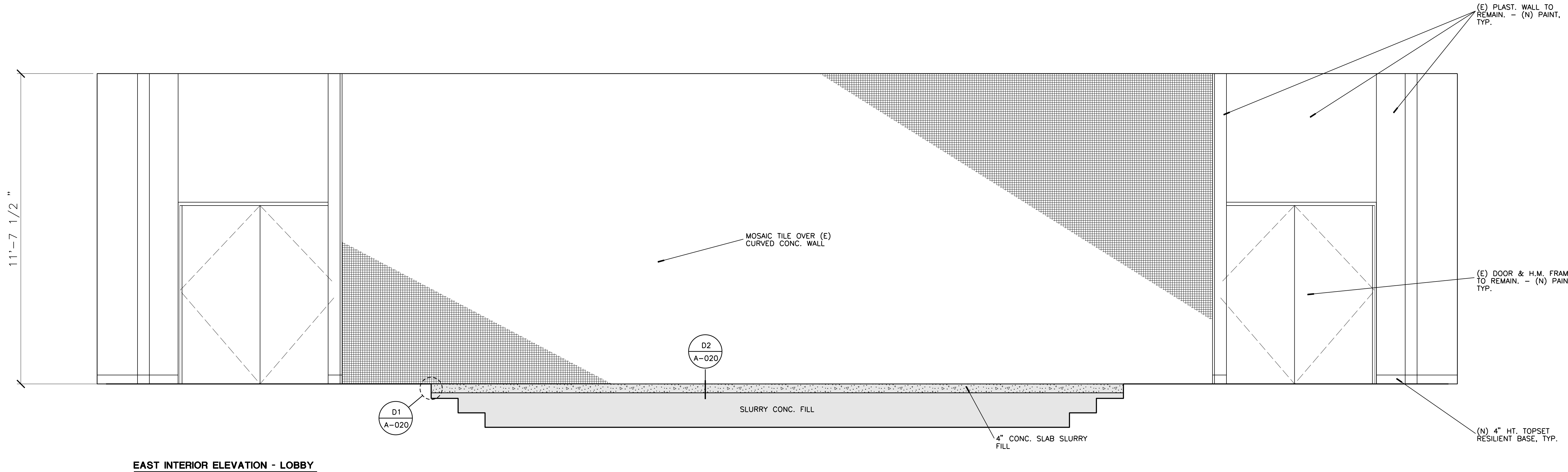
Architect's Stamp: Consultants Stamp:



WEST ELEVATION - MAIN ENTRANCE

C1 EXTERIOR ELEVATION - FRONT ENTRANCE

1/2" = 1'-0"



EAST INTERIOR ELEVATION - LOBBY

A1 INTERIOR ELEVATION - FOYER

1/2" = 1'-0"

PROJECT TITLE  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL  
CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

APPROVED  
DATE: 07/07/2020  
PROJECT: UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL  
DRAWING: EXT. & INT. ELEVATION  
DRAWN BY: J.D.  
CHECKED BY: S.C.  
DATE: 05/11/20

Consultants Data:

Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

UCR project manager  
SCOTT DONNEL

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Drawn by	J.D.	dd approval
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UCR project no.	957443	construction release
also number		

Drawing Name  
EXT. & INT. ELEVATION  
Sheet No.  
A-013  
OF

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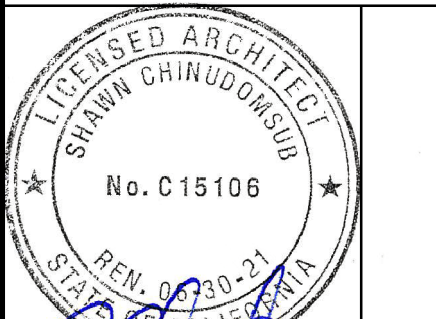
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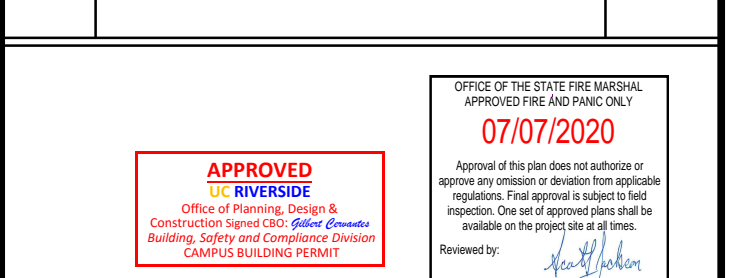
Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
**UCR**  
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**PHYSICS 2000 RENEWAL**  
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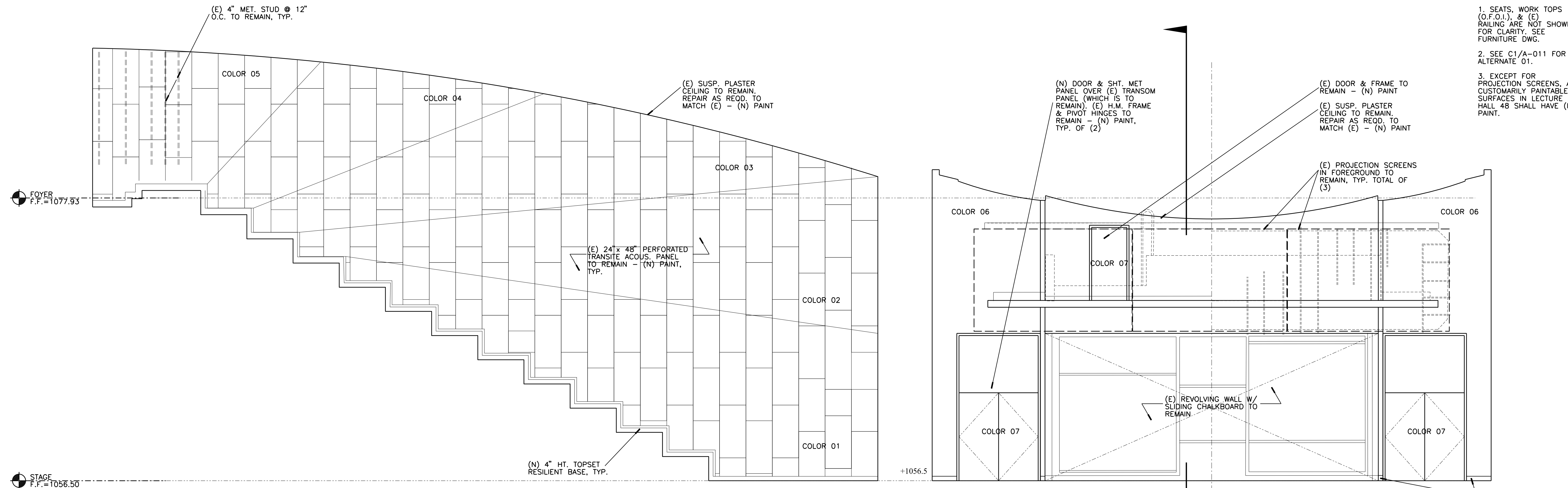
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**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

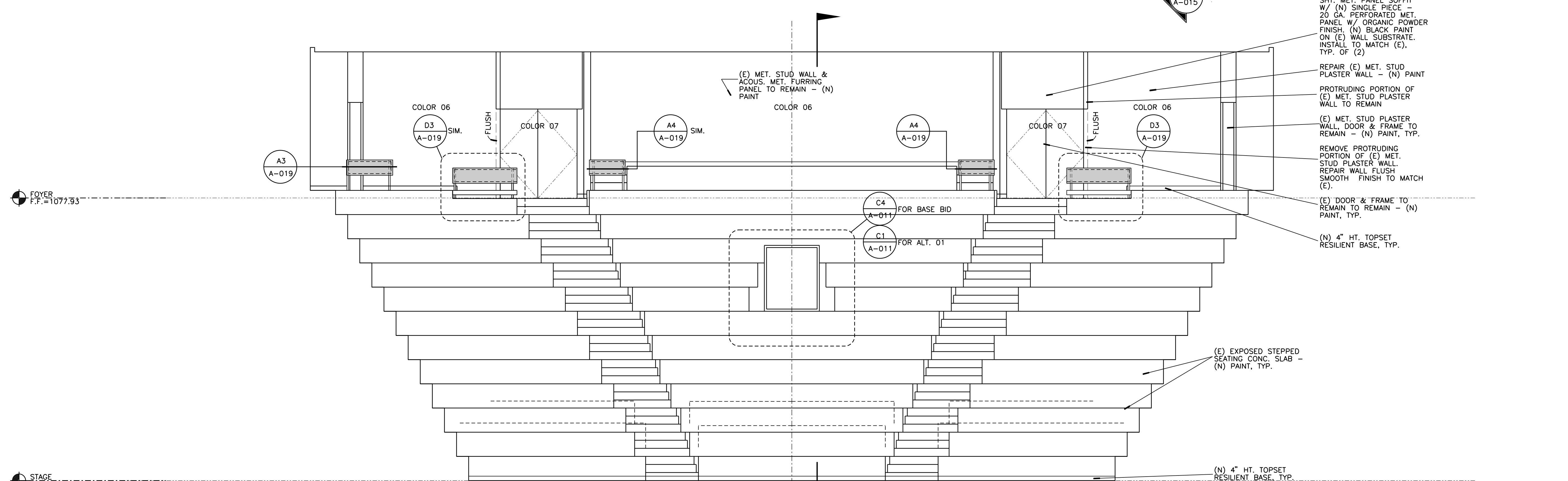
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Drawn by	J.D.	dd approval
Checked by	S.C.	cd approval
UCR project no.	957443	construction release
date number		05/11/20

Drawing Name  
**INTERIOR ELEVATION**  
 Sheet No.  
**A-014**  
 OF

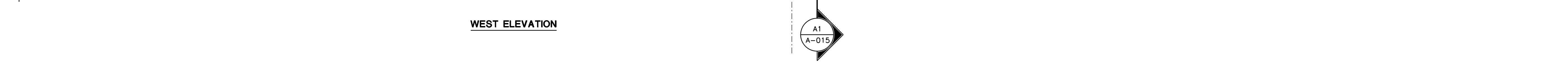
- NOTE:
- SEATS, WORK TOPS (O.F.O.I.), & (E) RAILING ARE NOT SHOWN FOR CLARITY. SEE FURNITURE DWG.
  - SEE C1/A-011 FOR ALTERNATE 01.
  - EXCEPT FOR PROJECTION SCREENS, ALL CUSTOMARILY PAINTABLE SURFACES IN LECTURE HALL 48 SHALL HAVE (N) PAINT.



**NORTH ELEVATION (SOUTH SIMILAR) EAST ELEVATION**



**WEST ELEVATION**



**A1**  
**INTERIOR ELEVATION - LECTURE HALL**  
 1/4" = 1'-0"

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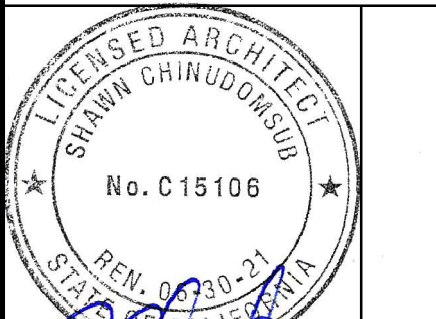
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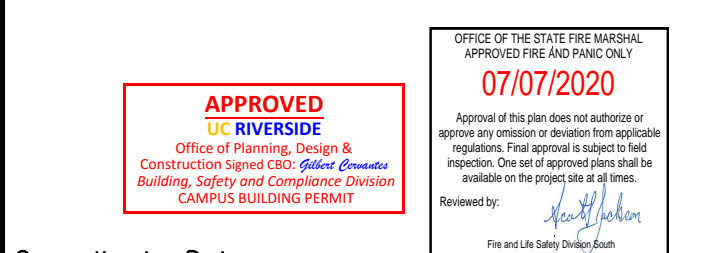
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Consultants Stamp:

PROJECT TITLE  
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**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**  
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REV #	DESCRIPTION	DATE



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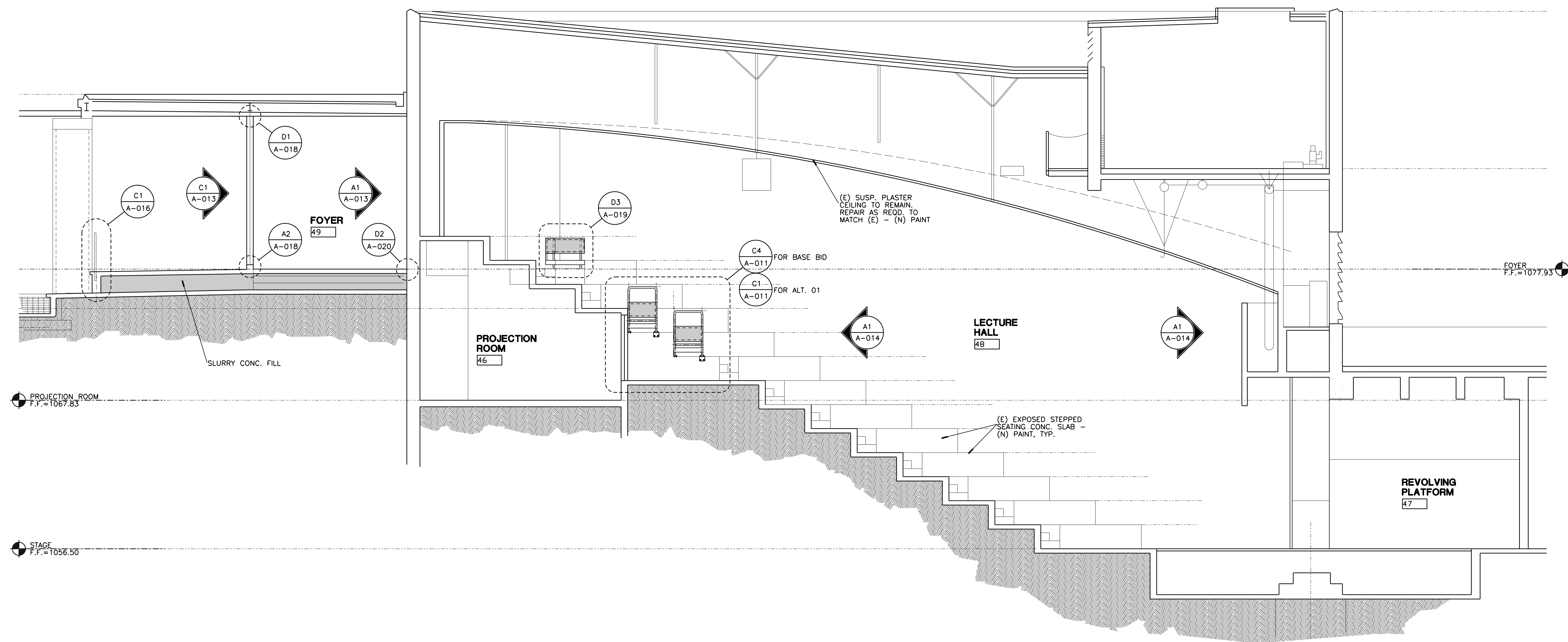
Project Title  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
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UCR project no.	957443	construction release
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Drawing Name  
**PARTIAL BUILDING SECTION**  
 Sheet No.  
**A-015**  
 OF

- NOTE:
1. SEATS, WORK TOPS (O.F.O.I.), & (E) RAILING ARE NOT SHOWN FOR CLARITY. SEE FURNITURE DWG.
  2. SEE C1/A-011 FOR ALTERNATE 01



**A1** PARTIAL BUILDING SECTION - LECTURE HALL & FOYER  
 1/4" = 1'-0"

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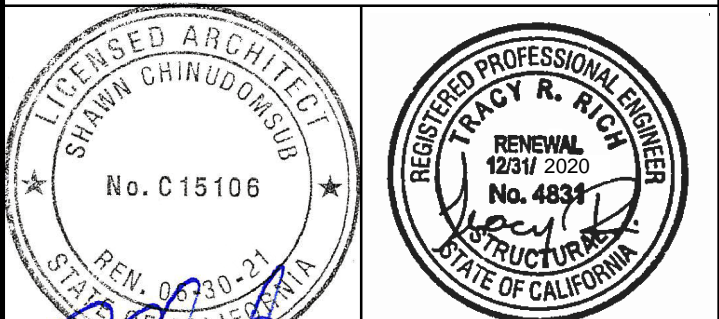


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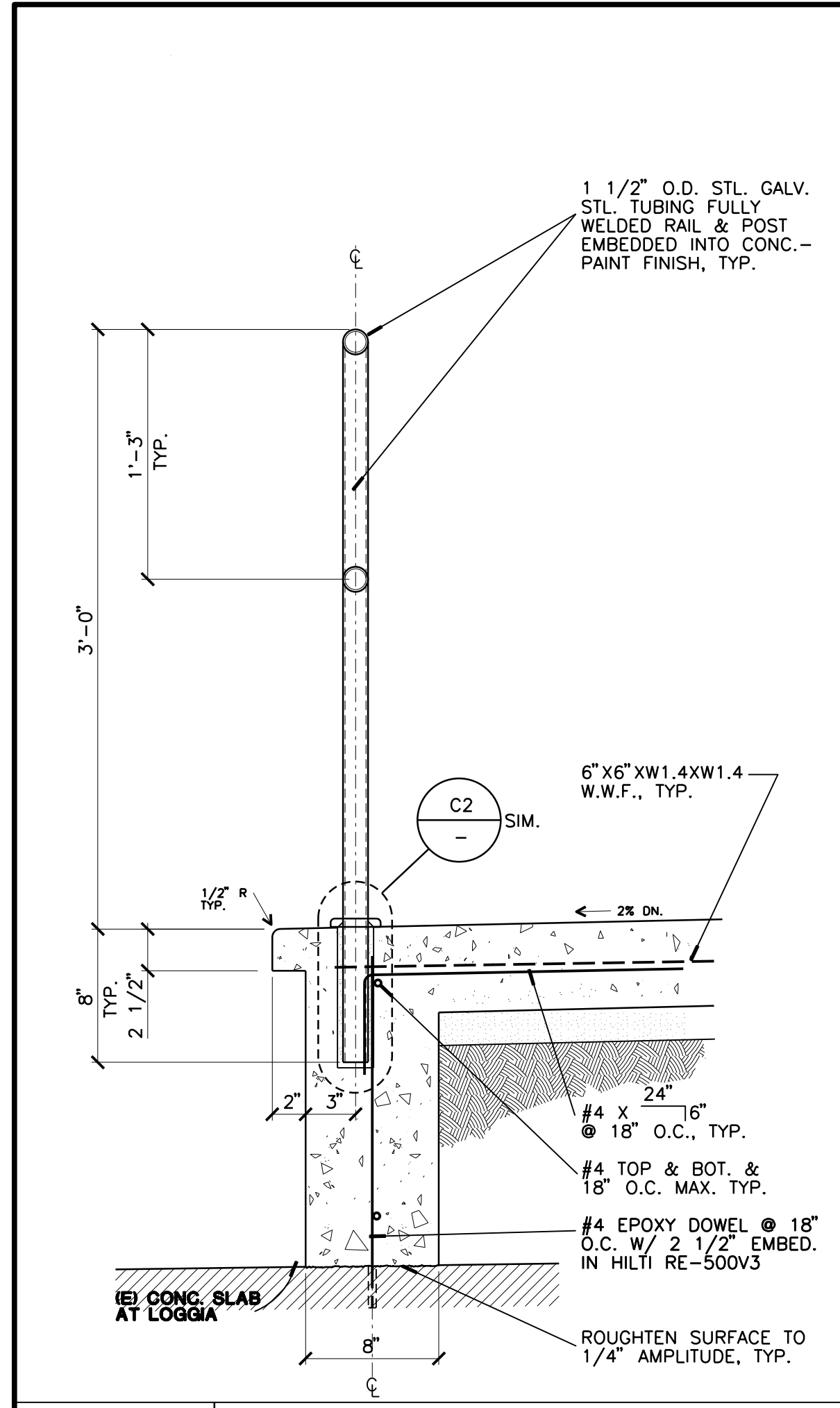


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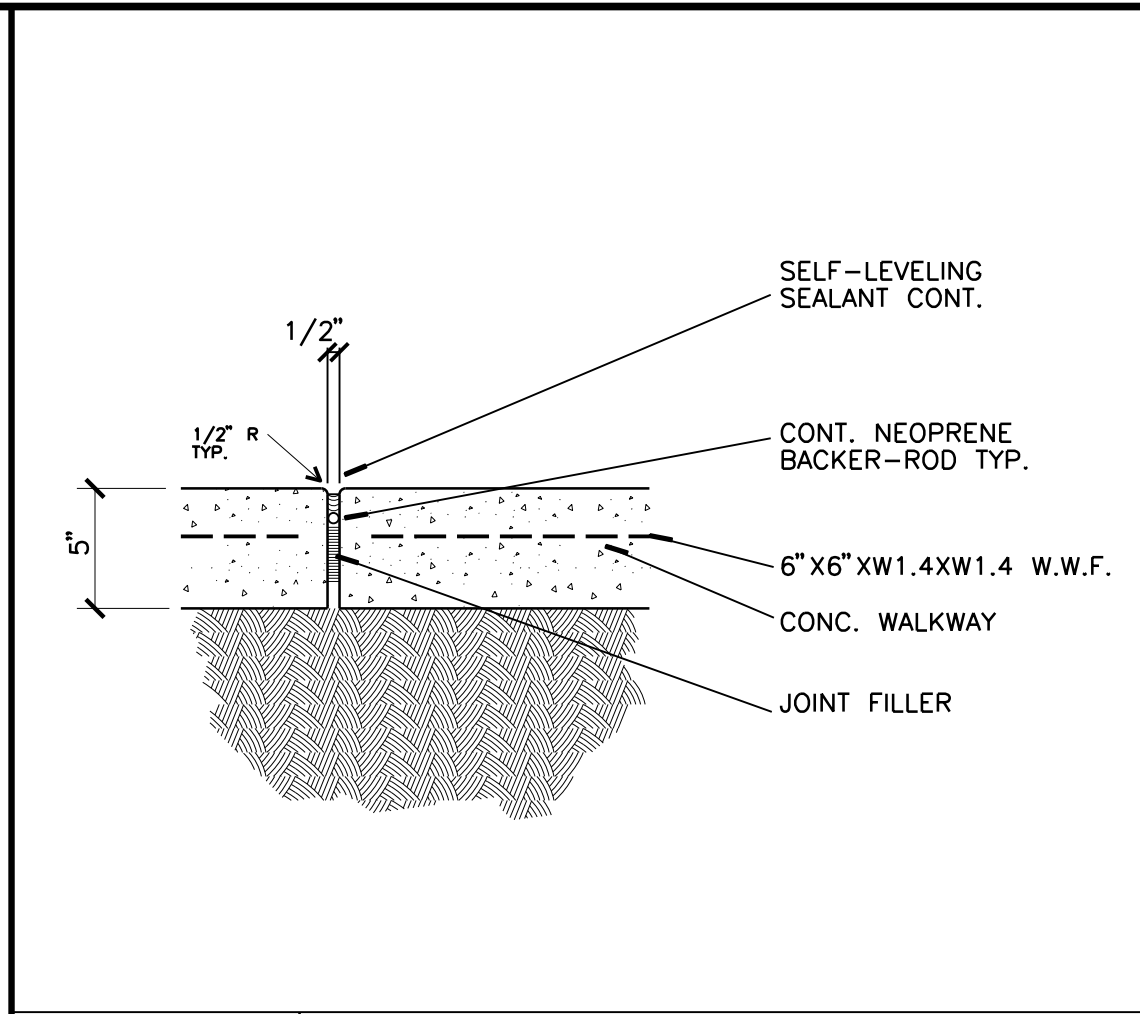
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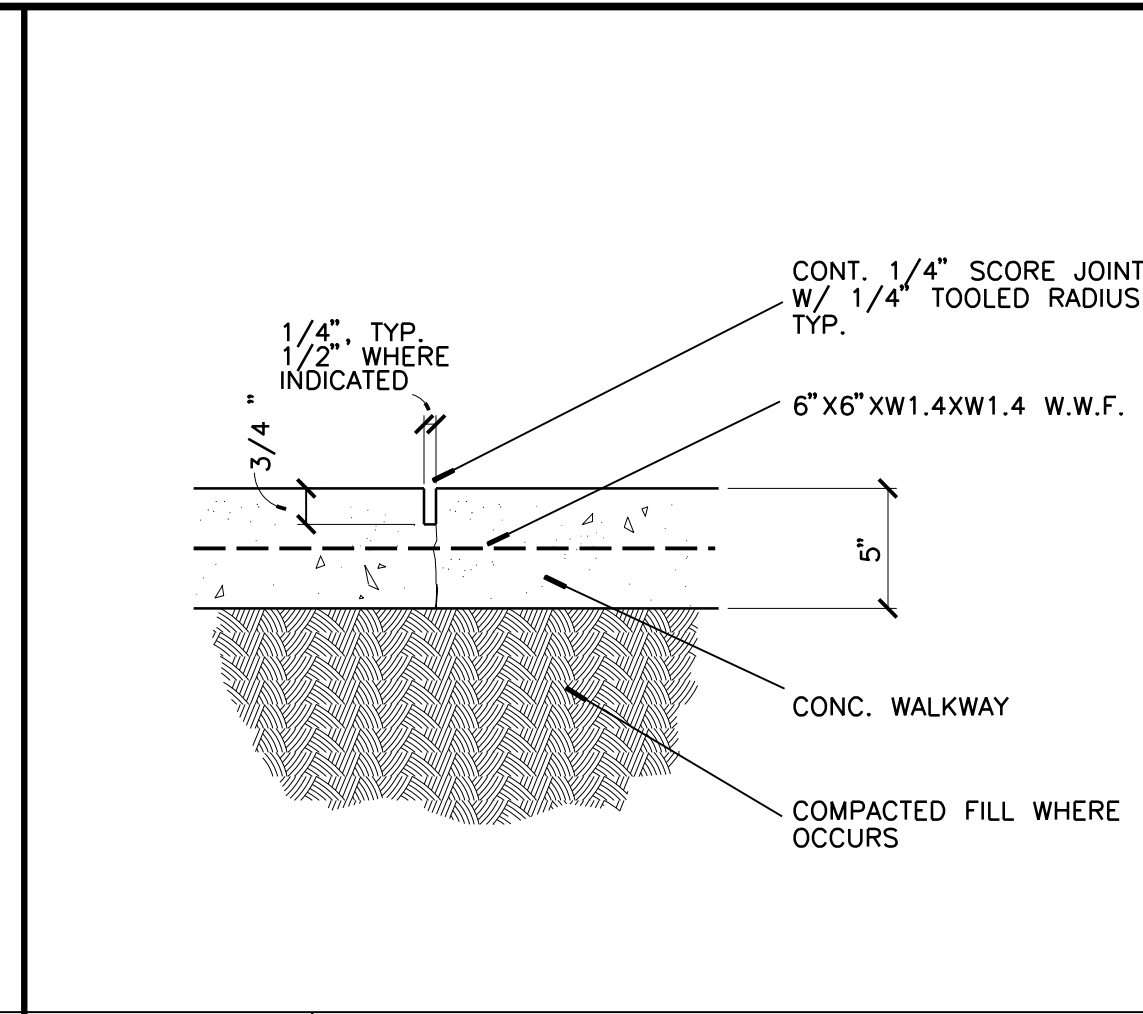
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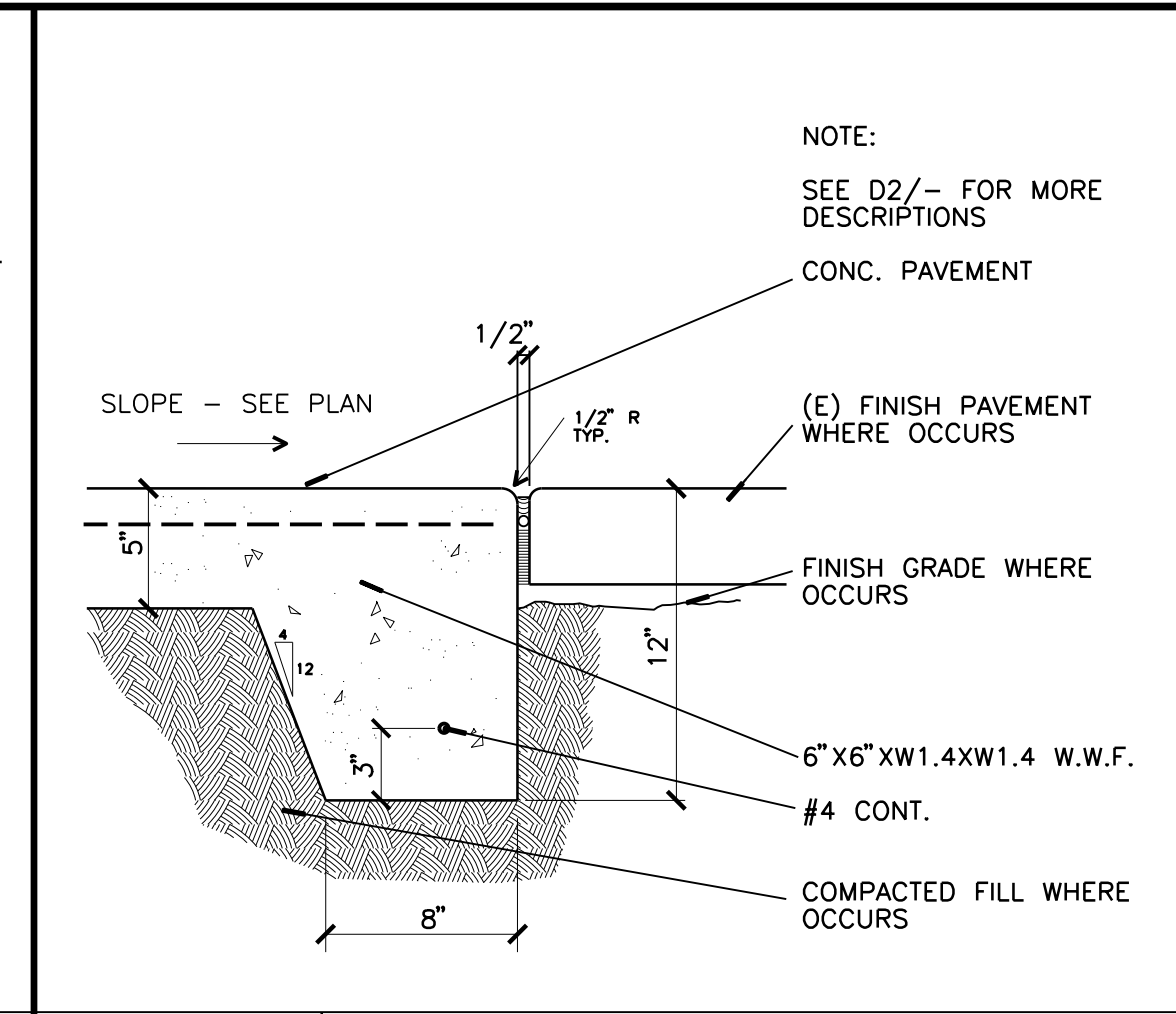
**C1** EDGE OF LOGGIA SLAB & RAILING  
1 1/2" = 1" - 0"



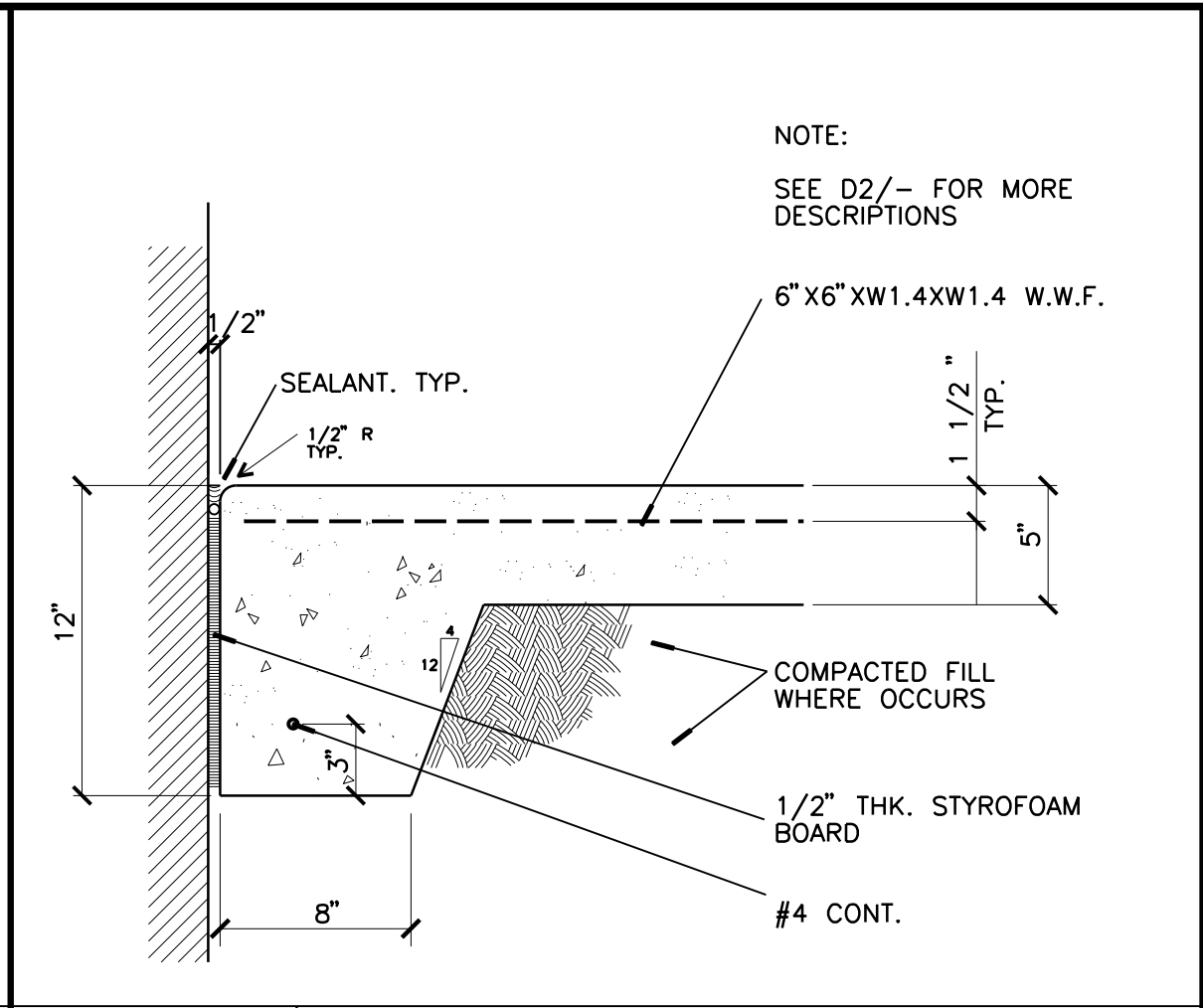
**D2** EXPANSION JOINT - TYPICAL  
1 1/2" = 1" - 0"



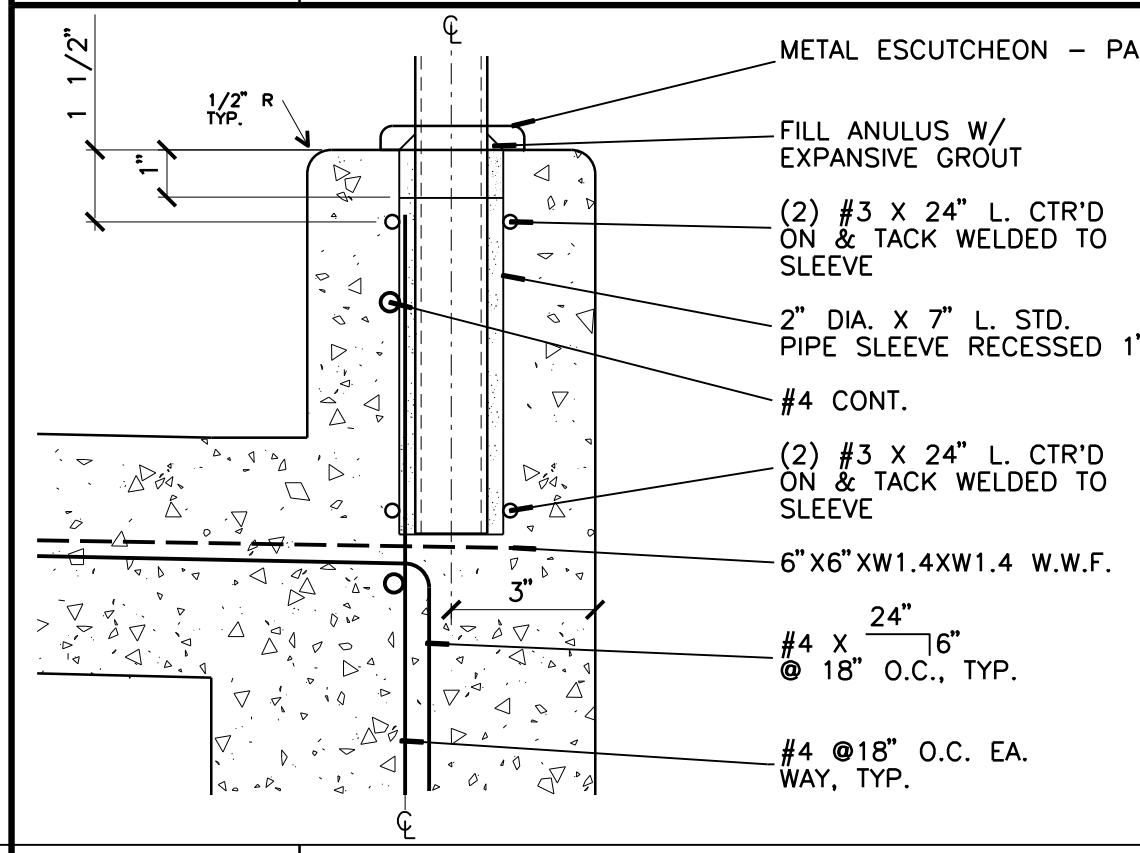
**D3** SCORED JOINT - TYPICAL  
1 1/2" = 1" - 0"



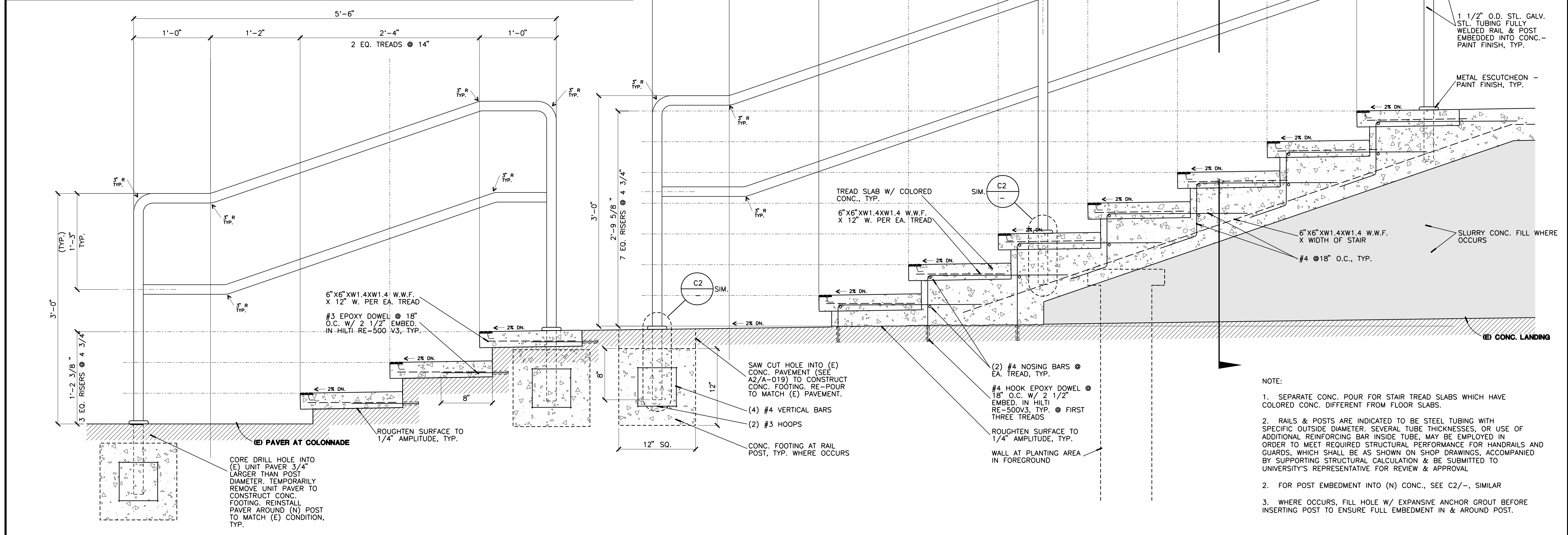
**D4** EDGE OF EXT. CONC. SLAB - TYP.  
1 1/2" = 1" - 0"



**D5** EDGE OF EXT. CONC. SLAB AT WALL  
1 1/2" = 1" - 0"



**C2** RAILING ANCHOR - TYPICAL  
3" = 1" - 0"



**A1** CROSS SECTION OF EXTERIOR FRONT MAIN STAIRS - BOTH STAIRS SIMILAR  
1 1/2" = 1" - 0"

PROJECT TITLE  
**UCR**  
**DMFI PROJECTS 2019 RENEWAL**  
**PHYSICS 2000 RENEWAL**  
 CONSTRUCTION DOCUMENTS

REVISIONS		
REV #	DESCRIPTION	DATE

APPROVED  
UCR RIVERSIDE  
Office of Planning, Design & Construction Support  
Building, Safety and Compliance Division  
CLAYTON BUILDING PERMIT

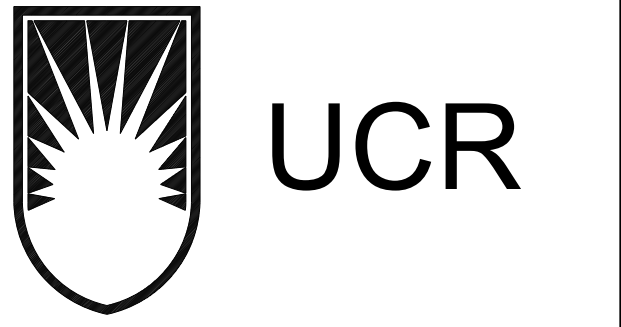
Consultants Data:

Project Title	UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL		
UCR project manager	SCOTT DONNEL		
Scale	AS NOTED	sd approval	
Drawn by	J.D.	jd approval	
Checked by	S.C.	cd approval	05/11/20
UCR project no.	957443	construction release	
Sheet No.	SECTION & DETAILS A-016 OF		

- NOTE:
- SEPARATE CONC. POUR FOR STAIR TREAD SLABS WHICH HAVE COLORED CONC. DIFFERENT FROM FLOOR SLABS.
  - RAILS & POSTS ARE INDICATED TO BE STEEL TUBING WITH SPECIFIC OUTSIDE DIAMETER, SEVERAL TUBE THICKNESSES, OR USE OF ADDITIONAL REINFORCING BAR INSIDE TUBE. MAY BE EMPLOYED IN ORDER TO MEET REQUIRED STRUCTURAL PERFORMANCE FOR HANDRAILS AND GUARDS, WHICH SHALL BE AS SHOWN ON SHOP DRAWINGS, ACCOMPANIED BY SUPPORTING STRUCTURAL CALCULATION & BE SUBMITTED TO UNIVERSITY'S REPRESENTATIVE FOR REVIEW & APPROVAL.
  - WHERE OCCURS, FILL HOLE W/ EXPANSIVE ANCHOR GROUT BEFORE INSERTING POST TO ENSURE FULL EMBEDMENT IN & AROUND POST.

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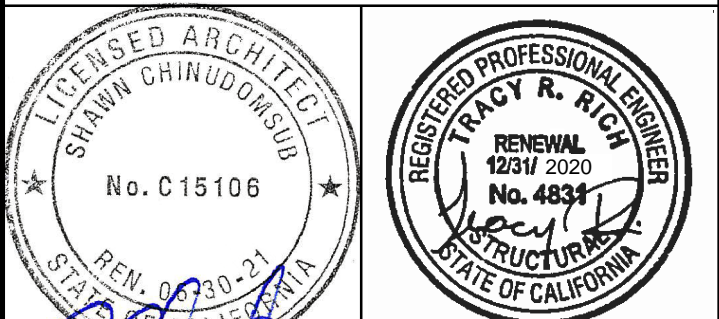


OFFICE OF ARCHITECTS & ENGINEERS  
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RIVERSIDE, CA. 92507  
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Institutional Designs & Architectural Services  
3903 10th Street, Riverside, CA. 92501-3521  
Tel: (951) 342-3135 Fax: (951) 342-3137

Architect's Data:



Architect's Stamp: [Signature] Consultants Stamp: [Signature]

PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**  
CONSTRUCTION DOCUMENTS

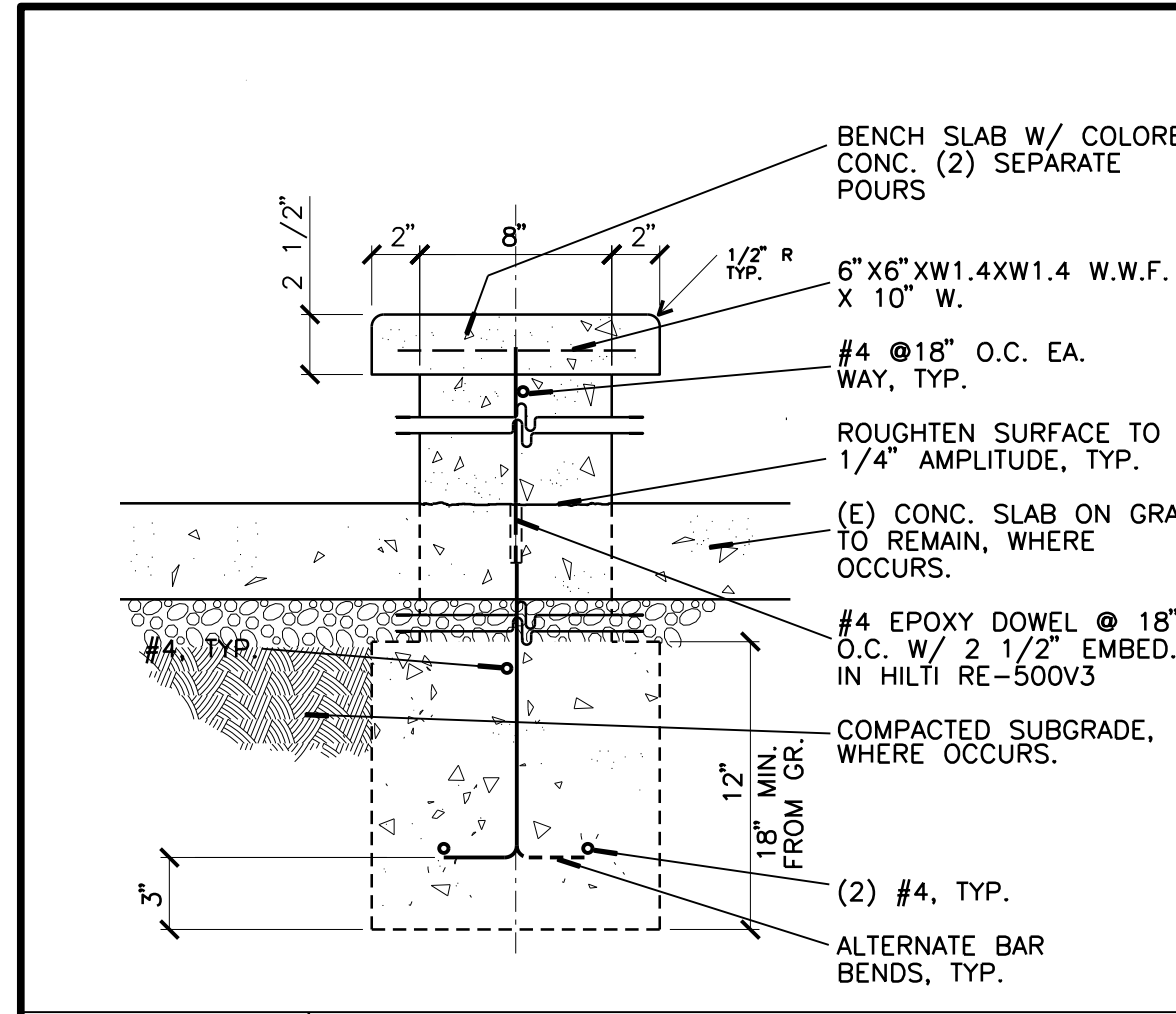
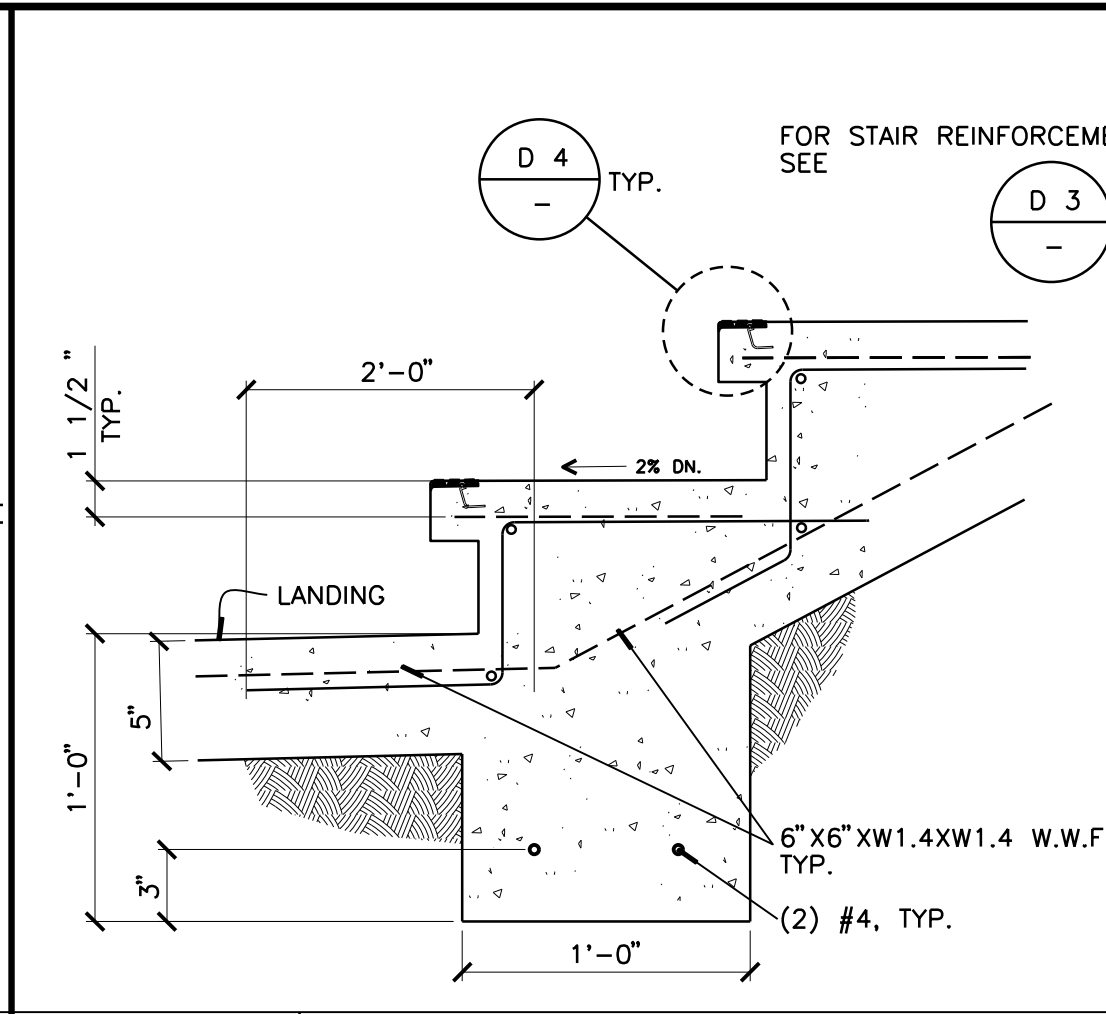
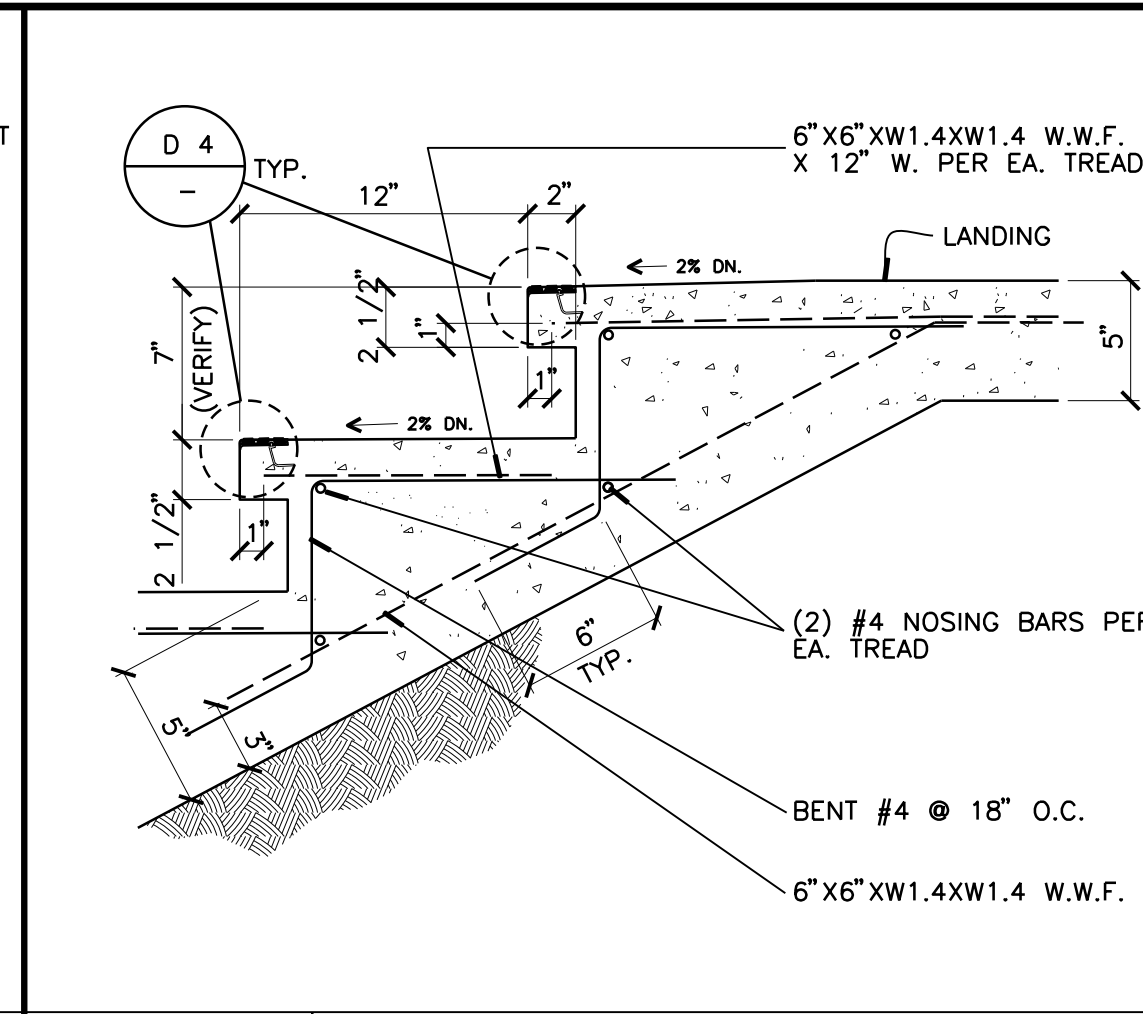
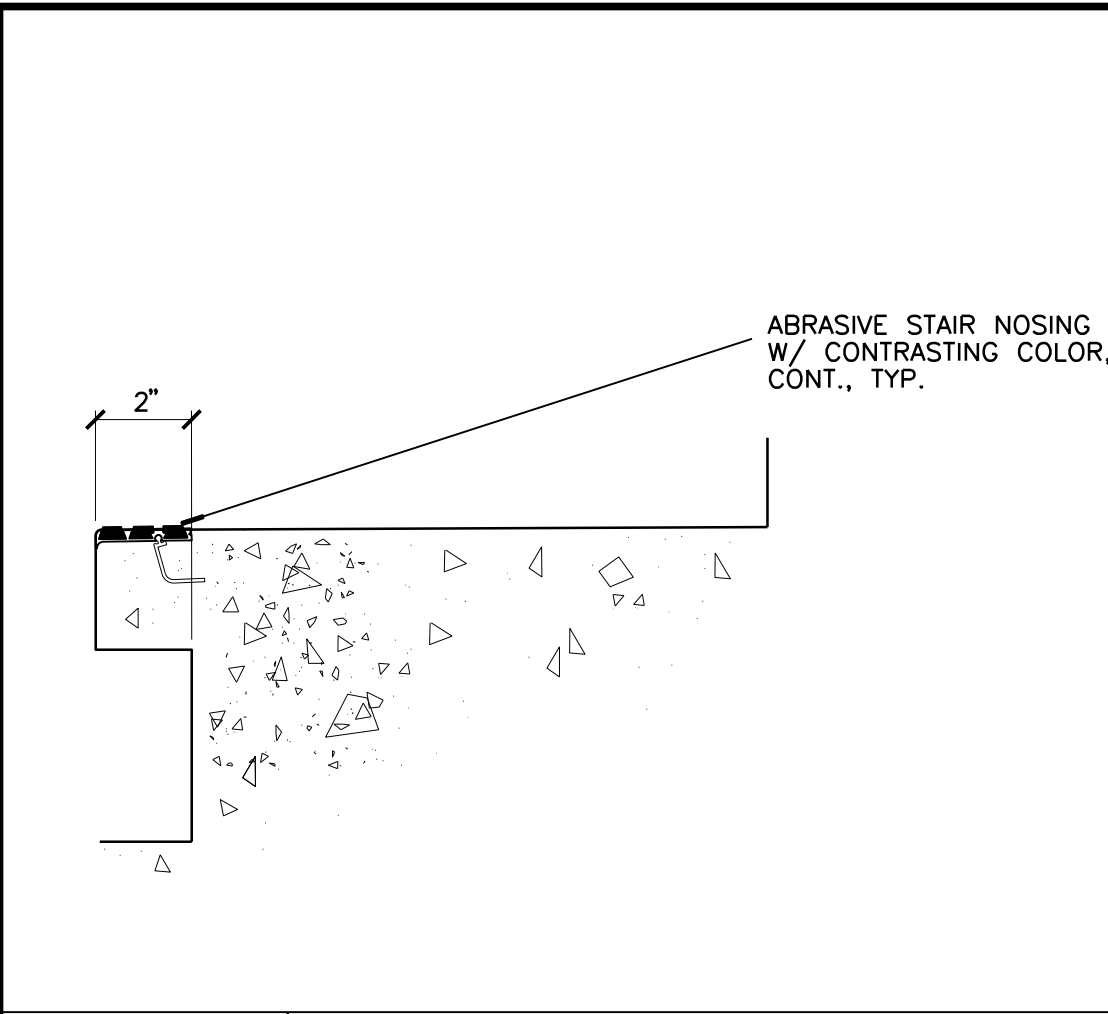
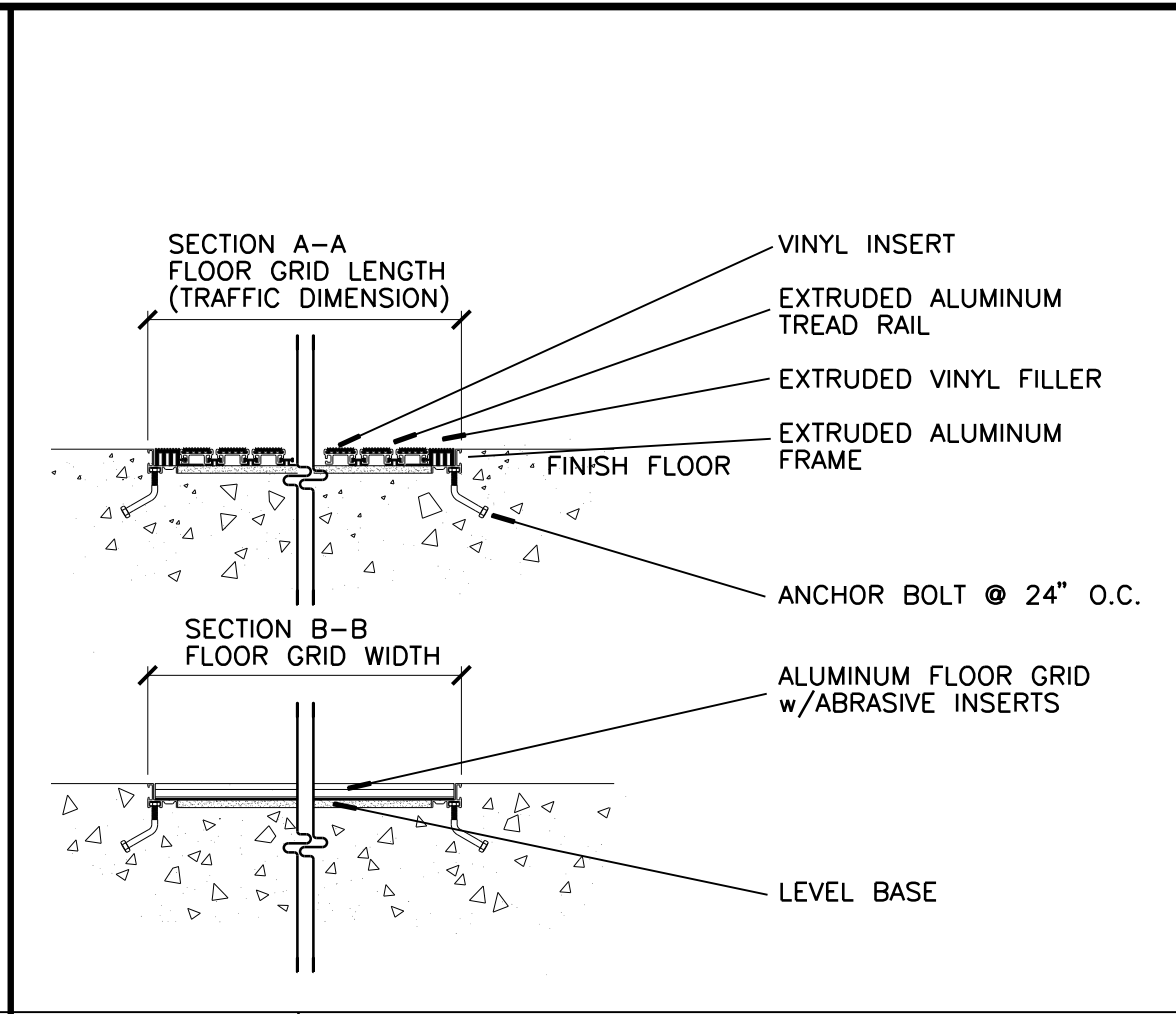
REVISIONS		
REV #	DESCRIPTION	DATE

APPROVED  
07/07/2020  
OFFICE OF THE STATE FIRE MARSHAL  
APPROPRIATE AND PAID ONLY

Consultants Data:  
Project Title  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**

UCR project manager <b>SCOTT DONNEL</b>	
scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval
UCR project no. 957443	05/11/20
050 number	release

Drawing Name: SECTION & DETAILS  
Sheet No.: A-017 OF



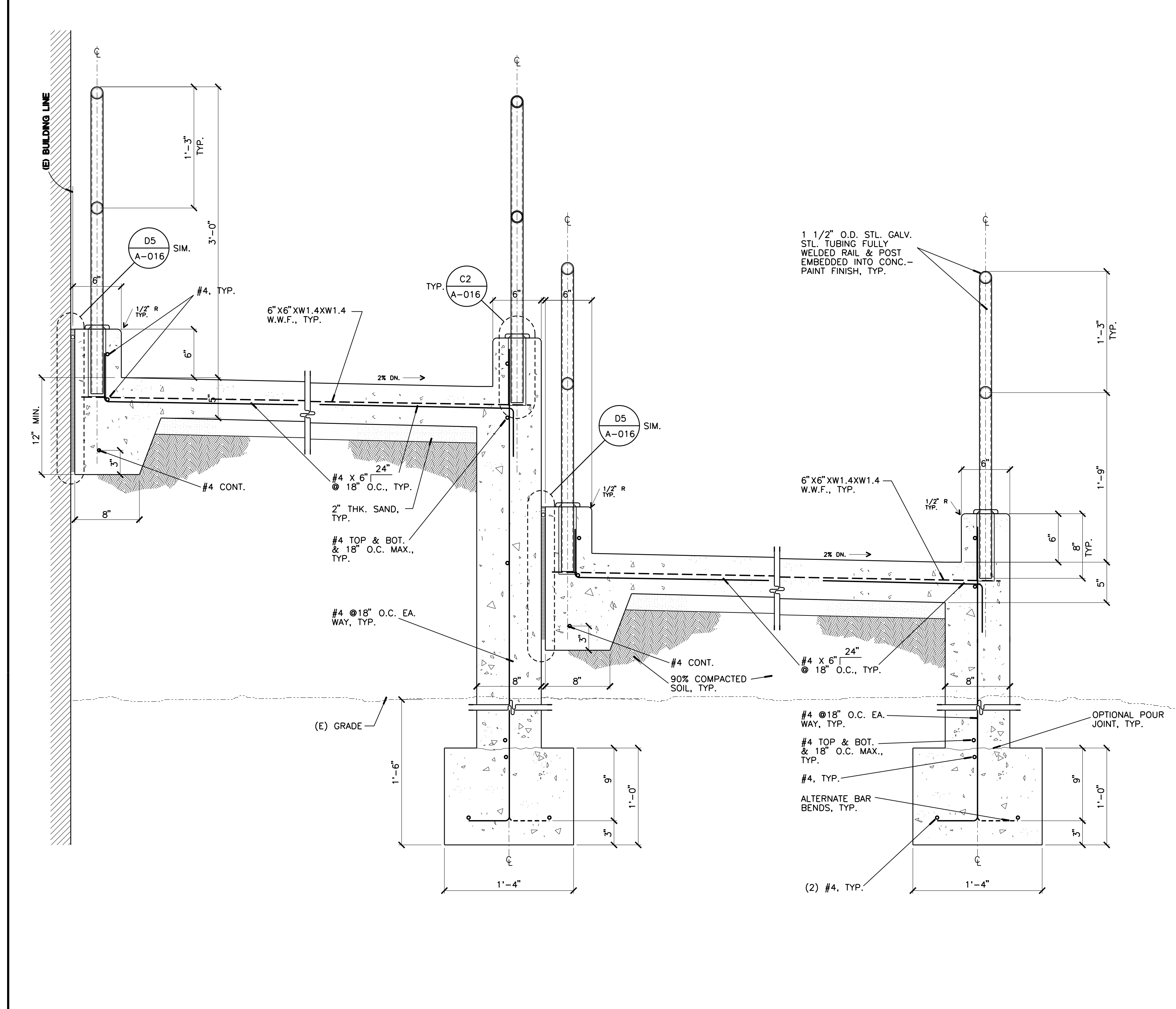
**D5** RECESSED FLOOR MAT  
1 1/2" = 1'-0"

**D4** STAIR NOSING - TYP.  
1 1/2" = 1'-0"

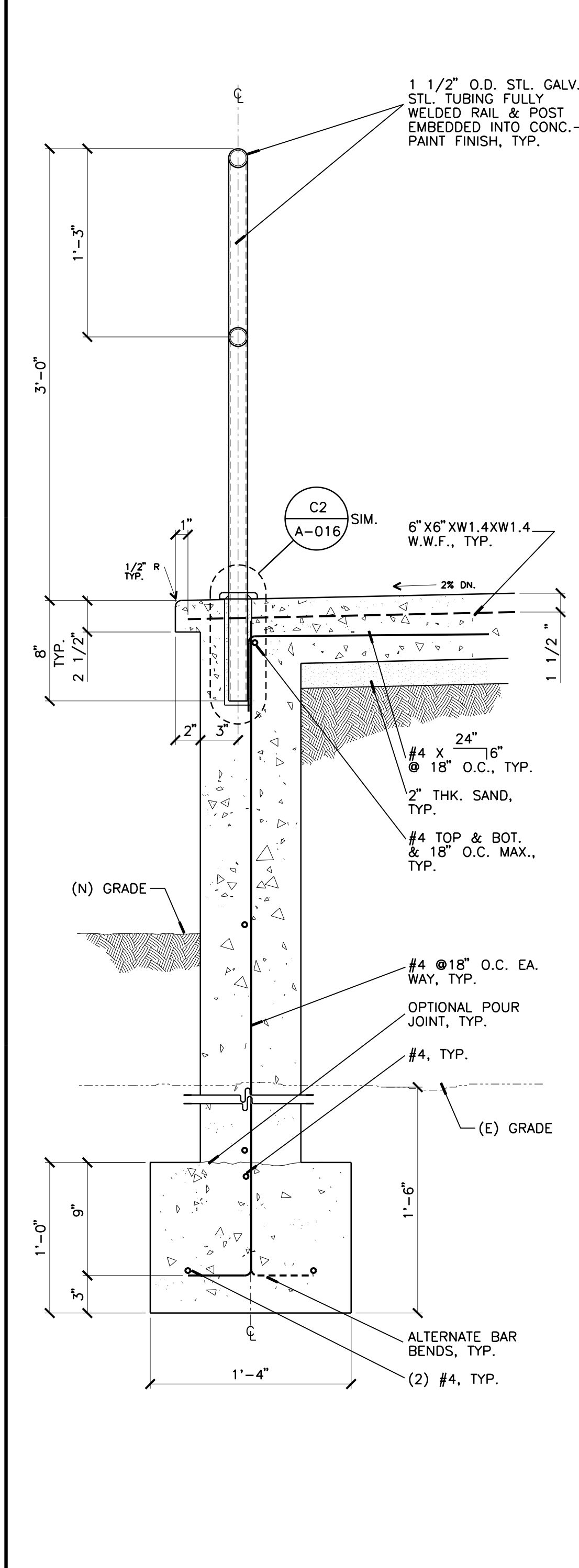
**D3** EXTERIOR STAIR  
1 1/2" = 1'-0"

**D2** EXTERIOR STAIR  
1 1/2" = 1'-0"

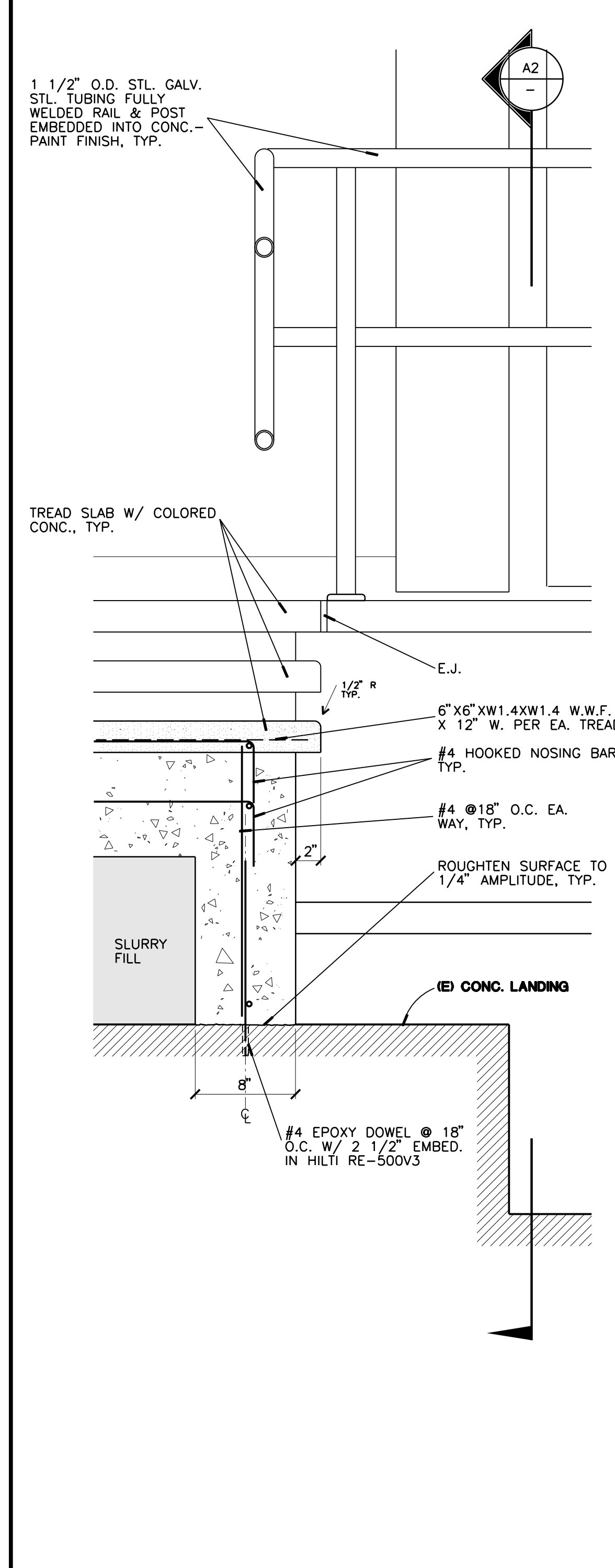
**D1** WALL AT PLANTER BOX  
1 1/2" = 1'-0"



**A3** CROSS SECTION AT RAMP  
1 1/2" = 1'-0"



**A2** SECTION OF TOP LANDING AT RAMP  
1 1/2" = 1'-0"



**A1** SECTION OF MAIN STAIRS  
1 1/2" = 1'-0"



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Architect's Data:  
LICENSED ARCHITECT  
SHAWN GRINDGARDSDOT  
No. C15106  
REGISTERED PROFESSIONAL ENGINEER  
RENEWAL 12/31/2020  
No. 4834  
STATE OF CALIFORNIA  
Consultants Stamp:

PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**  
CONSTRUCTION DOCUMENTS

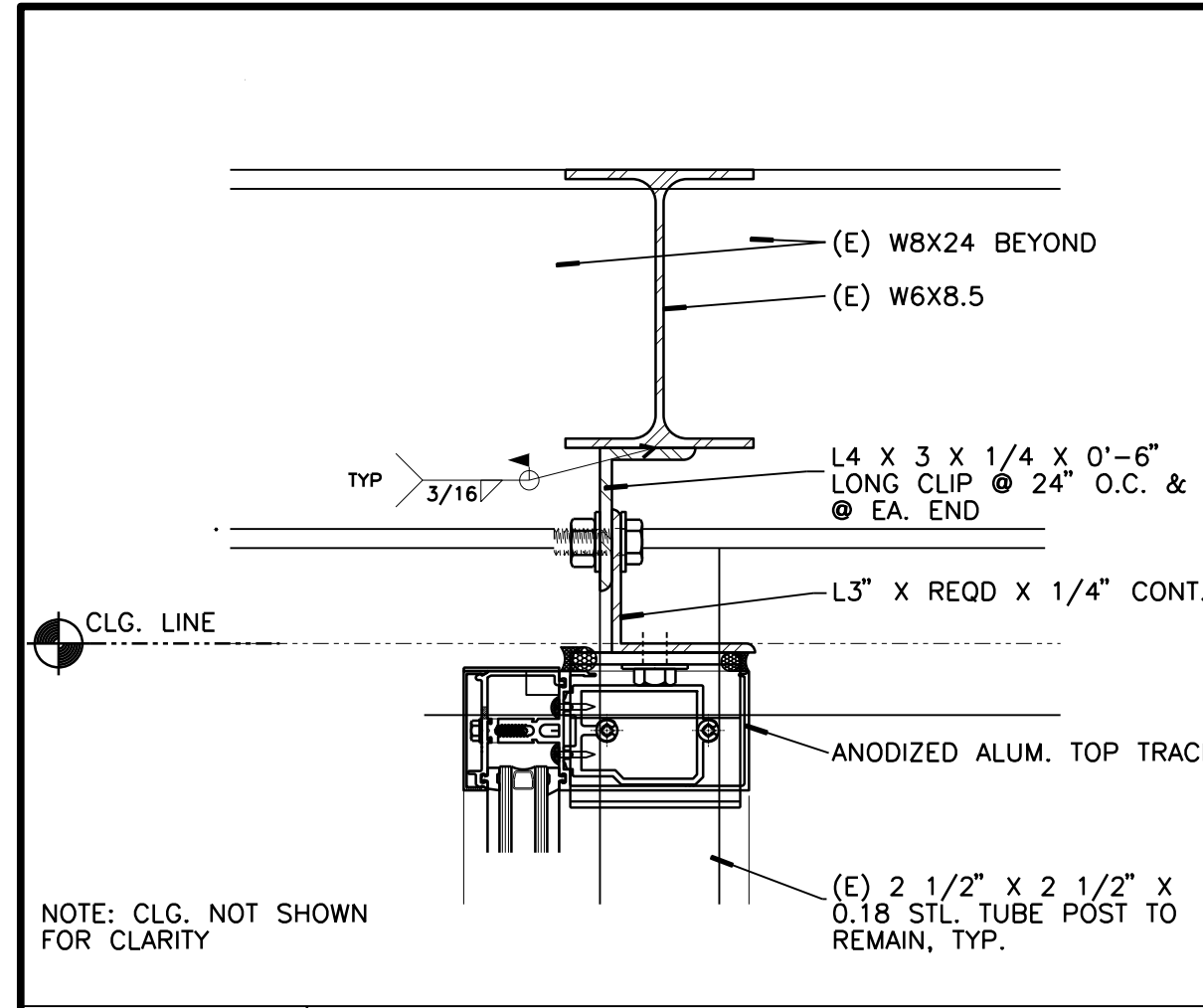
REVISIONS

REV #	DESCRIPTION	DATE

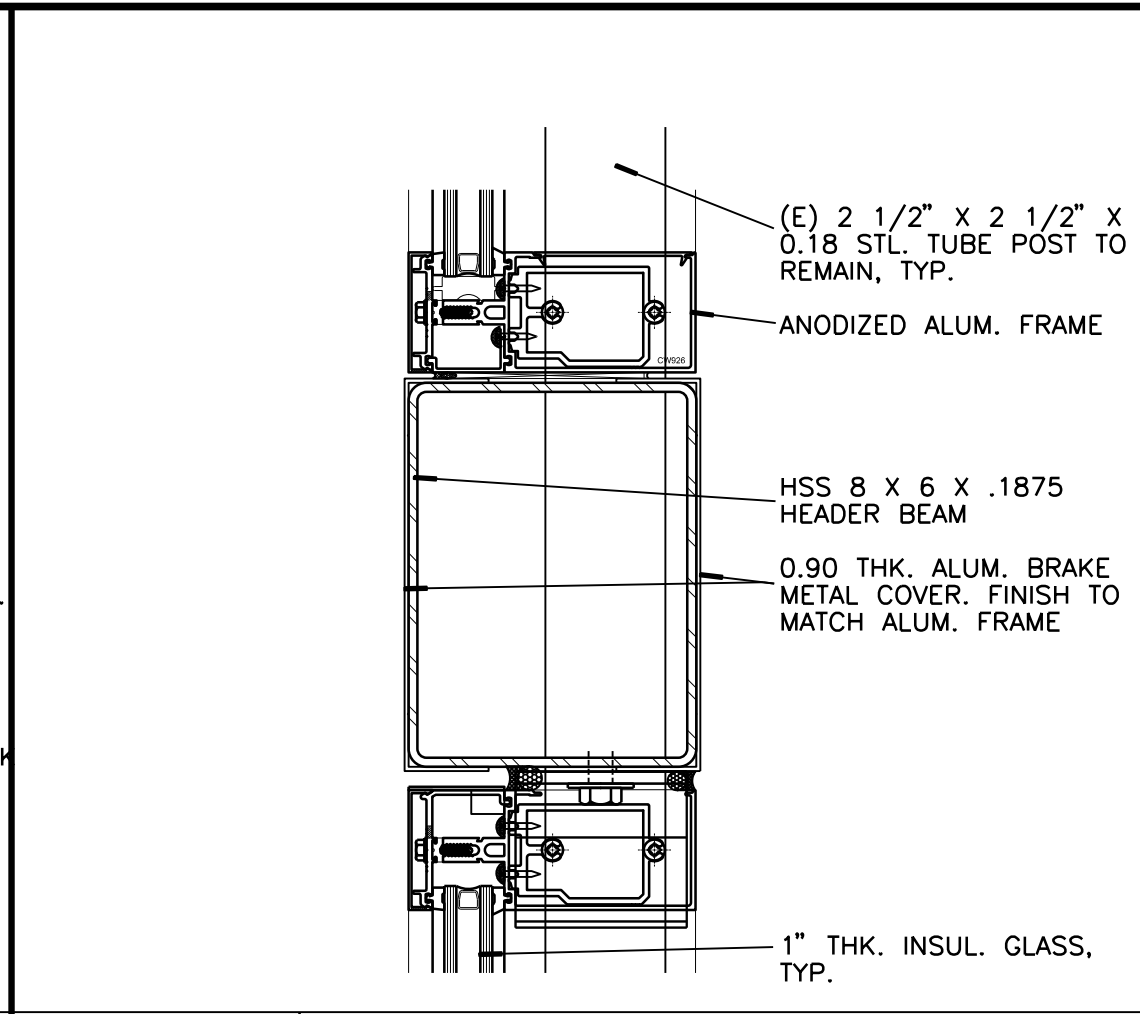
APPROVED  
DATE: 07/07/2020  
OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FOR FIRE AND PAUC ONLY

Consultants Data:

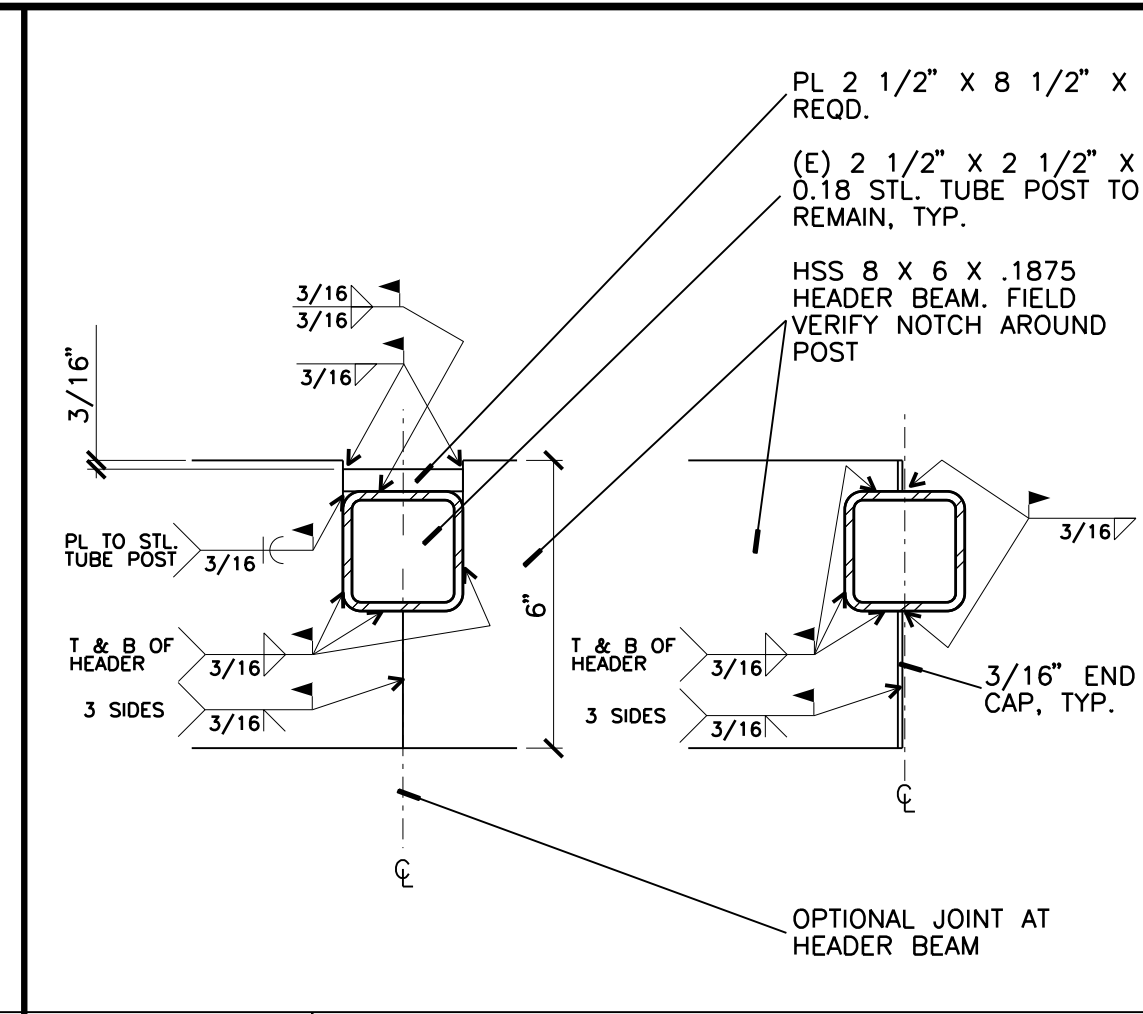
Project Title	UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL
UCR project manager	SCOTT DONNEL
Scale	AS NOTED
Drawn by	J.D.
Checked by	S.C.
UCR project no.	957443
Sheet No.	A-018



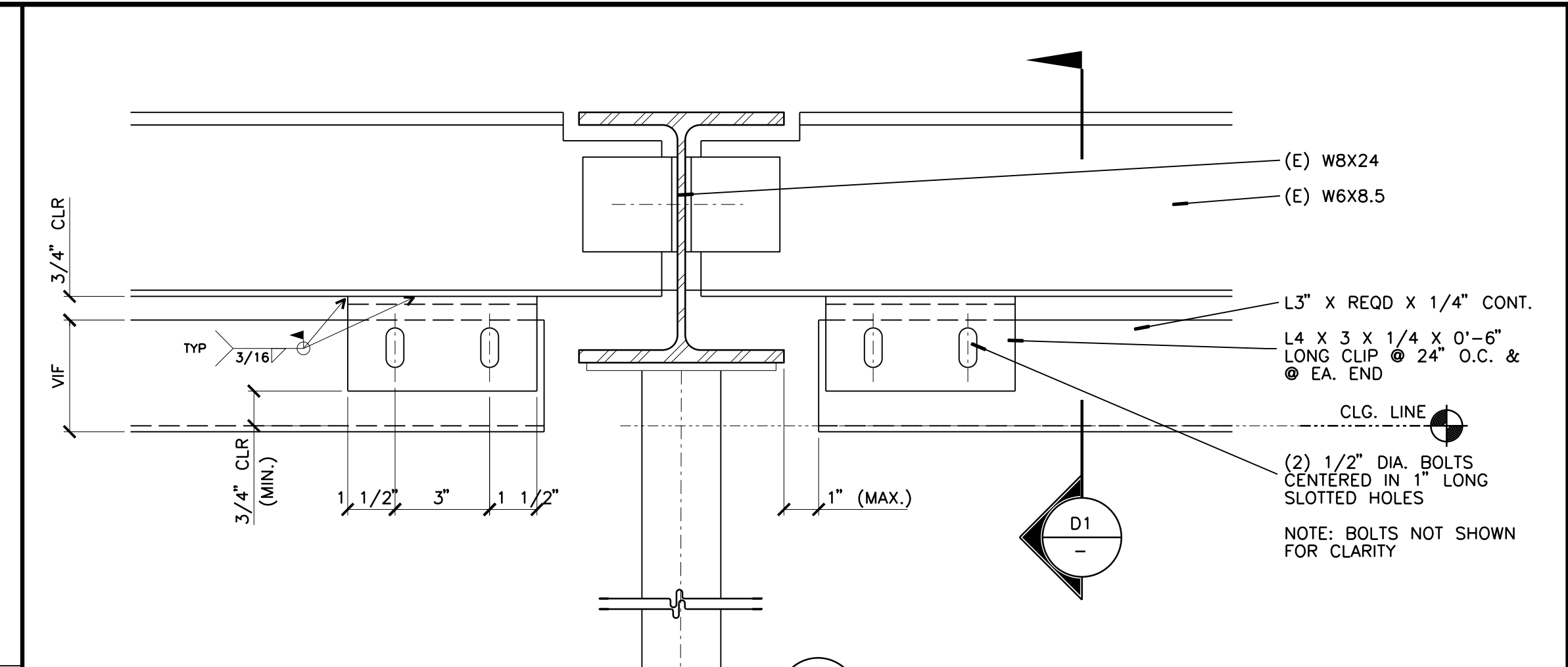
**D1 TOP TRUCK AT CEILING.**  
3" = 1'-0"



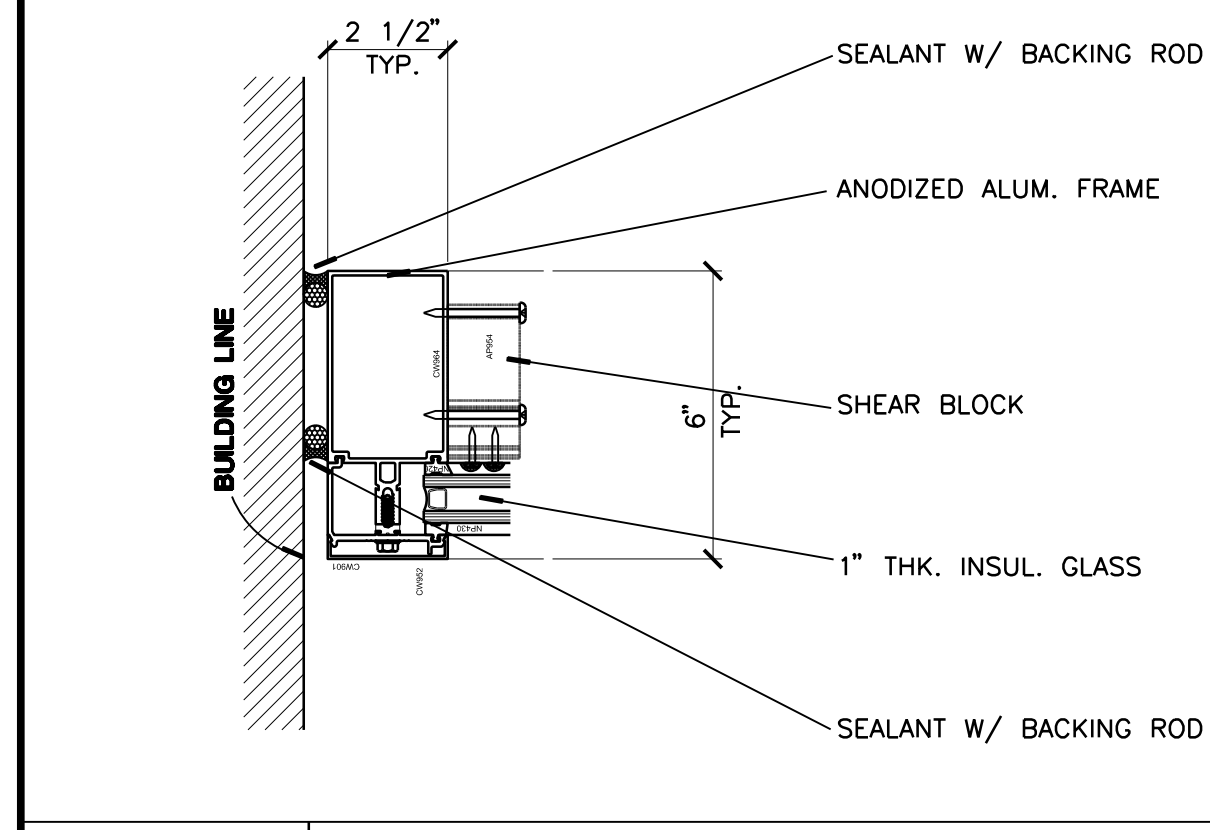
**D2 HEAD (CONTINUING MEMBER)**  
3" = 1'-0"



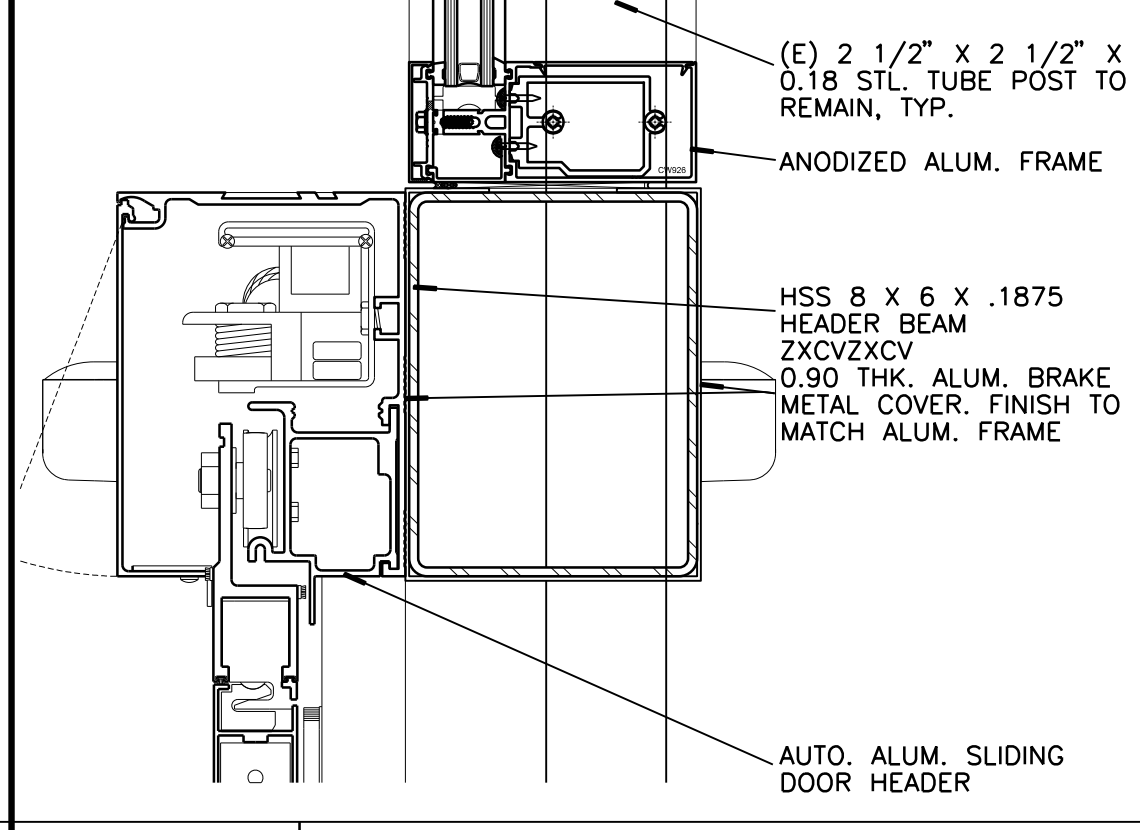
**D3 HEADER BEAM AT (E) POST**  
3" = 1'-0"



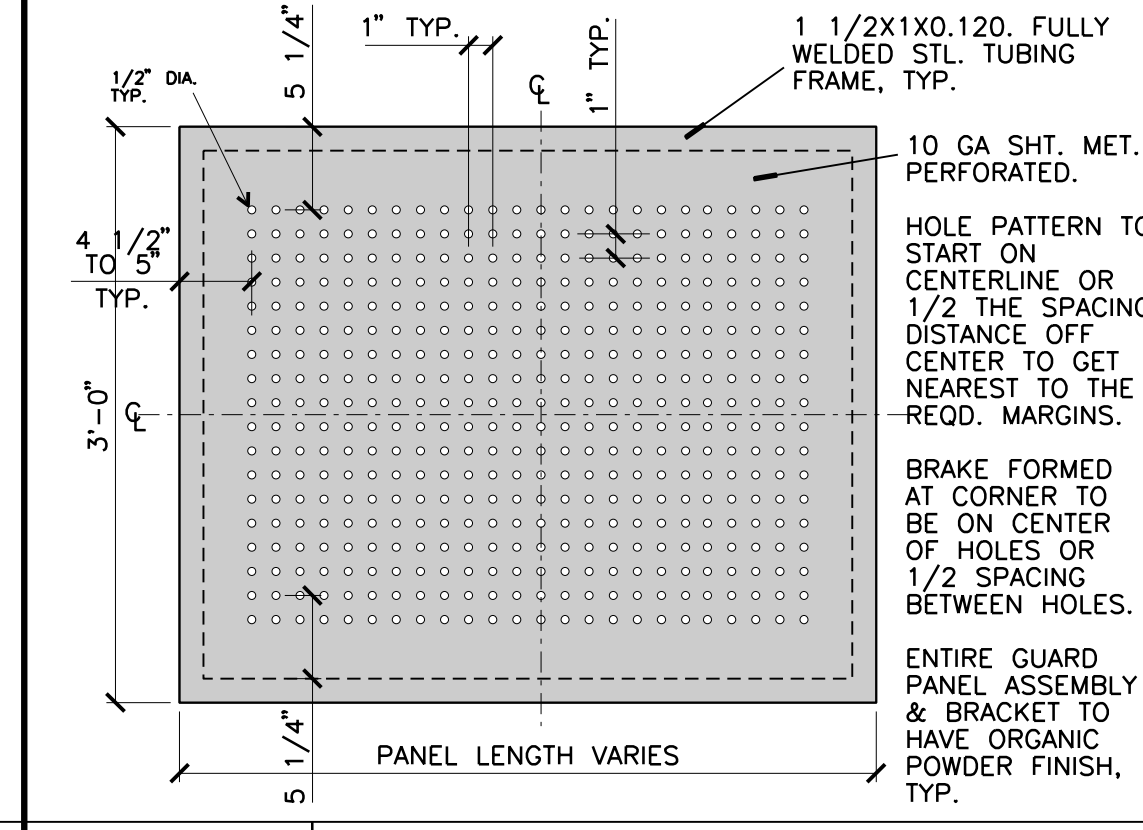
**C4 STEEL FRAMING SUPPORTS FOR ALUMINUM STOREFRONT & AUTO. SLIDING DOOR**  
3" = 1'-0"



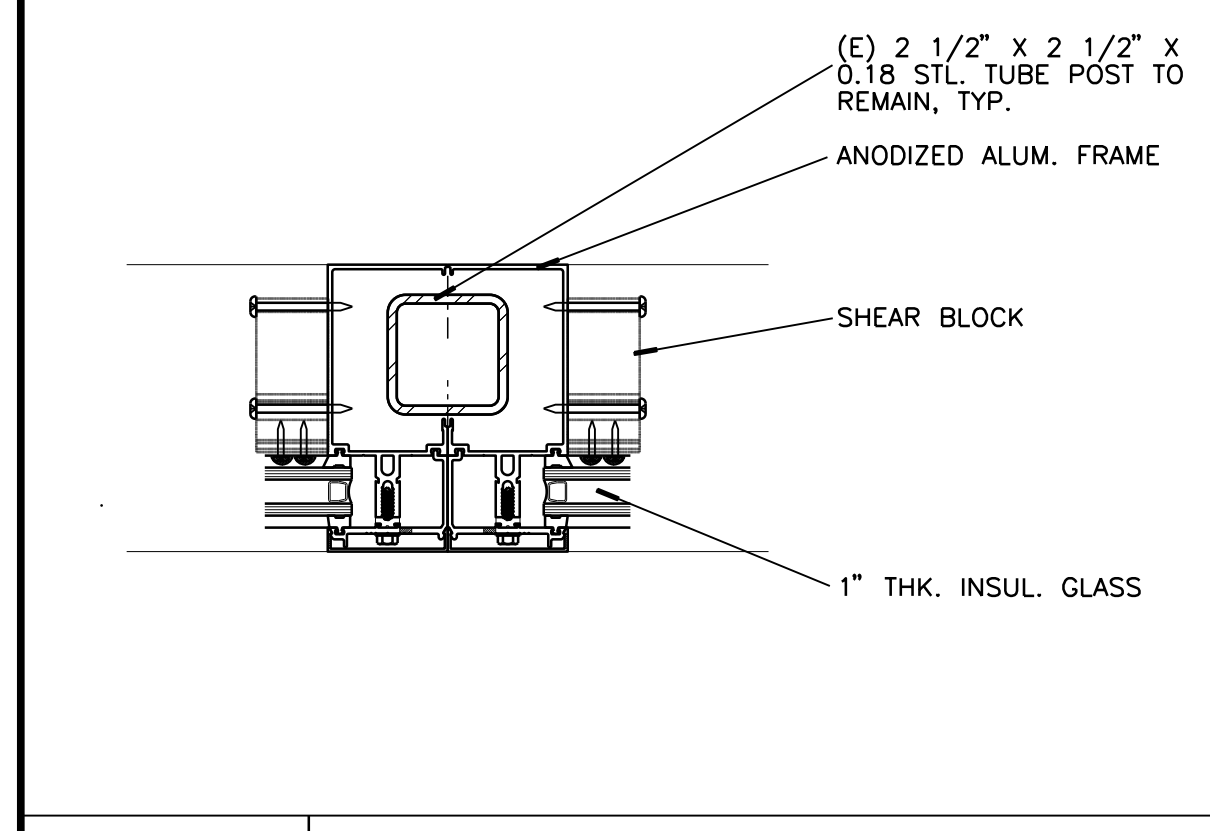
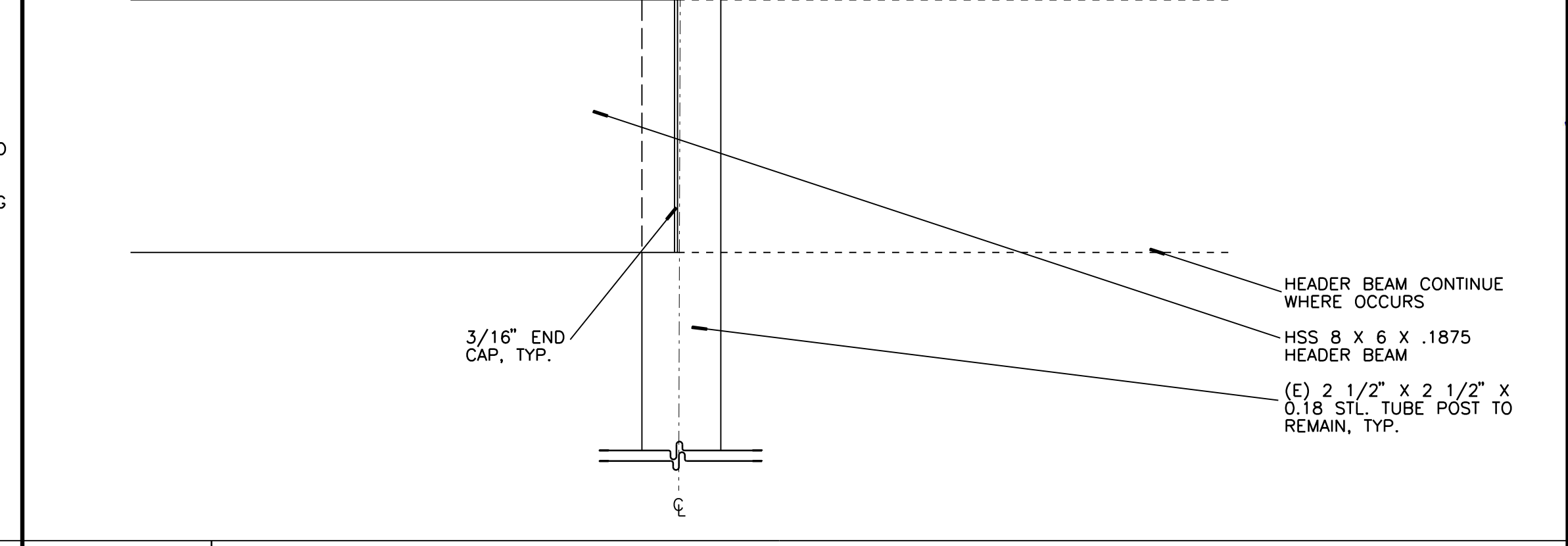
**C1 JAMB AT WALL**  
3" = 1'-0"



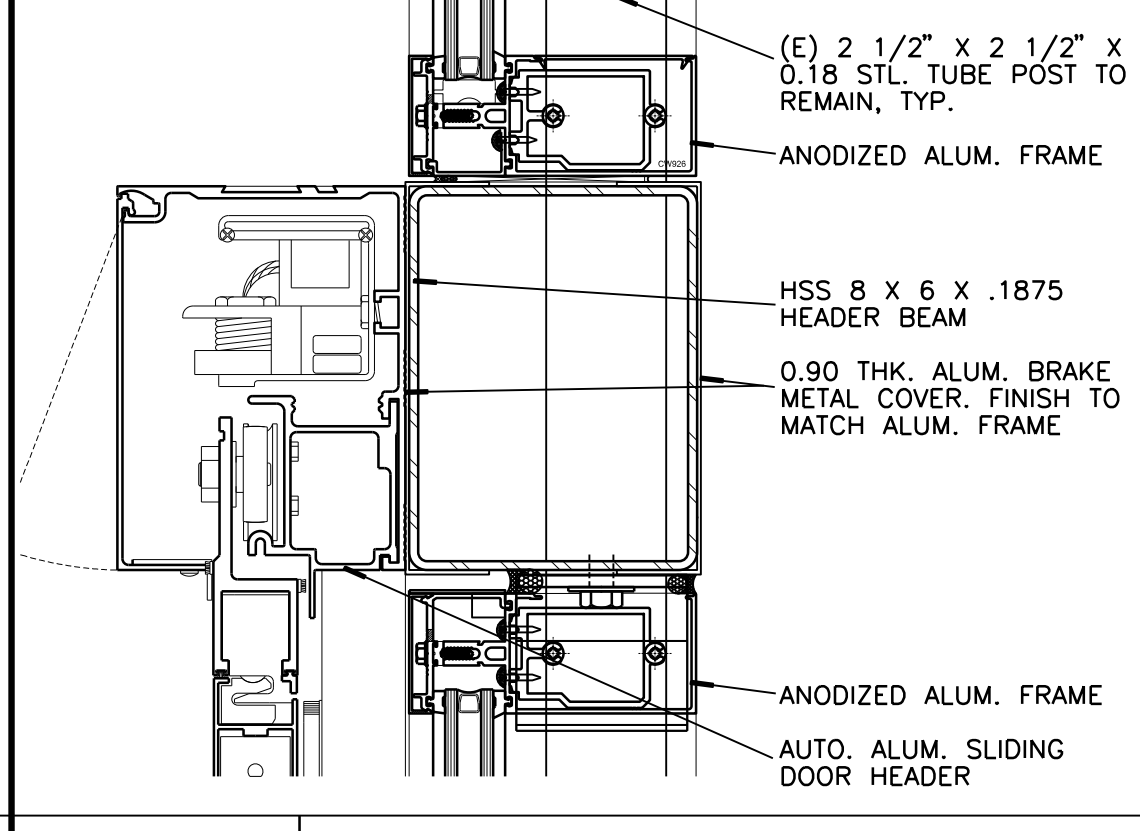
**C2 HEAD AT SLIDING DOOR OPENING**  
3" = 1'-0"



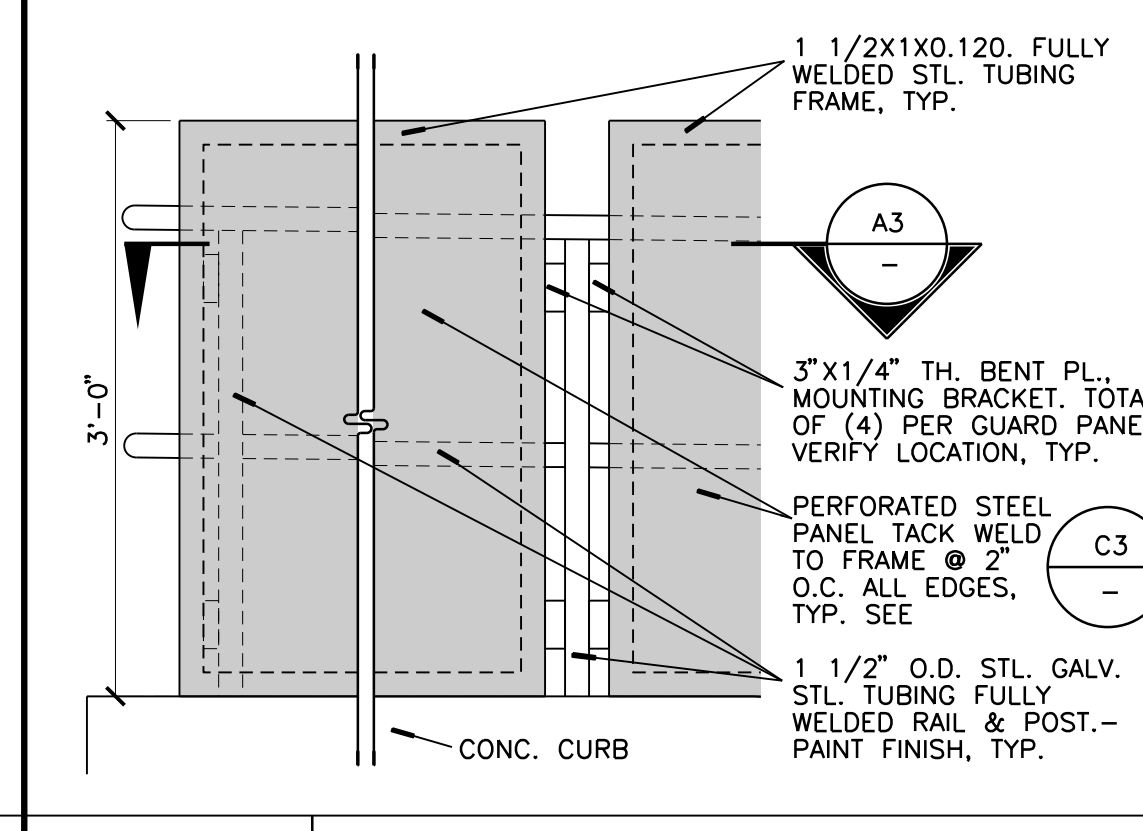
**C3 PERFORATED STEEL PANEL**  
3/4" = 1'-0" OUTSIDE VIEW



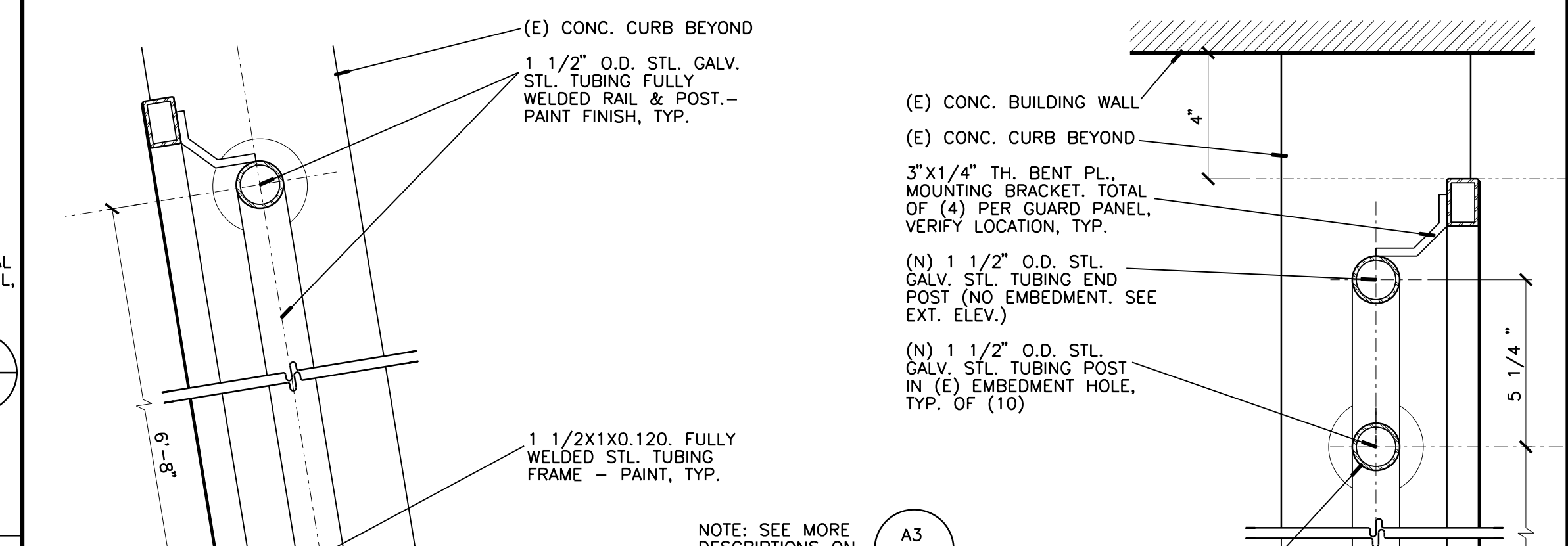
**B1 HORIZONTAL MULLION**  
3" = 1'-0"



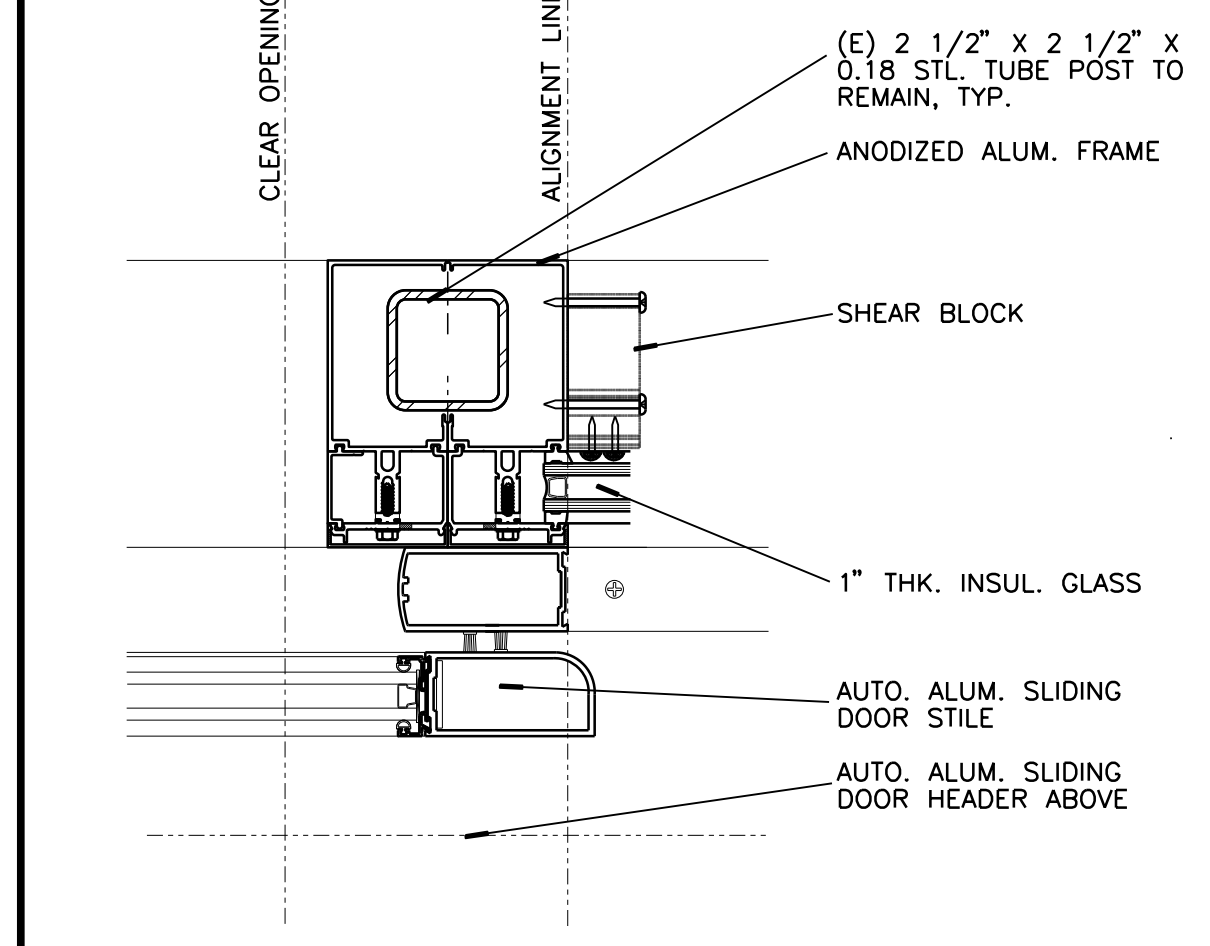
**B2 HEAD AT SLIDING DOOR OPENING**  
3" = 1'-0"



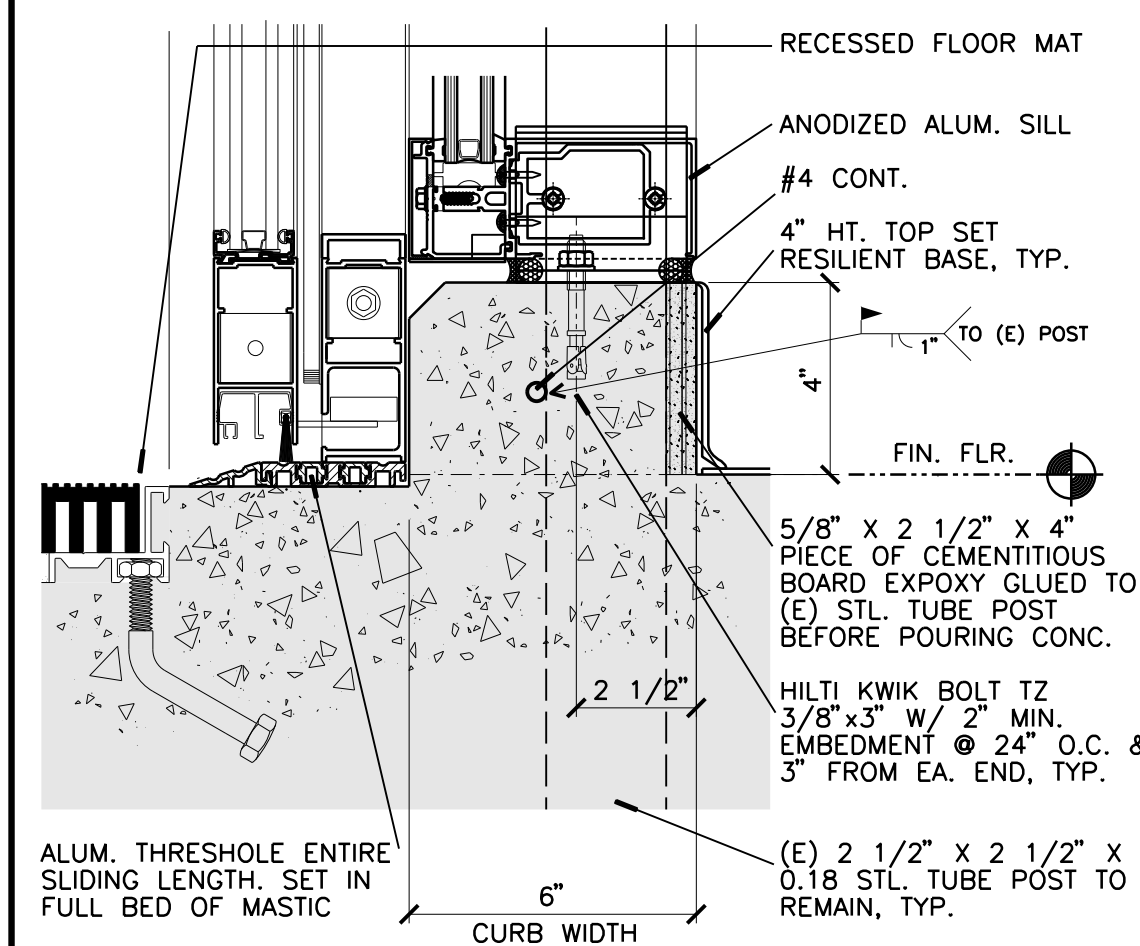
**B3 GUARD PANEL & MOUNTING BRACKET**  
3/4" = 1'-0" OUTSIDE VIEW



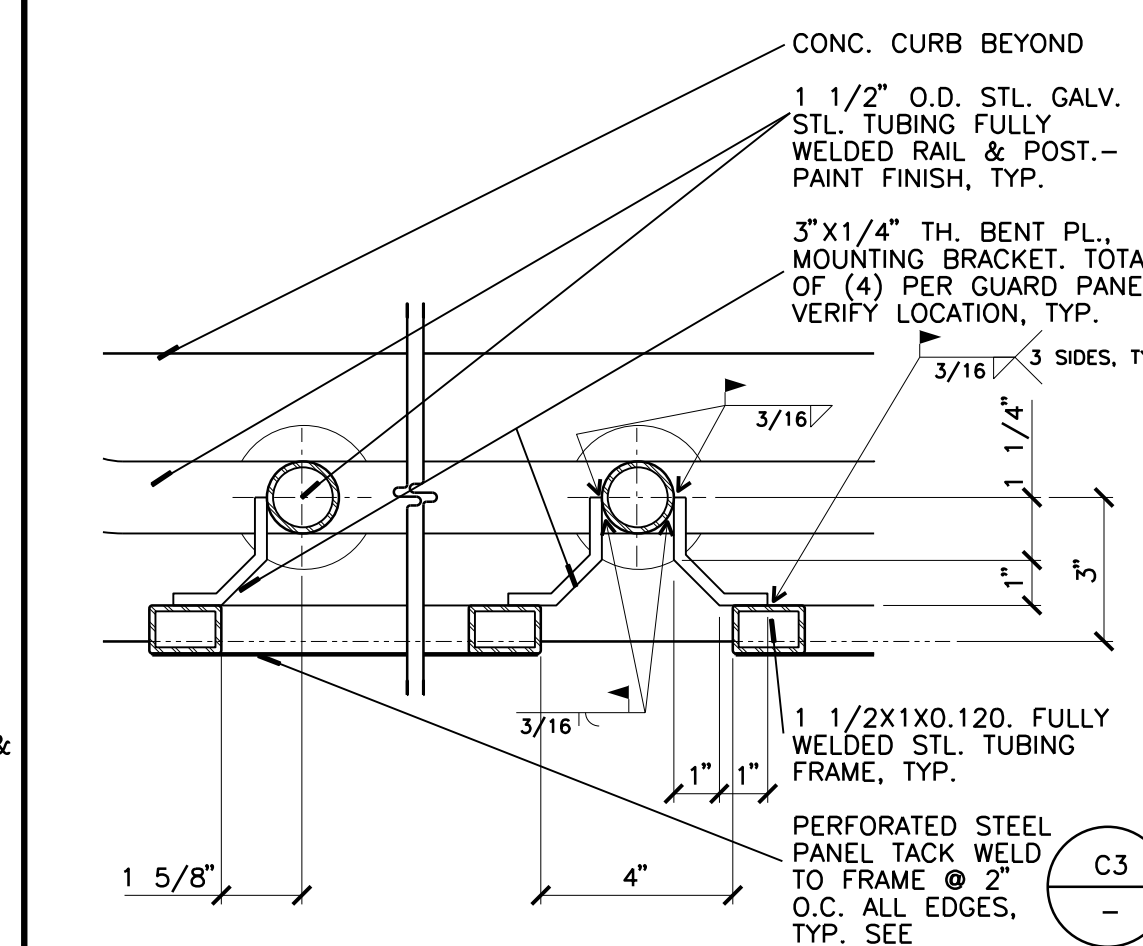
**B3 GUARD PANEL & MOUNTING BRACKET**  
3/4" = 1'-0" OUTSIDE VIEW



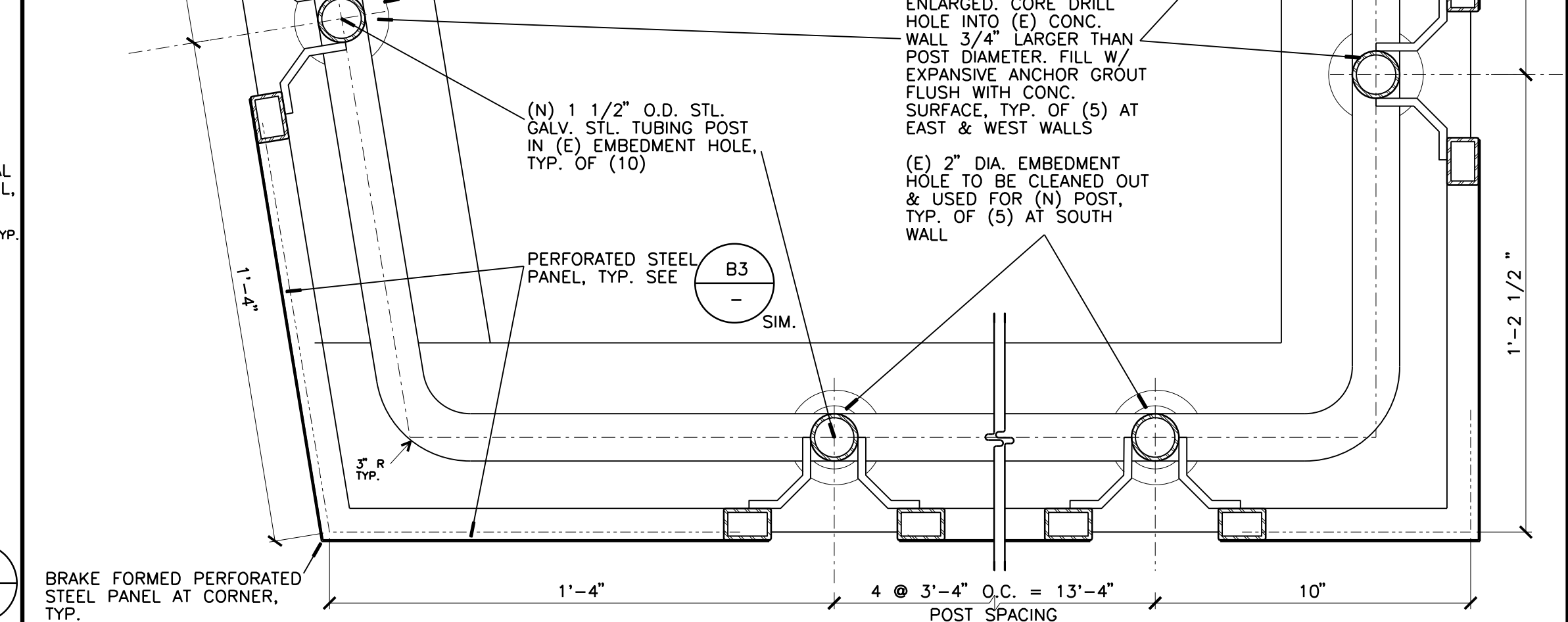
**A1 JAMB - DOOR**  
3" = 1'-0"



**A2 THRESHOLD AT SLIDING DOOR**  
3" = 1'-0"



**A3 GUARD PANEL & MOUNTING BRACKET**  
3" = 1'-0"



**A4 GUARD PANEL AT (E) CONC. RETAINING WALL**  
3" = 1'-0"

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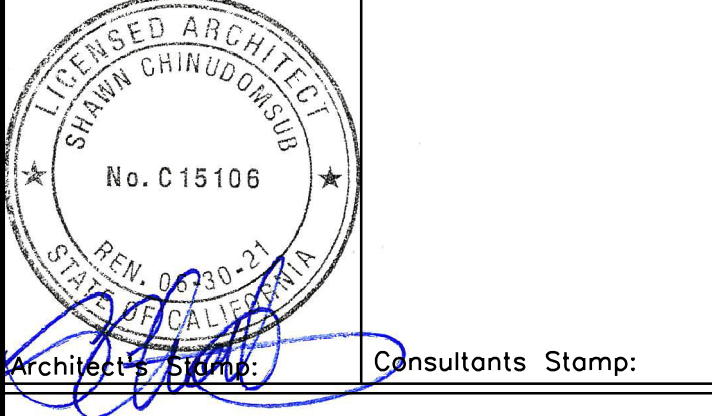
3/19/2019



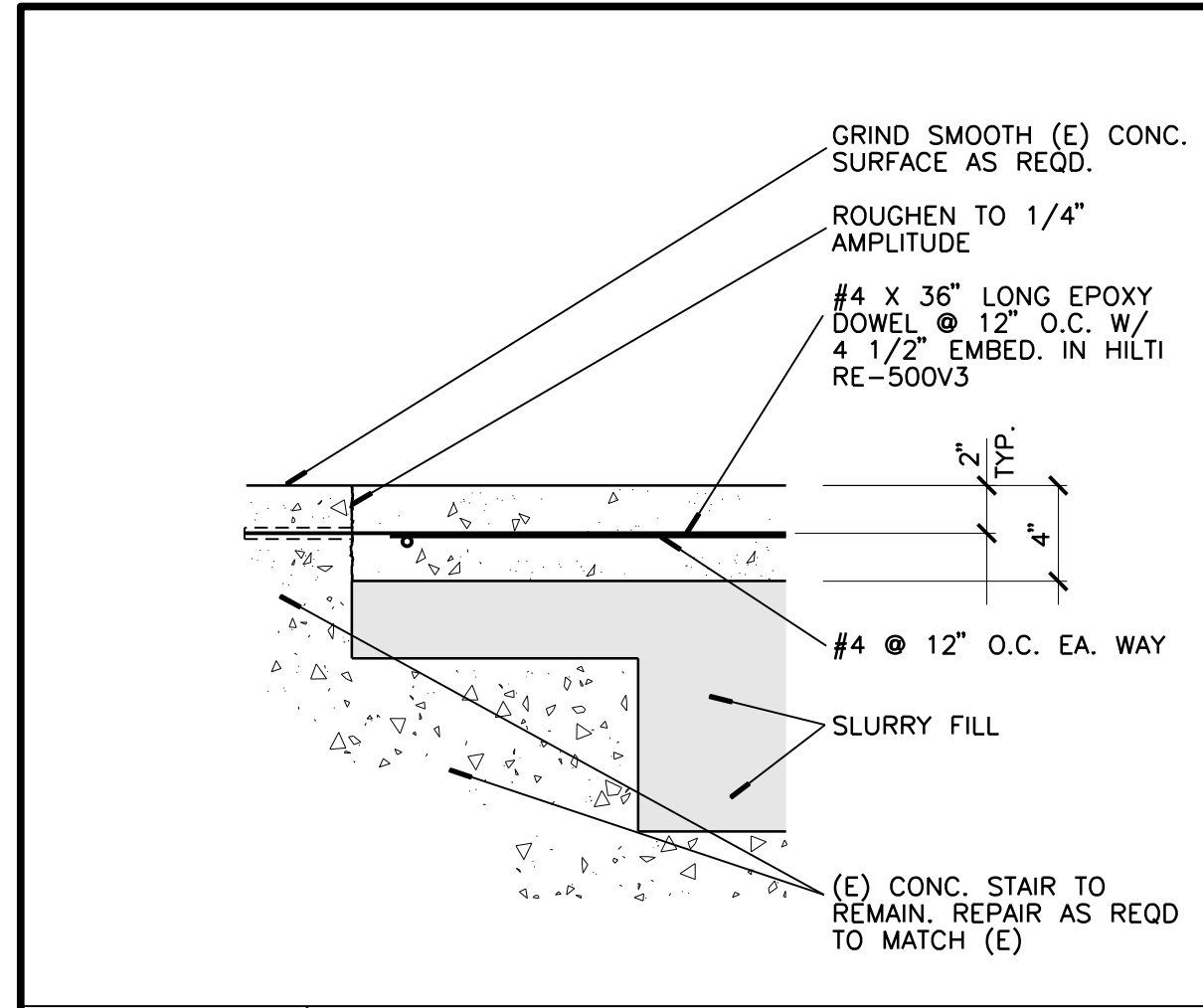
OFFICE OF ARCHITECTS & ENGINEERS  
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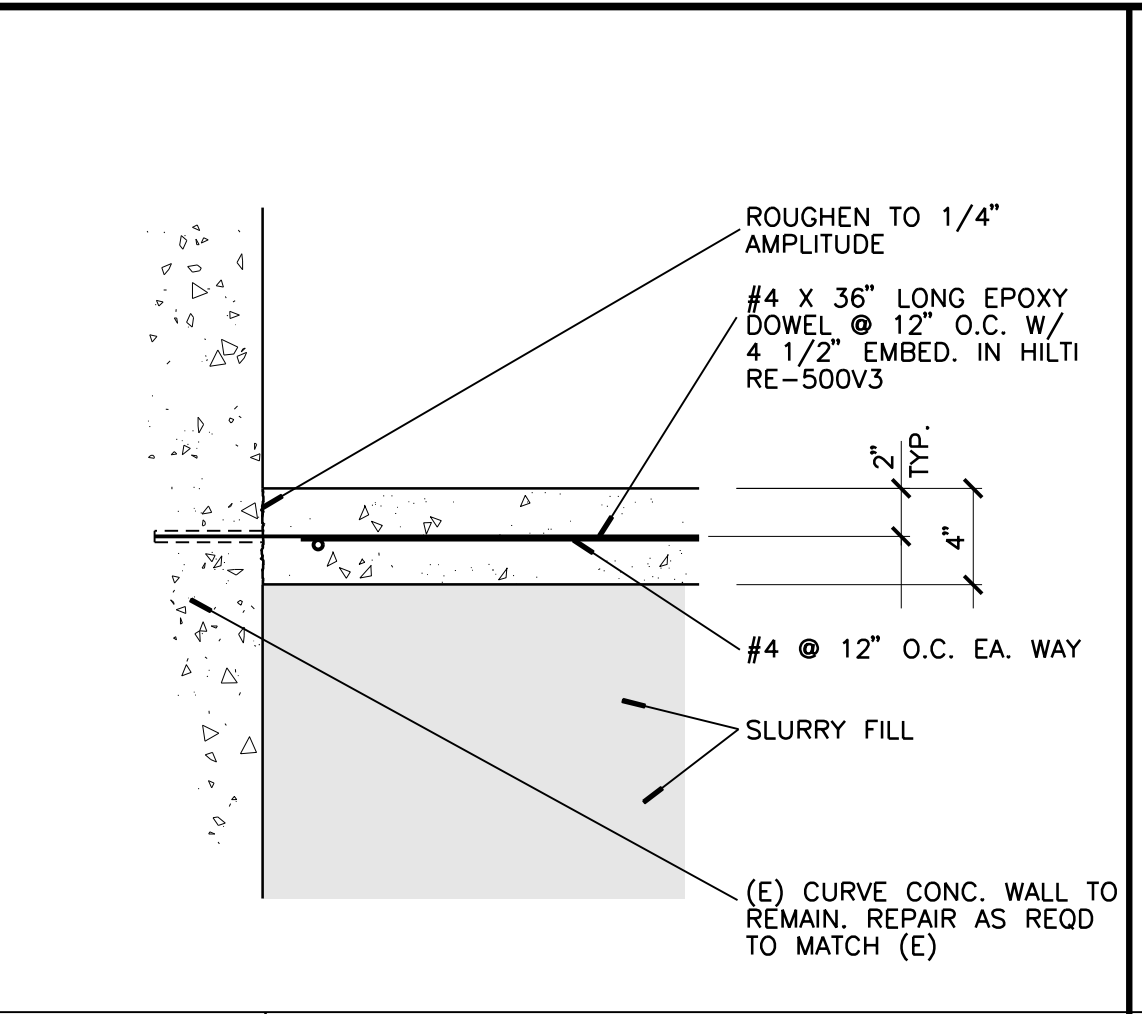
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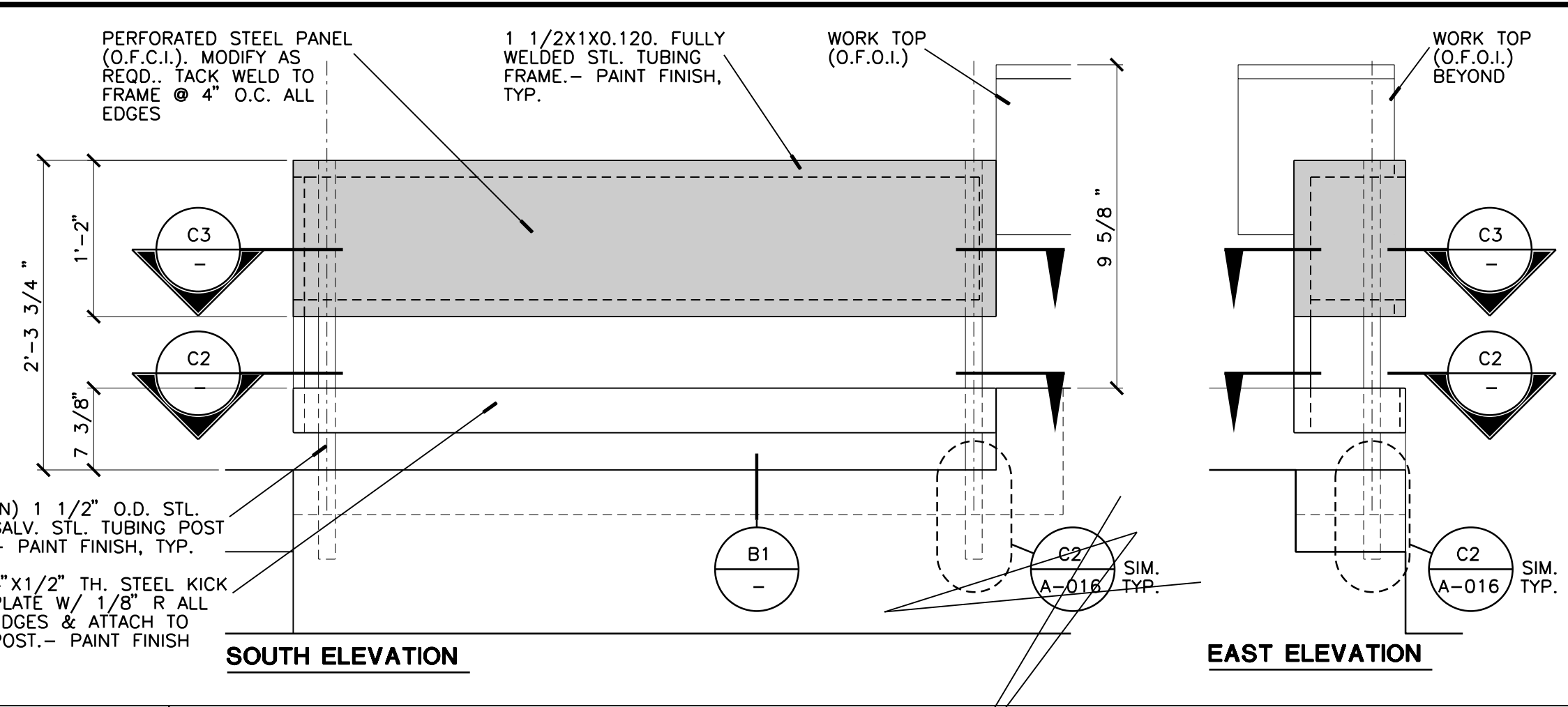
PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**  
CONSTRUCTION DOCUMENTS



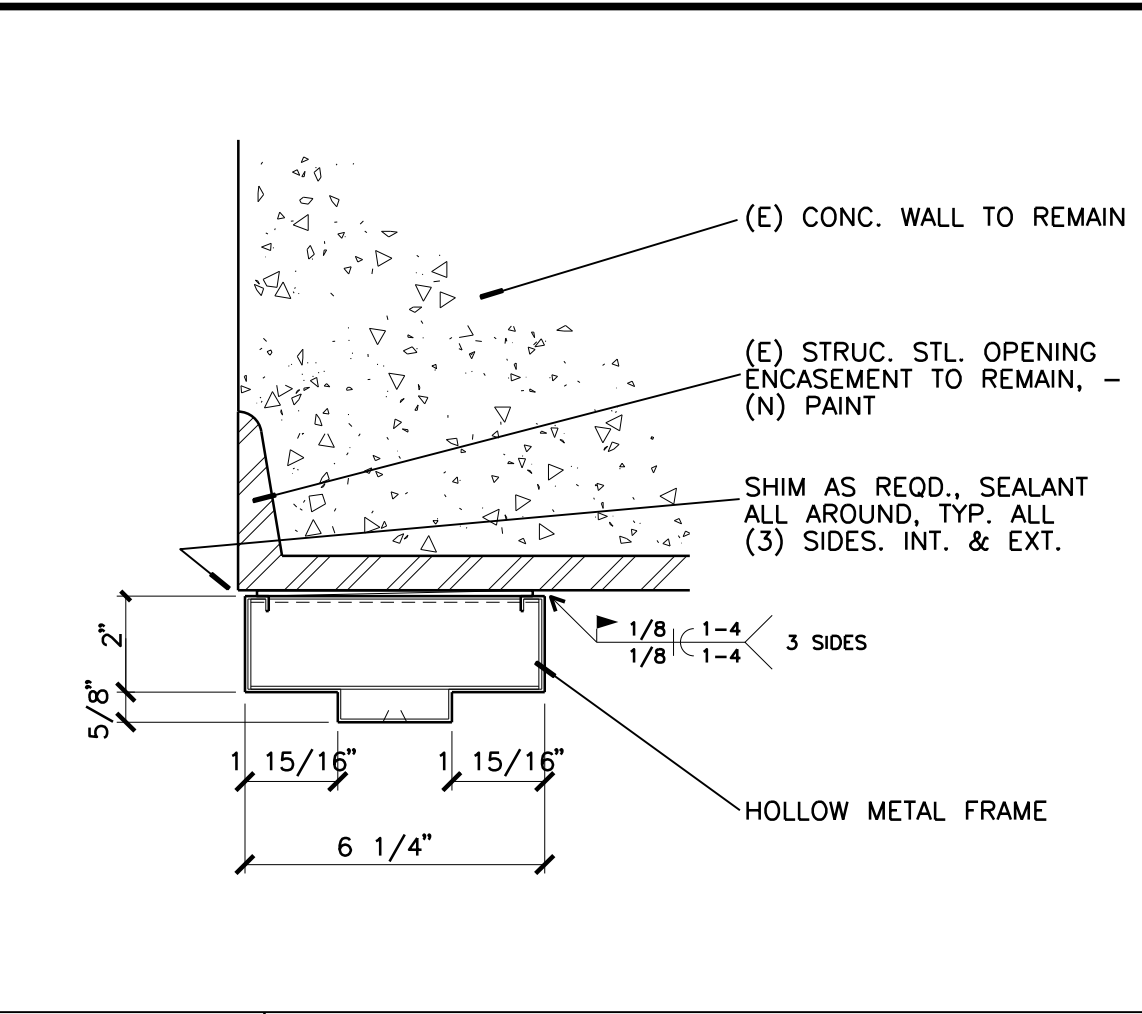
**D1** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



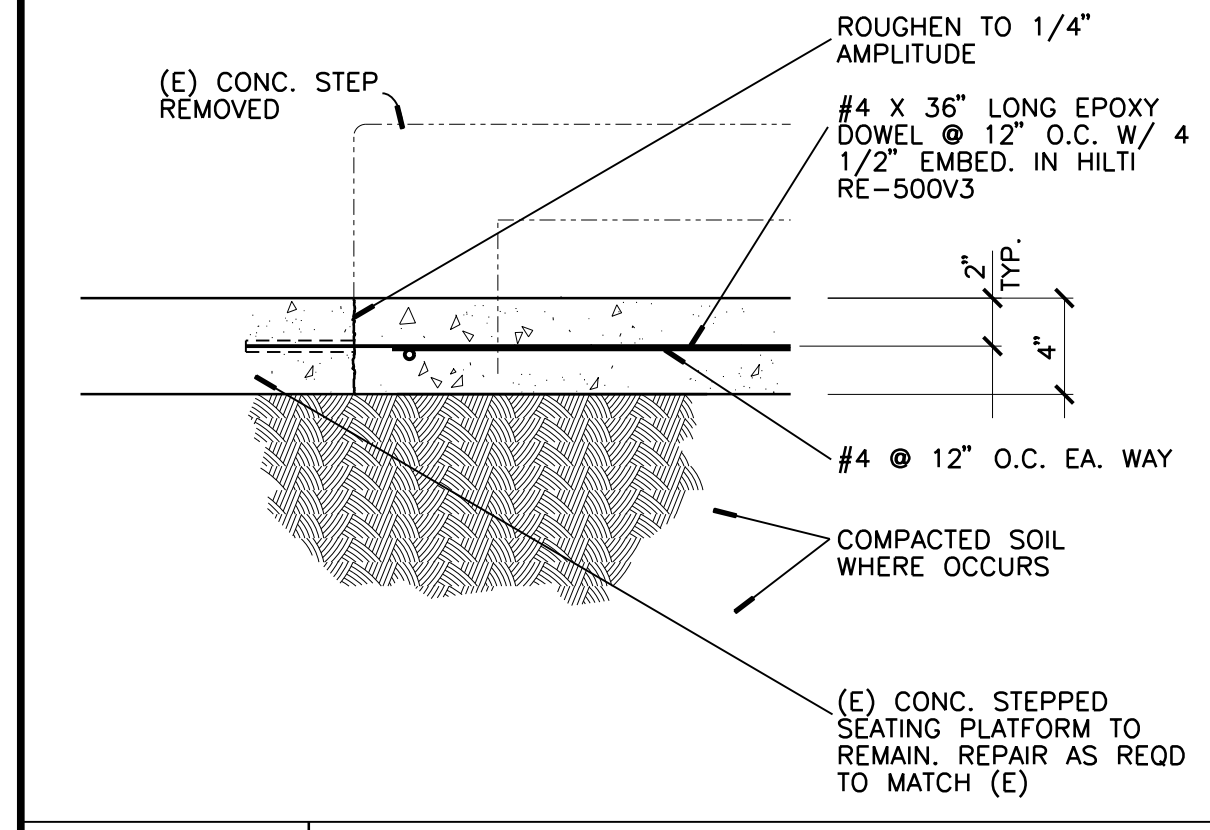
**D2** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



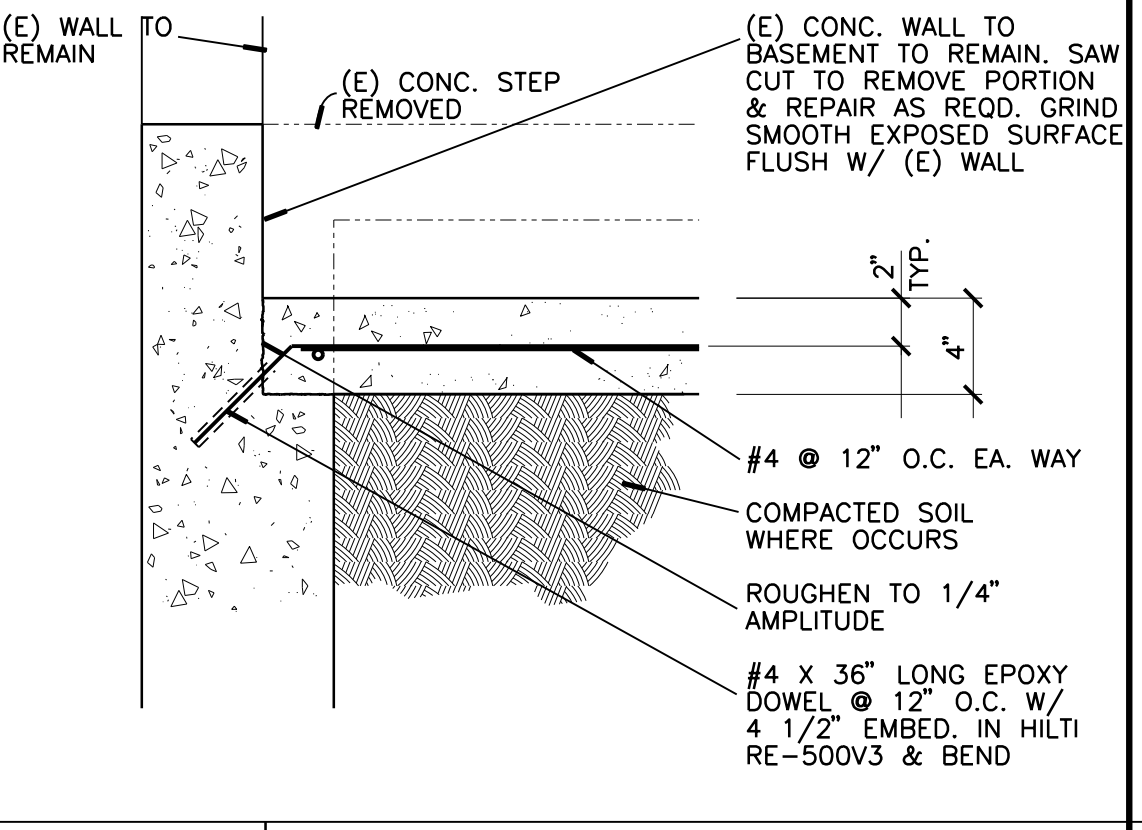
**D3** ACCESSIBLE SPACE RAILING & MODESTY PANEL  
3/4" = 1'-0" FRONT & SIDE VIEW



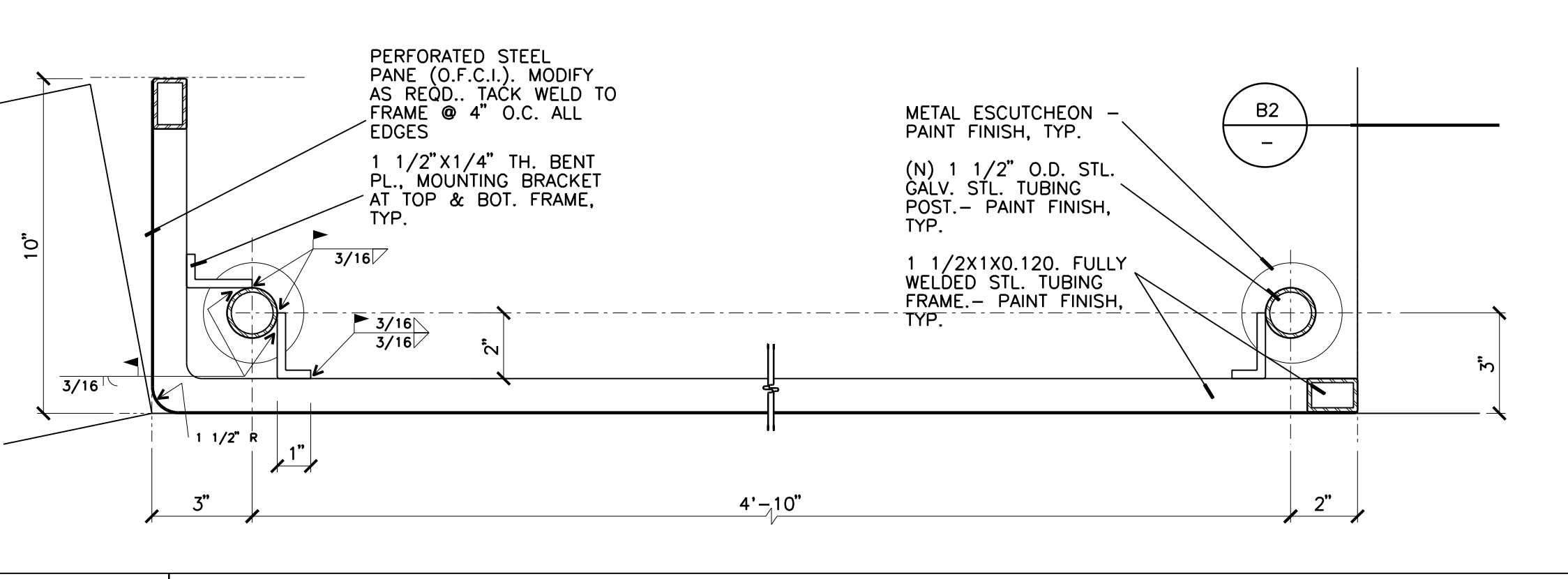
**D5** HEAD - JAMB SIMLAR  
3" = 1'-0"



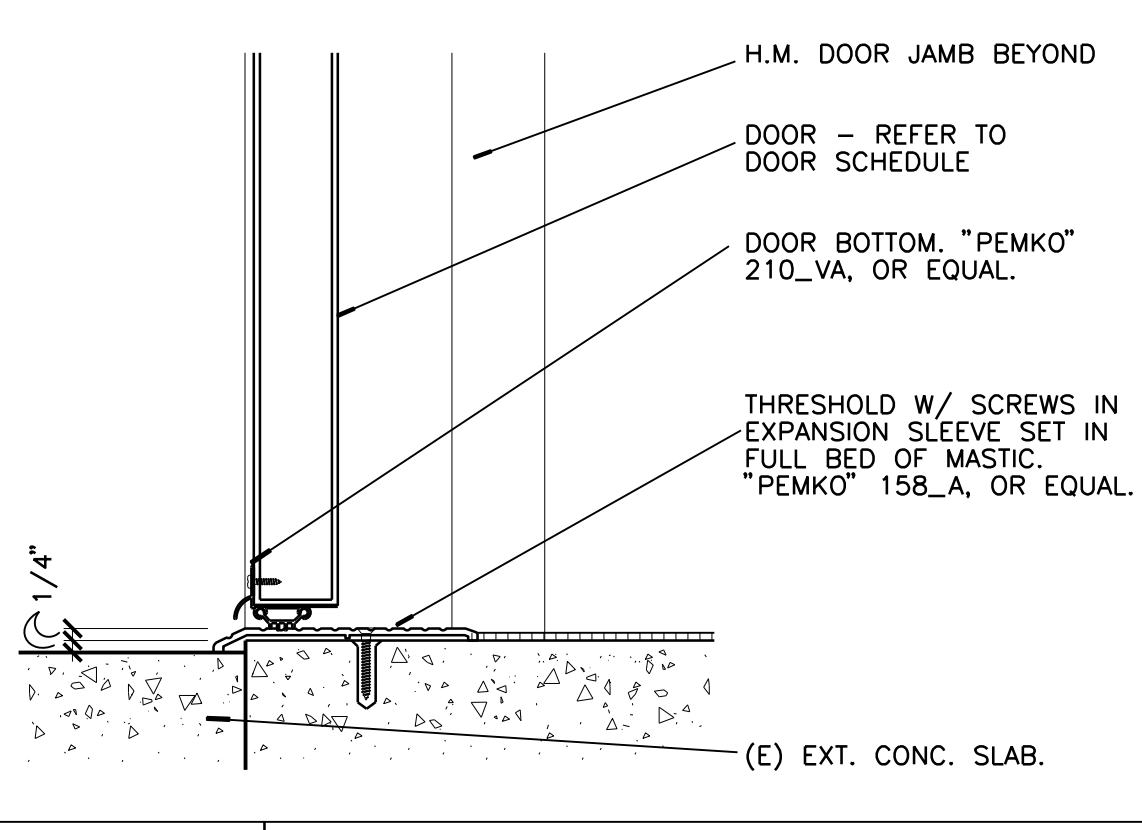
**C1** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



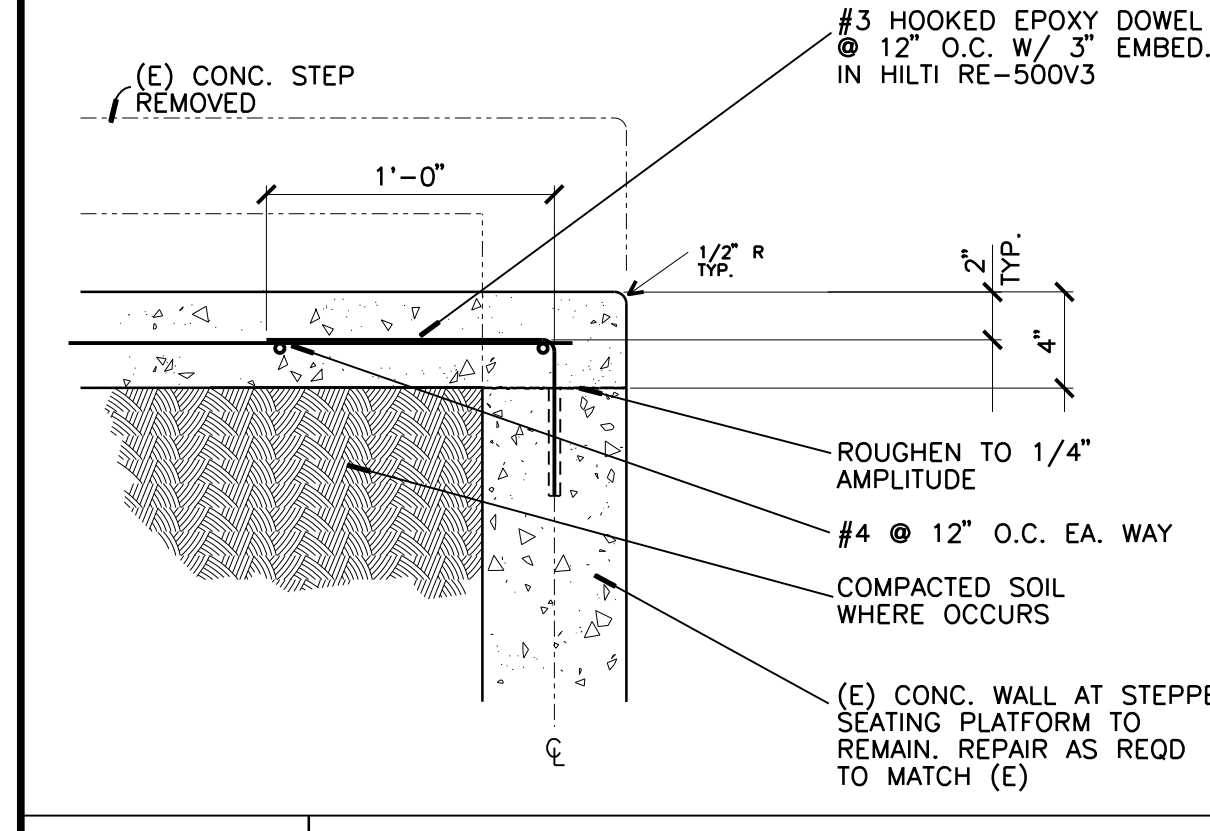
**C2** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



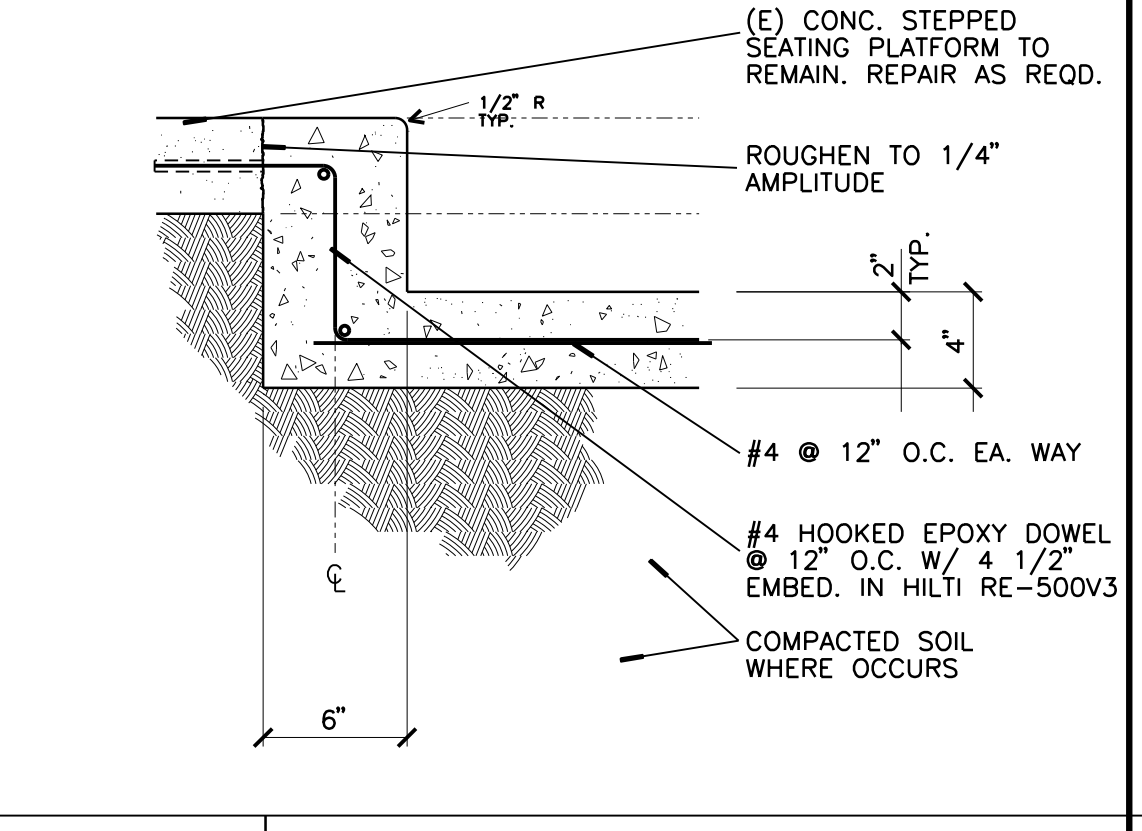
**C3** ACCESSIBLE SPACE RAILING & MODESTY PANEL  
3" = 1'-0" HORIZONTAL SECTION



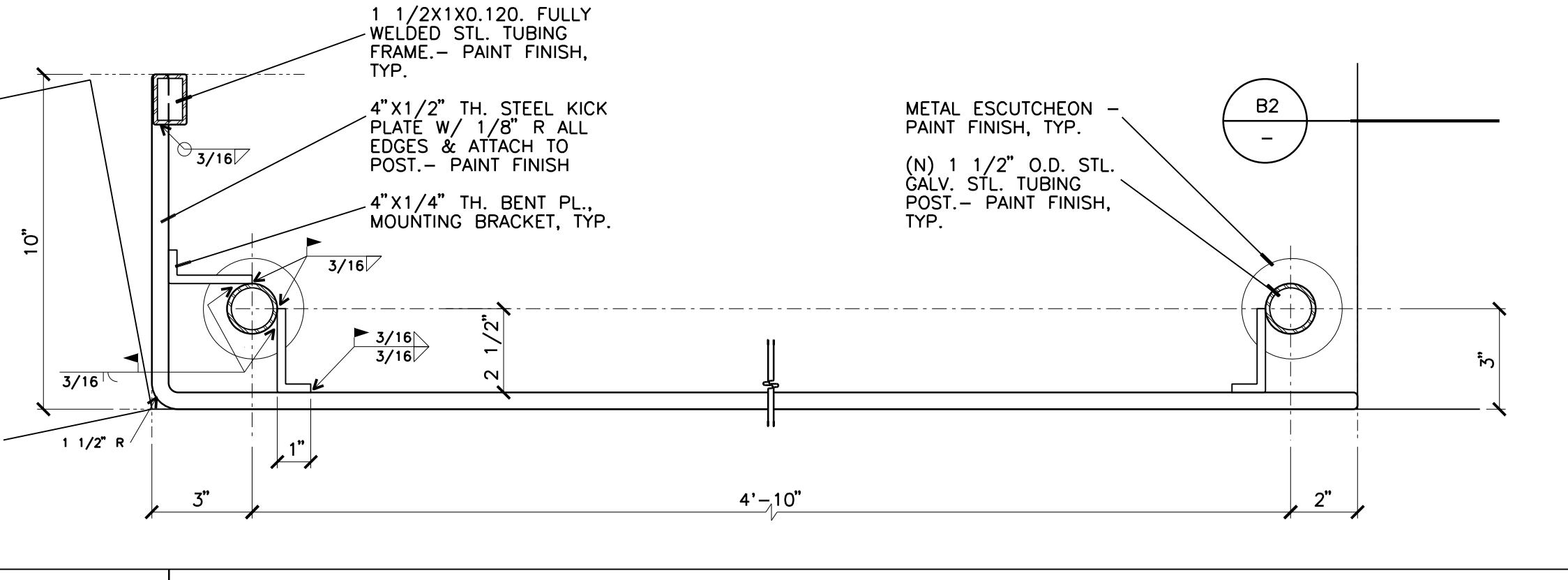
**C5** THRESHOLD - EXTERIOR  
3" = 1'-0"



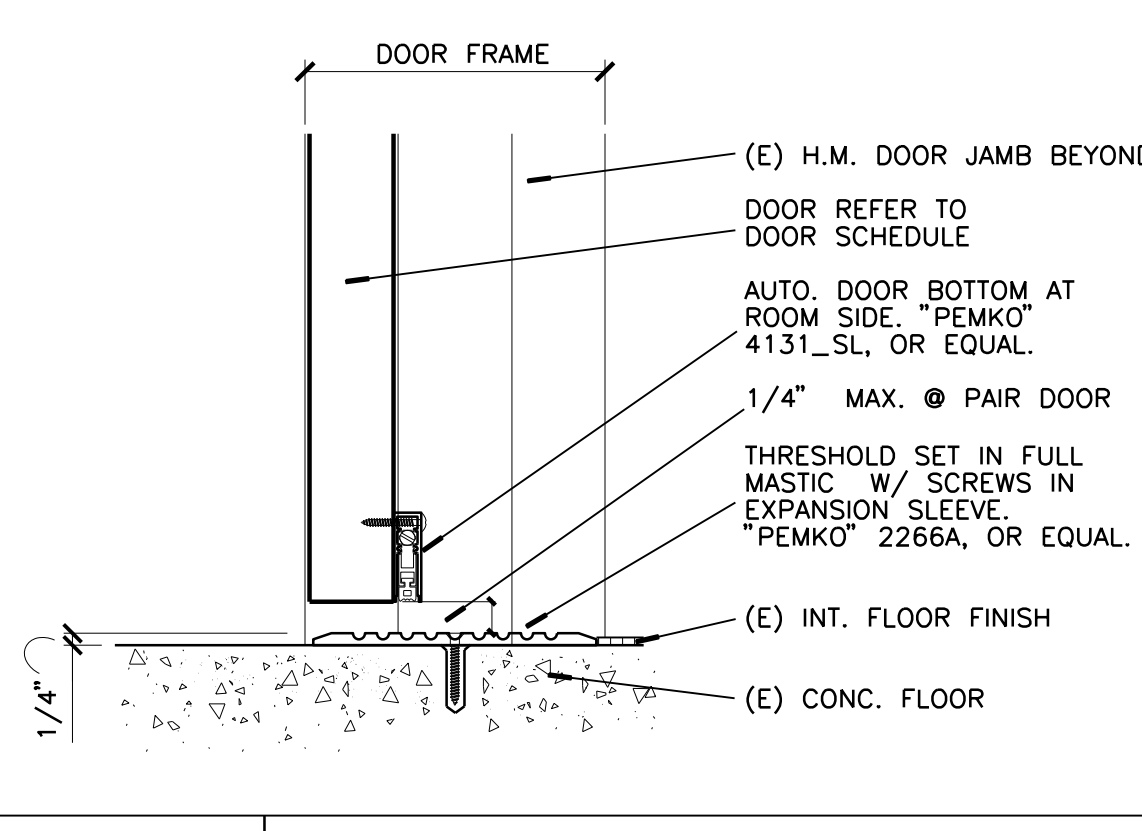
**B1** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



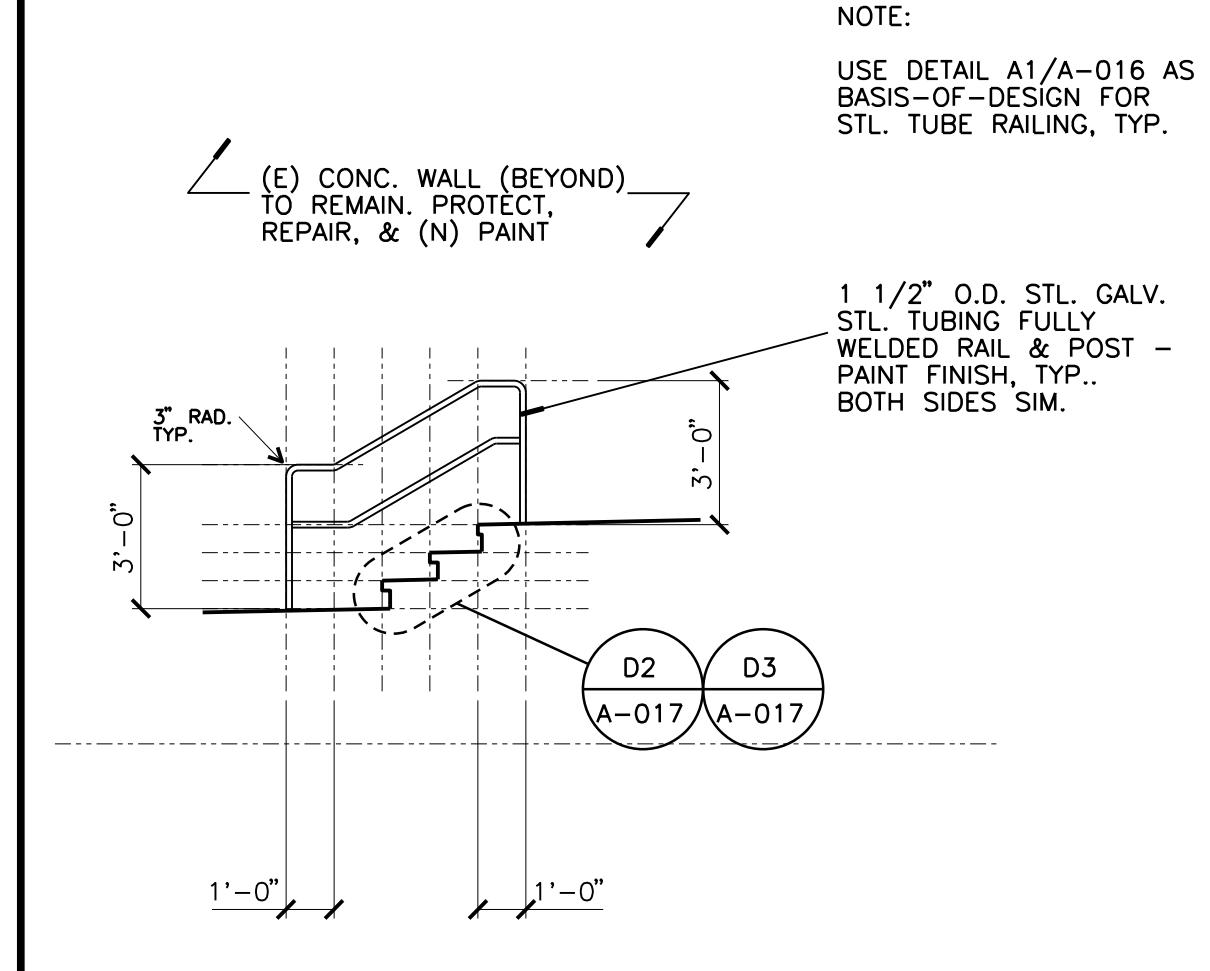
**B2** INTERIOR CONC. SLAB  
1 1/2" = 1'-0"



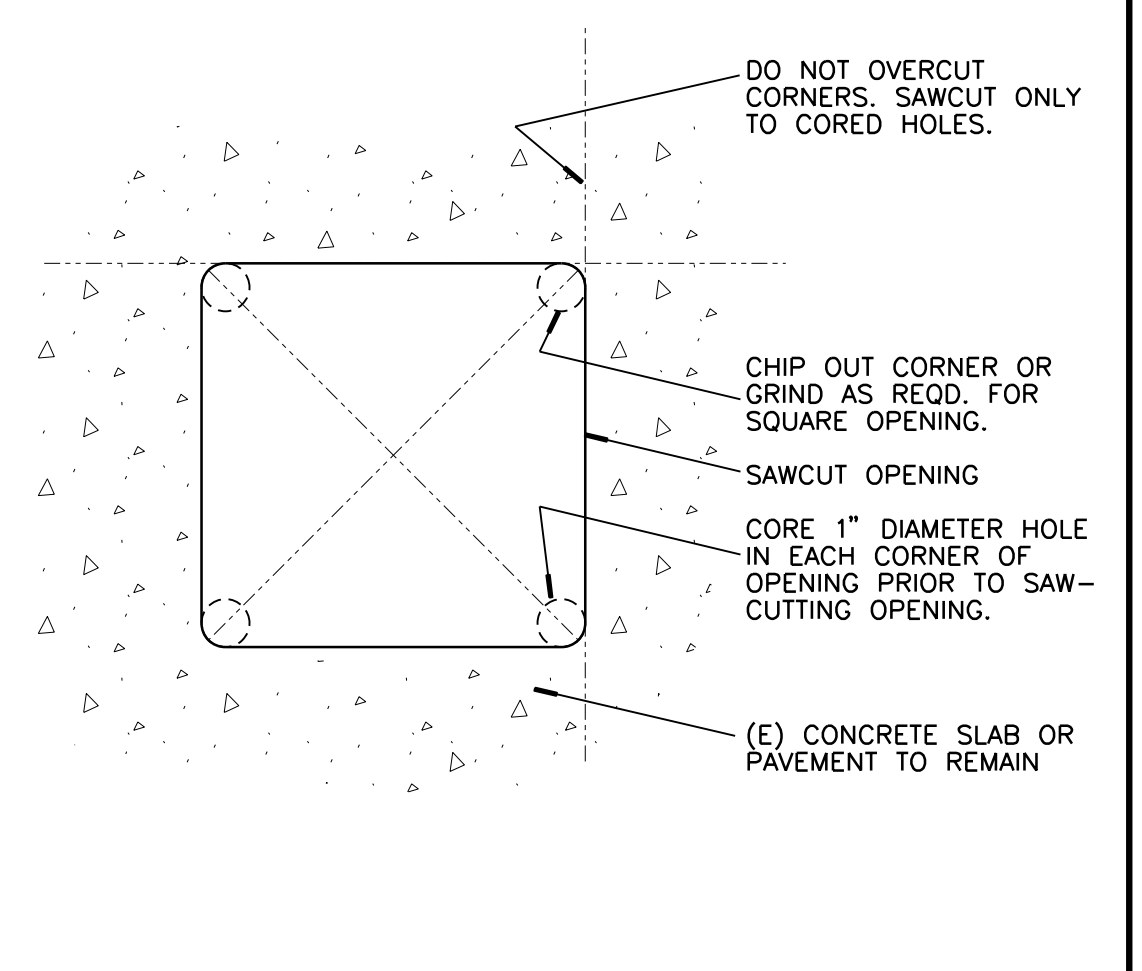
**B3** ACCESSIBLE SPACE RAILING & MODESTY PANEL  
3" = 1'-0" HORIZONTAL SECTION



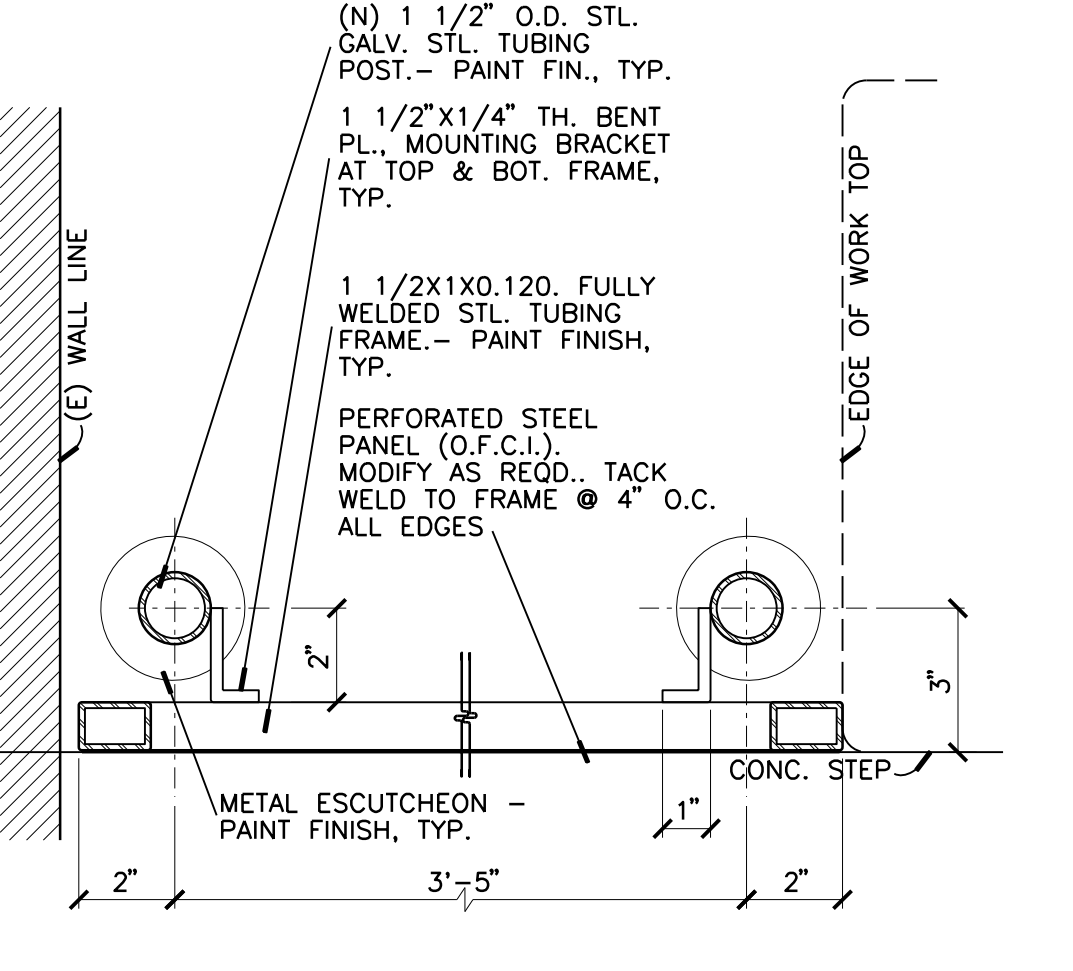
**B5** THRESHOLD - INTERIOR/EXTERIOR  
3" = 1'-0"



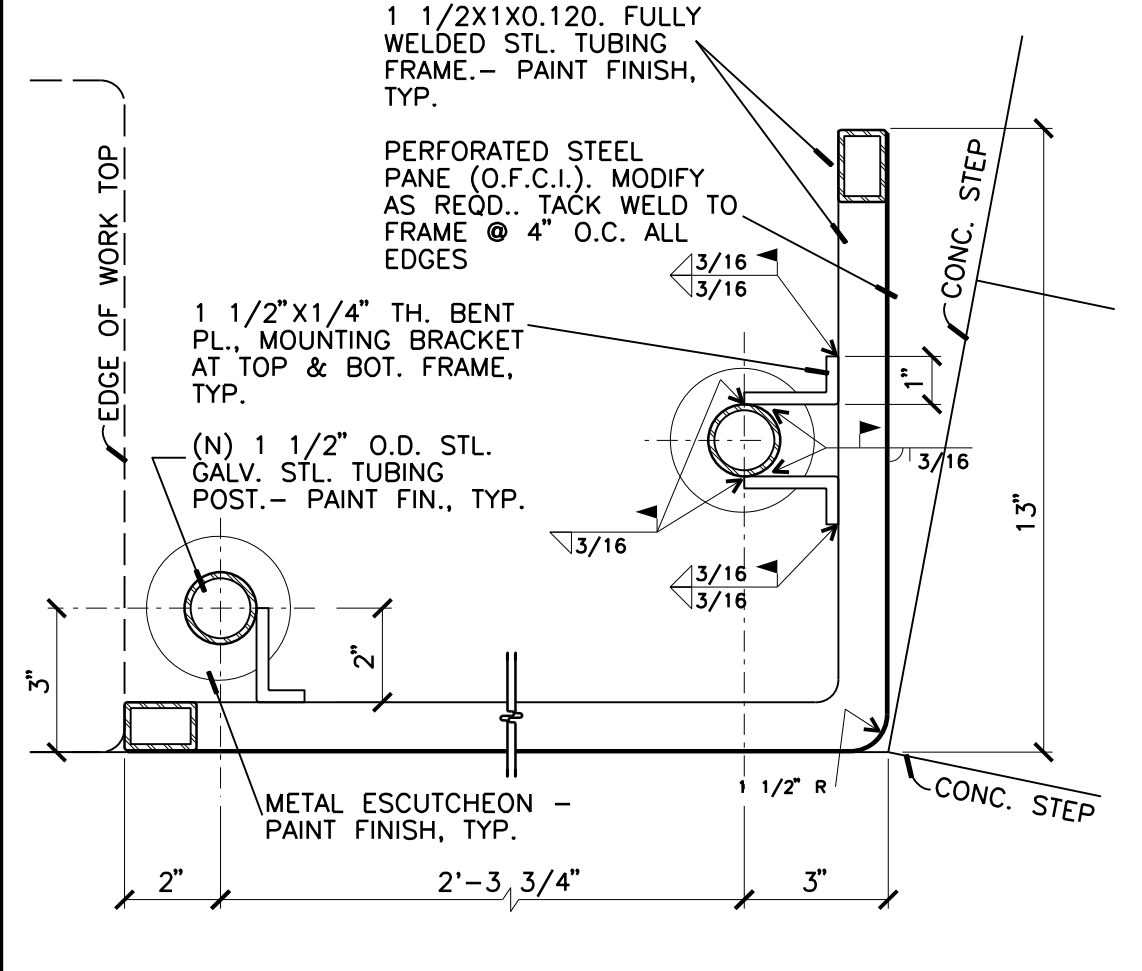
**A1** EXTERIOR ELEVATION  
1/4" = 1'-0"



**A2** SAW CUT (E) CONC. - TYPICAL  
NONE



**A3** RAILING & MODESTY PANEL  
3" = 1'-0" HORIZONTAL SECTION

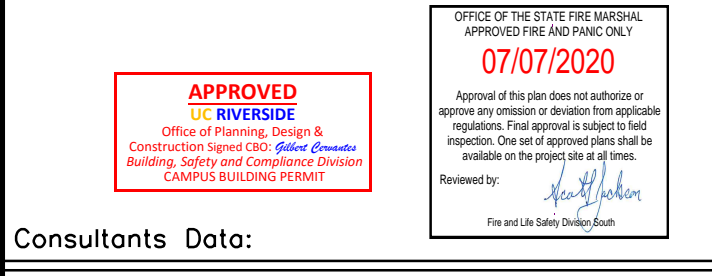


**A4** RAILING & MODESTY PANEL  
3" = 1'-0" HORIZONTAL SECTION



**A5** THRESHOLD - INTERIOR/EXTERIOR  
3" = 1'-0"

REVISIONS		
REV #	DESCRIPTION	DATE



Consultants Data:

Project Title	UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL	
UCR project manager	SCOTT DONNEL	
Scale	AS NOTED	sd approval
Drawn by	J.D.	jd approval
Checked by	S.C.	sc approval
UCR project no.	957443	construction release
also number		

Drawing Name	Sheet No.
DETAILS	A-019 OF

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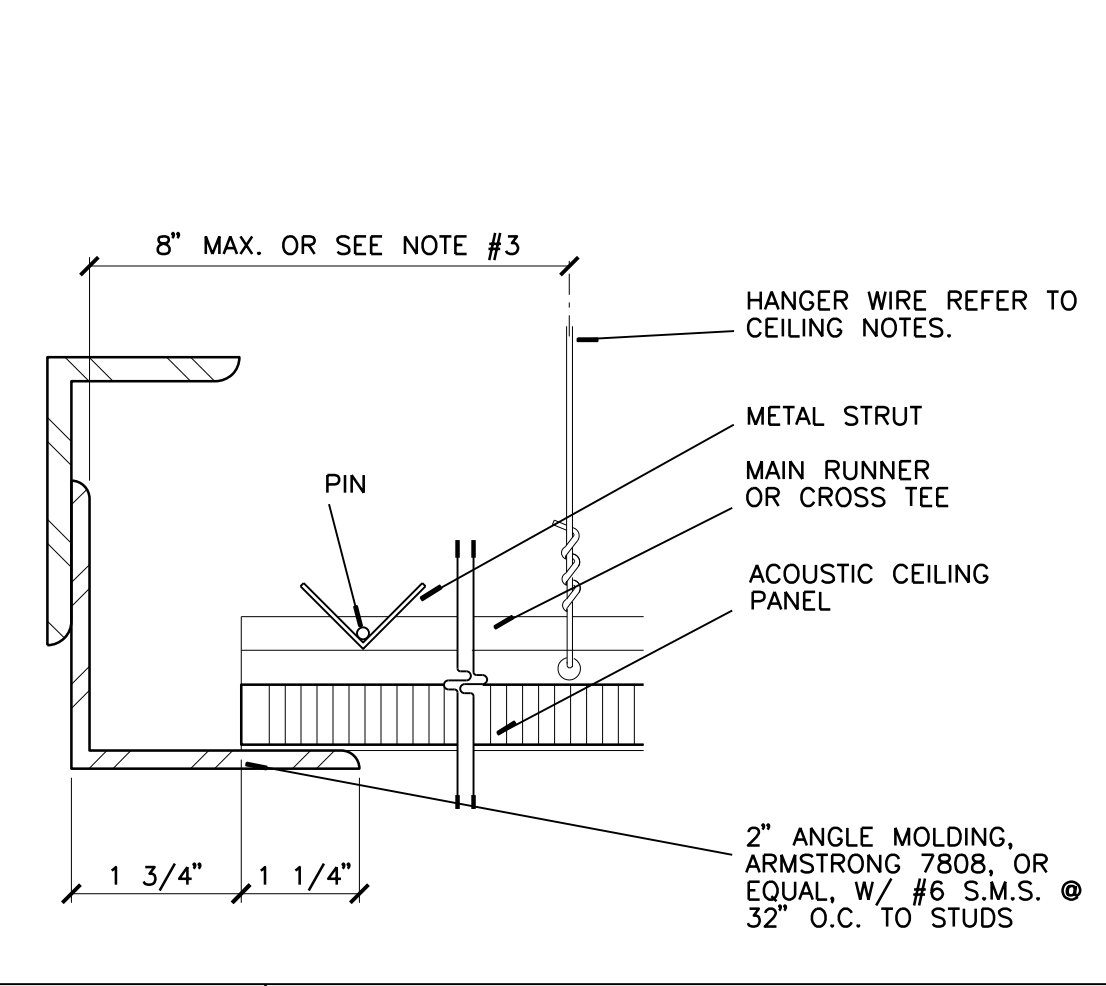


THE FOLLOWING NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES DOES NOT EXCEED FOUR (4) PSF.

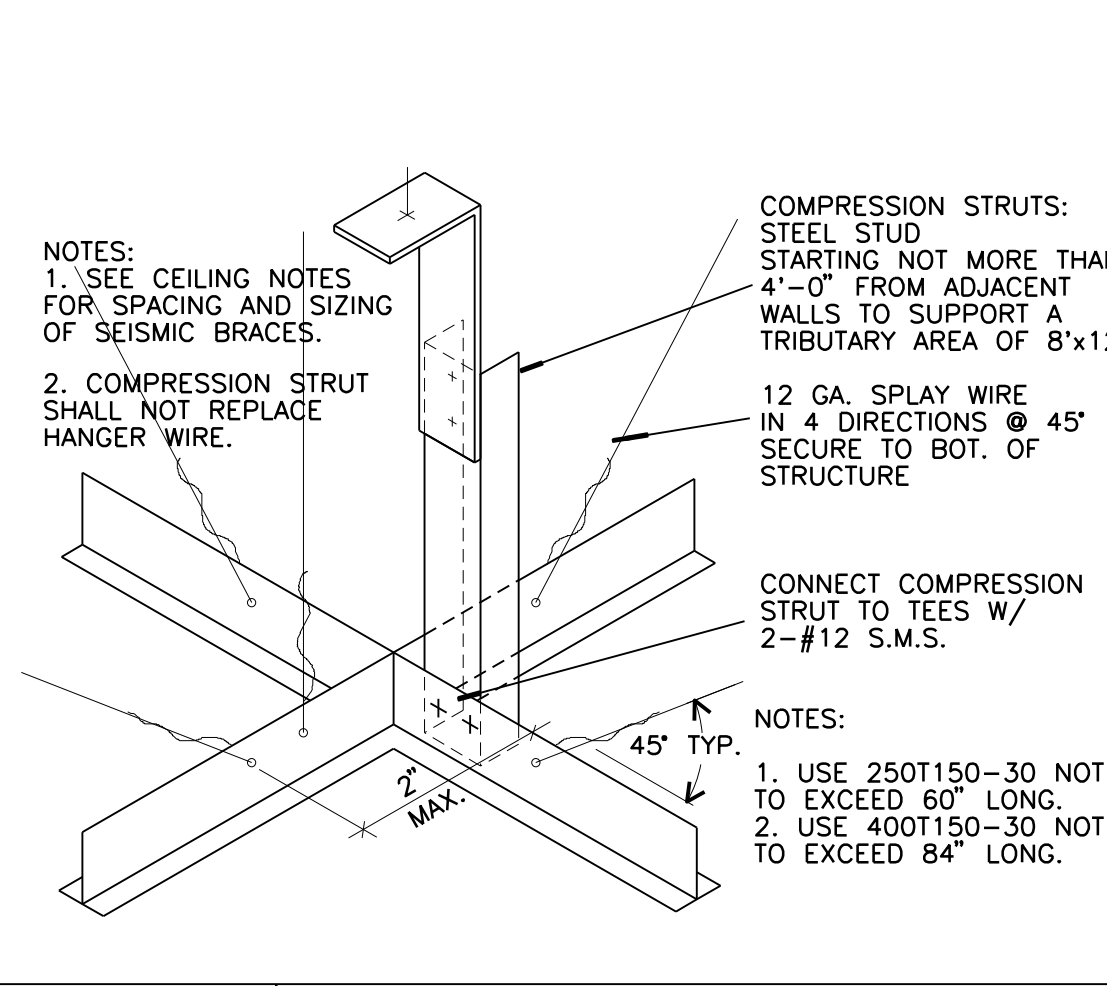
- NO. 12 GAUGE WIRE SHALL BE 0.106 INCHES IN DIAMETER CONFORMING TO ASTM A641. NO. 12 GAUGE WIRE SHALL BE SOFT ANNEALED, GALVANIZED STEEL WIRE WITH A CLASS 1 COATING.
- NO. 12 GAUGE (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4 FEET BY 4 FEET GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.
- PROVIDE NO. 12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST. FOR THE PERIMETER OF THE CEILING AREA, PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
- PROVIDE TRAPEZOIDAL OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
- CEILING GRID MEMBERS SHALL BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A NO. 16 GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
- PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) NO. 12 GAUGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
  - PLACE SETS OF BRACING WIRES NOT MORE THAN 8 FEET BY 12 FEET ON CENTER.
  - PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN ONE HALF (1/2) THE SPACING GIVEN IN (a) ABOVE IN EACH DIRECTION FROM EACH PERIMETER WALL AND AT THE EDGES OF ANY CHANGE IN ELEVATION OF THE CEILING. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED.
- COMPRESSION STRUTS SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE OR WALLS INDEPENDENTLY BRACED ABOVE CEILING TO STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
- FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, STRUCTURAL ANALYSIS SHALL BE PERFORMED TO DEMONSTRATE COMPLIANCE WITH 2010 CBC SECTION 1615A.1.16.
- PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, SWING JOINTS MAY BE PROVIDED PER 2010 CBC SECTION 1615A.1.16.
- FASTEN NO. 12 GAUGE HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN NO. 12 GAUGE BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1 1/2 INCH REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED AND BE AS TIGHT AS POSSIBLE.

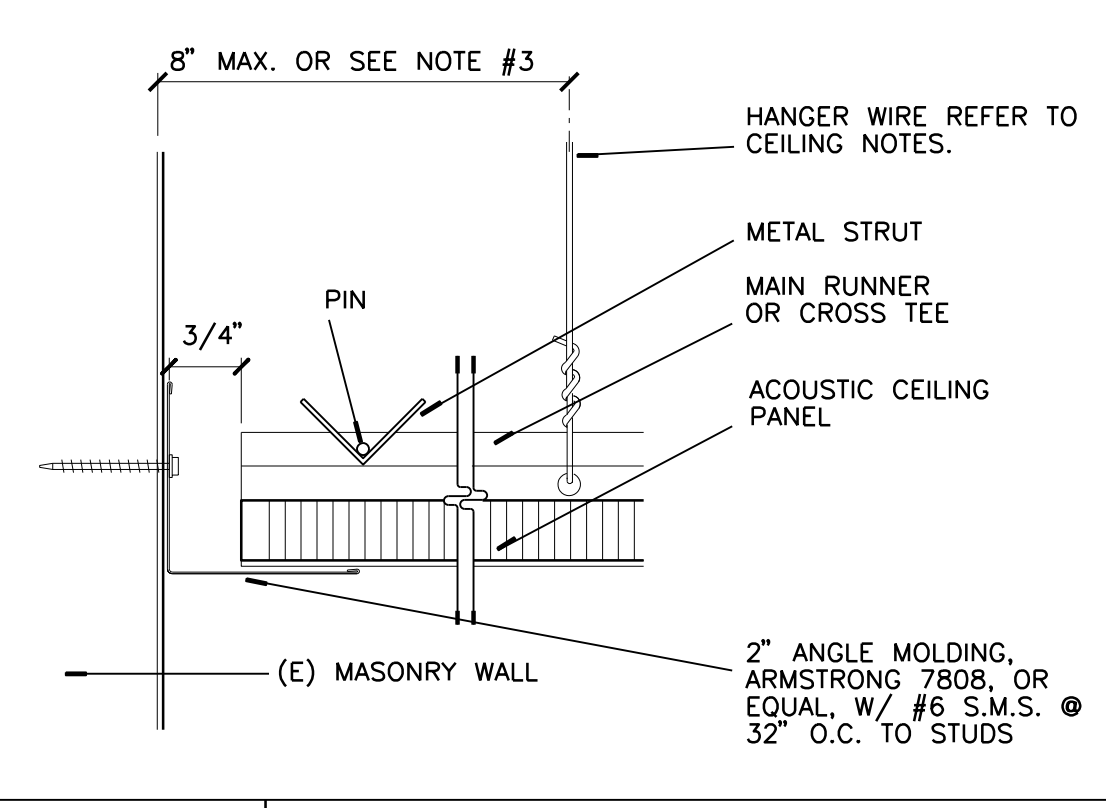
- SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
- WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 200 POUNDS OF TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 440 POUNDS IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
- ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS AND MECHANICAL TERMINALS AND SERVICES, WEIGHING LESS THAN 20 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO NO. 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FEET BY 4 FEET LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
  - ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 LBS. OR MORE AND MECHANICAL TERMINALS AND SERVICES, WEIGHING 20 LBS. OR MORE, MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT NO. 12 GAUGE WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.
  - THE FOUR (4) TAUT NO. 12 GAUGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A NO. 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.
  - PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
- SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY PER FIGURE D3, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCES.
- CLASSIFICATION OF CEILING GRID: HEAVY DUTY
  - MANUFACTURER'S CATALOG NUMBER:
    - MAIN RUNNER: USG-DONN DX26, CHICAGO METALLIC 200 PER ICC-ES ESR 1289, ESR 1308 AND 2282.
    - CROSS RUNNER: USG-DONN DX424, CHICAGO METALLIC 1204 PER ICC-ES ESR 1289, ESR 1308 AND 2282.
    - RUNNER SPLICE: SEISMIC RESTRAINING CLIP SHALL BE PROVIDED AT ALL CROSS TEE INTERSECTIONS.



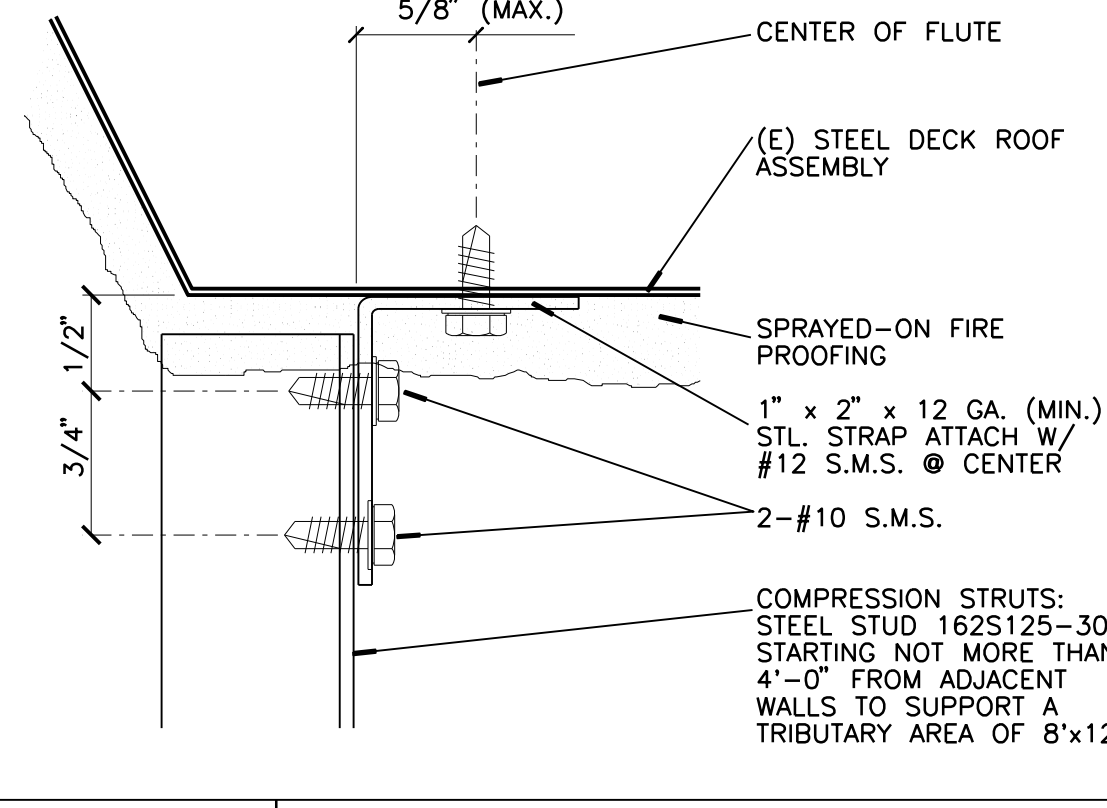
**D2** ACOUS. CEILING SYSTEM AT WALL - SLIP EDGE  
HALF



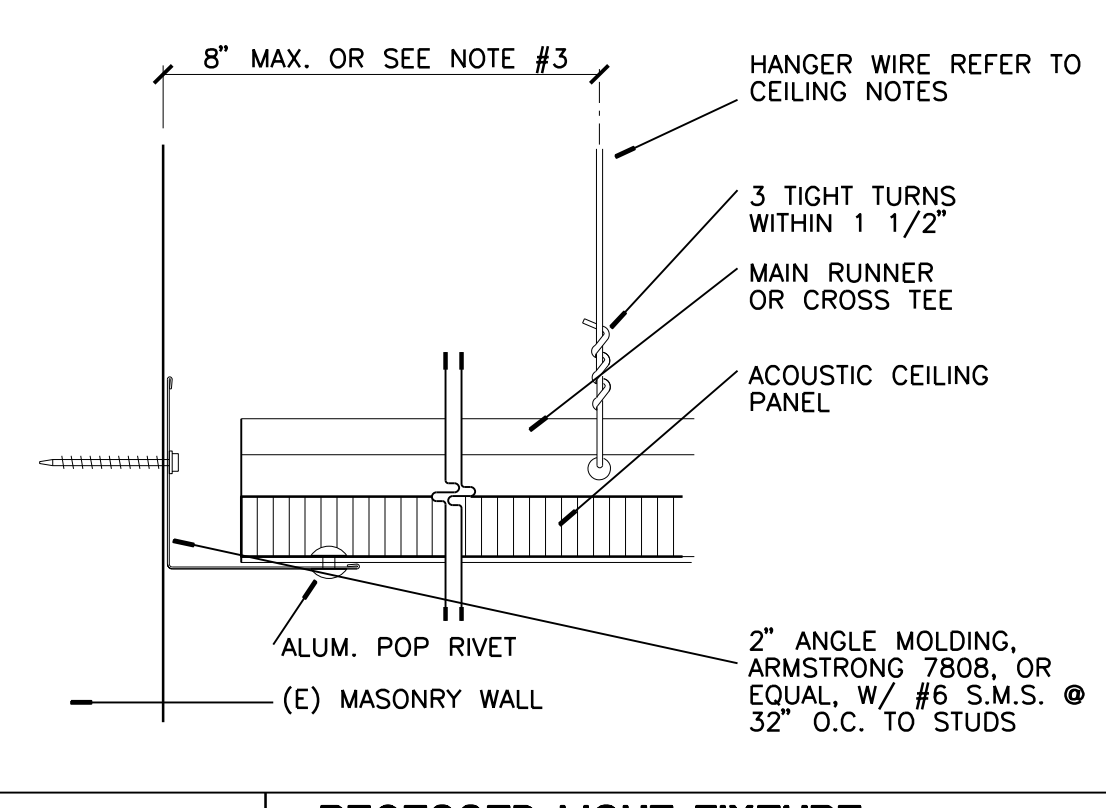
**D3** ACOUS. CEILING SYSTEM ISOMETRIC VIEW - TYPICAL  
N.T.S.



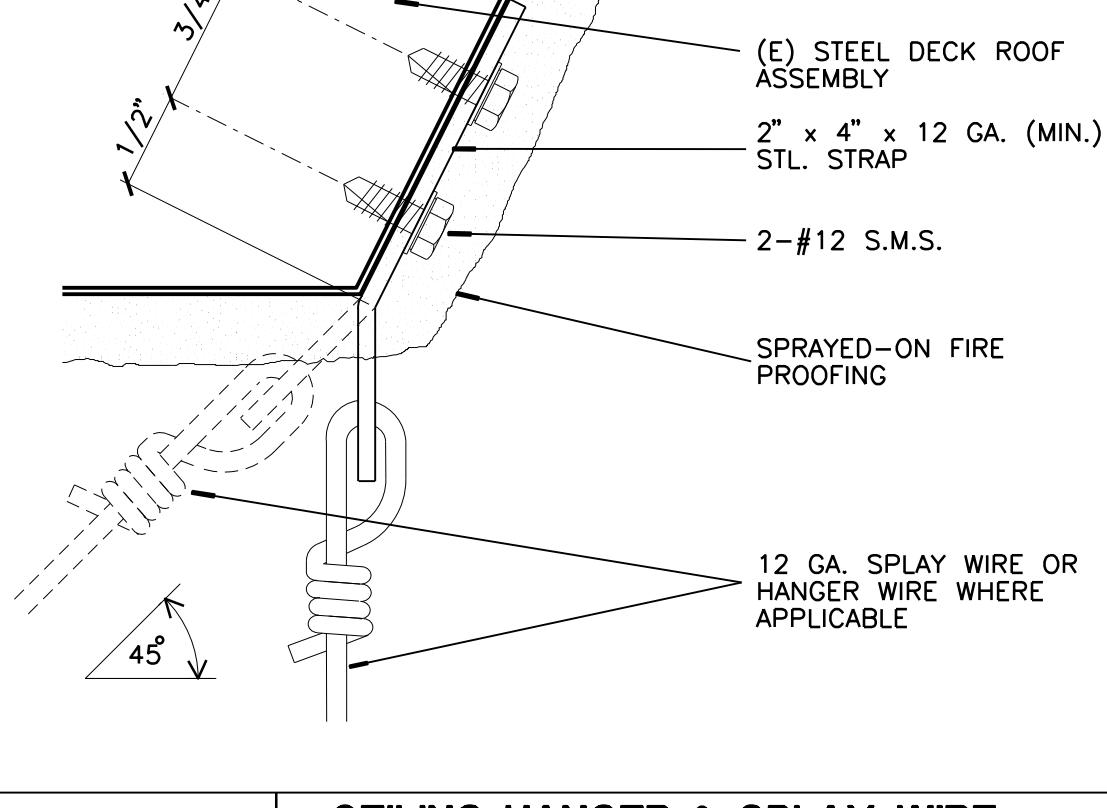
**C2** ACOUS. CEILING SYSTEM AT WALL - FIXED EDGE  
HALF



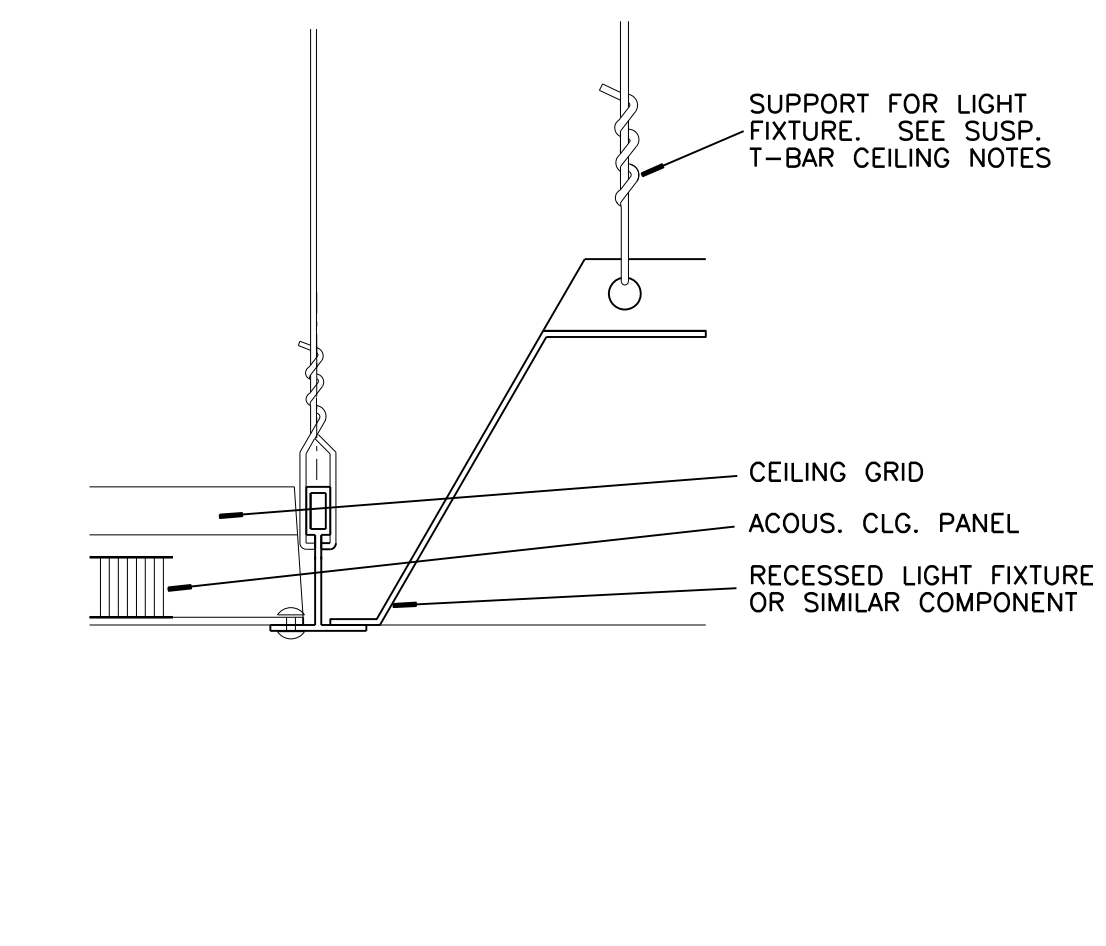
**C3** COMPRESSION STRUT AT DECK  
FULL



**B2** RECESSED LIGHT FIXTURE AT ACOUS. CEILING SYSTEM  
HALF



**B3** CEILING HANGER & SPLAY WIRE AT STRUCTURE ABOVE  
FULL



**A2** CURTAIN TRACK AT CEILING  
HALF



**A3** (NOT USED)

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS				DOOR	DOOR FRAME	CEILING	CEILING HEIGHT	REMARKS
				HEIGHT	FINISH	NORTH	EAST	SOUTH	WEST					
46	PROJECTION ROOM	-	-	-	-	-	-	-	-	-	-	-	-	
48	LECTURE HALL	PTX	WB-1	-	-	VARIABLES	VARIABLES	VARIABLES	VARIABLES	PTSG	PTSG	AP-2	11'-8"	SEE INT. ELEV. & REF. CLG. PLAN FOR MORE INFO.
49	FOYER	VCT	WB-1	-	-	-	-	VARIABLES	-	-	PTSG	PTSG	PTFE	SEE INT. ELEV. & REF. CLG. PLAN FOR MORE INFO.

**ROOM SCHEDULE LEGEND**

AP-1 = ACOUSTICAL PANEL 24"x48"	CT-1 = TILE	WB-1 = TOP SET RUBBER BASE	PTFE = PAINT/FLAT
AP-2 = ACOUSTICAL PANEL 24"x24"	(E), /E = EXISTING	WB-2 = COVED BASE - 6"	PTES = PAINT/EGG-SHELL
AT = ACOUSTICAL TILE	SVF-1 = SHEET VINYL FLOORING	WC-1 = WALL COVERING	PTSG = PAINT/SEM-GLOSS
CPT-1 = CARPET	VCT-1 = VINYL COMPOSITION TILE		PTX = PAINT/EPOXY

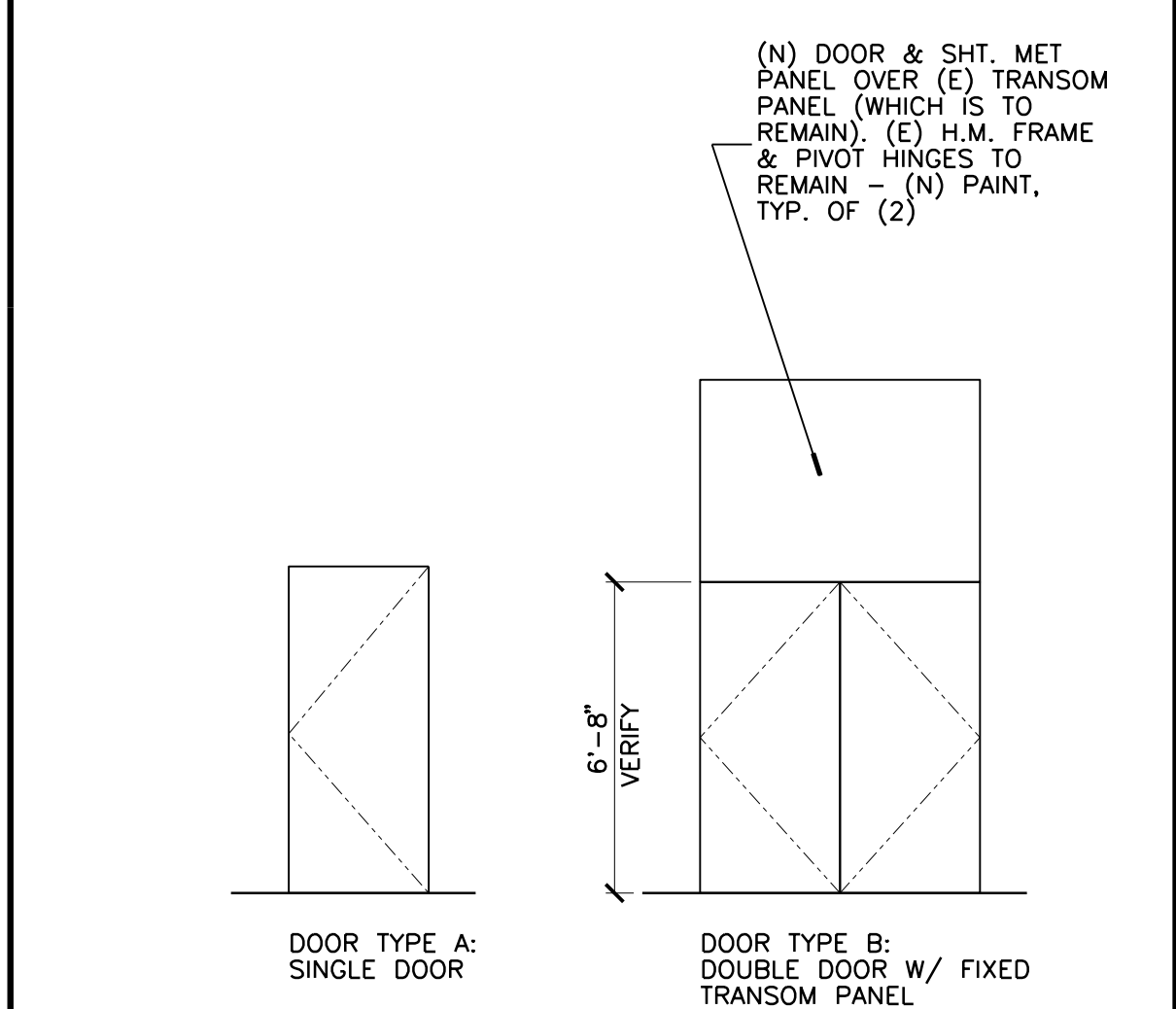
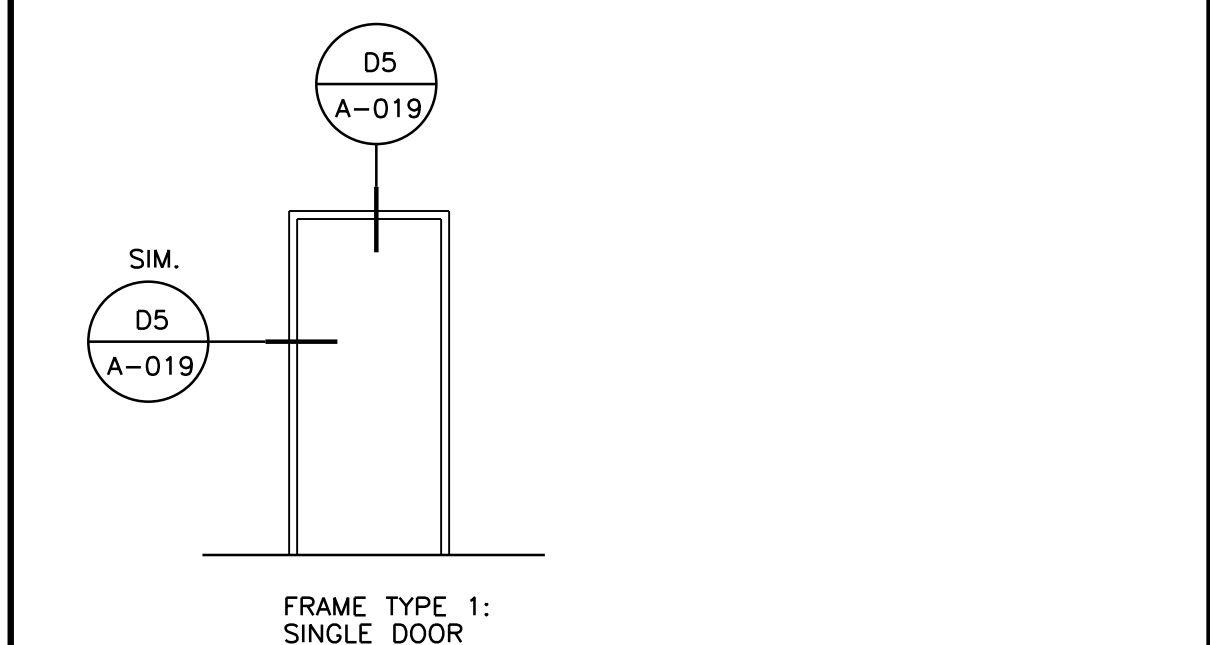
**DOOR SCHEDULE**

DOOR NO.	ROOM NO.	OPENING SIZE	TYPE	CONST.	FACING/ FINISH	GLASS	LOUVER	RATING	FRAME TYPE	FRAME CONST.	HARDWARE	DETAILS					REMARKS
												HEAD	JAMB STRIKE	JAMB HINGE	SILL	NOTE: DOOR RATING IS IN MINUTES	
01	FOYER 49	6'-0" x 7'-0"	-	AL	AL	GL3	-	-	-	1	C2/A-018/A1/A-018	A1/A-018	A1/A-018	A2/A-018	SEE INTERIOR ELEVATIONS. AUTO SLIDING DOOR		
02	FOYER 49	6'-0" x 7'-0"	-	AL	AL	GL3	-	-	-	1	C2/A-018/A1/A-018	A1/A-018	A1/A-018	A2/A-018	SEE INTERIOR ELEVATIONS. AUTO SLIDING DOOR		
03	LECTURE HALL 48	3'-0" x 7'-0"	A	HM	P	-	-	-	1	HM	2	05/A-019/05/A-019	05/A-019	05/A-019			
04	LECTURE HALL 48	6'-0" x 11'-0"	B	HM	P	-	-	45	(E)	HM	3	(E)	(E)	85/A-019			
05	LECTURE HALL 48	6'-0" x 11'-0"	B	HM	P	-	-	45	(E)	HM	3	(E)	(E)	85/A-019			

**DOOR SCHEDULE LEGEND**

AL = ALUMINUM	P = PAINT	MC = MINERAL CORE
(E) = EXISTING	PL = PLASTIC LAMINATE	GL1 = FULLY TEMPERED SAFETY GLASS
WD1 = WOOD/NATURAL STAIN	HM = HOLLOW METAL	GL2 = FULLY TEMPERED PATTERNED GLASS
WD2 = WOOD/PAINT FINISH	SC = SOLID CORE	GL3 = 1" THK INSULATING GLASS

- PER CBC SECTION 11B-404.2.9, MAXIMUM FORCE TO PUSH OR PULL DOORS SHALL NOT EXCEED THE FOLLOWING:
  - A INTERIOR HINGED, SLIDING, FOLDING DOORS - 5 POUNDS
  - B EXTERIOR HINGED DOORS - 5 POUNDS
  - C FIRE DOORS - 15 POUNDS
- PER CBC SECTION 11B-309.4, DOORS THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL HAVE HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS THAT SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL NOT EXCEED 5 LBS.
- PER CBC SECTION 1008.1.9, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- FIRE-RATED AND SMOKE- AND DRAFT-CONTROL DOORS AND FRAMES SHALL BEAR AN APPROVED LABEL OR OTHER IDENTIFICATION PER CBC SECTIONS 715.4.6.1 AND 715.4.6.3. DOORS SHALL BE MAINTAINED SELF-CLOSING OR SHALL BE AUTOMATIC CLOSING BY ACTUATION OF A SMOKE DETECTOR IN ACCORDANCE WITH CBC SECTION 715.4.8.5.
- ALL FIRE-RATED DOORS AND SMOKE- AND DRAFT-CONTROL DOOR ASSEMBLIES SHALL BE PROVIDED WITH AN APPROVED GASKET INSTALLED SO AS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.
- MAIN EXIT DOORS SHALL BE PROVIDED WITH A DURABLE SIGN OF ONE INCH (1") LETTERS ON CONTRASTING BACKGROUND INDICATING, "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED."
- ADDITIONAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT (SINGLE ACTION). THE USE OF THUMB BOLTS IS NOT ALLOWED TO MEET THIS REQUIREMENT, AND CANNOT BE INSTALLED ON DOORS REQUIRED TO HAVE SINGLE ACTION HARDWARE.



**A4** DOOR NOTES  
NONE

**A5** DOOR & FRAME TYPE  
NONE

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Consultants Stamp:

PROJECT TITLE  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**

CONSTRUCTION DOCUMENTS

**REVISIONS**

REV #	DESCRIPTION	DATE

APPROVED  
07/07/2020  
Office of the State Architect, Approved and Paid Only

Consultants Data:

Project Title  
**UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

Scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
Checked by	G.C.	cd approval
UCR project no.	957443	construction release
05/11/20		

Drawing Name  
**DETAIL & SCHEDULE**

Sheet No.  
**A-020**  
of

## GENERAL NOTES

- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
- ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE PART OF THIS CONTRACT.
- EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR.
- ALL RECESSED DEVICES, ETC., MOUNTED IN FIRE RATED CEILING SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING.
- THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTORS.
- EQUIPMENT ANCHORAGE  
THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 1998 CBC SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLAN.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPATIBILITY OF ALL COMMUNICATIONS/SIGNALING SYSTEM DEVICES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH FINISH OF SURFACE TO WHICH IT IS ATTACHED/SUPPORTED TO.
- INSTALL RACEWAY SYSTEMS AS FOLLOWS.
  - RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
  - I.M.C. OR E.M.T. IN ALL INDOOR AREAS.
  - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WALLS.
  - USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
- CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
- ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).
- IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.

## DEMOLITION NOTES

- ALL ELECTRICAL FIXTURES, OUTLETS, DEVICES, ETC., THAT ARE MARKED FOR DELETION, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.
- WHERE EXISTING OUTLET/DEVICES TO REMAIN ARE FED BY OUTLETS BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT OUTLETS IN OPERATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
- ALL EXISTING CONDUITS WITHIN PROJECT AREA FOR LIGHTING FIXTURES, RECEPTACLES, OTHER BRANCH CIRCUITS LOADS AND COMMUNICATIONS/SIGNAL SYSTEMS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE A PART OF THIS CONTRACT.
- IN GENERAL, THE DEMOLITION PLAN SHOWS EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED OR RELOCATED, HOWEVER, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN A REMOVED WALL OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- WHERE EXISTING WALLS ARE REMOVED BY WORK UNDER THIS CONTRACT, EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR AND CONDUCTORS REMOVED FROM THAT POINT BACK TO LAST OUTLET REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS OUTLETS/ DEVICES REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH CIRCUITS/SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "RECORD" DRAWINGS.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION, MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
- EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON PANEL SCHEDULE AS "SPARE".

## ELECTRICAL SYMBOL LIST

	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOOR 3/4" MIN.		LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMERAL AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
	CONDUIT RUN, UNDERGROUND.		JUNCTION BOX.
	CONDUIT STUBBED OUT AND GAPPED. PULL LINE IN PLACE.		2X2 LED LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK.
	FLEXIBLE CONDUIT. SEALTITE WHERE EXPOSED TO WEATHER. REFER TO SPECIFICATIONS FOR USE.		CEILING MOUNTED LED LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK.
	CONDUIT TURNED DOWN.		STEP LIGHT FIXTURE
	CONDUIT TURNED UP.		RECESSED EMERGENCY LIGHTS
	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.		NOTE IDENTIFICATION SYMBOL. NUMBER INDICATES NOTE.
	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.		DETAIL CALLOUT
	EXISTING CONDUIT AND CIRCUIT CONDUCTORS TO REMAIN IN OPERATION.		
	EXISTING CONDUIT AND CIRCUIT CONDUCTORS TO BE REMOVED.		
	EXISTING CONDUIT TO BE ABANDONED IN PLACE. CONDUCTORS TO BE DISCONNECTED AND REMOVED.		
(E)	EXISTING TO REMAIN.		
(R)	EXISTING EQUIPMENT TO BE REMOVED.		
(N)	NEW EQUIPMENT.		
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.		
	DUPLEX RECEPTACLE, FLUSH IN WALL, SPECIFICATION GRADE, GROUNDING TYPE, 20 AMP, 120V., WITH THERMOPLASTIC WALL PLATE TO MATCH DEVICE. MTD. AT +18".		
	EXIT SIGN		
S	DOOR SWITCH		

## LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER CATALOG#	LAMP QTY. & TYPE	FIXTURE WATTAGE	VOLTS	REMARKS
A	DUAL-LITE CL150H25 OR APPROVED EQUAL	(2) 25W HALOGEN (PROVIDED WITH FIXTURE)	50	120	RECESSED EMERGENCY LIGHT FIXTURE WITH 4" SQUARE FLUSH ROTATING DOOR, ROUGH-IN KIT, LAMPS AND INTEGRAL 90 MINUTE BATTERY. CUSTOM DOOR FINISH/COLOR AS SELECTED BY THE ARCHITECT.
B	LITHONIA EDG-1-RMR-EL OR APPROVED EQUAL	LED (PROVIDED WITH FIXTURE)	3	120	WALL MOUNTED ARCHITECTURAL LED EDGE-LIT EXIT SIGN WITH RED LETTERS ON MIRRORRED PANEL AND INTEGRAL 90 MINUTE BATTERY PACK.
C	LITHONIA LIGHTING 04V12-4015E-ADP-EZH-1P840 OR APPROVED EQUAL	4200 LUMEN LED 81 (LxW) 4000K	48	120	RECESSED 2'x2' LED LIGHT FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL LED DRIVER, 3000K TO 5000K COLOR TEMPERATURE, AND INTEGRAL 90 MINUTE 1400 LUMEN EMERGENCY BATTERY BACK-UP WHERE SHADING INDICATED ON PLAN.
D	WINONA LIGHTING NJC0118-D8P-24DJA-TUWH-PROR-2400LM-90CRI-120-K OR APPROVED EQUAL	2400 LUMEN LED 15 (LxW) 4000K	32	120	24" ROUND SURFACE MOUNTED LED LIGHT FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL LED DRIVER, 3000K TO 5000K COLOR TEMPERATURE, AND 90 COLOR RENDERING INDEX. * = FINISH AS SELECTED BY ARCHITECT
E	BEGA 93 018-K4-BLK OR APPROVED EQUAL	27W LED 24 LUMENS 4000K	27	120	RECESSED MOUNTED LED STEP LIGHT FIXTURE. FIXTURE SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE, LED DRIVER, WHITE SAFETY GLASS, LOUVERS, AND BLACK FINISH.
F	TIVOLI VLT-P-03-40-12-P8U OR APPROVED EQUAL	LED 6325 LUMENS 4000K	115	120	SURFACE MOUNTED LED STEP-LIGHT, PROVIDED WITH 4000K COLOR TEMPERATURE, AND LED DRIVER.

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### REVISIONS

REV #	DESCRIPTION	DATE

APPROVED  
OFFICE OF THE CLERK OF THE SUPERIOR COURT  
COUNTY OF RIVERSIDE  
DATE: 07/07/2020

Project Title  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager  
**SCOTT DONNEL**

scale AS NOTED	sd approval
Drawn by J.D.	sd approval
Checked by S.C.	sd approval 05/11/20
UCR project no. 957443	construction release
dia number	

Drawing Name  
**GENERAL NOTES & SYMBOL LIST**

Sheet No.  
**E-001**  
OF 1



UCR

UNIVERSITY OF CALIFORNIA RIVERSIDE

OFFICE OF ARCHITECTS & ENGINEERS  
1223 UNIVERSITY AVENUE, SUITE 240  
RIVERSIDE, CA. 92507  
TEL: (951) 827-4706 FAX: (951) 827-2402



Institutional Designs & Architectural Services  
3803 10th Street, Riverside, CA 92501-3521  
Tel: (951) 342-3135 Fax: (951) 342-3137

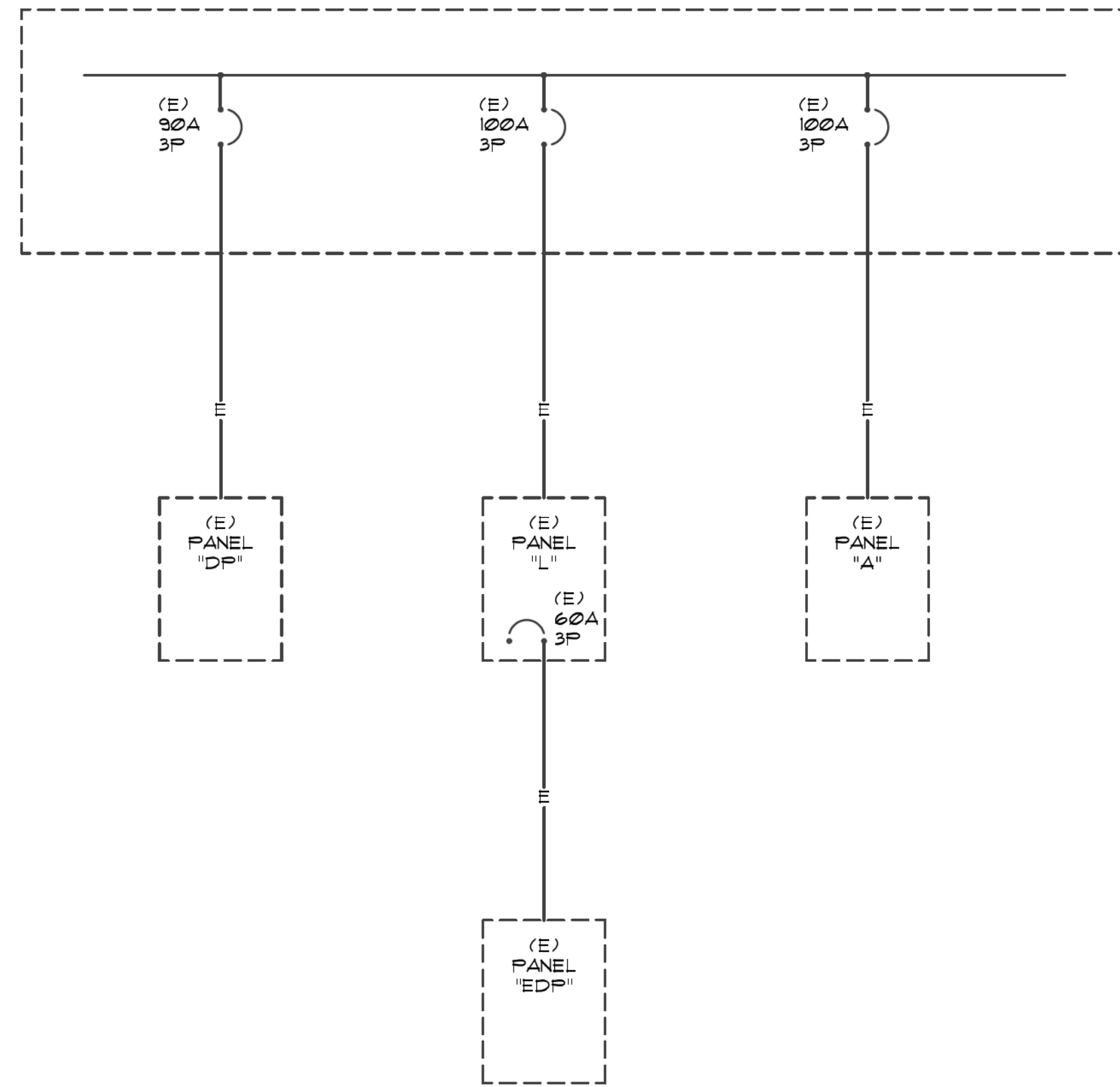
Architect's Data:



Architect's Stamp:

Consultants Stamp:

(E) DISTRIBUTION PANEL  
400A BUS, 120/208V, 3P, 4W



SINGLE LINE DIAGRAM

PANEL "A"											
VOLTAGE: 208/120V-4-WIRE					MAIN BREAKER: 100A		SCA: EXISTING				
LOCATION: ELEVATOR LOBB					BUS SIZE: 100A		MOUNT: SURFACE				
ENTRY: BOTTOM											
DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
LAPTOP OUTLETS	1	20	1		8			1440			
LAPTOP OUTLETS	3	20	1		8				1440		
LAPTOP OUTLETS	5	20	1		8					1440	
LAPTOP OUTLETS	7	20	1		13			2340			
LAPTOP OUTLETS	9	20	1		9				1620		
LAPTOP OUTLETS	11	20	1		10					1800	
LAPTOP OUTLETS	13	20	1		8			1440			
LAPTOP OUTLETS	15	20	1		8				1440		
LAPTOP OUTLETS	17	20	1		8					1440	
AUTO SLIDING DOORS	19	20	1								
SPARE	21	20	1								
SPARE	23	20	1								
SPACE	25	20	1								
SPACE	27	20	1								
SPACE	29	20	1								
SUB TOTAL VOLT/AMPS								5220	4500	4680	
LAPTOP OUTLETS	2	20	1		8			1440			
LAPTOP OUTLETS	4	20	1		8				1440		
LAPTOP OUTLETS	6	20	1		8					1440	
LAPTOP OUTLETS	8	20	1		6			1080			
LAPTOP OUTLETS	10	20	1		8				1440		
LAPTOP OUTLETS	12	20	1		7					1260	
SPARE	14	20	1								
LAPTOP OUTLETS	16	20	1		8				1440		
LAPTOP OUTLETS	18	20	1		8					1440	
LAPTOP OUTLETS	20	20	1		8			1440			
LAPTOP OUTLETS	22	20	1		10				1800		
LOBBY LTS	24	20	1	14						476	
SPACE	26	20	1								
SPACE	28	20	1								
SPACE	30	20	1								
SUB TOTAL VOLT/AMPS								3960	6120	4616	
TOTAL VOLT/AMPS								9180	10620	9296	
TOTAL AMPS/PHASE								77	89	77	
CONNECTED	29096	VA									
25% OF MTR		VA									
25% OF LCL	0	VA									
CALCULATED	29096	VA	80.76	AMPS	80.76	ACTUAL AMPS					

PROJECT TITLE  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL  
CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

APPROVED  
C. BRESNICE  
Office of Planning, Design & Construction Services  
Building, Planning and Construction Division  
UNIVERSITY OF CALIFORNIA RIVERSIDE

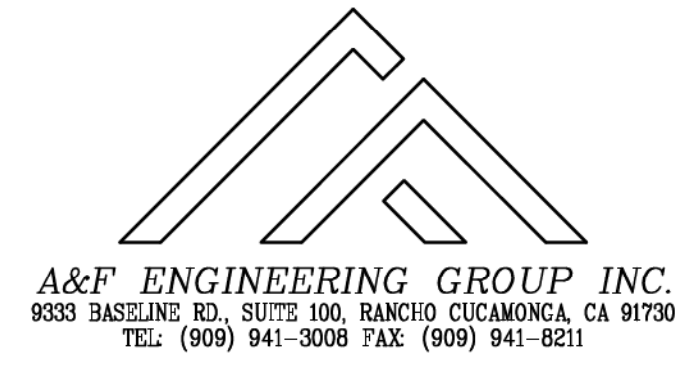
OFFICE OF THE DEPUTY FIRE ENGINEER, APPROVED FIRE AND PAWC ONLY  
07/07/2020  
Approval of this plan does not authorize or require any contractor to perform any work. The contractor is responsible for obtaining all necessary permits and for compliance with all applicable codes and regulations.

Consultants Data:  
Project Title  
UCR  
DMFI PROJECTS 2019  
PHYSICS 2000 RENEWAL

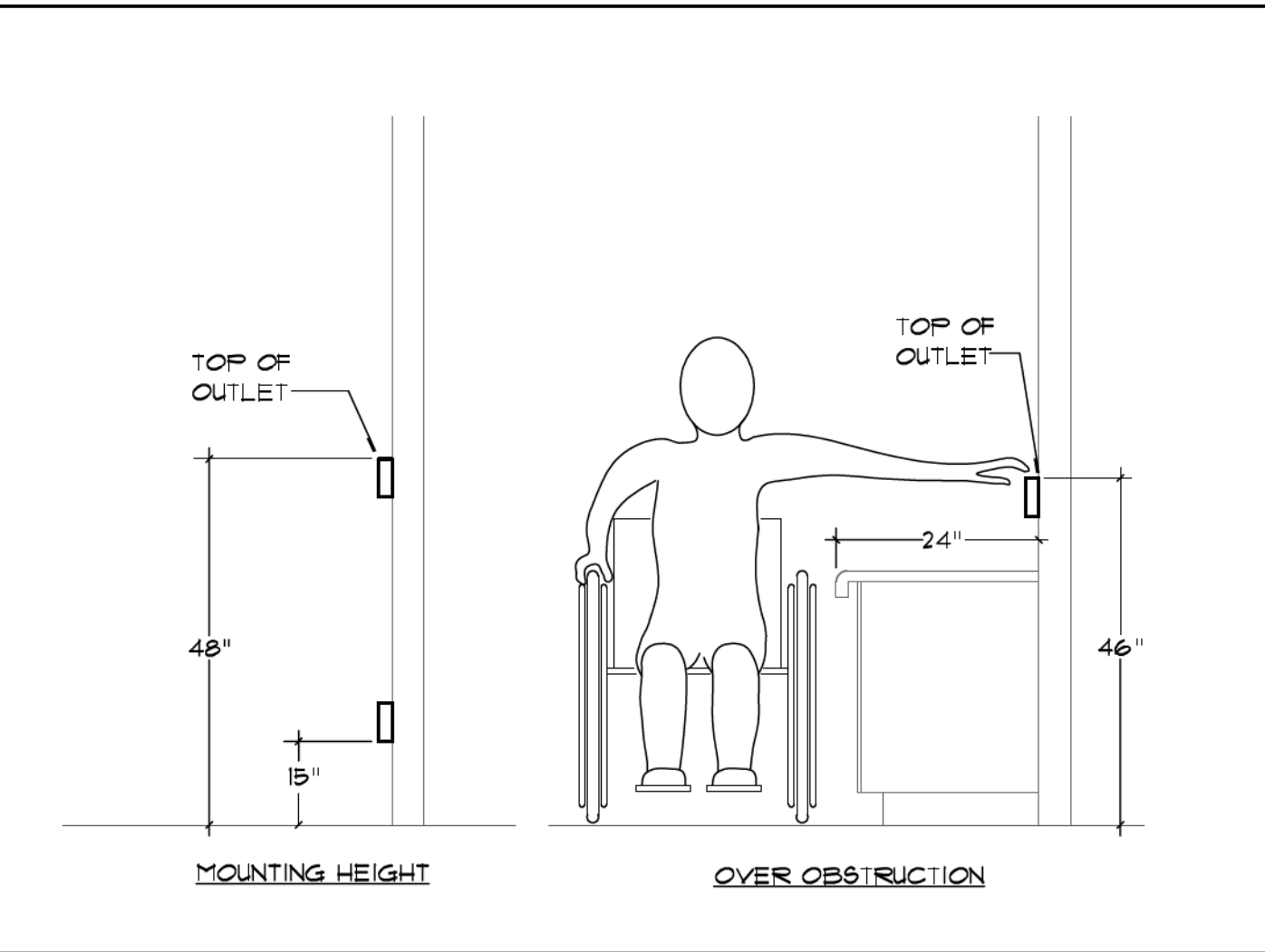
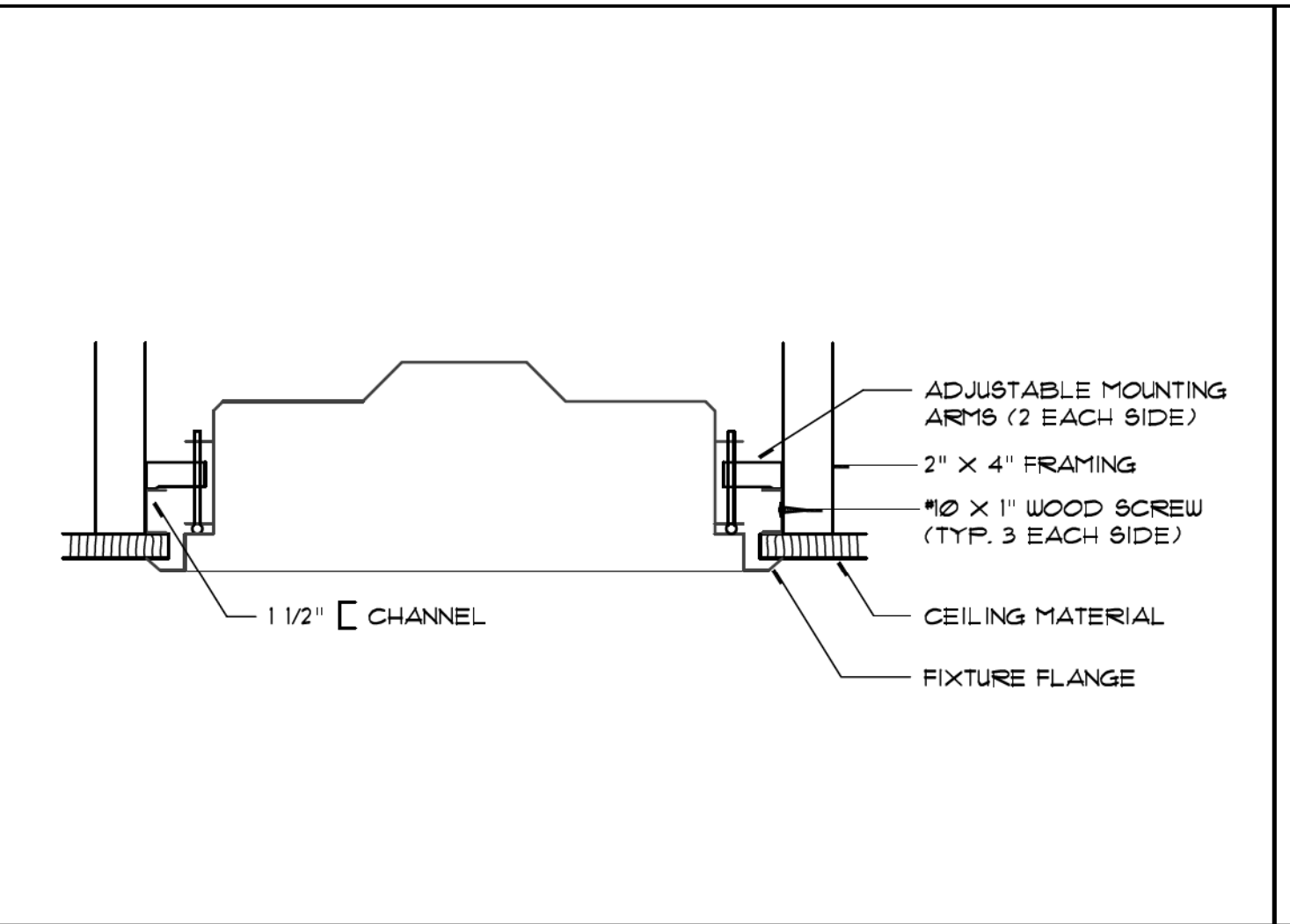
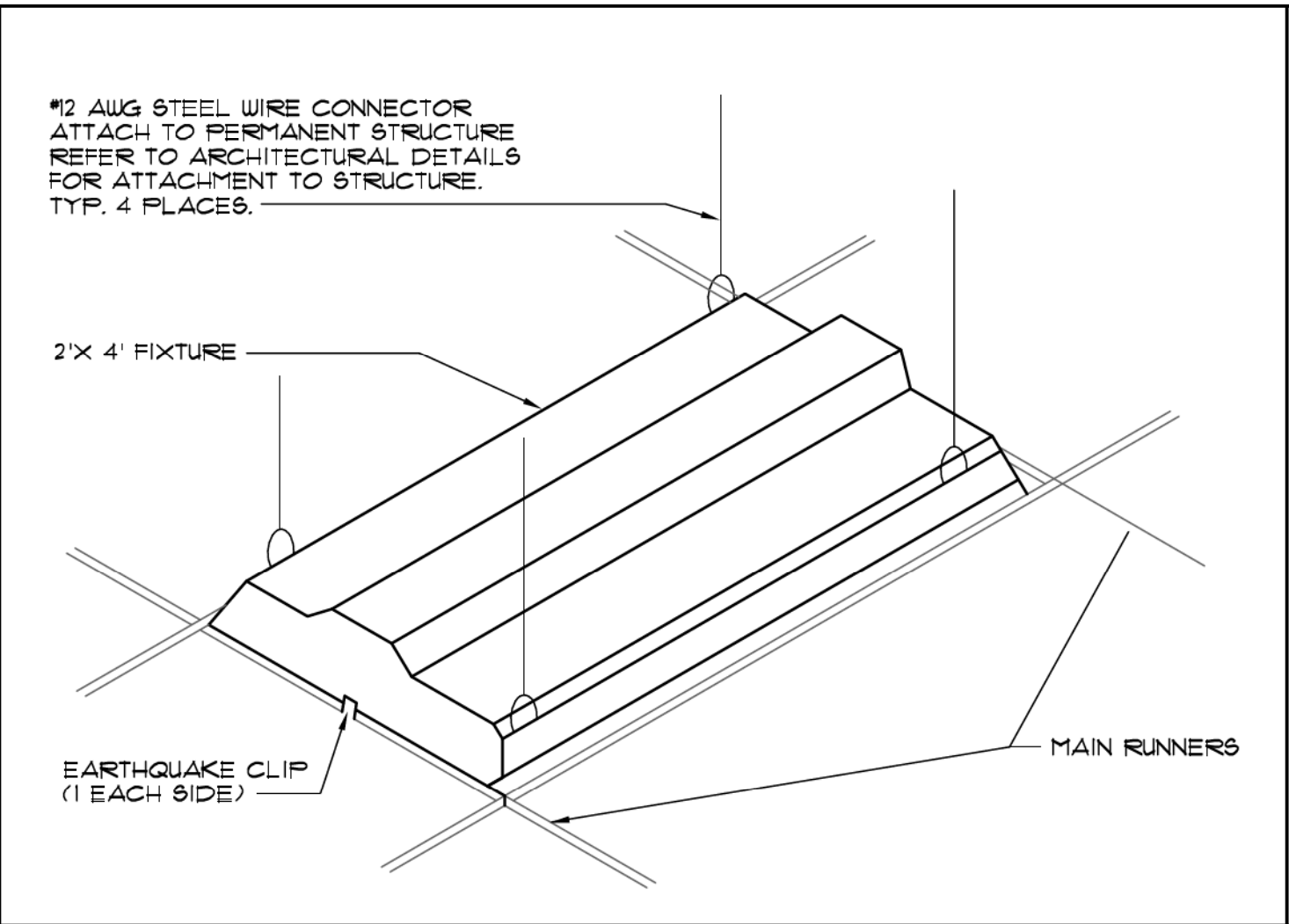
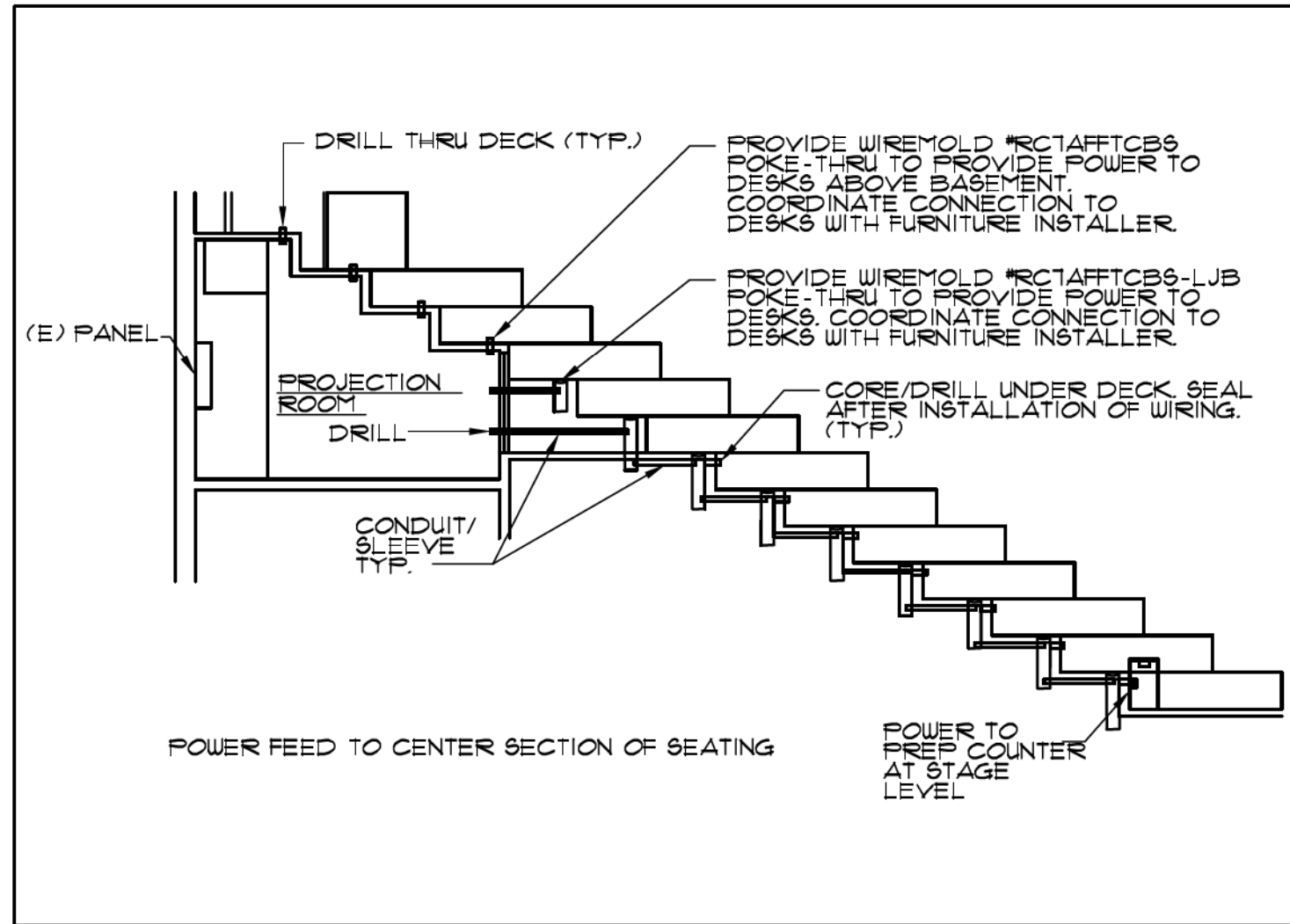
UCR project manager  
SCOTT DONNEL

scale	AS NOTED	sd approval
Drawn by	J.D.	sd approval
Checked by	S.C.	cd approval 05/11/20
UCR project no.	957443	construction release
dia number		

Drawing Name  
PANELS & SINGLE LINE DIAGRAM  
Sheet No.  
E-002  
OF 1



A&F ENGINEERING GROUP INC.  
9333 BASSELINS RD., SUITE 100, RANCHO CUCAMONCA, CA 91730  
TEL: (909) 941-3008 FAX: (909) 941-8211

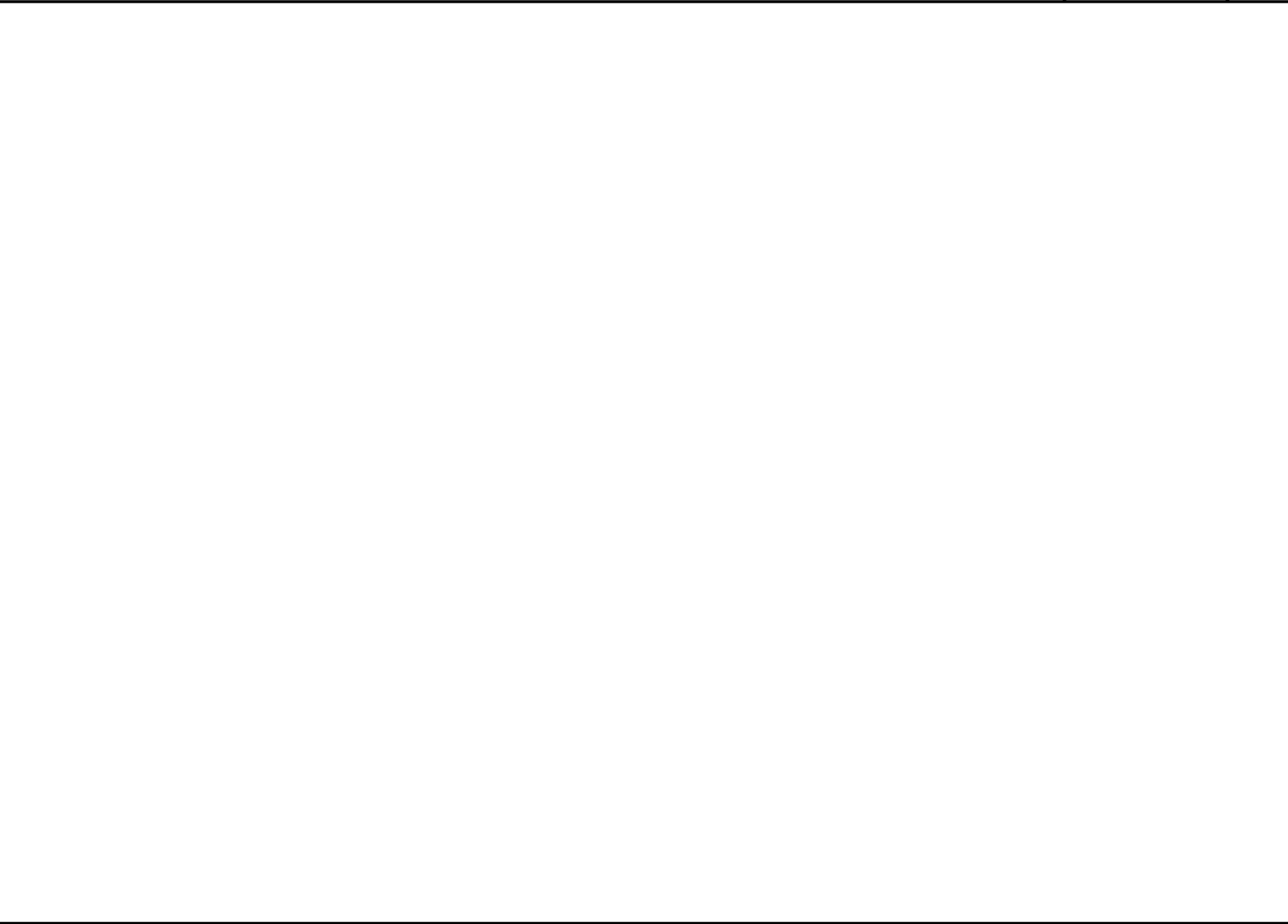
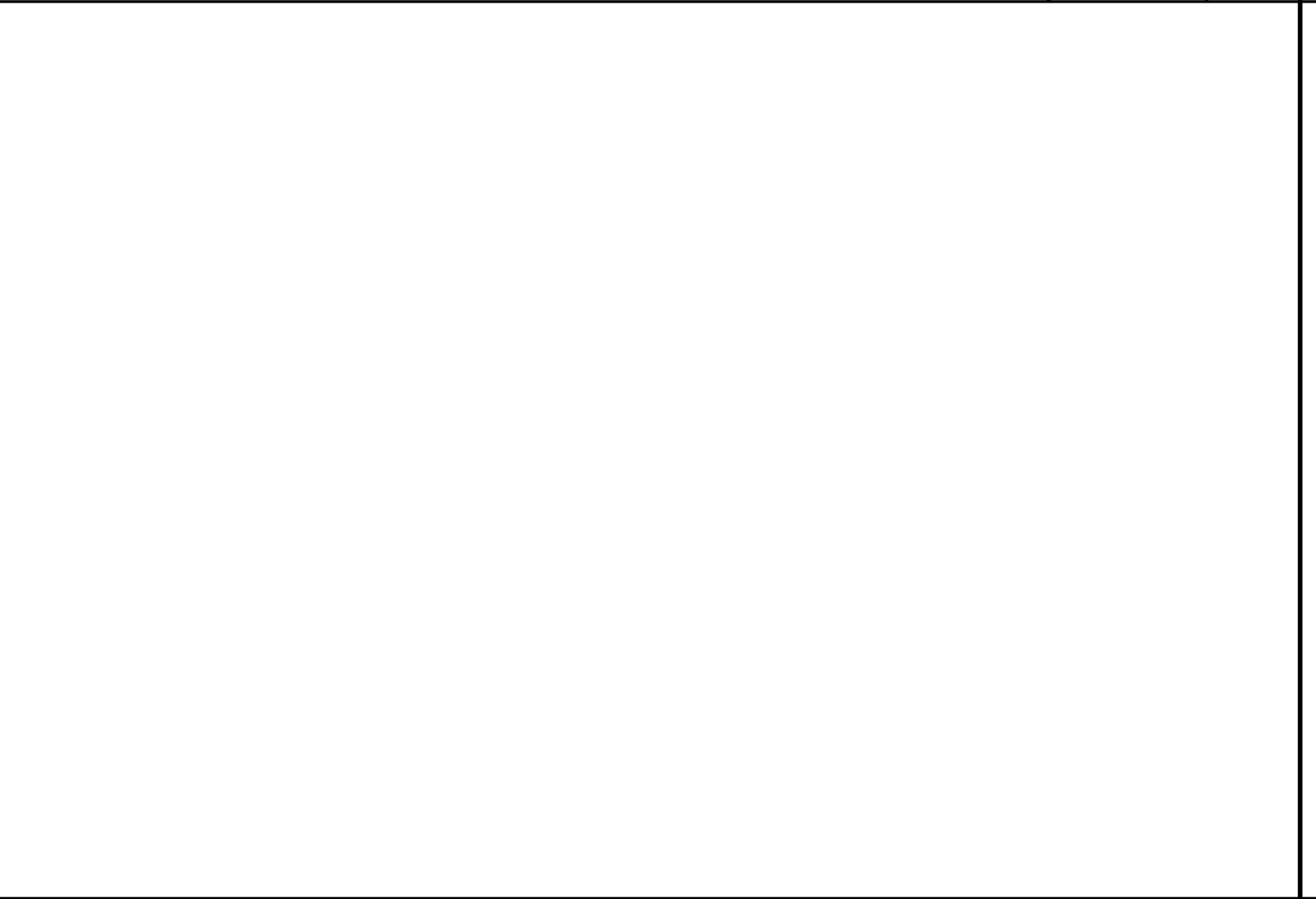
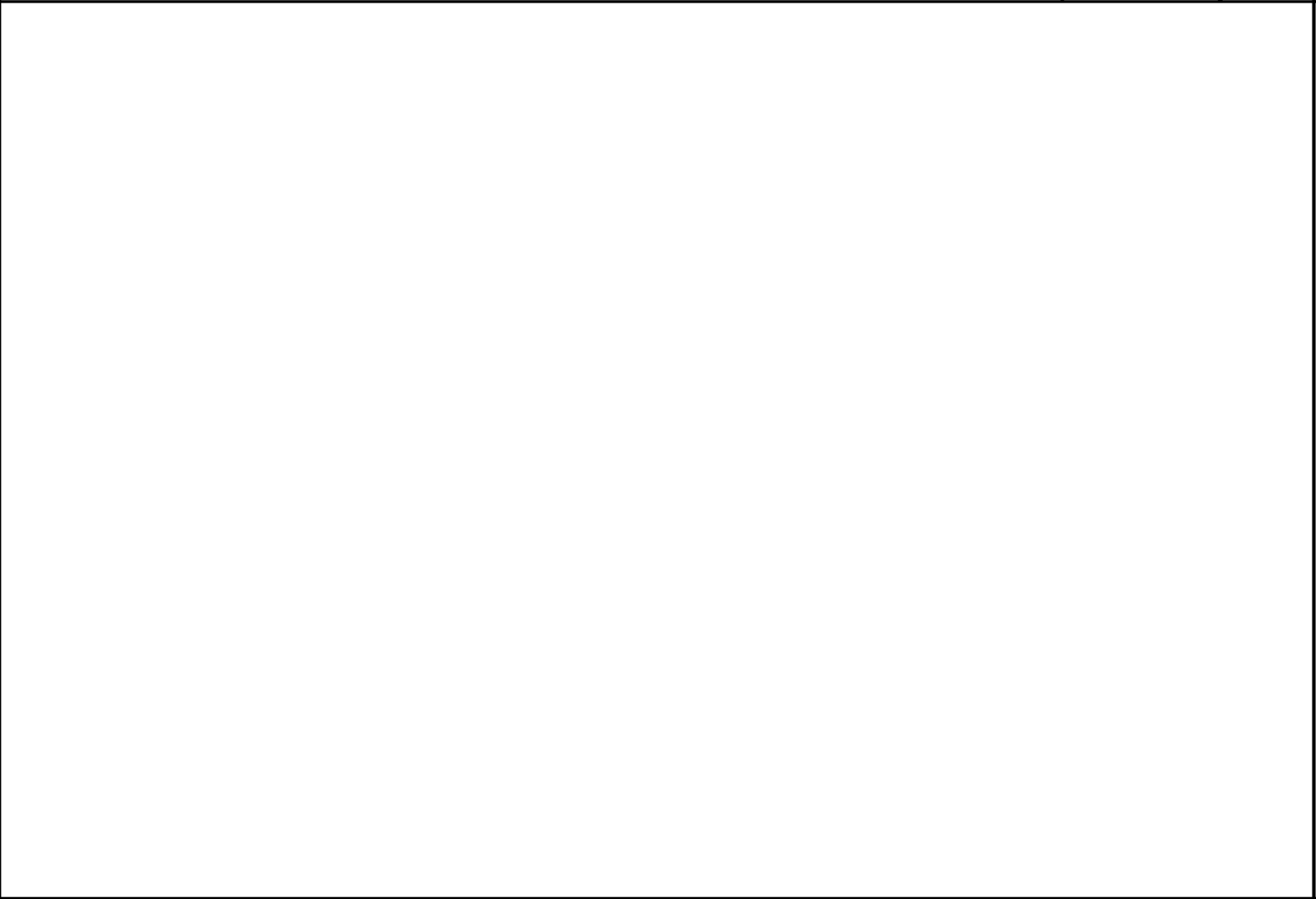
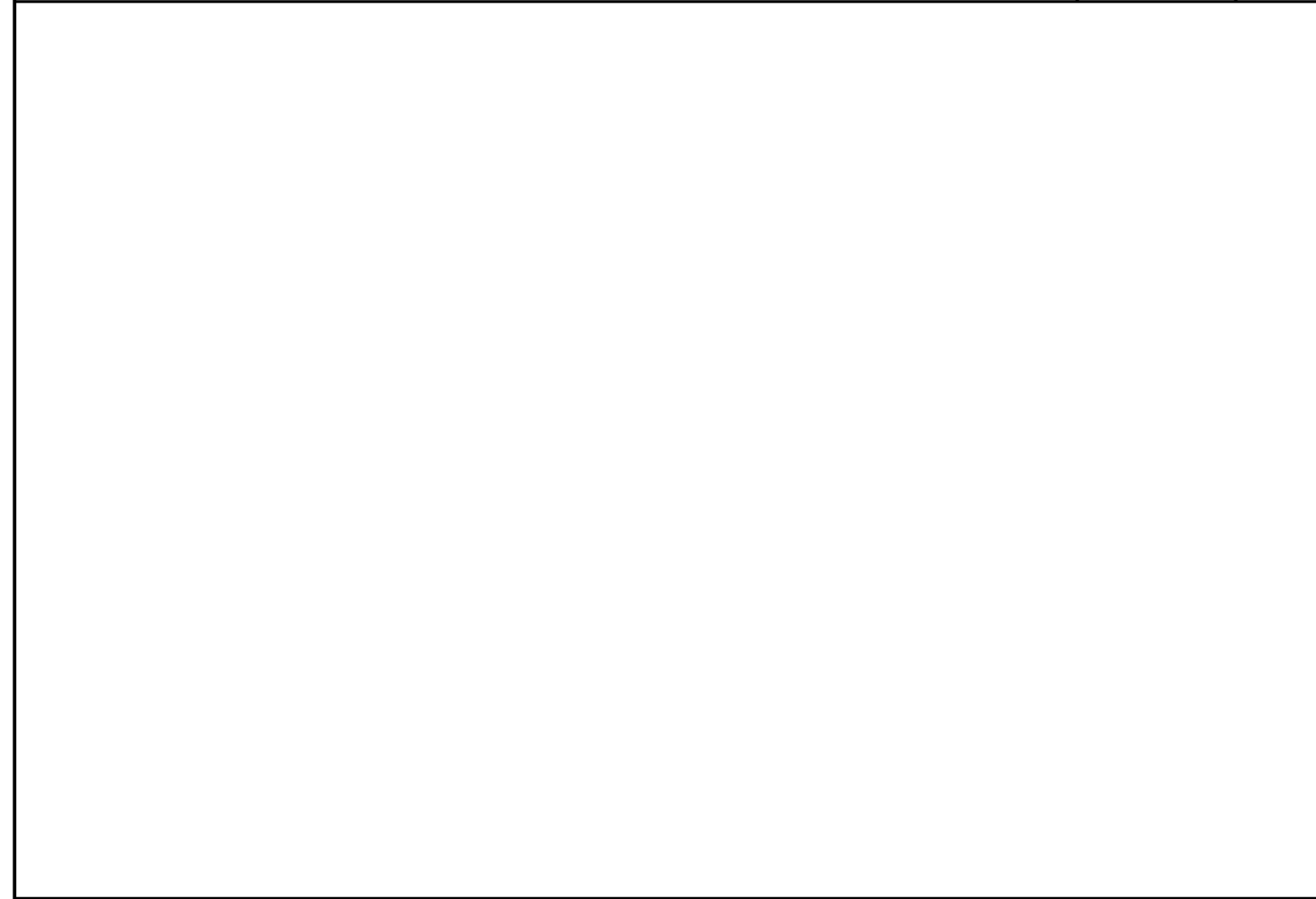


FEED TO CENTER SEATING ROWS SCALE: NONE 1

LIGHT FIXTURE - T-BAR MOUNTED SCALE: NONE 2

LIGHT FIXTURE - GYP CEILING SCALE: NONE 3

DEVICE MOUNTING HEIGHTS SCALE: NONE 4

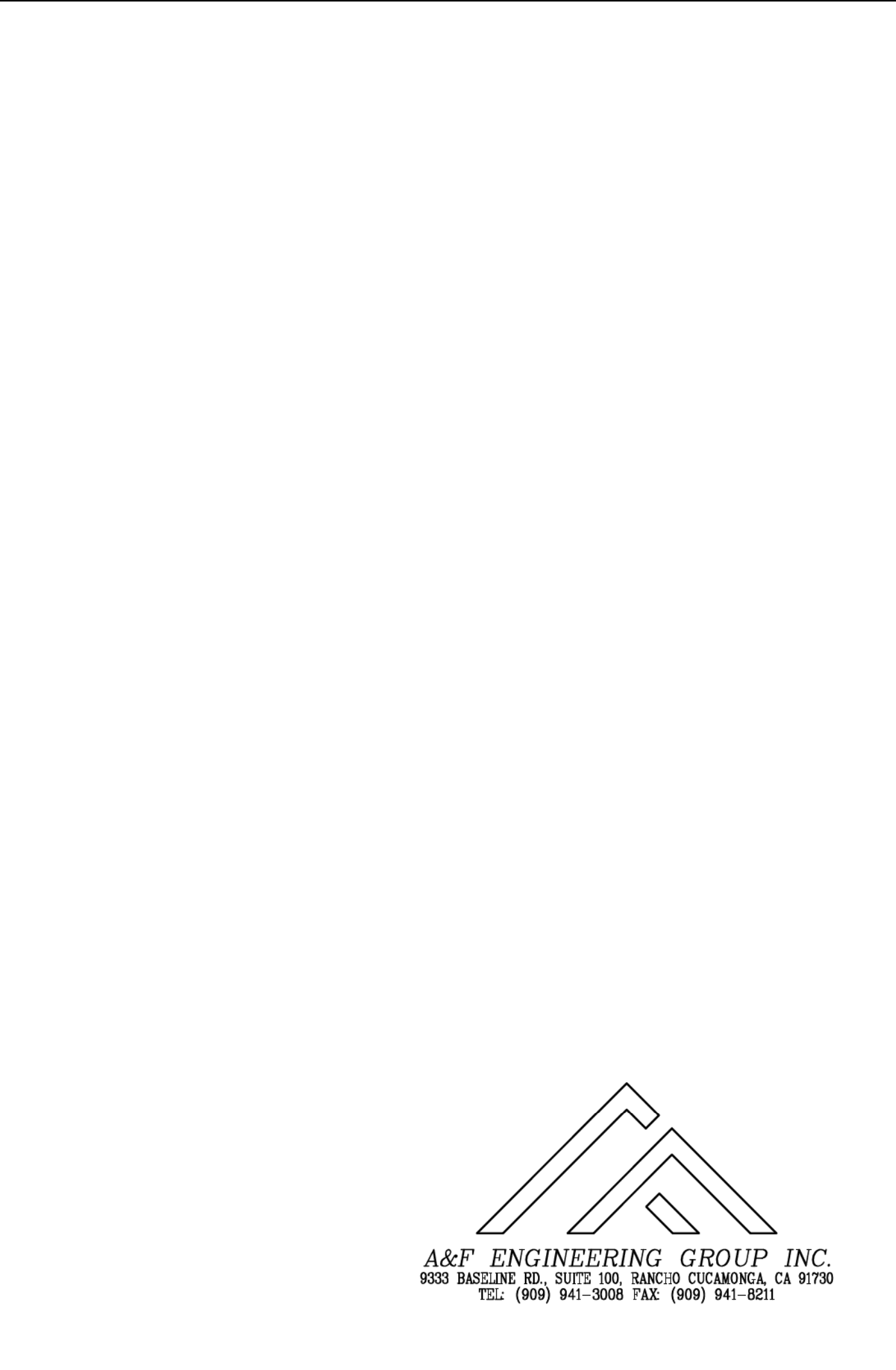
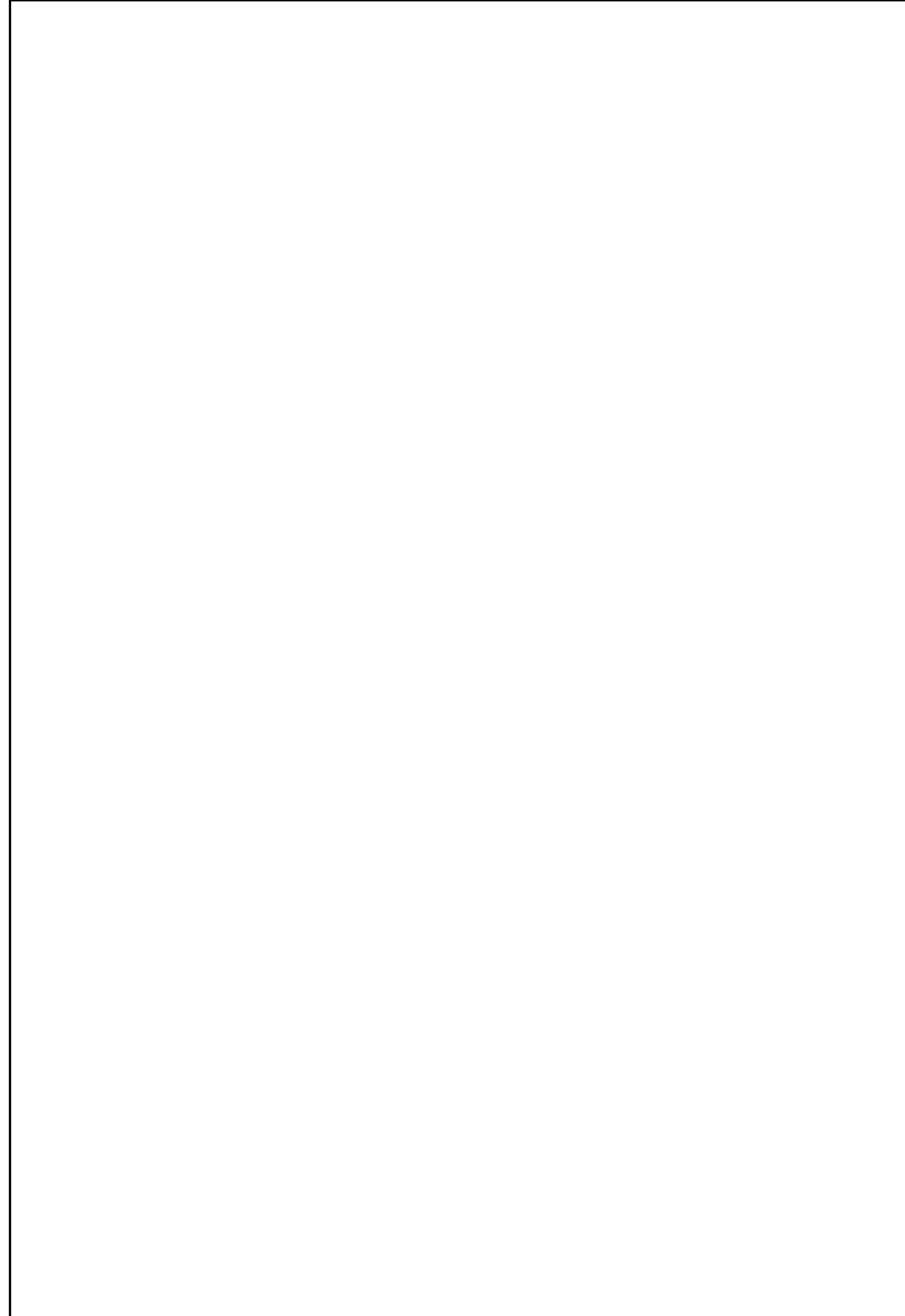


NOT USED SCALE: NONE 5

NOT USED SCALE: NONE 6

NOT USED SCALE: NONE 7

NOT USED SCALE: NONE 8



OFFICE OF ARCHITECTS & ENGINEERS  
1223 UNIVERSITY AVENUE, SUITE 240  
RIVERSIDE, CA, 92507  
TEL: (951) 827-4706 FAX: (951) 827-2402



Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**  
**CONSTRUCTION DOCUMENTS**

REVISIONS		
REV #	DESCRIPTION	DATE

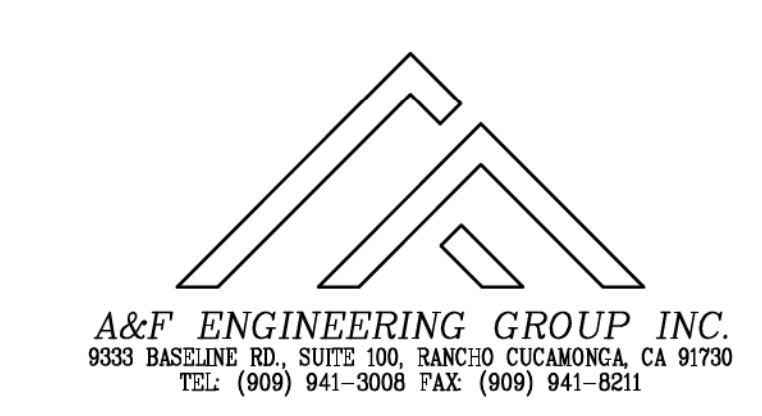
APPROVED  
E. SOTO  
07/07/2020  
Office of Planning, Design & Construction Services  
Building, Safety and Compliance Division  
CAMPUS BUILDING PERMITS  
Reviewed by: [Signature]  
Reviewed by: [Signature]

Consultants Data:  
Project Title  
**UCR**  
**DMFI PROJECTS 2019**  
**PHYSICS 2000 RENEWAL**

UCR project manager <b>SCOTT DONNEL</b>	
scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval 05/11/20
UCR project no. 957443	construction release
dia number	

Drawing Name  
**ELECTRICAL**  
**DETAILS**

Sheet No.  
E-003  
OF 1



STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 This document is used to demonstrate compliance with requirements in §110.0, §110.12(a), §180.0, §180.1, §180.4, and §191.0(b) for indoor lighting scopes using the prescriptive path.  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 1 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**A. GENERAL INFORMATION**

01 Project Location (city)	Riverside	04 Total Conditioned Floor Area (ft²)	4,167
02 Climate Zone	10	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply)	<input type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> School <input type="checkbox"/> Support Areas <input type="checkbox"/> Parking Garage <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Relocatable <input type="checkbox"/> Healthcare <input type="checkbox"/> Other (Write in)	06 # of Stories (Habitable Above Grade)	1

**B. PROJECT SCOPE**  
 This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §149.6 or §141.0(b) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
G1	G2	G3
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
<input type="checkbox"/> New Lighting System	Area Category Method	Area (ft²)
<input type="checkbox"/> New Lighting System - Parking Garage	Area Category Method	Area (ft²)
<b>Total Area of Work (ft²)</b>	<b>4167</b>	<b>0</b>

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 4 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**  
 \*NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
 EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §140.6(a)(2)

	13
	Plan Sheet Showing Daylit Zones:

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**  
 Each area complying using the Complete Building or Area Category Methods per §140.6(a) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(d) are being used.

Conditioned Spaces	G1	G2	G3	G4	G5	G6
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	PAF
Main Entry Lobby	Main Entry Lobby	0.85	690	585.5	No	No
Classroom, Lecture, Training, Vocational Areas	Classroom, Lecture, or Training Vocational Area	0.7	3,477	2,433.9	No	No
<b>TOTALS:</b>			<b>4,167</b>	<b>3,020.4</b>	See Tables I, or P for detail	

**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**  
 This section does not apply to this project.

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**  
 This section does not apply to this project.

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**  
 This section does not apply to this project.

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**  
 This section does not apply to this project.

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 7 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Luis E. Piroche  
 Company: A&F Engineering Group, Inc.  
 Address: 9320 Baseline Rd, Suite C  
 City/State/Zip: Rancho Cucamonga, CA 91701  
 Phone: (909)941-3008

Documentation Author Signature: [Signature]  
 Signature Date: 2020-05-08  
 ICA/HERS Certification Identification (if applicable):

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 10 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance will be made available with the building permit application, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Rolando E. Sobello  
 Company: A & F Engineering Group, Inc.  
 Address: 9320 Baseline Rd, Suite C  
 City/State/Zip: Rancho Cucamonga CA 91701  
 Date Signed: 2020-05-08  
 License: E17229  
 Phone: (909)941-3008

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 2 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**C. COMPLIANCE RESULTS**  
 If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(1)	Allowed Lighting Power per §140.6(b) (Watts)				Total Allowed (Watts)	Adjusted Lighting Power per §140.6(a) (Watts)			Compliance Results
	01	02	03	04		05	06	07	
Complete Building	§140.6(a)(1)	Area Category	Additional	Tailored	3,020.4	Total Designed (Watts)	PAF Lighting Control Credits	Total Adjusted (Watts)	COMPLIES
(See Table I)	(See Table I)	(See Table J)	(See Table K)	(+)		(See Table L)	(See Table P)	(Includes Adjustments)	
Unconditioned	3,020.4	0	0	0	3,020.4	533.6	0	533.6	COMPLIES

Controls Compliance (See Table H for Details): COMPLIES  
 Rated Power Reduction Compliance (See Table Q for Details): COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. INDOOR LIGHTING FIXTURE SCHEDULE**  
 This table includes all permanent, designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces									
G1	G2	G3	G4	G5	G6	G7	G8	G9	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire¹	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector
C	34w LED	No	No	34	IAS Lamp	14	No	475	Pass Fail

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 5 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS**  
 This section does not apply to this project.

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**  
 This section does not apply to this project.

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**  
 This section does not apply to this project.

**Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS**  
 This section does not apply to this project.

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**  
 This section does not apply to this project.

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**  
 This section does not apply to this project.

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 3 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

F	1.2w LED	No	No	1.2	IAS Lamp	48	No	57.6	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES									533.6	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(b)(4) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.  
 ²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §140.6(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

**G. MODULAR LIGHTING SYSTEMS**  
 This section does not apply to this project.

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**  
 This table includes lighting controls for conditioned and unconditioned spaces. When a control having a \* is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls	01	02	03
Mandatory Demand Response §110.12(c)		Shut-off controls §130.1(c)	Field Inspector
Requires > 10,000 SF		Whole building Auto Time Switch	Pass Fail
			<input type="checkbox"/> <input type="checkbox"/>

Area Level Controls	04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut Off Controls §130.1(c)	Primary/Sky Light Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(e)	Field Inspector	Pass Fail
Foyer	Main Entry Lobby	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	<input type="checkbox"/> <input type="checkbox"/>	
Lecture Hall	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	<input type="checkbox"/> <input type="checkbox"/>	

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

STATE OF CALIFORNIA  
**Indoor Lighting**  
 NRCC-LTI-4 CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTI-4  
 Project Name: UCR Physics 2000 Renewal Report Page: (Page 6 of 7)  
 Project Address: 900 University Ave Date Prepared: 5/8/2022

**T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.  
 Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/12014/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-IT-01-E - Must be submitted for all buildings	Pass Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-IT-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-IT-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-IT-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-IT-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> <input type="checkbox"/>

**U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E.  
 Additional Remarks: These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/12014/24/attcp/providers.html

Yes	No	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	<input type="checkbox"/> <input type="checkbox"/>

Registration Number: CA Bulking Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: Report Version: 2019.0.001  
 Registration Provider: Energysoft  
 Schema Version: rev 20190401  
 Report Generated: 2020-05-08 14:51:18

Building Permit B19-132

UNIVERSITY OF CALIFORNIA RIVERSIDE

OFFICE OF ARCHITECTS & ENGINEERS

1223 UNIVERSITY AVENUE, SUITE 240  
 RIVERSIDE, CA 92507  
 TEL: (951) 827-4706 FAX: (951) 827-2402

Institutional Design & Architectural Services  
 3803 10th Street, Riverside, CA 92501-3521  
 Tel: (951) 342-3135 Fax: (951) 342-3137

Architect's Data:

Architect's Stamp: [Blank]  
 Consultants Stamp: [Blank]

PROJECT TITLE

UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL

CONSTRUCTION DOCUMENTS

**REVISIONS**

REV #	DESCRIPTION	DATE

APPROVED  
 UCR RIVERSIDE  
 07/07/2020

Consultants Data:

Project Title  
 UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL

UCR project manager  
 SCOTT DONNEL

scale AS NOTED	sd approval
Drawn by J.D.	sd approval
Checked by S.C.	sd approval 05/11/20
UCR project no. 957443	construction release
dia number	

Drawing Name: TITLE 24 COMPLIANCE FORMS  
 Sheet No: E-004 OF 1

A&F ENGINEERING GROUP INC.  
 9333 BASELINE RD., SUITE 100, RANCHO CUCAMONCA, CA 91700  
 TEL: (909) 941-3008 FAX: (909) 941-8211



OFFICE OF ARCHITECTS & ENGINEERS
1223 UNIVERSITY AVENUE, SUITE 240
RIVERSIDE, CA 92507
TEL: (951) 827-4706 FAX: (951) 827-2402



Institutional Designs & Architectural Services
3803 10th Street, Riverside, CA 92501-3521
Tel: (951) 342-3135 Fax: (951) 342-3137

Architect's Data:



Architect's Stamp: Consultants Stamp:

PROJECT TITLE
UCR
DMFI PROJECTS 2019
PHYSICS 2000 RENEWAL
CONSTRUCTION DOCUMENTS

REVISIONS

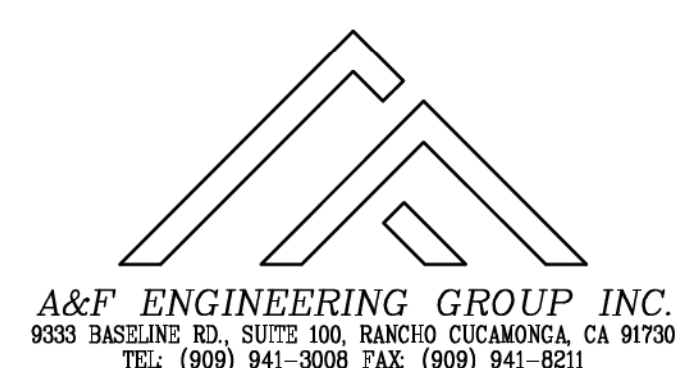
Table with 3 columns: REV #, DESCRIPTION, DATE

APPROVED stamp and CONSULTANTS DATA section

Project Title
UCR
DMFI PROJECTS 2019
PHYSICS 2000 RENEWAL

UCR project manager SCOTT DONNEL
Table with columns: scale, AS NOTED, sd approval, etc.

Drawing Name: TITLE 24 COMPLIANCE FORMS
Sheet No: E-005 OF 1



A&F ENGINEERING GROUP INC.
9333 BASILINS RD., SUITE 100, RANCHO CUCAMONCA, CA 91700
TEL: (909) 941-3008 FAX: (909) 941-8211

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 3 of 7)
Includes project info, compliance results table, and notes.

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 4 of 7)
Includes registration info and project details.

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 5 of 7)
Includes existing conditions and declaration of required certificates.

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 6 of 7)
Includes declaration of required certificates of acceptance.

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 7 of 7)
Includes documentation author's declaration statement.

OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 2 of 7)
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OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 10 of 7)
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OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 1 of 7)
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Architect's Date:

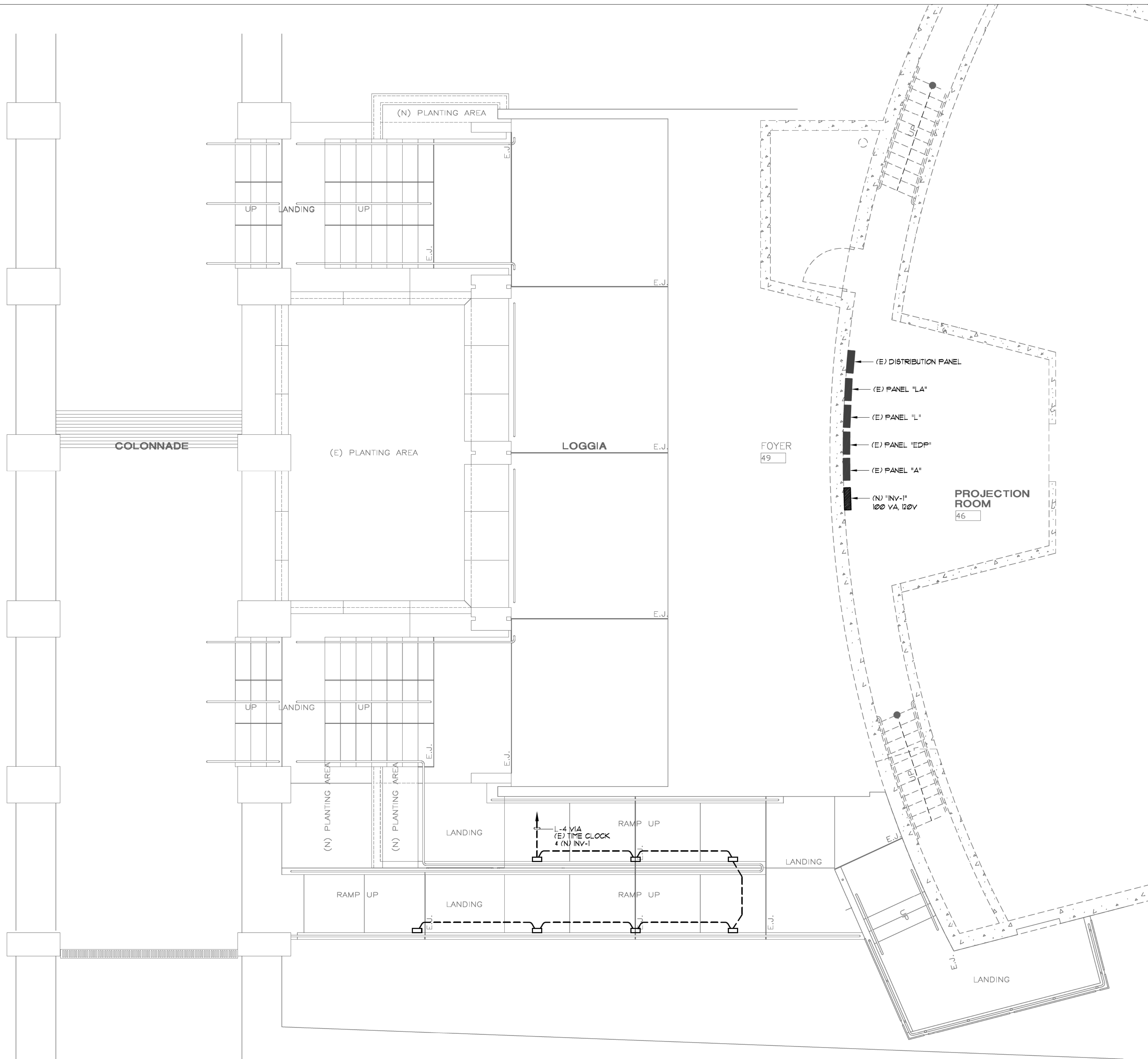


Architect's Stamp:

Consultants Stamp:

PLAN NOTES:

- 1 REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E001, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
- 2 CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF UNDERGROUND CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
- 3 IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
- 4 REFER TO DRAWING E001, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.
- 5 CONTRACTOR TO MEET AND COORDINATE WITH THE TITLE 24 ACCEPTANCE TESTER PRIOR TO THE BEGINNING OF THE PROJECT TO VERIFY ALL TITLE 24 ACCEPTANCE TEST REQUIREMENTS AND DOCUMENTS TO BE COMPLETED. CONTRACTOR SHALL PROVIDE, COMPLETE AND SUBMIT ALL REQUIRED TITLE 24 ACCEPTANCE TEST DOCUMENTS AS REQUIRED BY THE T24 ACCEPTANCE TESTER.



SITE PLAN

1/4" = 1'-0" 1

PROJECT TITLE

UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL  
 CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

**APPROVED**  
 T. RIVERSIDE  
 Civil/Planning, Design & Construction Specialties, Inc.  
 Planning, Safety and Construction Division  
 CAMPUS BUILDING PERMIT

OFFICE OF THE DEPUTY CHIEF OF POLICE, APPROVED FOR FIRE AND PUBLIC ONLY  
 07/07/2020

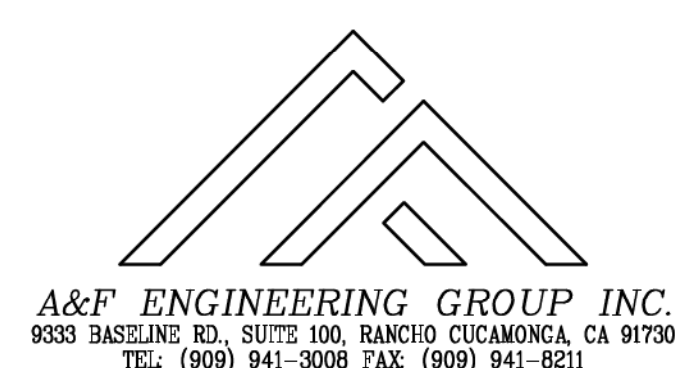
Approved by: [Signature]  
 For and on behalf of: [Signature]

Consultants Data:  
 Project Title  
 UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL

UCR project manager  
**SCOTT DONNEL**

scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval 05/11/20
UCR project no. 957443	construction release
dao number	

Drawing Name: SITE PLAN  
 Sheet No.: E-100 OF 1



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 9333 BASSELING RD., SUITE 100, RANCHO CUCAMONCA, CA 91730  
 TEL: (909) 941-3008 FAX: (909) 941-8211



UCR

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OFFICE OF ARCHITECTS & ENGINEERS

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Architect's Data:

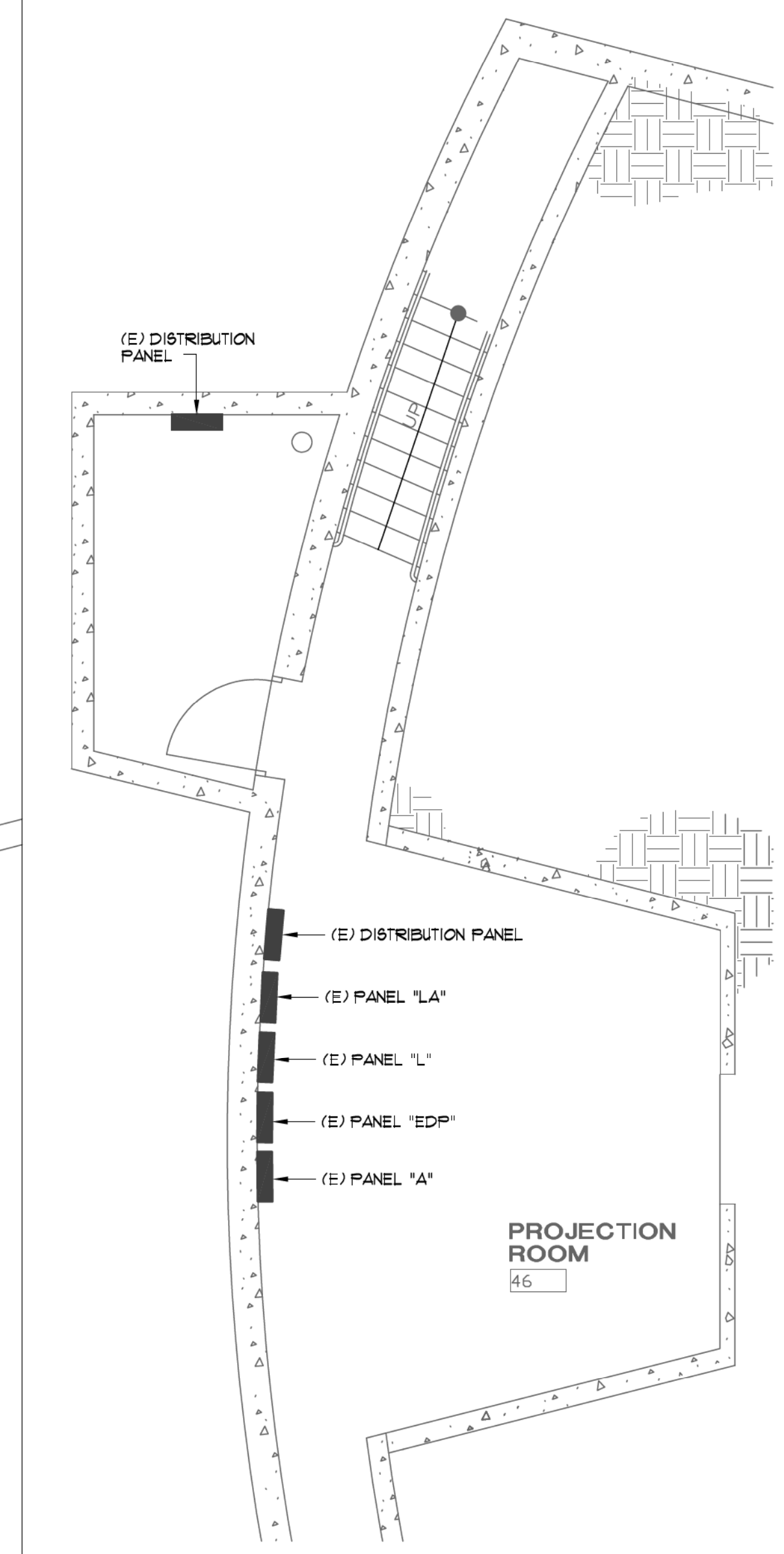
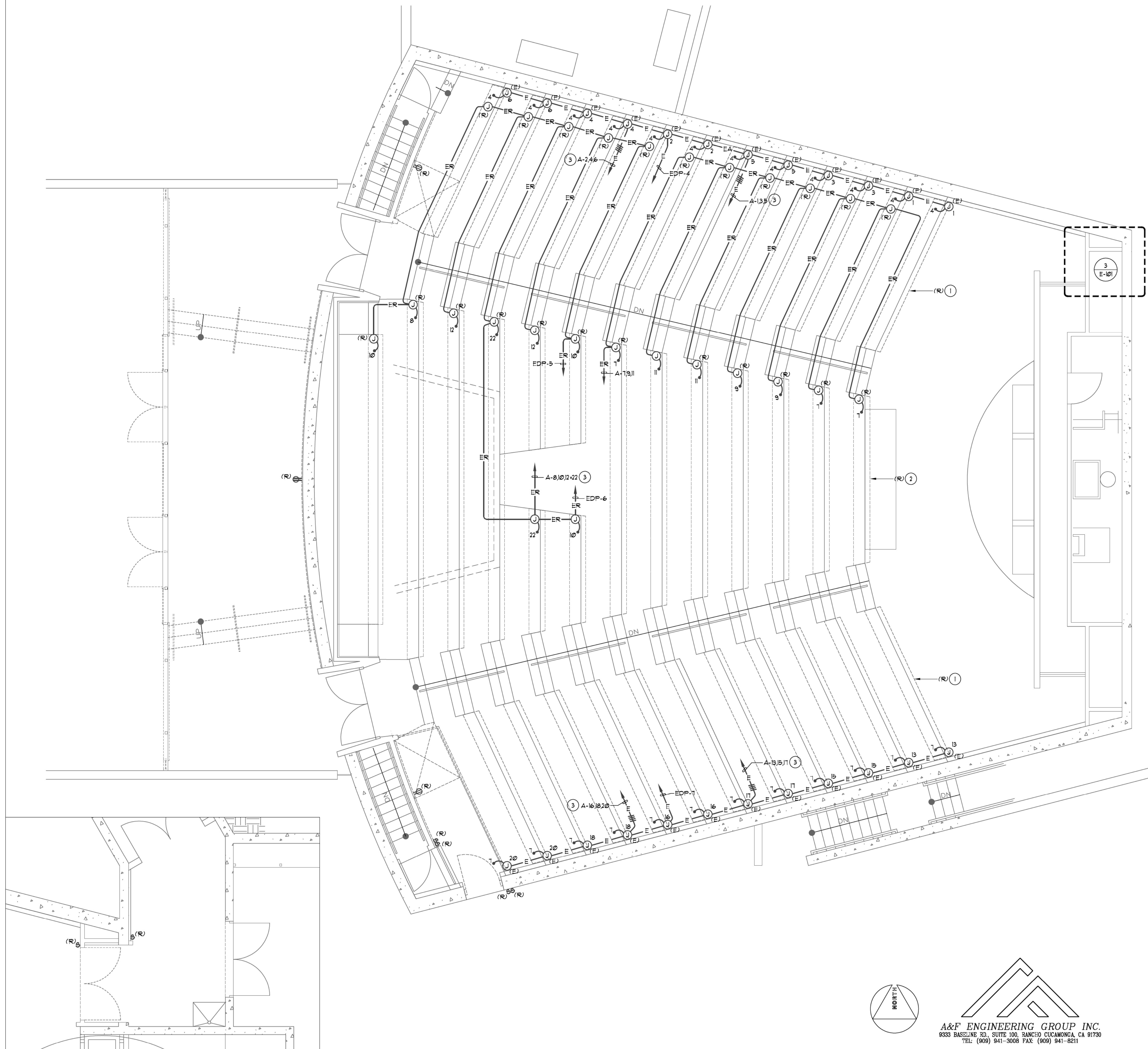


Architect's Stamp:

Consultants Stamp:

PLAN NOTES

- 1 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING RECEPTACLES/FIXTURES, DISCONNECT AND REMOVE CONDUIT AND CIRCUIT CONDUCTORS BACK TO THE SERVING J-BOX/CONDUIT BODY AT WALL. PROTECT CIRCUIT CONDUCTORS IN PLACE AT THE WALL J-BOX/CONDUIT BODY.
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING RECEPTACLES/FIXTURES, DISCONNECT AND REMOVE CONDUIT AND CIRCUIT CONDUCTORS BACK TO THE CONDUIT HOME-RUN TO THE SERVING PANEL. PROTECT CIRCUIT CONDUCTORS IN PLACE AT THE CONDUIT HOME-RUN LOCATION. TYPICAL FOR CENTER/MIDDLE SEATING ROWS.
- 3 EXISTING CIRCUITS IDENTIFIED ON PLAN TO REMAIN ARE TO BE RE-USED AND PROVIDE POWER TO THE NEW FURNITURE INDICATED ON THE ARCHITECTURAL PLANS.
- 4 ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED. ALL TRACED CIRCUITS WHICH ARE TO REMAIN IN OPERATION SHALL BE IDENTIFIED ON THE SERVING BRANCH CIRCUIT PANEL DIRECTORY. CONTRACTOR SHALL PROVIDE NEW UPDATED TYPED PANEL DIRECTORIES.
- 5 REFER TO REMODEL PLANS FOR ADDITIONAL REQUIREMENTS.
- 6 REFER TO GENERAL NOTES AND DEMOLITION NOTES, SHEET E-01, FOR ADDITIONAL REQUIREMENTS.



PROJECT TITLE

UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL  
 CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE



07/07/2020

Consultants Data:

Project Title  
 UCR  
 DMFI PROJECTS 2019  
 PHYSICS 2000 RENEWAL

UCR project manager SCOTT DONNEL

scale AS NOTED	sd approval
Drawn by J.D.	dd approval
Checked by S.C.	cd approval
UCR project no. 957443	05/11/20
dia number	construction release

Drawing Name  
 1ST FLOOR DEMO. PLAN  
 Sheet No.  
 E-101  
 OF 1

ENLARGED AUTO. DOOR 1/4" = 1'-0" 3

1ST FLOOR DEMO. PLAN 1/4" = 1'-0" 1

BASEMENT DEMO PLAN 1/4" = 1'-0" 2





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OFFICE OF ARCHITECTS & ENGINEERS

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Architect's Date:



Architect's Stamp:

Consultants Stamp:

PROJECT TITLE

UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

APPROVED 07/07/2020

OFFICE OF THE CHIEF OF ENGINEERING, APPROVED FOR PERMITS ONLY

Approved of this plan does not constitute or represent approval or disapproval from applicable regulatory agencies or other governmental entities. The use of approval plans shall be limited to the project and all other similar projects.

Consultants Data:

Project Title UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL

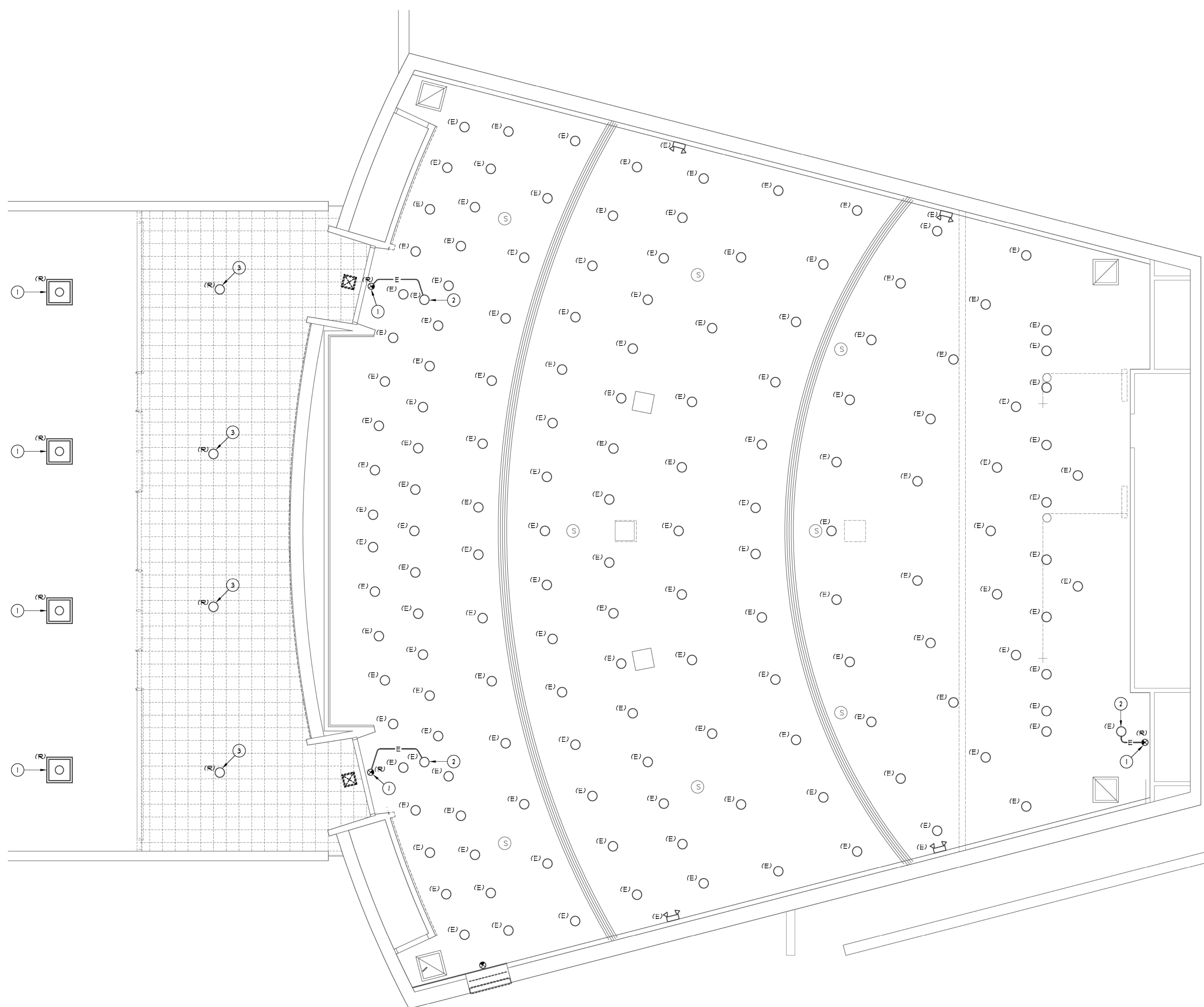
UCR project manager SCOTT DONNEL

scale AS NOTED	sd approval
Drawn by J.D.	sd approval
Checked by S.C.	sd approval 05/11/20
UCR project no. 957443	construction release
dia number	

Drawing Name 1ST FLOOR DEMO. LIGHTING PLAN Sheet No. E-102 OF 1

PLAN NOTES

- CONTRACTOR SHALL DISCONNECT AND REMOVE LIGHT FIXTURE ONLY. EXISTING BACK-BOX/OUTLET BOX TO BE RE-USED TO SERVE THE NEW LIGHT FIXTURES. EXISTING CIRCUIT/CONTROL CONDUCTORS ARE TO BE PROTECTED IN PLACE.
- EXISTING NIGHT-LIGHT (ALWAYS ON) CIRCUIT TO BE USED TO PROVIDE TO THE NEW EMERGENCY LIGHT FIXTURES.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, CONDUIT AND CIRCUIT CONDUCTORS BACK TO THE SERVING PANEL OR LAST REMAINING FIXTURE ON THE CIRCUIT.
- ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED. ALL TRACED CIRCUITS WHICH ARE TO REMAIN IN OPERATION SHALL BE IDENTIFIED ON THE SERVING BRANCH CIRCUIT PANEL DIRECTORY. CONTRACTOR SHALL PROVIDE NEW UPDATED TYPED PANEL DIRECTORIES.
- REFER TO REMODEL PLANS FOR ADDITIONAL REQUIREMENTS.
- REFER TO GENERAL NOTES AND DEMOLITION NOTES, SHEET E-01, FOR ADDITIONAL REQUIREMENTS.



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FIRST FLOOR DEMO. LIGHTING PLAN

1/4" = 1'-0"

1





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Architect's Date:



Architect's Stamp:

Consultants Stamp:

PROJECT TITLE

UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL CONSTRUCTION DOCUMENTS

REVISIONS

REV #	DESCRIPTION	DATE

APPROVED 07/07/2020

OFFICE OF THE CLERK OF THE ENGINE, APPROVED FOR PERMITS ONLY

07/07/2020

Approval of this plan does not authorize or represent approval or disapproval from applicable agencies. The seal approval is subject to inspection. The seal approval plan shall be in accordance with the applicable code.

Reviewed by: *[Signature]*

Reviewed for Code Compliance 07/07/20

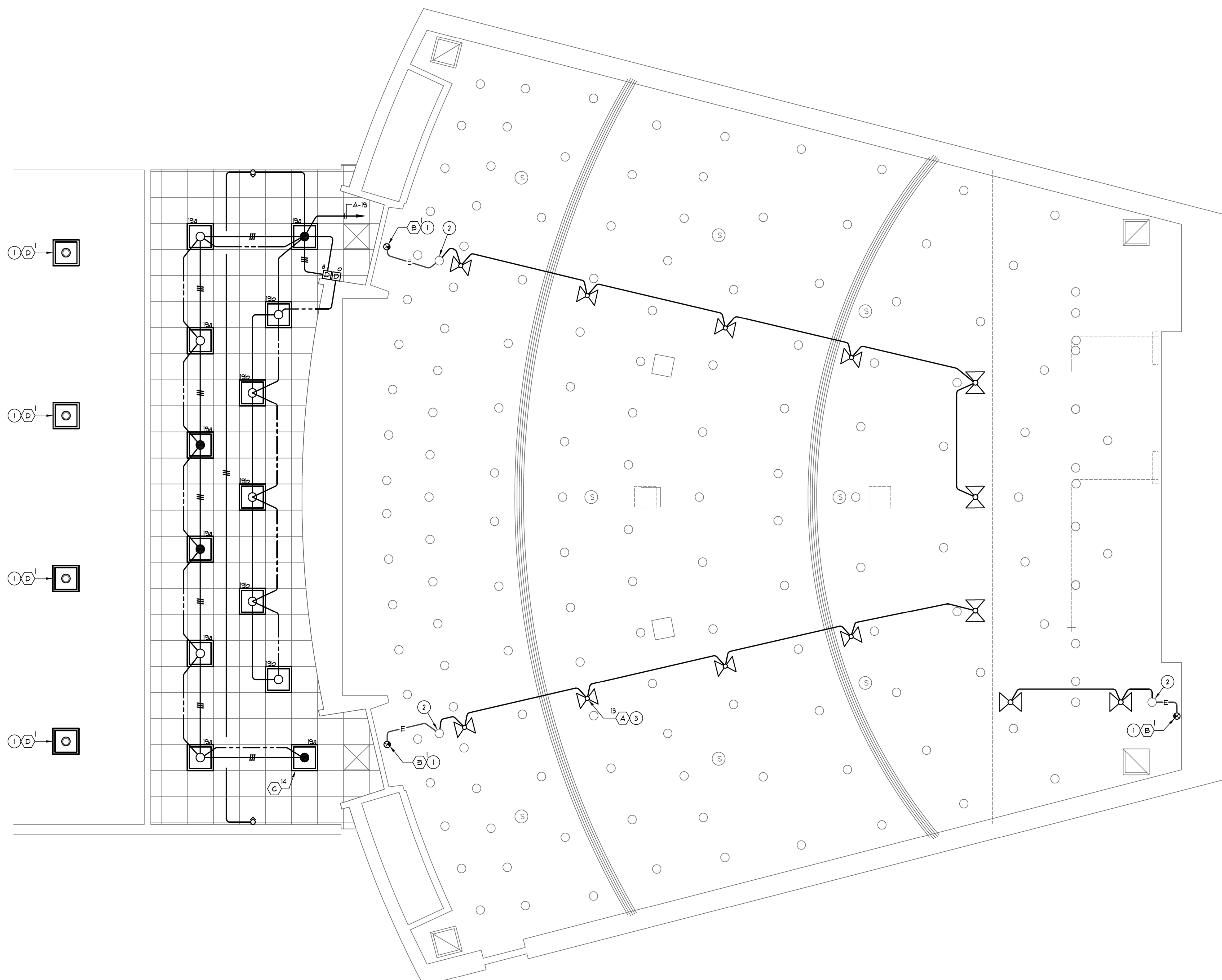
Consultants Data: Project Title UCR DMFI PROJECTS 2019 PHYSICS 2000 RENEWAL

UCR project manager SCOTT DONNEL

Drawing Name 1ST FLOOR LIGHTING PLAN Sheet No. E-202 OF 1

PLAN NOTES

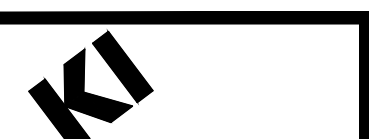
- 1 NEW LIGHT FIXTURE IN PLACE OR REMOVED LIGHT FIXTURE. CONNECT NEW LIGHT FIXTURE TO EXISTING BACK-BOX AND CIRCUIT CONDUCTORS. PATCH, REPAIR AND RE-FINISH CEILING AS DIRECTED BY THE ARCHITECT.
- 2 EXTEND NEW CONDUIT AND CIRCUIT CONDUCTORS FROM EXISTING NIGHT-LIGHT FIXTURE TO THE NEW EMERGENCY LIGHT FIXTURES.
- 3 COORDINATE EXACT LOCATION OF THE NEW EMERGENCY LIGHT FIXTURES PRIOR TO ROUGH-IN TO AVOID INTERFERENCE WITH EXISTING CEILING MOUNTED LIGHT FIXTURES, DEVICES AND UTILITIES.
- 4 REFER TO DEMOLITION PLANS FOR ADDITIONAL REQUIREMENTS.
- 5 REFER TO GENERAL NOTES AND DEMOLITION NOTES, SHEET E-01, FOR ADDITIONAL REQUIREMENTS.



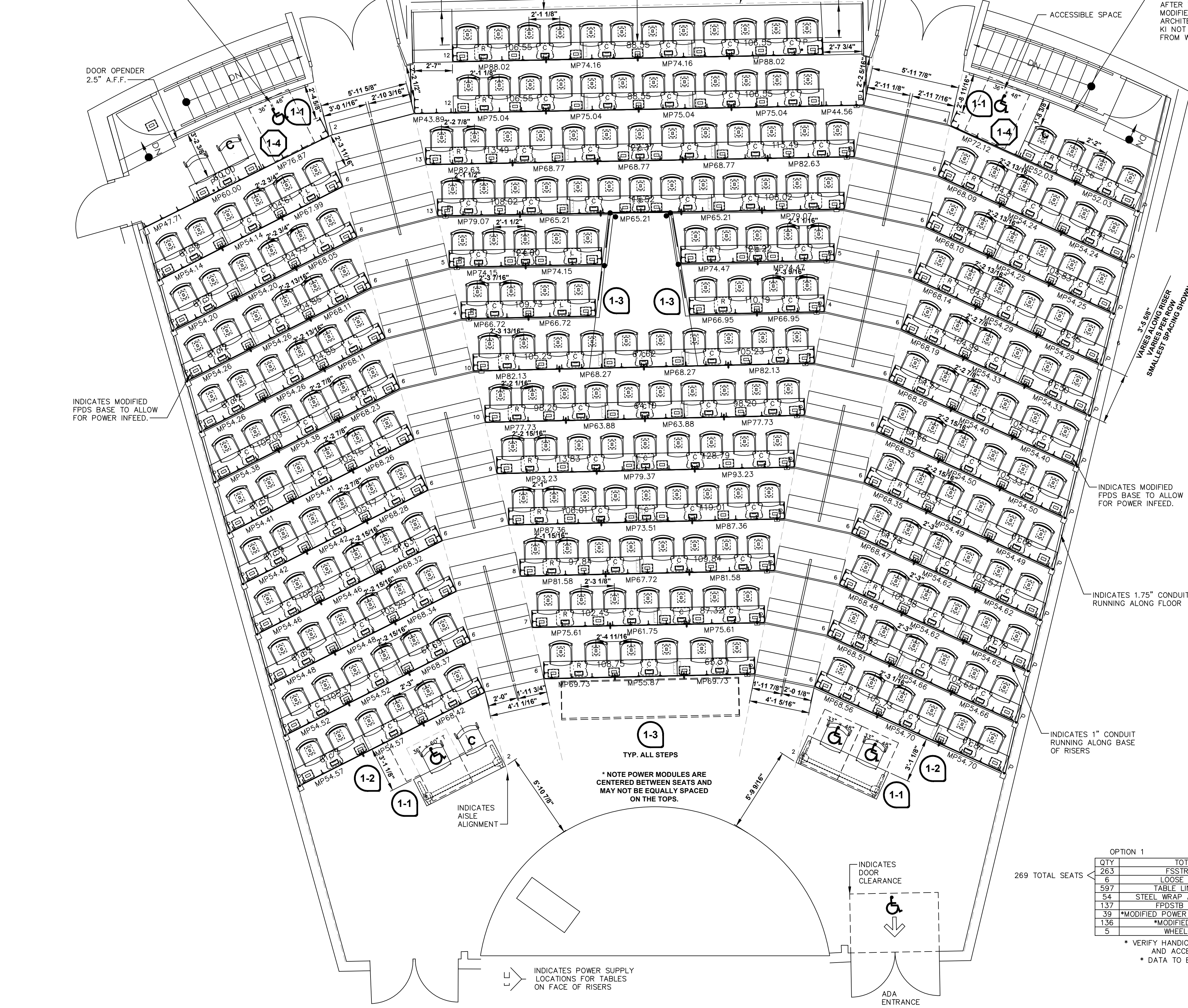
**A&F ENGINEERING GROUP INC.**  
 9333 BASELINE RD., SUITE 100, RANCHO CUCAMONCA, CA 91730  
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1ST FLOOR LIGHTING PLAN

1/4" = 1'-0" 1



BACK WALL AND RISER AREA WAS MODIFIED AFTER THE ROOM WAS VERIFIED. AREA WAS MODIFIED WITH A PLAN SUPPLIED FROM THE ARCHITECT. A-00789P-C.dwg. 2-14-2020 KI NOT RESPONSIBLE FOR ANY VARIATIONS FROM WHAT IS SHOWN.



OPTION 1

QTY	TOTAL SEATING
263	FSSTRIP/ABEY/STR
6	LOOSE SEATS (SNAP)
597	TABLE LINEN FEEL @ 14"
54	STEEL WRAP AROUND END PANELS
137	POSTER BASES @ 27.75"
39	MODIFIED POWER POSTER BASES @ 27.75"
136	MODIFIED VILLA MODULES
5	WHEELCHAIR SPACES

269 TOTAL SEATS

• VERIFY HANDICAP REQUIREMENTS AND ACCESSIBILITY •  
• DATA TO BE WIRELESS •

- SEMINAR & UNIVERSITY SEATING LEGEND**
- WP = WORKING POINT
  - C = COMPANION SEAT
  - LI = LAYOUT NOTE INDICATOR
  - BB = BASIC BASE (FPFOB, FPDSTB, UNVB)
  - SB = SELECT BASE (FPFOB, FPDSTB, UNVB)
  - I = MODESTY PANEL BRACKET
  - MP = ACRYLIC MODESTY PANEL BRACKET
  - MS = MODESTY PANEL SPLIT
  - MP = MODESTY PANEL
  - EP = END PANEL
  - JP = JOINT PLATE
  - TM = TABLE MARKER
  - MPM = MODESTY PANEL MARKER
  - P = POWER INFED
  - D = DATA INFED
  - EC = ELECTRICAL CONNECTOR WITH TROUGH
  - E = ELECTRICAL CONNECTOR
  - T = TROUGH
  - R = RECEPTACLE CIRCUIT NUMBER
  - SH = SHROUD (L, R, C)
  - SM = SHROUD & POWER MODULE (L, R, C)
  - US = UNDER SURFACE SHROUD & POWER MODULE (L, R, C)
  - PT = REMOTE POWER TAP SHROUD & POWER MODULE INCLUDES ELECTRICAL CONNECTOR (L, R, C)

- JURY SEATING LEGEND**
- WP = WORKING POINT
  - C = COMPANION SEAT
  - DS = DESIGNATED AISLE SEAT
  - LI = LAYOUT NOTE INDICATOR
  - FB = FLOOR MOUNT BASIC BASE
  - FS = FLOOR MOUNT SELECT BASE
  - FH = FLOOR MOUNT ADJUSTABLE HEIGHT BASE
  - FX = FIXED HEIGHT JURY SWING BASE
  - AX = ADJUSTABLE HEIGHT JURY SWING BASE

- SEMINAR/UNIVERSITY POWERUP NOTES**
- POWER INFED LOCATIONS WILL BE PLACED AS INDICATED UNLESS OTHERWISE NOTED.
  - VERIFY LOCATION OF INFEDS PER TABLE.
  - VERIFY WHAT TYPE OF BASE FLANGE - POWER INFED THRU SIDE OF PEDESTAL.
  - COLOR SELECTIONS.
- Refer to KI's Assembly Guidelines documentation of University Seating® & Seminar® Tables - Power & Data Infeed Requirements

THIS DRAWING WAS CREATED WITH VERIFIED FIELD DIMENSIONS (VFD) USING TACHYCAD EQUIPMENT ON 01-28-2020. KI WILL NOT BE RESPONSIBLE FOR ANY FIT ISSUES THAT OCCUR DUE TO ROOM MODIFICATIONS MADE AFTER THIS DATE.

NOTE: SEATING CAPACITY WAS DETERMINED USING A MINIMUM SEAT SPACING OF 24". SEAT COUNT IS SUBJECT TO VARYING POKING AND FINAL APPROVAL AND WILL BE CONFIRMED AT TIME OF ORDER.

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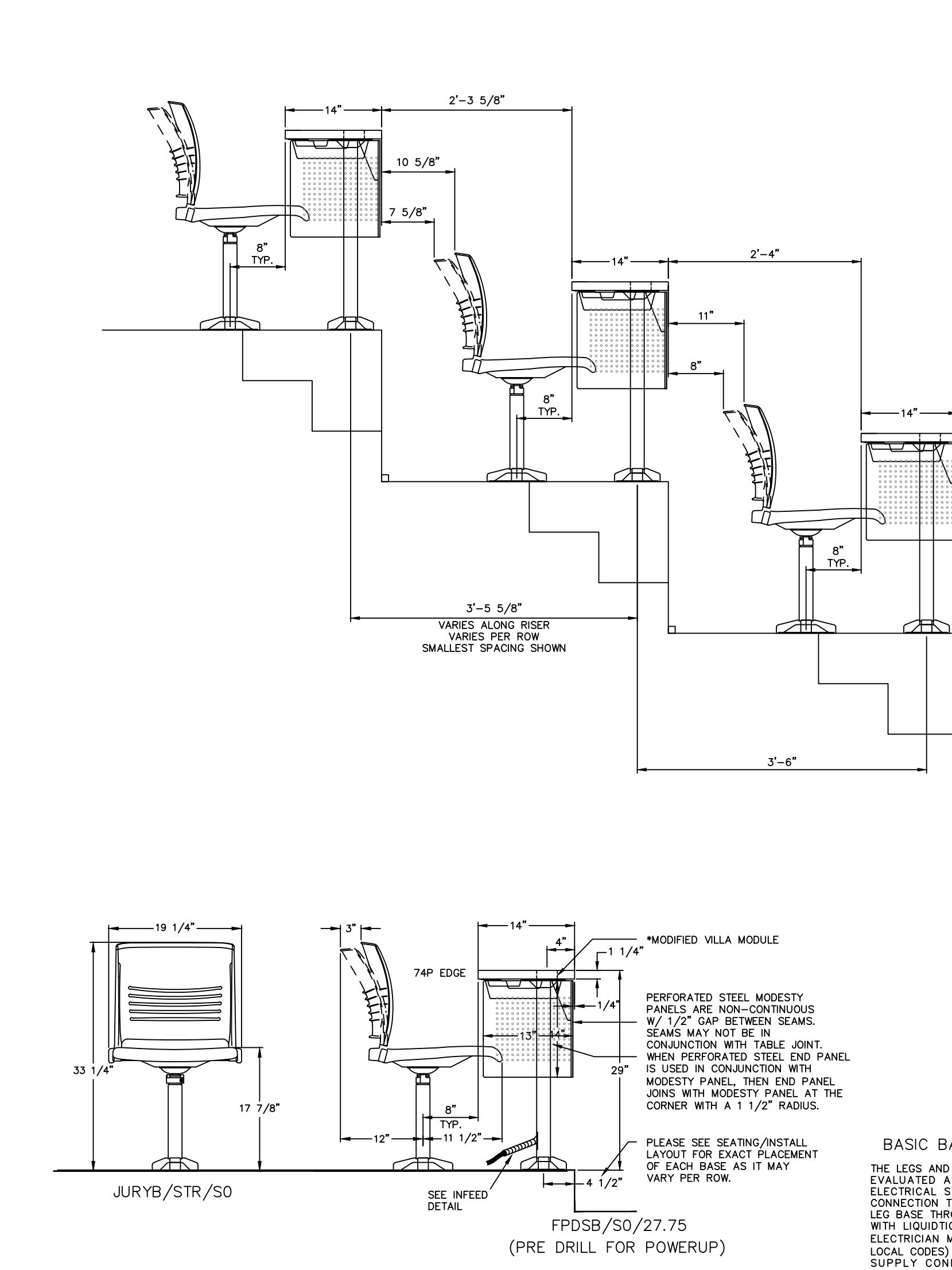
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**SEATING LAYOUT - OPTION 1**  
1/4" = 1'-0"

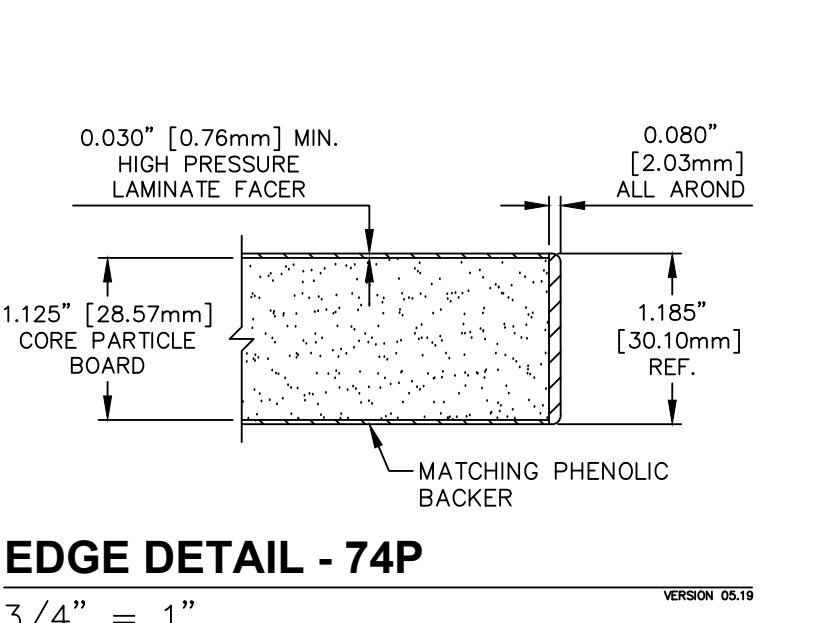
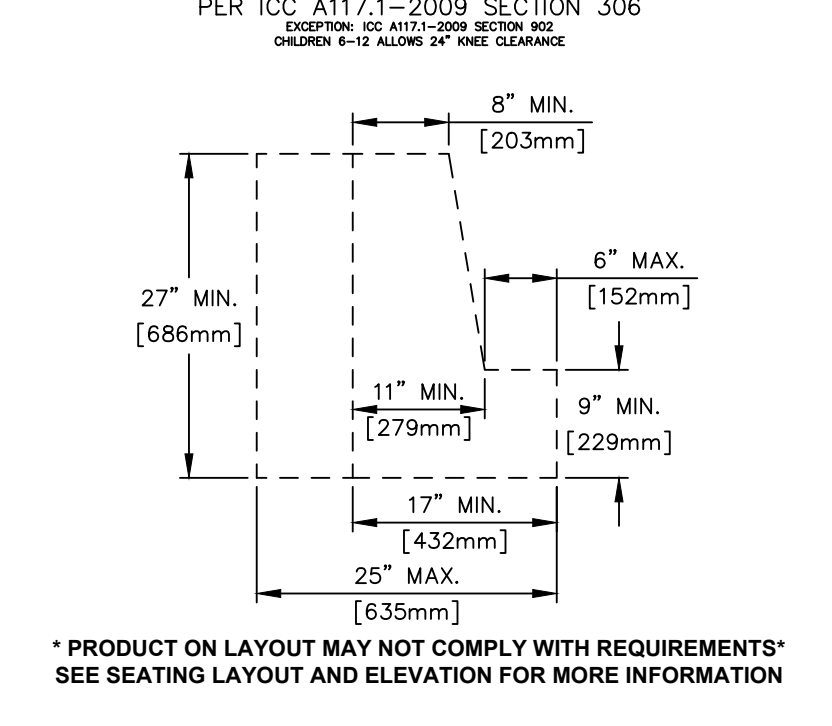
FINISH SCHEDULE - CLASSROOM 2000 - OPTION 1

COMPONENT	MATERIAL	COLOR	CODE
STRIVE SHELL - ODD ROWS	POLY	SAND	PSA
STRIVE SHELL - EVEN ROWS	POLY	MORING	PNP
WORK SURFACE	LAMINATE	FLAX LINEN	LXF
WORK SURFACE EDGE	PVC FREE (74P)	MISTY BROWN	EMT
MODESTY PANEL	CONTINUOUS LAMINATE	FLAX LINEN	LXF
MODESTY PANEL EDGE	PVC FREE (74P)	MISTY BROWN	EMT
BASE / FRAME	POWERGRAY PAINT	MISTY BROWN	MY
POWER MODULE	MODIFIED - VILLA POWERUP MODULE	MISTY BROWN	MY

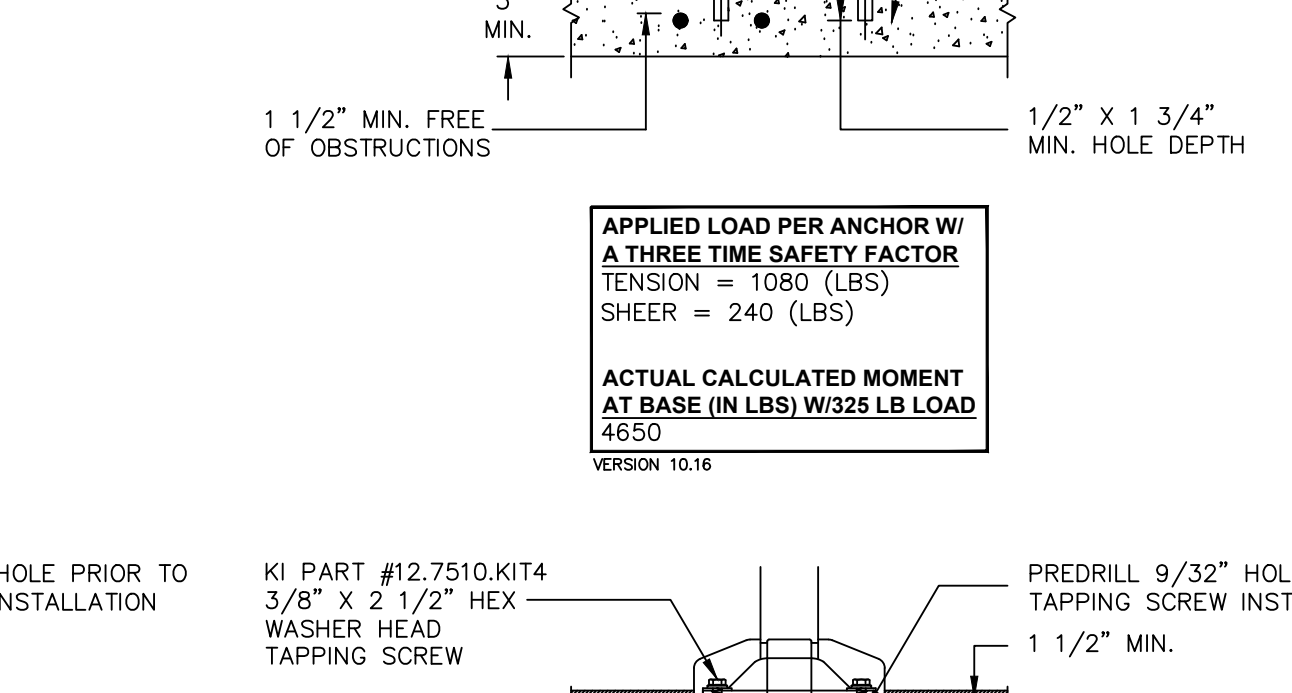
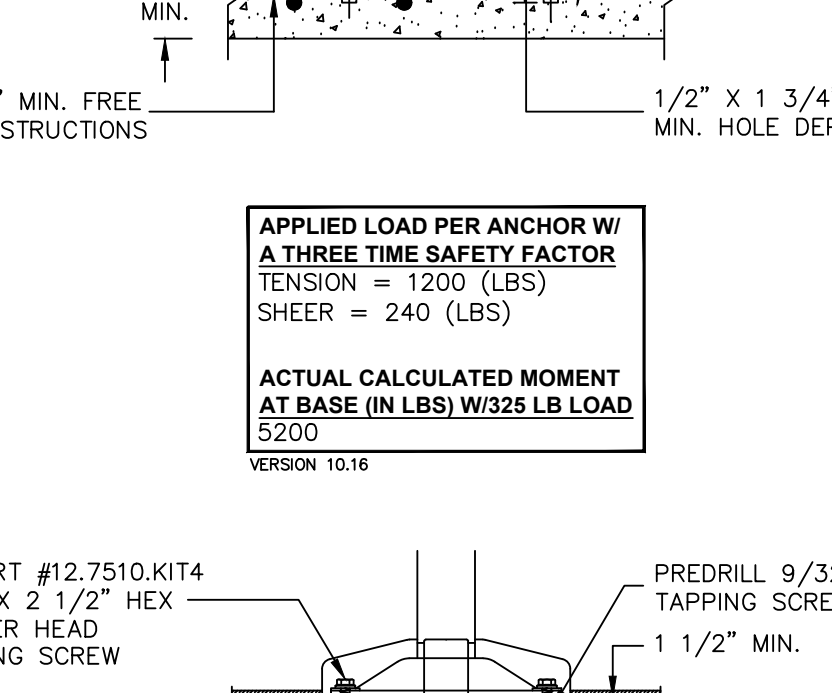
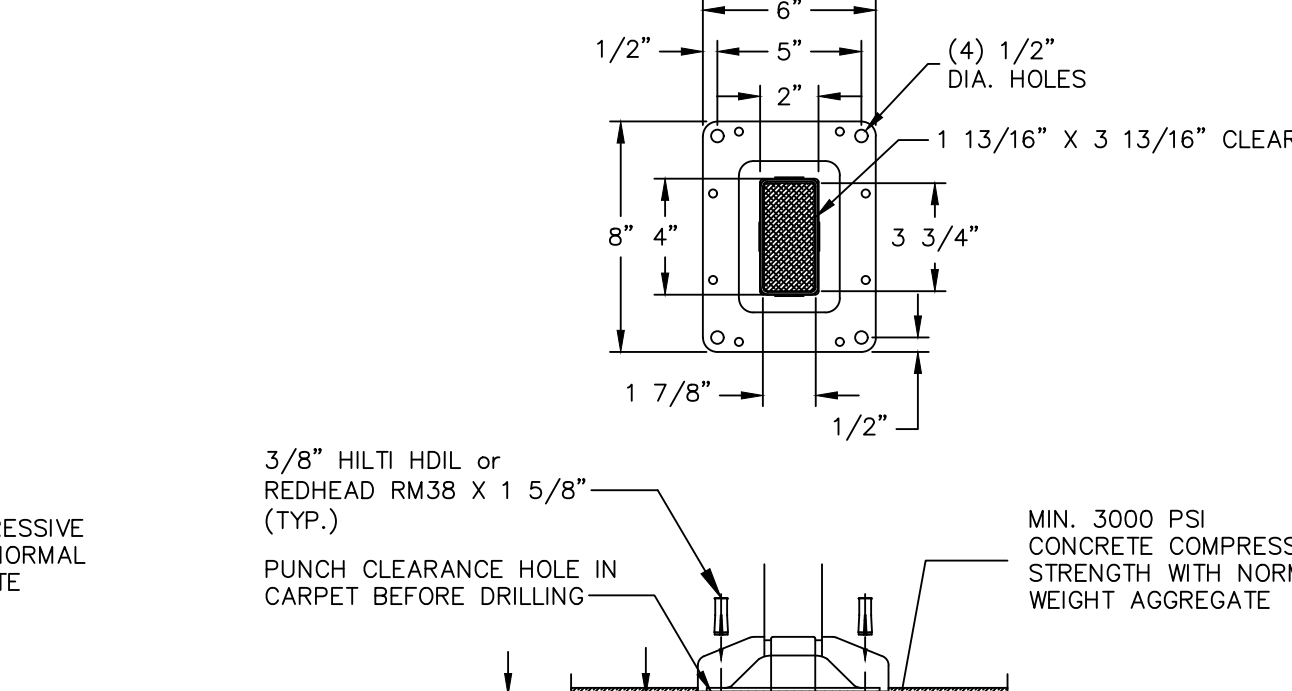
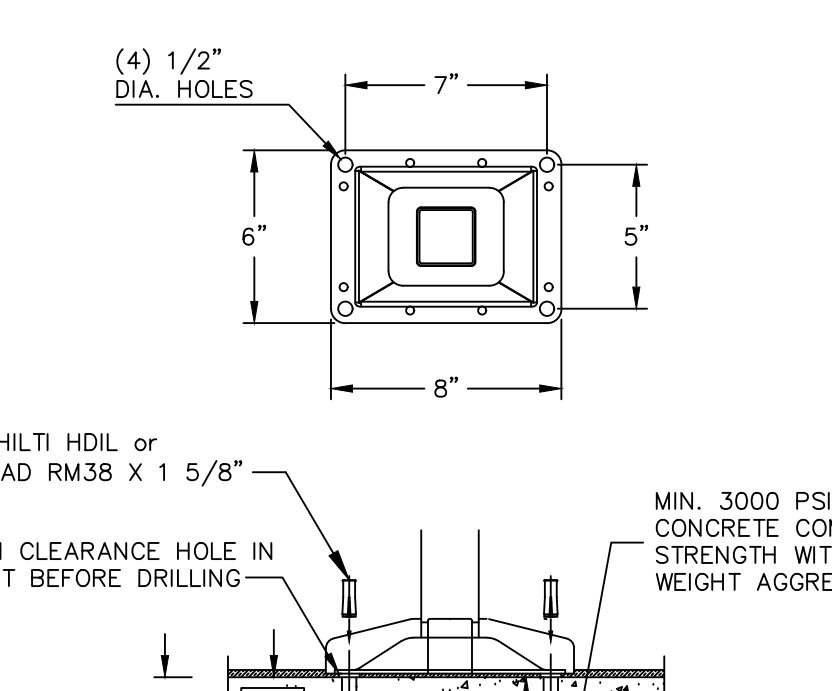
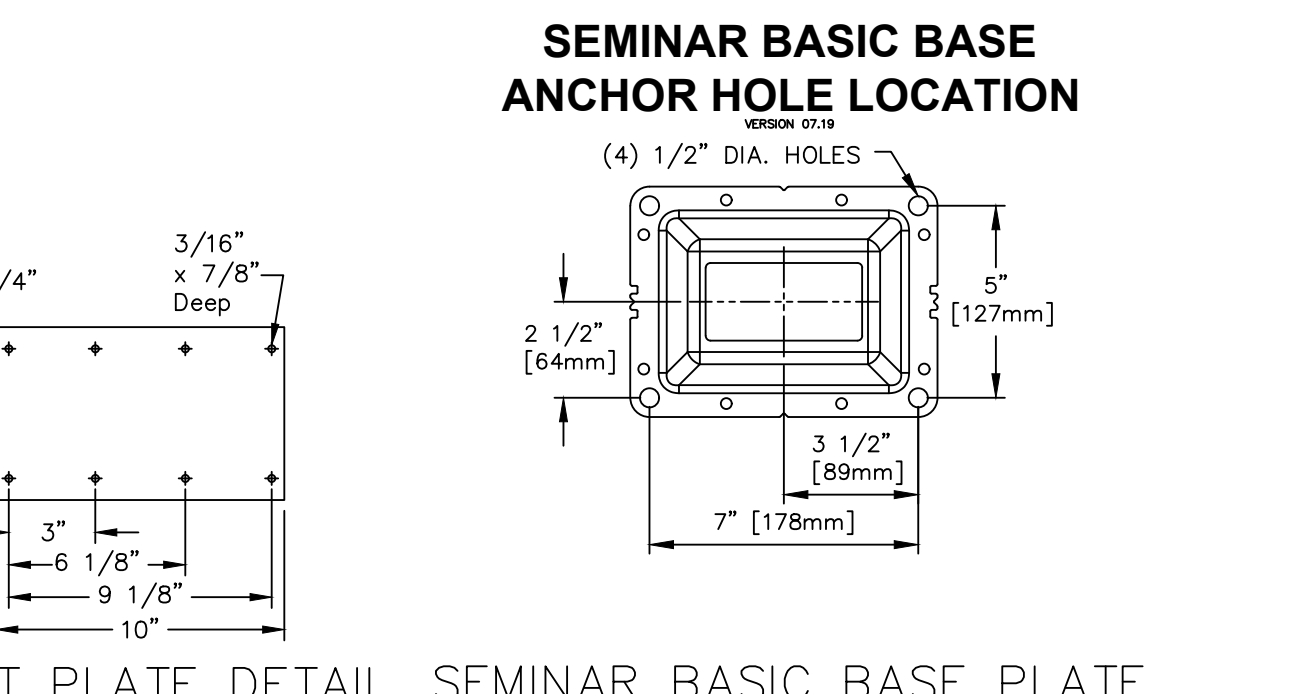
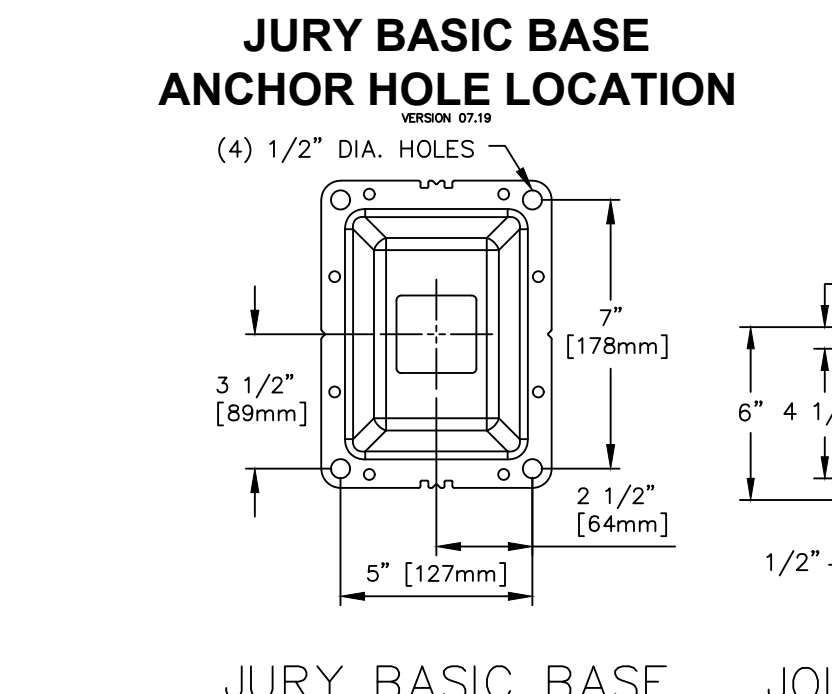
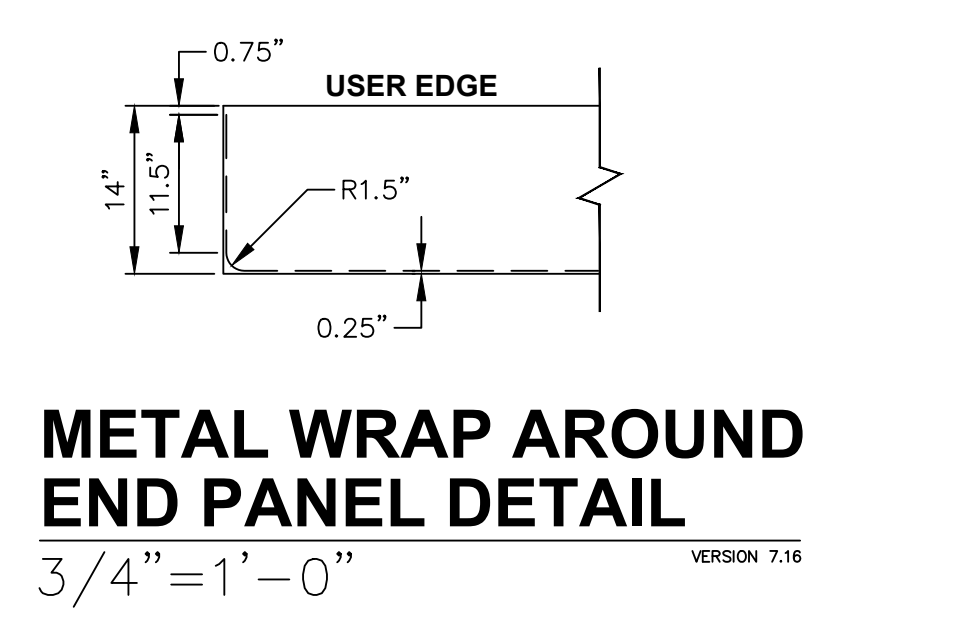
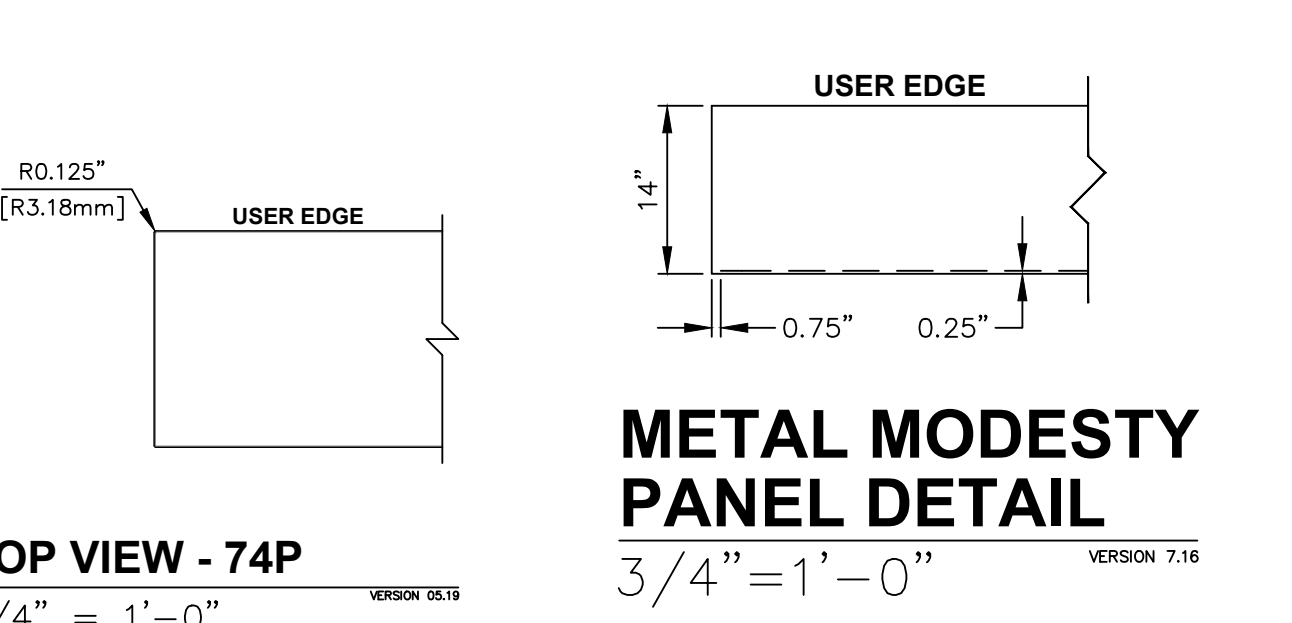
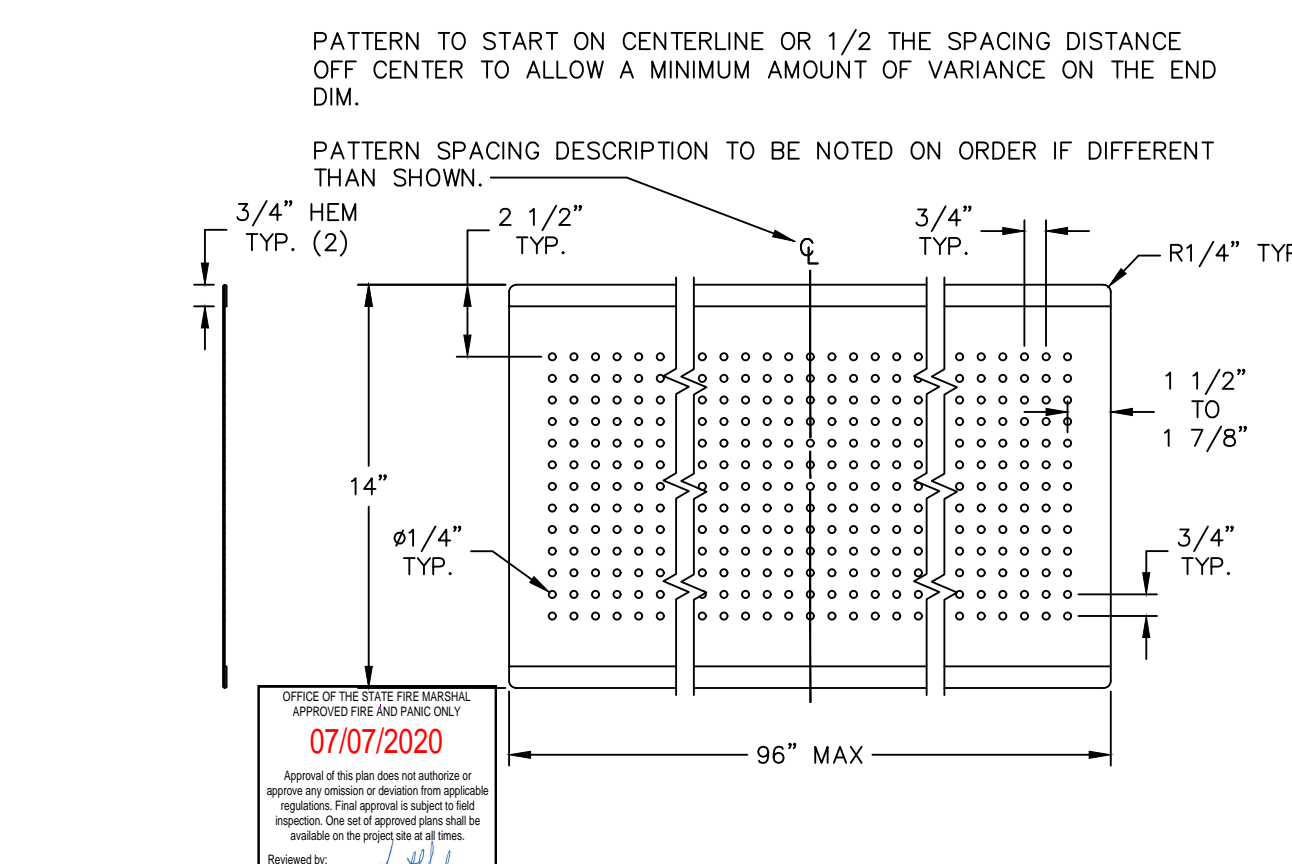


**ELEVATION - OPTION 1**  
3/4" = 1'-0"

**ADA KNEE AND TOE CLEARANCE**



**PERFORATED STEEL MODESTY PANEL**



**APPROVED**  
REVERSE  
Construction Permit No. 80-332  
CAMPUS BUILDING PERMIT

OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND SAFETY PLAN  
03/17/2020

Approval of this plan does not authorize or approve any construction or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*  
Fire and Life Safety Division

THIS PLAN IS NOT INTENDED TO BE USED FOR BUILDING CONSTRUCTION

**DRAWING REVIEW**  
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APPROVED AS NOTED   
REVISE AND RESUBMIT

SIGNATURE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**PROJECT TITLE:**  
UNIVERSITY OF CALIFORNIA RIVERSIDE

**FLOOR/AREA:**  
PHYSICS 2000

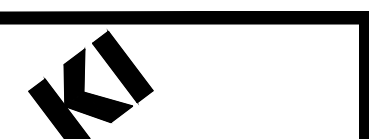
**PROJECT LINE:**  
Seminar  
Jury Base

**REPRESENTATIVE:**  
ALEXANDER  
**DEALER:**  
ALEXANDER

**ORDER NUMBER:**  
SFC0418659

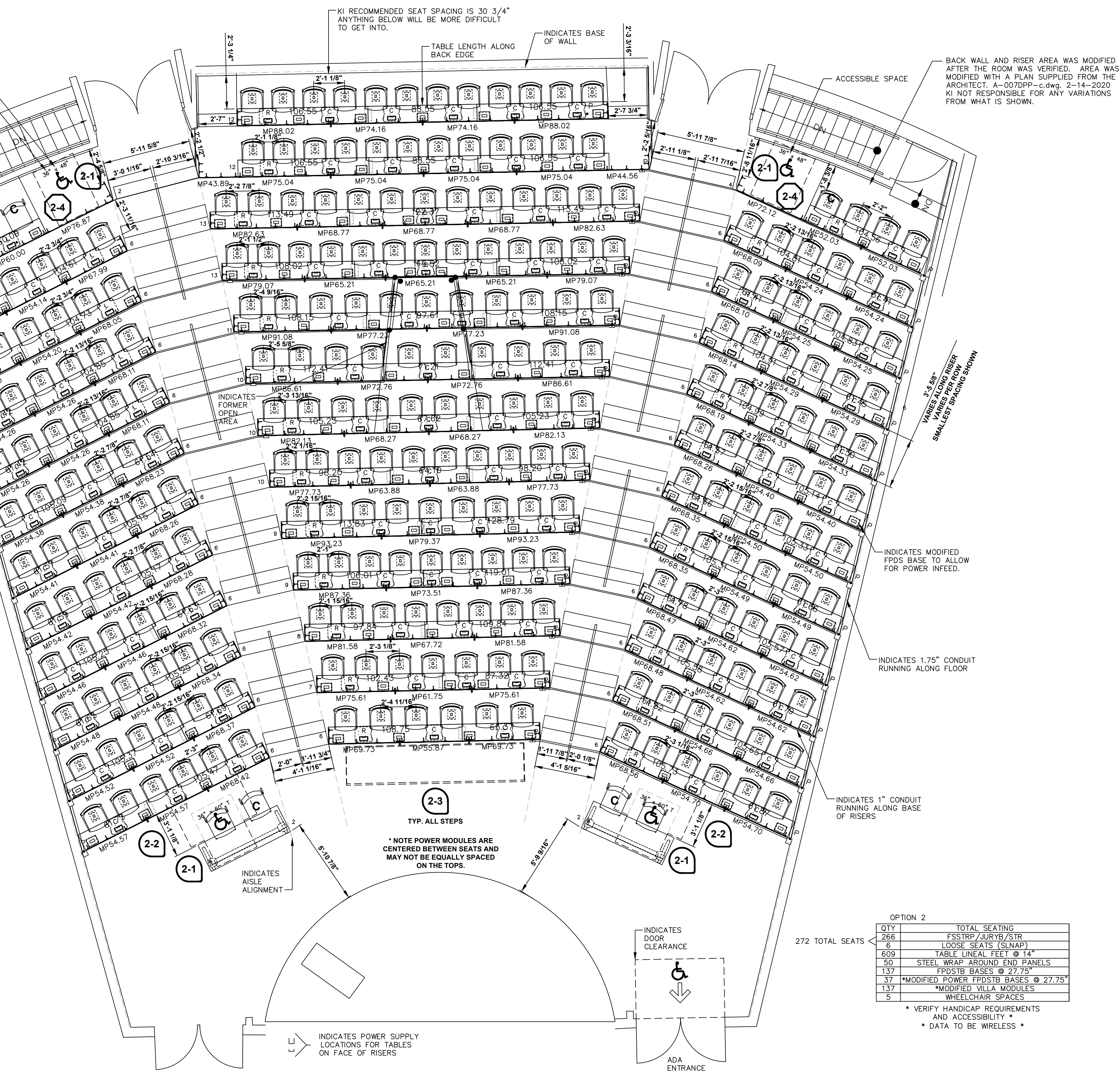
**DATE:**  
02/27/2019

- REVISIONS:**
- | NO. | DATE       | DESCRIPTION                         |
|-----|------------|-------------------------------------|
| 1   | 11/29/2018 | KIS REV TO INCLUDE REV CODES        |
| 2   | 01/09/2019 | KIS REV 2-3 SPACES/ADD SEATS        |
| 3   | 01/09/2019 | REV 10/2018/REV 10/2018/REV 10/2018 |
| 4   | 03/25/2020 | KIS REV SEAT SPAC/ADD PER PA        |
| 5   | 03/25/2020 | KIS REV TO CLIENT REVISIONS         |
| 6   | 03/25/2020 | REV 03/2020                         |
| 7   | 03/25/2020 | REV 03/2020                         |
- DRAWN BY:** SCALE: AS NOTED  
**DRAWING NO.:** D418659\_00\_00\_L02\_F  
02/20/2019 10:59 AM The Drawing Center Inc. (C:\Users\j...)
- SHEET:** Seating Option 1  
**1 of 2, E. 8**



BACK WALL AND RISER AREA WAS MODIFIED AFTER THE ROOM WAS VERIFIED. AREA WAS MODIFIED WITH A PLAN SUPPLIED FROM THE ARCHITECT. KI NOT RESPONSIBLE FOR ANY VARIATIONS FROM WHAT IS SHOWN.

PLEASE VERIFY IF THE FLOOR OF THIS ACCESSIBLE ROW IS ALL ON THE SAME LEVEL.



OPTION 2

272	TOTAL SEATING
6	FSSTRIP/JURY/STRIP
6	LOOSE SEATS (SUNAP)
50	TABLE LAMINATE, SEE #14
33	STEEL WRAP AROUND END PANELS
137	POWER BASES @ 27.75"
37	MODIFIED POWER FPOD/BASE @ 27.75"
137	MODIFIED VILLA MODULES
5	WHEELCHAIR SPACES

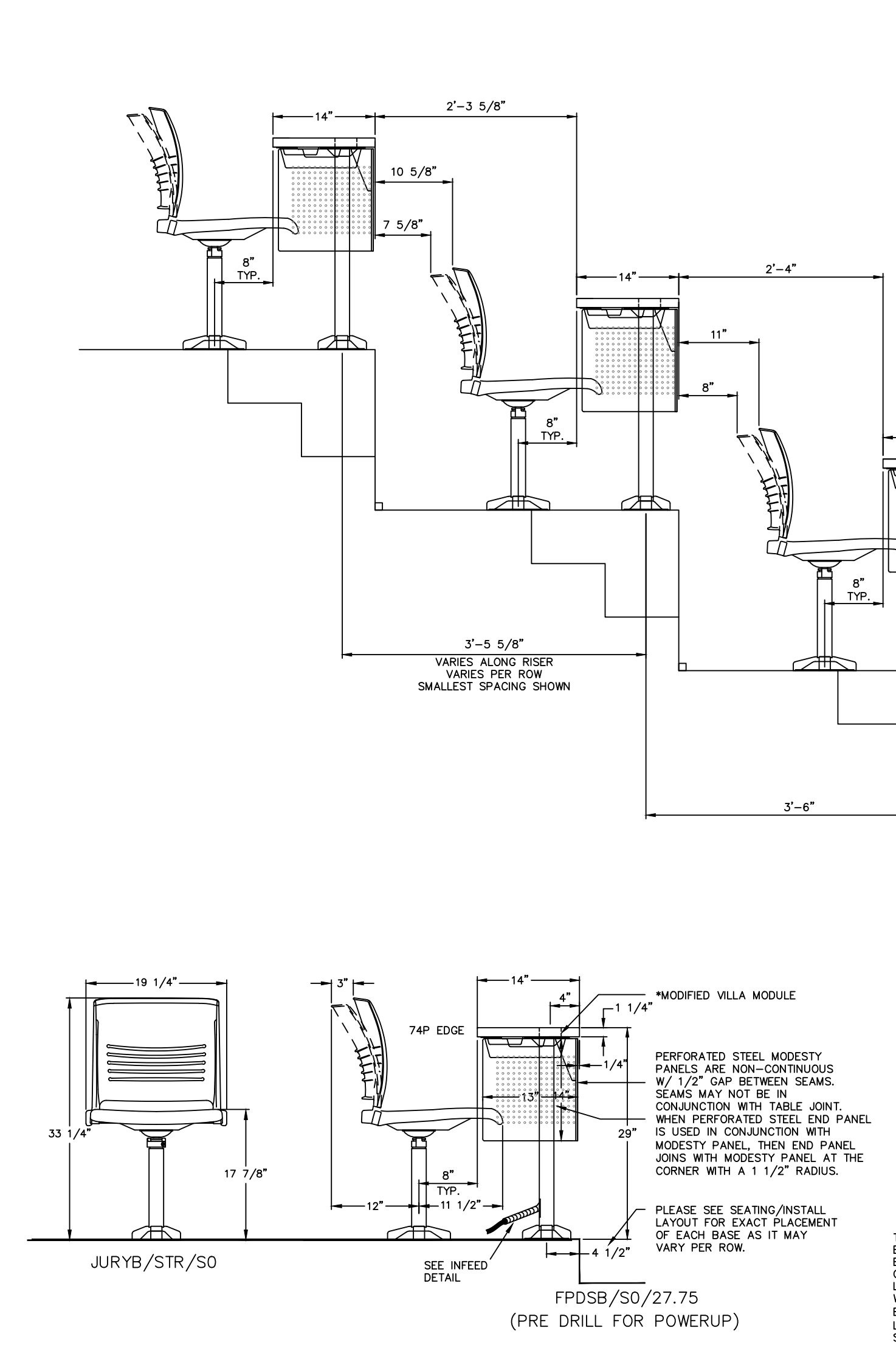
\* VERIFY HANDICAP REQUIREMENTS AND ACCESSIBILITY  
\* DATA TO BE WIRELESS \*

### SEATING LAYOUT - OPTION 2

1/4" = 1'-0"

FINISH SCHEDULE - CLASSROOM 2000 - OPTION 2

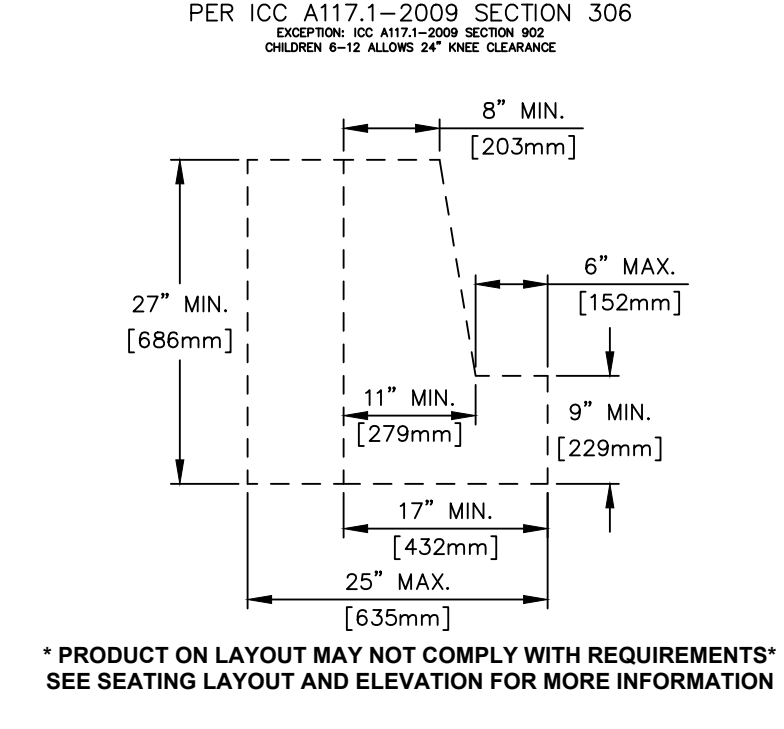
COMPONENT	MATERIAL	COLOR	CODE
STRIVE SHELL - ODD ROWS	POLY	SAND	PSA
STRIVE SHELL - EVEN ROWS	POLY	MORING	PCD
WORK SURFACE	LAMINATE	FLAX LINEN	LFX
WORK SURFACE EDGE	PVC FREE (74P)	MISTY BROWN	EM7
MODESTY PANEL	CONTINUOUS LAMINATE	FLAX LINEN	LFX
MODESTY PANEL EDGE	PVC FREE (74P)	MISTY BROWN	EM7
BASE / FRAME	POWERGRAY PAINT	MISTY BROWN	MY
POWER MODULE	MODIFIED - VILLA POWERUP MODULE	MISTY BROWN	MY



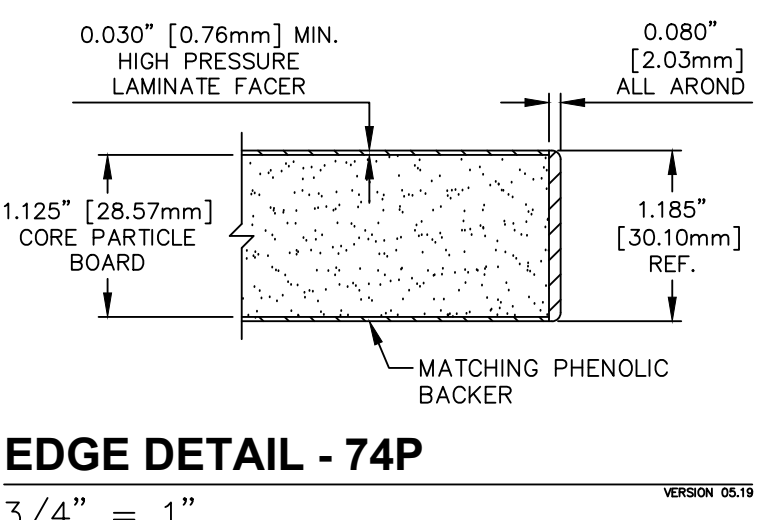
### ELEVATION - OPTION 2

3/4" = 1'-0"

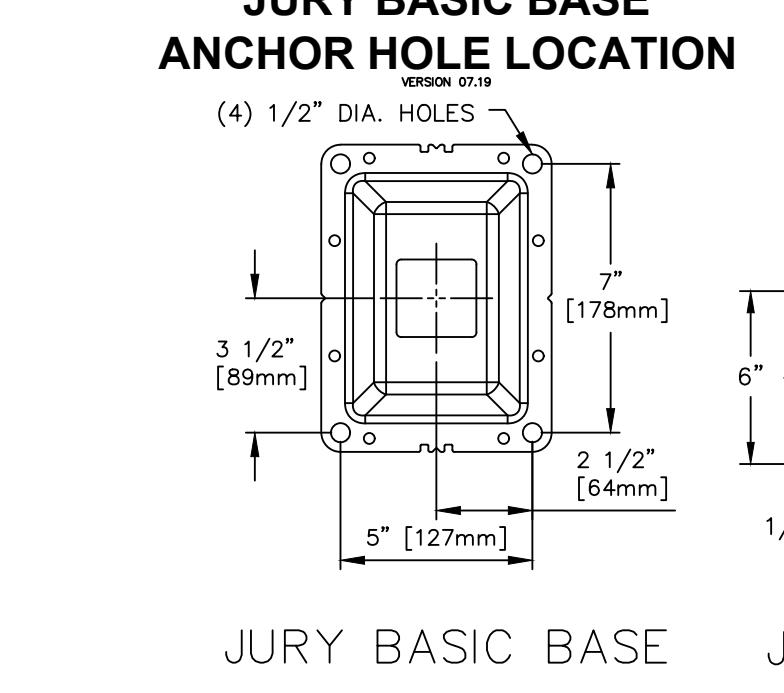
### ADA KNEE AND TOE CLEARANCE



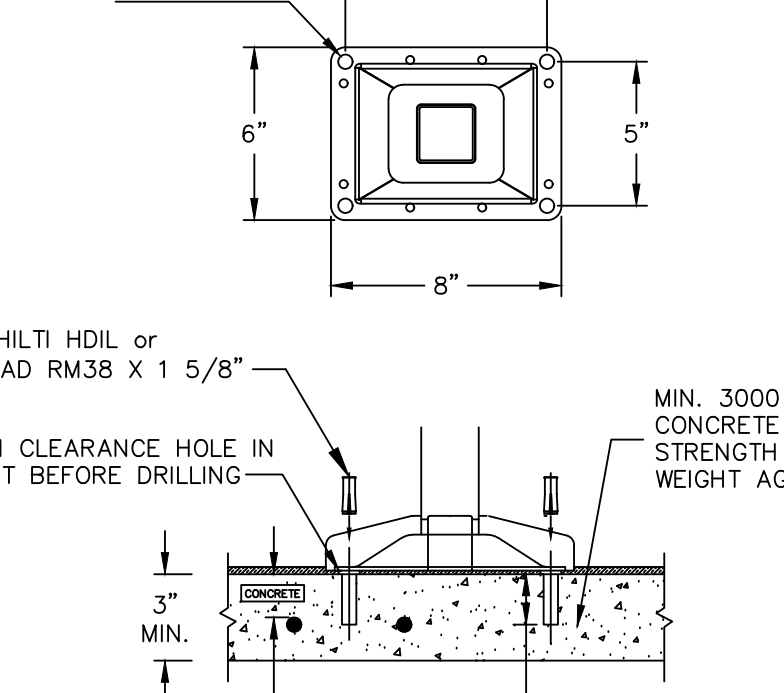
\* PRODUCT ON LAYOUT MAY NOT COMPLY WITH REQUIREMENTS - SEE SEATING LAYOUT AND ELEVATION FOR MORE INFORMATION \*



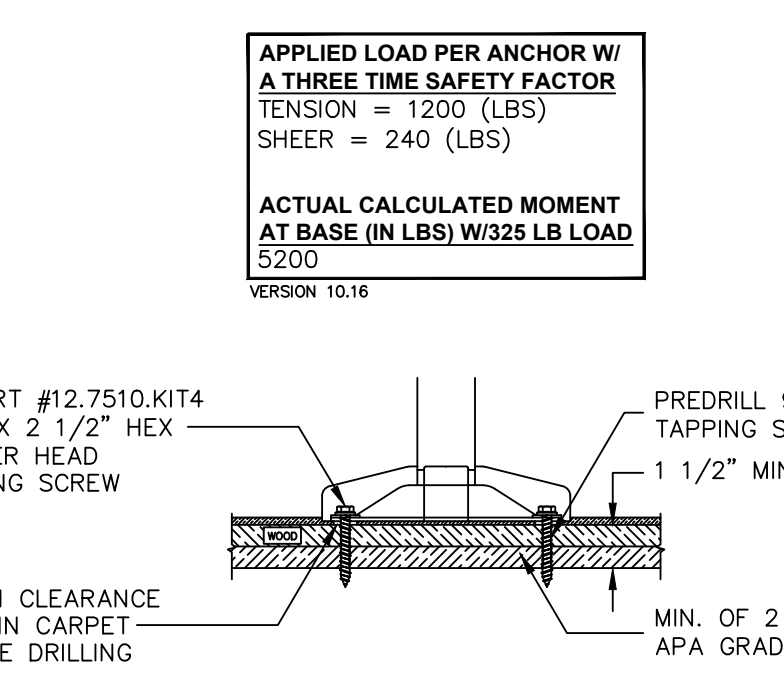
EDGE DETAIL - 74P 3/4" = 1'



TOP VIEW - 74P 3/4" = 1'-0"



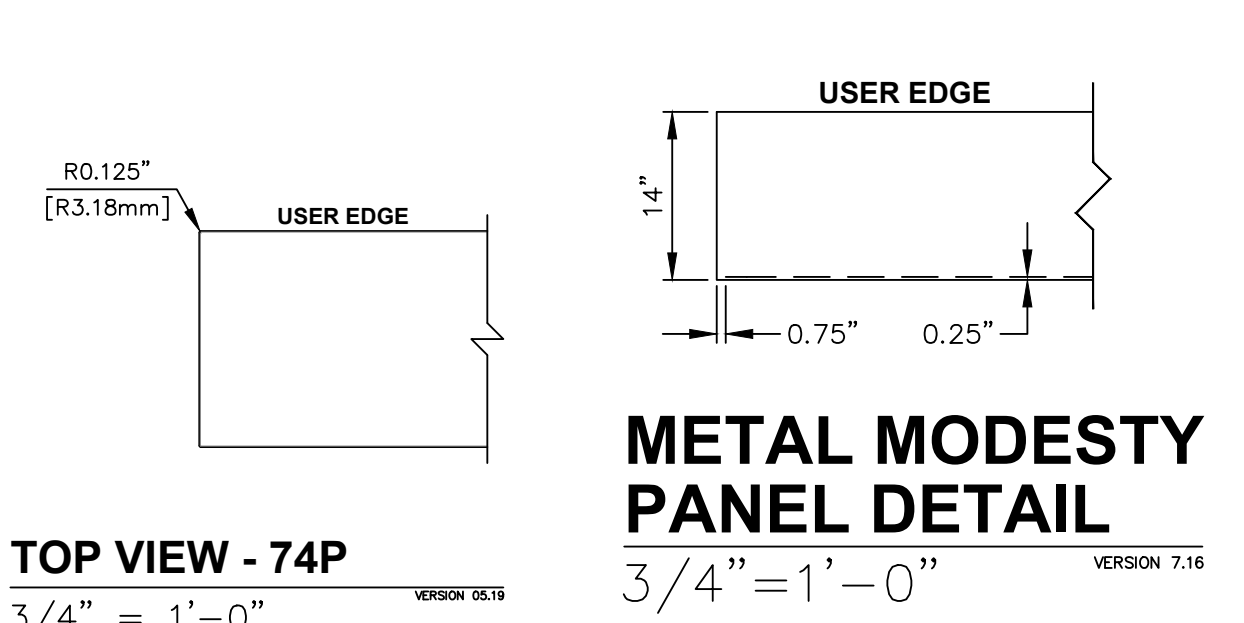
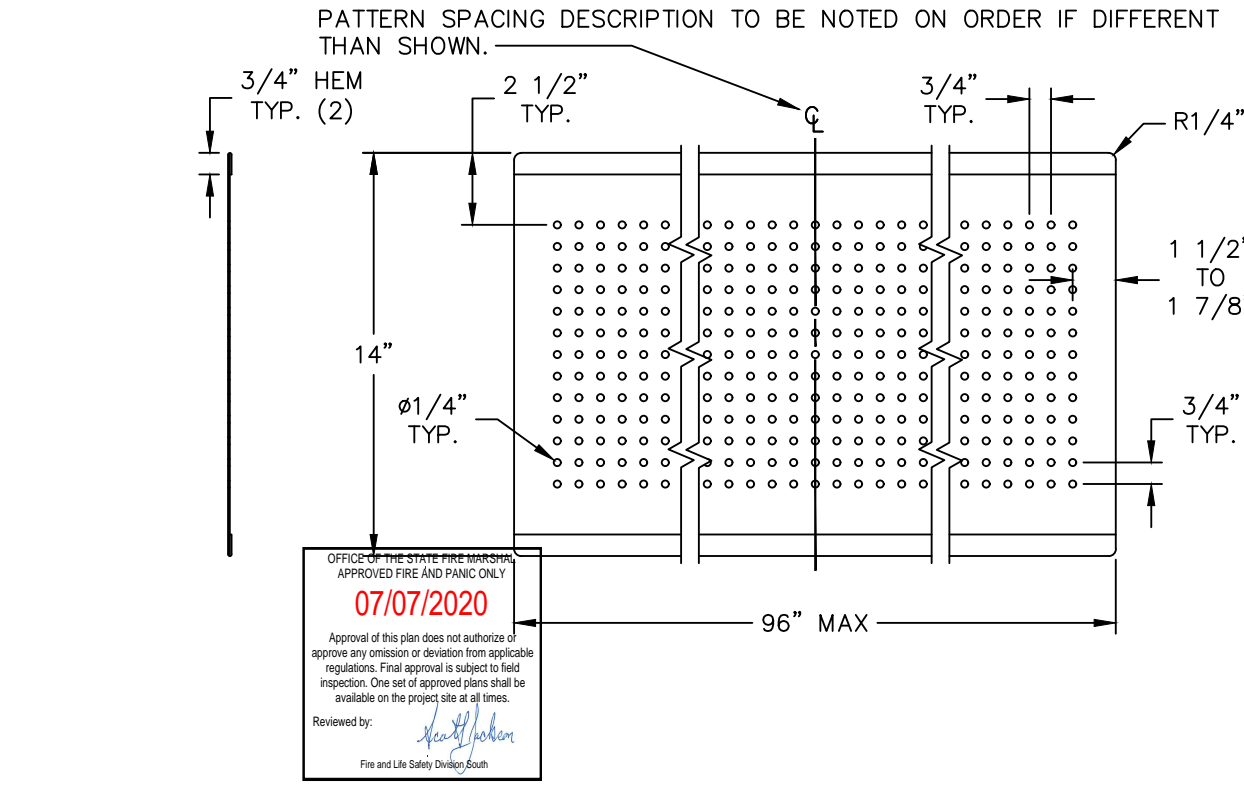
JURY BASIC BASE ANCHOR HOLE LOCATION



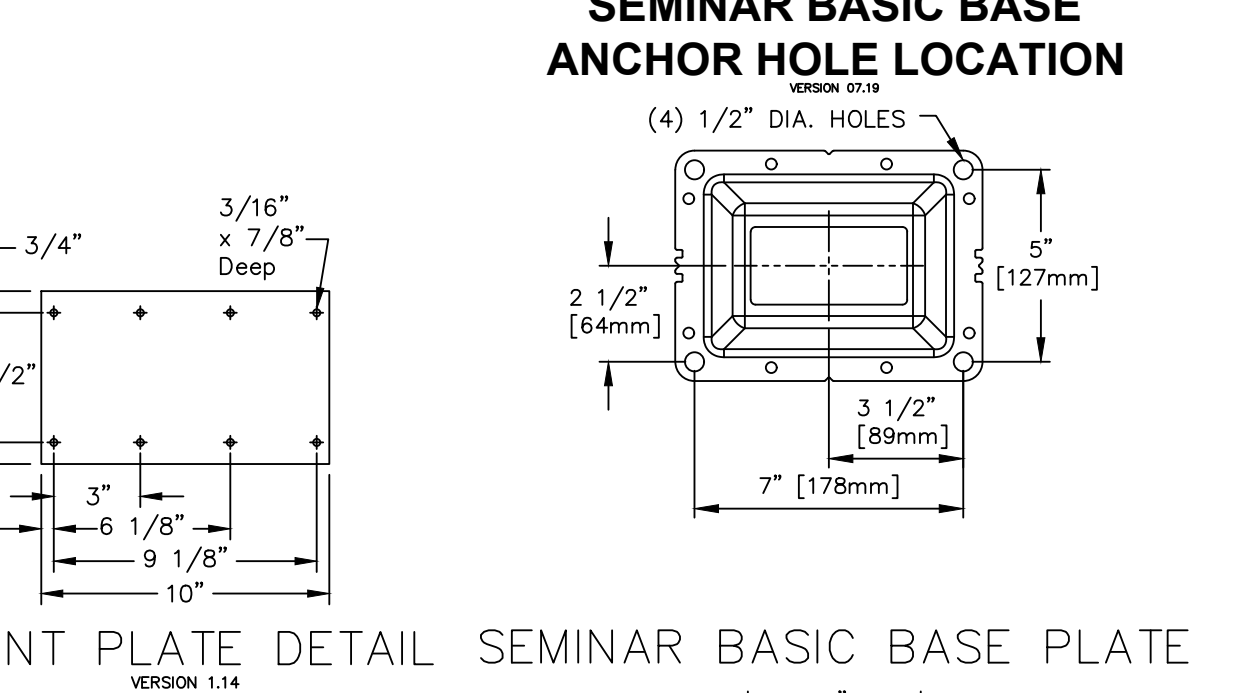
JURY BASIC BASE

### PERFORATED STEEL MODESTY PANEL

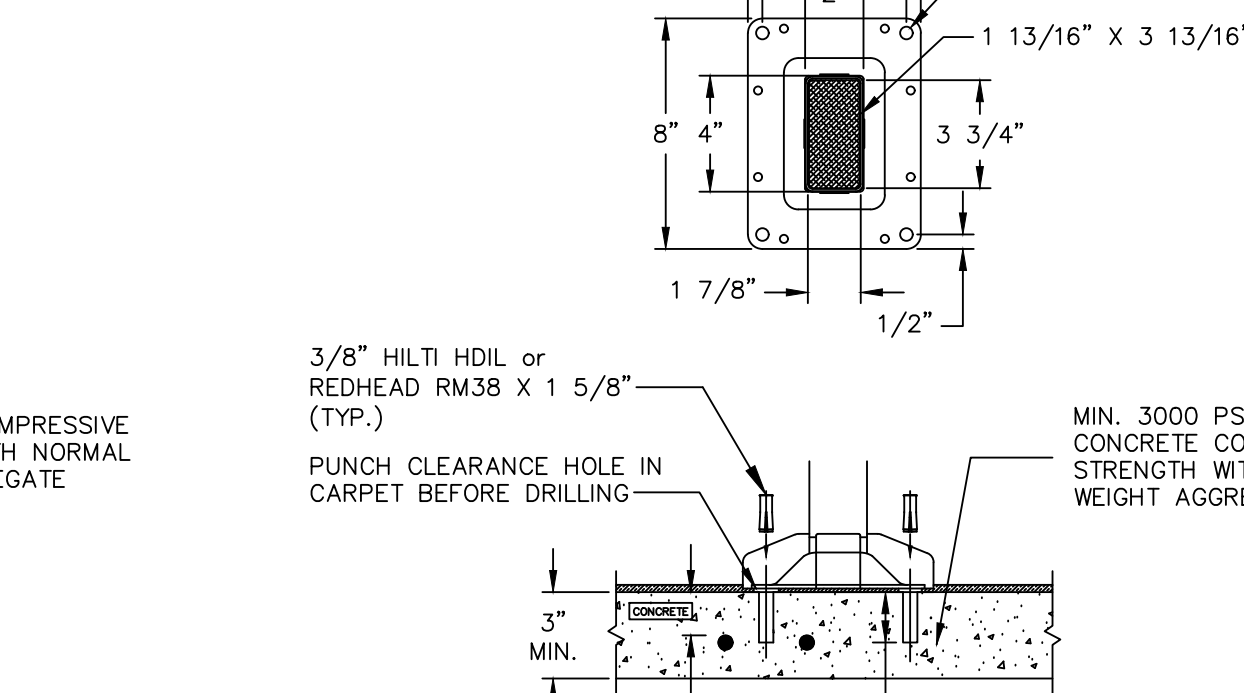
PATTERN TO START ON CENTERLINE OR 1/2 OF THE SPACING DISTANCE OFF CENTER TO ALLOW A MINIMUM AMOUNT OF VARIANCE ON THE END DIM.



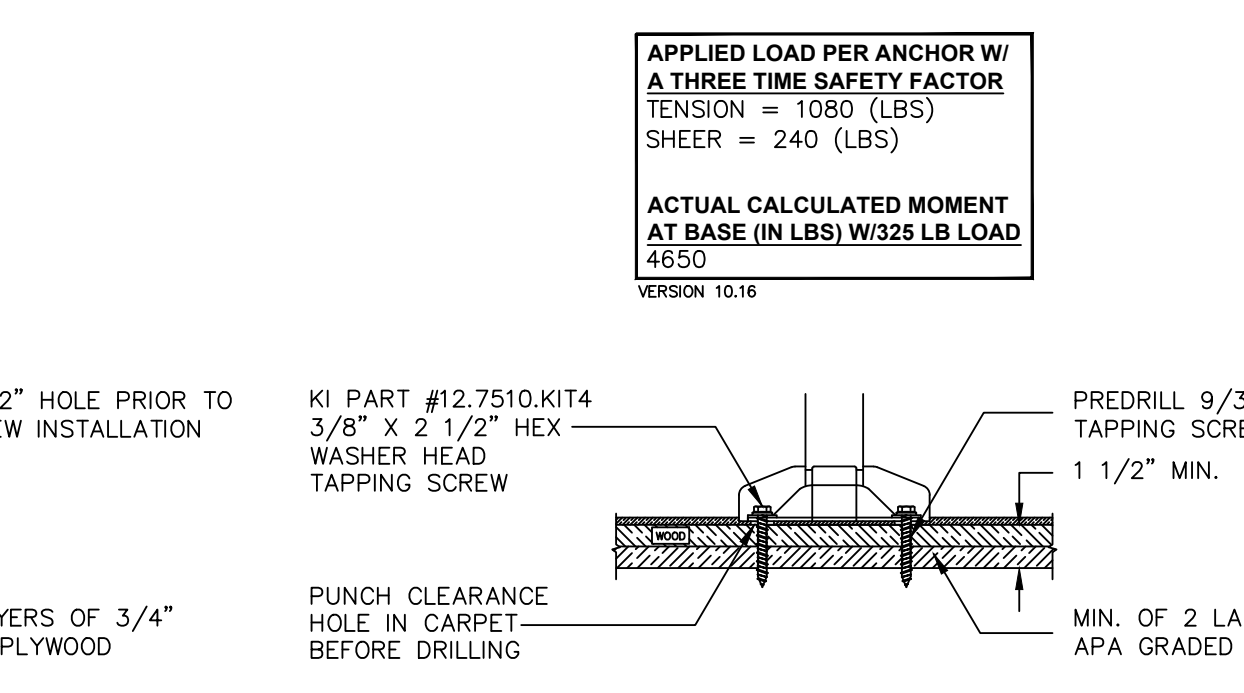
METAL MODESTY PANEL DETAIL 3/4" = 1'-0"



METAL WRAP AROUND END PANEL DETAIL 3/4" = 1'-0"



SEMINAR BASIC BASE ANCHOR HOLE LOCATION



SEMINAR BASIC BASE PLATE

#### SEMINAR & UNIVERSITY SEATING LEGEND

- MP = WORKING POINT
- C = COMPANION SEAT
- LI = LAYOUT NOTE INDICATOR
- BB = BASIC BASE (FPOPB, FPOSTB, UNIVB)
- SB = SELECT BASE (FPOPB, FPOSTB, UNIVB)
- I = MODESTY PANEL BRACKET
- MB = ACRYLIC MODESTY PANEL BRACKET
- SP = MODESTY PANEL SPLIT
- MP = MODESTY PANEL
- EP = END PANEL
- JP = JOINT PLATE
- TM = TABLE MARKER
- MPM = MODESTY PANEL MARKER
- P = POWER INFEEED
- D = DATA INFEEED
- EC = ELECTRICAL CONNECTOR WITH TROUGH
- E = ELECTRICAL CONNECTOR
- TR = TROUGH
- PCN = RECEPTACLE CIRCUIT NUMBER
- SR = SHROUD (L, R, C)
- SM = SHROUD & POWER MODULE (L, R, C)
- USM = UNDER SURFACE SHROUD & POWER MODULE (L, R, C)
- RPTM = REMOTE POWER TAP SHROUD & POWER MODULE INCLUDES ELECTRICAL CONNECTOR (L, R, R)

#### JURY SEATING LEGEND

- MP = WORKING POINT
- C = COMPANION SEAT
- DS = DESIGNATED AISLE SEAT
- LI = LAYOUT NOTE INDICATOR
- BB = FLOOR MOUNT BASIC BASE
- SB = FLOOR MOUNT SELECT BASE
- AMH = FLOOR MOUNT ADJUSTABLE HEIGHT BASE
- FBH = FIXED HEIGHT JURY SWING BASE
- AJH = ADJUSTABLE HEIGHT JURY SWING BASE

#### SEMINAR/UNIVERSITY POWERUP NOTES

- POWER INFEEED LOCATIONS WILL BE PLACED AS INDICATED UNLESS OTHERWISE NOTED.
- VERIFY LOCATION OF INFEEEDS PER TABLE.
- VERIFY WHAT TYPE OF INFEEED - FLOOR INFEEED THRU THE BASE FLANGE - POWER INFEEED THRU SIDE OF PEDESTAL - COLOR SELECTIONS.

Refer to KI's Assembly Guidelines documentation of University Seating® & Seminar® Tables - Power & Data Infed Requirements

THIS DRAWING WAS CREATED WITH VERIFIED FIELD DIMENSIONS (VFD'S) USING TACHYCAD EQUIPMENT. VARYING PUNCHING VFD'S AND FINAL APPROVAL AND WILL BE CONFIRMED AT TIME OF ORDER.

NOTE: SEATING CAPACITY WAS DETERMINED USING A MINIMUM SEAT SPACING OF 24". SEAT COUNT IS SUBJECT TO MODIFICATIONS MADE AFTER THIS DATE.

APPROVED  
Office of Planning, Design & Construction  
Building, Safety and Compliance Division  
CAMPUS BUILDING PERMIT

APPROVED  
Office of Planning, Design & Construction  
Building, Safety and Compliance Division  
CAMPUS BUILDING PERMIT  
03/17/2020  
Approval of this plan does not endorse or approve any condition or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

THIS PLAN IS NOT INTENDED TO BE USED FOR BUILDING CONSTRUCTION.  
DRAWING REVIEW  
These Plans are intended to comply with the contract. As such, these Plans must be reviewed by the Owner/Architect/Contractor, or other appropriate representative. If it is to proceed with project construction in accordance with these Plans, the Approver to verify the same, review and complete the information at the bottom of the page and return this document to KI. If these Plans are to be corrected, move the 'Revised and Resubmit' box below, include and complete the information at the bottom of the page and return this document to KI. Authorized signature holder name of these Plans. Signature holder name, title, company or affiliation, and date. Description of project and any other information required is provided. A complete and authorized signature is required.  
APPROVED AS NOTED:   
REVISED AND RESUBMIT:   
SIGNATURE: \_\_\_\_\_  
FIRM: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT TITLE: UNIVERSITY OF CALIFORNIA RIVERSIDE  
FLOOR/AREA: PHYSICS 2000PRODUCT LINE: Seminars  
Jury Base

#### LAYOUT NOTES

- KI HAS PREPARED THESE PLANS IN ACCORDANCE WITH REQUIREMENTS AND INSTRUCTIONS PROVIDED BY THE OWNER/ ARCHITECT/ CONTRACTOR. THE MATTERS IDENTIFIED BELOW ARE AREAS IN WHICH THE REQUIREMENTS AND/OR INSTRUCTIONS DO NOT COMPLY WITH THE IDENTIFIED CODE, STANDARD, OR RECOMMENDATION. APPROVAL OF THESE PLANS BY THE OWNER/ ARCHITECT/ CONTRACTOR CONSTITUTES AGREEMENT THAT KI SHALL SUFFER NO LIABILITY FOR ANY CLAIMS, DAMAGES, OR OTHER HARM CAUSED BY SUCH NON-COMPLIANCE.
- KI RECOMMENDS ALL ADA LOCATIONS TO HAVE ACCESS TO POWER WHEN IT IS SUPPLIED IN A ROOM.
- KI RECOMMENDS A MINIMUM OF 48" (1220mm) FROM USER EDGE FOR EASE OF ACCESS FOR ADA AT LOOSE TABLES.
- A GUARD MAY BE REQUIRED IN THIS AREA TO PREVENT A TRIP HAZARD.
- ACCESSIBLE WRITING SURFACES HAVE NOT BEEN PROVIDED AT THE WHEELCHAIR SPACES. PER THE 1991 ICC WHEN WRITING SURFACES ARE PROVIDED IN A ROOM, THEY MUST ALSO BE PROVIDED IN A ROOM, THEY MUST ALSO BE ACCESSED BY A WHEELCHAIR.

APPLIED LOAD PER ANCHOR W/ A THREE TIME SAFETY FACTOR  
TENSION = 1200 (LBS)  
SHEAR = 240 (LBS)

ACTUAL CALCULATED MOMENT AT BASE (IN LBS) W/ 3/8" X 1 5/8" LOAD  
5200

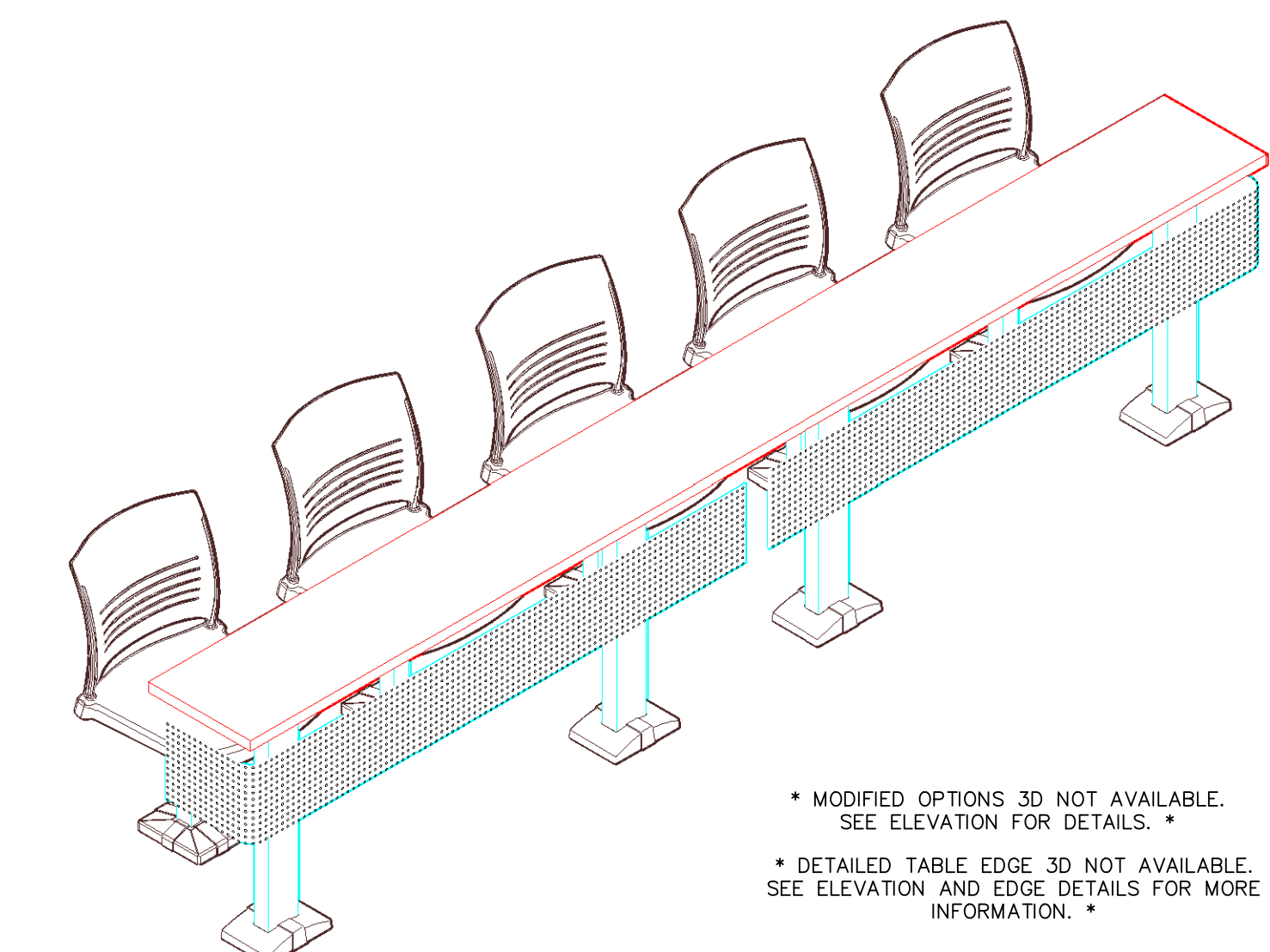
APPLIED LOAD PER ANCHOR W/ A THREE TIME SAFETY FACTOR  
TENSION = 1080 (LBS)  
SHEAR = 240 (LBS)

ACTUAL CALCULATED MOMENT AT BASE (IN LBS) W/ 3/8" X 1 5/8" LOAD  
4850

NOTE: SYMBOL KEY  
LI = LAYOUT NUMBER  
# = RECOMMENDATION

### 3D SAMPLE - OPTION 2

3/4" = 1'-0"



\* MODIFIED OPTIONS 3D NOT AVAILABLE. SEE ELEVATION FOR DETAILS. \*  
\* DETAILED TABLE EDGE DETAIL FOR MORE INFORMATION. \*

RECOMMENDED SEAT-TO-SEAT SPACING IS 30 3/4". ANYTHING BELOW WILL BE MORE DIFFICULT TO GET INTO.