

LONG BEACH COMMUNITY COLLEGE DISTRICT
CONTRACTS MANAGEMENT DEPARTMENT
4901 EAST CARSON STREET
LONG BEACH, CA 90808
Ph. (562) 938-4843

C2194E BUILDING D FUME HOOD MECHANICAL AND PLUMBING UPGRADE PROJECT
AT THE
LIBERAL ARTS CAMPUS

ADDENDUM NO. 1

April 9, 2021

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents. Acknowledge receipt of the Addendum on Section 1.2 of the Bid Proposal. Failure to do so may result in the bid being deemed non-responsive.

Note: It is the responsibility of all bidders to notify all subcontractors from whom they request bids and from whom they accept bids of all changes contained in this addendum.

ADDENDUM NO. 1 CONTENTS

I. QUESTIONS AND ANSWERS
II. ATTACHMENTS

I. QUESTIONS AND ANSWERS

1. *Q: Is there an RCP Plan (Architectural) so we know how we will gain access to the HVAC units we need to perform work on?*

A: The existing ceiling is to remain and there are no new drawings to indicate locations, however Contractor may reference as-builts as shown in Attachment 1: Building D As-Builts.

2. *Q: We are to provide electrical conduit on the roof. Will the conduit be able to be run on top of the roof or will we have to penetrate below the roof and pop back up in new location?*

A: Conduit to be run on the roof on neoprene blocks with ramp to prevent a tripping hazard over the conduit and allow for cart transport, if needed. Contractor to provide GateWalk rooftop walkways ramp with integrated DURA-BLOK supports or approved equal.

3. *Q: Will the science equipment such as beakers, test tubes, etc. (misc. small breakable items) be stored away during the construction to avoid breakage?*

A: Any exposed breakable items will be stored away by the District. Items in/on shelves to be protected in place by the Contractor.

4. *Q: What is the height above the acoustical ceiling on the third floor?*

A: See Attachment 1: Building D As-Builts.

5. *Q: Who is the current Building HVAC Controls Subcontractor?*

A: Trane is the current HVAC controls subcontractor. Refer to specification 23 0900.

6. *Q: Instructions note to hand deliver the bid bond to the District warehouse in person. Can the delivery be sent by a courier prior to the bid (i.e. Fed Ex)?*

A: Yes, bid bonds can be sent to the following address:

LONG BEACH COMMUNITY COLLEGE DISTRICT
ATTN: SOTA SUNLENG C/O WAREHOUSE
4900 E. CONANT STREET
LONG BEACH, CA 90808

7. *Q: Does the building have Fire Life Safety? If so, could you please provide company contact information so we can coordinate work.*

A: The existing building has a fire alarm system. Johnson Controls, Inc. is the vendor. Any work affecting the fire alarm system to be coordinated with the District, not the system provider.

8. *Q: It appears that many of the existing fume hood exhaust air valves are located above hard lid ceilings. Will ceiling access doors be required to be installed for access to the exhaust air valves?*

A: Contractor to field verify access to all fume hood exhaust air valves. Existing access to the valves is in front of the hoods. If exhaust valves are installed in inaccessible locations, Contractor to provide access doors. Contractor to patch and repair all items that require installation of new valves.

9. *Q: Will the Contractor be responsible to remove and reinstall the light fixtures where required to access the existing air valves?*

A: Any existing items that were affected in the construction process must be restored and repaired by the Contractor.

10. *Q: Please verify submittal review time: is it 15 days per the General Conditions or 21 days per Division 1 in the Specifications?*

A: Submittal review time to be 15 days per the General Conditions.

11. *Q: Do we need to keep roof top equipment online, or can we remove equipment at any time? If it is necessary to keep equipment online, provide phasing of equipment as required?*

A: The systems serving this area would be offline during the construction.

12. *Q: Will the elevators be available to transport personnel and equipment?*

A: Yes, but the Contractor will assume all responsibility and liability should any damage or tripping of alarms be incurred. Access to the building will be coordinated through the BMT.

III. ATTACHMENTS

1. Attachment 1: Building D As-Builts

*****END OF ADDENDUM NO. 1*****

LONG BEACH COMMUNITY COLLEGE DISTRICT

Robert Rapoza

Robert Rapoza
Director, Business Support Services

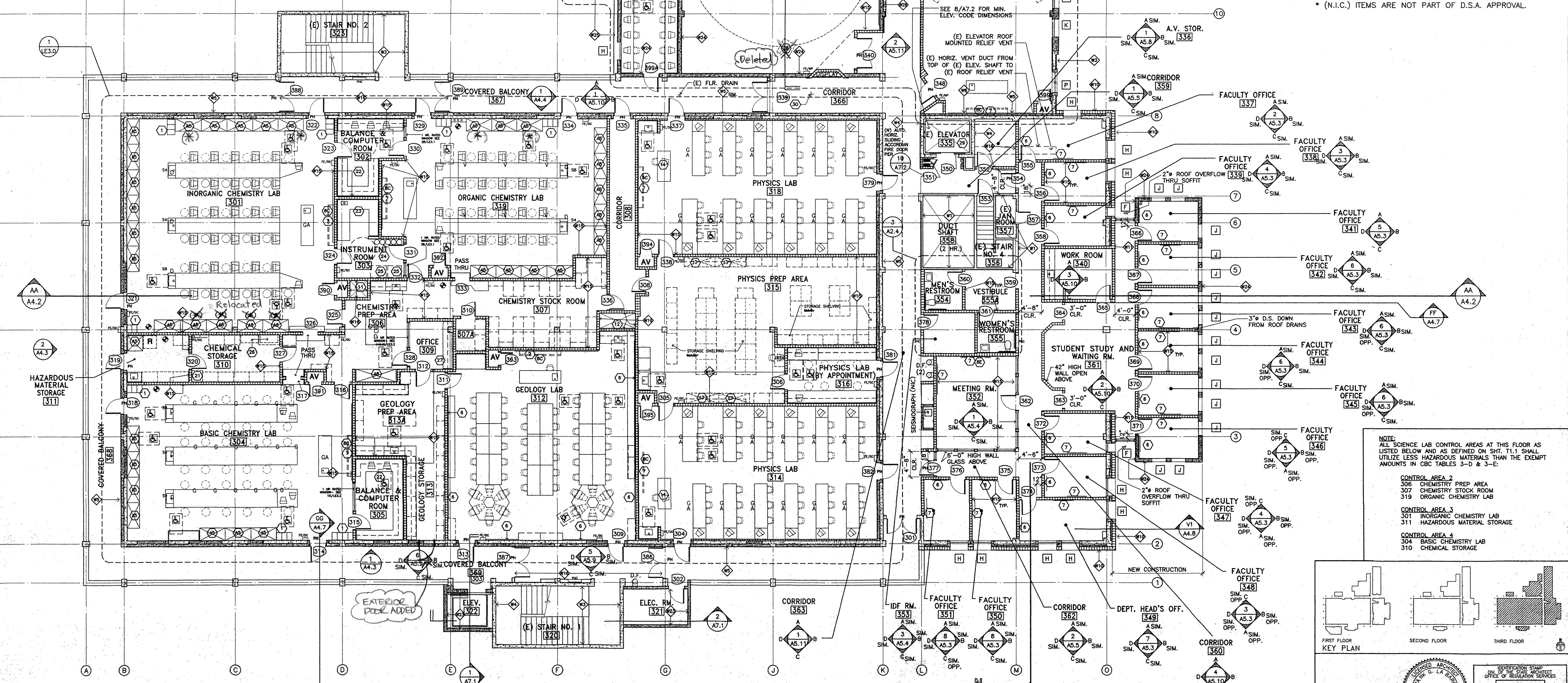
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[Symbol]	EXISTING CONCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH NEW SHOTCRETE	[Symbol]
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[Symbol]	EXISTING CONCRETE WITH METAL STUD FURRING	[Symbol]
[Symbol]	EXIST. CONCRETE WITH NEW SHOTCRETE AND NEW SHOTCRETE	[Symbol]
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[Symbol]	NEW CONCRETE WITH METAL STUD FURRING	[Symbol]
[Symbol]	NEW CONCRETE WITH BRICK VENEER AND METAL STUD FURRING	[Symbol]

- SYMBOL LEGEND FOR SHEET A2.3**
- FUME HOODS**
- (A) FUME HOOD 3' WIDE, PROVIDED WITH VACUUM, GAS, AND ELECT.
 - (B) FUME HOOD 5' WIDE, PROVIDED WITH 2(VACUUM, GAS, AIR), DUPLX ELECT. OUTLETS, CUP SINKS, FAUCETS, AND C.W. SUPPLIES
 - (C) FUME HOOD 8' WIDE, PROVIDED WITH VACUUM, GAS, AIR, ELECT, AND CUP SINK w/ FAUCET AND CW SUPPLY.
- LAMINAR FLOW HOODS**
- (D) ±48" WIDE, PROVIDED WITH GAS AND ELECT.
- NOTES AND EQUIPMENT**
- SINK
 - SAFETY STATION/EYE WASH
 - ACCESSIBLE STATION
 - REFRIGERATOR
 - AV AUDIO/VISUAL CABINET
 - PH PANIC HARDWARE
 - FIRE HOSE CABINET
 - FIRE EXTINGUISHER IN CABINET

NOTE:
EXISTING 5'-0" FUME HOODS (NOTED (A) & (B)) REQUIRE THE CONTRACTOR TO ADD:
1. THE SECOND FLOOR OF SERVICE OUTLETS INCLUDING CUP SINK
2. NEW BASE CABINETS FOR THE (C) STD. HT. UNITS

NOTE:
FUTURE PLANETARIUM/CLASSROOM WITH SUSPENDED HEMISPHERICAL CEILING AND STEPPED SEATING ALL N.I.C. THE FUTURE PLANETARIUM/CLASSROOM WILL HAVE 40 SMART SEATS (w/ COMPUTERS) AND 33 FIXED TABLET ARM SEATS THAT ARE N.I.C.

- NOTE:**
Under the Base Bid, seven (7) of the fume hoods to be installed are existing units which shall be relocated from the temporary buildings and installed in the following locations:
- (#) 1. (A) 5'-0" long fume hood shall be located on the south wall of Inorganic Chemistry Lab #301 (See Sheet A2.3).
 - A. Provide and install a second cup sink in existing cut out, and a second full set of service lines.
 - B. Provide new base cabinets for the three (3) non-accessible units, and relocate the existing accessible base.
 - 2. One (1) each 4'-0" long fume hood and base shall be located in Rooms #203, 217, and 228 (See Sheet A2.2).



Sheet A2.3 General Notes

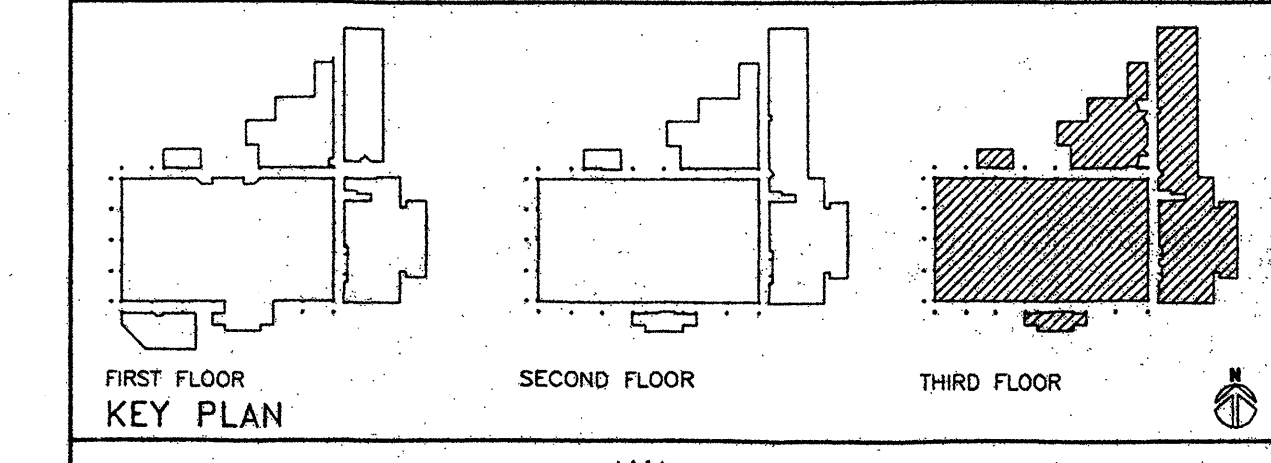
- STUDENT CUBBIES (12"W x 18"D x 18"H) FOR EA. STUDENT IN CLASS
 - COUNTER w/ 18" x 18" GLASS LET IN
 - COUNTER w/ DRAWERS (MIN. 2"W GENERALLY) BELOW
 - CABINETS ABOVE
 - MORTUARY REFRIGERATOR (LIPSHAW MR-6EO) (N.I.C.) *
 - BULLETIN BOARD
 - BROWN-GHAK-BOARDS WHITE MARKER BOARDS
 - PROJECTION SCREEN, 9'Hx12"W, RECESSED, ELECTRICALLY OPERATED.
 - PROJECTION SCREEN, 6'Hx8"W, RECESSED, ELECTRICALLY OPERATED.
 - PROJECTION SCREEN, 6'Hx8"W, BRACKET MTD. TO WALL, MANUAL OP.
 - PROJECTION SCREEN, 5'Hx8"W, BRACKET MTD. TO WALL, MANUAL OP.
 - PROJECTION SCREEN, 5'10"Hx5'10"W, BRACKET MTD. TO WALL, MANUAL OP.
 - 3-DRAWERS BELOW
 - EXHAUST SHAFT FOR 2ND FLOOR - WALLS PER (W1)
 - 3'-4" x 3'-4" CLEAR INSIDE
 - SUPPLY/RETURN SHAFT FOR 2ND FLOOR AHU-3, WALLS PER (W1)
 - 5'-4" INSIDE CLEAR LENGTH, 2'-4" INSIDE CLEAR WIDTH BETWEEN NORTH WALL & NORTH FACE OF FIREPROOFED STEEL BEAM ON COL. LINE (4)
 - DUTCH DOOR
 - UNDERCOUNTER COMPUTER MONITORS NETWORKED TO INSTRUCTOR'S SOURCES
 - STATIONS 13, 14, 23, & 24 MAY BE REMOVED FOR PLANETARIUM PROJECTOR INSTALLATION
 - FULL HT. SHELVING
 - CARTS N.I.C. *
 - CAGING WITH DOOR
 - NOT USED
 - WHITE BOARD
 - ICE MAKER
 - PHONE AND INTERNET CONNECTIONS TO BE PROVIDED
 - CABLE CONNECTIONS TO COMPUTERS IN RM 301.
 - ANCHORED GAS CYLINDERS (N.I.C.) *
 - N.I.C. INSTRUMENT (N.I.C.) *
 - VENTED FLAMMABLE STORAGE CABINET (N.I.C.) *
 - 18" DEEP COUNTER w/ 14" DEEP SHELVES
 - CEILING MOUNTED VIDEO MONITOR, N.I.C. SEE DETAIL (10)
 - FOR SUPPORT ASSEMBLY, MONITOR IS N.I.C. *
 - MODIFY (E) ELEVATOR TO CONFORM TO ACCESSIBILITY STANDARDS. SEE DETAIL A8/7.2
 - AT CONCRETE SLAB, FILL AREAS OF DEPRESSIONS AROUND FORMER FLOOR DRAINS AS NECESSARY TO FORM A LEVEL EVEN PLANE AS A SUBSTRATE FOR NEW RESILIENT FLOORING.
- * (N.I.C.) ITEMS ARE NOT PART OF D.S.A. APPROVAL.

NOTE:
ALL SCIENCE LAB CONTROL AREAS AT THIS FLOOR AS LISTED BELOW AND AS DEFINED ON SHT. T1.1 SHALL UTILIZE LESS HAZARDOUS MATERIALS THAN THE EXEMPT AMOUNTS IN CBC TABLES 3-D & 3-E:

CONTROL AREA 2
306 CHEMISTRY PREP AREA
307 CHEMISTRY STOCK ROOM
319 ORGANIC CHEMISTRY LAB

CONTROL AREA 3
301 INORGANIC CHEMISTRY LAB
311 HAZARDOUS MATERIAL STORAGE

CONTROL AREA 4
304 BASIC CHEMISTRY LAB
310 CHEMICAL STORAGE



Third Floor Plan

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

FOR REFERENCE ONLY

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARPELLAGA
805/963.1728

FRANK LA BARGE, A.I.A.
PRINCIPAL IN CHARGE

RICHARD KRYSYIAN and JIM TREMAINE, A.I.A.
PROJECT ARCHITECTS

BID PACKAGE C LONG BEACH CITY COLLEGE (LIBERAL ARTS CAMPUS)

MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D' (HEALTH/SAFETY CODE CORRECTIONS)

FOR
LONG BEACH COMMUNITY COLLEGE DISTRICT

4901 EAST CARSON STREET
LONG BEACH, CA 90808

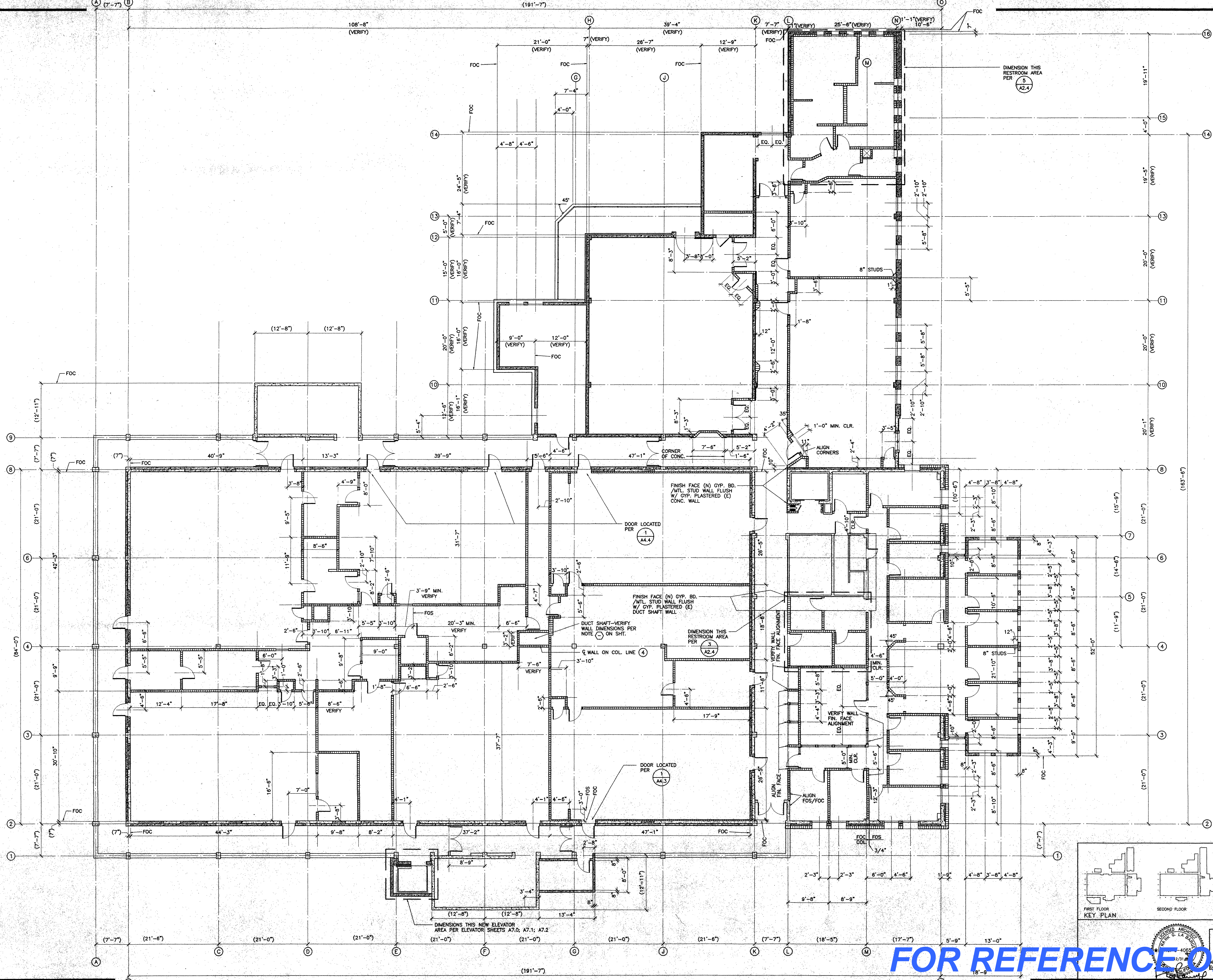
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NO.	DESCRIPTION	DATE	BY

THIRD FLOOR PLAN

SHEET

A2.3



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 30 W. ARRELLAGA SANTA BARBARA, CA 93101
 805.963.1728

FRANK LA BARGE, A.I.A.
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RICHARD KRYSYIAN and JIM TREMAINE, A.I.A.
 PROJECT ARCHITECTS

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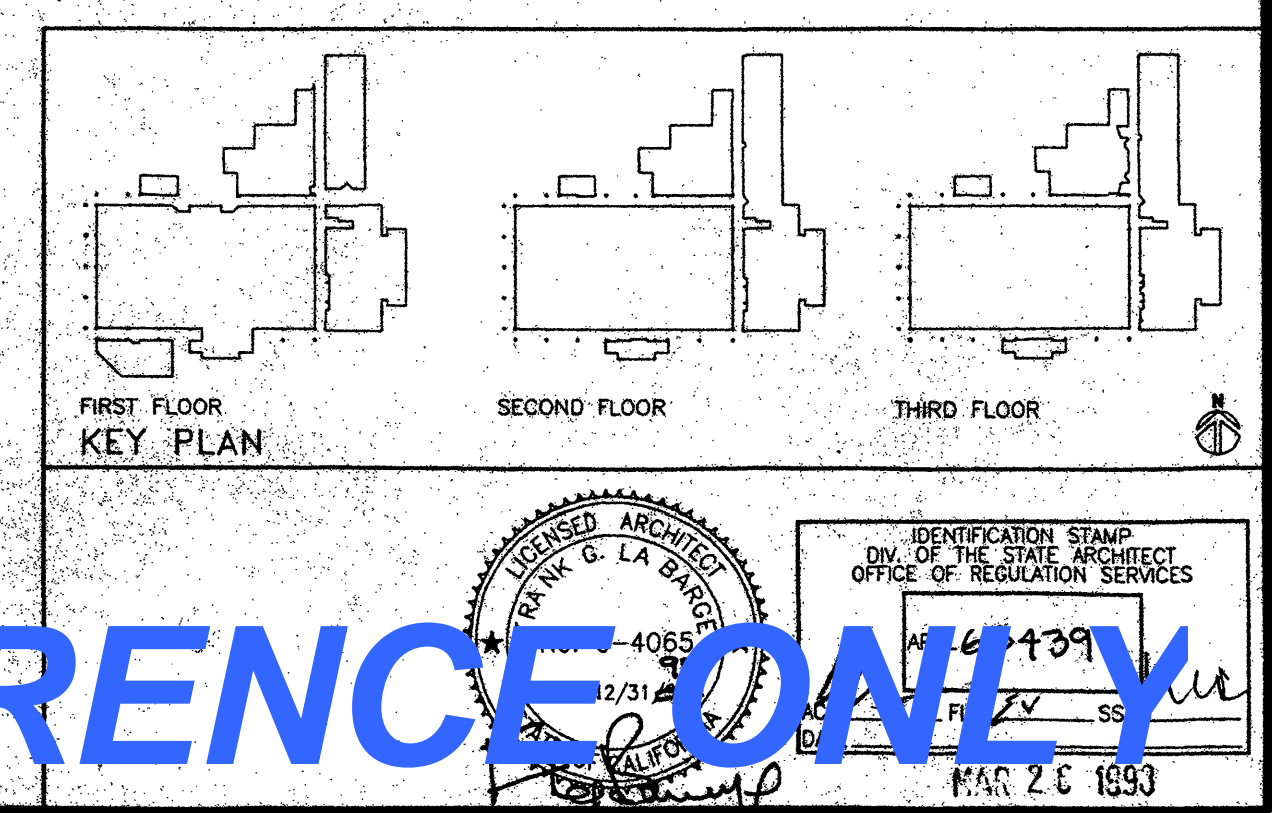
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THIRD FLOOR DIMENSION PLAN

DRAWN: L.J.L.
 CHECKED: F.L.B.
 DATE: 03/26/98
 JOB NO.: 93-42

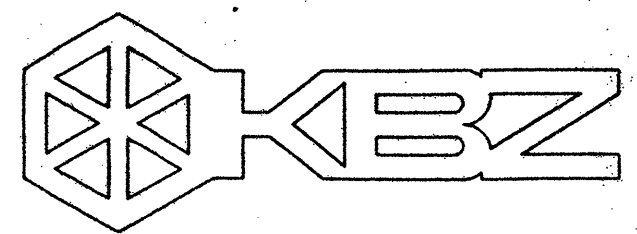
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SHEET: **A2.3D**



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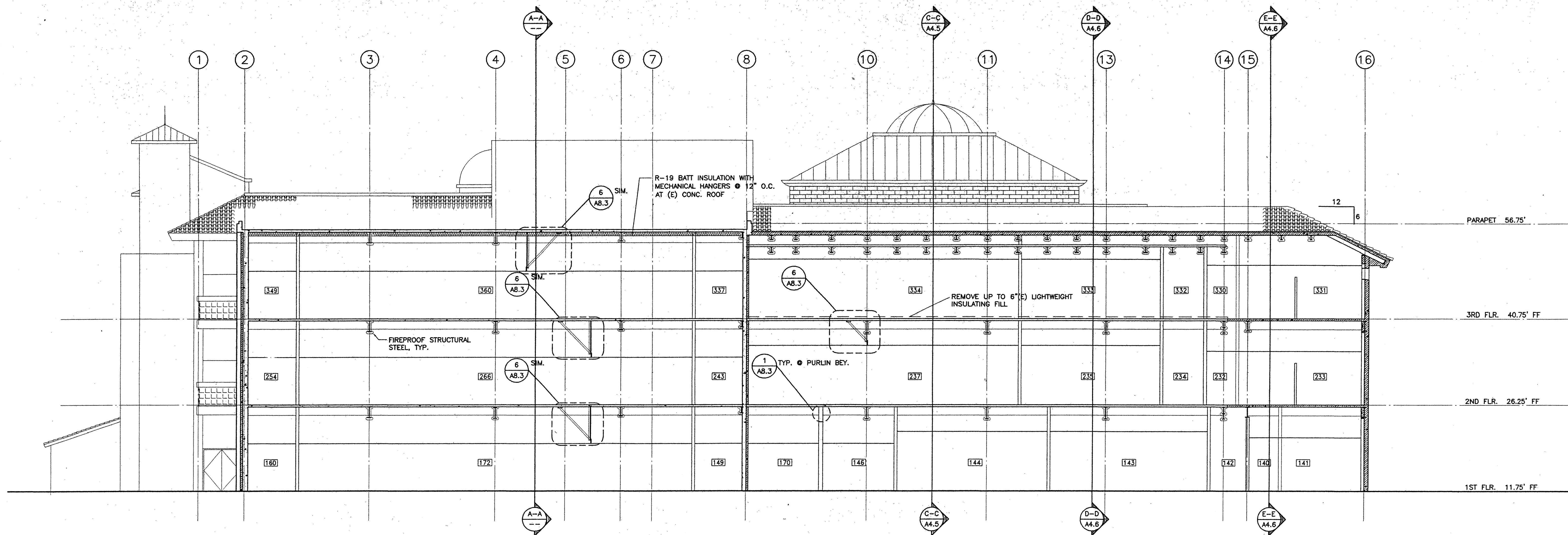
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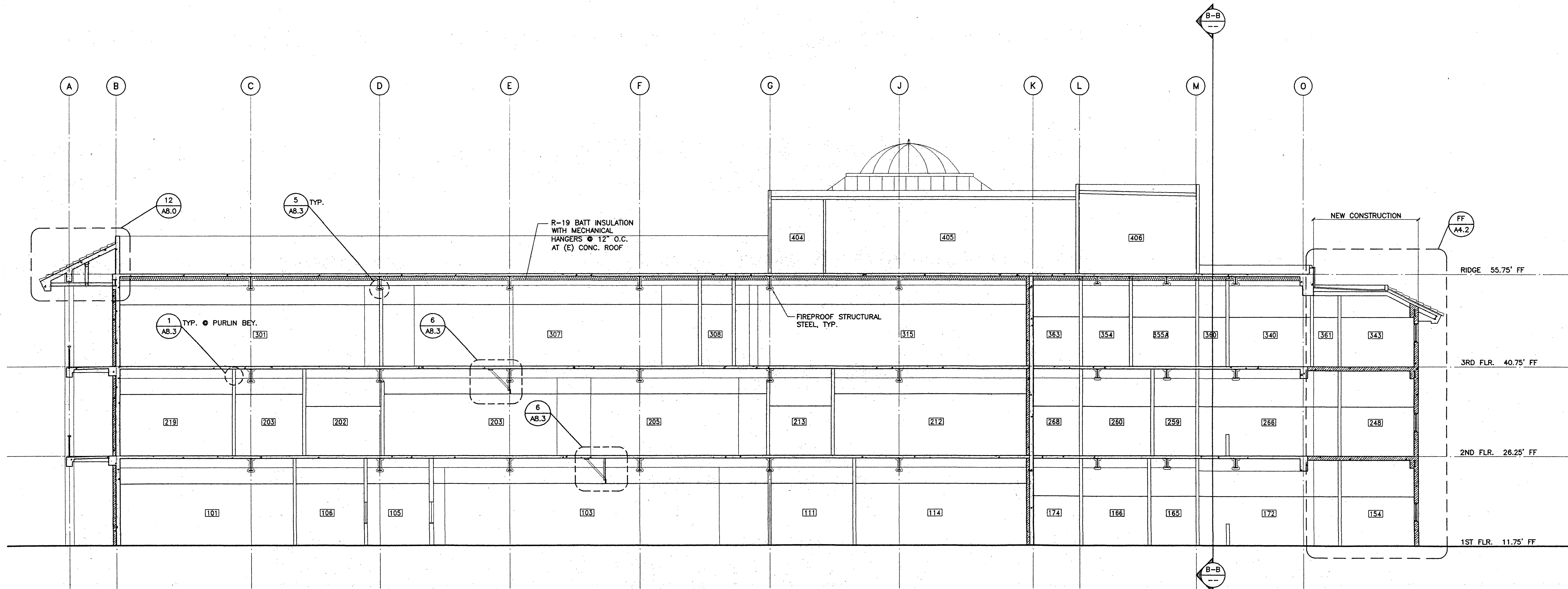
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BB SECTION B-B LOOKING WEST
SCALE: 1/8" = 1'-0"



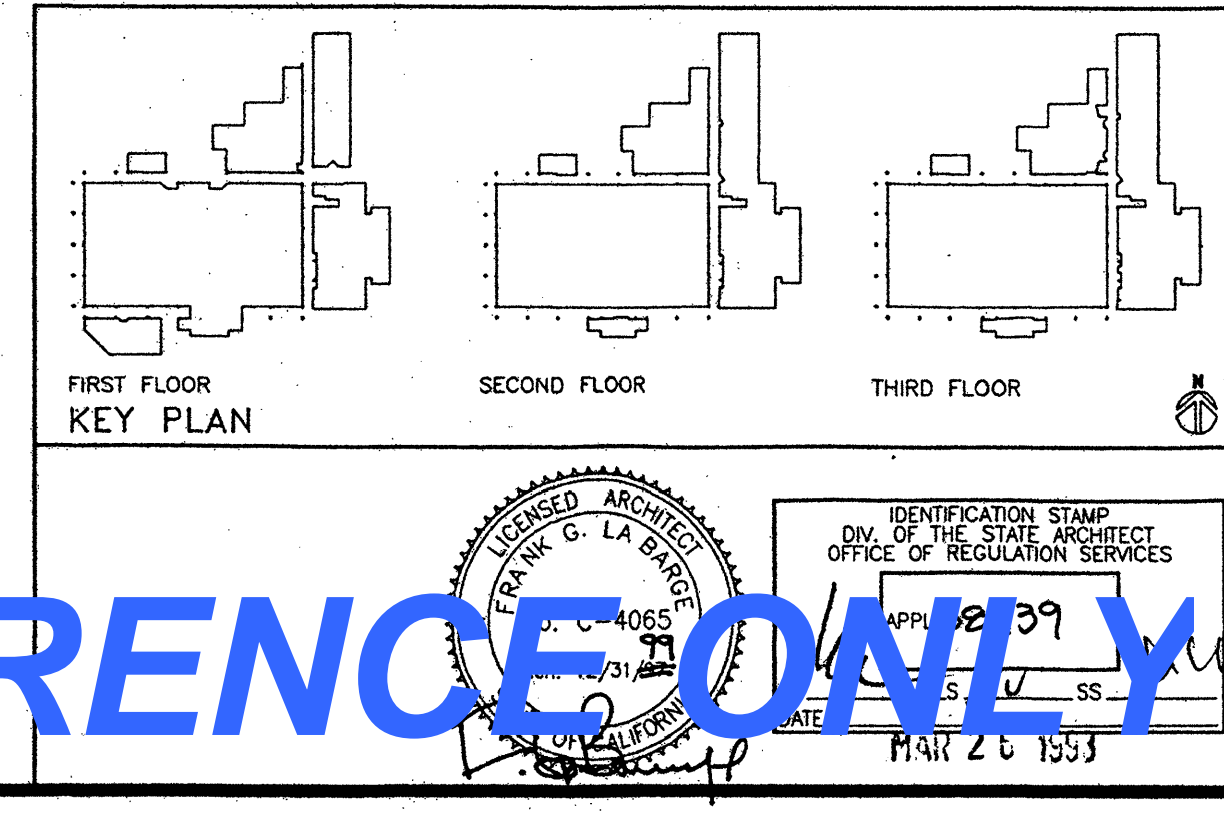
AA SECTION A-A LOOKING NORTH
SCALE: 1/8" = 1'-0"

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LONG BEACH, CA 90808

AS-BUILT

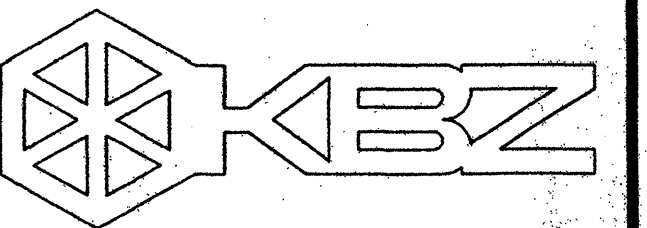
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JOB NO.	93-42
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A-A	
B-B	
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A4.2	



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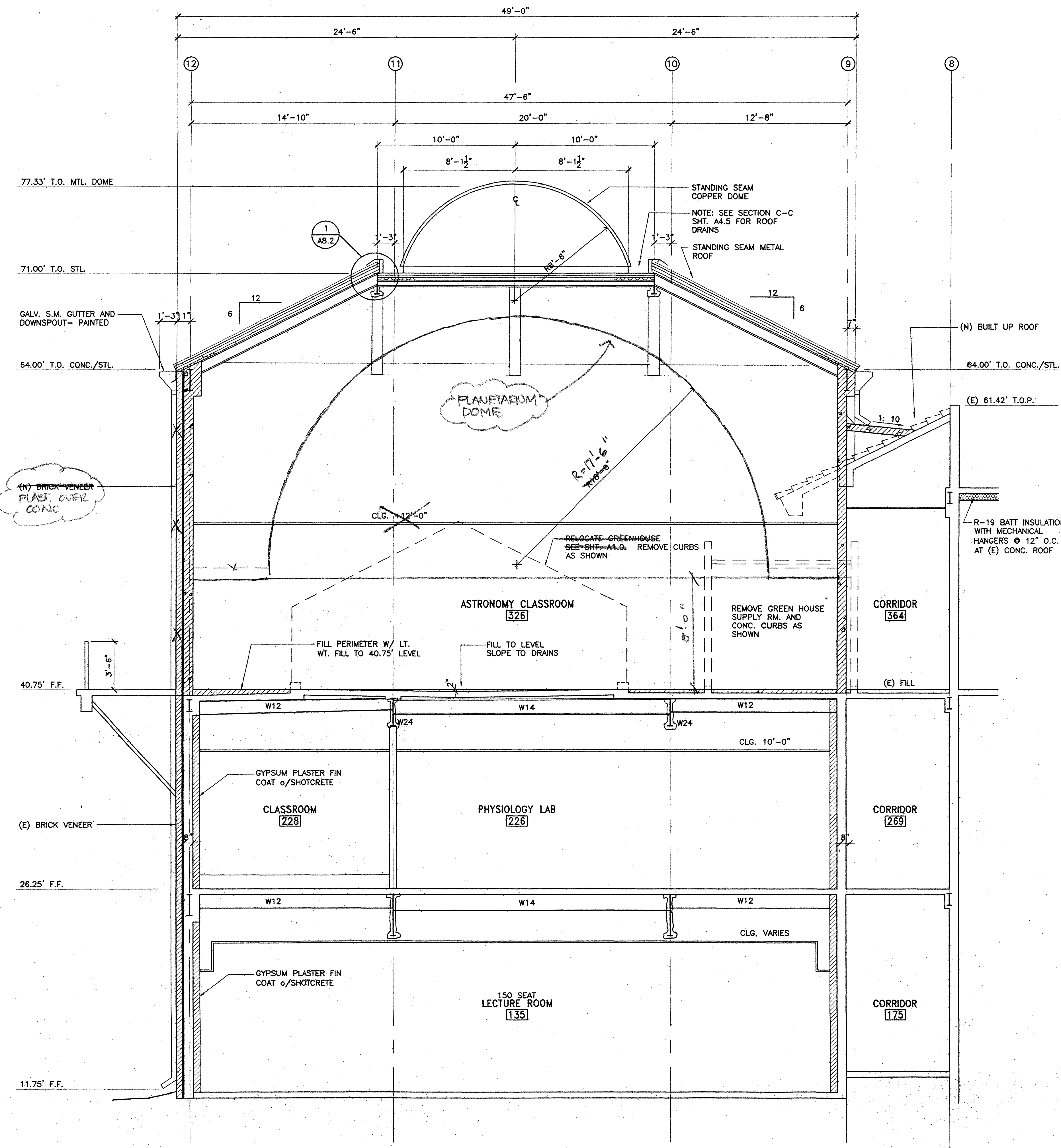
KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 300 W. ARRELLAGA SANTA BARBARA, CA 93101
 805.963.1728

FRANK LA BARGE, A.I.A.

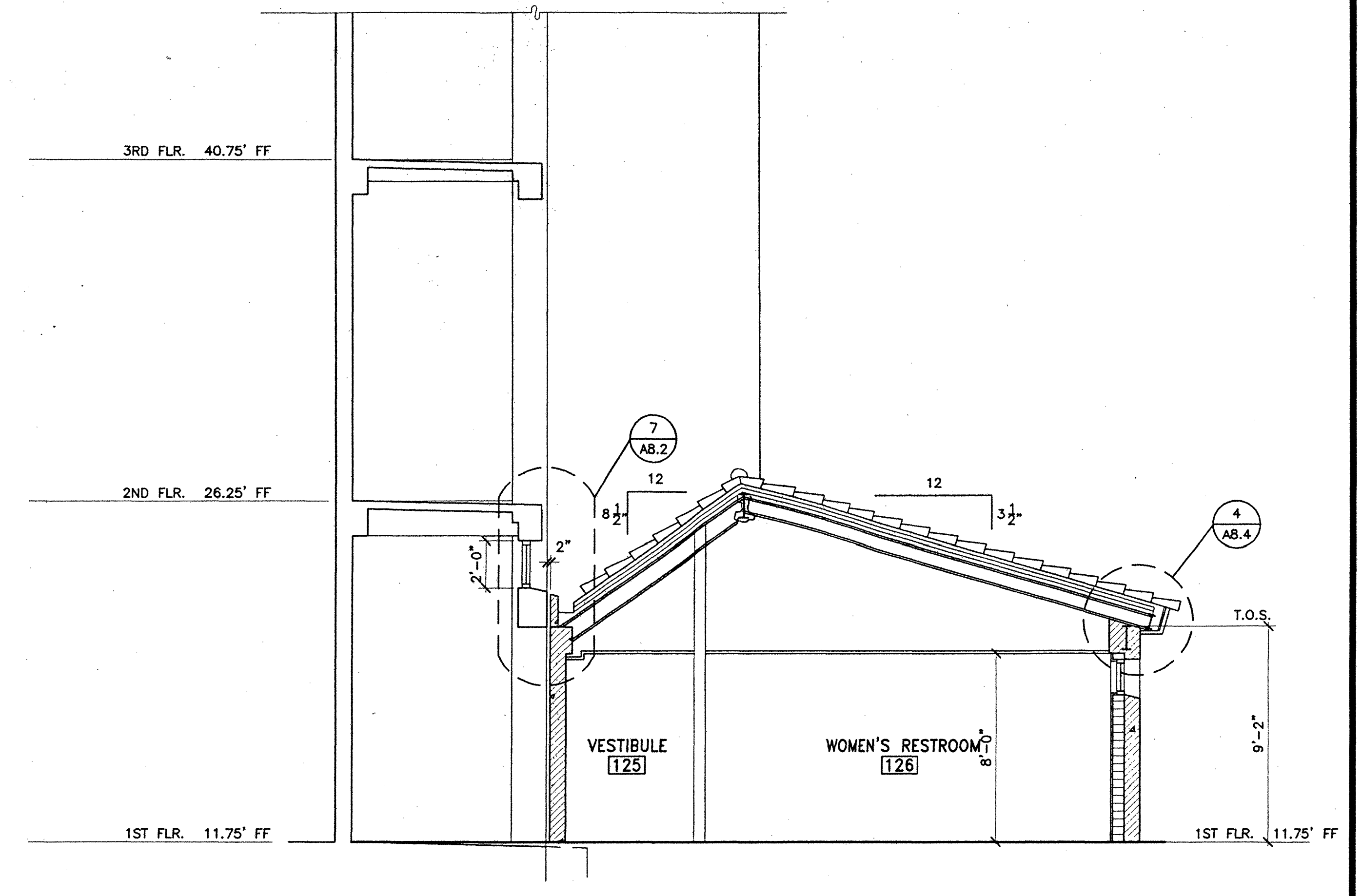
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RICHARD KRYSZTIAN and JIM TREMAINE, A.I.A.
 PROJECT ARCHITECTS

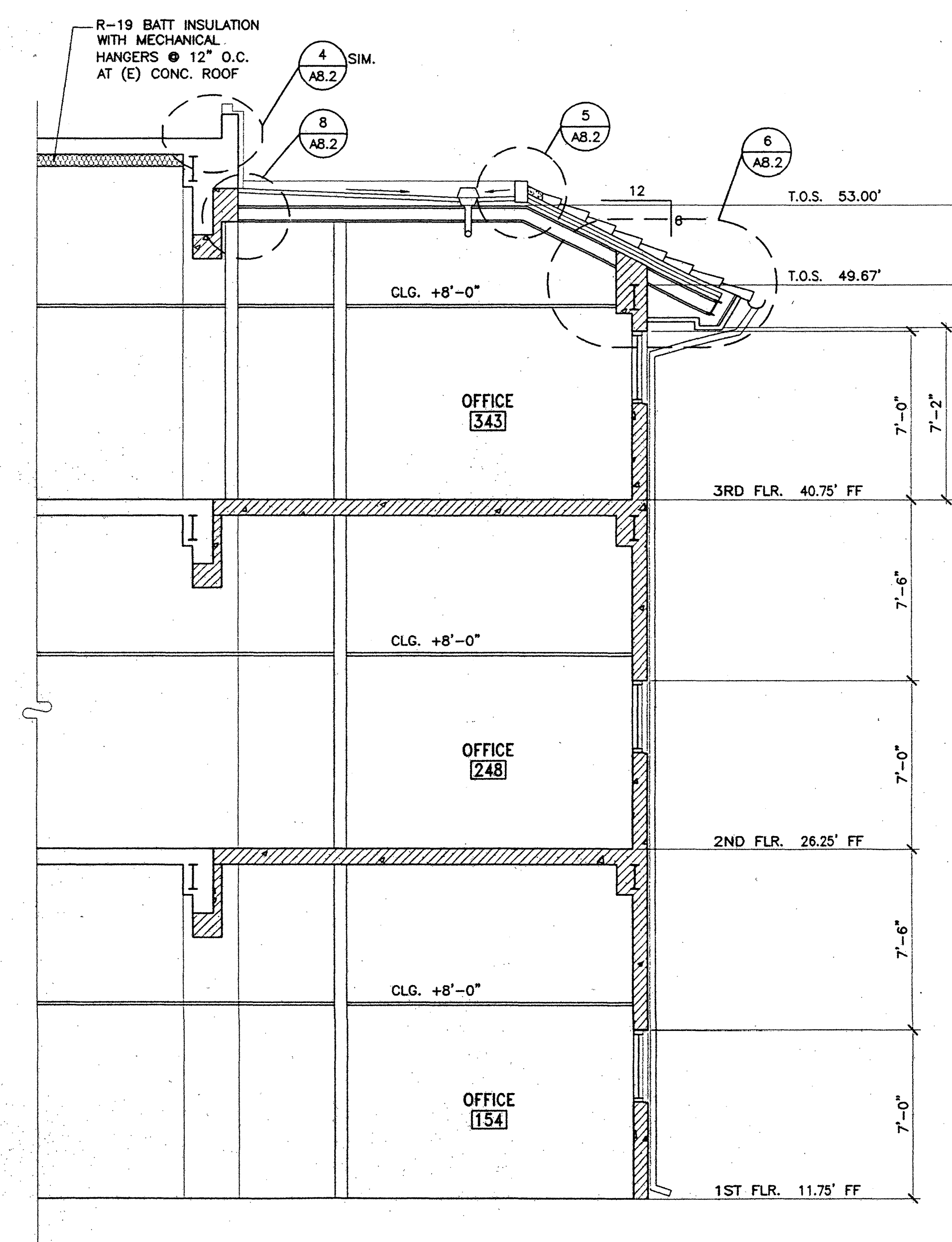
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SECTION H-H LOOKING EAST
 SCALE : 1/4" = 1'-0"



SECTION G-G LOOKING EAST
 SCALE : 1/4" = 1'-0"



SECTION F-F LOOKING NORTH
 SCALE : 1/4" = 1'-0"

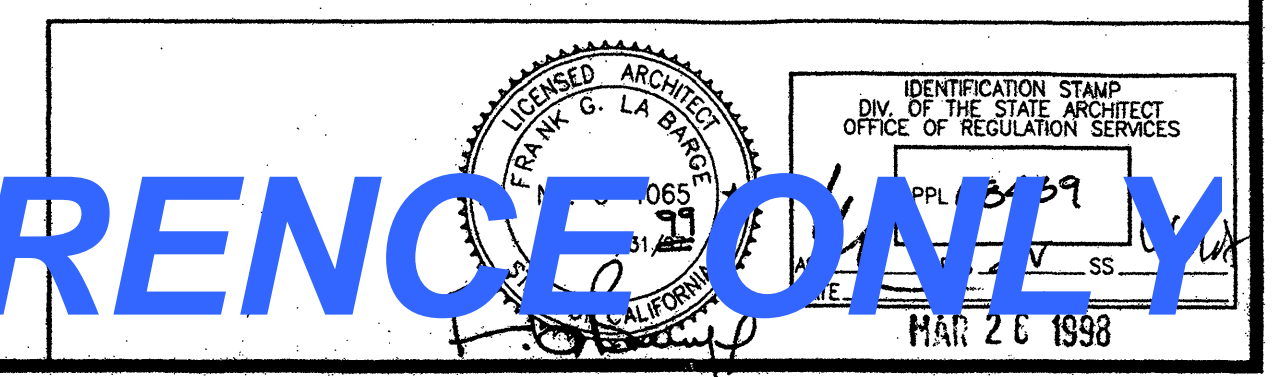
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AS-BUILT

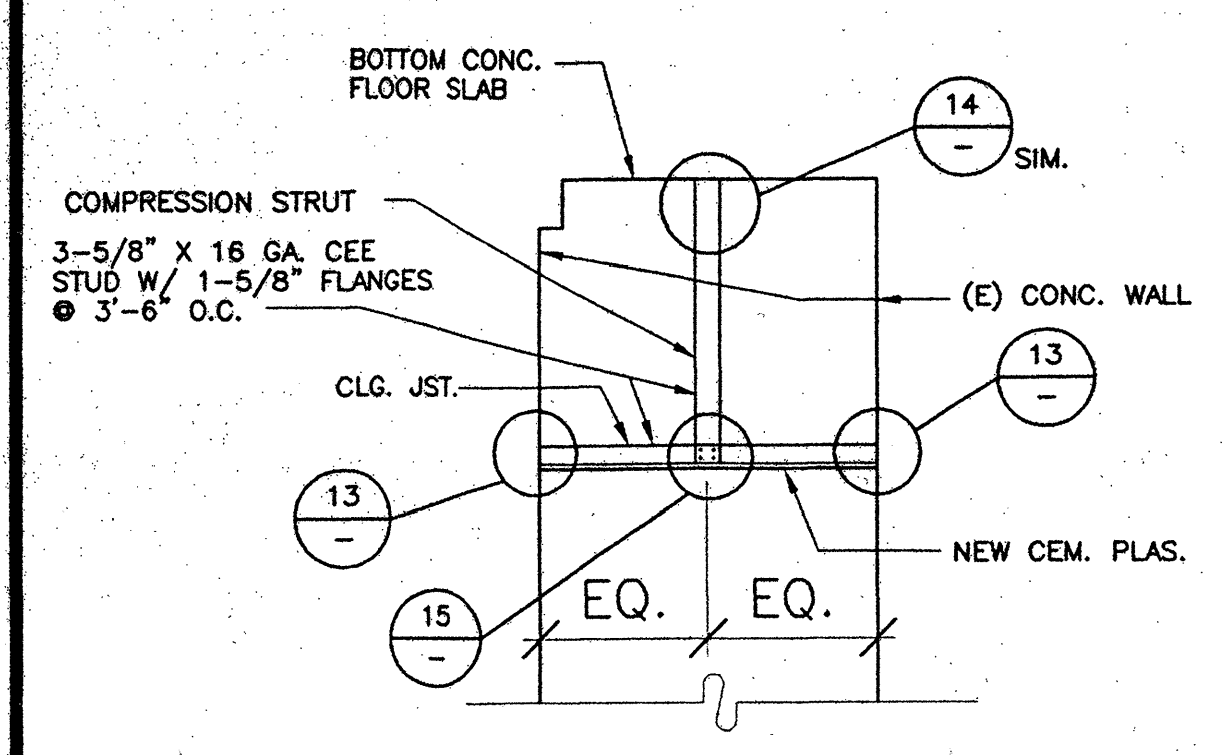
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OF	

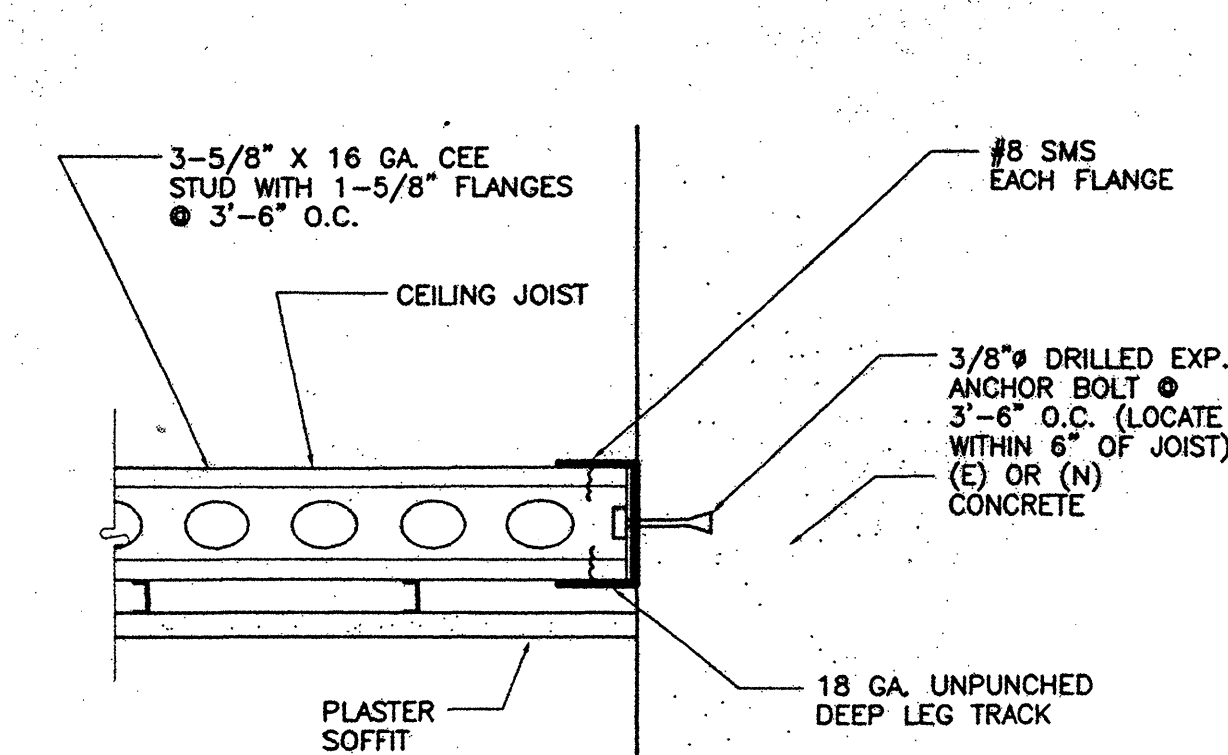
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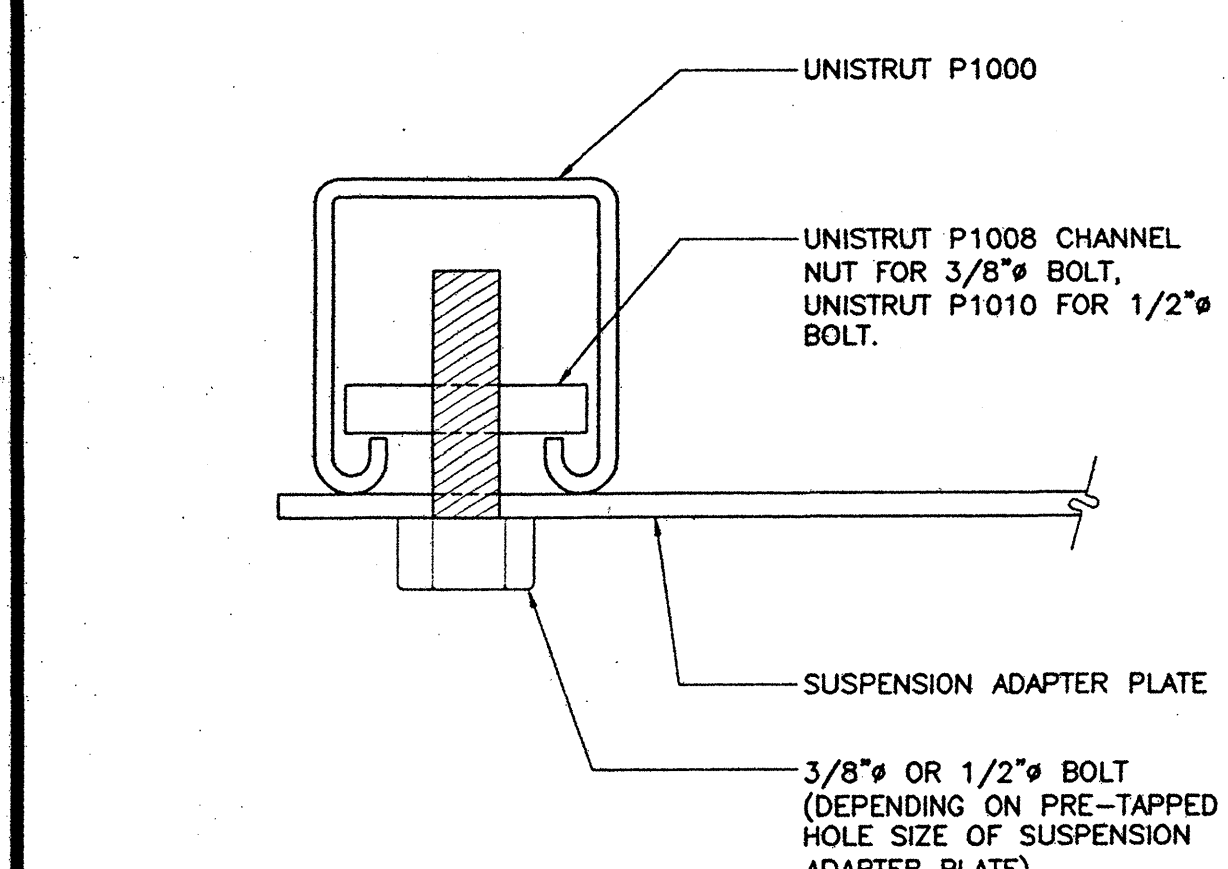
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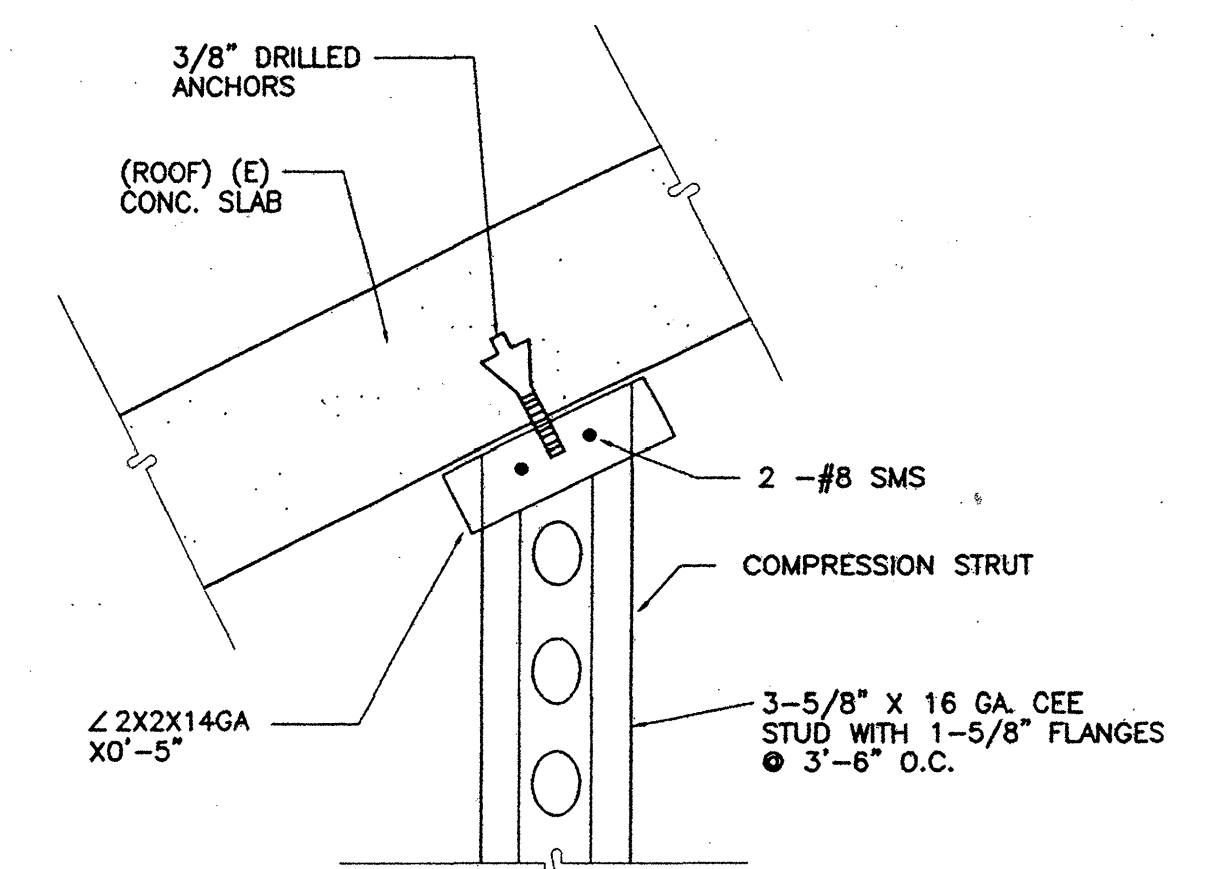
16 Section at 8'-0" High Plaster Ceiling at Stair
SCALE: 1/4"=1'-0"



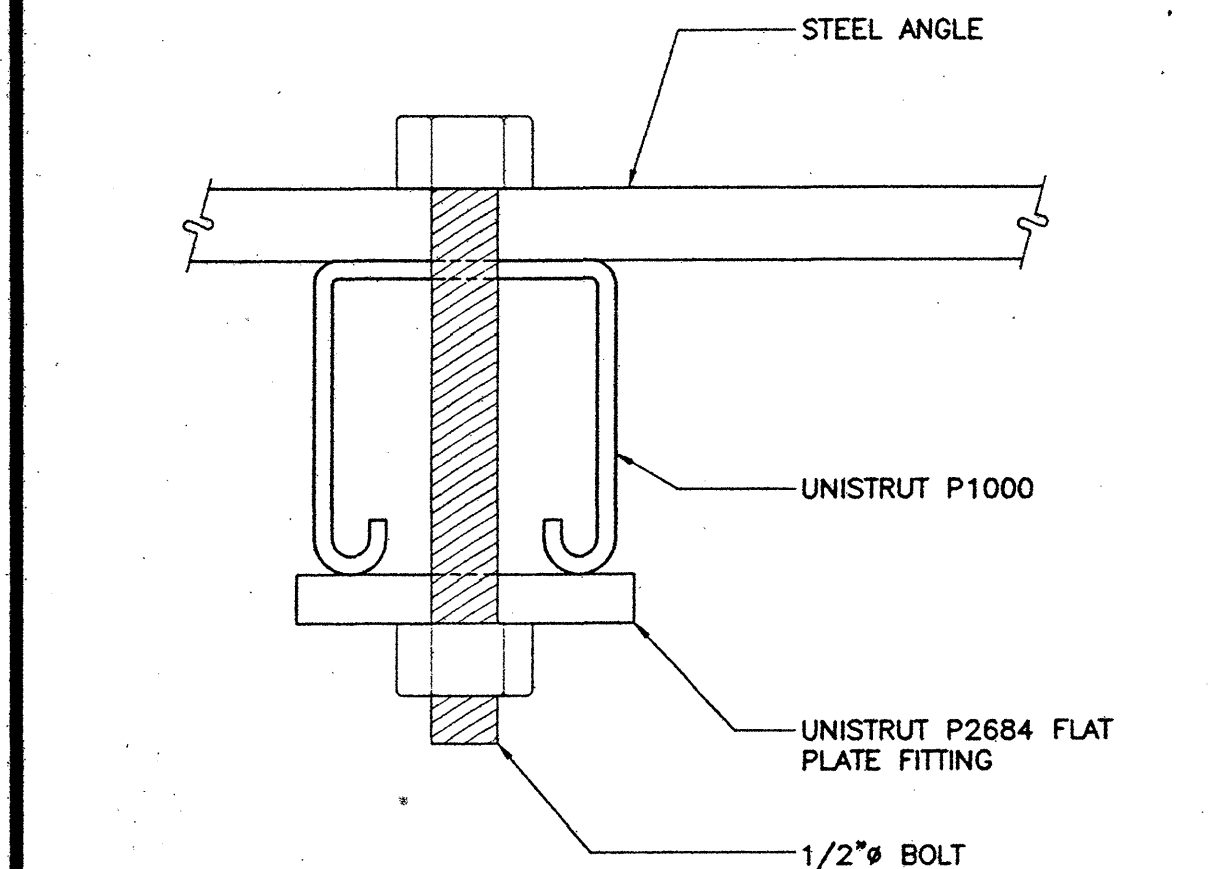
13 Ceiling Joist to Concrete Beam
SCALE: 1-1/2"=1'-0"



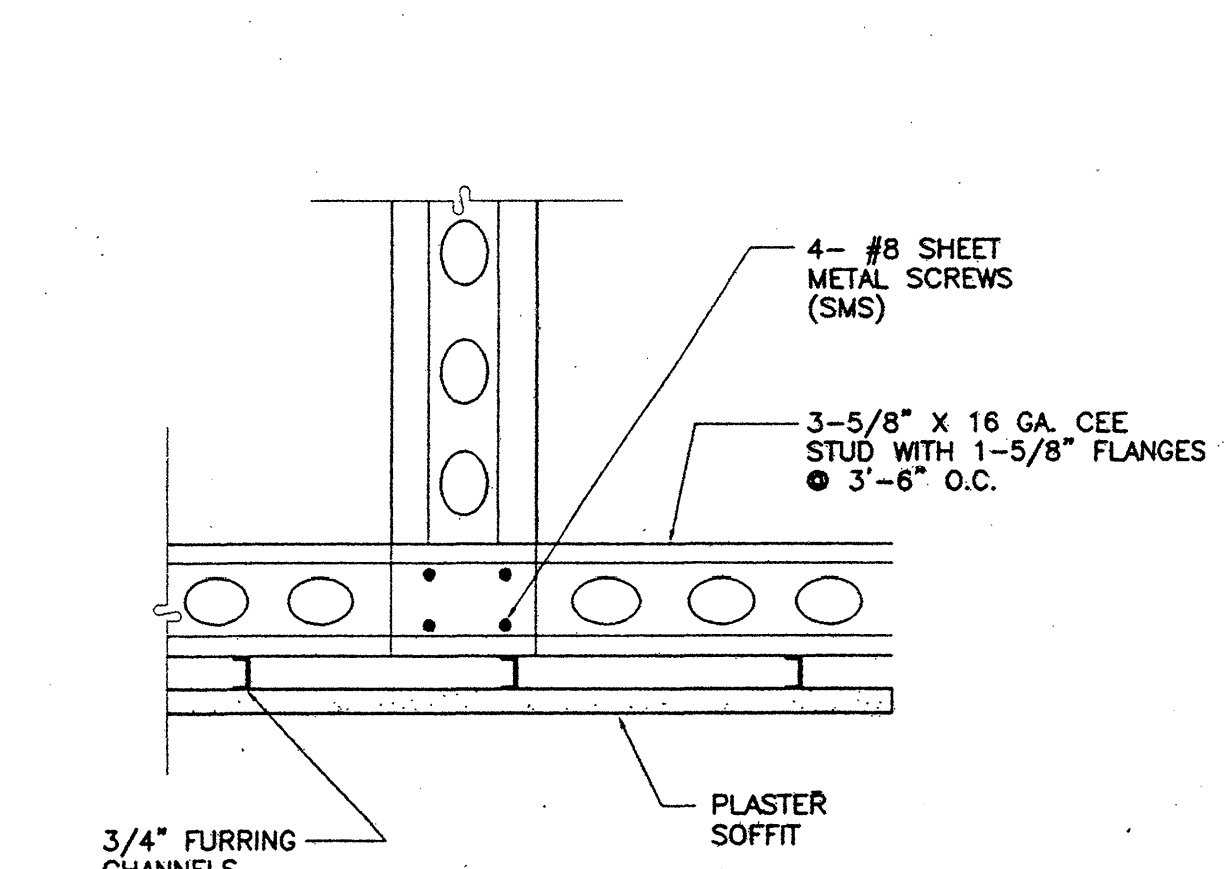
17 Suspension Adapter Plate to Unistrut
SCALE: FULL SCALE



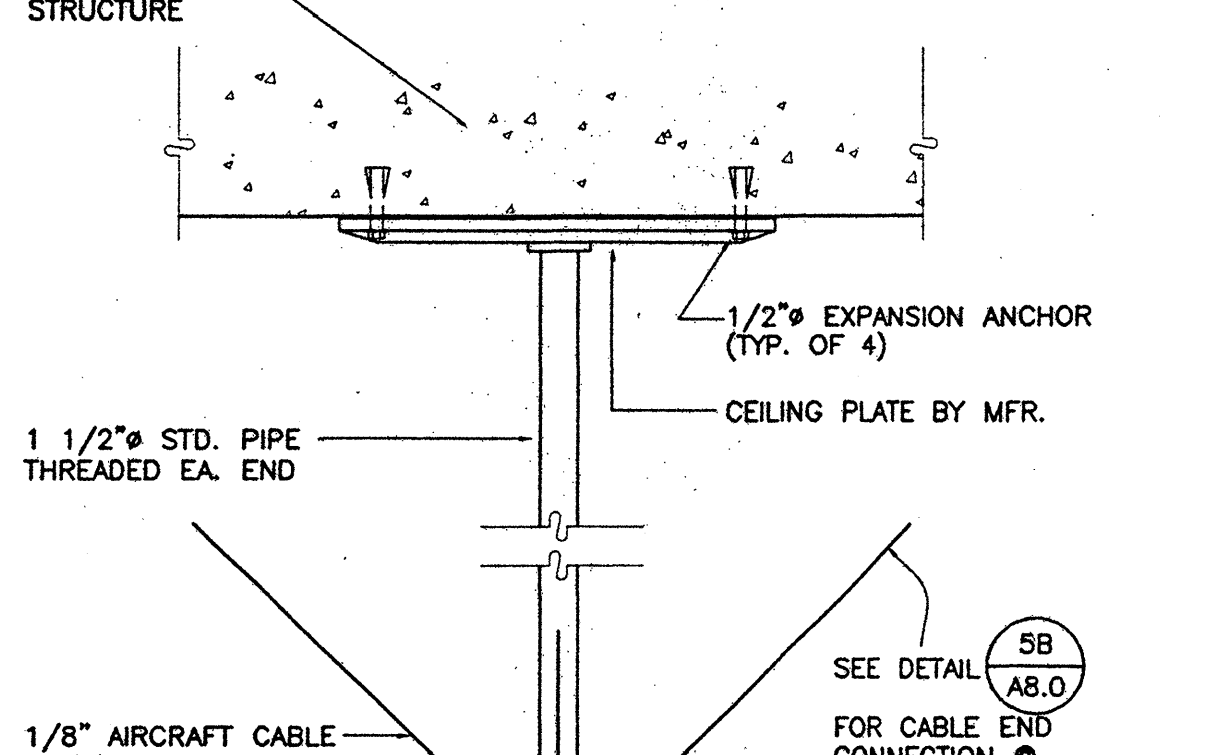
14 Strut to Roof Slab
SCALE: 1-1/2"=1'-0"



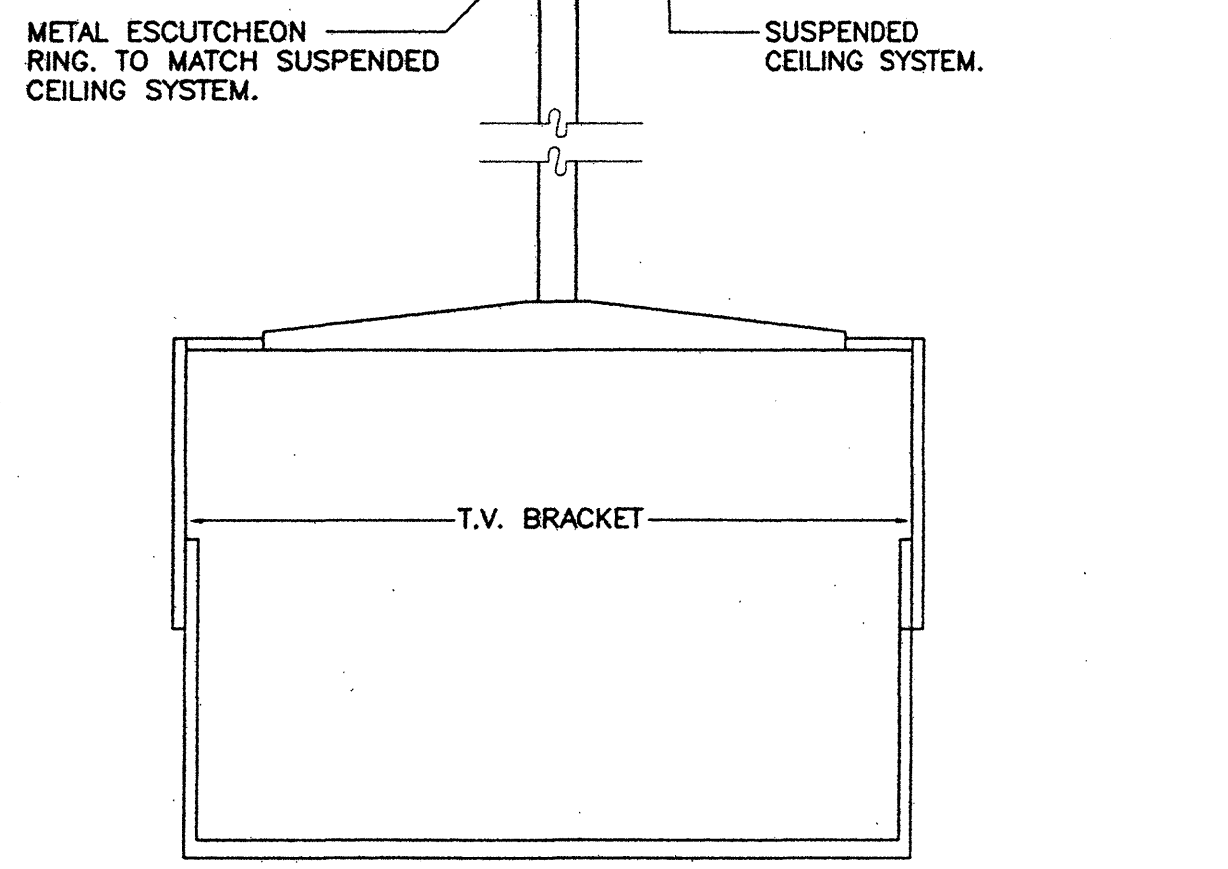
18 Unistrut Connection to Steel Angle
SCALE: FULL SCALE



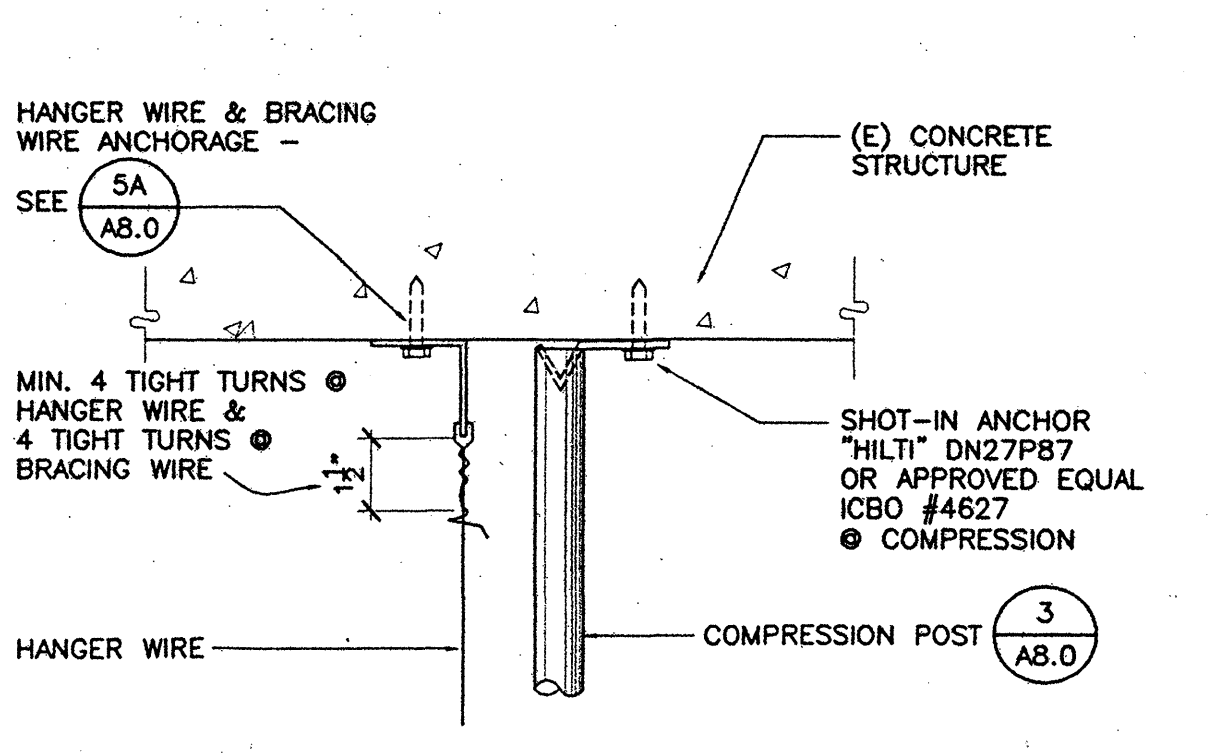
15 Strut to Ceiling Joist
SCALE: 1-1/2"=1'-0"



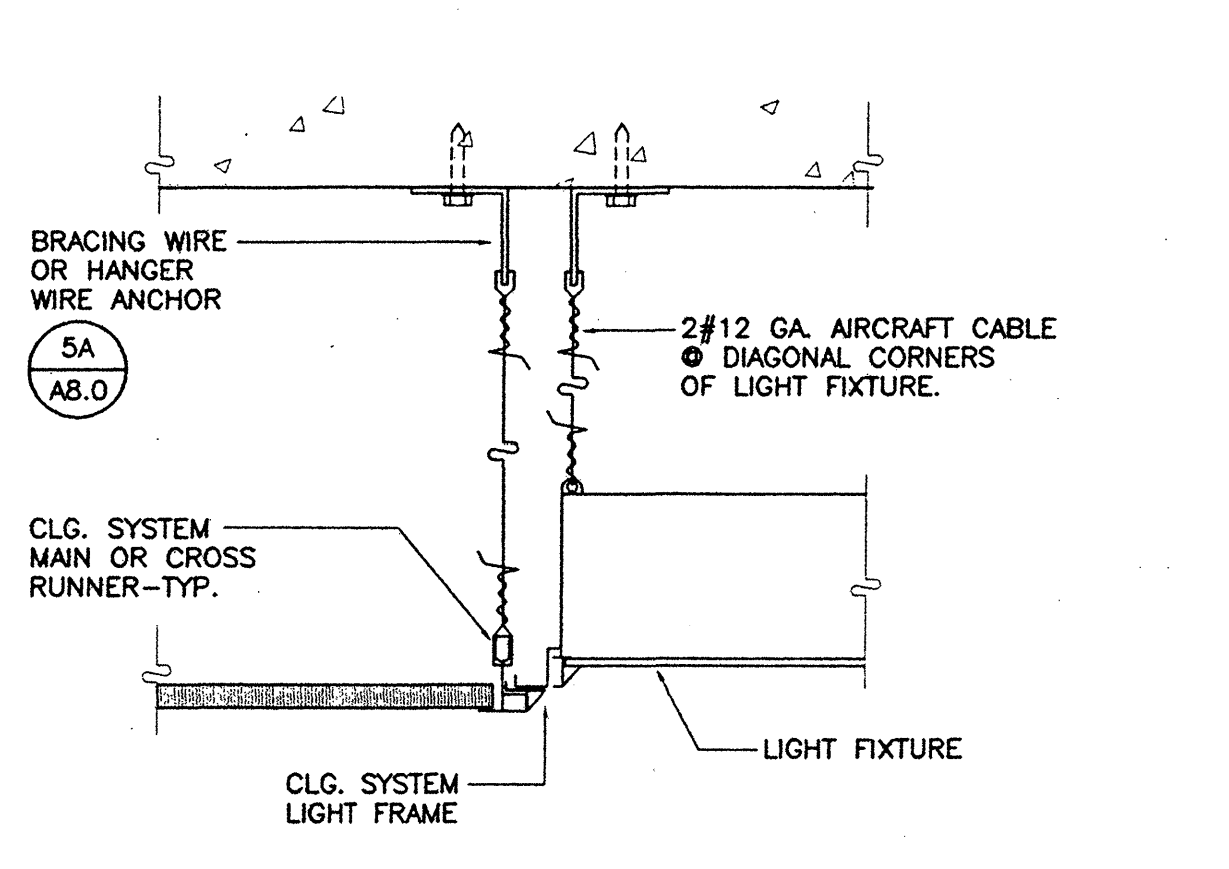
10 Monitor Ceiling Bracket
SCALE: 1 1/2" = 1'-0"



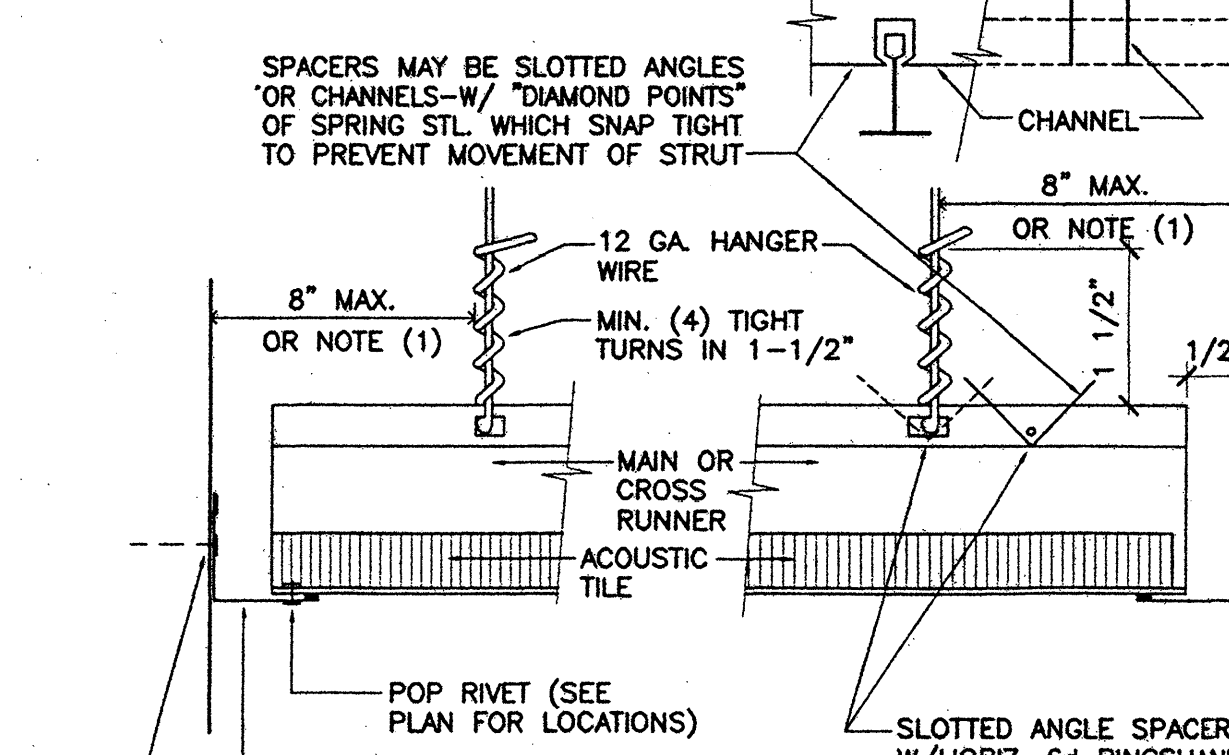
12 Section at Plaster Ceiling - 3rd Floor Balcony
SCALE: 1/4"=1'-0"



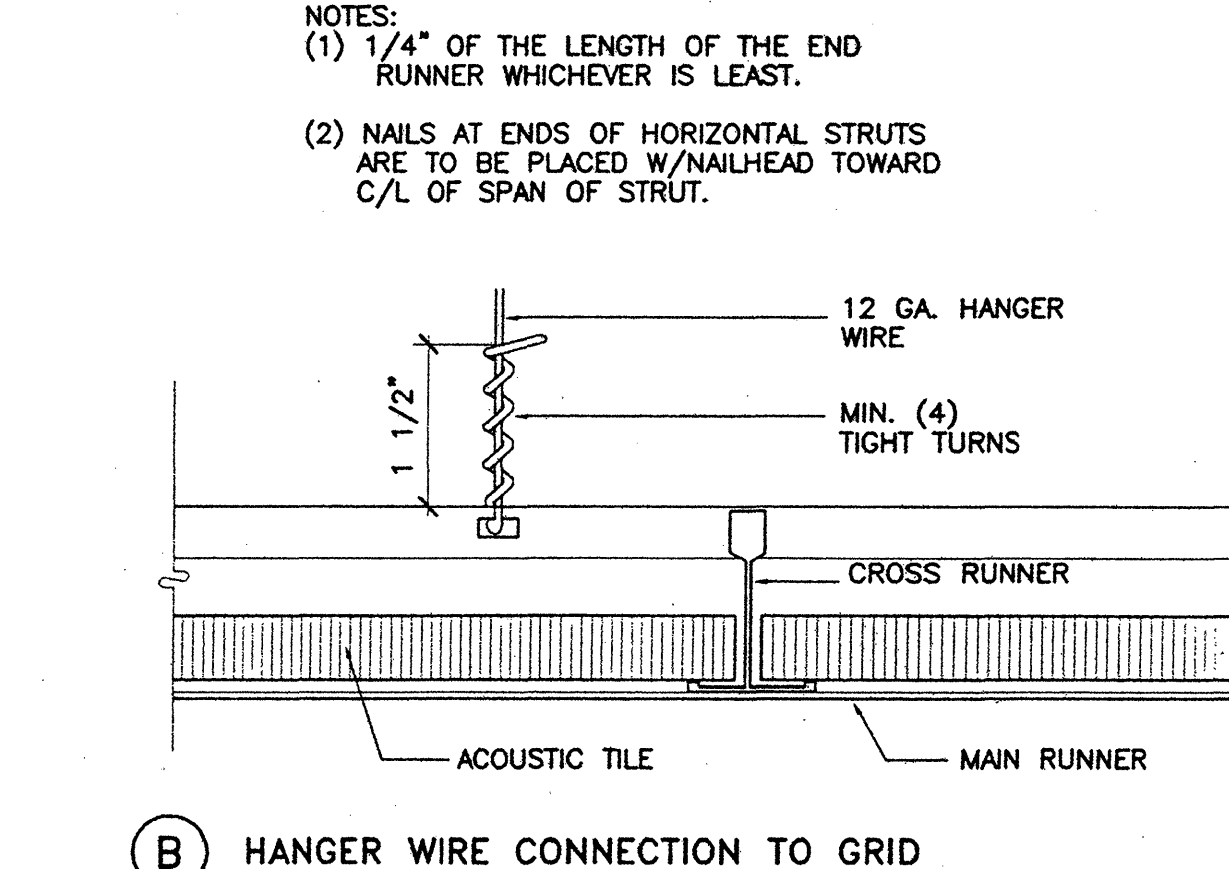
6 Compression Post Anchor
SCALE: 3" = 1'-0"



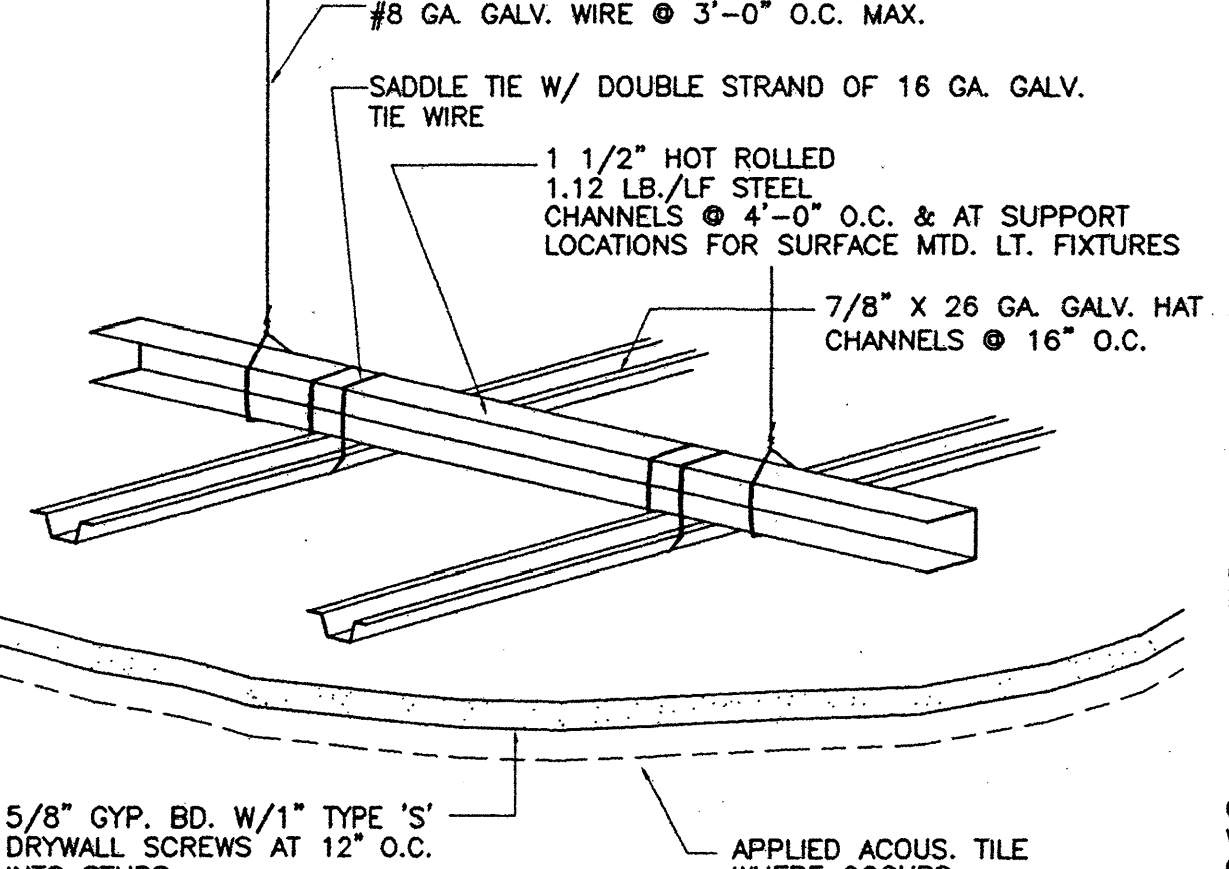
7 Bracket Support
SCALE: 3" = 1'-0"



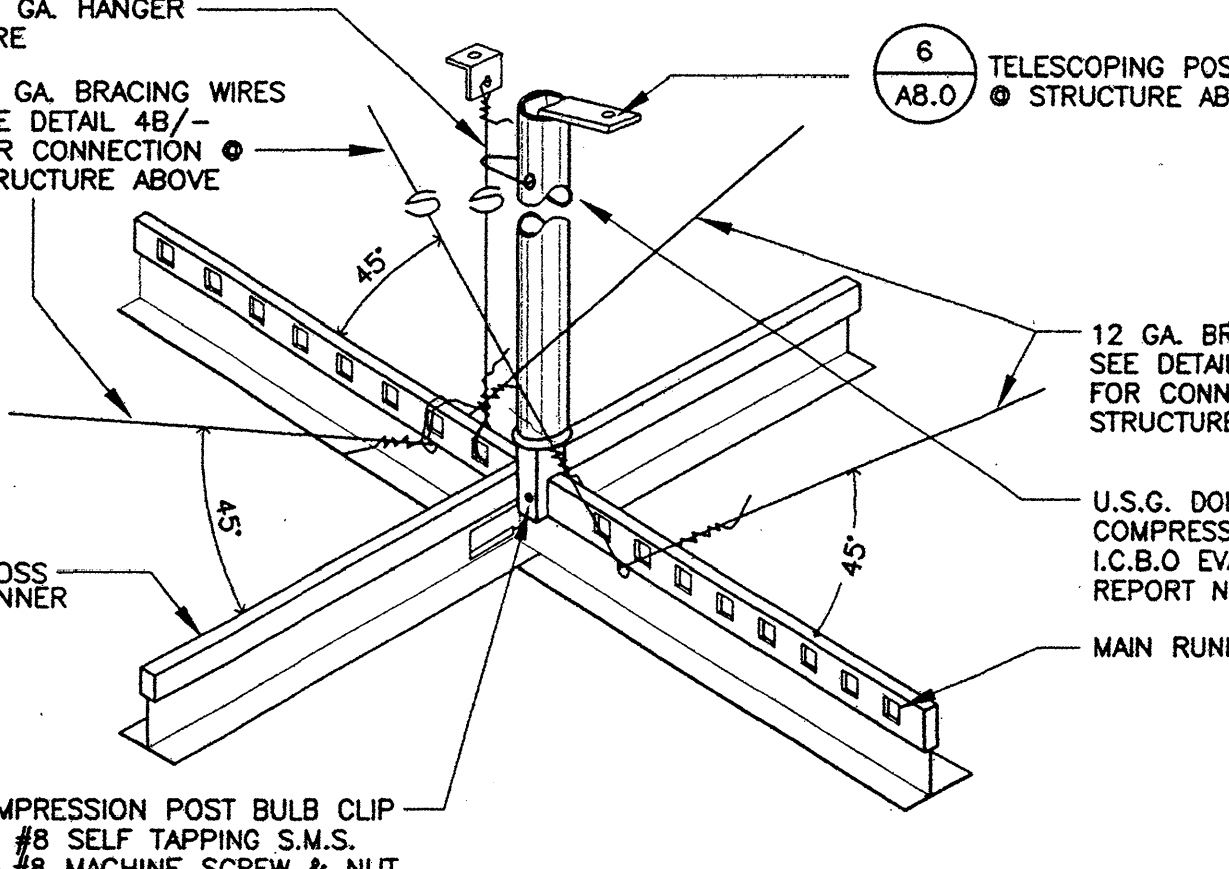
2 Ceiling Grid Connection
SCALE: 1 1/2" = 1'-0"



2 HANGER WIRE CONNECTION TO GRID



8 Suspended Gypsum Board Ceiling
SCALE: NONE



3 Compression Post Detail
SCALE: NO SCALE

SUSPENDED DRYWALL CEILING NOTES (R47-5)

(a) **General:** Gyboard suspended ceiling systems shall be designed and constructed in accordance with provisions of Title 24, COR and the following interpretations may be used as additional guidelines.

(b) **Material:** Materials are to comply with applicable UBC standards. Gypsum Board is one layer of 1/2" x 5/8" thick type 'X'.

(c) **Details of Construction:**

(1) **General:** Gyboard ceilings shall not support materials or building components other than grilles, light fixtures, small electrical conduits, small ducts and the like. All such components should be supported either directly from main runners, or by supplemental framing which is supported by main runners. No vertical loads other than gyboard dead load should be applied to cross-furring.

(2) **Vertical Support Systems:**

(A) Space hangers and main runners at 4'-0" o.c. In addition the following requirements must be met:

- Vertical hanger wires are No. 8 gage and galvanized; however, if ceiling is non-accessible, a No. 12 gage wire hanger may be used.
- Main runners are 1-1/2" steel channels, 1.12#/ft. minimum, hot rolled.
- Cross-furring shall be 7/8", 26 gage galvanized hat sections at 16" maximum c.c.

(B) The following requirements apply to all wire hanger/runner combinations:

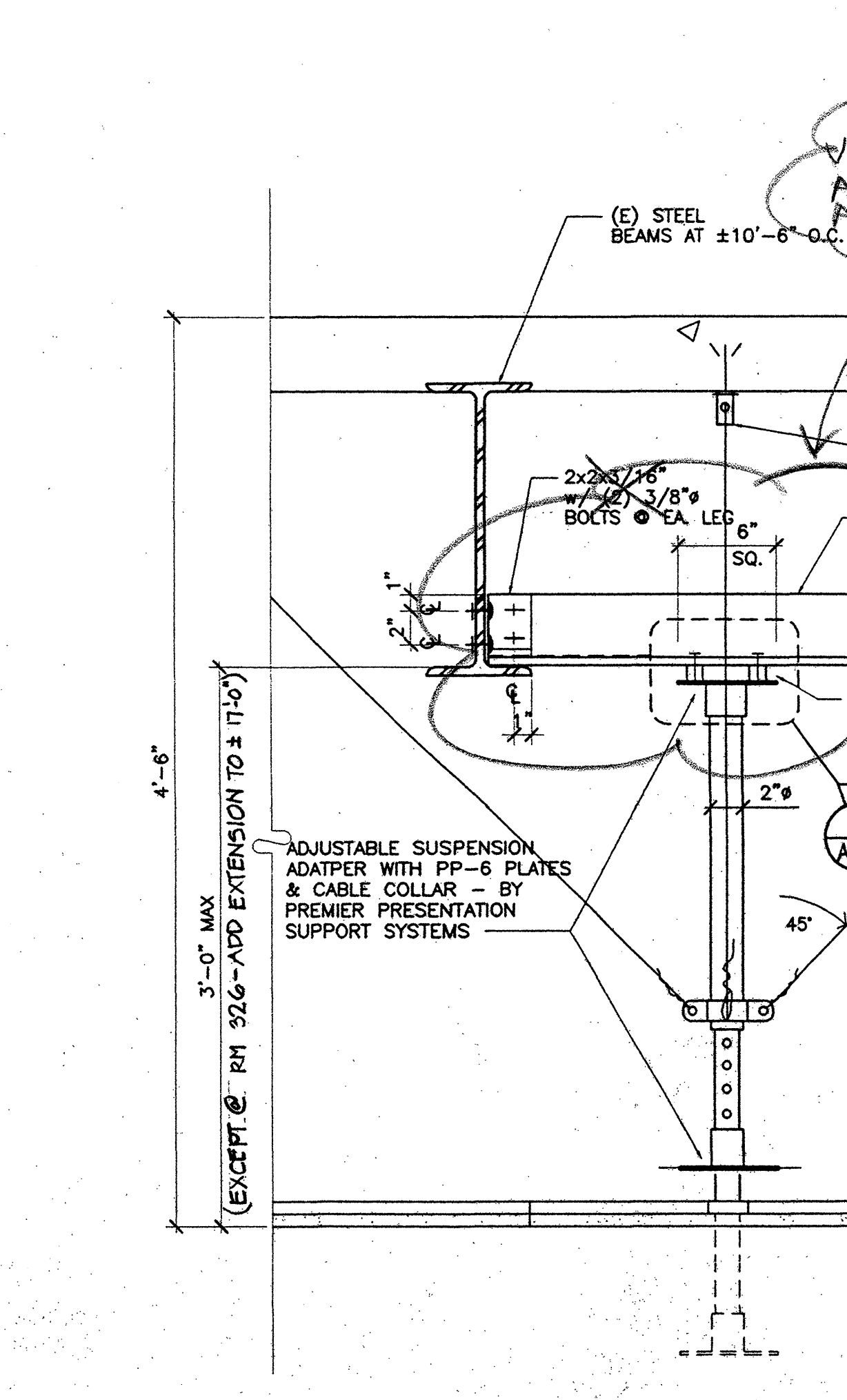
- Hangers should be saddle-tied around main runners to develop the full strength of the hangers.
- Cross-furring should be saddle-tied to the main runners with one strand of No. 16 or two strands of No. 18 gage tie wire.
- Main runners should be spliced by lapping and interlocking flanges 12" minimum and tying near each end with double loops of No. 16 gage wire.
- Cross-furring should be spliced by lapping and interlocking the pieces 8" minimum and tying near each end with double loops of No. 16 gage wire.

(d) **Light Fixtures Supports:**

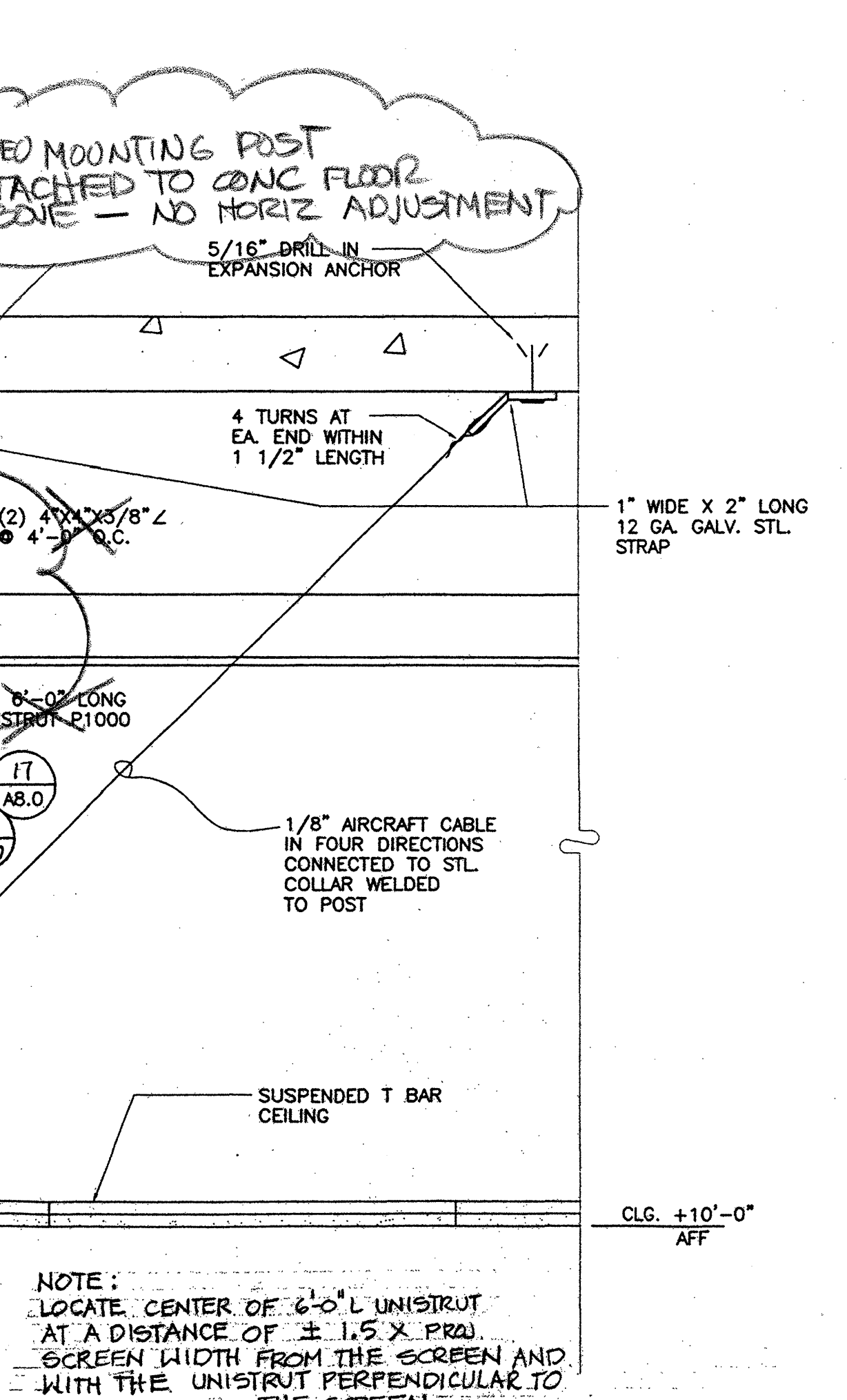
- All recessed or drop-in light fixtures should be supported directly by main runners or by supplemental framing which is supported by main runners.
- Surface mounted fixtures should be attached to a main runner with a positive clamping device made of material with a minimum of 14 gage. Rotational spring catches do not comply.

(e) **Lateral System:**

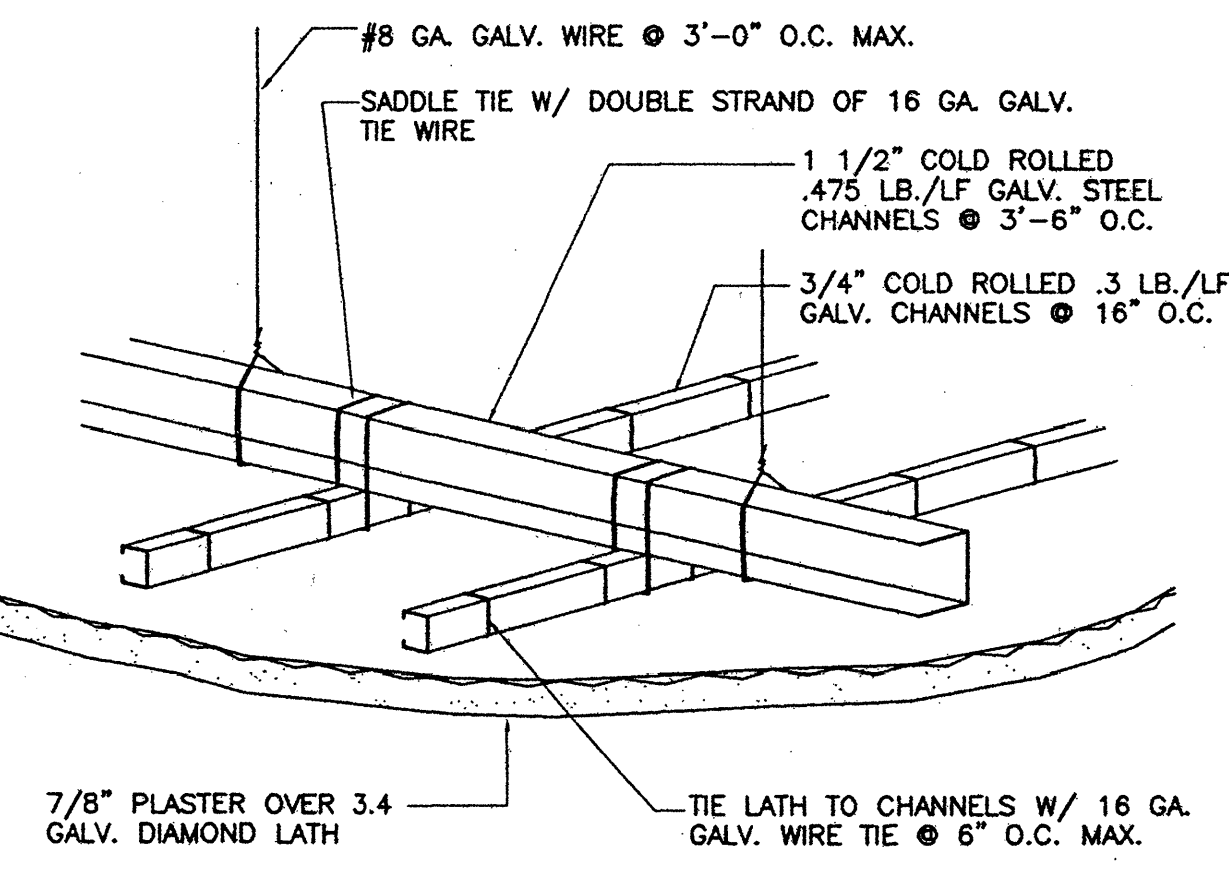
- Seismic brace to ceiling above as for acoustical tile suspension system. Use #12 diagonal wires spaced on a 12" x 12" grid with 6'-0" of walls. Seismic brace to be located at intersection of main runner and cross-furring member. Provide connection between diagonal wires and main runner so as to prevent slipping for a 200# approximate seismic load.



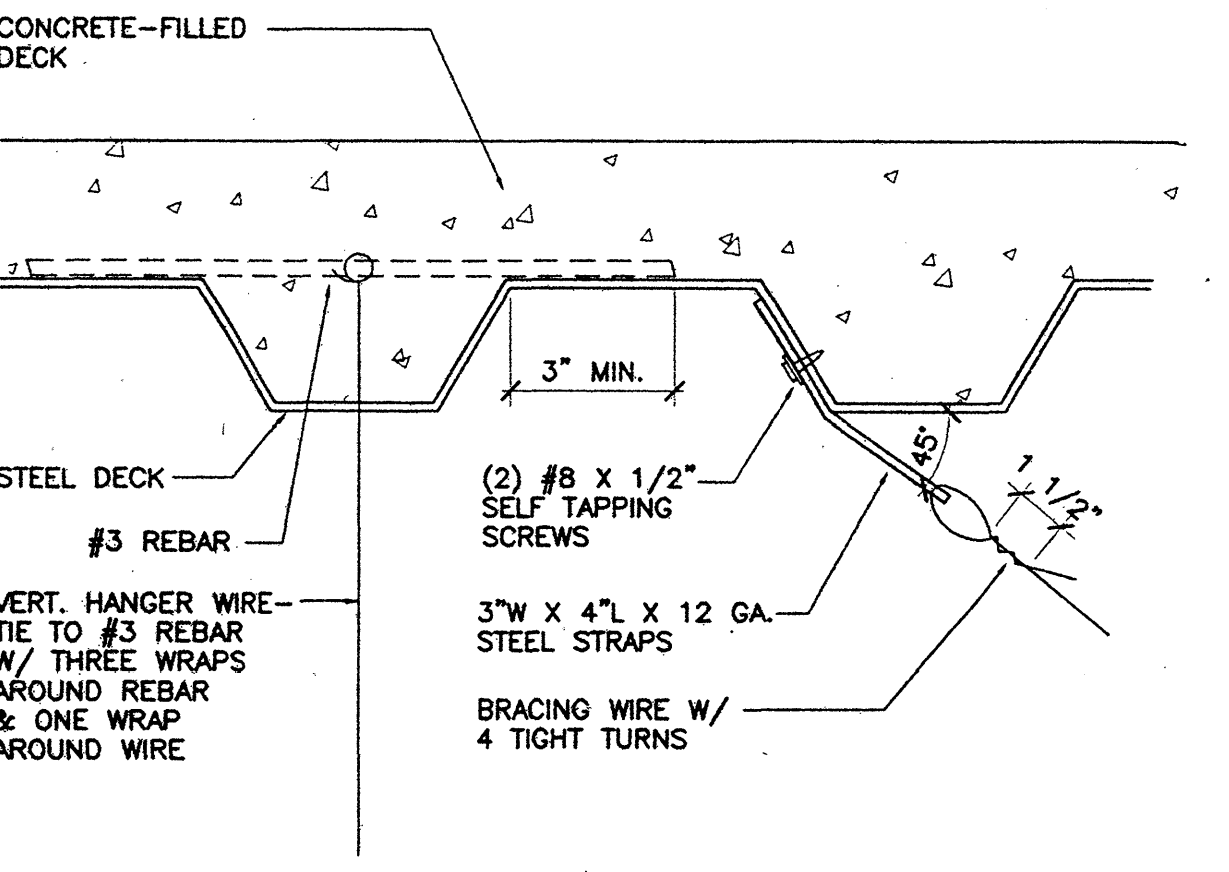
11 Video Projector Mounting Post
SCALE: 1-1/2"=1'-0"



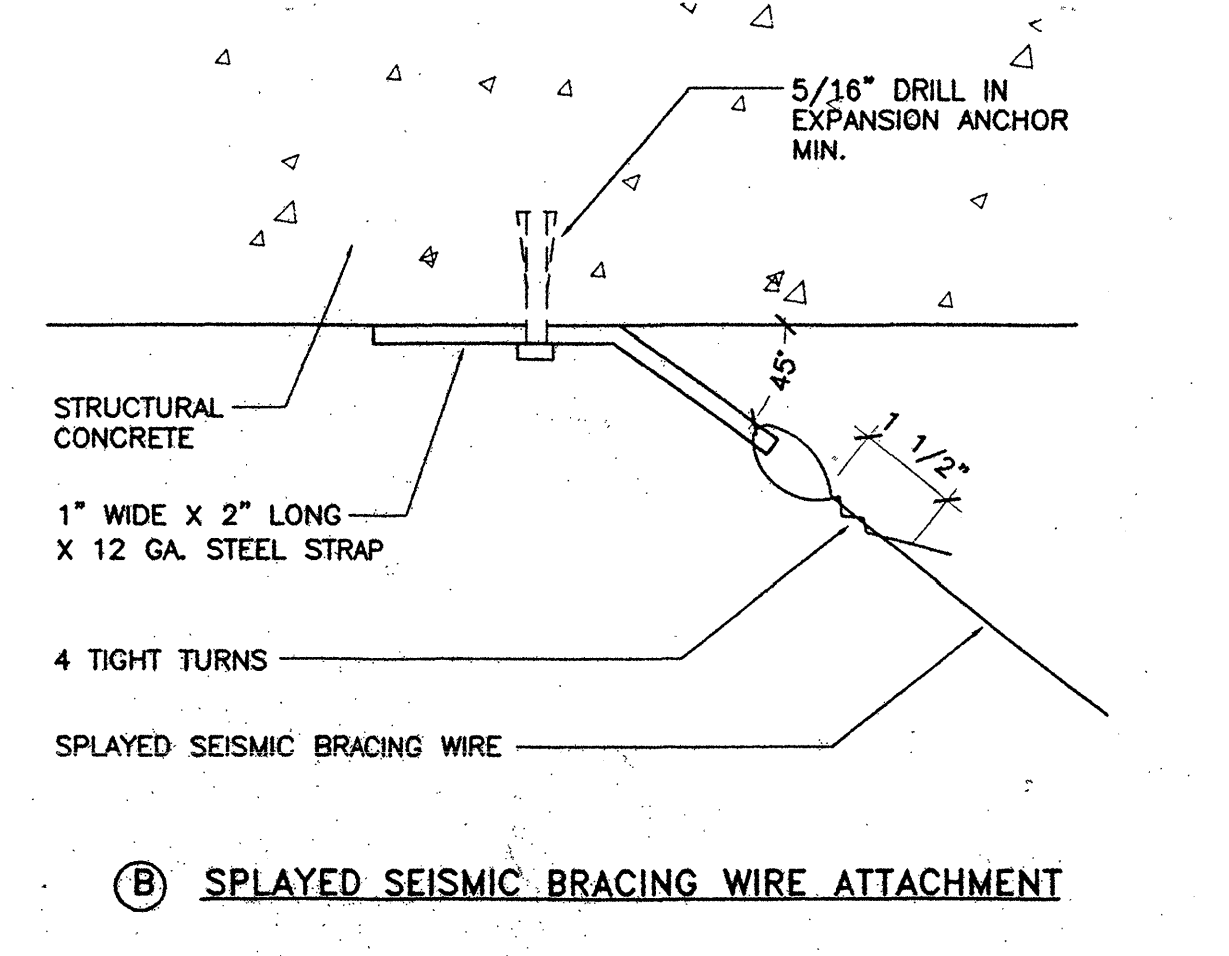
12 Section at Plaster Ceiling - 3rd Floor Balcony
SCALE: 1/4"=1'-0"



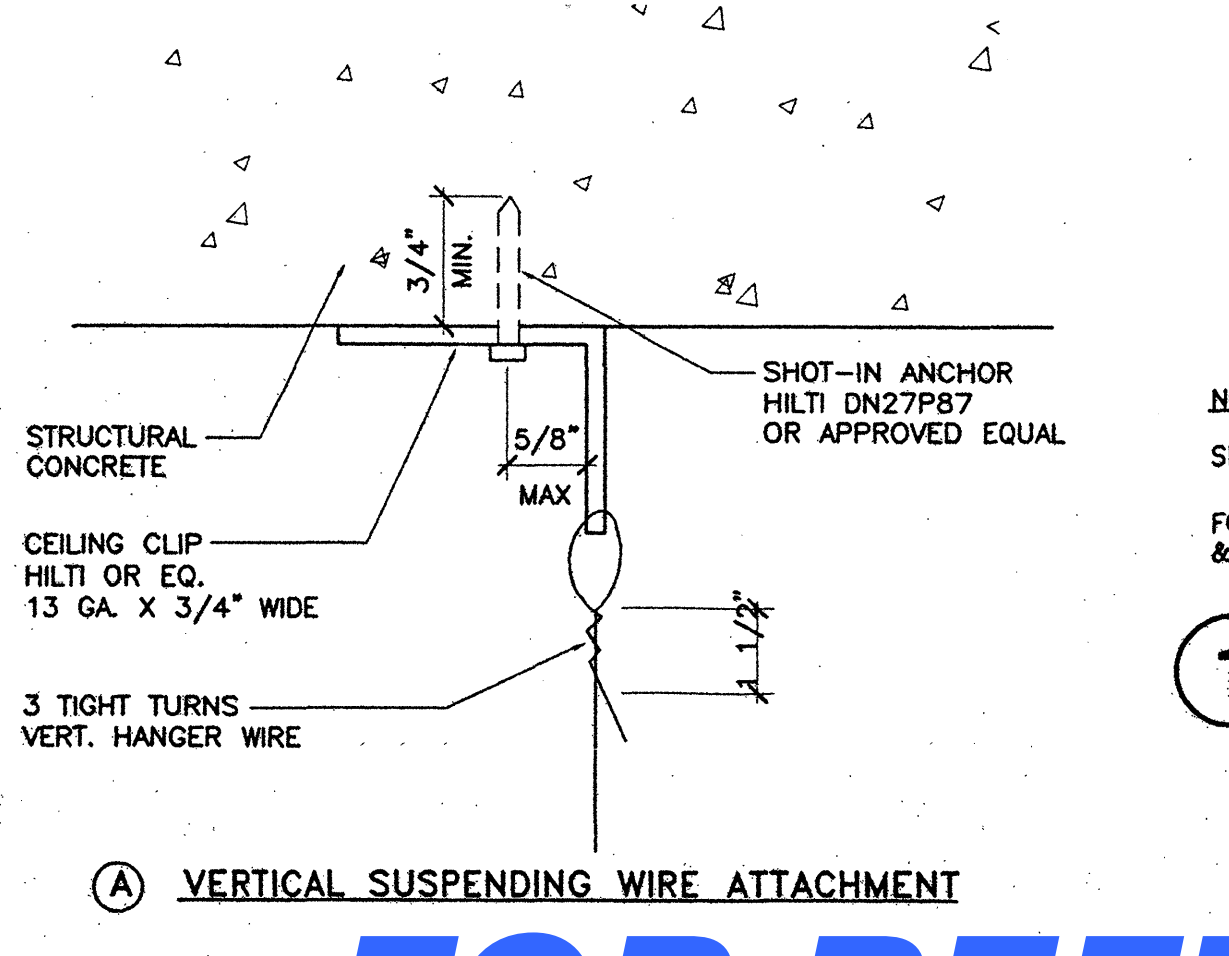
9 Suspended Plaster Ceiling
SCALE: NONE



4 Wire Attachments at Deck
SCALE: -



5 Hanger Wire Bracket Connection
SCALE: NO SCALE



1 Suspended Ceiling System
SCALE: NO SCALE

SUSPENDED ACOUSTICAL CEILING NOTES

The following notes are acceptable for ceiling systems whose total weight including air conditioning grilles and light fixtures does not exceed four (4) psf. Heavier systems and those supporting lateral loads from partitions will require other special design details:

- 12 ga. (min.) hanger wires may be used for up to and including 4'-0" x 4'-0" grid spacing along main runners.
- Provide 12 gage hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, whichever is greater, at all corners of the ceiling area. End connections for runners which are designed and detailed to resist the applied horizontal forces may be used in lieu of the 12 gage hanger wires subject to D.S.A. review and approval.
- Provide trapeze or other supplementary support members at obstructions to main hanger wiring. Provide additional hangers, struts or braces as needed to support ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.
- Ceiling grid members may be attached to not more than 2 adjacent walls. Ceiling grid members should be at least 1/2 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 1/2 inch clear of wall.
- 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 16 gage 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" or less, this interlock is not required.
- Provide sets of four 12 gage splayed bracing wires oriented 90 degrees from each other at the following spacing:
 - For school buildings, place sets of bracing wires at a spacing not more than 12 feet by 12 feet on center.
 - Provide bracing wires at locations not more than 1/2 the spacings given in (A) and (B) above from each perimeter wall and at the edge of vertical ceiling offsets for both school and hospital buildings.
 The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to rattle. Splices in bracing wires are not to be permitted without special D.S.A. approval.
- Fasten hanger wires with not less than 3 tight turns. Fasten bracing wires with 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 wire aligns as closely as possible with the direction of the forces acting on the wire. Note: Wire turns made by machine where both strands have been deformed or bent in wrapping con waive the 1-1/2" requirement, but the number of turns should be maintained, and be as tight as possible.
- Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach lightweight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to OSA/SSS or OSHPD.
- When drilled-in concrete anchors or shot-in anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 pounds of tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 pounds in tension. Shot-in anchors in concrete are not permitted for bracing wires. If any shot-in or drilled-in anchor fails, see Chapter 19 Section 2624(d) Title 24. NOTE: Drilled-in or shot-in anchors require special OSA/SSA or OSHPD approval when used in prestressed concrete.
- Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal to the weight of the fixtures.
- Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of a heavy duty grid system but, in addition, they must have a minimum of two 12 gage stock safety wires attached to the fixture at diagonal corners and anchored to the structure above. All 4 ft. x 4 ft. light fixtures must have stock safety wires at each corner. All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than 4 taut 12 gage wires each attached to the fixture and to the structure above regardless of the type of ceiling grid system used.
- The taut 12 gage wires including their attachment to the structure above must be capable of supporting 4 times the weight of the unit.
- Ceiling suspension system is "DONN DX" heavy duty 15/16 in. system with DX 28 main runners and DX 422 cross tees for 4 ft. and DX216 for 2 ft.
- 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 12 gage 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.
- Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture.
- Comply with Office of Regulation Services IR47-4

INSTALL BRACING WIRES @ 12"x12" O.C. MAX.

12GA. BRACING WIRE W/ MIN. (4) TIGHT TURNS IN 1-1/2" BOTH ENDS WIRE

12GA. BRACING WIRE W/ MIN. (4) TIGHT TURNS IN 1-1/2" BOTH ENDS TYP.

NOTE: SEE DETAILS 4 AB.0 5A AB.0 5B AB.0 FOR CONNECTIONS OF BRACING & HANGER WIRES TO STRUCT. ABOVE

1 Suspended Ceiling System
SCALE: NO SCALE

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARELLANO SANTA BARBARA, CA 93101
805/963.1726

FRANK LA BARGE, A.I.A.
PRINCIPAL IN CHARGE

RICHARD KRISTIAN and JIM TREMAINE, A.I.A.
PROJECT ARCHITECTS

LONG BEACH CITY COLLEGE (LIBERAL ARTS CAMPUS)

MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D' (HEALTH/SAFETY CODE CORRECTIONS)

FOR

LONG BEACH COMMUNITY COLLEGE DISTRICT

4901 EAST CARSON STREET
LONG BEACH, CA 90808

BID PACKAGE C

AS-BUILT

NO.	DESCRIPTION	DATE	BY

REVISION

DRAWN: L.L.
CHECKED: J.T.
DATE: 12/10/97
JOB NO.: 93-42
SHEET TITLE: SUSPENDED CEILING DETAILS
SHEET:
OF:

A8.0

FOR REFERENCE ONLY